Multi-hazard Loss Estimation Methodology

Hurricane Model

HAZUS®*MH* MR3

User Manual

Developed by:

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Federal Emergency Management Agency
Mitigation Division
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FOREWORD

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MESSAGE TO USERS

The HAZUS Hurricane Model is designed to produce loss estimates for use by federal, state, regional and local governments in planning for hurricane risk mitigation, emergency preparedness, response and recovery. The methodology deals with important aspects of the built environment, and a wide range of different types of losses. Extensive national databases are embedded within HAZUS, containing information such as demographic aspects of the population in a study region, square footage for different occupancies of buildings, and numbers and locations of bridges. Embedded parameters have been included as needed. Using this information, users can carry out general loss estimates for a region. The HAZUS methodology and software are flexible enough so that locally developed inventories and other data that more accurately reflect the local environment can be substituted, resulting in increased accuracy.

Uncertainties are inherent in any loss estimation methodology. They arise in part from incomplete scientific knowledge concerning hurricanes and their effects upon buildings and facilities. They also result from the approximations and simplifications that are necessary for comprehensive analyses. Incomplete or inaccurate inventories of the built environment, demographics and economic parameters add to the uncertainty. Where inventories, demographics and economic parameters track closely those assumed and built into the basic methodology, estimates of loss should be within a factor of two. Where one or more of these parameters are incomplete or inaccurate the range of uncertainty may exceed a factor of two or more.

The hurricane loss estimation methodology is based on sound scientific and engineering principals and experimental and experience data. The methodology has been tested against the judgment of experts and, to the extent possible, against records from several past hurricanes. However, limited and incomplete data about actual hurricane damage precludes complete calibration of the methodology. Nevertheless, when used with embedded inventories and parameters, the HAZUS Hurricane Model has provided a credible estimate of such aggregated losses as the total cost of damage.

Users should be aware of the following specific limitations:

- While the HAZUS Hurricane Model can be used to estimate losses for an individual building, the results must be considered as average for a group of similar buildings. It is frequently noted that nominally similar buildings have experienced vastly different damage and losses during a hurricane.

- The Hurricane model contains definitions and assumptions regarding building strengths that represent a norm for construction in hurricane zones. These norms are defined in the technical manual. Where construction quality is known to be different from the defined norms, larger uncertainties in loss projections may be realized.

HAZUS should still be regarded as a work in progress. Additional damage and loss data from actual hurricanes and further experience in using the software will contribute to

improvements in future releases. To assist us in further improving HAZUS, users are invited to submit comments on methodological and software issues by letter, fax or e-mail to:

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LIMITATIONS OF THE HAZUS-MH MR3 SOFTWARE

Installation

- HAZUS-MH MR3 is certified to run on ArcGIS 9.2 SP2. Tests have shown that HAZUS-MH MR3 is unable to fully function on the ArcGIS 9.2 platform only. SP1 is required, but SP2 is preferable. ArcGIS 9.2 SP2 is available from the ESRI website.
- HAZUS-MH MR3 is certified to run on MS Windows 2000 SP2, SP3 and SP 4 and Windows XP SP1 and SP2. A user is allowed to install HAZUS-MH MR2 on MS Windows 2000 and XP for Service Packs higher than SP4 and SP2 respectively, but HAZUS-MH MR2 is not certified to work flawlessly with those service packs.
- HAZUS-MH MR3 must be uninstalled only with the Windows Add/Remove Programs utility. For details on uninstalling, please consult the User Manuals.
- Users who plan to operate HAZUS-MH MR3 in a network environment will be able to perform HAZUS operations, such as importing, but not study region creation.

Study Region Size

- The database management system of HAZUS-MH MR3 is SQL 2005 Express. This system has a size limit of 4 GB per database, which limits the size of the regions to about 3,000 census tracts, equivalent to an area with a population of about 9 million. For a multi-hazard study region that includes data for all three hazards, the 4 GB limit will permit an even smaller study region. To work around this, the full version of Microsoft SQL Server 2005 Workgroup Standard Edition must be used (see Appendix F in the Hurricane User Manual).
- Multihazard loss analysis capability is limited to the 23 states that experience hurricane, flood and earthquake hazards and requires that the user first run annualized losses for each of the three hazards.
- To maximize the size of a study region that may be analyzed, set the virtual memory size from a minimum of *2048 MB* to a maximum of *4096 MB*. For the earthquake model, the virtual memory size may be increased from a minimum of *1024 MB* to a maximum of *2048 MB* for optimal operation. Here are the steps for setting the virtual memory size:
    1. Click on Start | Settings | Control Panel | System |
    2. Click on the Advanced Tab
    3. Click on the Performance Options button
    4. Click the Change button under Virtual Memory
    5. Replace the initial and maximum values
    6. Click Apply
- The HAZUS-MH MR3 installation allows the user to specify the folder where the state data will be copied through the "Choose Data Path" dialog in the installation

wizard. If, at the time of installation, the user specifies the folder where the data will be copied after installation, they only need to perform Step 1 as described below. If at the time of installation the User does not specify the folder where the state data will be copied by the user after installation, or if they want to change the folder specified during installation, then Steps 2 through 4 for updating the Registry should be completed.

NOTE: The "Choose Data Path" dialog in the installation process only specifies the folder where the state data will be copied by the user from the DVD after installation has completed. This dialog doesn't copy the data from the DVD to the specified folder; that has to be done manually by the user after installation.

1. Copy one or more of the state data folders (e.g., NC1), both the DVD identification files (e.g., D1.txt ^ 4.txt) and "syBoundary.mdb" from the Data DVD to a folder on your hard drive (e.g., D:\HAZUSData\). As an example, the following graphic illustrates how the data for the state of South Carolina would be organized under the HAZUS Data folder.

2. Next, point the program to the data folder on your local hard drive. To do this, click the "Start" button and select "Run" to open the Run window, type "regedit" in the Run window edit box and click the "OK" button to open the Registry Editor. Navigate through the folders listed in the Registry Editor to the following location:

HKEY_LOCAL MACHINE | SOFTWARE | FEMA | HAZUS-MH | General

3. Now look at the right side of the window and find the entry called "DataPath1". Double click on "DataPath1" to open the Edit String window and enter the full name of the folder on the hard drive that contains the data copied from the DVDs in the edit box. Click the OK button to update the DataPath1 value.

IMPORTANT: Make sure the path ends with a "\" and do not change any of the other registry settings.

4. Close the Registry Editor by choosing Exit from the File menu of the Registry Editor.

Capabilities

- Transferring data, including importing study regions, from HAZUS99, HAZUS99-SR1, HAZUS99-SR2, HAZUS-MH and HAZUS-MH MR1 to HAZUS-MH MR3 will require the assistance of technical support.
- Inventory data and subsequently the Level 1 analysis functionality are unavailable for the US held territories.
- Components of independently developed data sets in the default inventory data might not line up on maps, for example, the placement of bridges and roads, and facilities. This situation can be addressed by updating the default inventory data with user supplied data.
- The Hurricane Model can be run for 22 states on the Gulf and Atlantic coasts and for the state of Hawaii. Default tree inventory data is not available for Hawaii.

- Loss estimates for large study regions of 2,000 census tracts or blocks might require 4 hours analysis time.

Technical Support

- Technical support is available via telephone, e-mail, or FAX. The numbers and addresses are listed on the HAZUS software package and under the Help menu in the software. Information on HAZUS updates, software patches, and FAQs are available at www.fema.gov/hazus/.

WHAT'S NEW IN HAZUS-MH MR1 – HURRICANE MODEL

Data

- Updated valuations for the general building stock.

Methodology

- Capability to assess hurricane mitigation options for multi-unit buildings and manufactured housing.
- Capability to define hurricanes with NWS forecasts/advisories downloaded directly from the Internet.

Other Features

- Operation on the new ArcGIS 9.0 SP1 platform.
- Capability to utilize third-party tools.
- Optimized software for rapid loss assessment.

WHAT'S NEW IN HAZUS-MH MR 2 – HURRICANE MODEL

Data

- 2005 valuation data for all occupancy classes.
- Means location factors for residential and non-residential occupancies on a county basis.
- Updated and validated valuation data for single-family residential housing and manufactured housing based on comparisons with other national databases.
- Zeros substituted for any negative values calculated for the daytime, nighttime, working commercial, working industrial and commuting populations.
- Construction age and values by decade for every census block with floor area (square footage).

Methodology

- Availability of mitigation analysis options for all building classes and capability to specify the percentages of each building class that have one or more mitigation features.
- Capability to estimate tree debris weight or volume that is likely to be collected and discarded at public expense.
- Capability through an "Automatic Outputs" tool in the analysis options window to specify a standard set of summary reports and map layers that will be generated after each analysis and automatically exported to the study region folder.
- Capability to generate a range, representing the 5th and 95th percentiles, of potential damage and loss estimates for a given hurricane forecast, based on track and intensity errors in forecast advisories issued during the past 12 years, and to include the results in a new rapid loss summary report.
- Minor adjustments to the Hurricane Model Summary Reports to improve consistency among the three models.

Other Features

- Keyboard operation of all user interface operations with some exceptions.
- Operation on the ArcView 9.1 SP1 platform.
- Certified on Windows XP SP2.
- Operation on the MDAC 2.8 data access engine from Microsoft.

WHAT'S NEW IN HAZUS-MH MR 3 – HURRICANE MODEL

Data

- Commercial data updated to Dun & Bradstreet 2006.
- Building valuations updated to R.S. Means 2006.
- Building counts based on census housing unit counts for RES1 (single-family dwellings) and RES2 (manufactured housing) instead of calculated building counts.

Methodology

- Storms for 2004 and 2005 added to the historic storms database and updates made for several existing historic storms.
- Use of NOAA hurricane advisory data to model storms restored with an adjustment feature for calculating building damage and loss.
- New probabilistic storm set reflecting updates to the Holland pressure profile model and filling model.
- Updated wind field model for user-defined storms.
- New vulnerability functions to permit calculation of additional losses to manufactured housing due to tree blowdown.

Other Features

- Operation on the ArcView 9.2 SP2 platform.
- Operation on Microsoft SQL 2005 Express.
- Operation on the MDAC 2.8 SP1 data access engine from Microsoft.
- Operation on FarPoint Spread 7 – Spreadsheet
- Operation on Crystal Reports 11.
- Enhancements to the existing aggregation routines to reflect improved procedures for processing study region information.

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Chapter 1. Introduction

1.1 Background

In 1997, the National Institute of Building Sciences (NIBS), under a cooperative agreement with the Federal Emergency Management Agency (FEMA), released the first HAZUS Earthquake Model, a national, standardized GIS-based tool for estimating potential losses from earthquake. Earthquake loss estimates calculated with HAZUS are used by local, state, and regional officials for planning and stimulating mitigation efforts to reduce losses from earthquakes, and preparing for emergency response and recovery following earthquakes. HAZUS has also been used to perform a nationwide assessment of earthquake risk.

HAZUS has now been expanded to perform similar loss evaluations for wind and flood. FEMA and NIBS initiated development of the wind and flood models in 1997 with the creation of two committees to oversee technical development of the models. The resulting HAZUS software, shown in Figure 1.1, is an integrated, multi-hazard loss estimation program, packaged to run within ArcView®, a full-featured GIS platform.

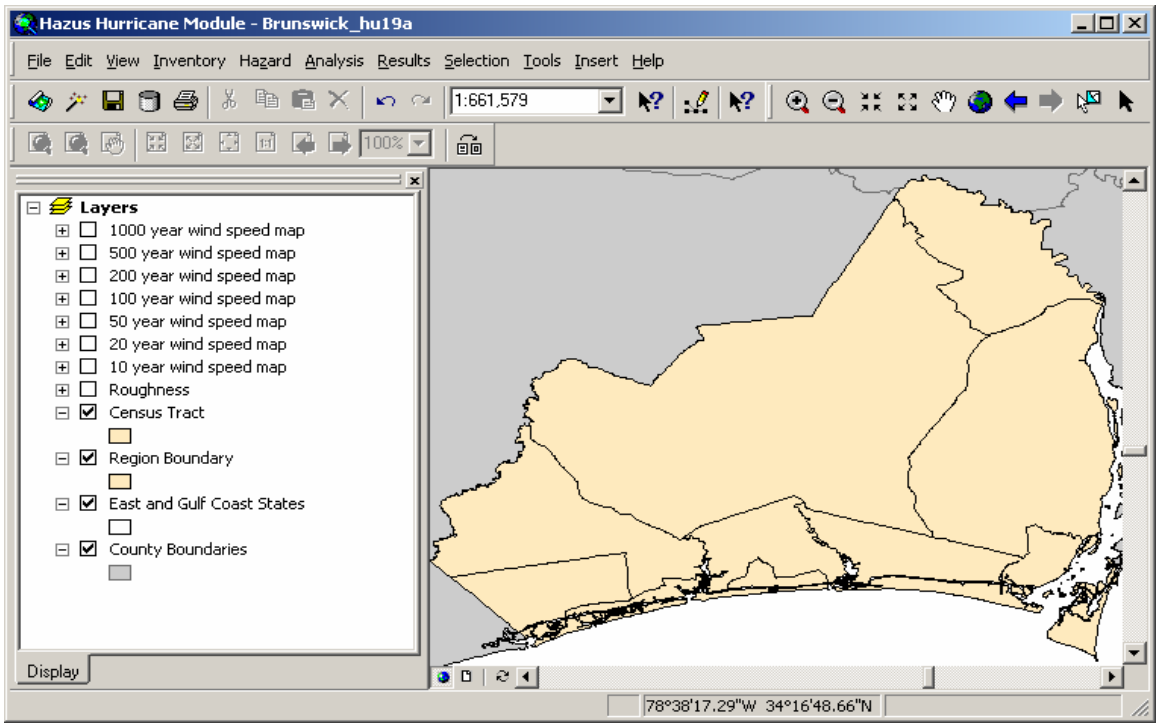


Figure 1.1. Hurricane Model Map Document Window.

The Hurricane Model allows practitioners to estimate of the economic and social losses from hurricane winds. The information provided by the model will assist state and local officials in evaluating, planning for, and mitigating the effects of hurricane winds. The Hurricane Model provides practitioners and policy makers with a tool to help reduce wind damage, reduce disaster payments, and make wise use of the nation's emergency management resources.

The Hurricane Model is the first component of a planned HAZUS Wind Model. When fully implemented, the Wind Model will address the wind hazard and effects associated with hurricanes, tornadoes, thunderstorms, extratropical storms, and hail. The need for HAZUS to treat the different meteorological phenomena is indicated in Figure 1.2, where it is seen that different regions of the United States are affected by different types of windstorms. In many regions of the country, damaging winds are produced by more than one meteorological phenomenon.

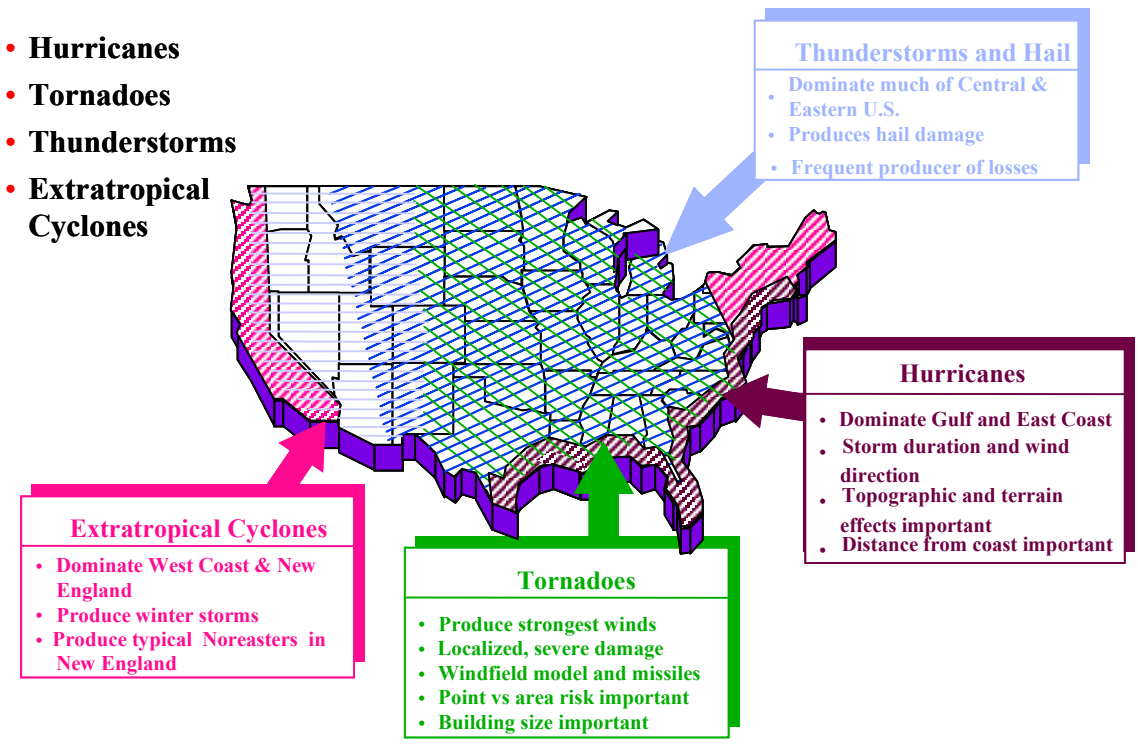


Figure 1.2. Meteorological Events Contributing to the Wind Hazard in Different Regions of the Continental United States.

1.2 Scope

The geographic scope of the present Hurricane Model is limited to the Atlantic and Gulf coasts of the United States and Hawaii. The capabilities of the model are summarized in Table 1.1. The Hurricane Model includes a default terrain roughness based on digitized

Table 1.1. Summary of Hurricane Model Capabilities

Parameter/ Data	Level 1 (Default Data)	Level 2 (User-Supplied Data)	Level 3 (Advanced Data)
Wind Model	Default Probabilistic or Historic	User-Defined Scenario	
Building Inventory	Default	User-Supplied	
Facilities and Building Classes	Residential Commercial Industrial Essential Facilities		
Utility, Transportation, and High Potential Loss Facilities	Display Locations Only – No Damage or Loss Estimates		
Terrain	Default		Expert-Supplied
Loss Functions	Default		
Damage Functions	Default		
Shelter Requirements	Default	User-Supplied Parameters	
Debris	Default	User-Supplied Tree Coverage Parameters	

Land Use and Land Cover (LULC) data, but topographic speedups are only modeled in Hawaii. Damage, direct economic losses, and building debris are modeled for the General Building Stock (i.e., residential, commercial, industrial, agricultural, educational, and government building occupancies). Short-term public shelter requirements for displaced households and loss of function for essential facilities are also included in the model.

1.3 Overview of the Methodology

The approach and framework of the HAZUS Wind Model are outlined in Figure 1.3, with the elements of the present Hurricane Model indicated in bold. The approach is based on a hazard-load-resistance-damage-loss methodology developed from an individual risk framework. The basic model components (hazard model, load model, resistance models, etc.) are developed separately. Each model component is, wherever possible, separately validated using full-scale data, model scale data, or experimental data. A first principles based hazard-load-resistance-loss model is used, providing the capability to model the effects of building code changes and mitigation strategies on reduction in damage and loss. Furthermore, since economic damage (loss) is modeled separately from physical damage to a building, estimates of both building damage and loss are separately modeled and predicted.

The performance of a building class under wind loading events is formulated probabilistically using the concepts of structural reliability. The probability of an individual failure mode, such as a window or door failure, is the probability that the wind load effect (e.g., aerodynamic pressure or impact energy) is greater than the resistance of the element. By performing many simulations on representative buildings within many classes of building construction, the damage probabilities for the key building components are estimated and the relationships between physical damage and wind

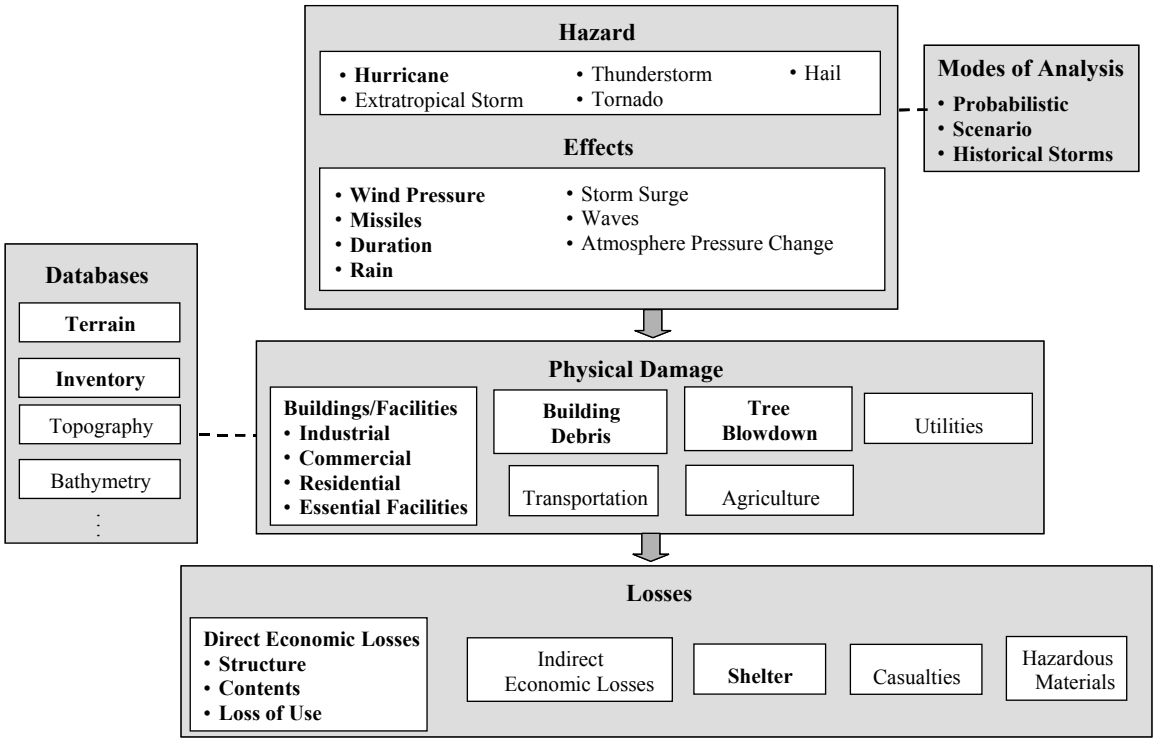


Figure 1.3. HAZUS Wind Model Framework – Elements Shown in Bold are Implemented in the Current Version of the Hurricane Model.

hazard are developed. Similarly, losses are estimated using repair and restoration models for physical damage states. These concepts have been used to generate the fast-running damage and loss functions required in the HAZUS software tool.

Several steps are typically performed in assessing and mitigating the impacts of a natural hazard such as a hurricane. The methodology encompasses inventory collection, hazard identification, and impact assessment. In a simplified form, the steps are:

- Select the area to be studied. This may be a city, a county or a group of municipalities. It is generally desirable to select an area that is under the jurisdiction of an existing regional planning group.
- Specify the hazard. In the Hurricane Model the hazard can be specified as either a single user-defined storm scenario or as a complete probabilistic analysis.
- Provide additional information describing the building inventory, essential facilities, tree coverage, and surface roughness, if available.
- Using formulas embedded in HAZUS, damage probabilities, expected building losses, expected contents losses, and expected loss-of-use are computed for different classes of buildings.
- The above results are used to compute estimates of direct economic loss and short-term shelter needs.

- Using formulas embedded in HAZUS, the expected amounts and types of debris are estimated.

The user plays a major role in selecting the scope and nature of the output of a loss estimation study. A variety of maps can be generated for visualizing the extent of the losses. Numerical results may be examined at the level of the census tract or may be aggregated by county or region.

1.4 Hurricane Hazards Considered in the Methodology

The hurricane-related hazards or effects considered in the model include wind pressure, wind borne debris missiles, tree blow down, and rainfall. The effects of storm duration are also included in the model by accumulating damage over the life of each storm. Note that storm surge and waves have not been implemented in the present version of the Hurricane Model.

Tree coverage and terrain (i.e., surface roughness) can have significant effects on the damage and loss estimates produces by the Hurricane Model. You may select the default tree coverage and terrain data or supply your own data. If you are considering supplying your own terrain data, we strongly recommend that you consult with a wind engineering expert.

Planning for mitigation and disaster response generally is based on large, damaging events, but the probability that such events will occur also should be considered. Probabilistic hurricane analyses inherently account for the full spectrum of probable events, producing both annualized and return period loss estimates. When working with deterministic hurricane scenarios, we recommend that you consult with hurricane experts to develop a *maximum credible hurricane* scenario that is realistic for your area. Consideration should be given to repeating loss calculations for several scenario hurricanes with different magnitudes and locations and different probabilities of occurrence, since these factors are a major source of uncertainty.

1.5 Types of Buildings and Facilities Considered in the Hurricane Model

The buildings and facilities analyzed by the Hurricane Model are as follows:

- *General Building Stoc*k: The majority of commercial, industrial and residential buildings in your region are not considered individually when calculating losses. Instead, they are grouped together into 39 specific building types and 33 occupancy classes. Degrees of damage and loss are computed for each group. Examples of specific building types include one-story wood frame single-family housing (WSF1), two-story masonry multi-unit housing (MMUH2), and high-rise steel-framed commercial engineered buildings (SECBH). Each model building type is further defined by a distribution of wind building characteristics, such as: roof shape, roof covering, and opening protection. Examples of occupancy classes are single-family dwelling, retail trade, heavy industry, and churches. All structures that are evaluated in this manner are referred to as General Building Stock.

- *Essential Facilitie*s: Essential facilities, including medical care facilities, emergency response facilities and schools, are those vital to emergency response and recovery following a disaster. School buildings are included in this category because of the key role they often play in housing people displaced from damaged homes. Generally there are very few of each type of essential facility in a census tract, making it easier to obtain site-specific information for each facility. Thus, damage and loss-of-function are evaluated on a building-by-building basis for this class of structures, even though the uncertainty in each such estimate is large.
- *User-Defined Facilitie*s: User-defined facilities are buildings at specific locations that you add to the inventory. Generally there are very few user-defined facilities in a census tract, making it easier to obtain specific information for each facility. Damage is evaluated on a building-by-building basis for this class of structures, even though the uncertainty in each such estimate is large.

Lifeline systems are modeled in the Earthquake and Flood Models, but are only available for browsing and mapping in the present version of the Hurricane Model. Lifeline systems are classified as follows:

- *Transportation lifeline system*s: Transportation lifelines, including highways, railways, light rail, bus systems, ports, ferry systems and airports, are broken into components such as bridges, stretches of roadway or track, terminals, and port warehouses.
- *Utility lifeline system*s: Utility lifelines, including potable water, electric power, waste water, communications, and liquid fuels (oil and gas), are treated in a manner similar to transportation lifelines. Examples of components are electrical substations, water treatment plants, tank farms and pumping stations.

In any region or community there will be certain types of structures or facilities for which supplemental studies specific to these facilities are required. These omitted structures are referred to as *High Potential Loss Facilitie*s. Such facilities include dams, nuclear power plants, liquefied natural gas facilities, military installations, and large one-of-a-kind residential or commercial structures. Given the nature of these facilities it would be potentially misleading and politically and legally unwise to estimate damage and losses unless a detailed engineering analysis was performed with the agreement of the owner of the facility. Hence, the approach is to call attention to these facilities by including their locations in the inventory.

1.6 Levels of Analysis

To provide flexibility, the losses are estimated at three levels. For each level, the several hazards and the various types of buildings and facilities can be selectively used as appropriate, to meet the needs and desires of the local or regional user.

1.6.1 Analysis Based on Default Information

The basic level of analysis uses the default general building stock and essential facility databases built into the model. These databases are derived from national-level data

sources for building square footage, building value, population characteristics, costs of building repair, and economic data. Default database of surface roughness and tree coverage derived from national land-use data are also used for the study region. Direct economic and social losses associated with the general building stock are computed, as well as estimates of essential facility functionality, short-term shelter requirement, and debris. Because the analysis involves only default data sources, the uncertainties are large.

Other than defining the study region, specifying the hazard (probabilistic or scenario), and making decisions concerning the extent and format of the output, an analysis based on default data requires minimal effort from the user. As indicated, however, since default rather than actual data are used to represent local conditions, the uncertainties in the estimated levels of damage and losses are large. This level of analysis is suitable primarily for preliminary evaluations and crude comparisons among different regions.

1.6.2 Analysis with User-Supplied Inventory

Results from an analysis using only default inventory can be improved greatly with a minimum amount of locally developed input. This is generally the intended level of implementation. Such an effort might involve:

- Use of locally available data or estimates concerning the square footage, count, and replacement values of buildings in different occupancy classes.
- Use of local expertise to modify the databases concerning percentages of model building types associated with different occupancy classes.
- Use of local expertise to modify the databases concerning percentages of wind building characteristics associated with different model building types.
- Preparation of a detailed inventory for all essential facilities.
- Development of maps of tree coverage. These maps would be used for evaluation of the effects of these local conditions upon damage and losses.
- Use of locally available data concerning direct economic analysis parameters.

Depending upon the size of the region and the number of these features selected by the user, months may be required to assemble the required input. The effort put into preparing the inventory of the building stock can range from minimal to extensive, depending upon the desire to reduce uncertainty in computed results.

1.6.3 Analysis with Advanced Data

Local terrain (i.e., surface roughness) has a significant effect on the magnitude of the actual surface level wind speeds applied to buildings. Surface roughness lengths depend on vegetation height and density, building heights and densities, and other obstructions upwind from the point of interest. The default surface roughness lengths provided with the Hurricane Model are derived from state and national land-use databases and have been validated through extensive comparisons with aerial photography. However, land-use conditions change over time and locations with the same land-use category may, in

fact, have substantially different surface roughness. If you are considering supplying your own terrain data, we strongly recommend that you consult with a wind engineering expert. It is important to recognize that the surface roughness in Hurricane Model are averaged over each census tract and are assumed to be independent of wind direction.

1.7 Assumed Level of Expertise of Users

Users can be broken into two groups: those who are performing the study, and those who are using the results of the study. For some studies these two groups will consist of the same people, but generally this will not be the case. However, the more interaction that occurs between these two groups, the better the study will be. Those who are performing the study must, at minimum, have a basic understanding of hurricanes and their consequences. In many cases, the results will be presented to audiences (i.e., city councils and other governing bodies) that have little technical knowledge of the hurricane loss problem.

It is assumed that a loss study will be performed by a team consisting of severe storm experts, structural engineers or architects, economists, sociologists, emergency planners and a representative from the group who will be reviewing/using the loss estimates. These individuals are needed to develop hurricane scenarios, develop and classify building inventories, provide and interpret economic data, provide information about the local population, and provide input as to what types of loss estimates are needed to fulfill the goals of the loss study. Because hurricanes frequently also produce coastal and/or inland flooding, the team should also include representatives from the flood modeling and analysis community.

It should be noted that the involvement of the ultimate user of the study on the team is very important. End users of the loss estimation study (i.e., decision makers) need to be involved from the beginning to make results more usable.

If a municipality, local agency or state agency is performing the study, it is possible that some of the expertise can be found in-house. For example, the building department may have engineers who know about local building codes and construction practices. The state climatologist is another useful source of expertise.

Although a loss study can be performed with a minimum of expertise using only the defaults provided by the computer program, the results of such a study should be interpreted with caution, as default values have a great deal of uncertainty associated with them. If the loss estimation team does not include individuals with expertise in the areas described above, then it is likely that one or more outside consultants may be required.

Unless scenarios have already been developed and documented for the study region, the user may require the expertise of a meteorologist or wind engineer when defining deterministic scenarios. Even if a scenario event has been documented, it may be defined using storm parameters that are different than those used in HAZUS. In this case, an expert will be needed to review the scenario and describe it in one of the formats supported by the Hurricane Model. A scenario event that is defined without an in-depth

understanding of hurricanes affecting the region, may not be appropriate for the loss study.

If the user intends to modify the defaults data or parameters, it is likely that he will need input from someone with expertise in the field. For example, if the user wishes to change default percentages of model building types for the region, he will need the input of a structural engineer who has knowledge of design and construction practices of the region. Modifications to defaults in the economic loss models will require input from an economist.

Technical help for the users of HAZUS has been established by NIBS via telephone, fax or e-mail support. Users should contact FEMA or NIBS for information on technical support.

1.8 Displaying Results

Table 1.2 summarizes the output that can be obtained from an analysis. There is a great deal of flexibility in displaying output. Tables of social and economic losses can be displayed on the screen, printed out or pasted into electronic documents. Most outputs can also be mapped. Colors, legends and titles can be altered easily. Details are provided in Chapter 10.

1.9 Uncertainties in Loss Estimates

Although the software offers users the opportunity to prepare comprehensive loss estimates, it should be recognized that, even with state-of-the-art techniques, uncertainties are inherent in any such estimation methodology. The next major hurricane to affect your area will likely be quite different than any "scenario hurricane" anticipated as part of a hurricane loss estimation study. Hence, the results of a scenario analysis should not be looked upon as a *prediction* but rather as an indication of what the future may hold. Probabilistic analyses can be used to develop estimates of long-term average losses (“annualized losses”) as well as the expected distribution of losses (“return period losses”). These estimates reflect the full spectrum of hurricane tracks and intensities that are likely to occur in your region of interest. However, due to the limited history of hurricane observations, limited knowledge of actual building characteristics, modeling simplifications, and other factors, there are also significant uncertainties inherent in the results produced by a probabilistic analysis. To overcome these limitations, ranges of losses should be evaluated by conducting multiple analyses and varying certain input parameters to which the losses are most sensitive.

1.10 Applying Methodology Products

The products of the FEMA methodology for estimating hurricane losses have several pre-event and/or post-event applications in addition to estimating the scale and extent of damage and disruption.

Table 1.2. Hurricane Loss Estimation Methodology Outputs

Maps of wind hazards ▪ Peak gust (3-second) wind speed for each census tract ▪ Maximum sustained (1-minute) wind speed for each census tract **General building stock** ▪ Damage probabilities by occupancy ▪ Damage probabilities by building type ▪ Cost of building repair or replacement ▪ Loss of contents ▪ Business inventory loss ▪ Loss of rental income ▪ Relocation costs ▪ Business income loss ▪ Employee wage loss **Essential facilities** ▪ Damage probabilities ▪ Probability of functionality ▪ Loss of beds in hospitals	**Debris** ▪ Building debris generated by weight and type of material ▪ Tree debris generated by weight or volume **Social losses** ▪ Number of displaced households ▪ Number of people requiring temporary shelter **High potential loss (HPL) facilities** ▪ Locations of dams ▪ Locations of nuclear plants ▪ Locations of military facilities ▪ Locations of other identified HPLs **Transportation and utility lifelines** ▪ Locations of transportation facilities ▪ Locations of lifelines **Hazardous material sites** ▪ Location of facilities which contain hazardous materials

Examples of pre-event applications of the outputs are as follows:

- *Development of mitigation strategies* that outline polices and programs for reducing hurricane losses and disruptions indicated in the initial loss estimation study. Strategies can involve upgrading existing buildings (e.g., shutters) and the adoption of new building codes.
- *Anticipation of the nature and scope of response and recovery efforts* including: identifying short-term shelter requirements and debris management requirements.

Post-event applications of the outputs would include:

- *Projection of immediate economic impact assessments for state and federal resource allocation and support* including supporting the declaration of a state and/or federal disaster by calculating direct economic impact on public and private resources, local governments, and the functionality of the area.
- *Activation of immediate emergency recovery efforts* including provision of emergency housing shelters and initiating debris clean-up efforts.

- *Application of long-term reconstruction plans* including the identification of long-term reconstruction goals, the institution of appropriate wide-range economic development plans for the entire area, allocation of permanent housing needs, and the application of land use planning principles and practices.

Once inventory data have been collected and imported, making modifications and running new analyses are simple tasks. The ease with which reports and maps can be generated makes the software a useful tool for a variety of applications.

1.11 Organization of the Manual

The *User's Manual* provides the background and instructions for developing an inventory to complete a hurricane loss estimation study using HAZUS. It also provides information on how to install and run the software, and how to interpret and report model output. The *Technical Manual*, a companion publication, documents the methods of calculating losses and the default data. Taken together, the two manuals provide a comprehensive overview of the nationally applicable loss estimation methodology.

The contents and organization of the *User's Manual* are summarized below:

Chapter 1 provides the user with a general understanding of the purpose, uses and components of a regional hurricane loss estimation study.

Chapter 2 gives instructions for installing and starting HAZUS.

Chapter 3 runs through an analysis using only default data.

Chapter 4 provides an overview of the types of data required to run the loss study, as well as a description of the default database.

Chapter 5 contains information about what data are needed to complete a loss study, sources of inventory, how to collect inventory, how to convert data to the correct format for the methodology, and how to enter data into HAZUS.

Chapter 6 includes instructions for entering data and editing existing records.

Chapter 7 provides the user with a discussion of how to display, modify and print databases.

Chapter 8 discusses The Building Data Import Tool (BIT). This utility is designed to help the user analyze and query existing databases to develop general building stock inventory information.

Chapter 9 provides a detailed step-by-step description of how to run an analysis using HAZUS, including analysis with user-supplied data.

Chapter 10 summarizes the results and reports generated by the Hurricane Model.

The appendices contain installation verification tests and detailed information about the structure of the methodology.

Appendix A provides a series of tests to verify that the Hurricane Model has been correctly installed and is executing as intended. If you encounter any problems with the Hurricane Model, we ask that you run through the tests in Appendix A before calling the HAZUS help desk.

Appendix B defines the building characteristics considered in the methodology, and Appendix C provides descriptions of the model building types used in the methodology.

Chapter 2. Installing and Starting HAZUS

2.1 System and Software Requirements

In order for HAZUS to run properly, your system must meet certain minimum requirements. Table 2.1 provides guidance for three software operation levels. System requirements are directly related to the volume of data to be used in the analysis. For example, reasonable processing times can be expected when using the "Recommended" computer system if the software operator is analyzing multiple scenarios for large cities (population > 500,000). The operator is assumed to be working on an Intel PC.

Table 2.1. Hardware and Software Requirements for HAZUS

	Minimal	Moderate	Recommended
Computer Speed Memory	Pentium® III 1 GHz core speed and 512 MB RAM Note: Allows moderately fast analysis of small communities only	Pentium® 4 2 GHz core speed and 512 MB RAM Note: Allows fast analysis of medium-sized communities and real-time analysis for small communities	Pentium® 4 with 800 MHz system bus and 2.6 GHz (or better) core speed and 1 GB RAM Note: Allows fast analysis of large urban areas and real-time analysis for all communities
Computer Storage: Free Hard Disk Space	10 GB Note: Allows installation of HAZUS and storage of three scenarios for a medium-sized community	40 GB Note: Allows installation of HAZUS and storage of three scenarios for large urban areas	80 GB Note: Allows installation of HAZUS and storage of 25 or more scenarios for large urban areas
Hardware Accessories	CD-ROM reader with 32x minimum read speed DVD-ROM reader with 12x minimum read speed Graphics Card with 1024 x 768 minimum resolution Mouse, Keyboard and 19" Monitor		
Supporting Software	Microsoft Windows 2000 Professional SP4 and Microsoft Windows XP SP2 (English Versions) ArcView 9.2 SP2 Spatial Analyst extension required with flood model. ▪ HAZUS-MH installation will allow user to install HAZUS on MS Windows 2000 and XP Service Packs higher than SP4 and SP2 respectively, but HAZUS-MH is not certified to work flawlessly with those service packs.		

ArcGIS can be purchased by contacting ESRI, Incorporated at 1-800-447-9778, or online at http://www.esri.com. ArcGIS and Windows products should be installed using the manufacturer's instructions.

Internet access is highly recommended, although not a system and software requirement. The HAZUS operator may occasionally need to access online Help, and current program status reports.

2.2 Installation

Before installing HAZUS, the minimum requirements listed in Section 2.1 should be met. If you are upgrading from HAZUS-99, please read Section 2.3.

To install HAZUS, follow the steps outlined below.

1. Start Windows and log in with an account with Administrator rights.
2. Insert "HAZUS Setup" DVD in your **DVD-ROM drive**. The setup will launch automatically.
3. If the setup does not launch automatically follow steps (4 and 5).
4. From the Windows **Start** menu select **Run...**. The following screen will appear.

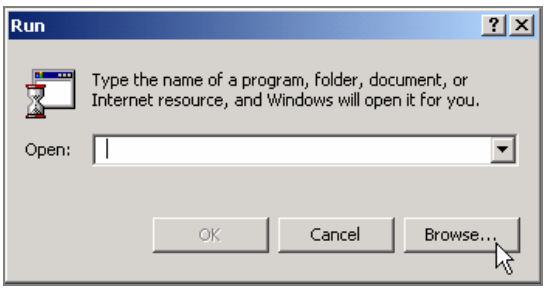


Figure 2.1. Run Command Dialog Box.

5. To start the HAZUS setup program type ***x*:\setup** in the command line box as shown in Figure 2.1, where ***x*** is the DVD-ROM drive letter. Press Enter or click the **OK** key.

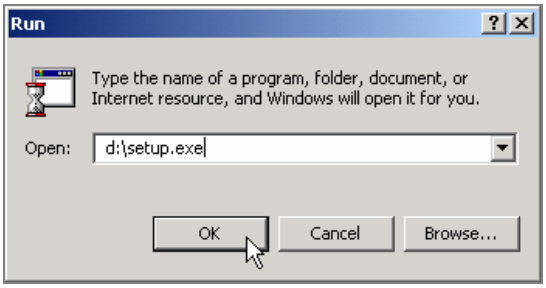


Figure 2.2. Start the HAZUS Setup Program.

6. The setup program will appear. Click on the **Next** button (Figure 2.3).
7. Permit program access to anyone who uses the computer or exclude others from accessing HAZUS program and data. Enter your User Name and Company (or Agency) information. Select the appropriate installation choice for your study project. Then, click on the **Next** button (Figure 2.4).

Figure 2.3. Start of the HAZUS Installation Program.

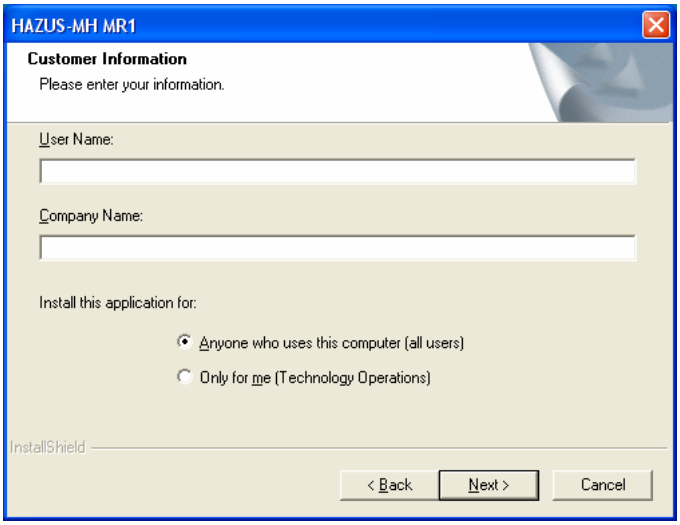


Figure 2.4. Register User Name and Program Permissions.

8. Select the preferred type of installation shown in Figure 2.5 and Figure 2.6. Install the complete set of HAZUS modules (3 hazard modules, BIT, InCAST and FIT tools), the compact set (3 hazards, no tools), or select to customize your installation from one or more hazard and tool modules. Click on the **Next** button.

9. Specify the directory where you wish HAZUS to be installed. The default directory is C:\Program files\HAZUS-MH, as shown in Figure 2.7. If you accept the default destination directory, click on the **Next** button.

   Otherwise click on the **Browse** button and interactively choose a directory. The window will appear as shown in Figure 2.8.

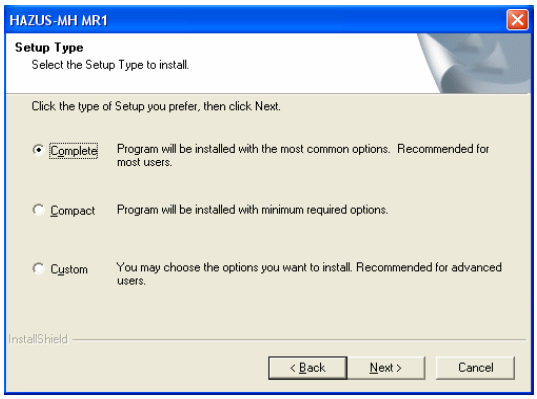


Figure 2.5. Complete Installation.

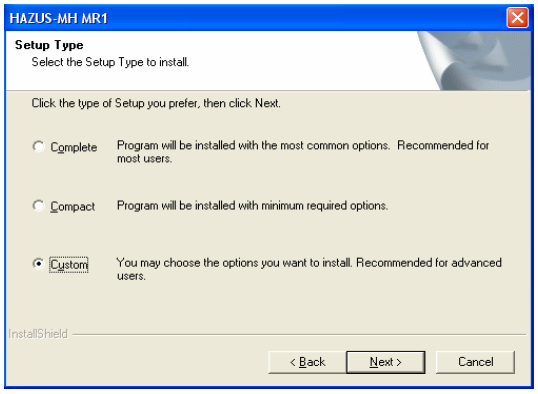


Figure 2.6. Custom Installation.

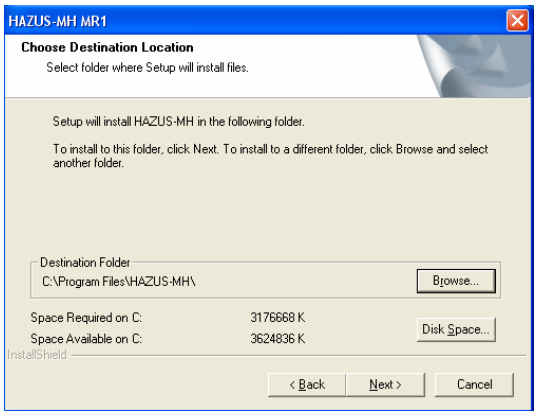


Figure 2.7. Specify the Path of the HAZUS Program Directory.

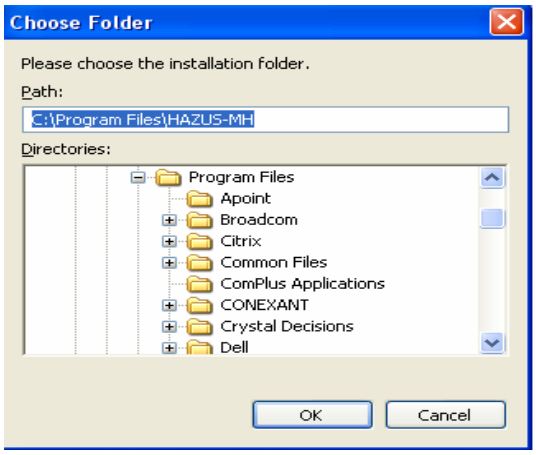


Figure 2.8. Specify the Path of the HAZUS Directory Interactively.

You can select or type-in a new directory path and click on **OK**. You will be returned to the original "Select Installation Directory" window and the directory that you have selected will appear in the middle of the window. Click the **Next** button.

10. Folders will be created for the data files associated with your study regions. Specify the primary destination directory where you prefer HAZUS-MH Region subfolders to be created. The default directory is C:\Program files\HAZUS-MH, as shown in Figure 2.9. If you accept the default destination directory, click on the **Next** button. Otherwise, click on the Browse button and interactively choose a directory. The "Select Destination Directory" will appear as shown in Figure 2.10.

11. By default the DVD Drive is assumed to be the folder where the state data will be available for running HAZUS-MH. If you want to use the State Data from a Network or Local drive then click on the Browse button as shown in Figure 2.11

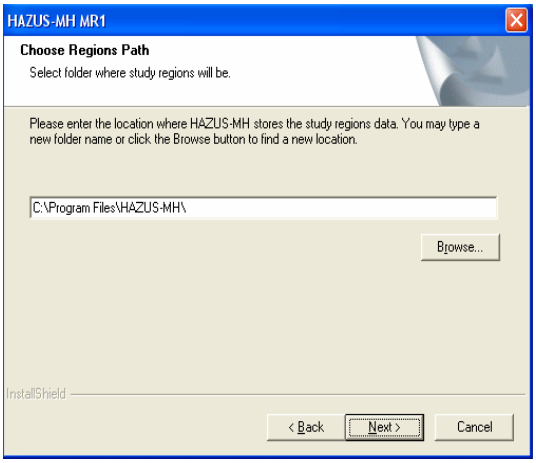


Figure 2.9. Default Directory for Study Region Files.

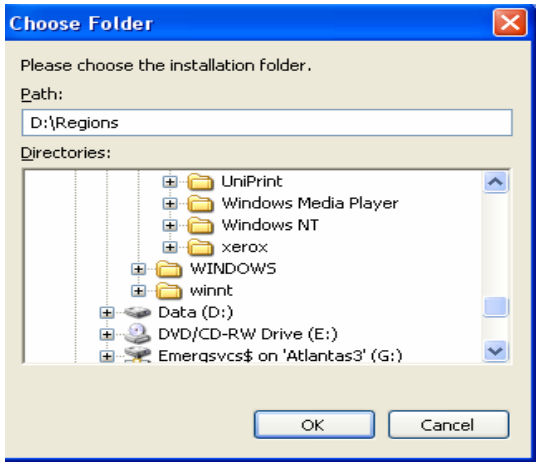


Figure 2.10. Create Directory for Study Region Files.

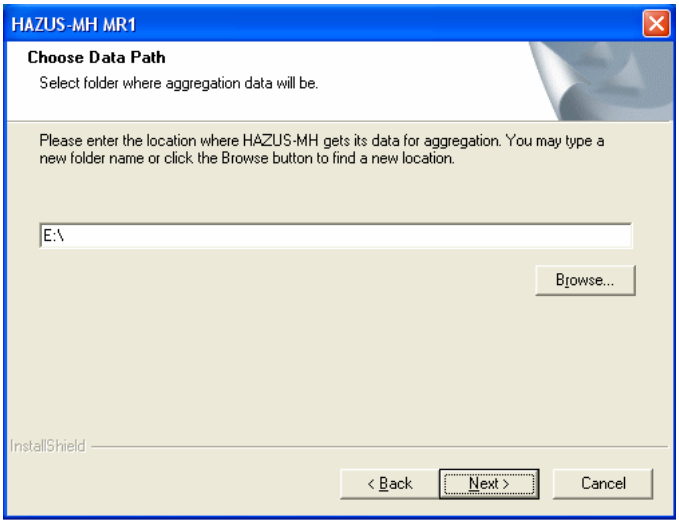


Figure 2.11. Set Data Path.

below and select the folder where you would like to copy the State Data after installation. If you want to use the state data from the DVD then there is no need to make a change to the path on the dialog. Click on the next button.

NOTE: The "Choose Data Path" dialog only specifies the folder where the state data will be copied by the user from the DVD after installation has completed. This dialog doesn't copy the data from the DVD to the specified folder; that has to be done manually by the user after installation.

12. If a custom installation was chosen, the next screen will offer a choice of program modules. One or more hazard modules must be selected (see Figure 2.12).

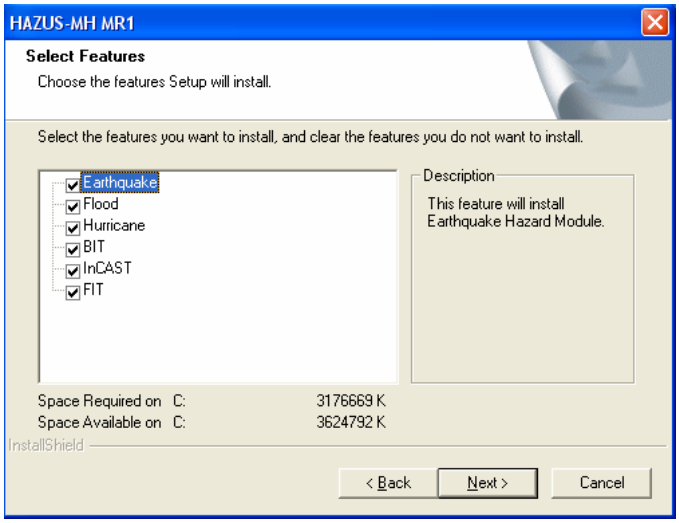


Figure 2.12. Select Each Hazard Module and Tool Program to Install.

Here is a brief description of the different components:

- **Earthquake** is one of three natural hazard program components.
- **Flood** is one of three natural hazard program components.
- **Hurricane** is one of three natural hazard program components.
- **BIT** converts custom data to HAZUS format (see Chapter 8).
- **InCAST** is a stand-alone tool to use for collecting inventory data in a format compatible with the HAZUS format.

13. Your next screen will show the installation option you selected and the directory paths you designated for the program, region data files, and data path. Figure 2.13 and Figure 2.14 show the screens that will display, depending on whether a complete or custom installation was chosen.

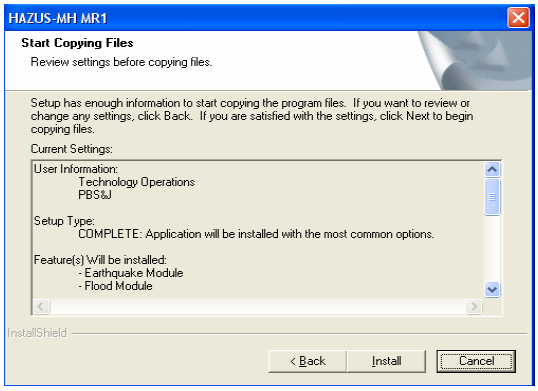


Figure 2.13. Complete Installation Settings.

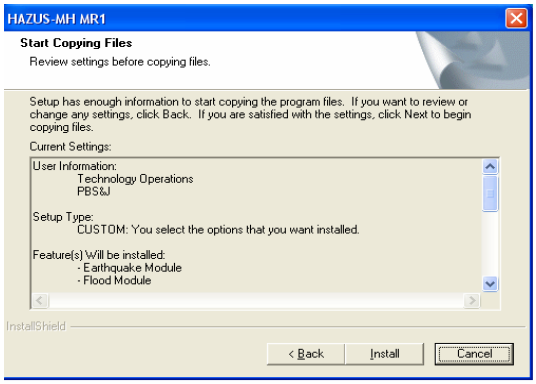


Figure 2.14. Custom Installation Settings.

Review the installation settings. Click on the **Back** button to go back to any of the previous windows and change the previous selections. If you are satisfied with your selection, click the **Install** button.

14. It will take five to ten minutes for the program to install. When the installation is complete the dialog box shown in Figure 2.15 will appear and HAZUS program icon will automatically be created on your desktop. Click **Finish** to return to the Windows Setup. It is recommended that your restart your machine.

Figure 2.15. Dialog Box Indicating Successful HAZUS Installation.

2.3 Upgrading from HAZUS99 to HAZUS-MH

HAZUS-MH is distinctly different than previous versions of the software. The program conforms to current GIS technology and the object-oriented data structure, or geodatabase. HAZUS-MH functions inside of the ArcGIS environment and enhances its spatial analysis capabilities. Data used to calculate risk or loss, and data inventories must be in geodatabase format.

Geodatabases offer many advantages over previous GIS data structures, including a uniform repository for all feature types (i.e., points, lines, and polygons), and more intelligent spatial relationships. HAZUS-MH applies the newest GIS technology to improve loss estimation analysis and results.

HAZUS99 inventory data and study regions cannot be used directly in HAZUS-MH. Individual inventories can be imported to a geodatabase; regions (i.e., HAZUS99 analysis regions) cannot. Re-run the loss estimation analysis in HAZUS-MH to take advantage of the improved inventories, parameter values and model algorithms. See Chapter 5 for details on collecting inventory data.

2.4 Starting the Program

The installation program described in Section 2.2 creates a HAZUS icon/shortcut on the computer's desktop. To start the program, double click on the HAZUS icon shown in Figure 2.16.

Figure 2.16. HAZUS-MH Icon.

In order to enter inventory or run an analysis, you must first create a study region. Creating a study region is discussed in Section 3.1.

2.5 Uninstalling the Program

To uninstall HAZUS, go to **Start | Settings| Control Panel** as shown in Figure 2.17.

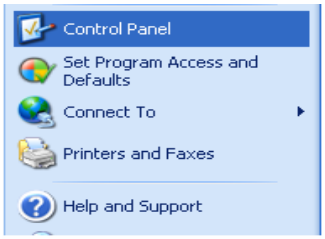


Figure 2.17. Open the Control Panel.

From the Control Panel window, double click on **Add/Remove Programs** as shown in Figure 2.18.

You will be prompted with an Add/Remove Program Properties window as shown in Figure 2.19. Highlight HAZUS-MH MR3 and double click on the Change/Remove button. The install wizard will start and provide you with three uninstall options shown in Figure 2.20: Modify your previous installation (e.g., add tools), Repair (reinstall) program components, or Remove all of the previously installed HAZUS files.

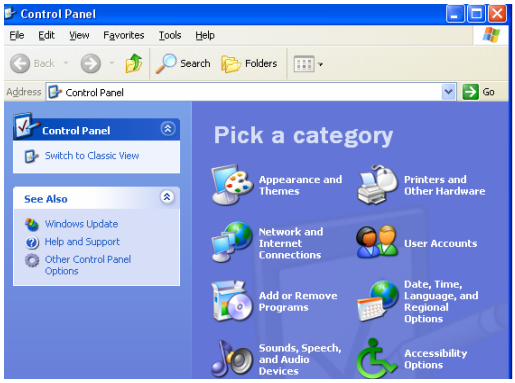


Figure 2.18. Select Add/Remove Programs.

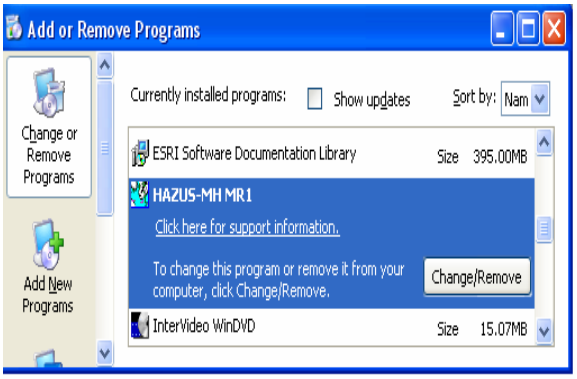


Figure 2.19. Uninstall HAZUS-MH.

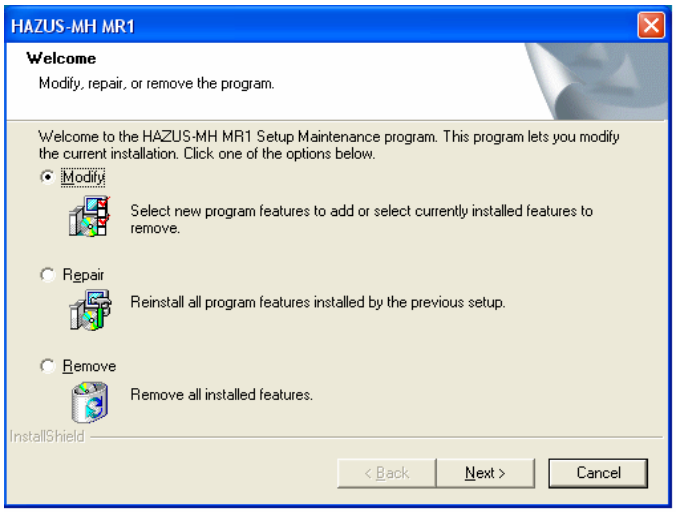


Figure 2.20. Modify, Repair, or Remove the HAZUS Program.

2.6 Program Basics

HAZUS-MH is an ArcGIS-based program with a standard Windows interface that provides a familiar working environment. Unlike the previous versions, HAZUS-MH resides on top of ArcMap. The only ArcMap function that has been disabled is table loading. Buttons are added to the ArcMap menu bar to perform HAZUS hazard risk analysis and loss modeling functions (see Figure 2.21).

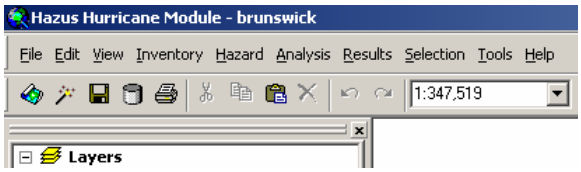


Figure 2.21. HAZUS Menu Bar Adds Functions to ArcMap.

The user interface is comprised of a menu bar, tool bar and various screens and windows. These elements follow standard Windows conventions and allow you to manipulate and analyze data within HAZUS. This section briefly describes some of the features.

2.6.1 Menu Bar

Functional menus appear alongside the general ArcMap menus: Inventory (Figure 2.22), Hazard (Figure 2.23), Analysis (Figure 2.24), and Results (Figure 2.25). The menu bar is displayed at the top of the screen. **Bold** menu items indicate that the items are available; grayed out menu items are not available. The menus marked with a (*) as described in Table 2.2 below are the menus added by HAZUS to the ArcMap menu.

Table 2.2. HAZUS-MH Menu Items

File	Execute standard software actions such as open table, save and print.
Edit	Edit text and features including cut, copy, and paste.
View	View data and map display. Zoom in or out. Show the geodatabase Table of Contents.
Inventory*	Add, modify, delete and copy inventory information.
Hazard*	Specify the scenario you wish to work with.
Analysis*	Modify the analysis data, parameters and assumptions.
Results*	Used to view and map analysis results.
Selection	Locate multiple inventory items based on criteria you provide, and search for specific record information.
Tools	Basic GIS utilities menu.
Help	Help files are available for ArcGIS only. Help files for HAZUS are not available in the current version, due to budget constraints.

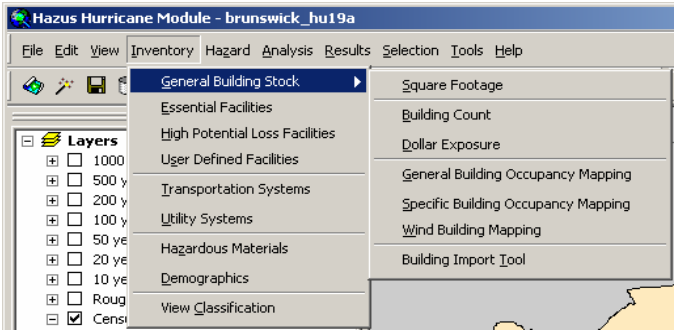


Figure 2.22. HAZUS Inventory Menu.

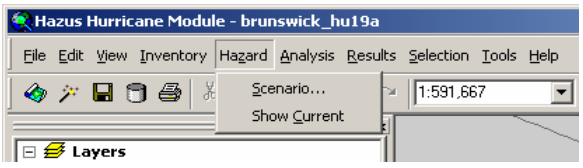


Figure 2.23. HAZUS Hazard Menu.

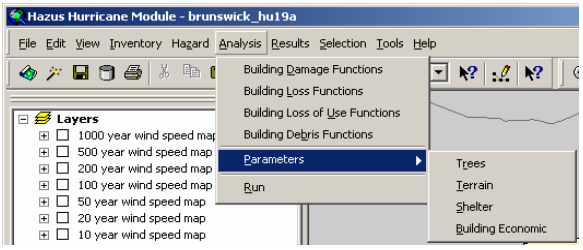


Figure 2.24. HAZUS Analysis Menu.

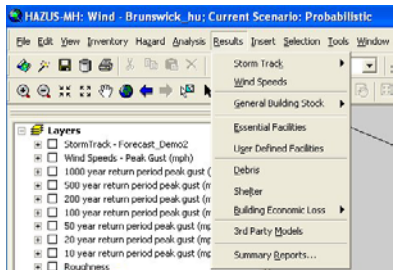


Figure 2.25. HAZUS Results Menu.

2.6.2 Toolbar

A toolbar is a set of buttons that execute commands by clicking on them. The standard HAZUS tool bar appears under the menu bar. The toolbar buttons are used for object selection, zooming in or out, moving around maps, obtaining information, measuring distance and creating points. Details of the ArcMap toolbars can be found in the ArcGIS Help Manual. **Bold** buttons indicate that the buttons are available; grayed out buttons are not available. HAZUS adds two tools to the ArcGIS toolbar shown in Figure 2.26. The first tool button accesses the startup dialogue for selection, importing, or creation of an analysis study region. The wand tool allows switching among the hazard types (earthquake, flood, hurricane) the user has loaded.

Figure 2.26. HAZUS Additions to the Toolbar.

2.7 Limitations of Use for the Hurricane Model

Table 2.3 summarizes two sets of sample run-times for the Hurricane Model.

Table 2.3. Analysis Times[1]

Case	Region Size	Aggregation Time	Analysis Time Probabilistic (Select All)	Analysis Time Single Storm (Select All)
1	150 Tracts (Individual Tracts)	6 Minutes	20-25 minutes	5 minutes
2	1555 Tracts (State of North Carolina)	6 Minutes	8-12 hours	30-35 minutes

[1] System Configuration: Windows 2000, SP3, PIII, 512 MB RAM, 1.5GB Page

The user can expect the following limitations in using the Hurricane Model:

1. SQL 2005 Express has a size limit of 4 GB per database, which affects the size of the region you can analyze. The data for the 3 hazards share the 4 GB limit. To

work-around the 4 GB database limit, the full version of Microsoft SQL Server 2005 must be used.

2. Many functions take a long time to run. Study region aggregation can be speeded up by copying the database to the local hard-disk. The process is as follows:

   The HAZUS-MH installation allows the user to specify the folder where the state data will be copied through the "**Choose Data Path**" dialog in the installation wizard. **If the user has already specified the folder from the "Choose Data Path" dialog during installation where the State Data will be copied from the DATA DVD then the user only needs to perform the Step "a" below after installation**. If the user did not specify the folder where the state data will be copied during installation or if the user wants to change the folder he/she specified during installation then follow all the steps below.

   NOTE: The "Choose Data Path" dialog in the installation process only specifies the folder where the state data will be copied by the user from the DVD after installation has completed. This dialog doesn't copy the data from the DVD to the specified folder; that has to be done manually by the user after installation.

   a. Copy one or more of the state data folders (e.g., NC1), both the DVD identification files (e.g., D1.txt ^ 1.txt) and "syBoundary.mdb" from the Data DVD to a folder on your hard drive (e.g., D:\HAZUS-Data\).

   b. Next, the user needs to point the program to the new data folder. To do this, click on the Start button, select "Run", type "regedit" and then click OK. Next, navigate through the folder down to the following location:

      HKEY_LOCAL MACHINE | SOFTWARE | FEMA | HAZUS-MH | General

   c. Now look at the right side of the window and find the entry called "DataPath1". Double click on "DataPath1" and enter the full name of the folder on the hard drive that contains the data copied from the DVDs.

   d. IMPORTANT: Make sure the path ends with a "\" and do not change any of the other registry settings

3. Components of independently developed data sets might not line up on maps, for example, the placement of bridges and roads, and facilities.

4. The BIT module only provides square footage, dollar exposure, and building count data to the Hurricane Model.

5. Only the General data from an InCAST database are imported into the current version of the Hurricane Model

6. An error is sometimes created when closing ArcMap.

7. The replacement costs associated with schools and transportation facilities, such as runways, are based national data that might not reflect actual local conditions.

2.7.1 Freeing Memory Using SQL Server Manager

SQL Server can often lock memory as a working set. Because memory is locked, HAZUS-MH or other applications might receive out of memory errors or run slower. To work around this problem, restart the SQL Server service as follows:

1. Restart your computer by clicking **Start,** and then click **Shut Down.** In the "**What do you want the computer to do?"** list, click **Restart.** NOTE: Restarting will close all open applications, so be sure to save your work before choosing to re-start.
2. Restart SQL Server using the SQL Service Manager. Use the following process to open SQL Server Service Manager (SQL SSM) and restart the service:
   a. Close HAZUS and related applications (BIT and InCAST), if they are running.
   b. Open a Command window (Start | Run | Cmd)
   c. Type NET STOP MSSQL$HAZUSPLUSSRVR and hit Enter. You should see a message about the service stopped successfully.
   d. Type NET START MSSQL$HAZUSPLUSSRVR and hit Enter. You should see a message about the service started successfully.
   e. Close the Command window by typing Exit

2.7.2 Increasing Virtual Memory to Run Large Study Regions

An "out of memory" error might occur when running a hurricane analysis with the probabilistic option if the region size is more than 3000 census tracts or census blocks. This occurs if the current page file size is not enough to carry out updates to the SQL server database. To work around this problem increase the page file size. The process is as follows:

1. Open the control panel folder and locate the system icon. To open the control panel, click on **Start**, point to **Settings**, and then click **Control Panel**.
2. Double-click the system icon to open the **System Properties** dialog (shown in Figure 2.27).

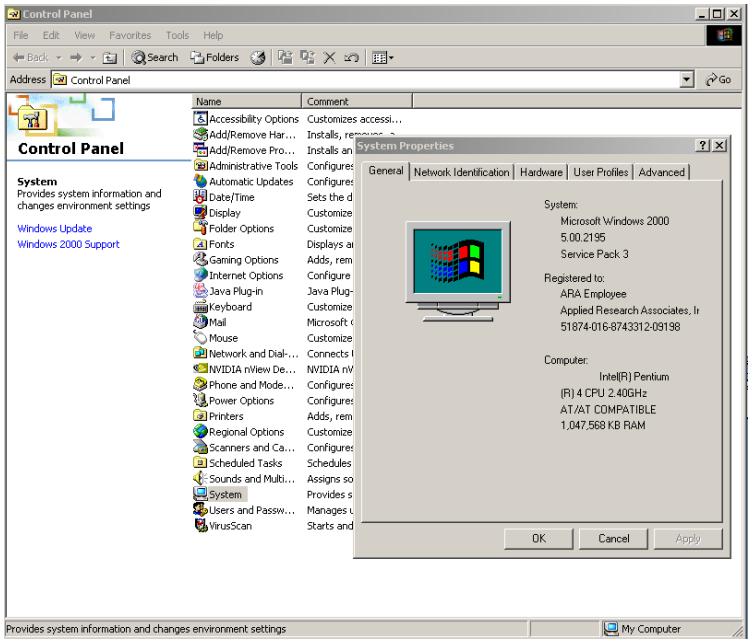


Figure 2.27. Control Panel Folder and the System Properties Dialog.

3. On the **Advanced** tab, click **Performance Options**, and under **Virtual memory**, click **Change** (Figure 2.28 and Figure 2.29).

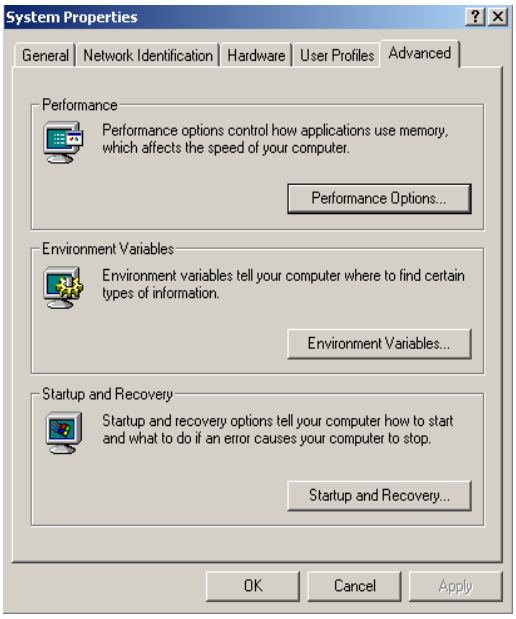


Figure 2.28. Advanced Page on the System Properties Dialog.

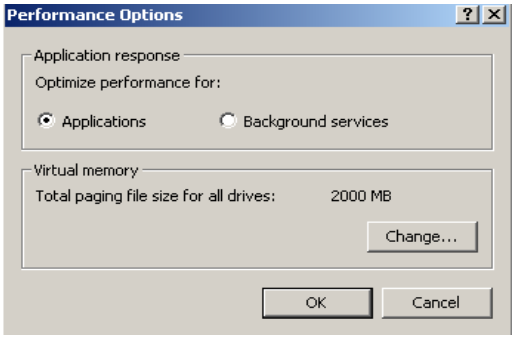


Figure 2.29. Performance Options Dialog.

4. In the **Drive** list, click the drive that contains the paging file you want to change. (Figure 2.30)
5. Under **Paging file size for selected drive**, type a new paging file size in megabytes in the **Initial size (MB)** or **Maximum size (MB)** box, and then click **Set**. (Figure 2.30)

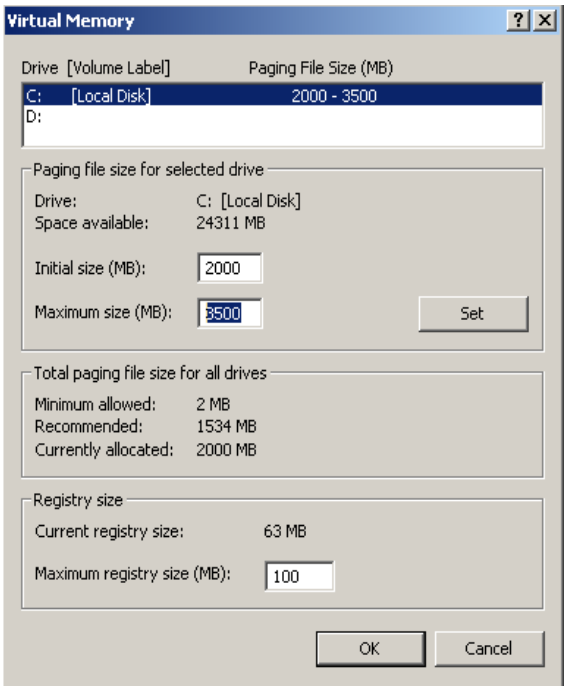


Figure 2.30. Virtual Memory Settings.

Chapter 3. Running HAZUS with Default Data

HAZUS contains a variety of default parameters and databases. You can run a loss estimation analysis using only default data, but your results will be subject to a great deal of uncertainty. Default data supplied with HAZUS are described in Section 3.5. If you wish to reduce the uncertainty associated with your results, you can augment or replace the default information with improved data collected for your region of study. This chapter will guide you through a very simple analysis using only default data. For more detailed information about collecting and entering additional data or modifying default parameters and data, see Chapters 4 through 8.

Before running a loss estimation analysis you must define a study region. *The Study Region*, in HAZUS terminology, is the geographic unit for which data are aggregated, the hazard defined, and the analysis carried out.

3.1 Defining the Study Region

To create a study region, start HAZUS and step through the study region creation wizard as illustrated in Figures 3.1 through 3.8:

- Select "Create a new region" and click **OK**.
- Enter a unique name for the study region.
- Select the hurricane hazard.
- Select aggregation at the county level.
- Select North Carolina.
- Select Brunswick County.
- Finish the wizard.
- Wait for region to be created.

A progress bar will be displayed and the HAZUS Shell will create the study region.

When the creation process ends, the progress and creation dialogs will close, leaving the region wizard dialog on screen as shown in Figure 3.9. To open a region:

- Select "Open a region".
- Pick the region you created and step through the rest of the wizard (Figure 3.10).

You should see a screen similar to the one shown in Figure 3.11.

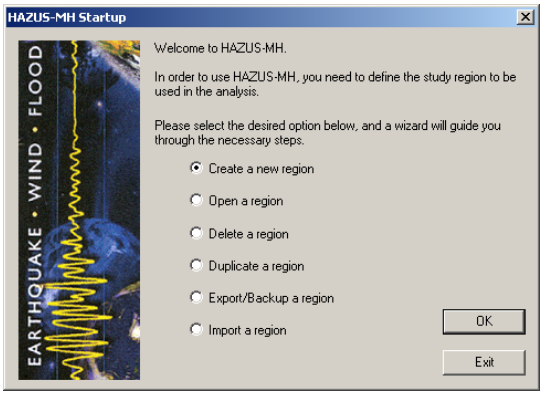


Figure 3.1. Startup Screen.

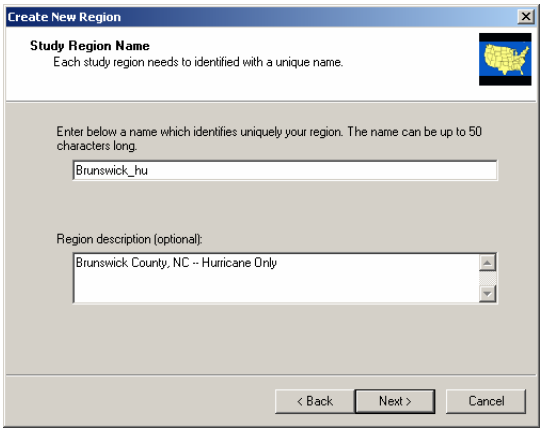


Figure 3.2. Study Region Name.

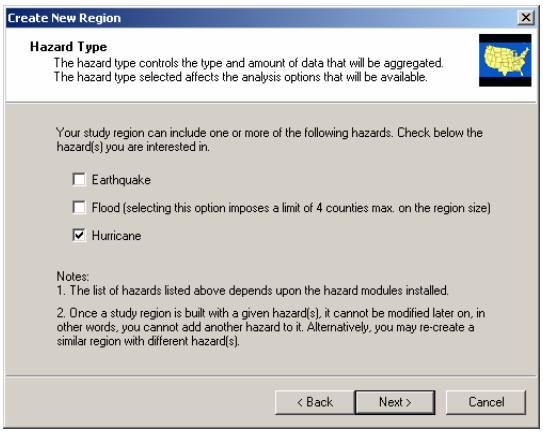


Figure 3.3. Hazard Selection.

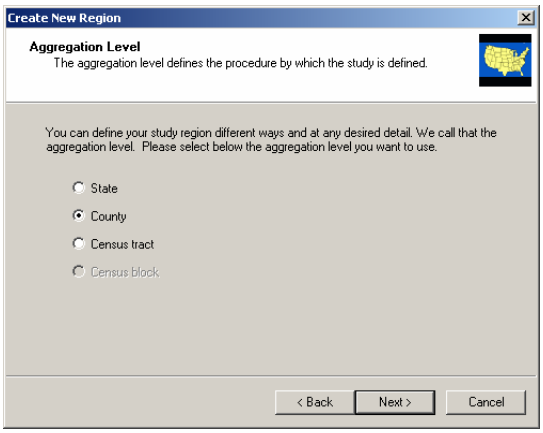


Figure 3.4. Aggregation Level.

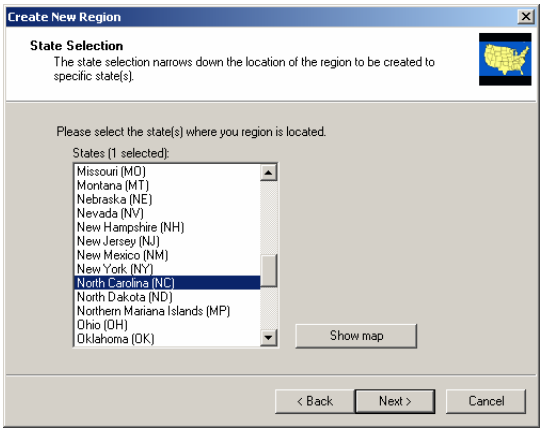


Figure 3.5. State Selection.

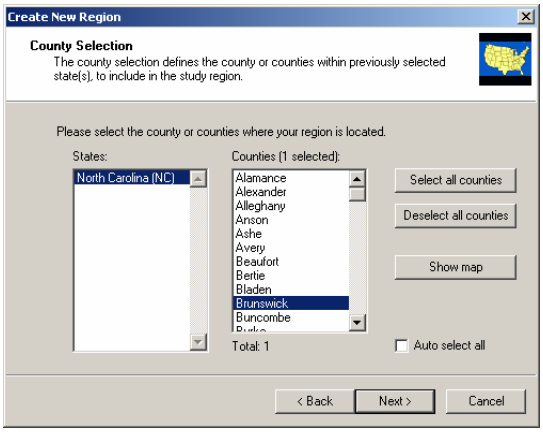


Figure 3.6. County Selection.

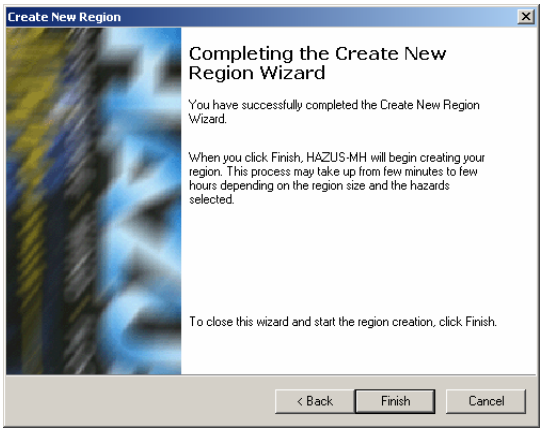


Figure 3.7. Completion Page in Study Region Creation Wizard.

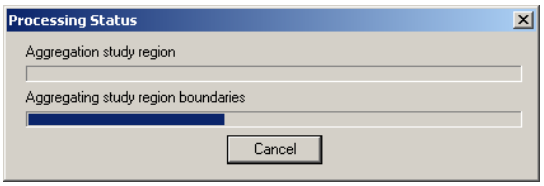


Figure 3.8. Study Region Creation Status.

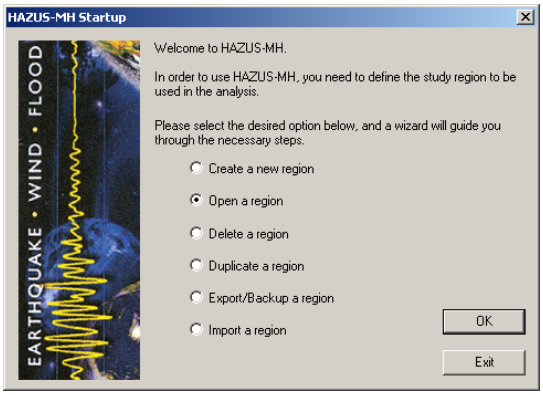


Figure 3.9. Open a Region.

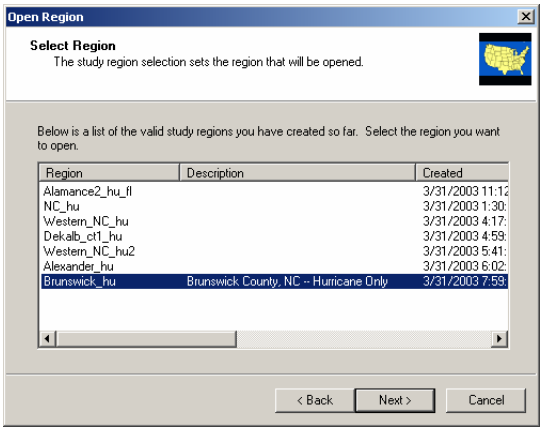


Figure 3.10. Select Region.

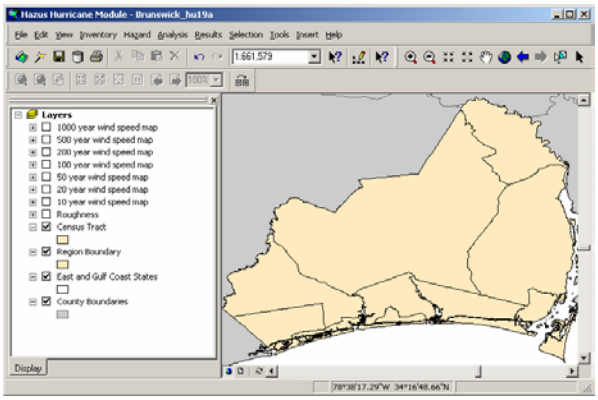


Figure 3.11. Sample Hurricane Study Region for Brunswick County, NC.

3.2 Defining a Hurricane Hazard

Before an analysis can be run, you must specify the hurricane hazard. While there are multiple hurricane hazard options available (see Section 9.3), the option discussed in this section is a probabilistic hurricane hazard, which is the default hurricane hazard. To activate the probabilistic hurricane hazard, follow these steps:

- Select the **Scenario** command from the **Hazard** menu. This brings up the Welcome Page of the Hurricane Scenario Wizard shown in Figure 3.12.
- Click on the **Next** button.
- Make sure that **Probabilistic** is selected in the Hurricane Scenarios list box as shown in Figure 3.13.
- Click on the **Next** button two times.
- Click on **Finish** to exit the Hurricane Scenario Wizard (Figure 3.14).

To confirm that the active hurricane hazard is set to Probabilistic, select the **Show Current** command from the **Hazard** menu (Figure 3.15).

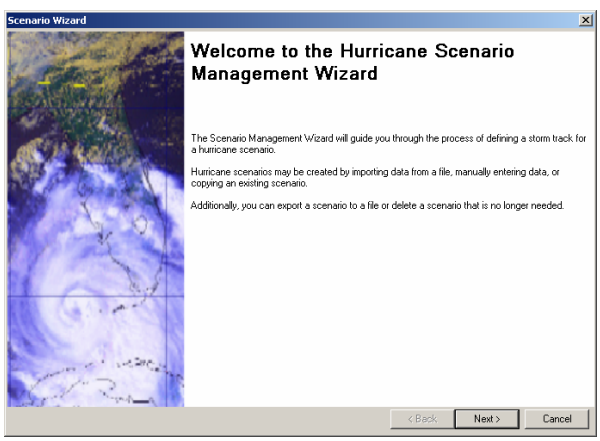


Figure 3.12. Hurricane Scenario Wizard – Welcome Page.

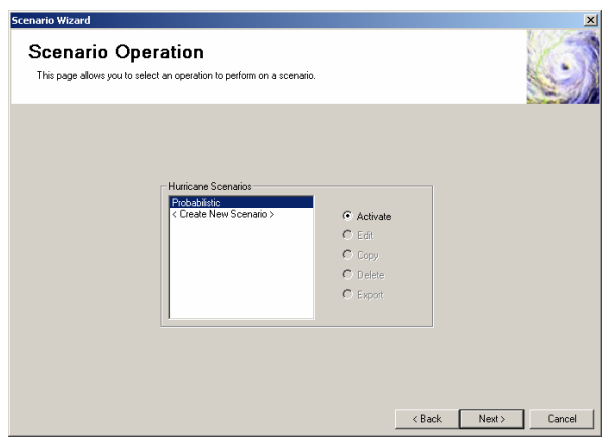


Figure 3.13. Hurricane Scenario Wizard – Scenario Selection Page.

3.3 Running an Analysis Using Default Data

To run an analysis with default data and parameters, select the **Run** command from the **Analysis** menu. This command brings up the Analysis Options Dialog shown in Figure 3.16.

Figure 3.14. Hurricane Scenario Wizard – Completion Page.

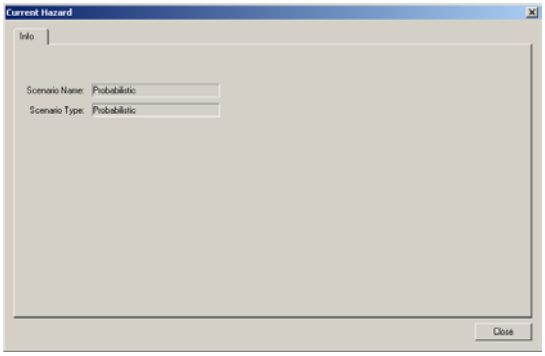


Figure 3.15. Current Hazard Dialog.

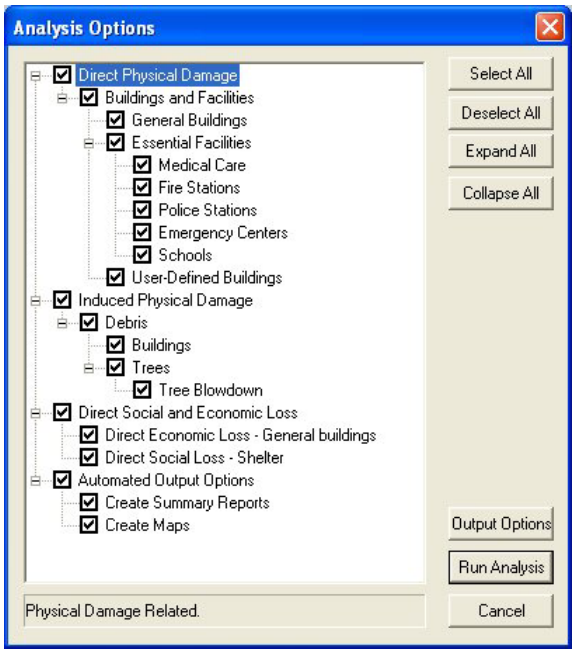


Figure 3.16. Analysis Options Dialog.

Depending on the size or your study region and the performance of your computer, you may find it useful to exclude inventory items or outputs that are of secondary interest. This allows you to review intermediate results and check to determine if the most important results look reasonable or serve your needs without waiting several hours to run a complete analysis. Once you are satisfied with inventories and model parameters, you may wish to perform additional analyses with all options running simultaneously. For the small study region created for this example, click on the **Select All** button and then click on the **Run Analysis** button to start the analysis. While the analysis is running, the progress dialog shown in Figure 3.17 will be displayed.

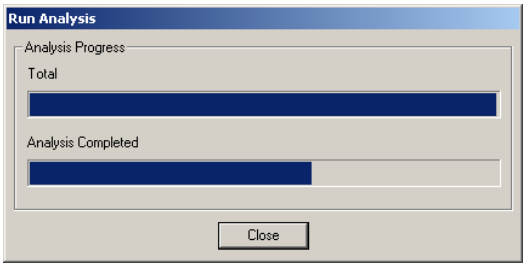


Figure 3.17. Analysis Progress Dialog.

3.4 Viewing Analysis Results

Each of the analysis modules produces a series of outputs. The outputs can be in a tabular or graphical form. Analysis results are accessed from the **Results** menu as shown in Figure 3.18. Three types of output are available:

- Tables of results by census tract (Figure 3.19)
- Map layers (Figure 3.20)
- Summary reports of results by county and for the whole region (Figure 3.21)

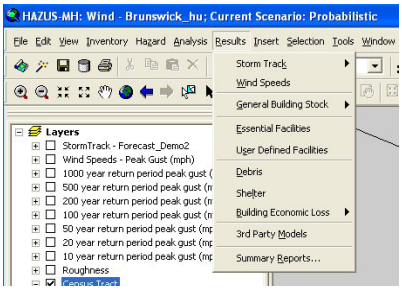
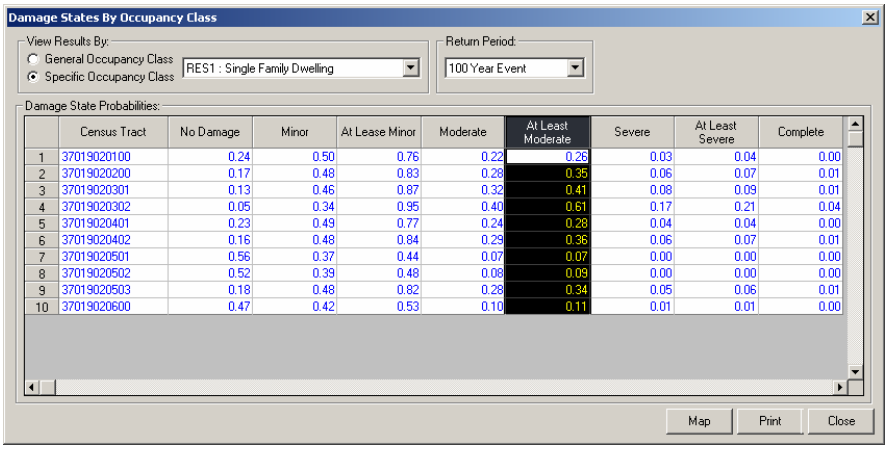


Figure 3.18. Results Menu Choices.



	Census Tract	No Damage	Minor	At Lease Minor	Moderate	At Least Moderate	Severe	At Least Severe	Complete
1	37019020100	0.24	0.50	0.76	0.22	0.28	0.03	0.04	0.00
2	37019020200	0.17	0.48	0.83	0.28	0.35	0.06	0.07	0.01
3	37019020301	0.13	0.46	0.87	0.32	0.41	0.08	0.09	0.01
4	37019020302	0.05	0.34	0.95	0.40	0.61	0.17	0.21	0.04
5	37019020401	0.23	0.49	0.77	0.24	0.28	0.04	0.04	0.00
6	37019020402	0.16	0.48	0.84	0.29	0.36	0.06	0.07	0.01
7	37019020501	0.56	0.37	0.44	0.07	0.07	0.00	0.00	0.00
8	37019020502	0.52	0.39	0.48	0.08	0.09	0.00	0.00	0.00
9	37019020503	0.18	0.48	0.82	0.28	0.34	0.05	0.06	0.01
10	37019020600	0.47	0.42	0.53	0.10	0.11	0.01	0.01	0.00

Figure 3.19. Sample Results Table: Damage Probabilities for Single-Family Residential Buildings.

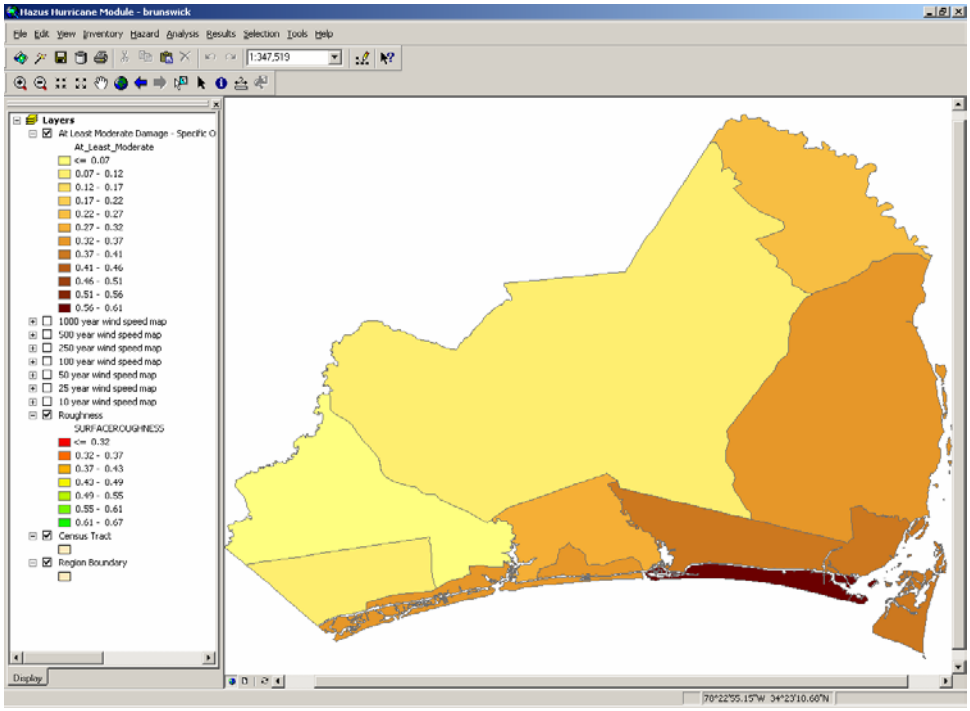
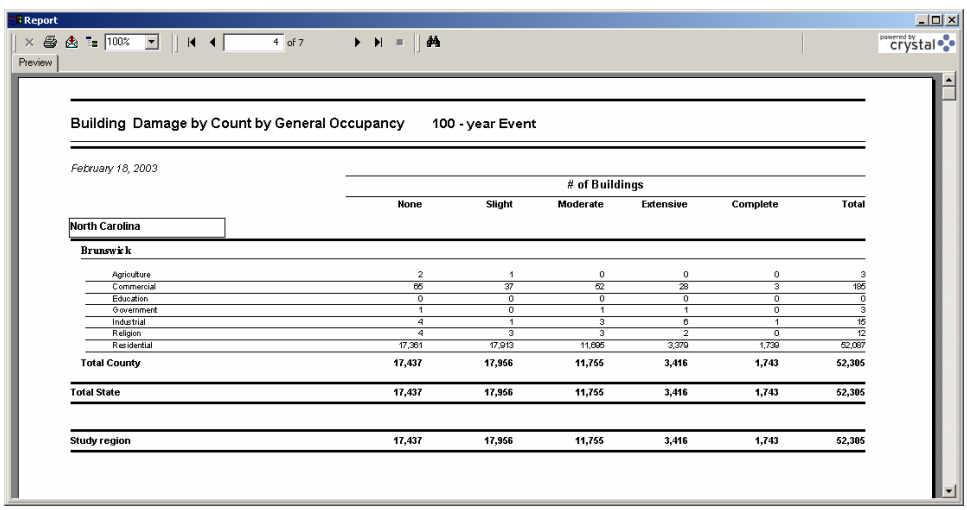


Figure 3.20. Sample Map Layer: Probability of at Least Moderate Damage for Residential Buildings.



Report

Preview

Building Damage by Count by General Occupancy 100 - year Event

February 18, 2003

	# of Buildings					
	None	Slight	Moderate	Extensive	Complete	Total
North Carolina						
Brunswick						
Agriculture	2	1	0	0	0	3
Commercial	65	37	52	28	3	185
Education	0	0	0	0	0	0
Government	1	0	1	1	0	3
Industrial	4	1	3	6	1	15
Religion	4	3	3	2	0	12
Residential	17,361	17,913	11,695	3,379	1,739	52,087
Total County	**17,437**	**17,956**	**11,755**	**3,416**	**1,743**	**52,305**
Total State	**17,437**	**17,956**	**11,755**	**3,416**	**1,743**	**52,305**
Study region	**17,437**	**17,956**	**11,755**	**3,416**	**1,743**	**52,305**

Figure 3.21. Sample Summary Report: Building Damage by General Occupancy.

Map layers use colors or symbols to display results. For example in Figure 3.20, the census tracts with the darkest shading indicate 56% to 61% of the single-family residential buildings are at least moderately damaged. To create a map layer, select the desired column in a results table and click on the **Map** button at the bottom of a table of results (see Figure 3.19). A variety of summary reports are available through the **Summary Reports** menu at the bottom of the **Results** menu. A sample report is shown in Figure 3.21. Displaying results is discussed in more detail in Chapter 10.

3.5 Default Databases and Default Parameters

While most users will develop a local inventory that best reflects the characteristics of their region, such as building types and demographics, HAZUS is capable of producing crude estimates of losses based on a minimum of local input. Of course, the quality and uncertainty of the results will be affected by the detail and accuracy of the inventory and the economic and demographic data provided. The crude estimates would most likely be used only as initial estimates to determine where more detailed analyses would be warranted. This section describes the types of data that are supplied as defaults with HAZUS.

3.5.1 Default Databases

Default inventory databases provided with HAZUS are of two types. The first type is a national listing of individual facilities, such as dams, bridges, or locations where toxic materials are stored. These databases are modified versions of publicly available databases. The modifications that have been made have been to eliminate data elements that are not needed for the loss estimation methodology. The second type of default database consists of data aggregated on a census tract or census block scale. Examples are building stock square footage for each census tract and census data. These default databases are also derived from publicly available data, eliminating fields of data that are not needed for the methodology.

The databases are stored on the HAZUS DVDs. When you aggregate a region, HAZUS extracts only those portions of the databases that are relevant to your region. You can then access these region specific default databases and update them with improved information that you have obtained. Displaying and modifying inventories is discussed in Chapter 7.

The following default inventory data are currently supplied with HAZUS:

- Demographic Data
  - Population Distribution
  - Age, Ethnic, and Income Distribution
- General Building Stock
  - Square Footage of Occupancy Classes for Each Census Tract
- Essential Facilities
  - Medical Care Facilities
  - Emergency Response Facilities (fire stations, police stations, EOCs)
  - Schools
- High Potential Loss Facilities
  - Dams
  - Nuclear Power Plants
  - Military Installations

- Facilities Containing Hazardous Materials
- Transportation Lifelines
  - Highway Segments, Bridges and Tunnels
  - Railroad Tracks, Bridges, Tunnels and Facilities
  - Light Rail Tracks, Bridges, Tunnels and Facilities
  - Bus Facilities
  - Port Facilities
  - Ferry Facilities
  - Airports Facilities and Runways
- Utility Lifelines
  - Potable Water Facilities, Pipelines and Distribution Lines
  - Waste Water Facilities, Pipelines and Distribution Lines
  - Oil Facilities and Pipelines
  - Natural Gas Facilities, Pipelines and Distribution Lines
  - Electric Power Facilities and Distribution Lines
  - Communication Facilities and Distribution Lines

Note that only the Demographics, General Building Stock, and Essential Facilities are used in the loss models developed for the present version of the Hurricane Model. The remaining default inventory databases can be only be viewed in tables or as map layers.

3.5.2 Default Parameters

In addition to default databases, the user is supplied with default parameters documented throughout the *Technical Manual*. Examples of default parameters are terrain, tree coverage, and percent of residences that are owner occupied. Default relationships between occupancy classes and building types are provided to infer building inventory characteristics. With the exception of damage, loss, loss-of-use, and debris functions, the user can modify the default parameters if better information is available. Modifying default parameters is discussed in Chapter 4 through Chapter 8.

Chapter 4. Data Needed for a More Complete Loss Estimation Study

Figure 4.1 shows the steps that are typically performed in assessing and mitigating the impacts of a natural hazard such as an earthquake, hurricane or flood. In order to estimate regional losses resulting from a natural disaster, you need to have an understanding of both the size of the potential event (hazard identification) and the characteristics of the population and the environment that will be impacted (inventory collection). For example, a flood that occurs near a densely populated region will cause different types of losses than one that occurs in a mostly agricultural region. Similarly, the economic impacts of an earthquake in a highly industrialized region will be different from those in a region that predominantly supports a service economy. Thus, to reliably model the losses in your region, you will need to collect a wide variety of data so as to be able to characterize the buildings and lifelines, the population, and the structure of the local economy.

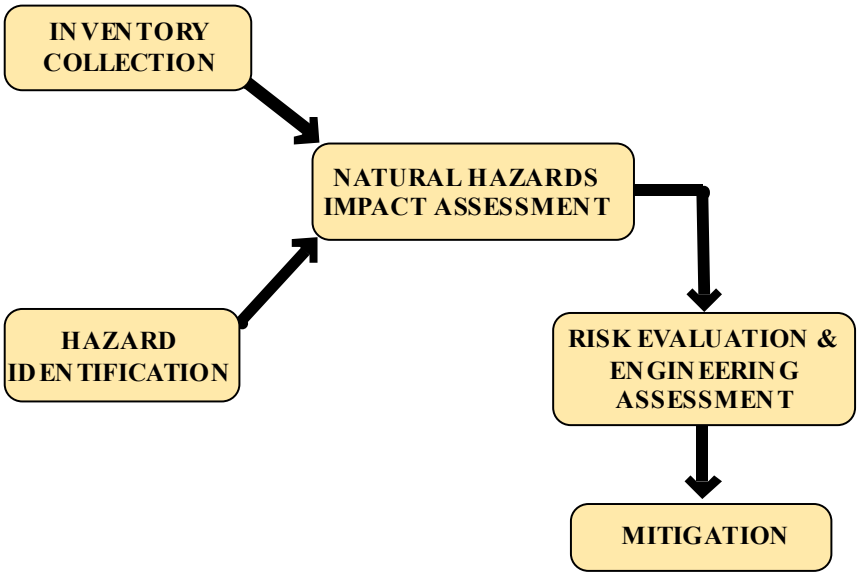


Figure 4.1. Steps in Assessing and Mitigating Losses Due to Natural Hazards.

4.1 Developing a Regional Inventory

In developing a regional inventory, it is almost impossible from a cost point of view to individually identify and inventory each man-made structure. Some important structures such as hospitals, schools, emergency operation centers, and fire stations may be identified individually, but the majority of buildings in a region are grouped together collectively and identified by their total value or square footage. To permit modeling of spatial variation in types and occupancies of buildings, a region is built up from sub-regions, and the inventory is collected for each sub-region. The Hurricane Model is

designed to use **census tracts** as the basic sub-region unit, and regions are built up by aggregating census tracts. However, if you select both hurricane and flood hazards when you create a study region, the Hurricane Model will use **census blocks** as the basic sub-region unit for consistency with the implementation of the Flood Model. Selecting or omitting Earthquake hazards in a study region has no effect on the whether the Hurricane Model will work at the census block or census tract level of aggregation.

Although the basic sub-region unit used in the Hurricane Model depends on whether your study region includes or excludes flood hazards, we will generally refer to census tracts as the basic sub-region unit throughout this manual to simplify the presentation.

For each census tract, your inventory might consist of the number of square feet of wood frame buildings, the number of square feet of unreinforced masonry buildings and so on for each building type. Figure 4.2 shows the inventory of single-family residential construction in a region. Note that the value of single-family residential construction is stored and displayed for each census tract in the region.

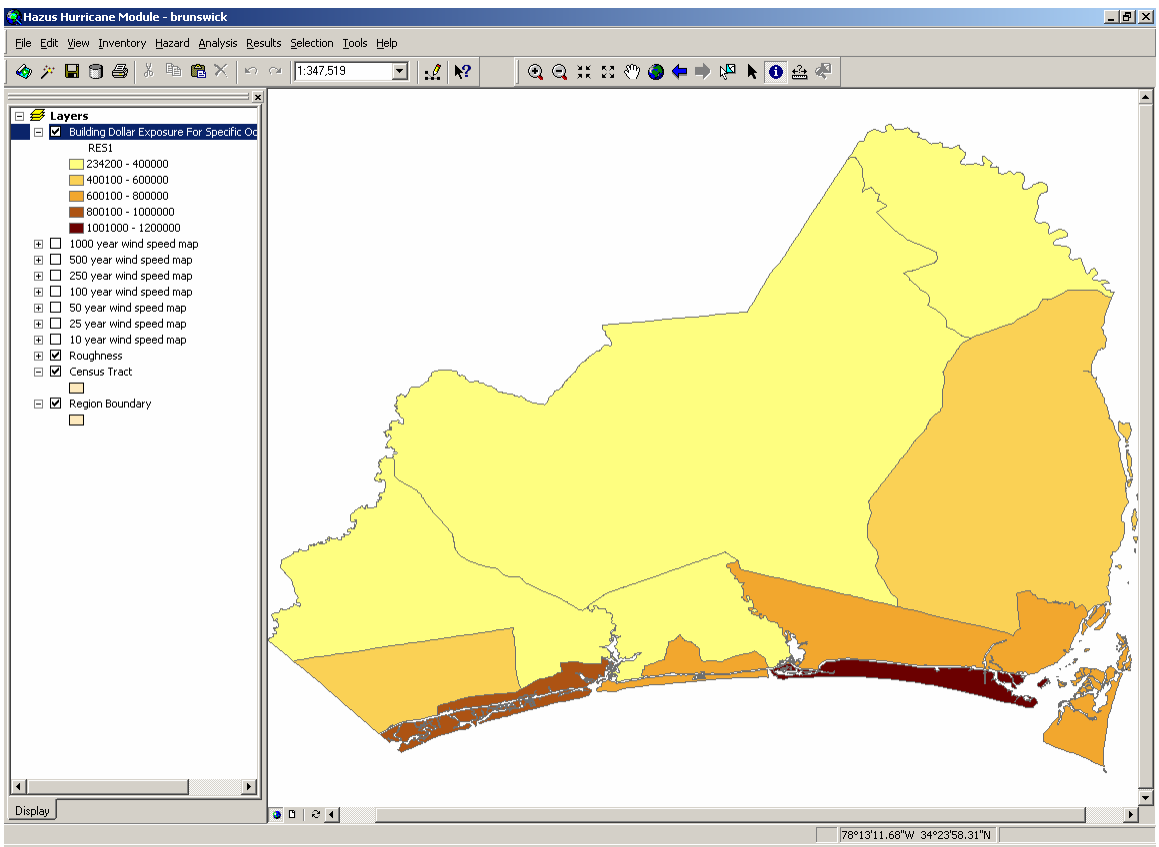


Figure 4.2. Value of Single-Family Residential Homes (RES1) by Census Tract.

In the methodology, the residential, commercial and industrial buildings that are not identified specifically are called the **general building stock**. General building stock is inventoried by calculating, for each census tract, the total square footage of groups of

buildings with specific characteristics (i.e., calculating the total square footage of masonry structures). Collecting even this "simplified" inventory can be problematic. There are rarely reliable and complete databases that provide the necessary information such as building size, building occupancy, building height and structural system that could be used to obtain total values for each census tract. Therefore, in general, inferences are made about large groups of buildings based on land use patterns, census information, business patterns, assessors' files, insurance files, etc. Inferences can take the form, "if this is a residential area, 50% of the buildings are single family wood structures and 50% are multi-family wood structures".

In contrast to the inventory of general building stock which is maintained in terms of total value per census tract, facilities that have some special significance such as **essential facilities** or components of **lifeline systems** can be maintained in the database by individual location. While some inferences can be used for site-specific facilities when data are unavailable, often you will have better access to databases about these facilities than you will for general building stock. Sometimes there will be few enough of these facilities that you can actually go to the site and collect the required inventory information. Sources of inventory information and how to go about collecting it are discussed in Chapter 5.

4.2 Standardizing and Classifying Data

There are two issues that must be considered in the development of an inventory: classification of data and collection and handling of data. Classification systems are essential to ensuring a uniform interpretation of data and results. As discussed earlier, it is almost impossible, from a cost point of view, to identify and individually inventory each building or component of each lifeline. Thus losses in a regional study are estimated based on general characteristics of buildings or lifeline components, and classification systems are a tool to group together structures or lifeline components that would be expected to behave similarly in a seismic event. For each of the types of data that must be collected to perform a loss study, a classification system has been defined in this methodology.

The building classification systems used in HAZUS have been developed to provide an ability to differentiate between buildings with substantially different damage and loss characteristics. The extent of wind-induced damage to buildings is largely determined by the performance of the building envelope. As a result, the building classification system developed for the Hurricane Model is significantly different than the scheme developed for the Earthquake Model (which focuses on the parameters that control the structural response of buildings subjected to ground motion) or the Flood Model (which focus on the depth of flooding relative to the finished floor elevation). Occupancies, on the other hand, are hazard-independent.

Although the details of the individual building classification schemes must necessarily be different, it is desirable to enforce at least a basic level of commonality among the building classification schemes developed for each hazard. This common basis is needed to facilitate comparisons of the risks posed by the three hazards in a given geographic

region. The five simple construction categories listed in Table 4.1 form the common basis for the building classification schemes used by the Earthquake, Flood, and Hurricane models.

Table 4.1. HAZUS General Building Types

General Building Type	Description
Wood	Wood frame construction
Masonry	Reinforced or unreinforced masonry construction
Steel	Steel frame construction
Concrete	Cast-in-place or pre-cast reinforced concrete construction
Manufactured Homes	Factory-built residential construction

Using the General Building Types (GBTs) in Table 4.1 as a point of departure, additional hazard-specific attributes have been added to the building classification scheme to provide a richer level of construction detail that is needed to accurately estimate damage and losses. For the Hurricane Model, two additional levels of detail have been added: (a) Specific Building Types (SBTs), which expand upon the five common GBTs, and (b) a set of Wind Building Characteristics (WBCs) within each SBT. The SBTs and WBCs are defined in Appendices A and B. Additional details can be found in the *Technical Manual*.

Even within a one particular combination of Specific Building Type and Wind Building Characteristics, there will be variations in building performance. Consider, for example, the metal connectors frequently used in residential construction to tie-down roof trusses to exterior walls. Depending on the product selected, the installation methods, the physical properties of the materials, and other factors, there can be a wide variation in uplift resistance. As a result, the **model building types** defined in the Hurricane Model are designed to represent the average characteristics of buildings in a class. The damage and loss prediction models are developed for model building types and the estimated performance is based upon the "average characteristics" of the total population of buildings within each class.

The general building stock is also classified based on occupancy. The occupancy classification is broken into **general occupancy** and **specific occupancy** classes. These classifications are common to the Hurricane, Flood, and Earthquake Models. The general occupancy classification system consists of seven groups: residential, commercial, industrial, agricultural, religion/non profit, government, and educational. These groups are further divided into 33 specific occupancies. A great deal of inventory information, such as census data, is only available by occupancy.

4.3 Inventory Databases

Once data have been collected, they can be accessed more easily and updated in the future if they are maintained in an orderly manner. Database formats have been developed for all of the data that you will collect to perform the loss study. An example

of a database of medical care facilities as you would see it when using HAZUS is found in Figure 4.3. The database contains fields that allow you to store a variety of attributes about each facility. For example, in addition to the name, address and city of the medical facilities as shown in Figure 4.3, you have space to enter the zip code, the name and phone number of a contact at the facility, the class of facility (small, medium, large), the number of beds, the structural type and several other attributes. There is also a "comments" field that allows you to include any information that does not fit into other fields. Some of these fields are not shown in the figure but can be accessed if you scroll to the right. You will notice in this example that some of the facilities are missing information such as address. A missing address does not prevent a facility from being included in the database or in the analysis. In order to be included, only the latitude, longitude and county need be specified while other attributes can be inferred (with corresponding uncertainty).

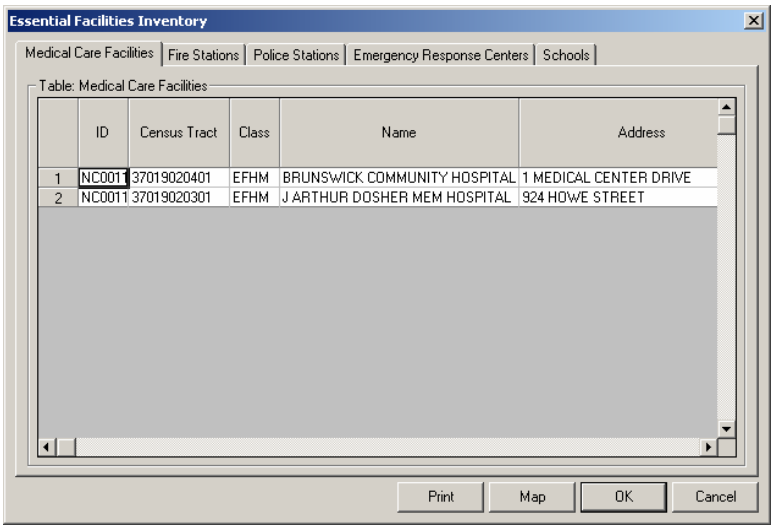
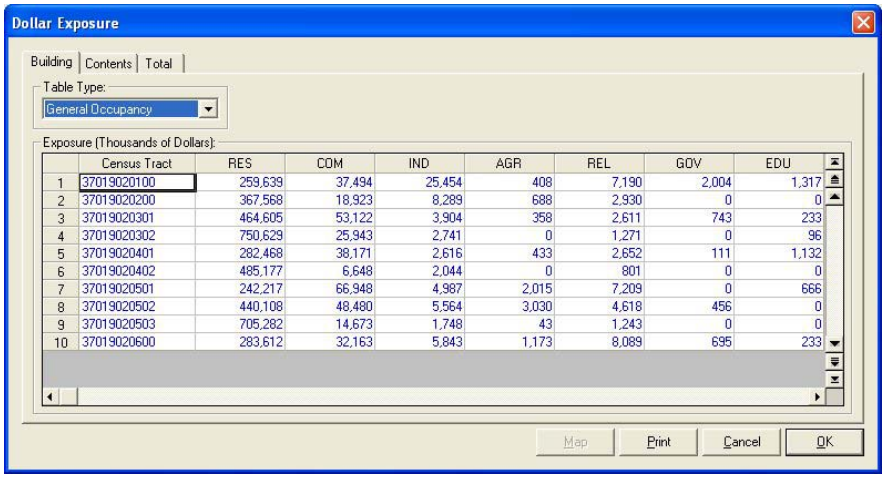


Figure 4.3. Sample Database of Medical Care Facilities.

Figure 4.4 shows an inventory database for general building stock. For general building stock, data are stored by census tract and for each census tract you will find the total monetary value for each of the seven general occupancy types: residential, commercial, industrial, agricultural, religious/non-profit, governmental and educational. For example, in census tract 37019020100, the value of residential construction is $259.6 million and for commercial construction is $37.5 million. You can also view the inventory in terms of each of the 33 specific occupancy types (RES1, RES2, RES3, etc.) by clicking on **Specific Occupancy** in the **Table Type** box above the table.

You will find that data entry is in a familiar spreadsheet format to allow for easy entry and modification. Moving around in the database involves using the arrow keys at the bottom and to the right of the window. Discussion of how to display, print, modify and map your inventories is found in Chapter 7. The structures of all the databases that are maintained by HAZUS are found in Appendix G. A discussion of default databases is found in Chapter 3.5.



	Census Tract	RES	COM	IND	AGR	REL	GOV	EDU
1	37019020100	259,639	37,494	25,454	408	7,190	2,004	1,317
2	37019020200	367,568	18,923	8,289	688	2,930	0	0
3	37019020301	464,605	53,122	3,904	358	2,611	743	233
4	37019020302	750,629	25,943	2,741	0	1,271	0	96
5	37019020401	282,468	38,171	2,616	433	2,652	111	1,132
6	37019020402	485,177	6,648	2,044	0	801	0	0
7	37019020501	242,217	66,948	4,987	2,015	7,209	0	666
8	37019020502	440,108	48,480	5,564	3,030	4,618	456	0
9	37019020503	705,282	14,673	1,748	43	1,243	0	0
10	37019020600	283,612	32,163	5,843	1,173	8,089	695	233

Figure 4.4. Value of General Building Stock Inventory.

4.4 Inventory Requirements

Each module in the hurricane loss estimation methodology requires a specific set of input data. The required data can take two forms. The first is inventory data such as the square footage of buildings of a specified type or the population in the study region. These are used to estimate the amount of exposure or potential damage in the region. The second data type includes characteristics of the local economy that are important in estimating losses (e.g., rental rates, construction costs or regional unemployment rates). This section summarizes the inventory information that is needed to perform a loss study.

Table 4.2 lists the inventory required for each type of output that is provided in the methodology. You will find that there are varying degrees of difficulty in developing this inventory. For example, in your region excellent records may be available concerning the police and fire stations and schools. On the other hand you may find that it is difficult to obtain detailed information about some of the lifeline facilities. An issue that you will likely run into is that data you collect will have to be adjusted so that the inventory is classified according to the systems defined in the methodology. In some cases, you may find that you require a consultant to assist with the classification of data. Default values are provided for most of the input information (see Chapter 3.5).

4.5 Relationship Between Building Types and Occupancy Classes

Since much of the inventory information that is available is based on the 33 specific occupancy classes, inferences must be made to convert occupancy class inventory to model building types. The relationship between model building type and occupancy class will vary on a regional basis. For example, in North Carolina, the default mapping of the RES1 (single-family dwelling) occupancy is 92% wood frame houses and 8% masonry houses (see Figure 4.5). Because the general building types defined in HAZUS are common across all three hazards, the relationship shown in Figure 4.5 applies to the Hurricane, Flood, and Earthquake Models.

Table 4.2. Minimum Inventory for the Hurricane Loss Estimation Methodology

Desired Output	Required Input
GENERAL BUILDING STOCK	
Damage to general building stock by occupancy or building type	Total square footage of each occupancy by census tract, occupancy to building type relationships
ESSENTIAL FACILITIES	
Damage and functionality of essential facilities	Location and building type of each facility
Loss of beds and estimated recovery time for hospitals	Number of beds at each facility
HIGH POTENTIAL LOSS FACILITIES	
Map of high potential loss facilities	Locations and types of facilities
TRANSPORTATION LIFELINES	
Map of transportation components	Locations and classes of components
UTILITY LIFELINES	
Map of utility components	Locations and classes of components
DIRECT SOCIAL LOSSES	
Number of displaced households	Number of households per census tract
Number of people requiring temporary shelter	Population including ethnicity, age, income
ECONOMIC LOSSES	
Cost of building repair or replacement	Cost per square foot to repair damage by structural type and occupancy for each level of damage
Loss of contents	Replacement value by occupancy
Business inventory damage or loss	Annual gross sales in $ per square foot
Relocation costs	Rental costs per month per square foot by occupancy
Business income loss	Income in $ per square foot per month by occupancy
Employee wage Loss	Wages in $ per square foot per month by occupancy
Loss of rental income	Rental costs per month per square foot by occupancy
Cost of damage to transportation components	Costs of repair/replacement of components
Cost of damage to utility components	Costs of repair/replacement of components

The relationship between specific building type and occupancy class also varies on a regional basis. For the example shown in Figure 4.6, the 63% of the wood frame buildings in the RES1 (single-family dwelling) specific occupancy category are mapped to the WSF1 (wood frame, single-family, one-story) specific building type and 37% are mapped to WSF2 (wood frame, single-family, two or more stories). Because the specific building types defined for each hazard are different, the relationship shown in Figure 4.6 applies only to the Hurricane Model.

Finally, the distribution of wind building characteristics within each specific building type also varies on a regional basis. For the example shown in Figure 4.7, the 19% of the WSF1 (wood frame, single-family, one-story) specific building types have hip-shaped roofs and 89% have gable roofs. Since the characteristics shown in Figure 4.7 apply to the specific building types defined for the Hurricane Model, the relationships do not effect the Flood or Earthquake Models.

General Building Type Mapping Scheme Distriution

Scheme Name: NC1

General Occupancy By General Building Type

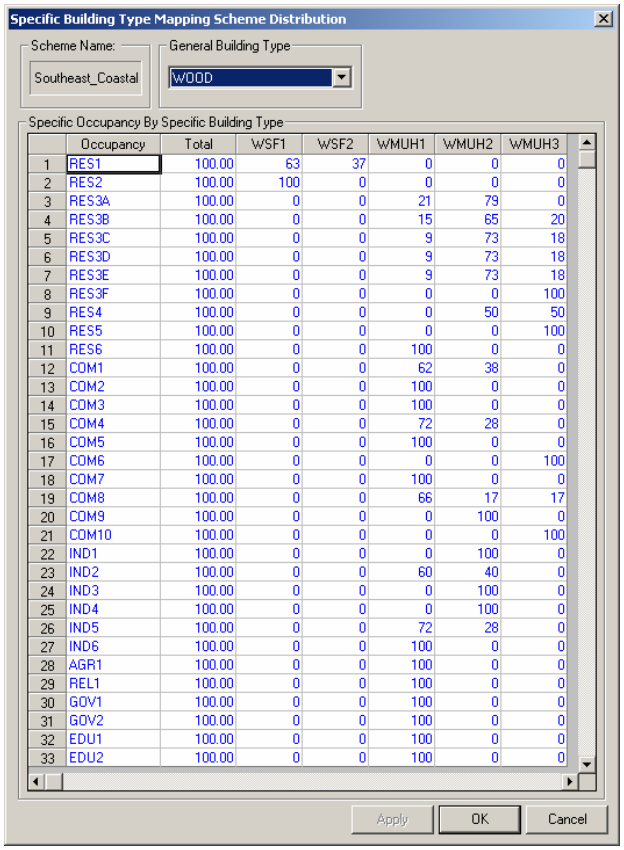
	Occupancy	Total	Wood	Masonry	Concrete	Steel	MH
1	RES1	100.00	92	8	0	0	0
2	RES2	100.00	0	0	0	0	100
3	RES3A	100.00	62	31	4	3	0
4	RES3B	100.00	62	31	4	3	0
5	RES3C	100.00	62	31	4	3	0
6	RES3D	100.00	62	31	4	3	0
7	RES3E	100.00	62	31	4	3	0
8	RES3F	100.00	62	31	4	3	0
9	RES4	100.00	48	21	18	13	0
10	RES5	100.00	7	34	40	19	0
11	RES6	100.00	22	31	20	27	0
12	COM1	100.00	14	23	7	56	0
13	COM2	100.00	10	24	7	59	0
14	COM3	100.00	25	40	7	28	0
15	COM4	100.00	26	33	9	32	0
16	COM5	100.00	13	30	12	45	0
17	COM6	100.00	2	18	25	55	0
18	COM7	100.00	24	28	8	40	0
19	COM8	100.00	19	21	7	53	0
20	COM9	100.00	5	17	15	63	0
21	COM10	100.00	0	2	73	25	0
22	IND1	100.00	5	19	16	60	0
23	IND2	100.00	10	28	12	50	0
24	IND3	100.00	7	18	10	65	0
25	IND4	100.00	7	18	7	68	0
26	IND5	100.00	5	12	16	67	0
27	IND6	100.00	10	19	11	60	0
28	AGR1	100.00	48	17	2	33	0
29	REL1	100.00	36	47	6	11	0
30	GOV1	100.00	7	19	12	62	0
31	GOV2	100.00	8	28	20	44	0
32	EDU1	100.00	13	32	12	43	0
33	EDU2	100.00	4	31	20	45	0

Apply OK Cancel

Figure 4.5. Default Mapping of Specific Occupancy to General Building Type for North Carolina.

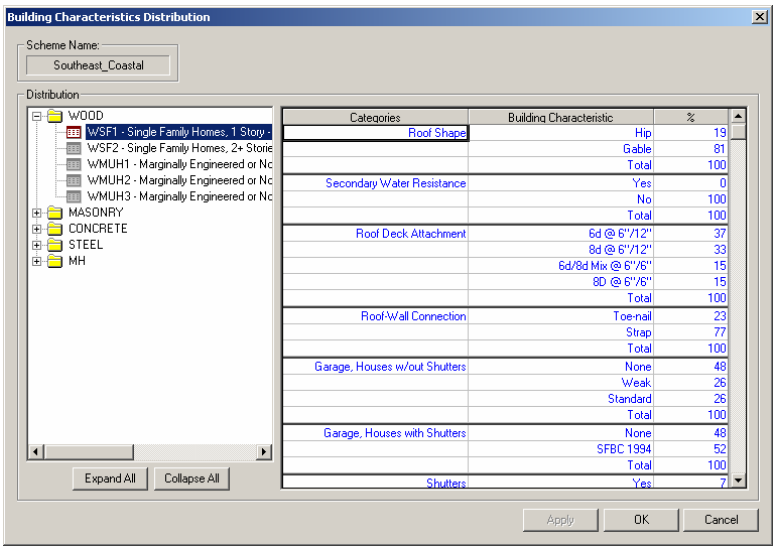
While the relationships shown in Figure 4.5 through Figure 4.7 can be developed from data collected locally, HAZUS provides default mappings of specific occupancy classes to model building types. Three general mapping schemes have been defined and assigned depending upon whether a state is in the Western U. S., the Mid-West or the Eastern U.S. Eight specific building type mappings and eight wind building characteristics mappings are provided for the 22 states covered by the present Hurricane Model. Four additional pairs of mappings are provided for Hawaii. It will be up to you to modify these defaults to reflect characteristics that are specific to your local region.

Modifying occupancy to model building type relationships is discussed in Chapter 7. Developing custom mapping schemes using local data and experts is discussed in Chapter 5. Developing mapping schemes using tax assessor or property records is discussed in Chapter 8.



	Occupancy	Total	WSF1	WSF2	WMUH1	WMUH2	WMUH3
1	RES1	100.00	63	37	0	0	0
2	RES2	100.00	100	0	0	0	0
3	RES3A	100.00	0	0	21	79	0
4	RES3B	100.00	0	0	15	65	20
5	RES3C	100.00	0	0	9	73	18
6	RES3D	100.00	0	0	9	73	18
7	RES3E	100.00	0	0	9	73	18
8	RES3F	100.00	0	0	0	0	100
9	RES4	100.00	0	0	0	50	50
10	RES5	100.00	0	0	0	0	100
11	RES6	100.00	0	0	100	0	0
12	COM1	100.00	0	0	62	38	0
13	COM2	100.00	0	0	100	0	0
14	COM3	100.00	0	0	100	0	0
15	COM4	100.00	0	0	72	28	0
16	COM5	100.00	0	0	100	0	0
17	COM6	100.00	0	0	0	0	100
18	COM7	100.00	0	0	100	0	0
19	COM8	100.00	0	0	66	17	17
20	COM9	100.00	0	0	0	100	0
21	COM10	100.00	0	0	0	0	100
22	IND1	100.00	0	0	0	100	0
23	IND2	100.00	0	0	60	40	0
24	IND3	100.00	0	0	0	100	0
25	IND4	100.00	0	0	0	100	0
26	IND5	100.00	0	0	72	28	0
27	IND6	100.00	0	0	100	0	0
28	AGR1	100.00	0	0	100	0	0
29	REL1	100.00	0	0	100	0	0
30	GOV1	100.00	0	0	100	0	0
31	GOV2	100.00	0	0	100	0	0
32	EDU1	100.00	0	0	100	0	0
33	EDU2	100.00	0	0	100	0	0

Figure 4.6. Default Mapping of Specific Occupancy to Specific Building Type for Wood Frame Buildings Located in the Coastal Counties of North Carolina.



Categories	Building Characteristic	%
Roof Shape	Hip	19
	Gable	81
	Total	100
Secondary Water Resistance	Yes	0
	No	100
	Total	100
Roof Deck Attachment	6d @ 6"/12"	37
	8d @ 6"/12"	33
	6d/8d Mix @ 6"/6"	15
	8D @ 6"/6"	15
	Total	100
Roof-Wall Connection	Toe-nail	23
	Strap	77
	Total	100
Garage, Houses w/out Shutters	None	48
	Weak	26
	Standard	26
	Total	100
Garage, Houses with Shutters	None	48
	SFBC 1994	52
	Total	100
Shutters	Yes	7

Figure 4.7. Default Distribution of Wind Building Characteristics for One-Story, Single-Family Wood Frame Houses (WSF1) Located in the Coastal Counties of North Carolina.

Chapter 5. Collecting Inventory Data

A limiting factor in performing a loss estimation study is the cost and quality of the inventory. Collection of inventory is without question the most costly part of performing the study. Crude estimates of damage do not require extensive inventory data and can be performed on a modest budget. As the damage estimates become more precise, the need for inventory information increases, as does the cost to obtain this information. Since many municipalities have limited budgets for performing loss estimation study, HAZUS accommodates different users with different levels of resources. It should be understood, however, that the uncertainty of the loss estimates increases with less detailed inventory, and that there are uncertainties associated with modules other than inventory. For example, even an accurate inventory of buildings and terrain in the study area, HAZUS or any other loss estimation methodology cannot infallibly predict damage and associated losses.

Inventory information will come from and/or be collected in databases compatible with the GIS technology. Once collected and entered into the database, the data will also be available to users for other applications, such as city planning.

5.1 Sources of Information

As discussed in Chapter 3, the use of default parameters and default inventory in performing a loss study introduces a great deal of uncertainty. Loss studies performed with only default data may be best for preliminary assessments to determine where more information is needed. For example, if the analysis using only default information suggests that hurricanes will cause a great deal of damage in a particular part of your community, you may want to collect more detailed inventory for that area to have a better understanding of the types of structures, the essential facilities and businesses that will be affected.

Regional building inventories can be built up from a variety of sources, including: federal government, state government, local government and private sector databases. These databases may be useful for obtaining facility-specific information. Following are examples of sources of inventory data that can be accessed to enhance the HAZUS building data:

- Locations of government facilities such as military installations and government offices
- Tax assessor's files
- School district or university system facilities
- Databases of fire stations or police stations
- Databases of historical buildings
- Databases of churches and other religious facilities

- Postal facilities (ATC-26, 1992)
- Hospitals (The AHA Guide of the American Hospital Association; ATC-23A, 1991)
- Public and private utility facility databases
- Department of transportation bridge inventory
- Dun and Bradstreet database of business establishments
- Insurance Services Office's files of large buildings that is used for fire assessment real estate databases

It should be kept in mind that each of these databases includes only a portion of the building stock, and none is complete. For example, the tax assessor's files do not include untaxed properties such as government buildings, public works and tax-exempt private properties. School district databases probably will not include private schools. A good discussion of available databases is found in ATC-13 (1985) and Vasudevan et al. (1992), although some of the databases discussed in these two references are specific to California.

Another possible source of inventory information is previous loss or hazard studies. Unfortunately many regional loss studies do not contain a listing (either hard copy or electronic) of the inventory that was used.

The following sections contain more detailed information about sources of information for specific modules of the Hurricane Model.

5.1.1 General Building Stock

Developing the inventory for general building stock most likely will require combining information from several sources. As mentioned earlier, there is no complete single source of general building stock information. In addition, you will find that the quality and format of the information varies dramatically from county to county. Furthermore, since general building stock inventory is not normally compiled by counting individual buildings, but instead is developed using various assumptions and inferences, you may find that you need input from local engineers and building officials to ensure that you have captured unique aspects of the region.

5.1.1.1 County Tax Assessor Files

County Tax Assessor files may or may not be a source of general building stock information. Since Tax Assessor files are kept for the purposes of collecting property taxes, they may contain little or no useful structural information. The quality of the data varies widely from county to county. The most useful data will contain occupancy, structural type, square footage, height, and age. Generally, the files contain good information on the use (occupancy) of the building, since tax rates often depend on building use; therefore, either a land use code and/or a specific occupancy of the building is included. Ideally, if good information is available, you can use the Building Data

Import Tool (BIT) described in Chapter 8 to develop region-specific occupancy to model building type relationships. However, several problems generally occur:

- Many Tax Assessor files do not contain building square footage information. In some counties, square footage is not recorded at all. In other cases, it is only sometimes recorded. You should ask the Tax Assessor before you buy the records as to what percentage of the records contain square footage information.
- Many Tax Assessor files contain square footage information that may be difficult to interpret. For example, a property that is owned by several owners (such as an office building) may appear several times in the files. Perhaps Owner #1 owns two floors of the building and Owner #2 owns eight floors. The Tax Assessor's records may not reflect the fact that Owner #1 owns 20% of the Building and Owner #2 owns 80%. In fact, sometimes both property entries will show the total building square footage instead of Owner #1 with 20% of the square footage and Owner #2 with 80%. Without going through the files record by record, this is difficult to fix.
- Since some occupants that do not pay taxes (e.g., schools, churches, and government buildings) are not usually well represented in the Tax Assessor's files. Often these types of properties include an entry and an Assessor's Parcel Number, but omit assessed value, square footage, structural type, height or age.
- Structural type may not be recorded at all in the files. You need to ask the Tax Assessor what percentage of the records has structural information before you buy the files.
- Similar comments about missing data can be made about age and height.
- Some or all of the properties in the Tax Assessor's files may contain no address information. In some counties, the Assessor's Parcel Number is the only identifier in the database. While this can be mapped to location, it is not an easy task. The file may contain a mailing address of the owner, but this is not a reliable address to locate properties. In other cases, selected properties are missing addresses. Address information is important because you can use addresses to see how the types and occupancies of buildings vary geographically.
- Perhaps one of the most difficult problems is that, in many cases, the Tax Assessors use a system of classifying structures that is difficult to map to the model building types defined in Appendices A and B. For example, there may only be five building types, such as steel frame, wood frame, fire resistant, masonry and other. It is difficult from this very simple classification system to determine whether masonry structures are reinforced or unreinforced. Fire resistant construction could include a variety of structural types consisting of concrete or masonry. In these cases you will need to use local experts to help define the mix of construction.

5.1.1.2 Commercial Sources of Property Data

There are a variety of on-line services that maintain databases of real property that are designed to assist realtors and other commercial enterprises in gathering property sales

data and owner information, and to assist in generating mailing lists and labels. The databases are developed from County Tax Assessor's files and updated as properties are sold or as other information becomes available.

You can subscribe to one of these services and download records over a telephone line, or you can order CDs of selected counties and use software supplied by the service to extract the records on your own computer. It seems that different services tend to focus their efforts in different parts of the United States. Therefore, one service may not maintain a database on the county you wish to study while another service may. Typical costs for a county are $300 to $1000, depending on its size. Addresses and phone numbers of several on-line services are listed below. (Note: While these are California addresses, they carry data from around the country. There may be local offices for these companies.) If one of these services does not have the counties in your study region you may find that there is a service in your own community that maintains these types of records. Local real estate agencies or the local Board of Realtors would probably know about this. Alternatively, you could try calling local Tax Assessors and see if they have sold their data to this type of service.

Some of the Commercial Sources of Property Data are:

Experian Property Data (formally known as TRW)
3610 Central Avenue
Riverside, CA 92506
(800) 345-7334

Transamerica Information Management (offer a program called MetroScan)
1860 Howe Avenue, Suite 455
Sacramento, CA 98525
(800) 866-2783

DataQuick Information Services
9171 Towne Centre Drive, #404
San Diego, CA 92122
(800) 950-9171

The commercially available databases contain the same type of problems found in the County Assessor's data since they were obtained from them. Perhaps one of the main advantages of the commercially available data is that you can get some technical support in trying to put the data into databases. The software they provide enables you to look at individual properties or to sort properties in a variety of ways such as by zip code, or by census tract, or by age, or by occupancy to name a few. On the other hand, assessor's data are often stored on 9-track tape and little instruction is provided about how to extract the data.

One note of caution: The software that commercial services provide is limited in that you cannot extract the entire county at once. You are limited to extracting a certain number of records (for example 9000) at a time. A large county such as Los Angeles contains over two million records. Thus extracting all of the records for the county can be a tedious task, sometimes taking several days.

5.1.2 Occupancy to Model Building Type Relationships

Developing occupancy to model building type mapping schemes that accurately reflect your study region will require combining available data with input from local experts. Collecting supplemental information about local building practices through the use of a questionnaire and/or a workshop is recommended.

5.1.3 Essential Facilities

Essential facilities, to a great degree, are owned or licensed by government agencies. Consequently, lists of these facilities often have been compiled for a region. Therefore, the time associated with collecting inventory on essential facilities may be relatively small; perhaps a day or two, if no building type information is collected and default occupancy to building type mappings are used. However, more detailed building type information may require a site visit for each facility. Some essential facilities are subject to special design and construction considerations that may help these structures perform better than the typical building when subjected to high winds.

5.1.3.1 Medical Care Facilities

Sources of inventory information for medical care facilities include the yellow pages of the telephone book, city and county emergency response offices, the American Hospital Association and previous loss studies. The default medical facilities database included with HAZUS was developed from a FEMA database and contains the number of beds for many of the facilities. Determining the number of beds for other facilities may require the user to contact facilities on an individual basis. In some cases, county guides, such as the McCormack Guides in California, provide a listing of all health care facilities, their addresses, phone numbers and the number of beds. The State Department of Public Health in California (and its equivalent in other states) licenses health care facilities and may publish a directory of licensed facilities.

5.1.3.2 Fire Stations, Police Stations and Emergency Operations Centers

Locations of fire stations, police stations and emergency operations centers can be obtained from city and county emergency response offices. In addition, many city maps show locations of police and fire stations.

5.1.3.3 Schools

Locations of public schools and their enrollments can be obtained from district offices. The Board of Education in some states compiles a directory of all schools (public and private) in the state with names, addresses, phone numbers and enrollments. The yellow pages of the phone book can be used as an initial listing. Regional governments may compile directories of local educational institutions (including colleges and universities).

5.1.4 User-Defined Facilities

User-defined facilities are those structures, other than essential facilities or high potential loss facilities, which the user may wish to analyze on a site-specific basis. For example, you may wish to identify all of the pharmacies in the community. You can collect data about these types of structures using the same sources you would use for general building stock or essential facilities, namely: specific databases that may be available to you through some agency, commercial sources of property data, the phone book, interviews with owners and site visits.

5.1.5 Demographics

Population statistics are used in estimating several different losses such as casualties, displaced households and shelter needs. Population location, as well as ethnicity, income level, age and home ownership is needed to make these estimates. The 2000 Census data are included with HAZUS. You may be able to obtain updated information from the Census Bureau or from a regional planning agency.

5.1.6 Direct Economic Loss Parameters

Direct economic losses begin with the cost of repair and replacement of damaged or destroyed buildings. However, building damage results in a number of consequential losses that are defined as direct economic losses. Thus, building-related direct economic losses (which are all expressed in dollars) comprise two groups. The first group consists of losses that are directly derived from building damage:

- Cost of repair and replacement of damaged and destroyed buildings
- Cost of damage to building contents
- Losses of building inventory (contents related to business activities)

The second group consists of losses that are related to the length of time the facility is non-operational (or the immediate economic consequences of damage):

- Relocation expense (for businesses and institutions)
- Capital-related income loss (a measure of the loss of services or sales)
- Wage loss (consistent with income loss)
- Rental income loss (to building owners)

5.1.6.1 County Business Patterns

County Business Patterns is an annual series published by the United States Census Bureau that presents state and county-level employment, annual payrolls, total number of establishments, and establishments by employee size. The data are tabulated by industry as defined by the Standard Industrial Classification (SIC) Code. Most economic divisions are covered, which include agricultural services, mining, construction, manufacturing, transportation, public utilities, wholesale trade, retail trade, finance, insurance, real estate and services.

The data generally represents the types of employment covered by the Federal Insurance Contributions Act (FICA). Data for employees of establishments totally exempt from FICA are excluded, such as self-employed persons, domestic service employees, railroad employees, agricultural production employees and most government employees.

County Business Patterns is the only complete source of sub-national data based on the four digit SIC system. The series, therefore, is useful in making basic economic studies of small areas (counties), for analyzing the industrial structure of regions, and as a benchmark for statistical series, surveys and other economic databases. The data can serve a variety of business uses as well as being used by government agencies for administration and planning.

County Business Patterns data are extracted from the Standard Statistical Establishment List, a file of known single- and multi-establishment companies maintained and updated by the Bureau of the Census every year. The Annual Company Organization provides individual establishment data for multi-location firms. Data for single-location firms are obtained from various programs conducted by the Census Bureau as well as from administrative records of the Internal Revenue Service (Census Bureau, 1991).

5.1.6.2 Means Square Foot Costs

The default replacement costs supplied with the methodology were derived from Means Square Foot Costs for Residential, Commercial, Industrial, and Institutional buildings. The Means publication (Means, 2005) is a nationally accepted reference on building construction costs, which is published annually. This publication provides cost information for a number of low-rise residential model buildings, and for 70 other residential, commercial, institutional and industrial buildings. These are presented in a format that shows typical costs for each model building, showing variations by size of building, type of building structure, and building enclosure. One of these variations is chosen as "typical" for this model, and a breakdown is provided that shows the cost and percentages of each building system or component. The methodology also allows the user to adjust costs for location of the structure (e.g., New York and Miami). A description of how to estimate costs from the Means publication is found in the *Flood Model Technical Manual*.

Selected Means models have been chosen from the more than 70 models that represent the 33 occupancy types. The wide range of costs shown, even for a single model, emphasize the importance of understanding that the dollar values shown should <u>only be used to represent costs of large aggregations</u> of building types. If costs for single buildings or small groups (such as a college campus) are desired for more detailed loss analysis, then local <u>building specific</u> cost estimates should be used.

5.1.6.3 Dun and Bradstreet

Dun and Bradstreet is an organization that tracks all businesses that are incorporated. Dun and Bradstreet maintains data on the type of business, the number of employees, the square footage of the business, the annual sales and a variety of other information. The

default square footage for the occupancy classes and for all the census tracts was created from the 2 and 4 digit (Standard Industrial Classification) SIC 2002 Dun and Bradstreet data. Dun and Bradstreet provides aggregated information for a specific region on total number of employees, total annual sales and total square footage by census tract. They can also provide information on specific businesses.

5.1.6.4 Capital-Related Income

The U.S. Department of Commerce's Bureau of Economic Analysis reports regional estimates of capital-related income by economic sector. Capital-related income per square foot of floor space can then be derived by dividing income by the floor space occupied by a specific sector. Income will vary considerably depending on regional economic conditions. Therefore, default values need to be adjusted for local conditions.

5.2 Collecting Inventory Data

It should be understood that many available databases do not contain all of the information that is needed to perform a loss study. For example, they may contain street addresses, the size of the facility, or the value of the facility, but may not contain information about structural type or age. Databases may be out of date and may not contain all of the facilities in the region. Another problem the user can encounter is that databases may be in a paper rather than electronic format, making them difficult or impossible to use. Combining multiple databases can also be problematic. Issues such as double counting facilities and eliminating unnecessary information need to be addressed.

In general, the majority of the building inventory used in the regional loss estimation will not be collected or kept on a facility-by-facility basis. Resource limitations make it difficult to collect such detailed information. Management and storage of such a large amount of information, while possible, is beyond the state-of-practice for many municipalities and government agencies. Maintaining facility-specific databases will be most useful for important or hazardous facilities such as hospitals, fire stations, emergency operation centers, facilities storing hazardous materials, and high occupancy facilities, to name a few. Procedures exist for supplementing facility-specific databases with area-specific inventory information. An example of an area specific inventory is the number of square feet of commercial space in a census tract or zip code. These area-specific inventories are often based on economic or land use information that is augmented using inference techniques. For example, the user may have available the number of commercial establishments in a region. Assuming an average size (in square feet) per establishment, the user can infer the total square footage of that occupancy. Similarly, a land use map may be converted to building square footage by multiplying land use area by percent of area covered by buildings.

Techniques for developing inventories include:

- Sidewalk/windshield surveys
- Analysis of land use data

- Analysis of aerial photography
- Discussions with local engineers and building officials

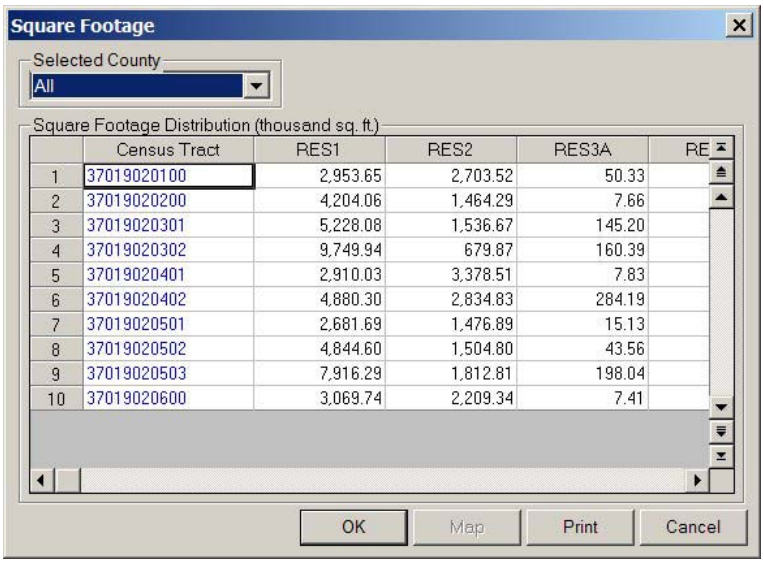
Development of sample survey forms or other examples of the above techniques was beyond the scope of the current version of the Hurricane Model. Please refer to the Earthquake *User Manual* to see comparable examples for earthquake hazards.

5.3 Inventory Menu Items

5.3.1 General Building Stock

5.3.1.1 Square Footage

The Square Footage browser allows you to view or modify the general building stock square footage by specific occupancy and census tract. The data in this browser are common to all three hazards.

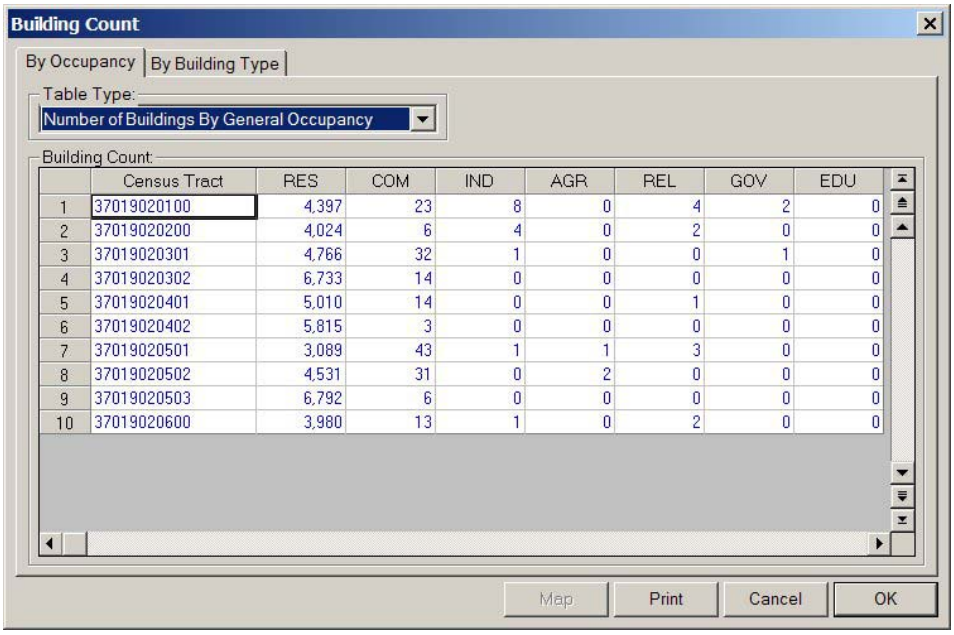


	Census Tract	RES1	RES2	RES3A	RE
1	37019020100	2,953.65	2,703.52	50.33	
2	37019020200	4,204.06	1,464.29	7.66	
3	37019020301	5,228.08	1,536.67	145.20	
4	37019020302	9,749.94	679.87	160.39	
5	37019020401	2,910.03	3,378.51	7.83	
6	37019020402	4,880.30	2,834.83	284.19	
7	37019020501	2,681.69	1,476.89	15.13	
8	37019020502	4,844.60	1,504.80	43.56	
9	37019020503	7,916.29	1,812.81	198.04	
10	37019020600	3,069.74	2,209.34	7.41	

Figure 5.1. Square Footage Browser.

5.3.1.2 Building Count

The Building Count browser allows you to view the general building stock count by census tract. When viewing the building counts by specific occupancy, you can modify the data. When viewed by general occupancy, general building type, or specific building type, the data are read-only. The data displayed in this browser are common to all three hazards (except when viewed by specific building type).

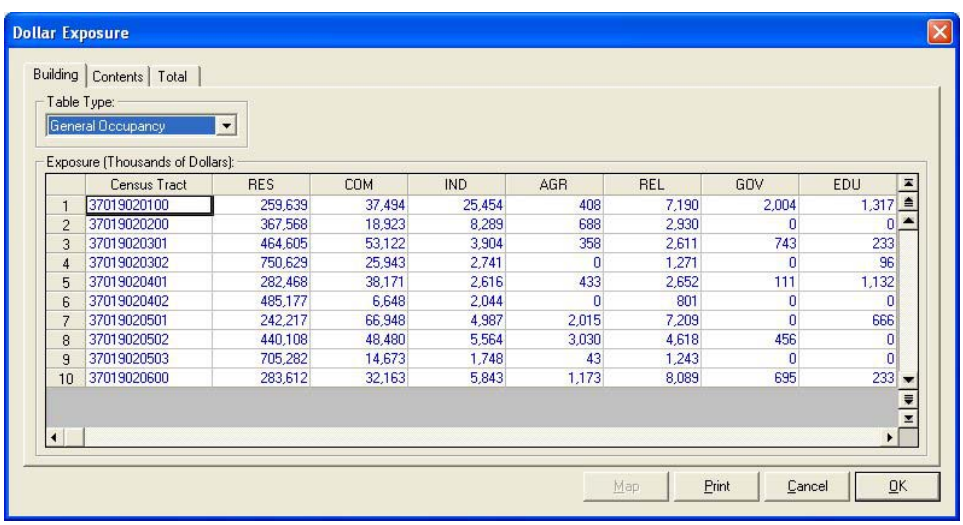


	Census Tract	RES	COM	IND	AGR	REL	GOV	EDU
1	37019020100	4,397	23	8	0	4	2	0
2	37019020200	4,024	6	4	0	2	0	0
3	37019020301	4,766	32	1	0	0	1	0
4	37019020302	6,733	14	0	0	0	0	0
5	37019020401	5,010	14	0	0	1	0	0
6	37019020402	5,815	3	0	0	0	0	0
7	37019020501	3,089	43	1	1	3	0	0
8	37019020502	4,531	31	0	2	0	0	0
9	37019020503	6,792	6	0	0	0	0	0
10	37019020600	3,980	13	1	0	2	0	0

Figure 5.2. Building Count Browser.

5.3.1.3 Dollar Exposure

The Dollar Exposure browser allows you to view the general building stock dollar exposure by census tract. When viewing the dollar exposures by specific occupancy, you can modify the data. When viewed by general occupancy, general building type, or specific building type, the data are read-only. The data displayed in this browser are common to all three hazards (except when viewed by specific building type).



	Census Tract	RES	COM	IND	AGR	REL	GOV	EDU
1	37019020100	259,639	37,494	25,454	408	7,190	2,004	1,317
2	37019020200	367,568	18,923	8,289	688	2,930	0	0
3	37019020301	464,605	53,122	3,904	358	2,611	743	233
4	37019020302	750,629	25,943	2,741	0	1,271	0	96
5	37019020401	282,468	38,171	2,616	433	2,652	111	1,132
6	37019020402	485,177	6,648	2,044	0	801	0	0
7	37019020501	242,217	66,948	4,987	2,015	7,209	0	666
8	37019020502	440,108	48,480	5,564	3,030	4,618	456	0
9	37019020503	705,282	14,673	1,748	43	1,243	0	0
10	37019020600	283,612	32,163	5,843	1,173	8,089	695	233

Figure 5.3. Dollar Exposure Browser.

5.3.2 Essential Facilities

Most of the essential facility inventory data is common to all three hazards. The only hazard-specific data is the specific building type, if that information is available.

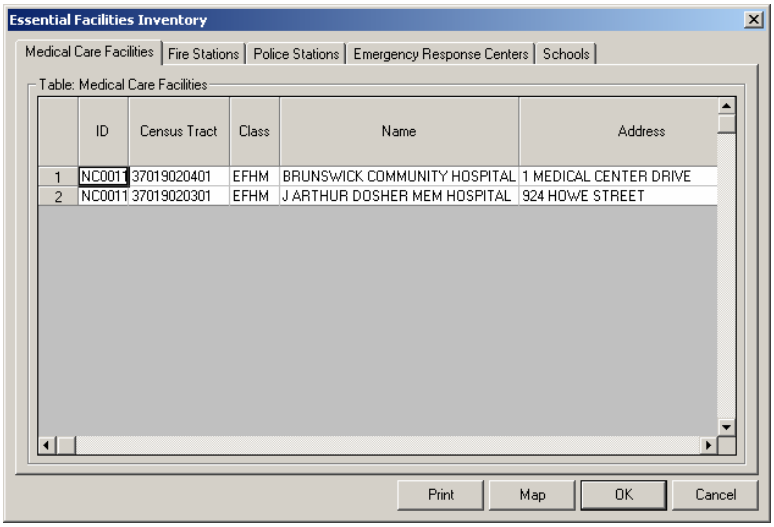


Figure 5.4. Essential Facilities Inventory Data Browser.

5.3.3 High Potential Loss Facilities

The High Potential Loss Facilities (HPLF) browser allows you to view and map the default database for your study region. Damage and loss are not computed for HPLF's in the present version of the Hurricane Model.

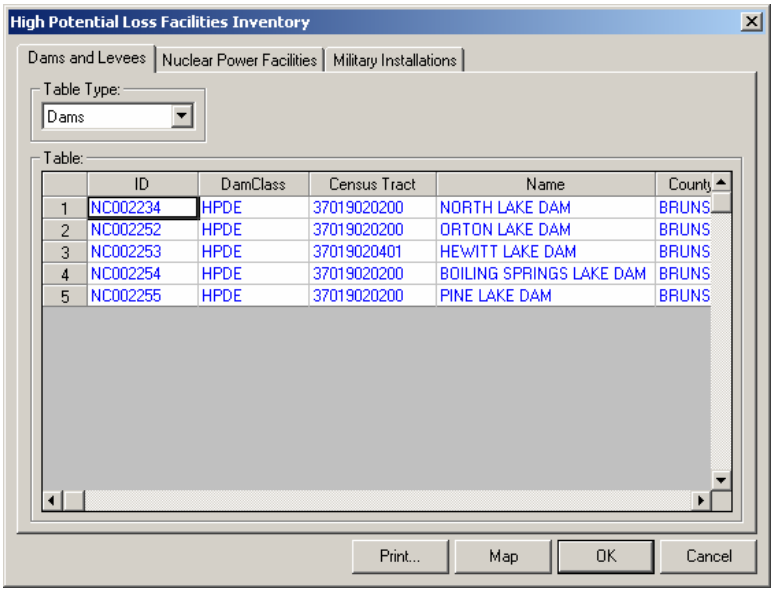


Figure 5.5. High Potential Loss Facilities Inventory Data Browser.

5.3.4 User-Defined Facilities

User-Defined Facilities (UDFs) are any individual buildings that you may wish to add to the study region. The Hurricane Model outputs damage state probabilities for each UDF.

UDFs default to the General Building Stock mapping schemes defined for the census tracts in which they are located. However, you can define a specific building type and a set of wind building characteristics if such information is available for an individual UDF.

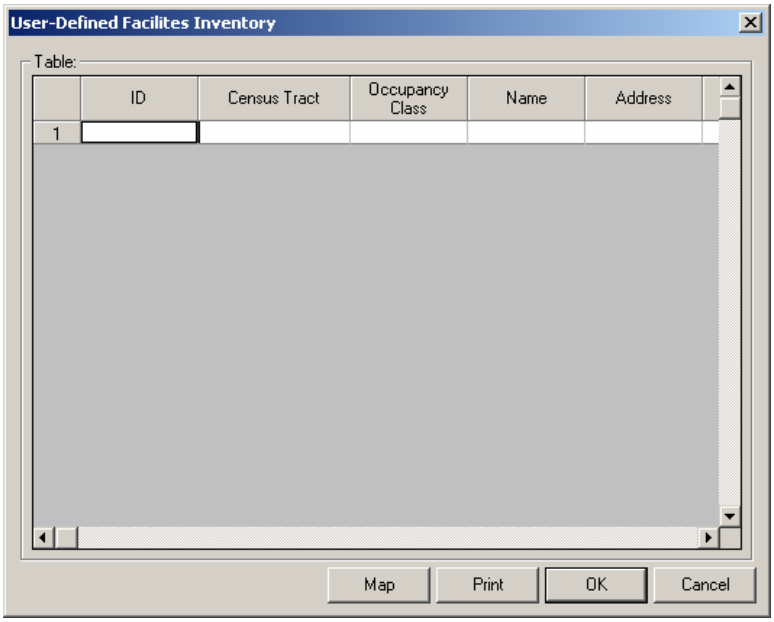


Figure 5.6. User-Defined Facilities Inventory Data Browser.

5.3.5 Transportation Systems

The Transportation Systems browser allows you to view and map the default database for your study region. Damage and loss are not computed for Transportation Systems in the present version of the Hurricane Model.

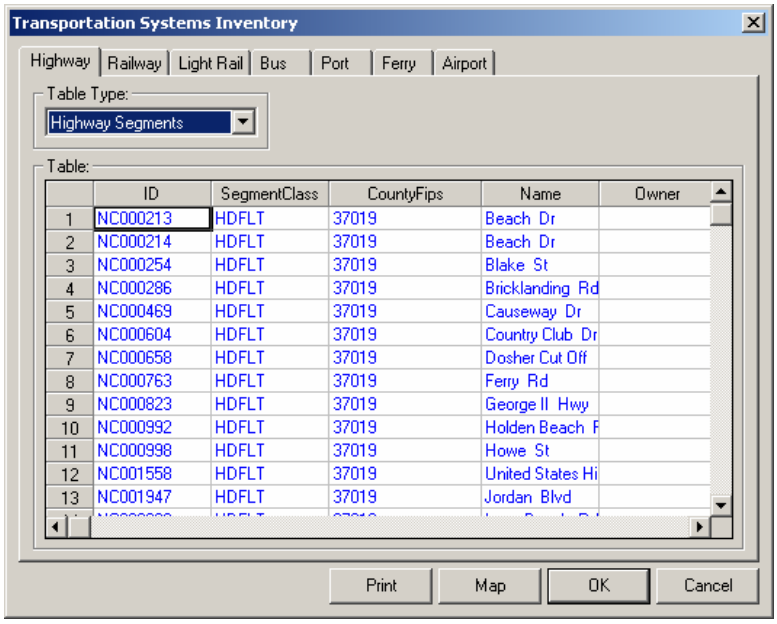


Figure 5.7. Transportation Systems Data Browser.

5.3.6 Utility Systems

The Utilities Systems browser allows you to view and map the default database for your study region. Damage and loss are not computed for Utilities Systems in the present version of the Hurricane Model.

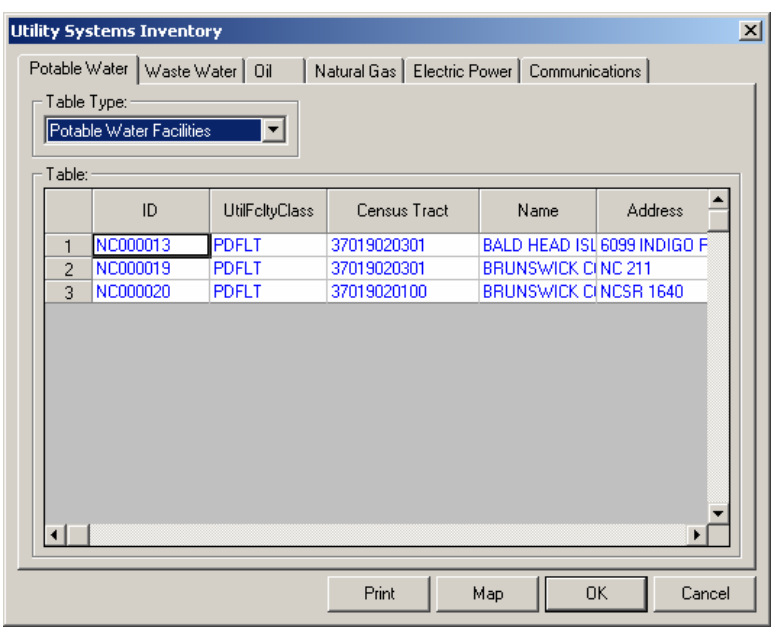
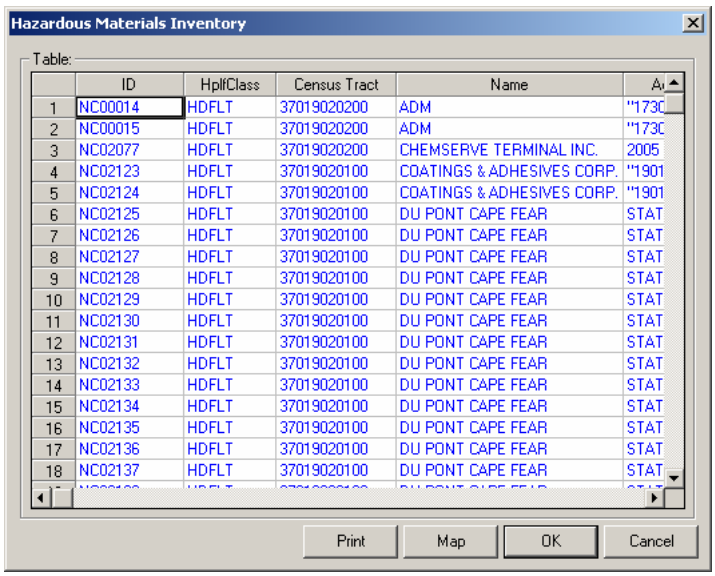


Figure 5.8. Utility Systems Data Browser.

5.3.7 Hazardous Materials

The Hazardous Materials browser allows you to view and map the default database for your study region. Damage and loss are not computed for Hazardous Materials sites in the present version of the Hurricane Model.

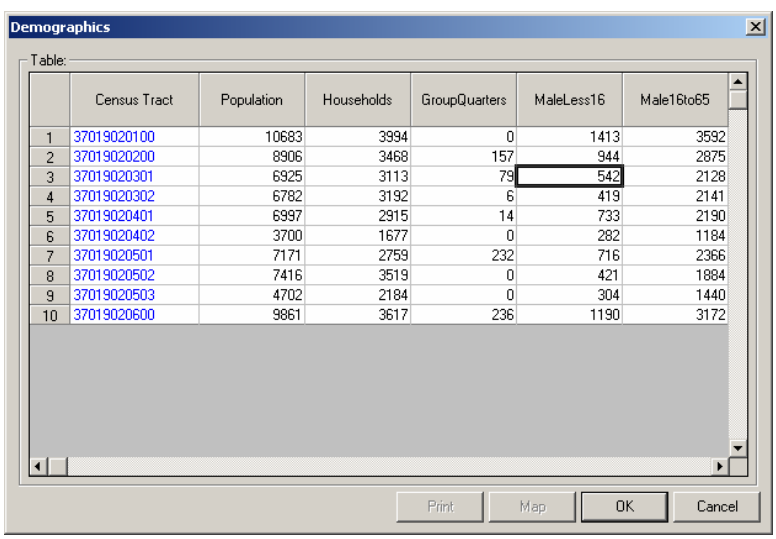


	ID	HplfClass	Census Tract	Name	A
1	NC00014	HDFLT	37019020200	ADM	"173C
2	NC00015	HDFLT	37019020200	ADM	"173C
3	NC02077	HDFLT	37019020200	CHEMSERVE TERMINAL INC.	2005
4	NC02123	HDFLT	37019020100	COATINGS & ADHESIVES CORP.	"1901
5	NC02124	HDFLT	37019020100	COATINGS & ADHESIVES CORP.	"1901
6	NC02125	HDFLT	37019020100	DU PONT CAPE FEAR	STAT
7	NC02126	HDFLT	37019020100	DU PONT CAPE FEAR	STAT
8	NC02127	HDFLT	37019020100	DU PONT CAPE FEAR	STAT
9	NC02128	HDFLT	37019020100	DU PONT CAPE FEAR	STAT
10	NC02129	HDFLT	37019020100	DU PONT CAPE FEAR	STAT
11	NC02130	HDFLT	37019020100	DU PONT CAPE FEAR	STAT
12	NC02131	HDFLT	37019020100	DU PONT CAPE FEAR	STAT
13	NC02132	HDFLT	37019020100	DU PONT CAPE FEAR	STAT
14	NC02133	HDFLT	37019020100	DU PONT CAPE FEAR	STAT
15	NC02134	HDFLT	37019020100	DU PONT CAPE FEAR	STAT
16	NC02135	HDFLT	37019020100	DU PONT CAPE FEAR	STAT
17	NC02136	HDFLT	37019020100	DU PONT CAPE FEAR	STAT
18	NC02137	HDFLT	37019020100	DU PONT CAPE FEAR	STAT

Figure 5.9. Hazardous Materials Data Browser.

5.3.8 Demographics

The Demographics browser allows you to view and map the default database for your study region. Demographics data are used in the shelter requirements methodology.

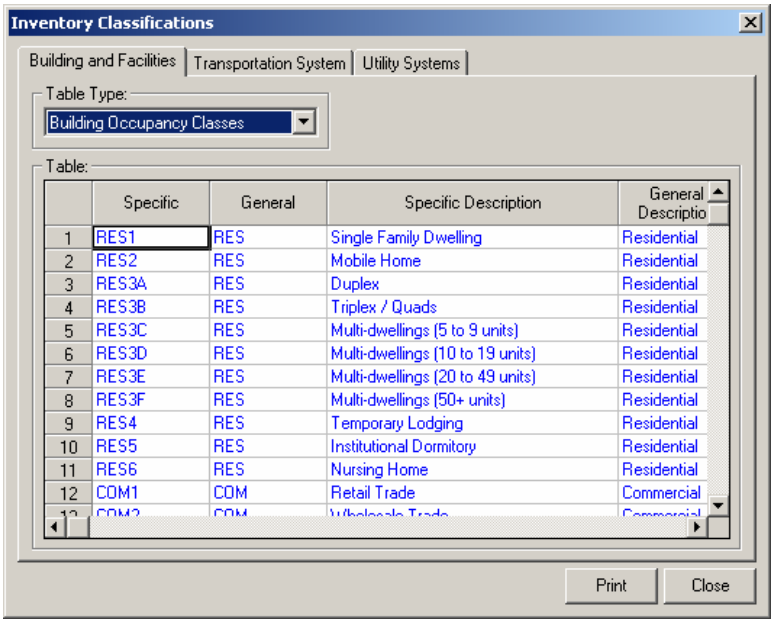


	Census Tract	Population	Households	GroupQuarters	MaleLess16	Male16to65
1	37019020100	10683	3994	0	1413	3592
2	37019020200	8906	3468	157	944	2875
3	37019020301	6925	3113	79	542	2128
4	37019020302	6782	3192	6	419	2141
5	37019020401	6997	2915	14	733	2190
6	37019020402	3700	1677	0	282	1184
7	37019020501	7171	2759	232	716	2366
8	37019020502	7416	3519	0	421	1884
9	37019020503	4702	2184	0	304	1440
10	37019020600	9861	3617	236	1190	3172

Figure 5.10. Demographics Data Browser.

5.3.9 View Classification

The View Classification browser allows you to view definitions of the classification categories.



	Specific	General	Specific Description	General Descriptio
1	RES1	RES	Single Family Dwelling	Residential
2	RES2	RES	Mobile Home	Residential
3	RES3A	RES	Duplex	Residential
4	RES3B	RES	Triplex / Quads	Residential
5	RES3C	RES	Multi-dwellings (5 to 9 units)	Residential
6	RES3D	RES	Multi-dwellings (10 to 19 units)	Residential
7	RES3E	RES	Multi-dwellings (20 to 49 units)	Residential
8	RES3F	RES	Multi-dwellings (50+ units)	Residential
9	RES4	RES	Temporary Lodging	Residential
10	RES5	RES	Institutional Dormitory	Residential
11	RES6	RES	Nursing Home	Residential
12	COM1	COM	Retail Trade	Commercial

Figure 5.11. View Classification Browser.

Chapter 6. Entering and Managing Data in HAZUS

HAZUS contains a variety of default parameters and databases. You can run a loss estimation analysis using only default data (Chapter 3), but your results will be subject to a great deal of uncertainty. If you wish to reduce the uncertainty associated with your results, you can augment or replace the default information with improved data collected for your region of study.

HAZUS contains two import tools for entering data: the stand-alone Building Information Tool (BIT) for improving general building stock (discussed in Chapter 8), and the Inventory import menu option for entering site-specific data (e.g., hospitals, schools). Data which have not been imported can still be used as overlays and for general spatial queries, but will not be treated in the loss estimation model.

As has been discussed in earlier sections, it is very likely that data obtained from different sources will not be in the same format. Furthermore, the data may contain a different number of fields than the data defined in HAZUS. This will require mapping the data fields to the correct format and inclusion in the centralized geodatabase. The following sections describe importing data, entering data through HAZUS windows, and managing the data.

6.1 Importing Features and Files

Only some offices and potential HAZUS users will have the most current version of GIS software; others will not currently use ESRI software. Those who have previously applied HAZUS-99 for Level II analysis will recognize the similarity of data field headers and inventory requirements. All operators of HAZUS will be starting with the newest default datasets; first to be evaluated, and then improved by directly editing the default inventories, or by importing new data files. Data that are not already formatted in GIS will require conversion to the standardized ESRI ArcGIS geodatabase format before importing.

6.1.1 Importing Site-Specific Data Files

Arcview shapefiles, ArcInfo coverage files, CAD files, image files, and tabular database files (e.g., Paradox, dBase) must be converted to a geodatabase (*.mdb) for use with HAZUS. Several file types (e.g., shapefile, drawing, tabular) may be converted to one or more geodatabases for import. MapInfo, Atlas, or other CAD file formats will generally require exporting files to a shapefile format in order to bring them into ArcGIS. Images or files designated for reference only can still be added as a simple layer for use in displays, and need not be imported. Data intended for consideration by the loss estimation model must be imported. ArcCatalog or ArcMap can be used for this purpose.

Select the inventory you wish to improve from the HAZUS Inventory menu. Right-click and choose "Import Data" (Figure 6.1). Enter the directory and filename for the database you wish to import.

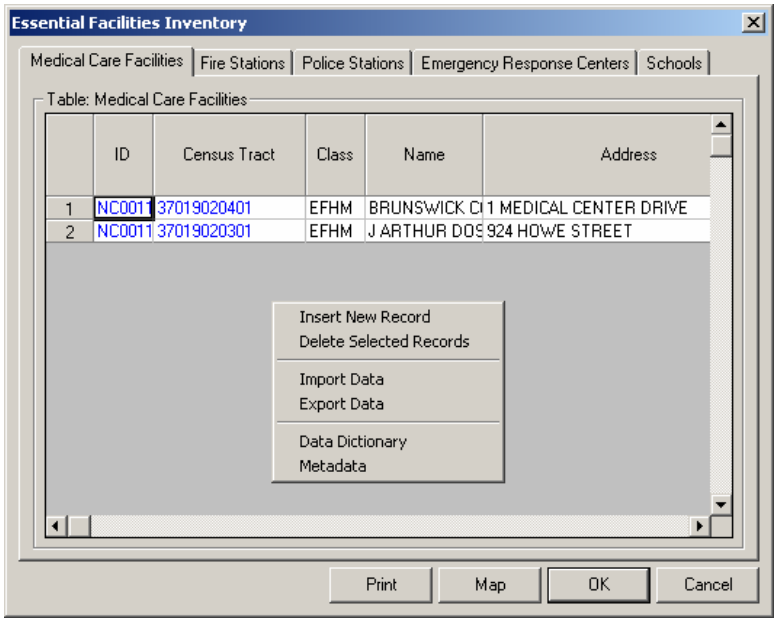


Figure 6.1. Import Features with Attributes.

6.1.2 The Import Database Utility

A database import utility has been developed to assist you in converting an electronic database to the appropriate format for HAZUS. The mapping window shown in Figure 6.2 is used to map the each field in your database (the source) to the corresponding field used in the HAZUS database (the target database). The Database Dictionary contains the names and structures of all of the databases that are used by HAZUS. From the Database Dictionary you can determine the names of the target fields. The Database Dictionary is available interactively in HAZUS. To access it, click on the right mouse button; using the same menu shown in Figure 6.1, click on **Dictionary**. An example from the Database Dictionary is shown in Figure 6.3.

The fields from the **Source** menu do not have to be in the same order nor do they have to have the same names as the fields in the **Target** menu. For example, in Figure 6.3, the year the school was built is in a field called "YEAR_BUILT" in the **Source** file, whereas the field that contains this information is in the "YEAR_B" field in the **Target** file. To define the desired mapping scheme, simply click on a field name from the **Source** menu (e.g., LON) and the corresponding field name from the **Target** menu (e.g., LONG); then click on the **Add** button.

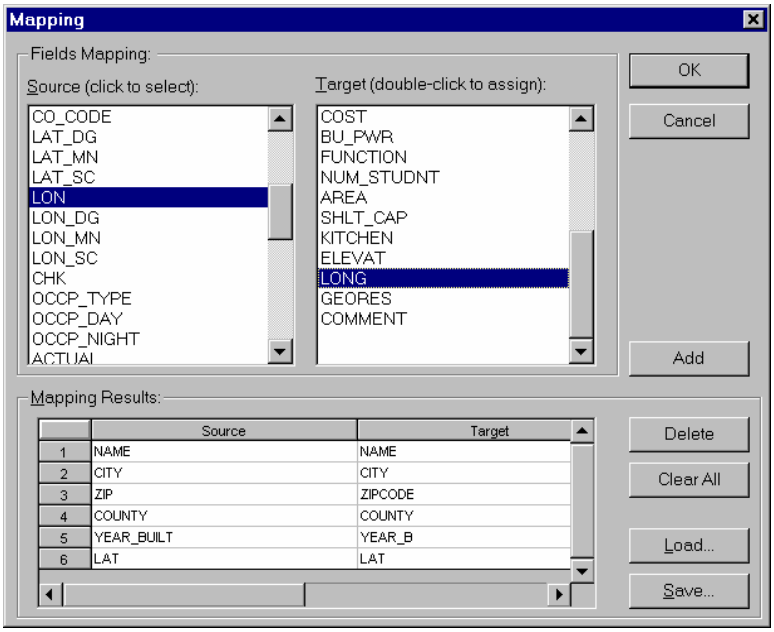


Figure 6.2. Mapping the Fields of Your Data File to the HAZUS Data Structure.

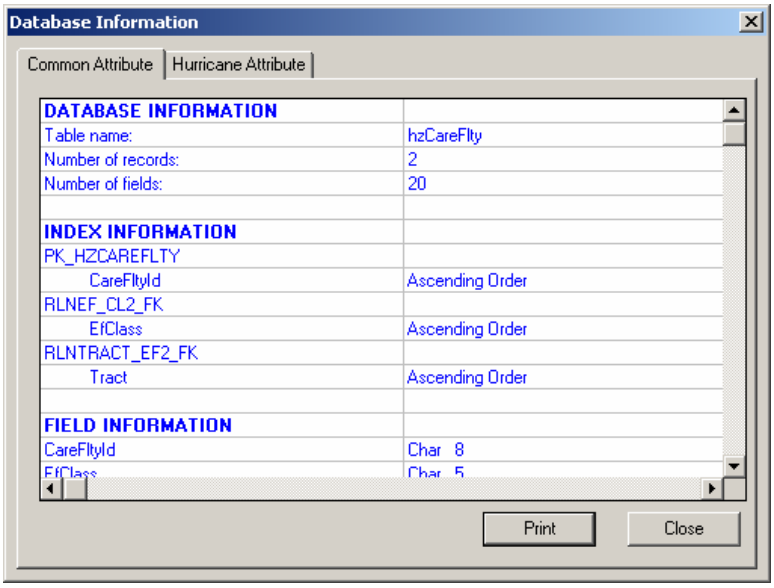


Figure 6.3. Interactive Database Dictionary.

After performing these steps, the mapping you have defined will disappear from the **Source** and **Target** menus and will appear in the **Mapping Results** box at the bottom of the window. If you make a mistake, click the **Delete** button, and the last mapping pair you have defined will be undone. In this example, the user has already defined six relationships and is in the process of defining a seventh. When you have completed defining all of the information, click on the **OK** button, wait a few seconds, and your imported database will be displayed in HAZUS. You do not have to map all of the fields

from the **Source** menu. However, any fields you do not map will not be imported into the **Target** database.

It is possible to have several databases with the same format. To save the mapping that you have defined so that it can be reapplied to other files, click the **Save** button in Figure 6.2 and the dialog box shown in Figure 6.4 will appear. Enter a name for the mapping scheme and click the **OK** button. To retrieve the saved mapping, click on the **Load** button in Figure 6.2.

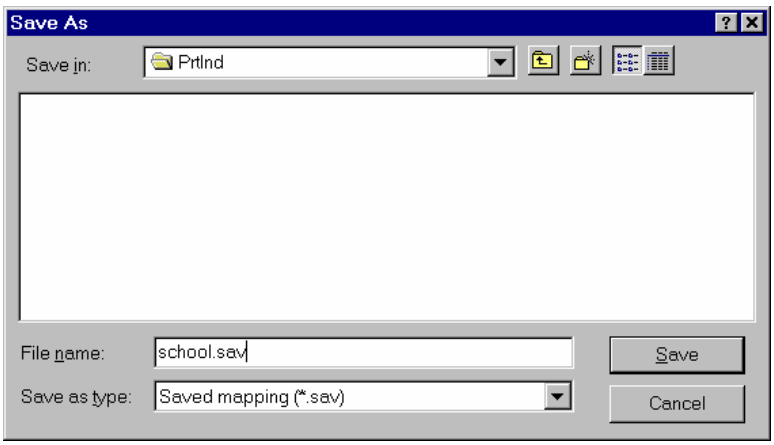


Figure 6.4. Saving a Database Mapping Scheme.

6.2 Adding Records to Site Specific Databases

In addition to importing entire datasets, you can add one or more site-specific (point) feature records at a time to improve inventories of essential facilities, high potential loss facilities, lifeline components and facilities storing hazardous materials. When you identify a new site, you will need to add a new feature record with attributes.

6.2.1 Adding Features Using the Study Region Map

You will notice that feature locations are listed in the ArcMap attribute table without the entire set of feature attributes. HAZUS stores attributes other than the each feature identifier and coordinates using SQL Server. This design for feature and attribute storage is for efficiency, and allows for anticipated expansion to interactive web-based delivery of the program. The database design requires you to add features in the following steps:

1. **Start Editing** using the ArcMap Editor toolbar.
2. Select the appropriate and available database (e.g., util.mdb for editing utility facilities).
3. Add features.
4. Save and Stop Editing features.
5. Open the Inventory menu and select the appropriate inventory (e.g., utilities).

6. Add attributes to each new feature record by placing the cursor in the desired field.

Note that the feature ID field cannot be edited.

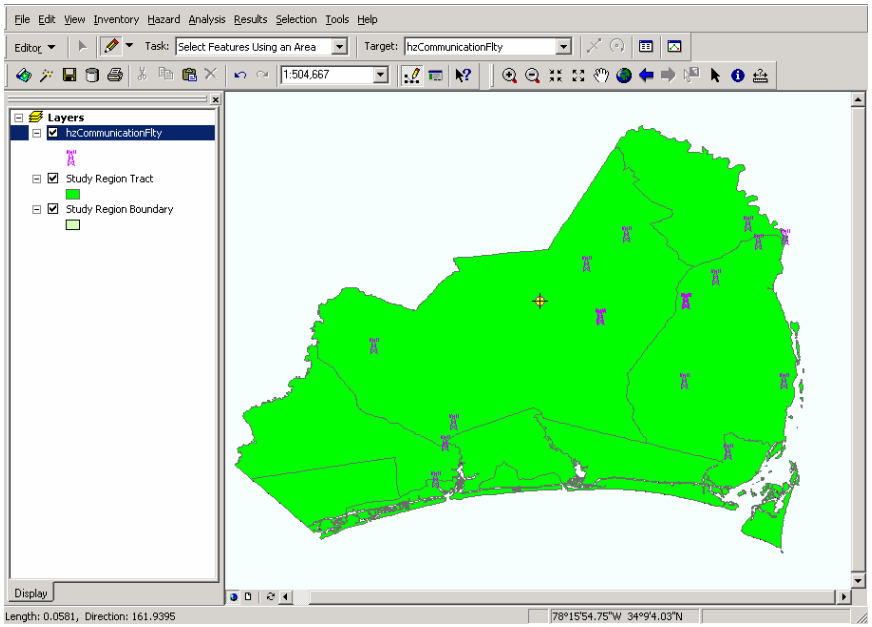


Figure 6.5. Add Site-Specific Feature.

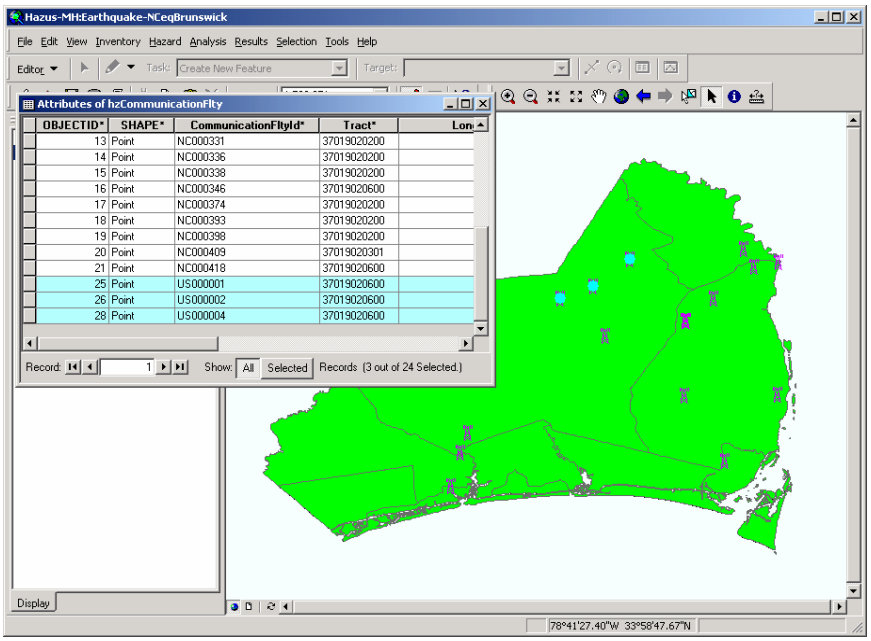


Figure 6.6. Add Feature Using ArcMap Edit Tool.

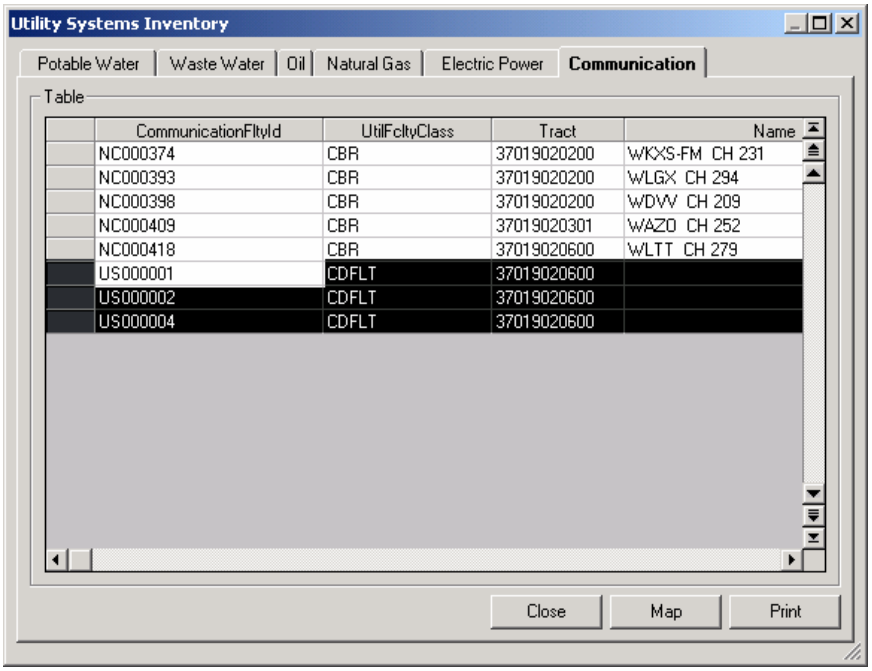


Figure 6.7. Add Attributes Under HAZUS Inventory Menu.

The site-specific, or facility inventories have many more data fields than are required for estimating potential losses. The additional information is beneficial to the overall analysis and cost-efficient to collect along with the minimum data required to run HAZUS. At minimum, the required fields for each database are specified in the Database Dictionary. ArcMap will automatically assign the first four data fields (indicated with a "*") when records are added graphically. The ID numbers are associated with a particular facility, and are required for reporting the study results.

6.2.2 Adding Records to the Attribute Table

The one essential datum element required to define a facility is its location. If its location was not added graphically (see Figure 6.5), the only other way to define a facility location in HAZUS is to type the longitude and latitude of the facility, as in Figure 6.8. If you don't know the longitude and latitude of the facility, you will need to use a geocoder[1] to get the longitude and latitude of the location and then add it to the database in HAZUS. Once you have defined a location, click on the **OK** button and the new point feature will be saved.

When the location has been entered, a default set of attributes will be assigned to each new record, in the event no other detail is available.

[1] The geocoding process is performed outside HAZUS. Any commercial geocoder application can be used.

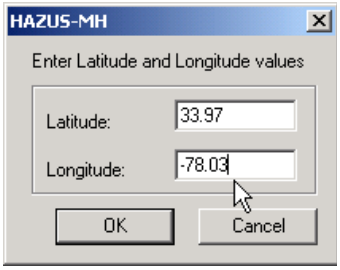


Figure 6.8. Add Record Latitude/Longitude Coordinates.

6.2.3 Errors When Adding Records

HAZUS is very strict about enforcing the rule that *all inventory data points must fall within the study region boundary*. If you define facility locations that are outside the study region, HAZUS deletes them and displays the dialog show in Figure 6.9.

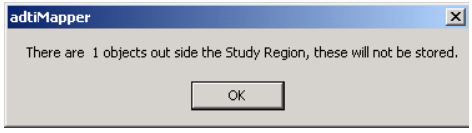


Figure 6.9. Sites Added Outside the Study Region will not be Accepted.

6.3 Deleting Records from Site Specific Databases

Select the record to be deleted from a database by clicking on the record marker on the left side of the record ID. When the records have been selected, use the right mouse button to display the database management options shown in Figure 6.10, and choose Delete Selected Records.

6.4 Editing Records

Attributes associated with default, or improved point and line features can be edited directly in HAZUS. Open the **Inventory** menu and choose the database to edit. Data within a record can be edited by right-clicking the mouse on the spreadsheet, placing the cursor in the desired cell, and replacing the text to be modified.

Alternatively, a structure's location can be moved by choosing **Start Editing** from the ArcMap **Editor** toolbar. In edit mode, use one of ArcMap's selection buttons to isolate the facility of interest. With your feature selected and mouse button held down, drag and drop the facility symbol from its old location to the desired new location. To delete a location, select the facility on the map and press the <**Delete**> key. The feature and all associated attributes in the inventory database will be deleted.

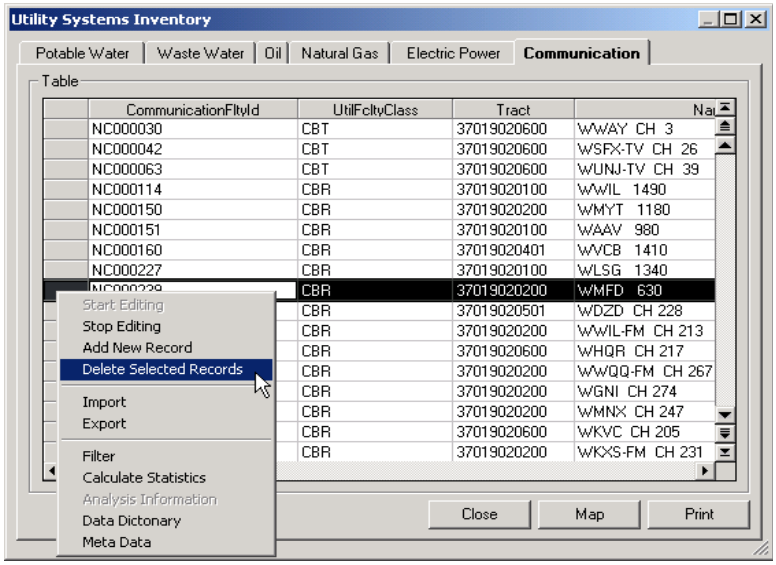


Figure 6.10. Select and Delete Records from a Facility Database.

You can move or delete multiple records at one time. To do so, use the ArcMap selection tools to select by location. You can draw a box around several sites to select a group; or, select a single structure by clicking on each location, one at a time, while holding the <**Shift**> key down. When all the locations have been selected, release the <**Shift**> key and follow the above steps for deleting or moving a record. When finished, click on the **Editor** toolbar and select **Stop Editing**. You will be asked to confirm (or dismiss) your changes to the database.

Chapter 7. Displaying and Modifying Inventories

Chapter 6 discussed how to enter data and import databases. Once your data is entered into HAZUS, you have a number of options available for displaying and modifying the data.

7.1 Editing a Database

Data within a database can be edited by clicking on the spreadsheet cell containing the data you want to change. Highlight the text you wish to replace, and your typing will replace the highlighted text.

7.2 Printing a Database

All databases can be printed using the **Print** button at the bottom of the window.

7.3 Mapping a Database

All databases can be mapped by using the **Map** button at the bottom of the window. ArcView tools can be used to modify legends and to bring different layers to the front. Entries in site-specific databases, such as emergency facilities and lifeline components, will appear as symbols on the map. Other types of databases, such as census data and general building stock inventory, are displayed as shaded map layers. Please refer to the ArcView User Manual for instructions on how to format map layers.

7.4 Defining Occupancy to Model Building Type Relationships

The hierarchy of model building mapping schemes use the Hurricane Model was presented in Section 4.5. In this section we cover the following related topics for the model building mapping schemes used in the Hurricane Model:

- How to assign a mapping scheme to a geographic area.
- How to view the details of a mapping scheme.
- How to edit, create, and delete mapping schemes.
- How to quickly create a wind building characteristics mapping scheme with mitigated buildings.

7.4.1 Defining Specific Occupancy to General Building Type Mapping Schemes

The General Building Occupancy Mapping dialog allows you to assign, view, or edit the distribution of general building types within each specific occupancy and census tract. The data in these dialogs are common to all three hazards; therefore, any changes made in these dialogs also apply to the Earthquake and Flood Models, if either of these hazards is included in your study region.

To access the General Building Occupancy Mapping dialog, shown in Figure 7.1, select the **Inventory | General Building Stock | General Building Type Mapping** menu command. This dialog allows you to assign general building type mapping schemes to your study region in the upper half of the window and manage your mapping schemes in the lower half of the dialog.

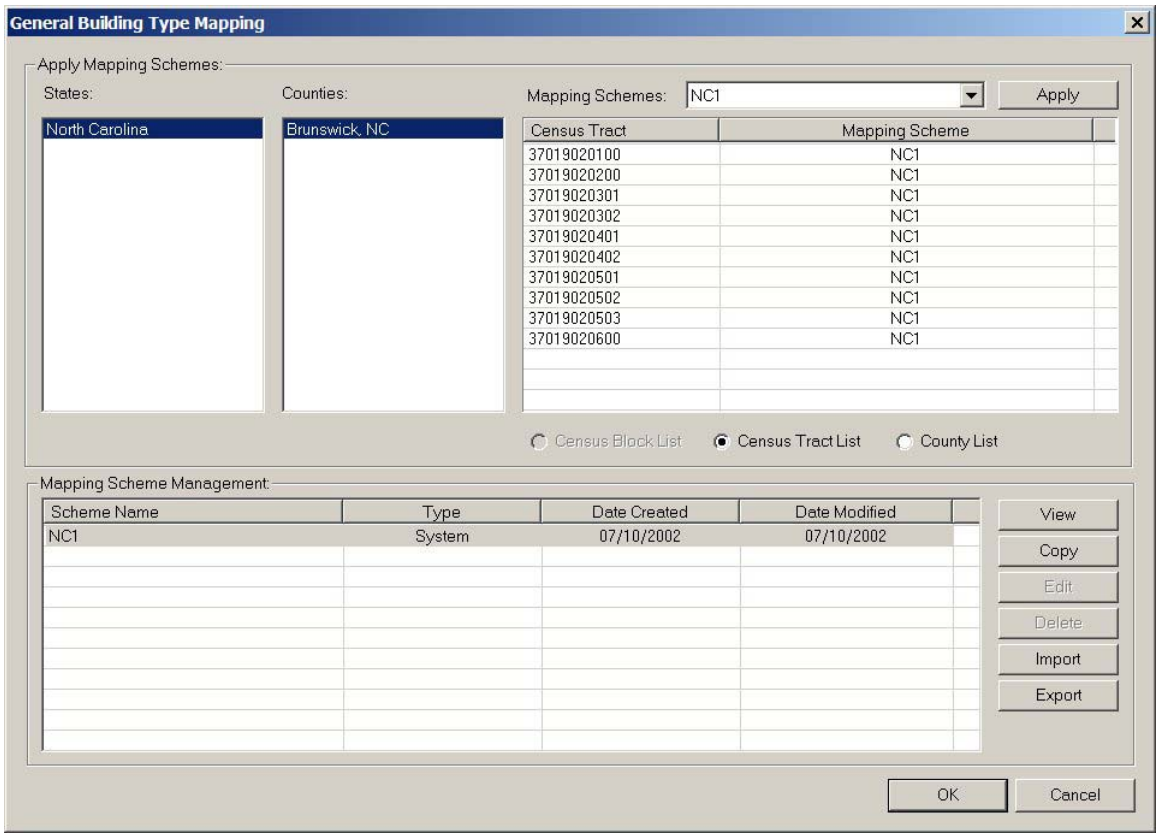
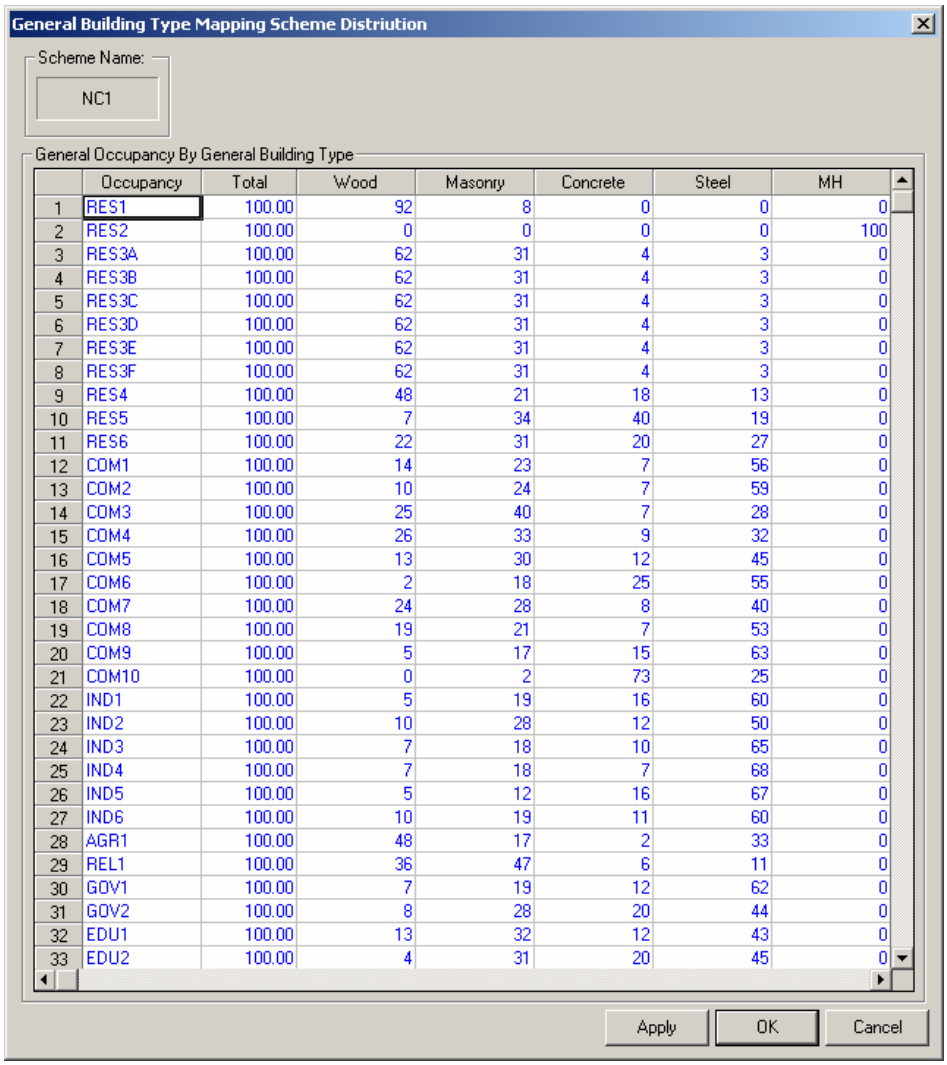


Figure 7.1. General Building Type Mapping Dialog.

General building type mapping schemes can be assigned at the state, county, or census tract level. Select one or more counties and click on *Census Track List* to see a listing of the individual census tracts in the selected states and counties. To change the mapping scheme assigned to one or more census tracts highlight the states, counties, and tracts of interest, select the desired mapping scheme from the drop down list box in the top right corner of the window, and click on the **Apply** button. When selecting multiple census tracts, use the Shift key to select a range of tracts or the Control key to select individual tracts.

The list box in the lower half of the General Building Occupancy Mapping dialog displays all of the mapping schemes that are available for use. The *Type* column indicates whether the mapping scheme is one of the default mapping schemes provided with the Hurricane Model ("*System*") or a custom mapping scheme ("*User*"). The highlighted mapping scheme can be displayed by clicking the **View** button (Figure 7.2). Other options include:



General Building Type Mapping Scheme Distriution

Scheme Name: NC1

General Occupancy By General Building Type

	Occupancy	Total	Wood	Masonry	Concrete	Steel	MH
1	RES1	100.00	92	8	0	0	0
2	RES2	100.00	0	0	0	0	100
3	RES3A	100.00	62	31	4	3	0
4	RES3B	100.00	62	31	4	3	0
5	RES3C	100.00	62	31	4	3	0
6	RES3D	100.00	62	31	4	3	0
7	RES3E	100.00	62	31	4	3	0
8	RES3F	100.00	62	31	4	3	0
9	RES4	100.00	48	21	18	13	0
10	RES5	100.00	7	34	40	19	0
11	RES6	100.00	22	31	20	27	0
12	COM1	100.00	14	23	7	56	0
13	COM2	100.00	10	24	7	59	0
14	COM3	100.00	25	40	7	28	0
15	COM4	100.00	26	33	9	32	0
16	COM5	100.00	13	30	12	45	0
17	COM6	100.00	2	18	25	55	0
18	COM7	100.00	24	28	8	40	0
19	COM8	100.00	19	21	7	53	0
20	COM9	100.00	5	17	15	63	0
21	COM10	100.00	0	2	73	25	0
22	IND1	100.00	5	19	16	60	0
23	IND2	100.00	10	28	12	50	0
24	IND3	100.00	7	18	10	65	0
25	IND4	100.00	7	18	7	68	0
26	IND5	100.00	5	12	16	67	0
27	IND6	100.00	10	19	11	60	0
28	AGR1	100.00	48	17	2	33	0
29	REL1	100.00	36	47	6	11	0
30	GOV1	100.00	7	19	12	62	0
31	GOV2	100.00	8	28	20	44	0
32	EDU1	100.00	13	32	12	43	0
33	EDU2	100.00	4	31	20	45	0

Apply OK Cancel

Figure 7.2. General Building Type Mapping Scheme Distribution Viewer.

- **Copy** – Creates a copy of the selected mapping scheme that you can modify.
- **Edit** – Allows you to modify the percentages in a mapping scheme. This option is disabled for *System* mapping schemes.
- **Delete** – Deletes the selected mapping scheme from the list. This option is disabled for *System* mapping schemes.
- **Import** – Allows you to import a mapping scheme exported from another hurricane study region.
- **Export** – Copies a mapping scheme to text file.

7.4.2 Defining Specific Building Type Mapping Schemes

The Specific Building Occupancy Mapping dialog allows you to assign, view, or edit the distribution of specific building types within each specific occupancy and census tract. The data in these dialogs are specific to the Hurricane Model.

To access the Specific Building Occupancy Mapping dialog, shown in Figure 7.3, select the **Inventory | General Building Stock | Specific Building Type Mapping** menu command. This dialog allows you to assign specific building type mapping schemes to your study region in the upper half of the window and manage your mapping schemes in the lower half of the dialog.

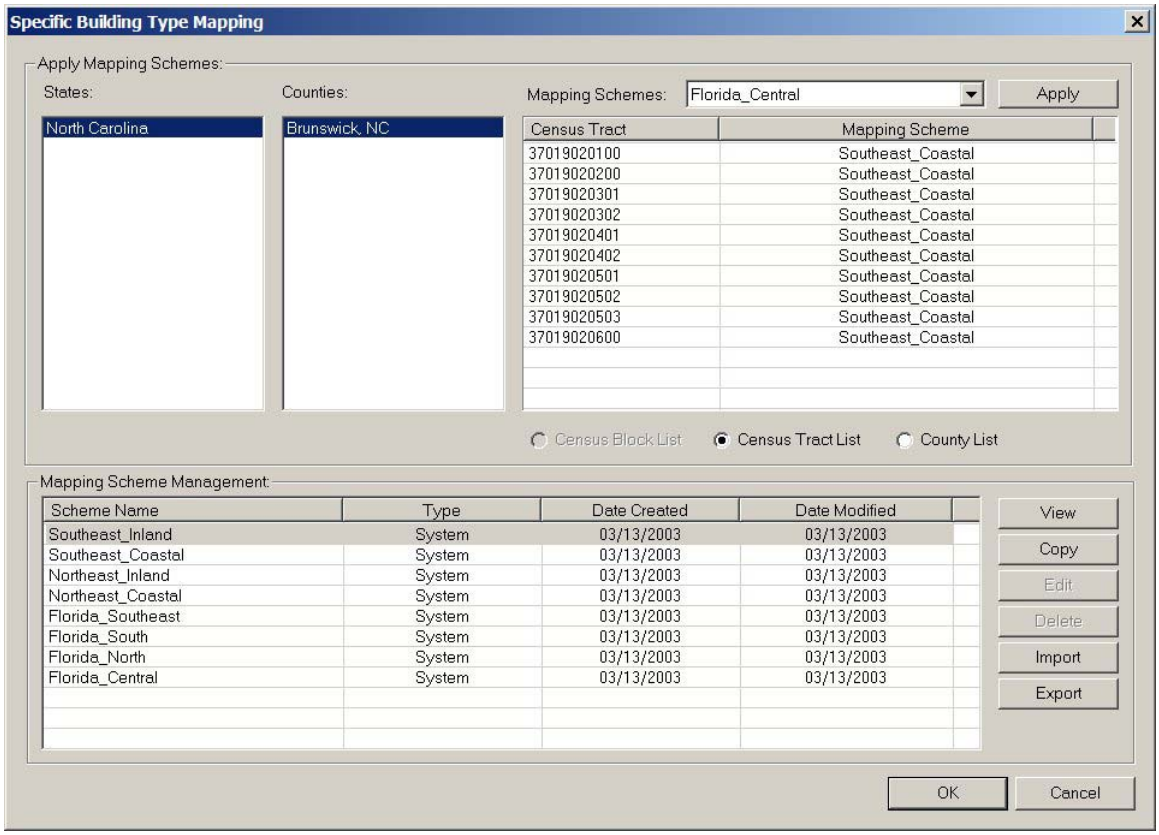
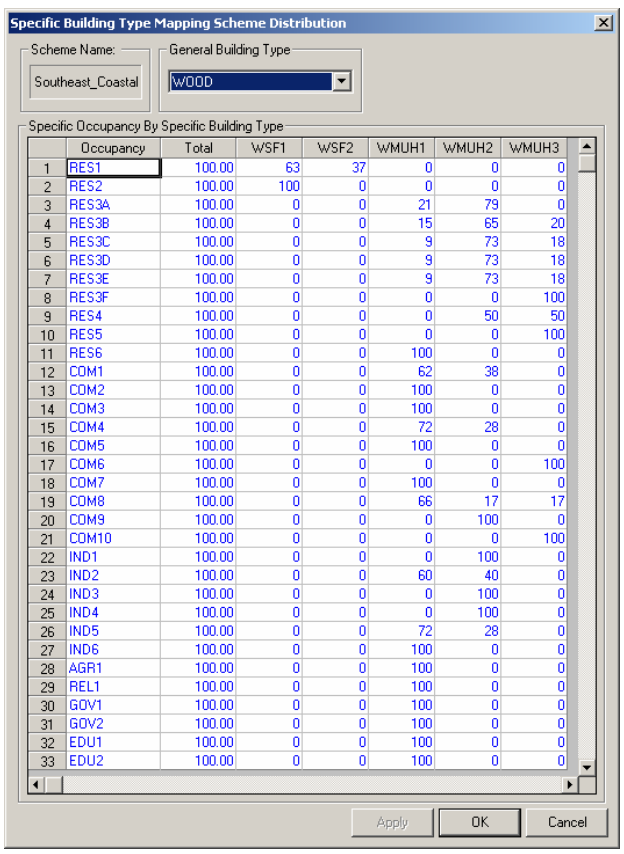


Figure 7.3. Specific Building Type Mapping Dialog.

Specific building type mapping schemes can be assigned at the state, county, or census tract level. Select one or more counties and click on *Census Track List* to see a listing of the individual census tracts in the selected states and counties. To change the mapping scheme assigned to one or more census tracts highlight the states, counties, and tracts of interest, select the desired mapping scheme from the drop down list box in the top right corner of the window, and click on the **Apply** button. When selecting multiple census tracts, use the Shift key to select a range of tracts or the Control key to select individual tracts.

The list box in the lower half of the Specific Building Occupancy Mapping dialog displays all of the mapping schemes that are available for use. The *Type* column indicates whether the mapping scheme is one of the default mapping schemes provided with the Hurricane Model (“*System*”) or a custom mapping scheme (“*User*”). The highlighted mapping scheme can be displayed by clicking the **View** button (Figure 7.4). Other options include:

- **Copy** – Creates a copy of the selected mapping scheme that you can modify.
- **Edit** – Allows you to modify the percentages in a mapping scheme. This option is disabled for *System* mapping schemes.
- **Delete** – Deletes the selected mapping scheme from the list. This option is disabled for *System* mapping schemes.
- **Import** – Allows you to import a mapping scheme exported from another study region.
- **Export** – Copies a mapping scheme to text file.



	Occupancy	Total	WSF1	WSF2	WMUH1	WMUH2	WMUH3
1	RES1	100.00	63	37	0	0	0
2	RES2	100.00	100	0	0	0	0
3	RES3A	100.00	0	0	21	79	0
4	RES3B	100.00	0	0	15	65	20
5	RES3C	100.00	0	0	9	73	18
6	RES3D	100.00	0	0	9	73	18
7	RES3E	100.00	0	0	9	73	18
8	RES3F	100.00	0	0	0	0	100
9	RES4	100.00	0	0	0	50	50
10	RES5	100.00	0	0	0	0	100
11	RES6	100.00	0	0	100	0	0
12	COM1	100.00	0	0	62	38	0
13	COM2	100.00	0	0	100	0	0
14	COM3	100.00	0	0	100	0	0
15	COM4	100.00	0	0	72	28	0
16	COM5	100.00	0	0	100	0	0
17	COM6	100.00	0	0	0	0	100
18	COM7	100.00	0	0	100	0	0
19	COM8	100.00	0	0	66	17	17
20	COM9	100.00	0	0	0	100	0
21	COM10	100.00	0	0	0	0	100
22	IND1	100.00	0	0	0	100	0
23	IND2	100.00	0	0	60	40	0
24	IND3	100.00	0	0	0	100	0
25	IND4	100.00	0	0	0	100	0
26	IND5	100.00	0	0	72	28	0
27	IND6	100.00	0	0	100	0	0
28	AGR1	100.00	0	0	100	0	0
29	REL1	100.00	0	0	100	0	0
30	GOV1	100.00	0	0	100	0	0
31	GOV2	100.00	0	0	100	0	0
32	EDU1	100.00	0	0	100	0	0
33	EDU2	100.00	0	0	100	0	0

Figure 7.4. Specific Building Type Mapping Scheme Distribution Viewer.

7.4.3 Defining Wind Building Characteristics Distributions

The Wind Building Characteristics Distribution dialogs allow you to assign, view, or edit the distribution of wind building characteristics within each specific building type and census tract. The data in these dialogs are specific to the Hurricane Model.

To access the Wind Building Characteristics Distribution dialog, shown in Figure 7.5, select the **Inventory | General Building Stock | Wind Building Characteristics Distribution** menu command. This dialog allows you to assign wind building characteristics mapping schemes to your study region in the upper half of the window and manage your mapping schemes in the lower half of the dialog.

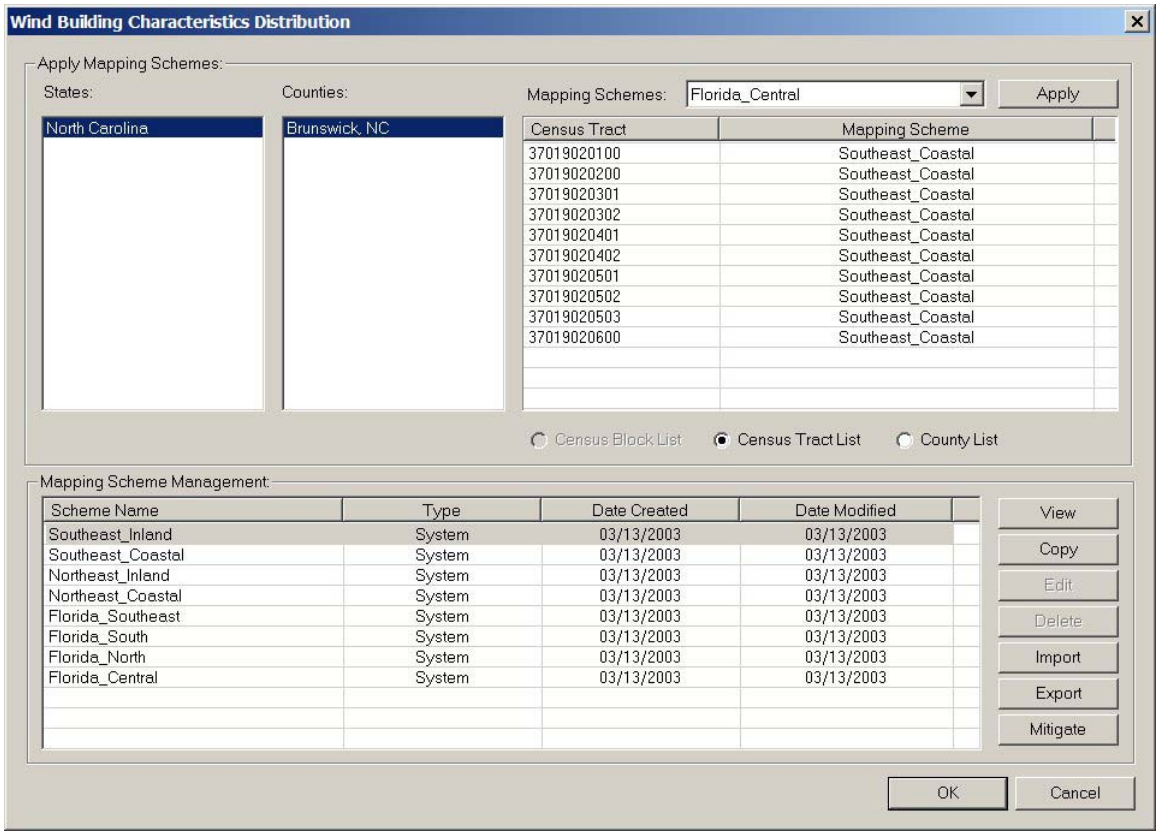


Figure 7.5. Wind Building Characteristics Distribution Dialog.

Wind building characteristics distributions can be assigned at the state, county, or census tract level. Select one or more counties and click on *Census Track List* to see a listing of the individual census tracts in the selected states and counties. To change the distribution assigned to one or more census tracts highlight the states, counties, and tracts of interest, select the desired distribution from the drop down list box in the top right corner of the window, and click on the **Apply** button. When selecting multiple census tracts, use the Shift key to select a range of tracts or the Control key to select individual tracts.

The list box in the lower half of the Wind Building Characteristics Distribution dialog displays all of the distributions that are available for use. The *Type* column indicates whether the distribution is one of the default distributions provided with the Hurricane Model ("*System*") or a custom distribution ("*User*"). The highlighted distribution can be displayed by clicking the **View** button (Figure 7.6). Other options include:

- **Copy** – Creates a copy of the selected distribution that you can modify.
- **Edit** – Allows you to modify the percentages in a distribution. This option is disabled for *System* distributions.
- **Delete** – Deletes the selected mapping scheme from the list. This option is disabled for *System* distributions.
- **Import** – Allows you to import a distribution exported from another study region.
- **Export** – Copies a distribution to a text file.
- **Mitigate** – Allows you to quickly create a new distribution with different mitigation characteristics for single-family housing, manufactured homes, and multi-unit housing (see Section 7.4.4).

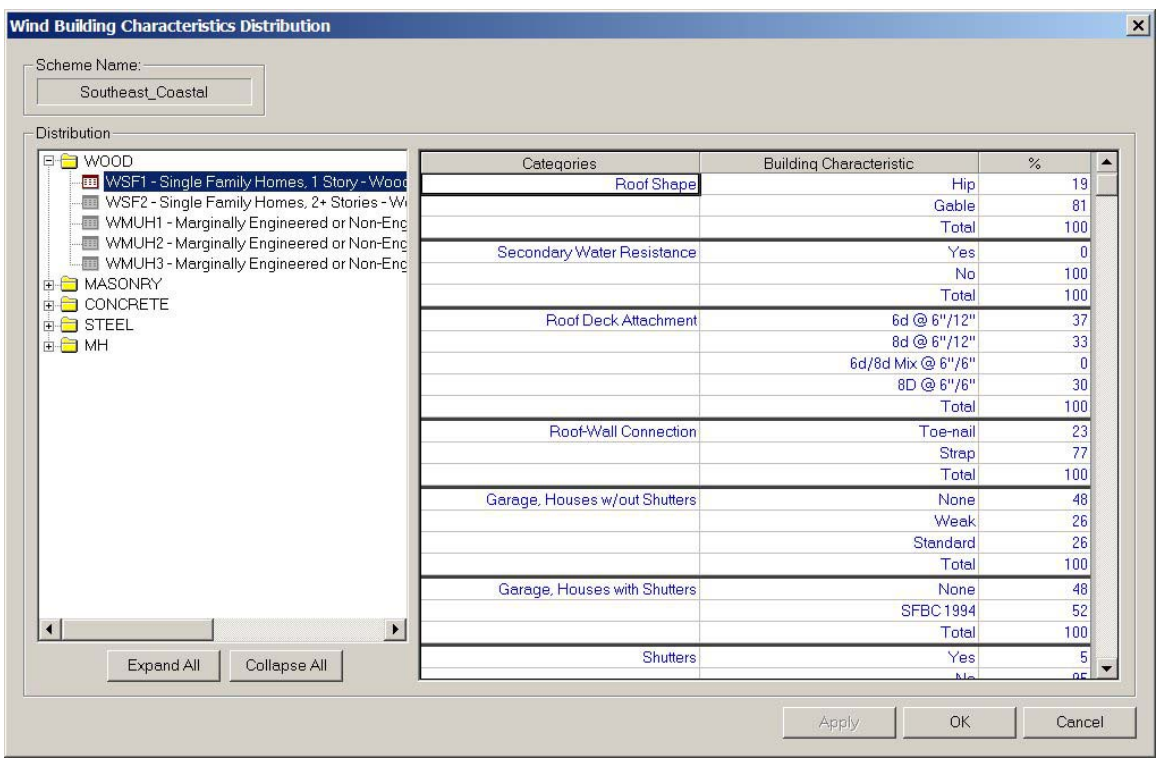


Figure 7.6. Wind Building Characteristics Distribution Viewer.

7.4.4 Applying Mitigation to the General Building Stock

The Hurricane Model includes mitigation options for single-family housing, multi-unit housing, commercial buildings, and industrial buildings. The mitigation analysis

capability provided in the Hurricane Model allows you to assess the potential benefits of mitigation programs or building code changes.

As an alternative to specifying the degrees of mitigation separately for each specific building type, the Hurricane Model has an option to quickly generate a new Wind Building Characteristics Distribution with mitigation. To access this capability, select a Wind Building Characteristics Distribution from the list in the lower portion of Figure 7.5 and then click on the **Mitigate** button in the lower right. The dialog shown in Figure 7.7 will appear. Simply name the new mapping scheme, check the types of mitigation you want applied to the general building stock, and fill-in the desired percentages for the checked items. Be sure to complete each of the four pages before clicking the **OK** button. The Hurricane Model will create a new mapping scheme with your specified levels of mitigation applied to the general building stock. Any items that are not checked will remain unchanged from the base Wind Building Characteristics Distribution. Remember to **Apply** the new distribution to the desired tracks or counties when you return to the Wind Building Characteristics Distribution dialog.

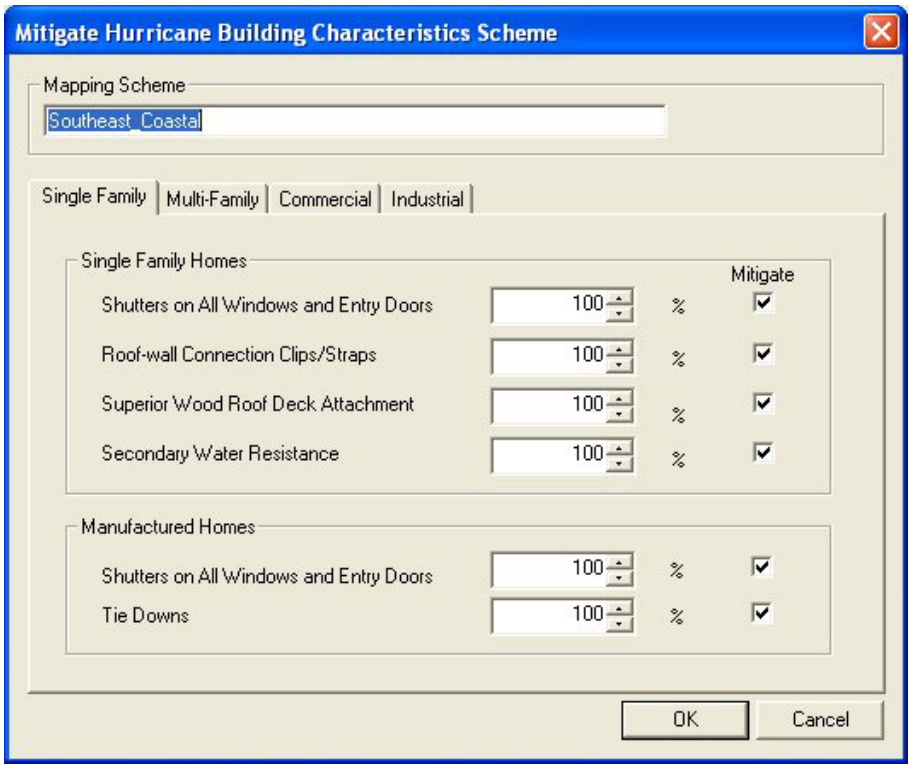


Figure 7.7. Mitigation Hurricane Building Characteristics Scheme.

Chapter 8. Building-Data Import Tool (BIT)

The building-data import tool (**BIT**) is a utility that is designed to help you import large databases of property information and to process that data so as to be able to create occupancy to model building type relationships. It can read a variety of different types of database formats and configurations and will translate these into a standard format for use by HAZUS. The **BIT** includes a utility that allows you to run queries on databases so that you can identify certain types of properties (e.g., unreinforced masonry) or gather information about buildings with certain characteristics.

8.1 Getting Your Data in the Right Format

Before you run **BIT** you need to ensure that your data is in a form that the program can process. For example, if you have purchased tax assessor's files on magnetic tape, you will have to have those tapes read and transferred to floppy disk or CD-ROM. You will need to convert your database to a Microsoft Acess (.mdb) format if it is in some other database format such as *.dbf, *.db, *.xls, etc. Another problem that can occur is that square foot building area is not reported as a single number but instead a sub-area is given for each floor or each portion of the building. In this case you will have to sum the individual sub-areas for each building and put the total building area in a single field. In the case of commercially available property data, you will need to extract the records from the database using software supplied by the vendor. Other problems you may encounter are appearance of properties more than once if they have multiple owners, or the reporting of multi-building complexes, and the use of two or three different occupancy definitions for a single property. All of these will require judgment on your part, and some of these problems will be very challenging.
BIT can only work with the following two types of files:

- Microsoft Access database (*.mdb)
- ASCII text file (*.asc). Any delimiter can be used (comma, tab, etc.)

If your database is not in one of these two formats, you will need to use an external database management program to convert your data into one of these formats.

The **BIT** can only import data from one county at a time. If your data file contains properties from multiple counties, you will need to use a database management program to sort the data by county and organize the data into separate files for each county.

8.2 Starting BIT

BIT can be launched in two ways: either from within HAZUS or stand-alone.

To launch **BIT** from within HAZUS, select the command **Inventory|General Building Stock|Building Import Tool (BIT).**

To launch **BIT** independent of HAZUS, select **Start|FEMA Risk Assessment System|BIT.** This location assumes that **BIT** was installed in the default group (**FEMA Risk Assessment System)**.

8.3 Specifying the Input File

After starting the **BIT**, you will be presented with the window shown in Figure 8.1. This window guides you through the five steps needed to develop the occupancy to model building type relationships for your region. The first step in the process is to specify the property data file you will be using. To start this step click on the **Specify Input File...** button.

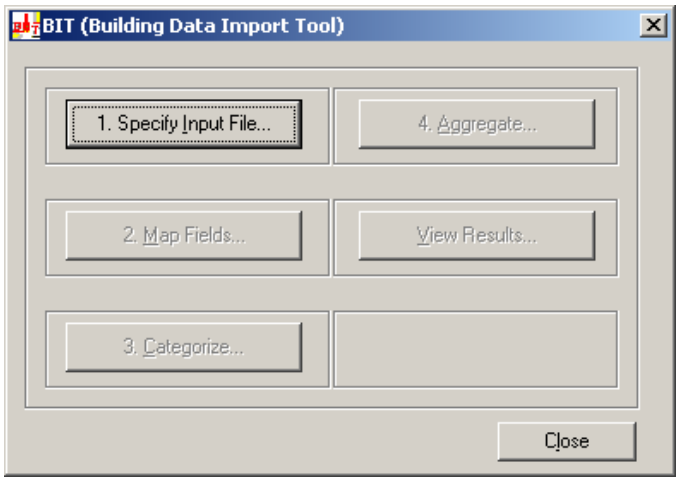


Figure 8.1. Building Data Import Tool Main Menu.

You will be asked to select an input file. You can choose from one of the three following options: ASCII text file (*.asc), Microsoft Access Table (*.mdb), configuration file (*.bcf). A configuration file is generated by the **BIT**, and is available only if you have started the import process previously, but did not complete all five steps. The *.bcf file allows you to continue an incomplete import activity without starting over from the beginning.

8.3.1 Importing an ASCII Delimited Database

After you click on the **Specify Input File...** button in Figure 8.1, you will be presented with the window shown in Figure 8.3. Suppose that the particular property data file that you want to import is an ASCII delimited file. A delimited file is one that uses a specific character to separate the fields of information. Delimited files come with a variety of different characters to separate the fields. The most common are the comma and the tab. However, the delimiter can be any character. An example of two records from an ASCII comma-delimited file is shown here:

```
"521-525 Main St","Anytown","94102-1102","121.00","Store
Building",4195,"1",2,"883263",16,"79","","880720","C","Concrete","Stucc
o","Concrete","Steel","Flat", "Built-up","","Average","$357",",","0284-
000"

"332 North St","Anytown","94102-
2607","125.00","Apartment",16030,"6",24,
"341314",23,"72","72","830404","C","Concrete","Concrete","Concrete","Co
ncrete",
"Flat","Tar & Gravel","","Fair","$17",",","0333-001"
```

Figure 8.2. Two Records from a Comma-Delimited Text File.

Each record shown in Figure 8.2 spans three lines and each field is separate by a comma. Quotes are used to indicate alphanumeric (text) data and entries without quotes are numbers. The **BIT** is capable of distinguishing these two types of inputs and it shouldn't cause you any problems when both types appear in the same record. It is important to understand that the **BIT** can recognize this file as ASCII delimited <u>only</u> if you specify the filename extension as .asc.

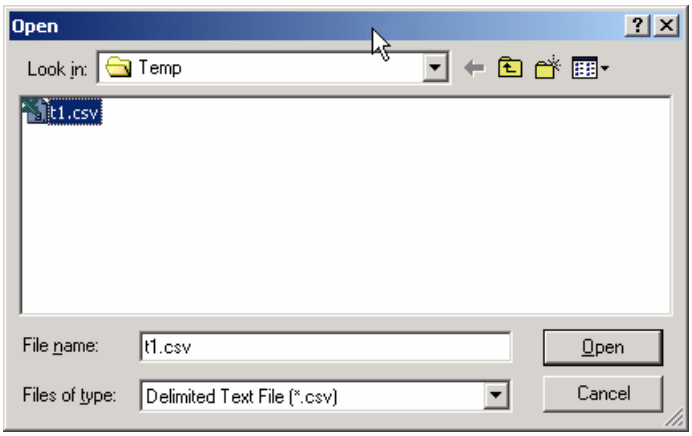


Figure 8.3. Specifying a *.csv Input File in the Building-Data Import (BIT) Tool.

After you have specified the file name in Figure 8.3, you will be asked to specify the type of delimiter that is being used as shown in Figure 8.4. If the delimiter is not a comma or a tab, click on **<u>O</u>ther** and then type the delimiter in the box to the right. The delimiter can be a single character such as a ' or a ? or a !. At the bottom of the Delimited ASCII Import window is a box entitled **Change default field <u>n</u>ames**. If you mark this box, you will be presented with the Field Names window shown in Figure 8.5.

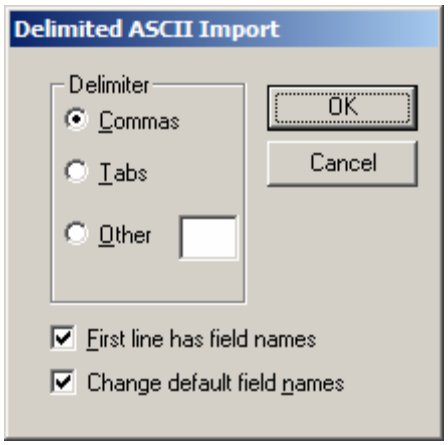


Figure 8.4. Specifying the Delimiters for an ASCII Delimited File.

Generally, an ASCII delimited file does not contain embedded field names. Thus when the ASCII delimited file is read by **BIT** the fields will be called Field001, Field002 and so on. The supplier of the data file should have provided you with documentation that indicates what is contained in each field. The Field Names window in Figure 8.5 allows you to rename the fields in your database so that they are easier to keep track of (this window is skipped if the option "Change default filed names" is not checked). To make a change, double click on the field name so that it is highlighted, then type in the new name. When you have changed the desired fields (you do not have to name all fields), click the **OK** button to save the changes. Optionally, you could embed the names of the fileds at the first line in the input file and make use of by checking the option "First line has field names". Once that is specified, the second option is enabled.

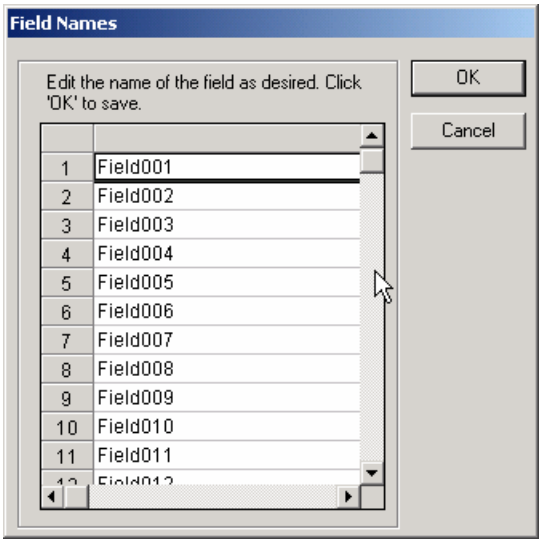


Figure 8.5. Changing the Field Names in an ASCII Delimited File.

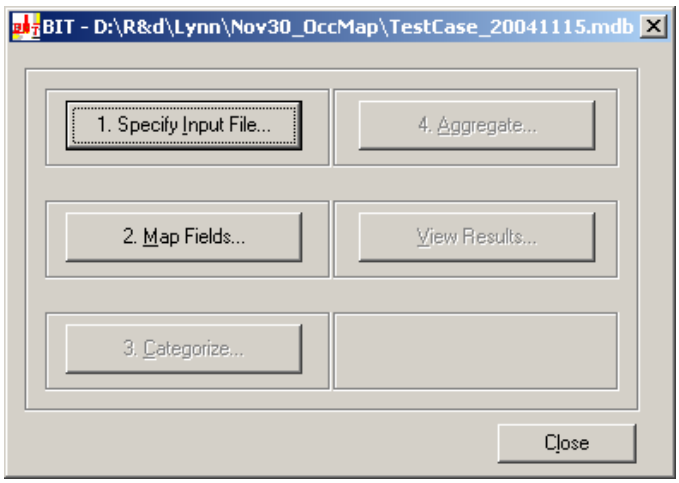


Figure 8.6. Task 2 "Mapping Fields" Enabled.

8.3.2 Importing a *.mdb Database

A file that is in an *.mdb format does not require some of the steps that are required for a text file. Simply specify the database file name as shown in Figure 8.7. You will then be presented with a list of tables in the database. Select the desired table to import and click **OK**, and you will be ready for mapping fields (see Section 8.4).

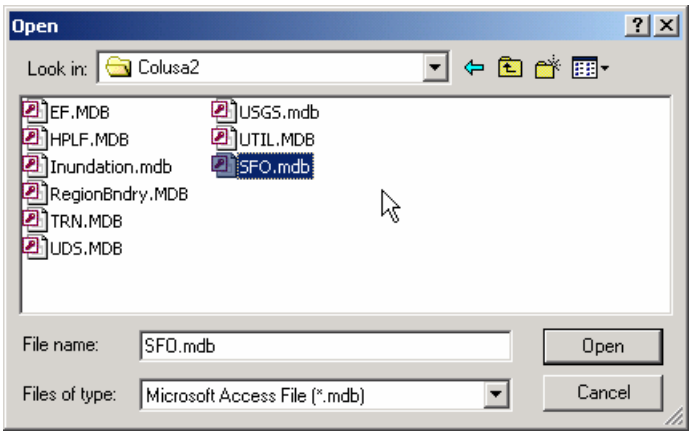


Figure 8.7. Specifying an *.mdb Input File in the Building-Data Import Tool.

8.4 Mapping Fields

After having specified the input file, you will need to map the fields in your database (the source) to the fields used in the HAZUS database (the target database). The steps for importing data and creating occupancy to model building type relationships must be completed in the numbered sequence. The labels for steps that are not yet available to you will appear in light gray. To start this step, click on the **Map Fields** button in the main **BIT** menu (see Figure 8.8).

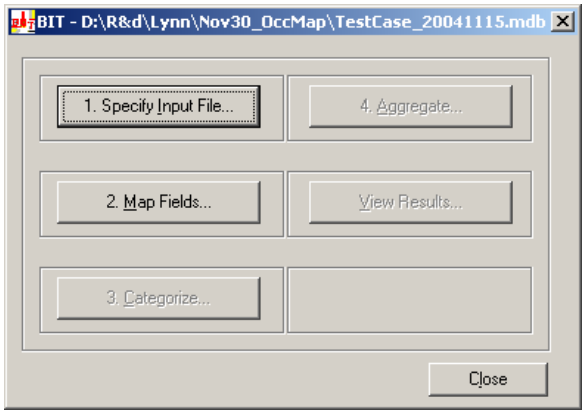


Figure 8.8. Starting the Field Mapping Step from the BIT Main Menu.

Since the **BIT** is used to develop occupancy to model building type relationships for your region, the most important information to capture is the occupancy, structural type, square footage and height of your buildings. However, the database you create can have as many fields as you want, allowing you to maintain many types of data. Using the mapping tool outlined in this section, you can be certain that all of the databases you maintain will be in a standard format.

The mapping window shown in Figure 8.9 is used to map the fields in your database (the source) to the fields used in HAZUS (the target database). The source-database fields do not have to be in the same order nor do they have to have the same names as the target-database fields. For example, in Figure 8.9 the occupancy types are in the field seventh field ("Field007") in the source database whereas the field that contains this information in the target database is called "Occupancy".

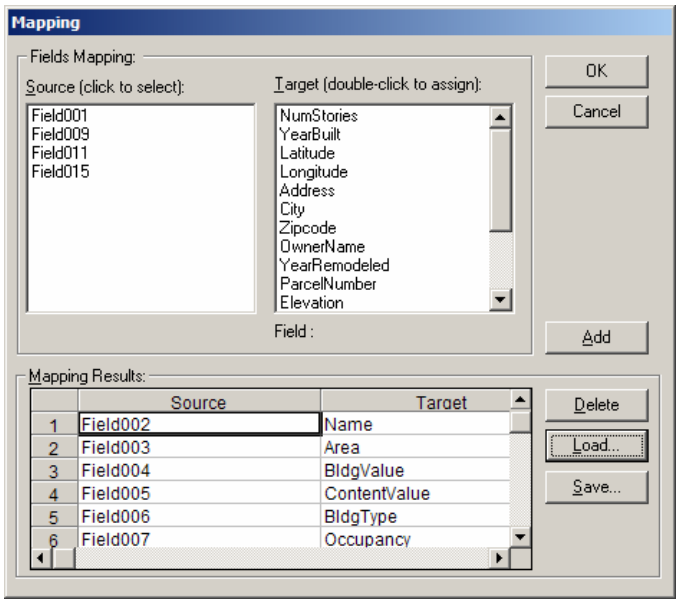


Figure 8.9. Defining a Mapping Scheme from the Source Database to the Target Database in the BIT.

To define the desired mapping, simply click on a field name in the source database (e.g. Field004) and the corresponding field name in the target database (e.g. BldgValue) and then click on the **Add** button. After each time you perform this operation the mapping you have defined will appear in the **Mapping Results** box at the bottom of the window. At the same time, these fields will disappear from the **Fields Mapping** box at the top of the window. If you make a mistake, click the **Delete** button and the last mapping pair you have defined will be undone. When you have completed mapping all of the fields, click on the **OK** button, wait a moment, and your database will be reconfigured into the standardized format. At the end of this step a table with the same name as your original file is created in the syBIT database in SQL Server. Your original file will remain unchanged. NOTE: You do not have to map all of the fields from the source database; however, any fields you do not map will not be imported into the target database. There are key fields that must be mapped without which you won't be able to proceed with the mapping. The **BIT** tool will prompt you with the key field (s) that you missed mapping once you try to click the OK button to move on to the next step. An example of this window is shown in Figure 8.10. Table 8.1 provides a complete list of the required fields and how they are defined by **BIT.**

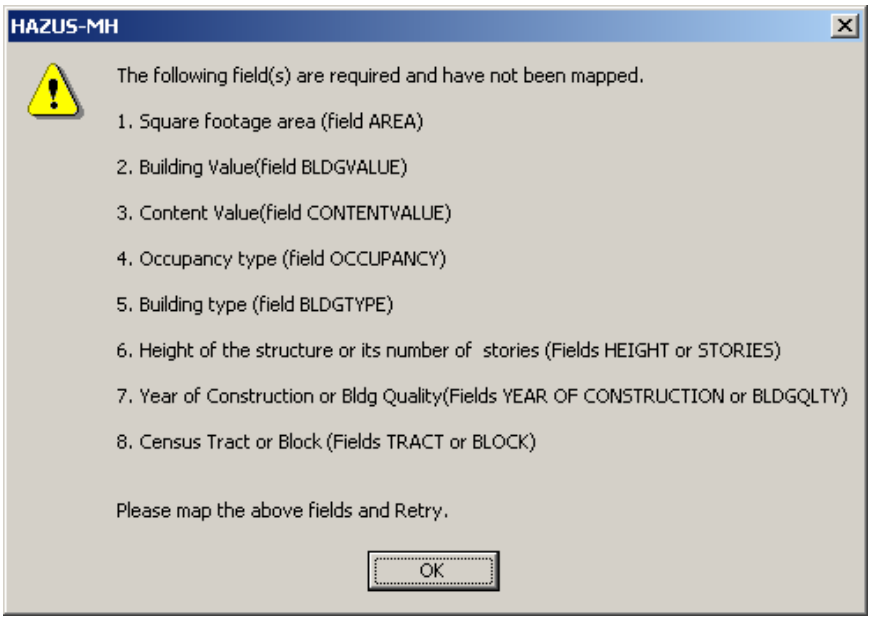


Figure 8.10. An Example of a Warning Message in Case for Missing Field(s).

It is possible you have several databases with the same format and you would like to save the mapping that you have just defined. Before you click the **OK** button, click the **Save** button in Figure 8.9. A save window will appear and you will need to enter a name for the saved mapping scheme. Retrieve the saved mapping scheme by clicking on the **Load** button in Figure 8.9.

Table 8.1. List of Fields Required by the BIT

Field		Field Name in Target Table	Description
1	Area	BldgArea	Built area for building in sq. ft (BIT will adjust the # if not in sq.ft using the conversion factor supplied)
2	Building Value	BldgValue	Current bldg value. Desired unit is in K$ (BIT will adjust the # if not in K$ using the conversion factor supplied)
3	Content Value	ContentValue	Current content value. Desired unit is in K$ (BIT will adjust the # if not in K$ using the conversion factor supplied)
4	Building Type	BldgType	The 'Categorizing' process will translate this to HAZUS-MH specific bldg type.
5	Occupancy Class	Occupancy	The 'Categorizing' process will translate this to HAZUS-MH specific bldg type.
6	Height or # of stories	Height or NumStories	Height (in ft.) if given will converted to # stories to make use of the L, M, or High-rise classification
7	Age or Year of Construction or BldgQuality	BldgQuality	Age/Year of Construction get translated to bldg quality values (C, S, I)
8	Earthquake Design Level	DesignLevel	Optional. If not given, the default for the county will be used.
9	Tract or Block	Tract or Block	Tract is 11-char. Block is 15-char.

8.5 Categorizing Data

The next step in creating standardized data formats is to convert the data to the classification systems of HAZUS. For example, your database may use the term "wood" for low-rise wood frame construction whereas this would be classified as a W1 model building type in HAZUS. Thus, records with structural type "wood" in the source database need to be converted to "W1" in the target database. To do this step, click on the **Categorize...** button shown in Figure 8.11. At the end of this step a new file will be created. It will have the same name as your original file and a new extension: .TG2. This database is the same as the *.TG1 database except that all of the replacements you have requested have been made.

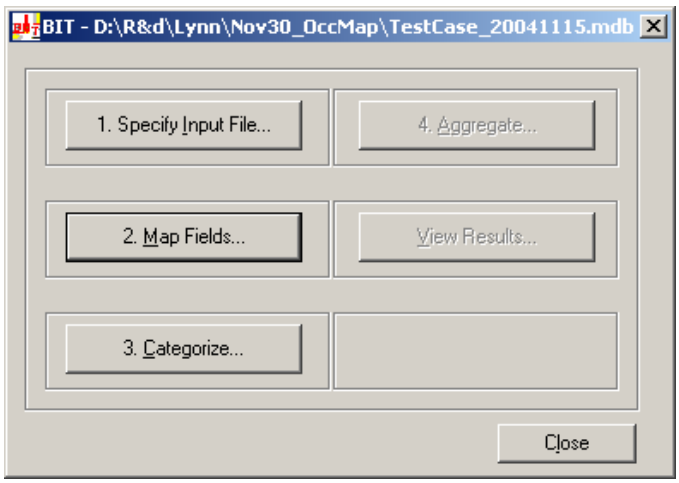


Figure 8.11. Starting the Categorize Function of the BIT.

You have the option to select which fields of data you want to categorize (see Figure 8.12). It is likely that none of your data will be in the standardized format and you will want to select the 'Select All' option. To select the items, simply click on them. When you are finished, click the **OK** button.

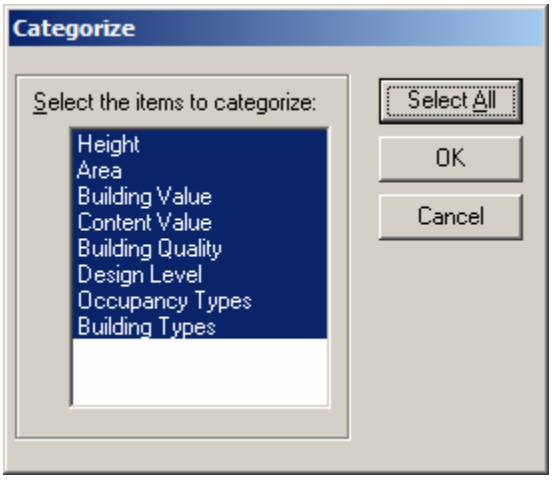


Figure 8.12. Selecting Which Fields You Want to Categorize.

8.5.1 Categorizing Number of Stories Data

HAZUS groups of buildings into low, medium and high-rise structures. Thus ultimately, any building with one to three stories height will be classified as low rise. If your database uses numbers to specify the height of the building in feet, the **BIT** will automatically convert the height to low, medium or high-rise. If the building height that

you have is in non-feet units, you can use the conversion factor[2] to convert the data to feet. If on the other hand the database that is being used has characters or words for number of stories, then you will need to define a mapping scheme to convert your data to the standardized format. The window in Figure 8.13 is used to indicate which of these situations apply to your data.

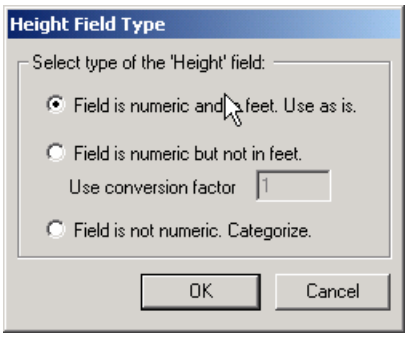


Figure 8.13. Indicating What Type of Building Story Data You Have.

If you click on **Field is non-numeric. Categorize**, then press **OK**, the window in Figure 8.14 is displayed allowing you to define a mapping from your database to the standardized format. As with other mapping windows, after you have defined each mapping, click on the **Add** button and the mapping will appear in the **Results** portion of the window. If you make a mistake, use the **Delete** button.

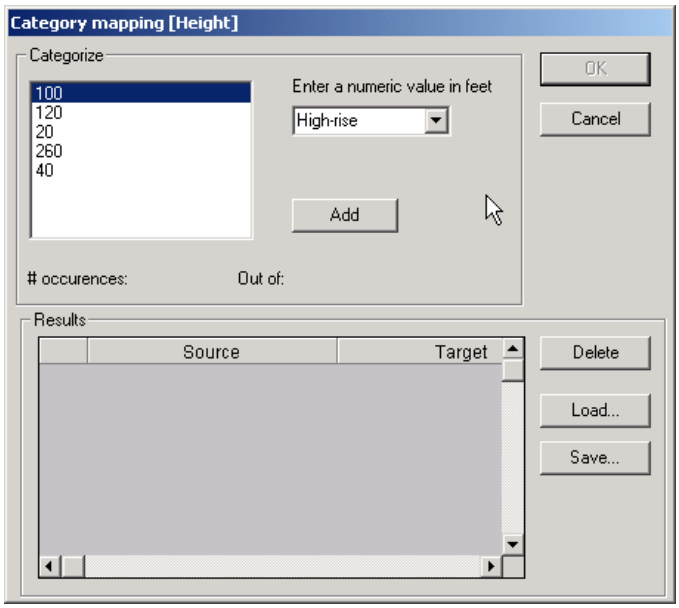


Figure 8.14. Categorizing Number of Stories Data.

[2] The conversion factor is used as a **multiplier,** in other words, it takes the original values in the input file, multiplies them by the conversion factor supplied and uses the result.

To save your data mapping scheme, click on the **Save...** button. Use the window shown in Figure 8.15 to name the mapping scheme. A scheme for mapping number of stories will have an .ssl extension, whereas a scheme for mapping building height will have an .hsl extension.

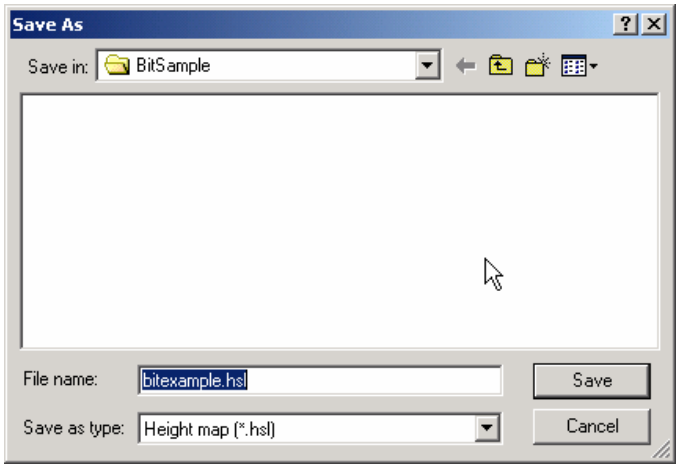


Figure 8.15. Saving Number of Stories Categories.

8.5.2 Categorizing Year Built Data

HAZUS lumps buildings into three age groups: pre-1950, 1950-1970 and post-1970. Occupancy to model building type relationships are developed for each of these three groupings. Year-built data is found in a variety of formats in assessor's files and other commercially available property files. It is most common to find the year built expressed in a two-digit format, such as 95, or in a four-digit format, such as 1995. However, it is possible that other formats could be used such as old, moderate and new. The **BIT** has the flexibility to read any of these formats by selecting the appropriate buttons in Figure 8.16. Perhaps most problematic is how to deal with a zero. A zero can mean that a structure was built in 1900, or in 2000. You may have to ask the supplier of the data how to interpret the occurrence of a zero in the data.

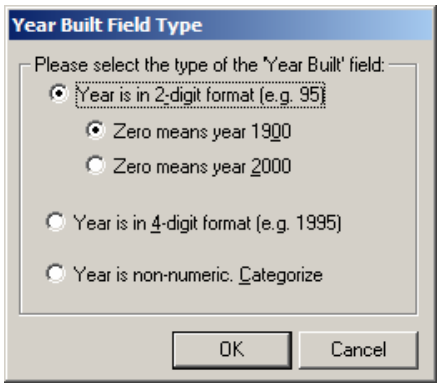


Figure 8.16. Categorizing Year Built Data.

8.5.3 Categorizing Occupancy Class Data

In this step you will be required to map the occupancies found in the source database to the standardized occupancies defined in HAZUS. All of the 33 specific occupancy classes are listed in the **Target** list box found in Figure 8.17. In addition to the specific occupancy classes, you will find five general occupancy classes (Residential, Commercial, Industrial, Government, and Education) and the class "Unknown". General occupancy classes are in all upper-case letters. Some property databases contain very limited information about occupancy; for example, labels such as residential, commercial, and industrial. In this case you will need to use the general occupancy classes for categorizing occupancy.

To define a mapping, click on an occupancy in the **Source** list box and then double click on the corresponding standardized occupancy in the **Target** list box. You can not map multiple occupancies at the same time in the Source list box that corresponds to a single standardized occupancy. This resulted in the four separate mappings found in the **Mapping Results** box. If you find you have made a mistake any time during this process, simply click on the incorrect mapping in the **Mapping Results** box and click on the **Delete** button. Redefine the correct mapping for that occupancy and continue. When you have completed the mapping for all categories in the source database, click the **OK** button.

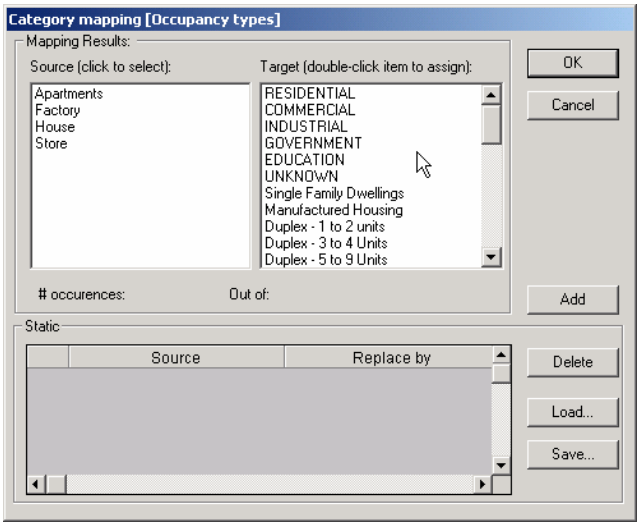


Figure 8.17. Categorizing Occupancy Class Data.

Categorizing occupancy class data can be somewhat tricky and can require judgment on your part. Some of the occupancy classes in the property file may not fit perfectly into HAZUS classifications. For example, you may find a class such as "Office & Residential" in your database that could be classified as either RES3 "Multi-Family Dwelling" or COM4 "Financial/Professional/Technical Services". You will have to use your judgment in deciding which standardized class best typifies this mixed occupancy. Another problem you may find is that source-database occupancy classes do not always

provide a correct description of the property. For example, parking lot, residential lot or vacant lot would imply that these properties have no structures on them. However, in many cases in the sample database used here, there were buildings on these types of properties. You should not be surprised to find that certain occupancies such as universities, institutional housing and government services, to name a few, may be completely absent from your database. Property databases rarely provide detailed information on tax-exempt properties.

As with other mappings defined in the **BIT**, you have the option to save the occupancy class mapping for use on other files. To save the mapping, click on the **Save...** button before clicking **OK**. The occupancy mapping file will be saved with an .osl extension as shown in Figure 8.18. To use the mapping in the future, click on the **Load...** button in Figure 8.17.

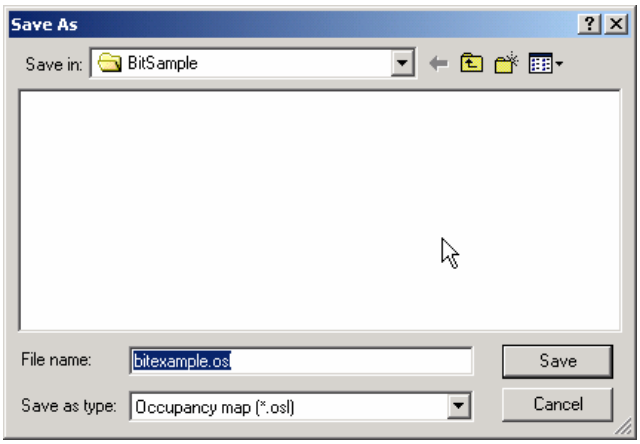


Figure 8.18. Saving an Occupancy Mapping Scheme.

8.5.4 Categorizing Building Type Data

In this step you will be required to map the structural types found in the source database to the model building types defined in HAZUS Earthquake Model. (See Appendix B, Table B.2 of the Earthquake User Manual). The 16 general building types found in Table B.2 are listed in the **Target** list box shown in Figure 8.19. In addition to the general model building types, you will find four basic building material types (Wood, Steel, Concrete, and Masonry) and the class "Unknown". Basic building material types are in all upper-case letters. Many property databases contain very limited information about the structural system used, and the categories used are often based on fire safety information. For example, in this sample database shown in Figure 8.19, category C contains brick, tilt-up and formed concrete construction. The user has chosen to map category C to masonry. Clearly, this will introduce uncertainty into the occupancy to model building type relationships that are produced by the **BIT**. It is rare to find a property database that provides sufficient information to define reliable mappings to all general building types.

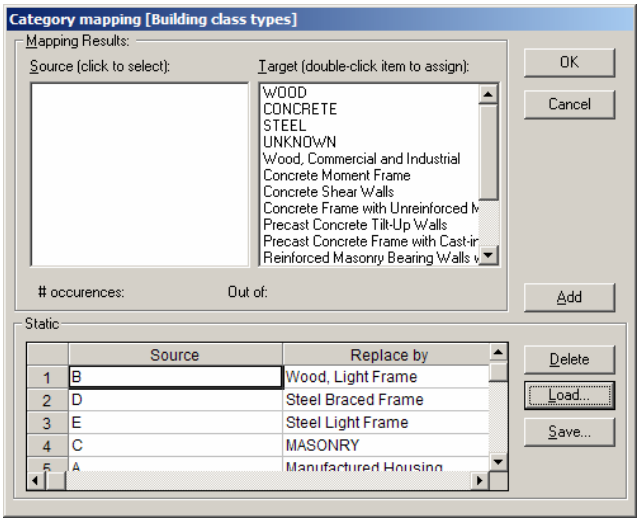


Figure 8.19. Categorizing Building Type Data.

To define a mapping, click on a building type in the **Source** list box and then double-click on the corresponding standardized building type in the **Target** list box. You can not map multiple building types at the same time in the **Source** list box that correspond to a single standardized building type. If you find you have made a mistake any time during this process, simply click on the incorrect mapping in the **Mapping Results** box and click on the **Delete** button. Redefine the correct mapping for that building type and continue.

When you have completed the mapping for all categories in the source database, click the **OK** button. At this point the **BIT** will check if the the Design Level was mapped at the field mappings or not if not it will go to Step 8.5.5 else it will go to Step 8.6.6

As with other mappings defined in the **BIT**, you have the option to save the building type mapping for use on other files. To save the mapping, click on the **Save...** button before clicking **OK**. The building type mapping file will be saved with a .bsl extension as shown in Figure 8.20. To use the mapping in the future, click on the **Load...** button in Figure 8.19.

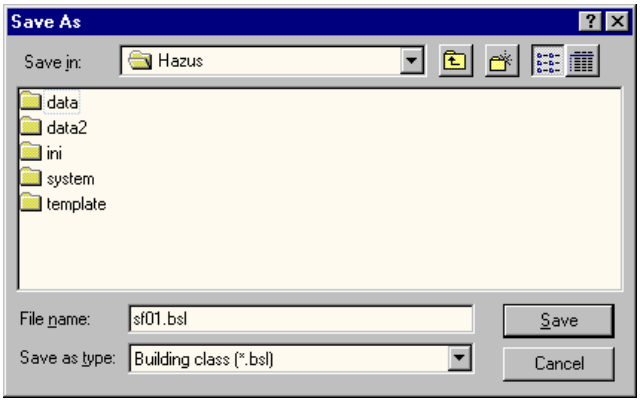


Figure 8.20. Saving a Building Type Mapping Scheme.

8.5.5 Categorizing Design Level (Optional)

This step is required if you have not specified the Design Level Field mapping. In this step you will be required to map the design level found in the source database to the design level defined in HAZUS**.** There are 3 types of design levels defined in HAZUS low, medium and high as shown in Figure 8.21

To define a design level, click on a design level in the **Source** list box and then double-click on the corresponding design level in the **Target** list box. You can not map multiple design levels at the same from the design levels in the **Source** list box that correspond to a single design level. If you find you have made a mistake any time during this process, simply click on the incorrect mapping in the **Mapping Results** box and click on the **Delete** button. Redefine the correct mapping for that design level and continue.

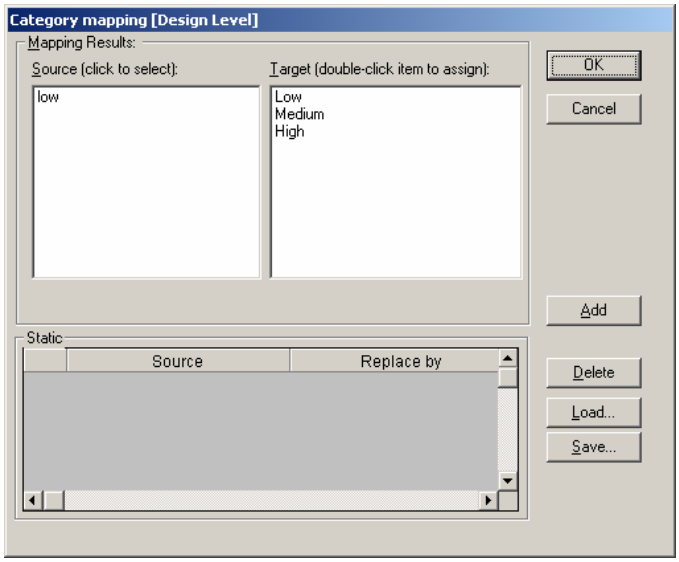


Figure 8.21. Categorizing Design Level.

As with other mappings defined in the **BIT**, you have the option to save the design level mapping for use on other files. To save the mapping, click on the **Save...** button before clicking **OK**. The design level mapping file will be saved with a .dsl extension as shown in Figure 8.22. To use the mapping in the future, click on the **Load...** button in Figure 8.21.

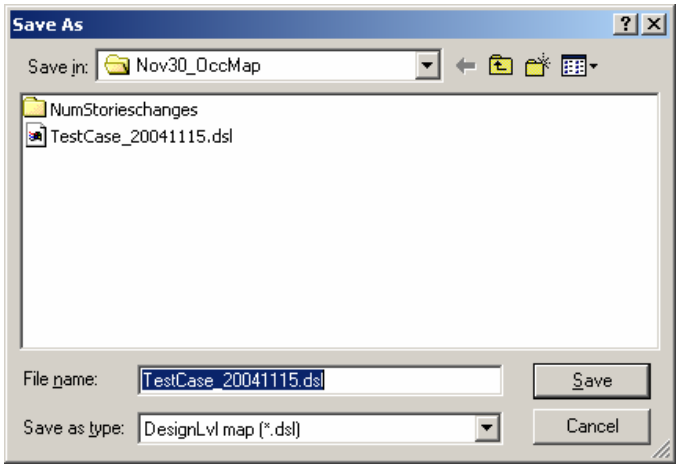


Figure 8.22. Saving a Design Level Type Mapping.

When you have completed the mapping for all categories in the source database, click the **OK** button.

8.5.6 Categorizing Floor Area

HAZUS uses Area in thousands of square feet. However, it is possible the field is numeric but not in the thousands of square feet. You can use a conversion factor as shown in Figure 8.23.

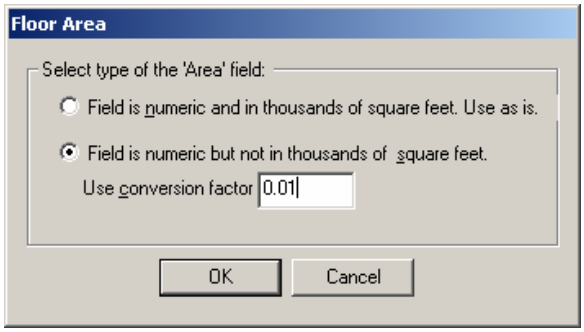


Figure 8.23. Categorizing Floor Area Data.

When you have defined the type, click the **OK** button.

8.5.7 Categorizing Building Value

HAZUS uses building values in thousands of dollars. However, it is possible field is numeric but not in the thousands of dollars. You can use a conversion factor as shown in Figure 8.24.

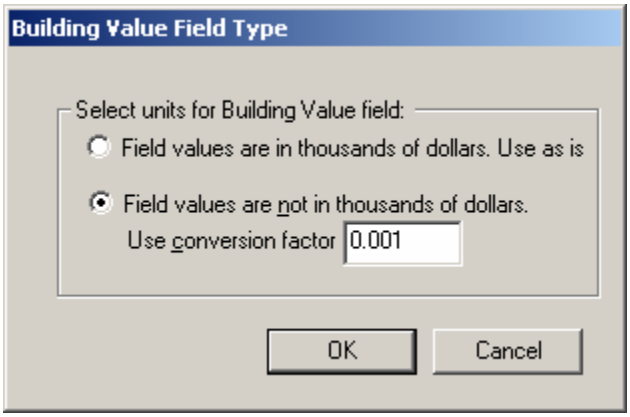


Figure 8.24. Categorizing Building Value Data.

When you have defined the type, click the **OK** button.

8.5.8 Categorizing Content Values

HAZUS uses content values in thousands of dollars. However, it is possible field is numeric but not in the thousands of dollars. You can use a conversion factor as shown in Figure 8.25.

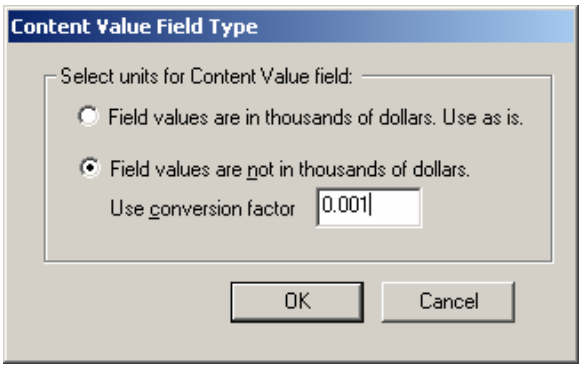


Figure 8.25. Categorizing Content Values Data.

When you have defined the type, click the **OK** button.

At this point the **BIT** will substitute the standardized categories for the original categories in the source database. Depending on the size of the database this will take a few minutes to more than an hour.

8.6 Aggregating the Database Statistics

At this point the **BIT** is ready to create the occupancy to model building type relationships for each census tract. Click on the **Aggregate** button (shown in Figure 8.26) and wait. When the aggregation is done you will be able to view the results using the **View Results** button.

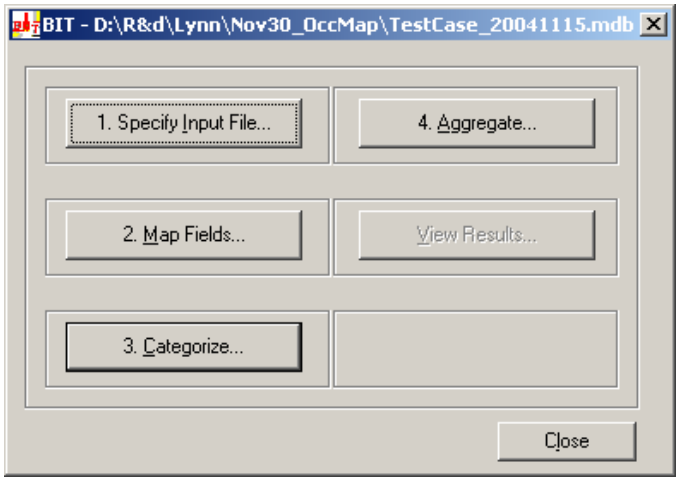


Figure 8.26. Starting the Aggregation Utility.

If for some reason you have changed your database in some way and need to run the aggregate utility again, you will execute the exact same steps and BIT will update the data automatically.

8.7 BIT Results

Once the aggregation process has finished, **BIT** will have created the following type of results:

- Square footage values by specific occupancy
- Building structural and content dollar exposure values by specific occupancy
- Building count values by specific occupancy
- General mapping schemes (specific occupancy vs. general building type)
- Mapping scheme distrubtion matrices applicable to the earthquake module (specific building type vs. specific occupancy)

All of the above can then be imported into HAZUS to replace the default data. To get guidance on the process, contact Technical Support.

Chapter 9. Running HAZUS with User-Supplied Data

This chapter provides a step-by-step discussion of how to perform an analysis if you wish to modify the hazard definition, default analysis parameters, or analysis options. Before attempting an analysis that will incorporate user-supplied data, follow the steps in Chapter 3 for running an analysis using only default data.

9.1 Defining the Study Region

The first step in any analysis is defining a study region. Please refer to Section 3.1 for a complete description of this process.

9.2 Defining the Inventory Data

The second step is to review the inventory data and modify the data, as necessary. Please refer to Chapter 4 through Chapter 8 for information on how to define the inventory data.

9.3 Defining the Hazard

The third step is to define the hurricane hazard. The options are either a probabilistic hurricane hazard, which activates a database of many thousand potential storms that have tracks and intensities reflecting the full spectrum of Atlantic hurricanes observed since 1886, or a single deterministic hurricane scenario. The inputs required for each of the two options are described in the following sections.

9.3.1 Defining a Probabilistic Hurricane Hazard

The probabilistic scenario is the default hazard option in the Hurricane Model. There are no options or special settings required. The required steps are:

- Select the **Scenario** command from the **Hazard** menu. This brings up the Welcome Page of the Hurricane Scenario Wizard, shown in Figure 9.1.
- Click on the **Next** button.
- Select the **Probabilistic** item in the Hurricane Scenarios list box and select the **Activate** option, as shown in Figure 9.2.
- Click on the **Next** button two times.
- Click on **Finish** to exit the Hurricane Scenario Wizard (Figure 9.3).

Activating the Probabilistic hurricane hazard will cause the Hurricane Model to execute a 100,000-year simulation of storms when the next analysis is run on the current study region. The probabilistic scenario option will remain as the active scenario until a different type of scenario is made active for the current study region.

Figure 9.1. Hurricane Scenario Wizard – Welcome Page.

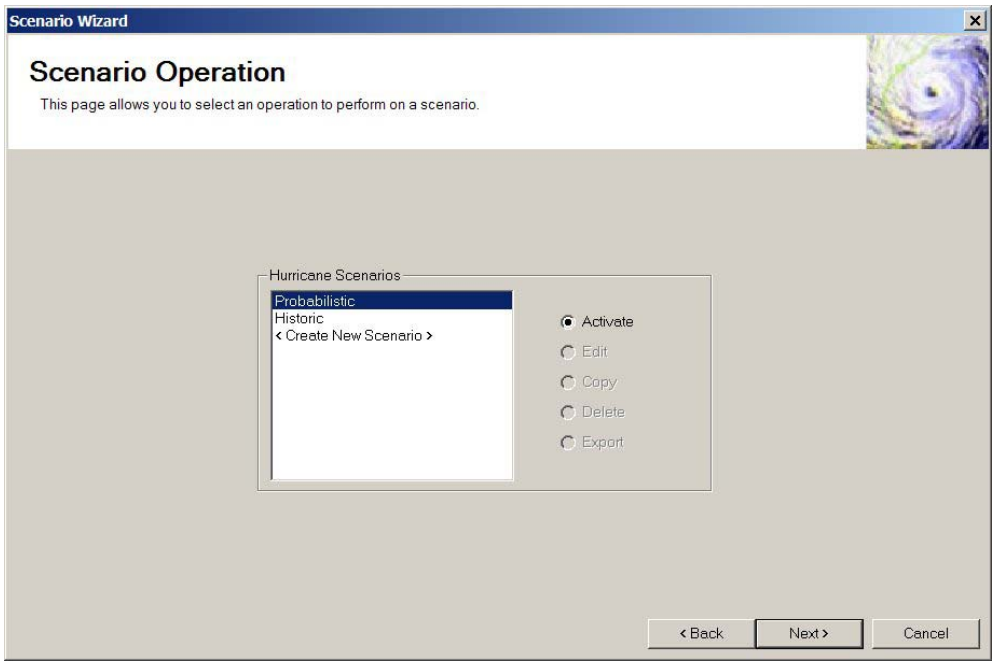


Figure 9.2. Hurricane Scenario Wizard – Scenario Operation Page.

Figure 9.3. Hurricane Scenario Wizard – Completion Page.

9.3.2 Defining a Deterministic Hurricane Scenario

There are five ways to define a deterministic hurricane scenario. You can:

- Manually define a storm.
- Import a storm created by another HAZUS user.
- Select a historical storm
- Select an existing forecast/advisory[3]
- Download a new forecast/advisory from the HurrEvac FTP site.

The steps required for each of these options are described in the following sections.

9.3.2.1 Manually Defining a Storm Track

The required steps required to manually define a storm track are:

[3] When an existing forecast/advisory is selected or a new forecast/advisory is downloaded, the hurricane radii and wind speeds in the forecast/advisory files are reduced by the factors given in the HurrevacVmaxFactor, HurrevacRHurr64Factor, and HurrevacRHurrr64Factor entries in the HKEY_LOCAL_MACHINE\SOFTWARE\FEMA\HAZUS-MH\HU registry key.

- Select the **Scenario** command from the **Hazard** menu. This brings up the Welcome Page of the Hurricane Scenario Wizard, shown previously in Figure 9.1.
- Click on the **Next** button.
- Select the **<Create New Scenario>** item in the Hurricane Scenarios list box, as shown in Figure 9.4, and then click on the **Next** button.
- Select *Define Storm Track Manually* (Figure 9.5) and click on the **Next** button.
- Enter a name for the new scenario (Figure 9.6) and click on the **Next** button.
- This brings up the Storm Track Definition Method page (Figure 9.7). At this point you must answer three questions:
  - Do you want to specify the elapsed time for each point along the storm track or do you want to specify the forward translation speed of the storm at each point?
  - Do you want to specify the size of the storm in terms of radius to maximum winds or radius to hurricane force winds?
  - Do you want to characterize the wind field of the storm in terms of maximum wind speed or a Holland profile parameter?

  The answers to these questions will depend on the format of the information you have. After answering these questions, click on the **Next** button.
- Specify the storm track by clicking observation points on the map shown in Figure 9.8. You will be able to modify the exact coordinates of each point on the next page. The tools on this page include:
  - Zoom to rectangle
  - Zoom In
  - Zoom out
  - Pan
  - Delete point
  - Delete track
  - Move point
  - Move track
- After defining the track, click on the **Next** button.
- Specify the storm parameters at each point along the storm track using the table shown in Figure 9.9. Pay careful attention to the units shown in the column headings. Depending on your previous inputs you will be asked to provide eight of the following inputs:
  - Latitude – This column is filled in automatically based on the locations of the points on your storm track. All values are in decimal degrees (North is positive). You can edit the values to move the track points to specific coordinates.

- Longitude – This column is filled in automatically based on the locations of the points on your storm track. All values are in decimal degrees (East is positive). You can edit the values to move the track points to specific coordinates
- Time – Elapsed time in hours at each point along the track. The first point should be zero.
- Translation Speed – Forward speed of the storm in miles/hour at each point along the track. Typical translation speeds range from 5 to 25 mph.
- Radius to Maximum Winds – Distance in miles from the center of the storm to the location of highest winds. Typical values range from 6 to 60 miles. Intense storms generally have smaller radii to maximum winds.
- Radius to Hurricane Winds, 50 knot winds, or 34 knot winds – Greatest distance in miles from the center of the storm to hurricane force winds (i.e., 74 mph sustained), 50 knot winds, or 34 knot winds. These values are provided in Hurricane Forecast/Advisories. Typical values range from 10 to 200 miles.
- Maximum Wind Speed – Maximum 1-minute sustained wind speed in miles per hour in the storm at the current location.
    - Category 1: 74-95 mph
    - Category 2: 96-110 mph
    - Category 3: 111-130 mph
    - Category 4: 131-155 mph
    - Category 5: >155 mph
- Profile Parameter – Holland B parameter defines the distribution of atmospheric pressures as a function of distance from the center of the storm. Values range from 0.5 to 2.5 with a typical value being 1.4.
- Central Pressure – Surface level atmospheric pressure in mbar at the center of the storm at the current location.
    - Category 1: >979 mbar
    - Category 2: 965-979 mbar
    - Category 3: 945-964 mbar
    - Category 4: 920-944 mbar
    - Category 5: <920 mbar
- Inland – If the point is inland and your input data are from an NHC Forecast/Advisory, then check this box. HAZUS uses this information to estimate the Radius to Maximum Winds from the NHC Radius to Hurricane Winds.
- Forecast – If the point is a forecast position and you wish to estimate a range of expected losses taking into account forecast uncertainties, then check this box. HAZUS uses this information to simulate a variety of potential tracks given the last known position and intensity.

IMPORTANT NOTE: To run an analysis with the forecast uncertainties, the track must be defined using Time (not Translation Speed) and Maximum Wind Speed (not Profile Parameter). The times of the forecast points must be T+9 hrs, T+21 hrs, T+33 hrs, T+45 hrs, and T+69 hrs, where T is the time of the last known position. These are the time increments used in the official NHC Forecast/Advisories. Note that it is not necessary to include all of the forecast positions from the advisory. The minimum number of permitted forecast points is one (T+9 hrs), and the maximum is five (T+69 hrs).

- Use the Tab key or Arrow keys to move between cells. If you need to insert another point in the middle of the track, use the Insert button. After defining the track, click on the **Next** button to start the wind field calculation.
- A progress bar will be displayed during the calculation, as shown in Figure 9.10. When the analysis is complete, click on the **Next** button
- When the analysis is complete, a map of the computed wind speeds will be displayed as shown in Figure 9.11. After reviewing the results, click on the **Next** button to continue.
- Next, a summary of the new scenario will be displayed, as shown in Figure 9.12. After reviewing the information, click on the **Next** button to continue.
- If you want to make the new storm the active scenario, click on *Yes* on the Activate Scenario page (Figure 9.13) and then click on the **Next** button.
- Click on **Finish** to exit the Hurricane Scenario Wizard (Figure 9.14).

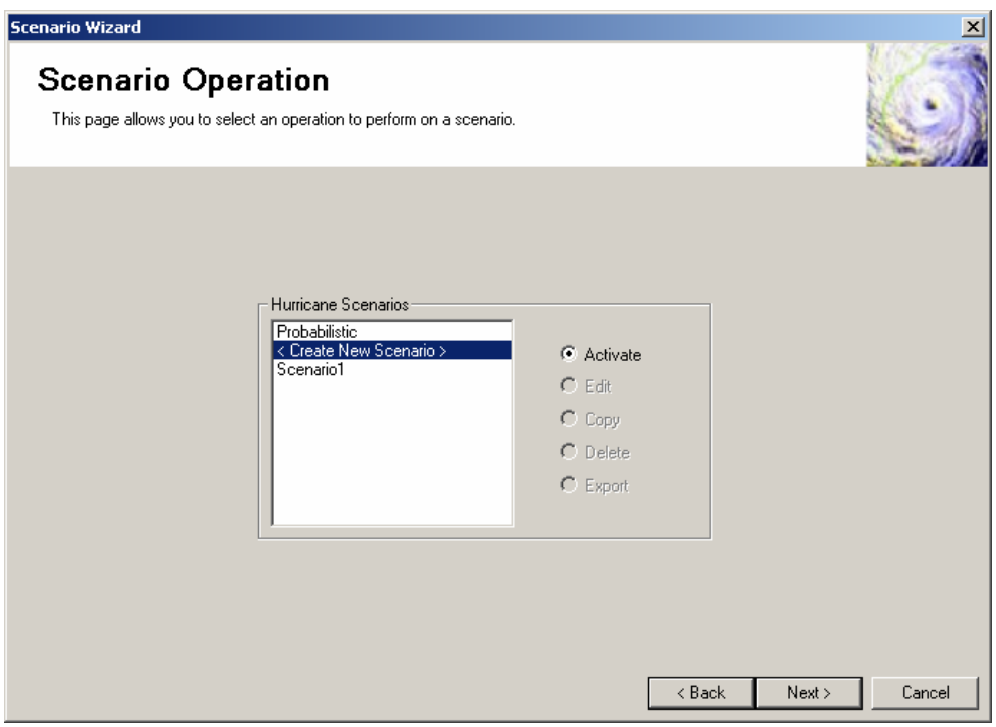


Figure 9.4. Hurricane Scenario Wizard – Scenario Operation Page.

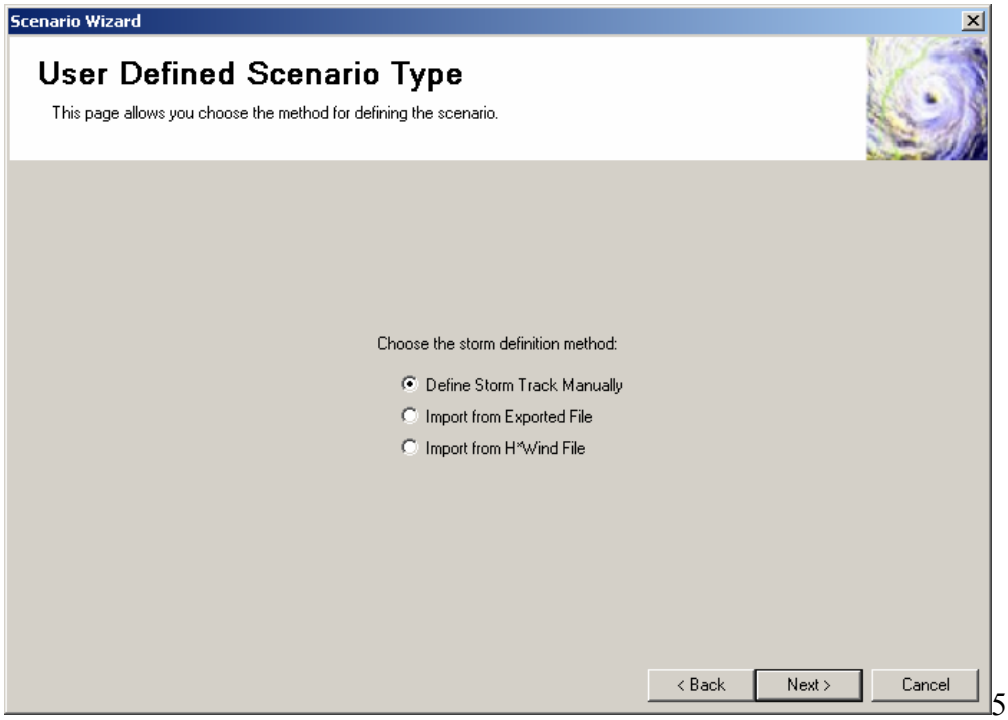


Figure 9.5. Hurricane Scenario Wizard – User Defined Type Page.

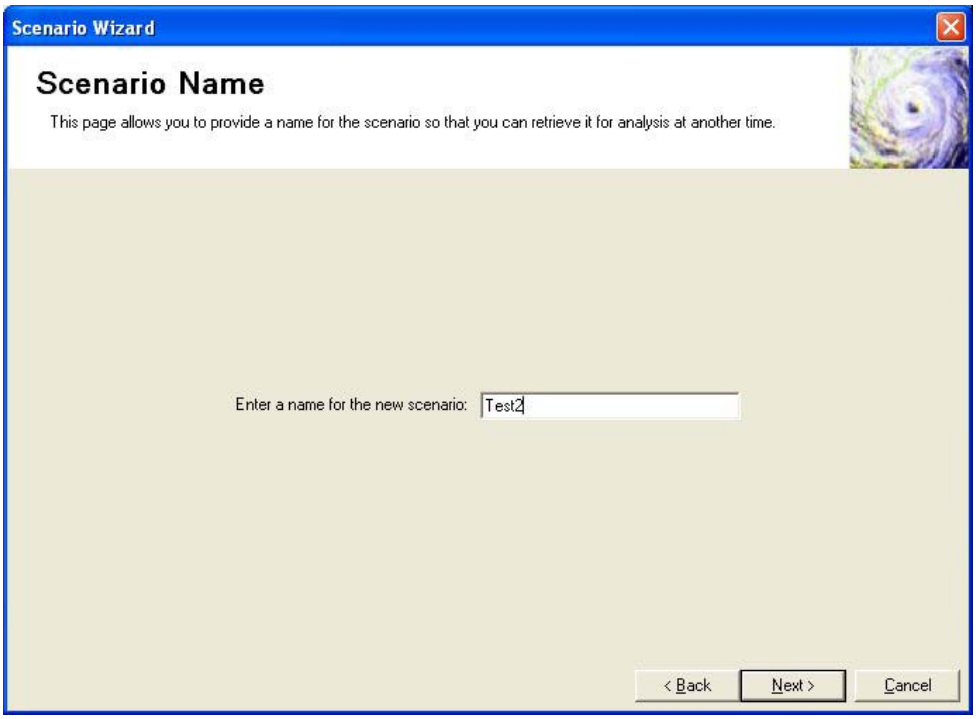


Figure 9.6. Hurricane Scenario Wizard – Name Page.

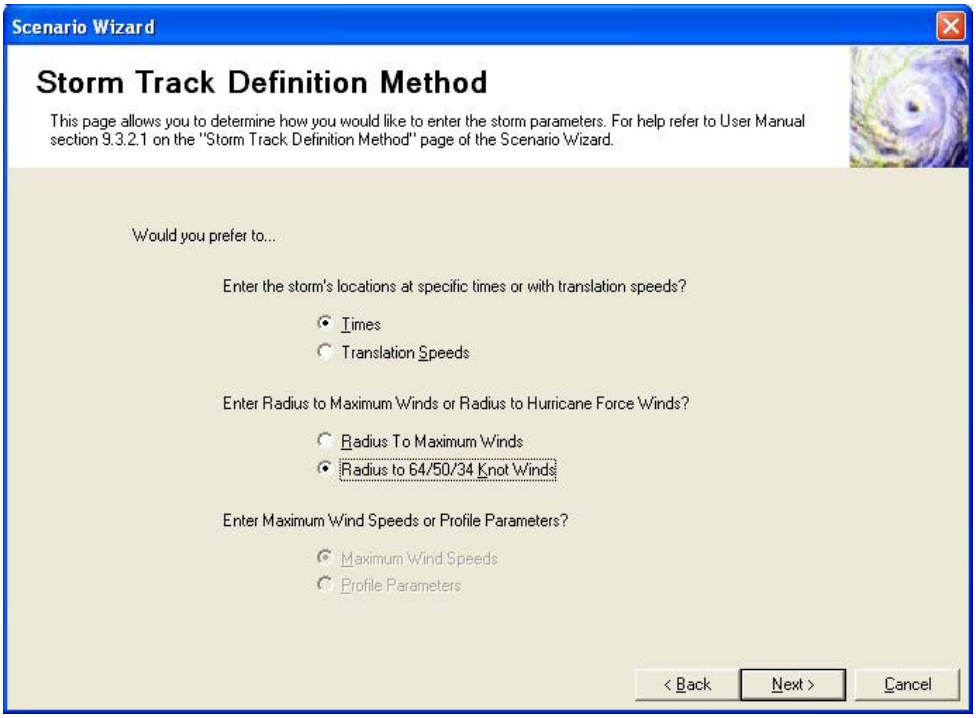


Figure 9.7. Hurricane Scenario Wizard – Track Parameter Preferences Page.

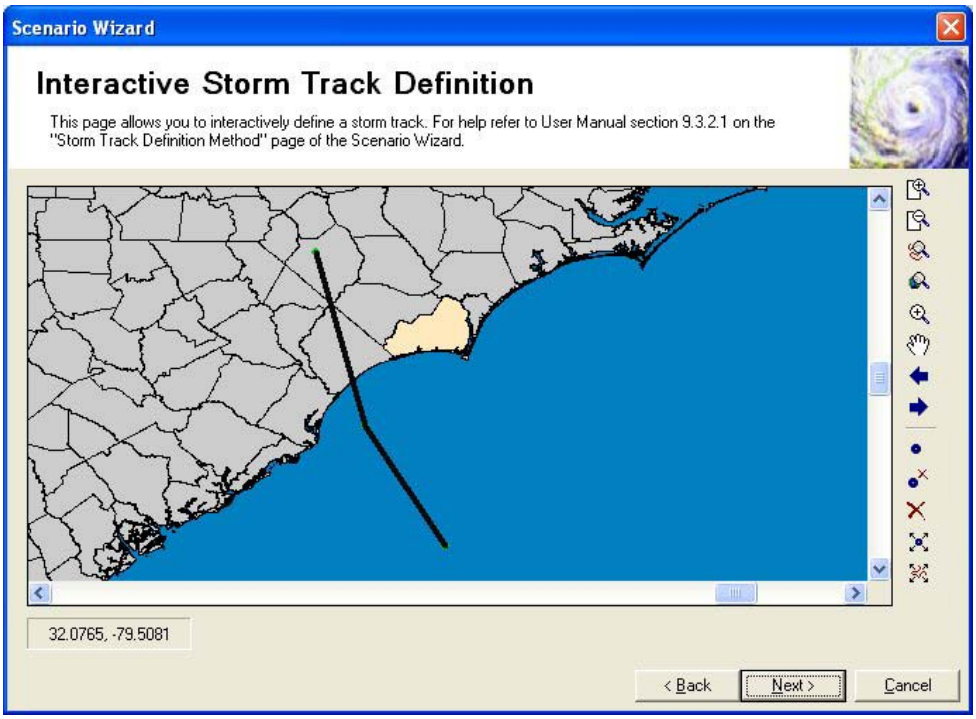


Figure 9.8. Hurricane Scenario Wizard – Define Track Page.

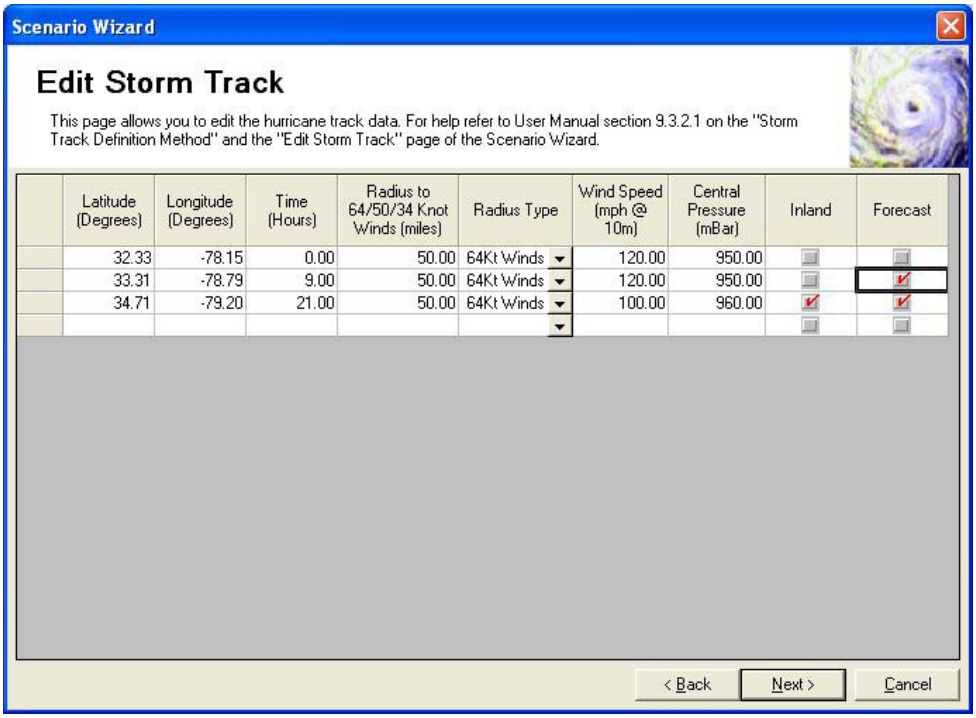


Figure 9.9. Hurricane Scenario Wizard – Edit Track Page.

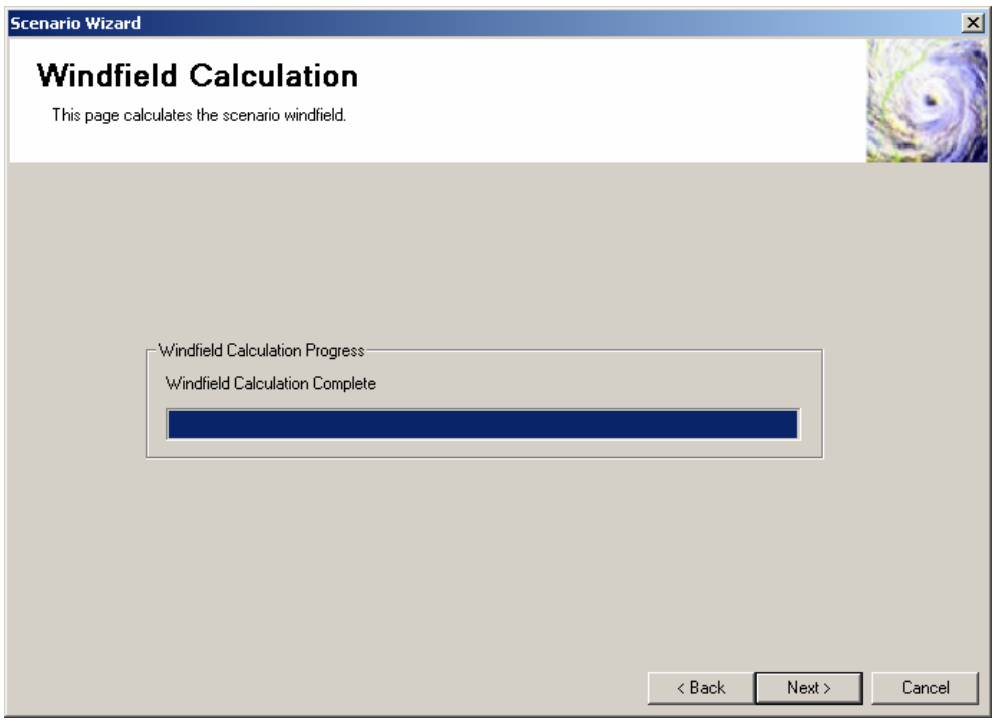


Figure 9.10. Hurricane Scenario Wizard – Wind Field Calculation Progress Page.

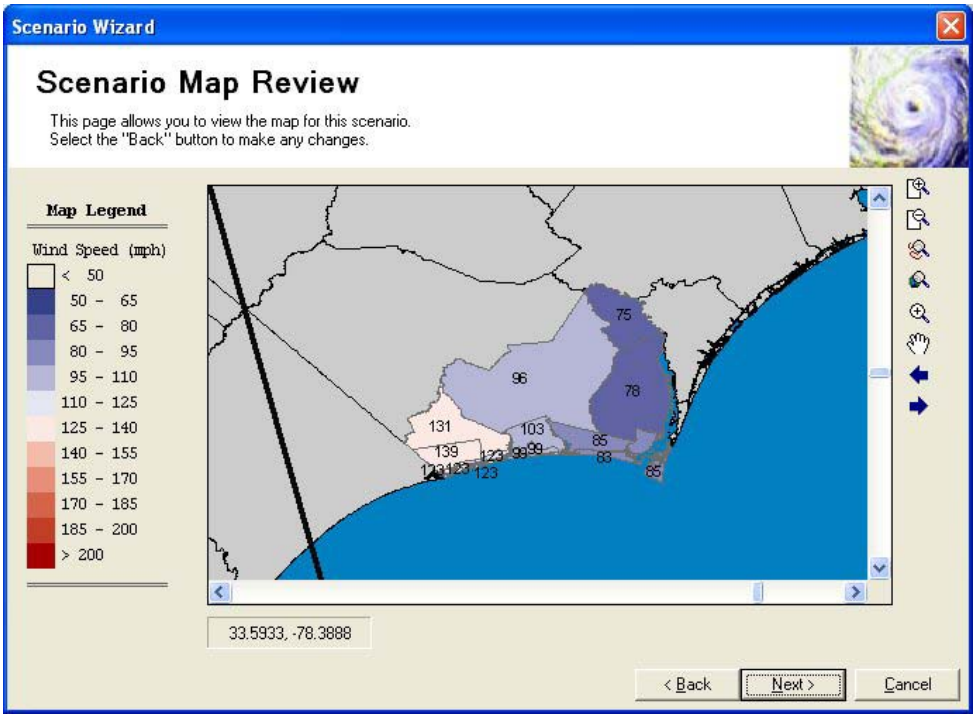


Figure 9.11. Hurricane Scenario Wizard – Map Review Page.

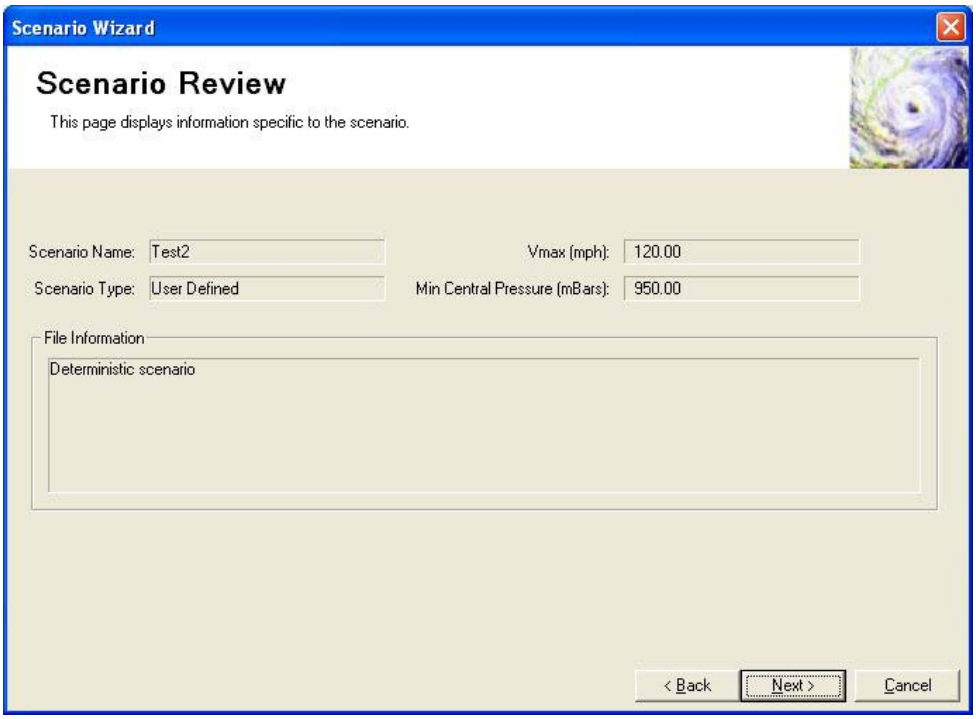


Figure 9.12. Hurricane Scenario Wizard – Scenario Review Page.

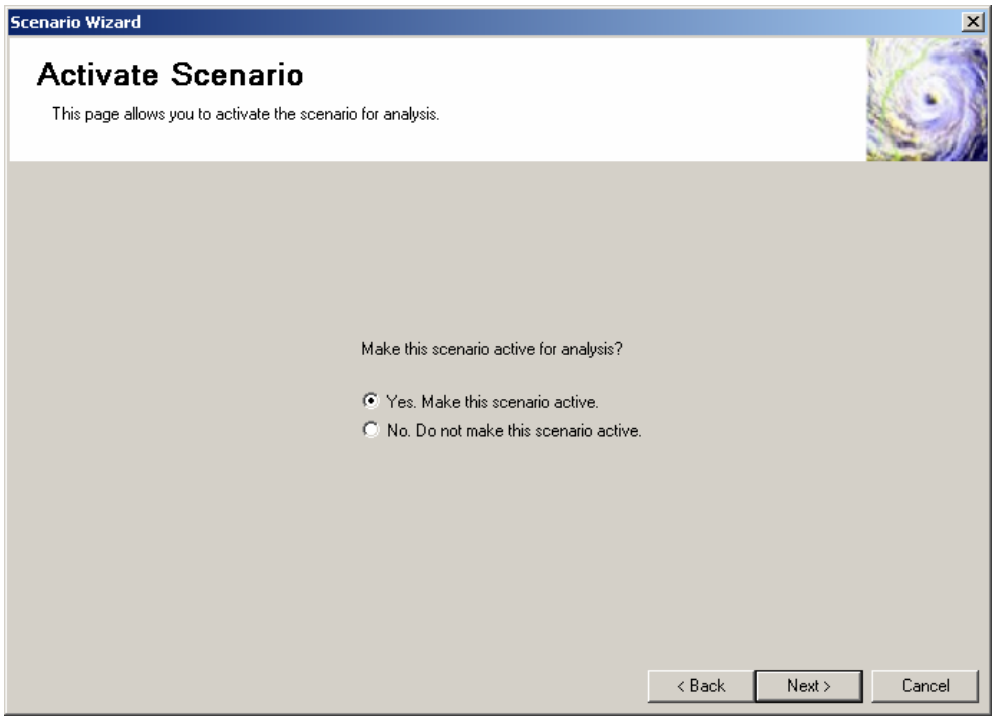


Figure 9.13. Hurricane Scenario Wizard – Activate Scenario Page.

Figure 9.14. Hurricane Scenario Wizard – Completion Page.

9.3.2.2 Importing a Storm Track from a File

The required steps to import a storm track are:

- Select the **Scenario** command from the **Hazard** menu. This brings up the Welcome Page of the Hurricane Scenario Wizard, shown previously in Figure 9.1.
- Click on the **Next** button.
- Select the **<Create New Scenario>** item in the Hurricane Scenarios list box and select the **Activate** option, as shown in Figure 9.15, and then click on the **Next** button.
- Enter a name for the new scenario (Figure 9.16) and click on the **Next** button.
- Select *Import from Exported File* (Figure 9.17) and click on the **Next** button.
- Use the browser shown in Figure 9.18 to select the import file and click on the **Open** button**.** This will bring up the import progress page shown in Figure 9.19.
- When the import is complete, click on the **Next** button to display a map of the computed wind speeds, as shown in Figure 9.20. After reviewing the results, click on the **Next** button to continue.
- Next, a summary of the new scenario will be displayed, as shown in Figure 9.21. After reviewing the information, click on the **Next** button to continue.
- If you want to make the new storm the active scenario, click on *Yes* on the Activate Scenario page (Figure 9.22).
- Click on **Finish** to exit the Hurricane Scenario Wizard (Figure 9.23).

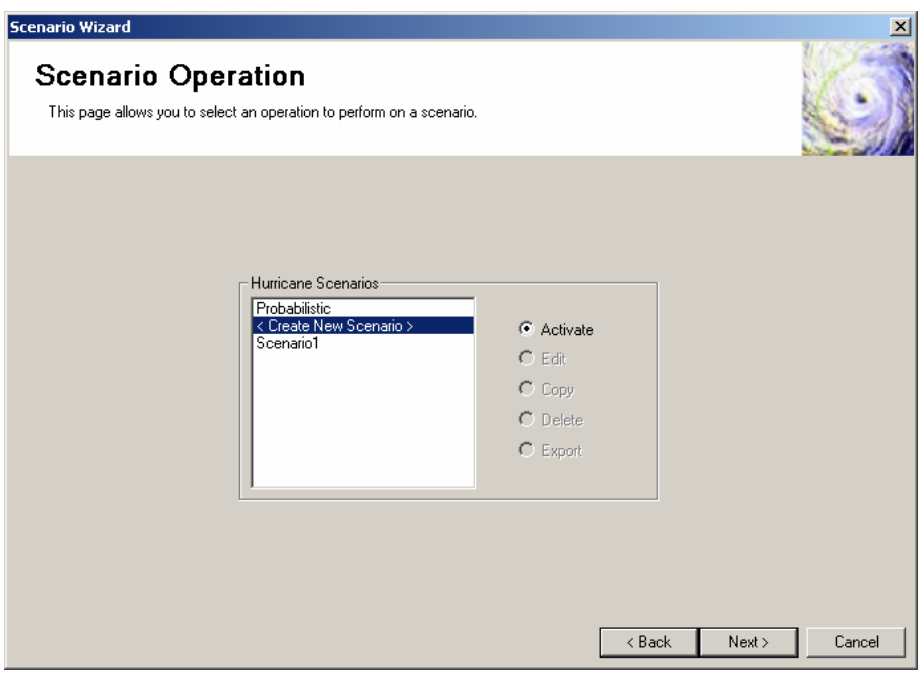


Figure 9.15. Hurricane Scenario Wizard – Scenario Operation Page.

Figure 9.16. Hurricane Scenario Wizard – Name Page.

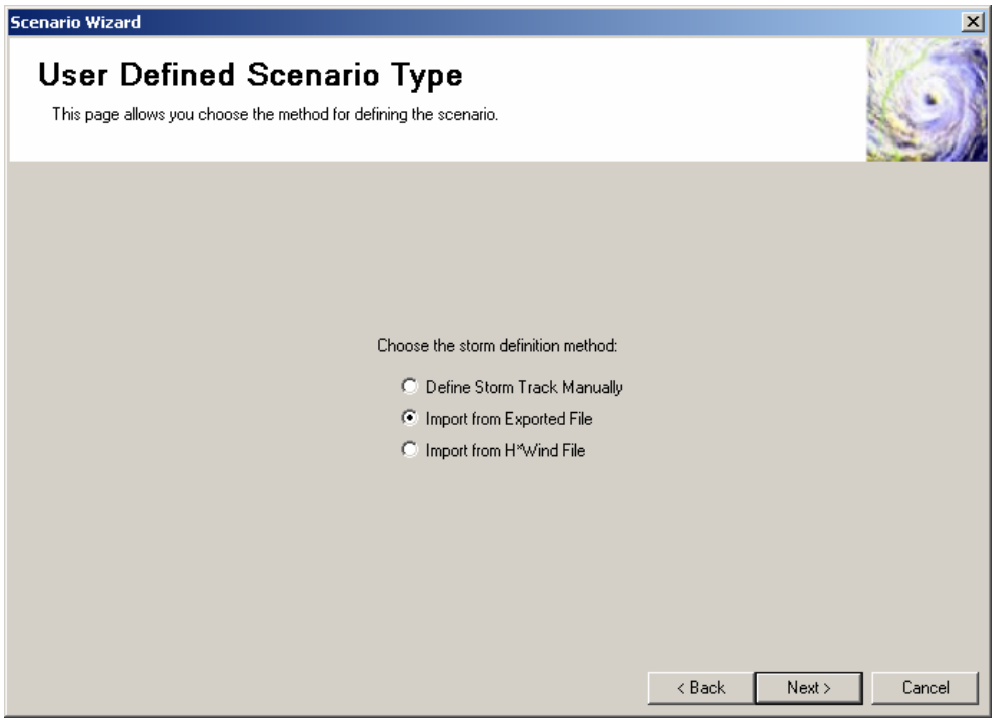


Figure 9.17. Hurricane Scenario Wizard – User Defined Type Page.

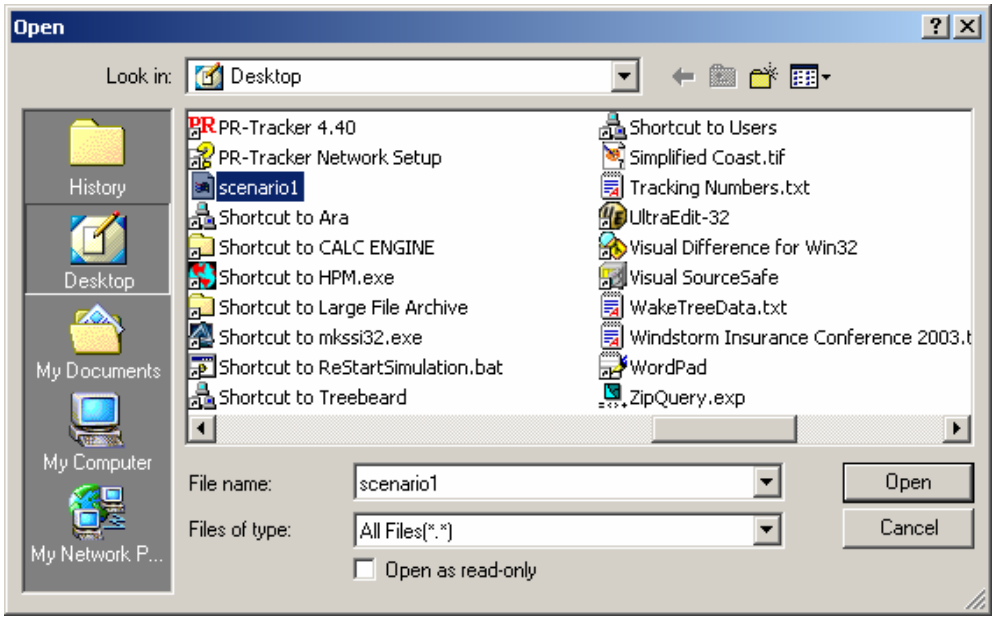


Figure 9.18. File Open Dialog.

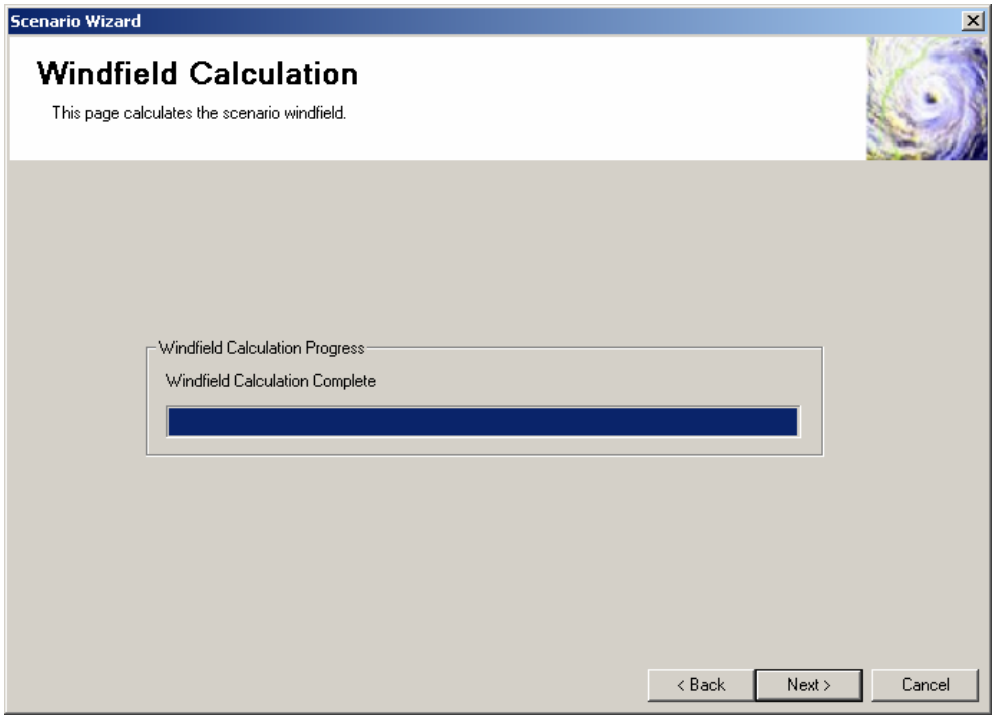


Figure 9.19. Hurricane Scenario Wizard – File Import Progress Page.

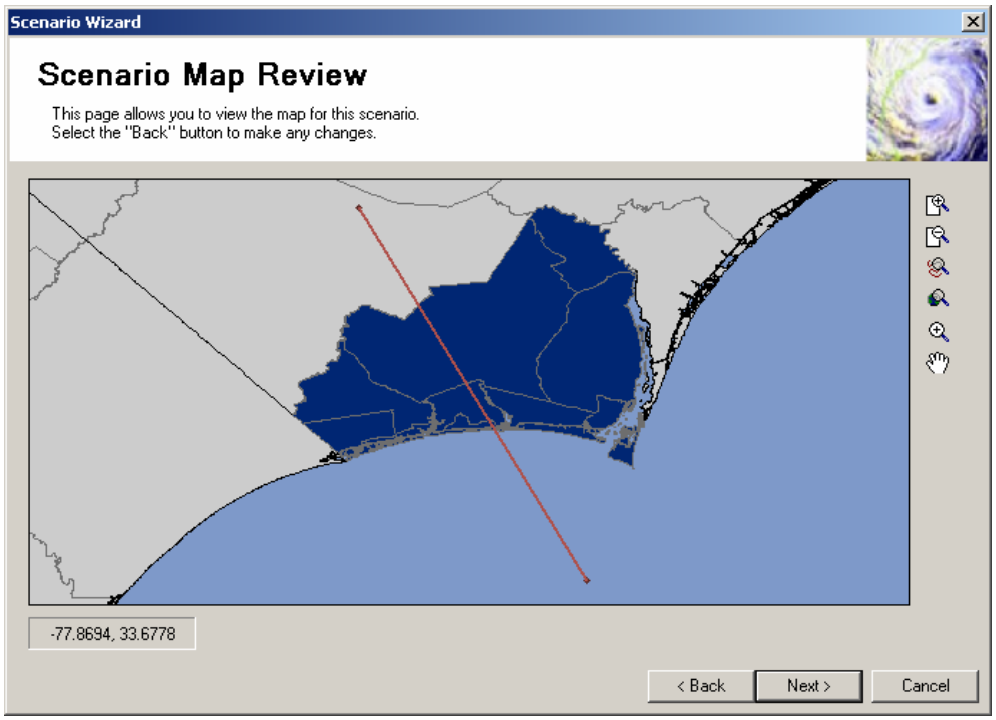


Figure 9.20. Hurricane Scenario Wizard – Map Review Page.

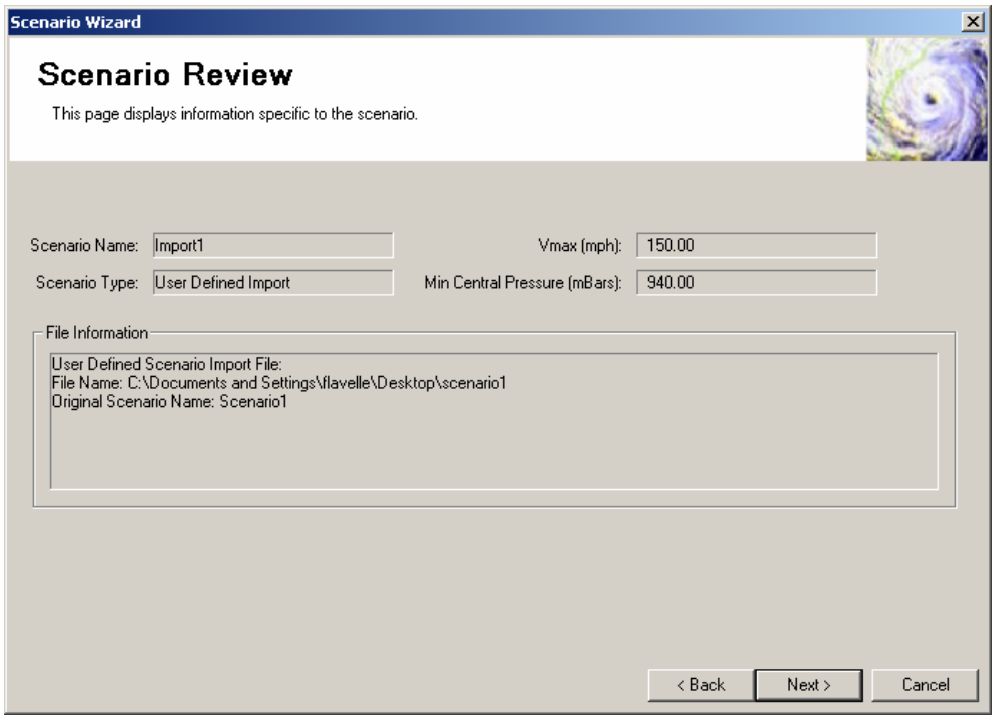


Figure 9.21. Hurricane Scenario Wizard – Scenario Review Page.

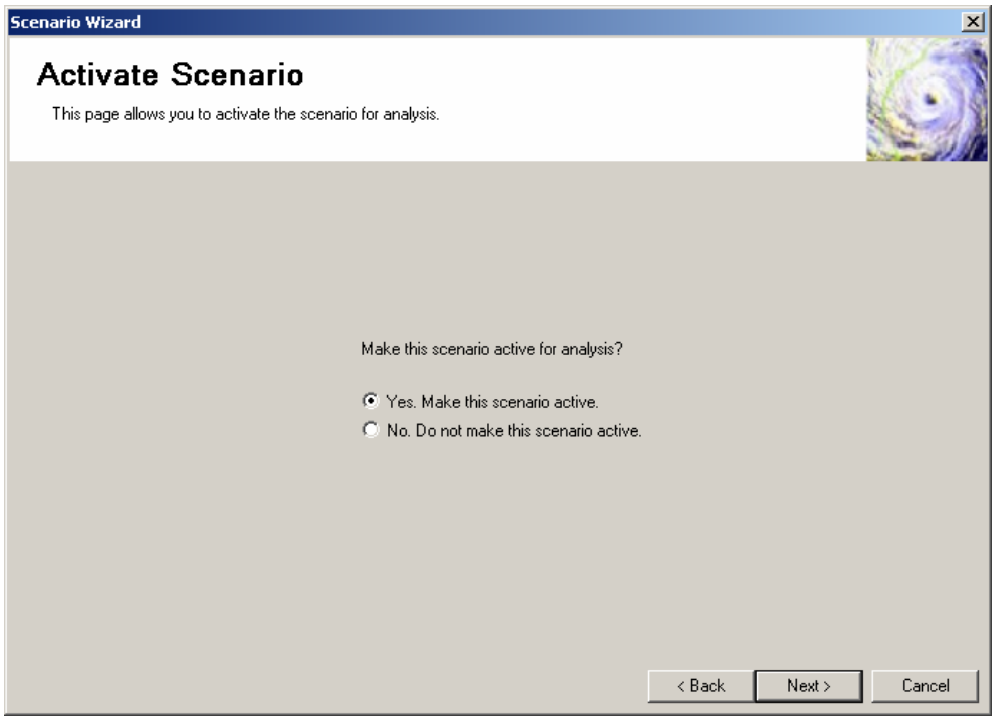


Figure 9.22. Hurricane Scenario Wizard – Activate Scenario Page.

Figure 9.23. Hurricane Scenario Wizard – Completion Page.

9.3.2.3 Selecting a Historic Storm

The required steps select a historic storm are:

- Select the **Scenario** command from the **Hazard** menu. This brings up the Welcome Page of the Hurricane Scenario Wizard, shown previously in Figure 9.1.
- Click on the **Next** button.
- Select the **Historic** item in the Hurricane Scenarios list box.
- Click on the **Next** button.
- Select a storm from the list. The list includes all Category 3-5 storms (at the time of landfall) since 1900. Click on the **Region Filter** button to exclude storms that do not affect your study region.
- Click on the **Next** button.
- Click on **Finish** to exit the Hurricane Scenario Wizard (Figure 9.3).

9.3.2.4 Selecting an Existing Forecast/Advisory

The required steps to select an existing Forecast/Advisory are:

- Select the **Scenario** command from the **Hazard** menu. This brings up the Welcome Page of the Hurricane Scenario Wizard, shown previously in Figure 9.1.
- Click on the **Next** button.
- Select the **<Create New Scenario>** item in the Hurricane Scenarios list box, as shown in Figure 9.24, and then click on the **Next** button.
- Select *Import HurrEvac storm advisory* (Figure 9.25) and click on the **Next** button.
- This brings up the Storm Selection page (Figure 9.26). Select *Atlantic* (or *Central Pacific* if your study region is all or part of Hawaii) on the left side of the page.
- This populates the storm list (Figure 9.27) with the names of all of the available Forecast/Advisories available prior to the release of the software.
- If you would like to search the storm list for a particular storm, click on the third tool in the group in the top left area of the Storm Selection page. This brings up the Query Dialog (Figure 9.28).
- Enter the appropriate query parameters (Figure 9.29) and click on **Create Query** (Figure 9.30).
- Click on **OK.** This action will return you to the Storm Selection page to view a filtered list of storms (Figure 9.31).
- Select the proper storm. To quickly view the contents of the Forecast/Advisory data file, click on the first tool in the group in the top left area of the Storm Selection page. If you have a default program for viewing comma separated files (*.csv), such as Microsoft Excel, this will automatically bring up a display of the Forecast/Advisory data file contents (Figure 9.32).

- After closing the Quick View, click on the **Next** button on the Storm Selection page to display the Edit Storm Track page of the Hurricane Scenario Wizard (Figure 9.33).
- If there are positions on the Forecast/Advisory storm track that are a hundreds of miles from your study region, you can delete these rows from the table by selecting the appropriate rows, right clicking, and selecting "Delete Row". This step will speed up the processing of the Forecast/Advisory, but care should be taken to ensure enough points are left to properly compute the correct peak gust wind speeds in your entire study region (Figure 9.34).
- After making any edits to the storm track, click on the **Next** button to initiate the windfield calculation (Figure 9.35).
- When the windfield calculation is complete, click on the **Next** button.
- A map of the compute peak gust wind speeds will be displayed as shown in Figure 9.36. After reviewing the results, click on the **Next** button to continue.
- Next, a summary of the Forecast/Advisory scenario will be displayed, as shown in Figure 9.37. After reviewing the information, click on the **Next** button to continue.
- If you want to make the new scenario the active scenario, click on *Yes* on the Activate Scenario page (Figure 9.38) and then click on the **Next** button.
- Click on **Finish** to exit the Hurricane Scenario Wizard (Figure 9.39).

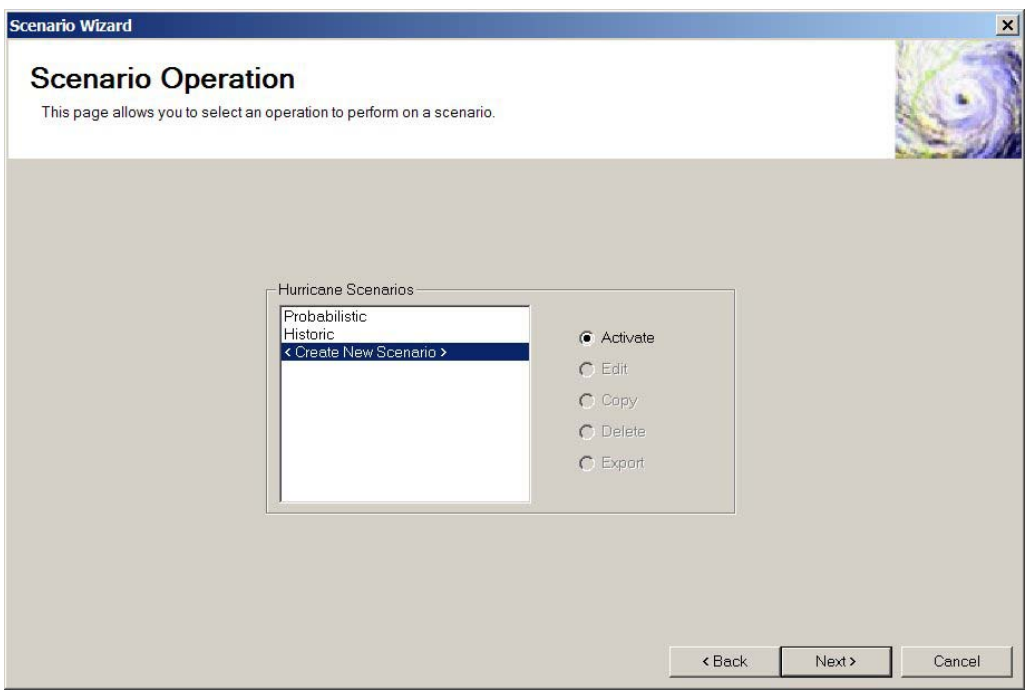


Figure 9.24. Hurricane Scenario Wizard – Scenario Operation Page.

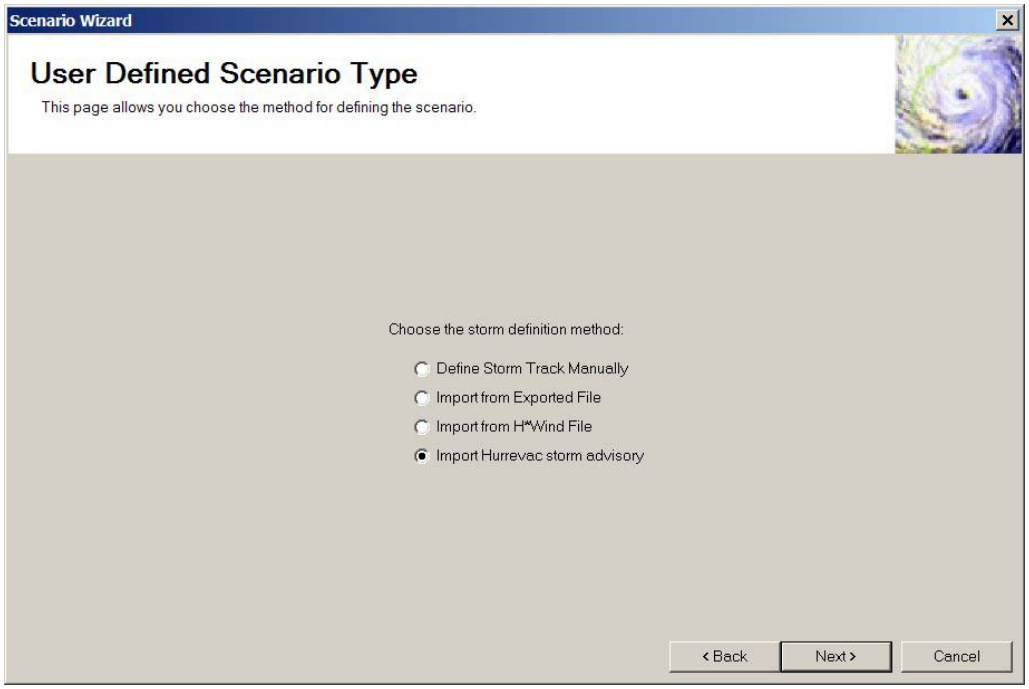


Figure 9.25. Hurricane Scenario Wizard – User Defined Scenario Type Page.

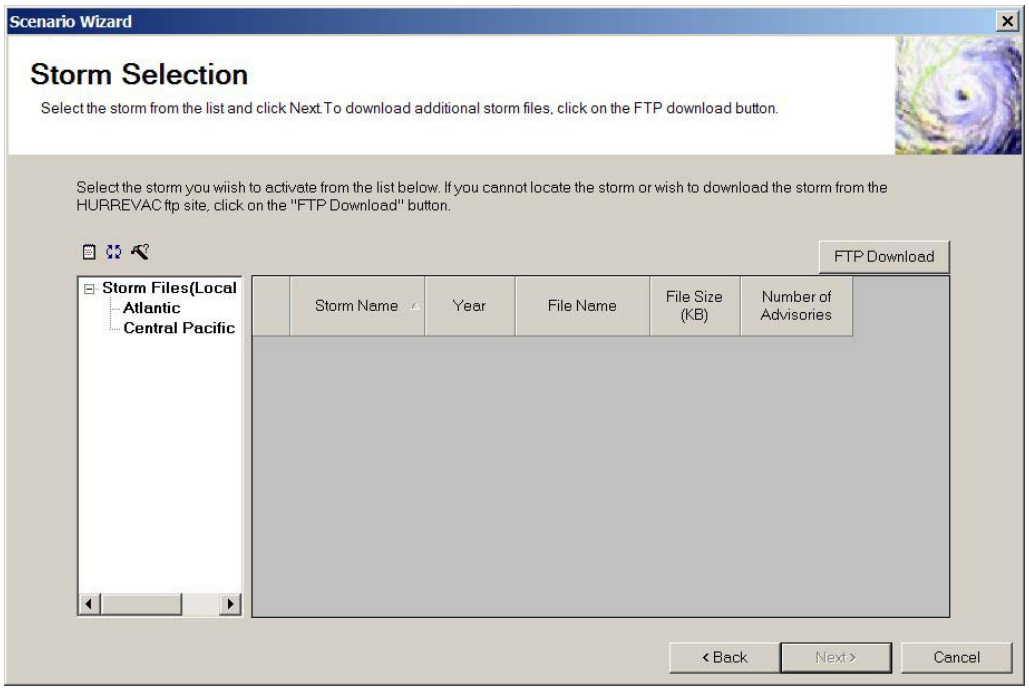


Figure 9.26. Hurricane Scenario Wizard – Storm Selection Page.

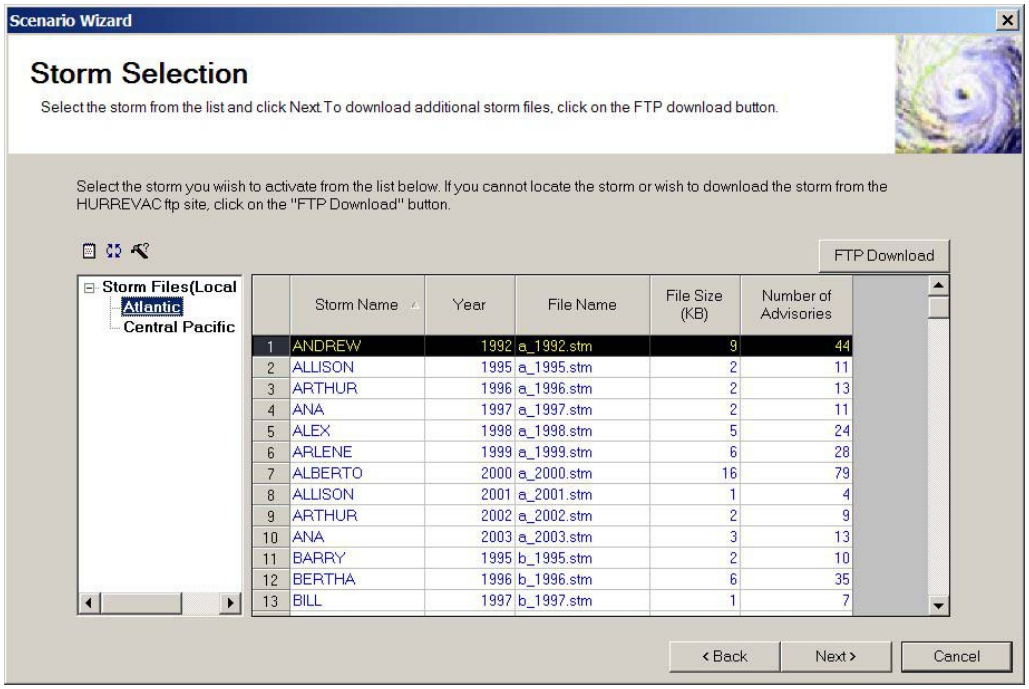


Figure 9.27. Hurricane Scenario Wizard – Storm Selection Page with Atlantic Storms.

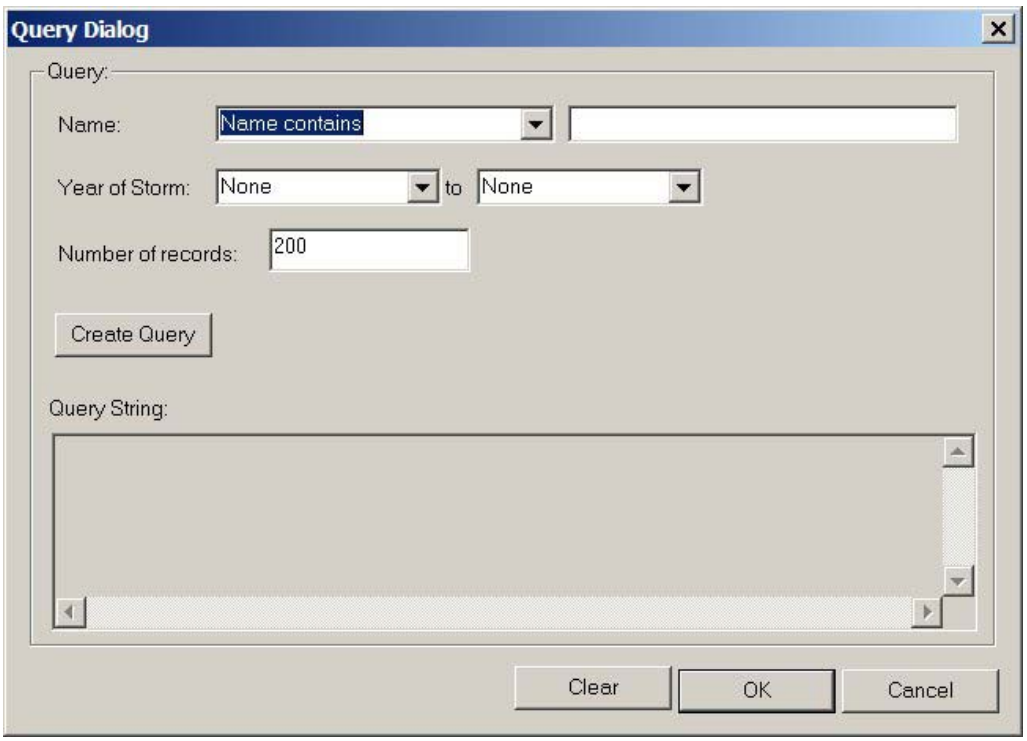


Figure 9.28. Forecast/Advisory Query Dialog (1 of 3).

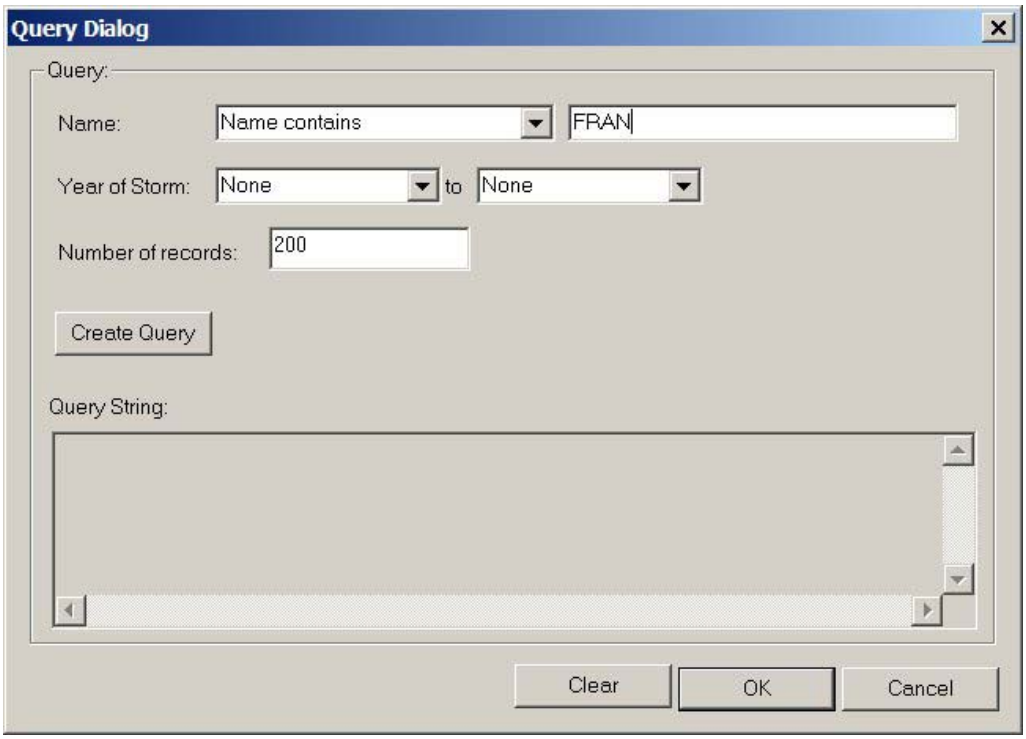


Figure 9.29. Forecast/Advisory Query Dialog (2 of 3).

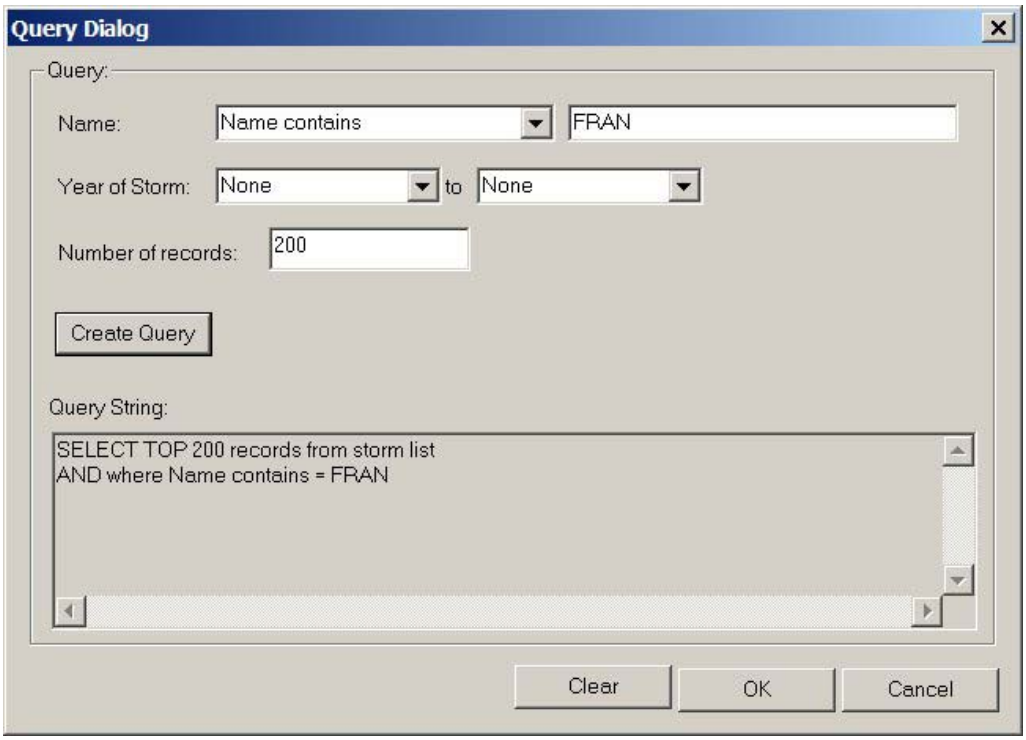


Figure 9.30. Forecast/Advisory Query Dialog (3 of 3).

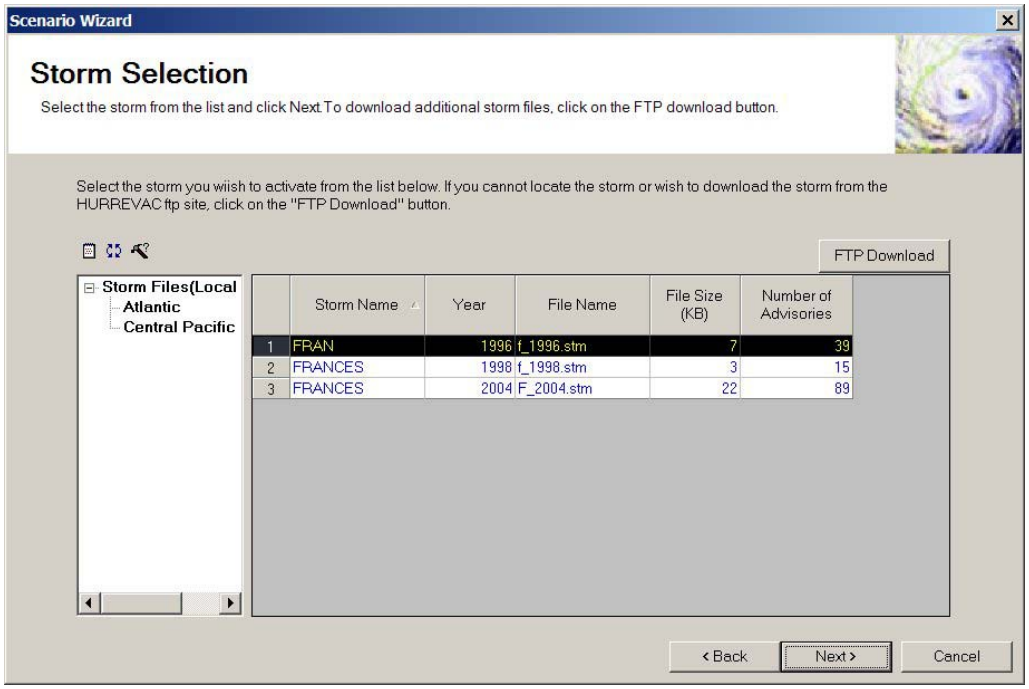
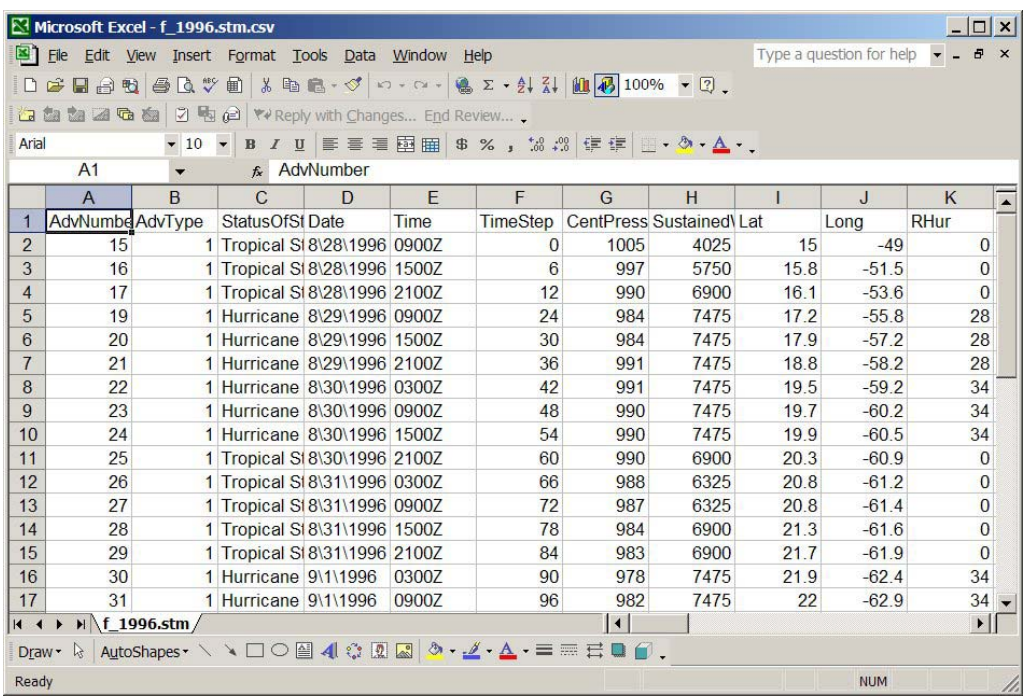
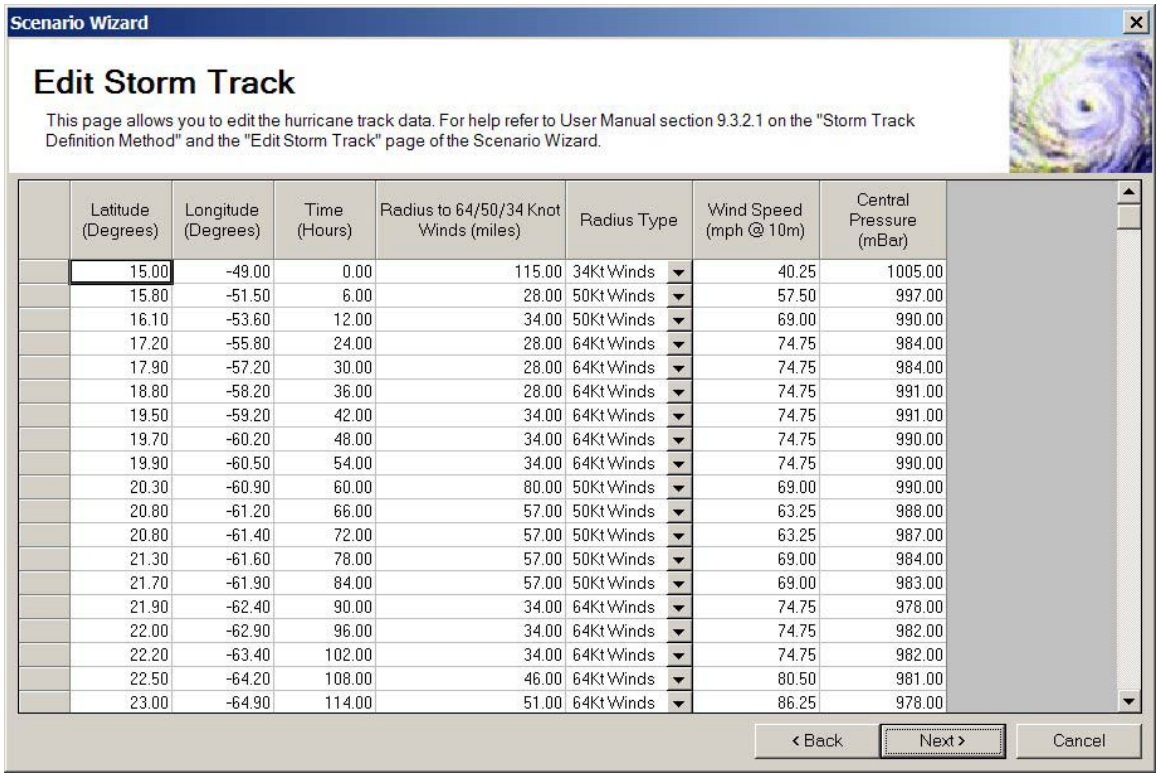


Figure 9.31. Hurricane Scenario Wizard – Storm Selection Page with Query Results.



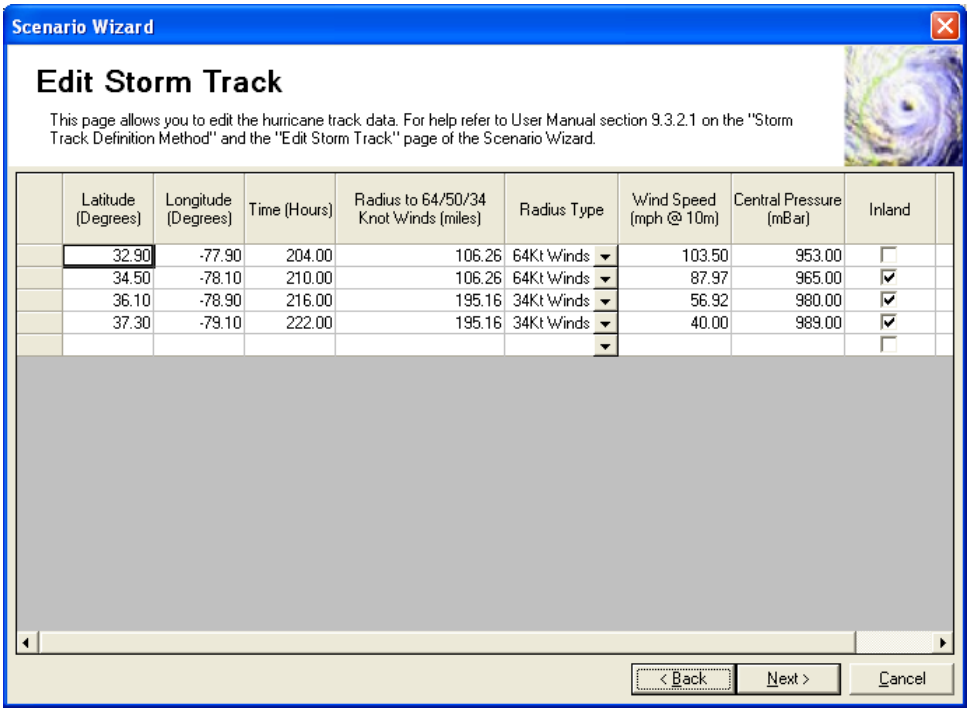
	A	B	C	D	E	F	G	H	I	J	K
1	AdvNumbe	AdvType	StatusOfSt	Date	Time	TimeStep	CentPress	Sustained\	Lat	Long	RHur
2	15	1	Tropical St	8\28\1996	0900Z	0	1005	4025	15	-49	0
3	16	1	Tropical St	8\28\1996	1500Z	6	997	5750	15.8	-51.5	0
4	17	1	Tropical St	8\28\1996	2100Z	12	990	6900	16.1	-53.6	0
5	19	1	Hurricane	8\29\1996	0900Z	24	984	7475	17.2	-55.8	28
6	20	1	Hurricane	8\29\1996	1500Z	30	984	7475	17.9	-57.2	28
7	21	1	Hurricane	8\29\1996	2100Z	36	991	7475	18.8	-58.2	28
8	22	1	Hurricane	8\30\1996	0300Z	42	991	7475	19.5	-59.2	34
9	23	1	Hurricane	8\30\1996	0900Z	48	990	7475	19.7	-60.2	34
10	24	1	Hurricane	8\30\1996	1500Z	54	990	7475	19.9	-60.5	34
11	25	1	Tropical St	8\30\1996	2100Z	60	990	6900	20.3	-60.9	0
12	26	1	Tropical St	8\31\1996	0300Z	66	988	6325	20.8	-61.2	0
13	27	1	Tropical St	8\31\1996	0900Z	72	987	6325	20.8	-61.4	0
14	28	1	Tropical St	8\31\1996	1500Z	78	984	6900	21.3	-61.6	0
15	29	1	Tropical St	8\31\1996	2100Z	84	983	6900	21.7	-61.9	0
16	30	1	Hurricane	9\1\1996	0300Z	90	978	7475	21.9	-62.4	34
17	31	1	Hurricane	9\1\1996	0900Z	96	982	7475	22	-62.9	34

Figure 9.32. Quick View of Forecast/Advisory Data File.



Latitude (Degrees)	Longitude (Degrees)	Time (Hours)	Radius to 64/50/34 Knot Winds (miles)	Radius Type	Wind Speed (mph @ 10m)	Central Pressure (mBar)
15.00	-49.00	0.00	115.00	34Kt Winds	40.25	1005.00
15.80	-51.50	6.00	28.00	50Kt Winds	57.50	997.00
16.10	-53.60	12.00	34.00	50Kt Winds	69.00	990.00
17.20	-55.80	24.00	28.00	64Kt Winds	74.75	984.00
17.90	-57.20	30.00	28.00	64Kt Winds	74.75	984.00
18.80	-58.20	36.00	28.00	64Kt Winds	74.75	991.00
19.50	-59.20	42.00	34.00	64Kt Winds	74.75	991.00
19.70	-60.20	48.00	34.00	64Kt Winds	74.75	990.00
19.90	-60.50	54.00	34.00	64Kt Winds	74.75	990.00
20.30	-60.90	60.00	80.00	50Kt Winds	69.00	990.00
20.80	-61.20	66.00	57.00	50Kt Winds	63.25	988.00
20.80	-61.40	72.00	57.00	50Kt Winds	63.25	987.00
21.30	-61.60	78.00	57.00	50Kt Winds	69.00	984.00
21.70	-61.90	84.00	57.00	50Kt Winds	69.00	983.00
21.90	-62.40	90.00	34.00	64Kt Winds	74.75	978.00
22.00	-62.90	96.00	34.00	64Kt Winds	74.75	982.00
22.20	-63.40	102.00	34.00	64Kt Winds	74.75	982.00
22.50	-64.20	108.00	46.00	64Kt Winds	80.50	981.00
23.00	-64.90	114.00	51.00	64Kt Winds	86.25	978.00

Figure 9.33. Hurricane Scenario Wizard – Edit Storm Track Page.



Latitude (Degrees)	Longitude (Degrees)	Time (Hours)	Radius to 64/50/34 Knot Winds (miles)	Radius Type	Wind Speed (mph @ 10m)	Central Pressure (mBar)	Inland
32.90	-77.90	204.00	106.26	64Kt Winds	103.50	953.00	☐
34.50	-78.10	210.00	106.26	64Kt Winds	87.97	965.00	☑
36.10	-78.90	216.00	195.16	34Kt Winds	56.92	980.00	☑
37.30	-79.10	222.00	195.16	34Kt Winds	40.00	989.00	☑
							☐

Figure 9.34. Hurricane Scenario Wizard – Edit Storm Track Page After Deleting Excess Rows.

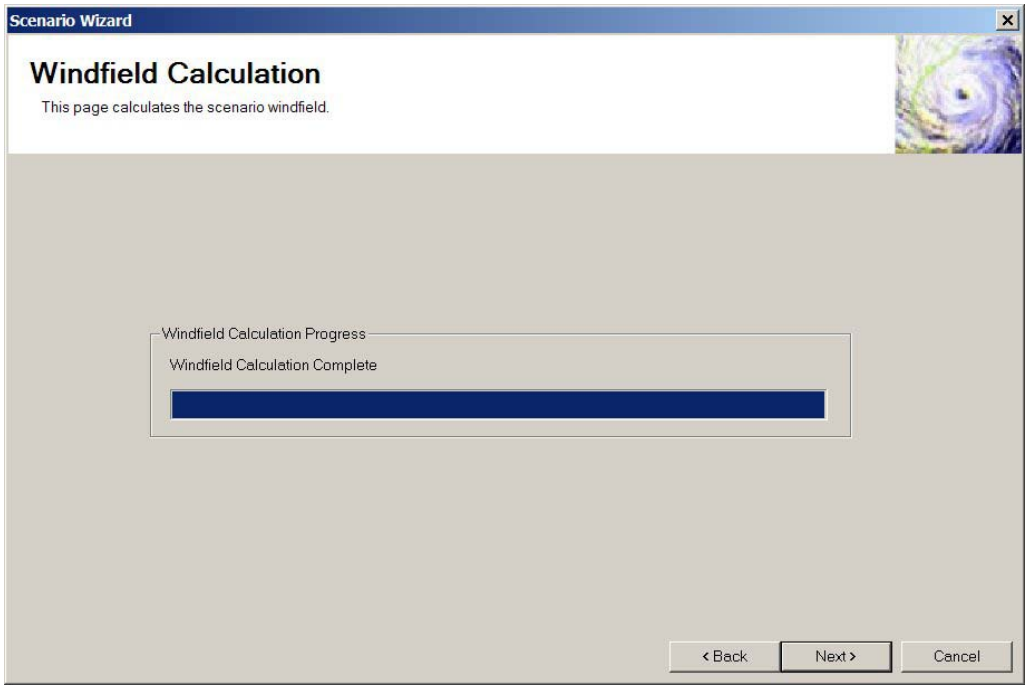


Figure 9.35. Hurricane Scenario Wizard – Windfield Calculation Page.

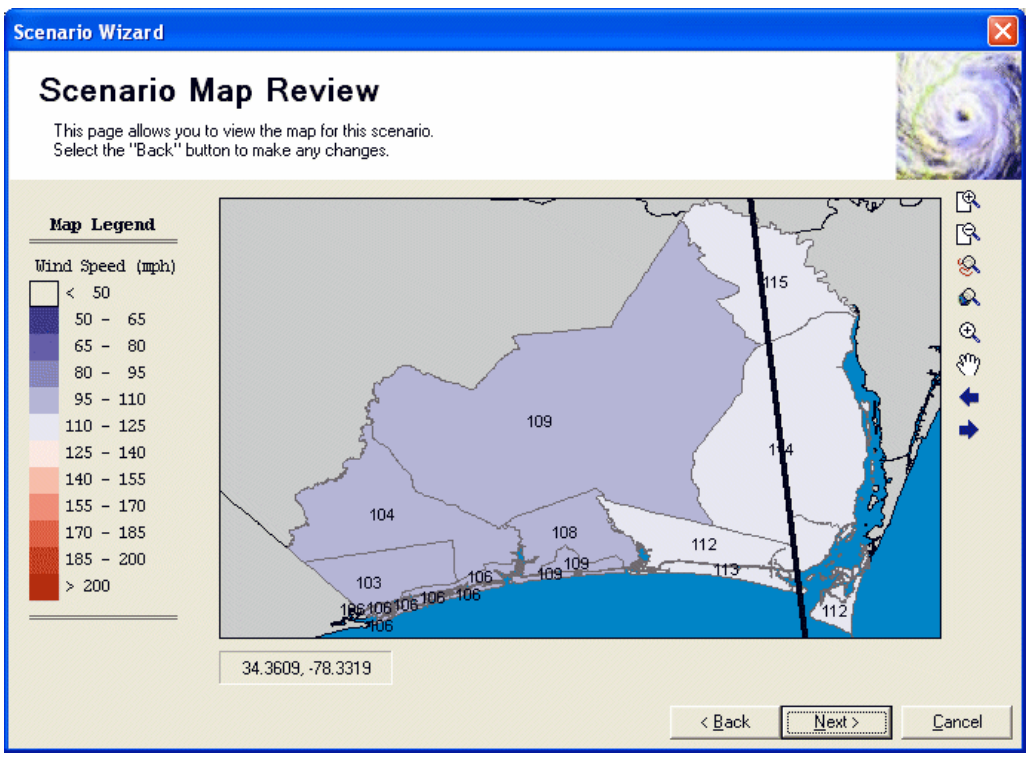


Figure 9.36. Hurricane Scenario Wizard – Map Review Page.

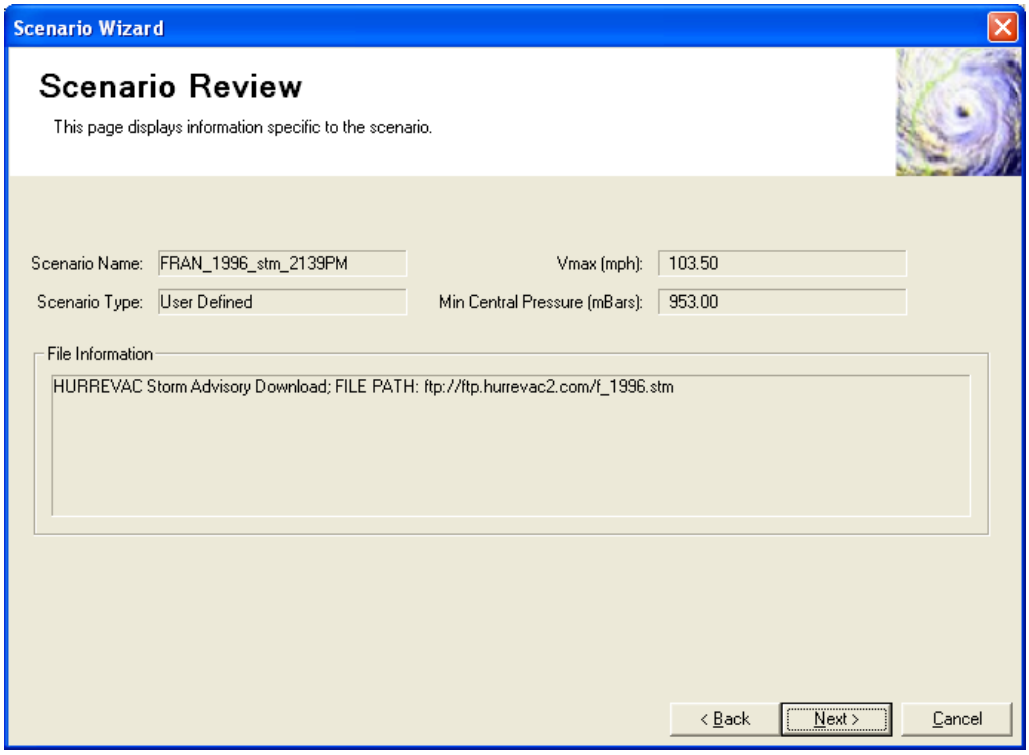


Figure 9.37. Hurricane Scenario Wizard – Scenario Review Page.

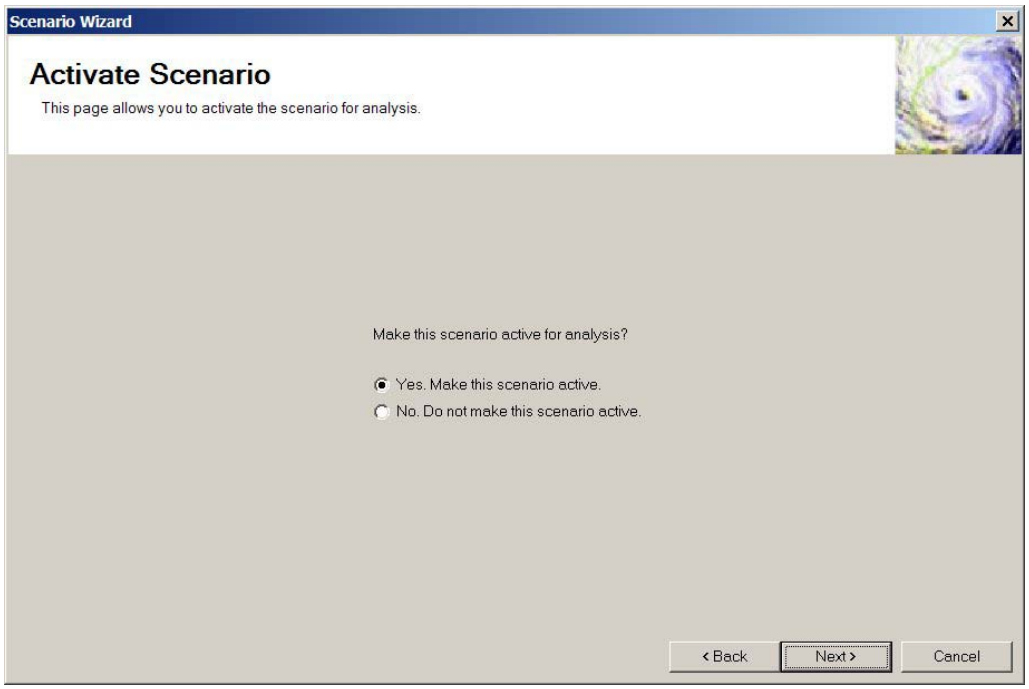


Figure 9.38. Hurricane Scenario Wizard – Activate Scenario Page.

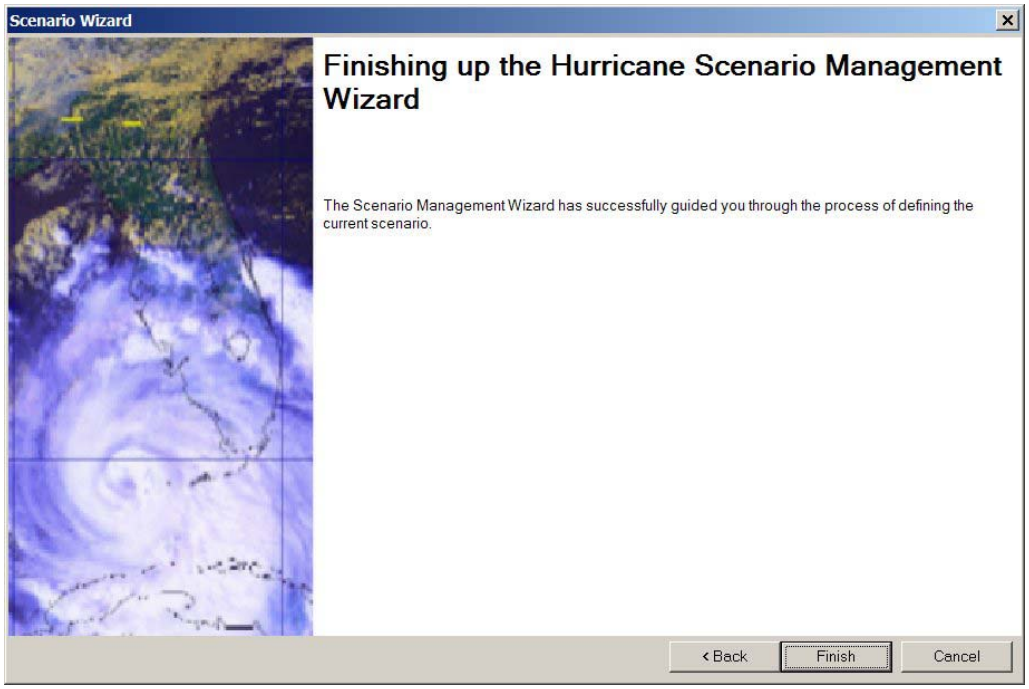


Figure 9.39. Hurricane Scenario Wizard – Completion Page.

9.3.2.5 Downloading a New Forecast/Advisory from the HurrEvac FTP Site

If the Forecast/Advisory that you need is not shown on the Storm Selection page of the Hurricane Scenario Wizard (see Section 9.3.2.4), you can download a new Forecast/Advisory from the HurrEvac FTP site using the following steps:

- Select the **Scenario** command from the **Hazard** menu. This brings up the Welcome Page of the Hurricane Scenario Wizard, shown previously in Figure 9.1.
- Click on the **Next** button.
- Select the **<Create New Scenario>** item in the Hurricane Scenarios list box, as shown previously in Figure 9.24, and then click on the **Next** button.
- Select *Import HurrEvac storm advisory* (shown previously in Figure 9.25) and click on the **Next** button.
- This brings up the Storm Selection page (shown previously in Figure 9.26). Select *Atlantic* (or *Central Pacific* if your study region is all or part of Hawaii) on the left side of the page.
- This populates the storm list (shown previously in Figure 9.27) with the names of the Forecast/Advisories available prior to the release of the software as well as any previously downloaded Forecast/Advisories. If the Forecast/Advisory you need is not on the list, click on the **FTP Download** button in the top right area of the Storm Selection page.

- This action will bring up the HurrEvac FTP Site Download dialog (Figure 9.40). Select *Atlantic Storms* (or *Central Pacific Storms* if your study region is all or part of Hawaii) on the left side of the dialog.
- IMPORTANT: If you do not have a working internet connection or if your local area network firewall prohibits you from accessing the HurrEvac FTP site, an error message will appear (Figure 9.41). If you are certain that you have a properly working internet connection, please check the HAZUS FAQ site or contact Technical Support for guidance on circumventing firewall problems.
- The list of available Forecast/Advisories will appear on the right hand side of the HurrEvac FTP Site Download dialog (Figure 9.42).
- Scroll down the list and select the storm you wish to download (Figure 9.43). The file naming convention is the first letter of the storm and the year of the storm. The names of active storms will include the latest Forecast/Advisory number as their file extension. Storms from prior years will have the extension "*.stm".
- Click on **Download**. This action will download the selected Forecast/Advisory. Click **OK** to return you to the Storm Selection page in the Hurricane Scenario Wizard.
- Select the storm from the list and click on **Next**. This action will display the Edit Storm Track page of the Hurricane Scenario Wizard (shown previously in Figure 9.33).
- If there are positions on the Forecast/Advisory storm track that are hundreds of miles from your study region, you can delete these rows from the table by selecting the appropriate rows, right clicking, and selecting "Delete Row". This step will speed up the processing of the Forecast/Advisory, but care should be taken to ensure enough points are left to properly compute the correct peak gust wind speeds in your entire study region (shown previously in Figure 9.34).
- After making any edits to the storm track, click on the **Next** button to initiate the windfield calculation (shown previously in Figure 9.35).
- When the windfield calculation is complete, click on the **Next** button.
- A map of the compute peak gust wind speeds will be displayed as shown previously in Figure 9.36. After reviewing the results, click on the **Next** button to continue.
- Next, a summary of the Forecast/Advisory scenario will be displayed, as shown previously in Figure 9.37. After reviewing the information, click on the **Next** button to continue.
- If you want to make the new scenario the active scenario, click on *Yes* on the Activate Scenario page (shown previously in Figure 9.38) and then click on the **Next** button.
- Click on **Finish** to exit the Hurricane Scenario Wizard (shown previously in Figure 9.39).

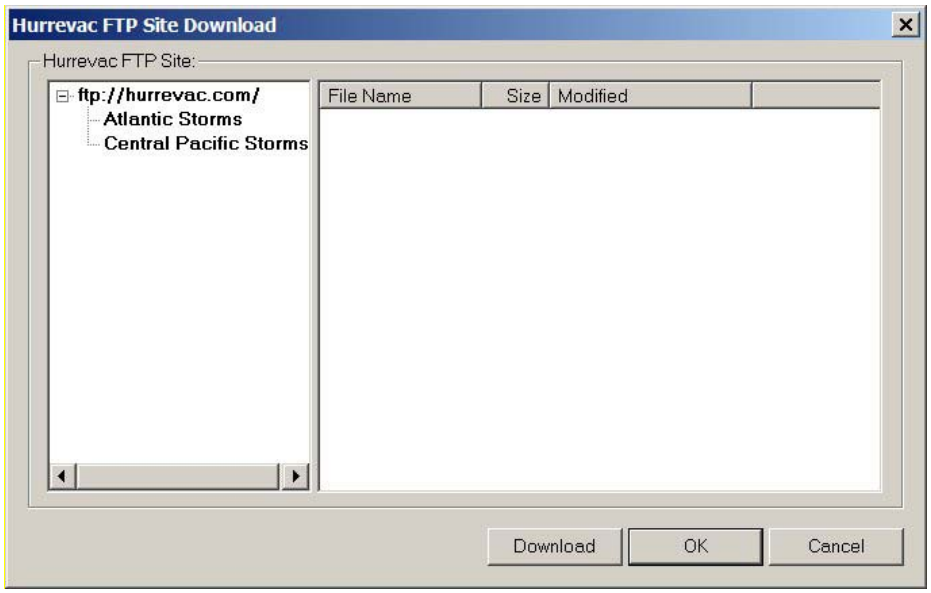


Figure 9.40. HurrEvac FTP Site Download Dialog.

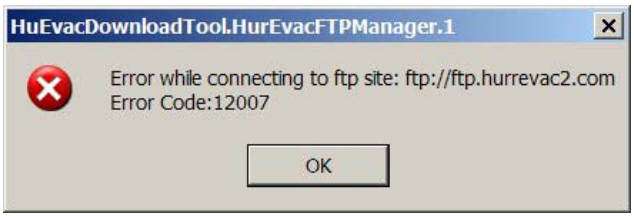


Figure 9.41. HurrEvac FTP Site Connection Error Dialog.

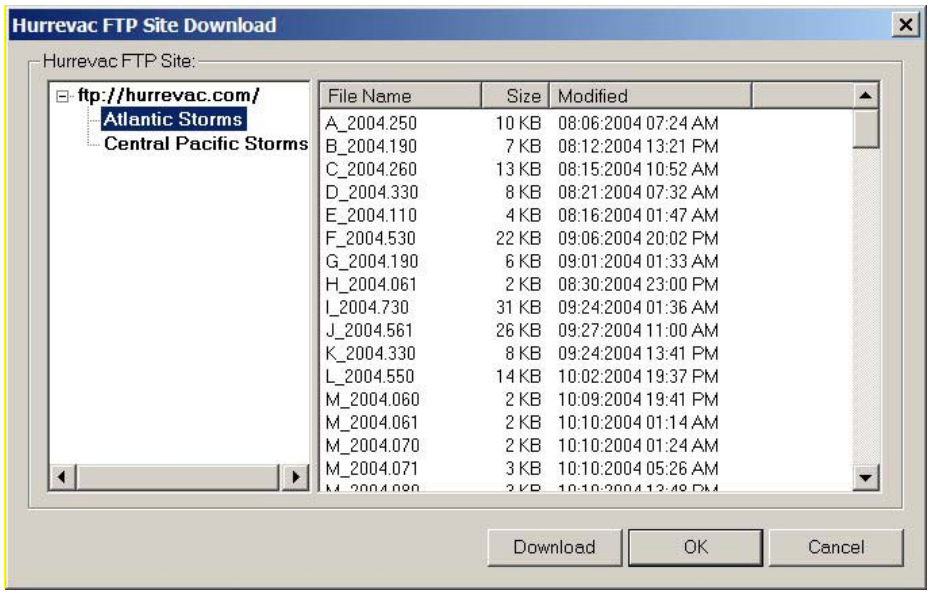


Figure 9.42. HurrEvac FTP Site Download Dialog with Atlantic Storms.

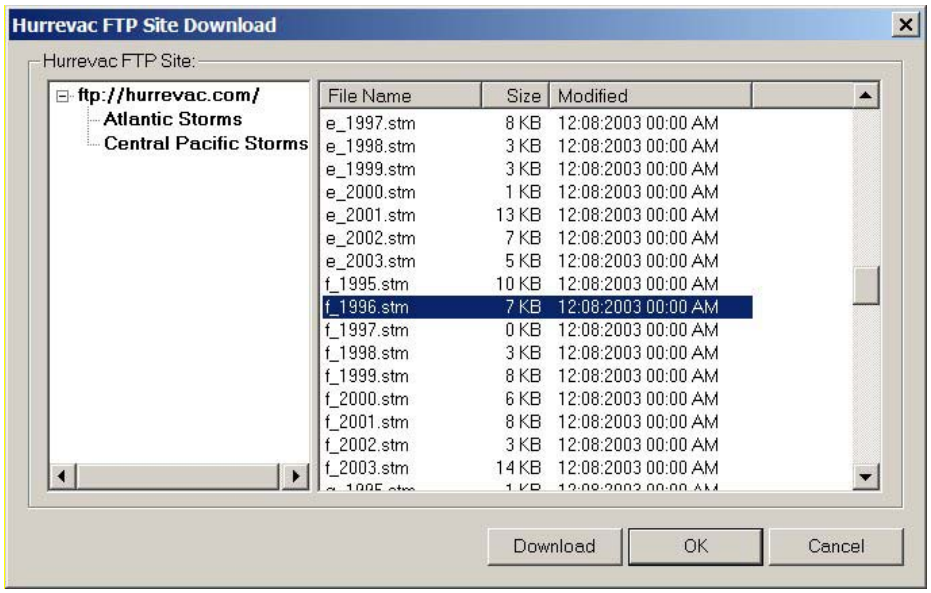


Figure 9.43. HurrEvac FTP Site Download Dialog with Selected Storm.

9.3.3 Viewing the Currently Defined Hazard

To view a summary of the currently active scenario, execute the **Hazard | Show Current** command. An example of the summary is shown in Figure 9.44.

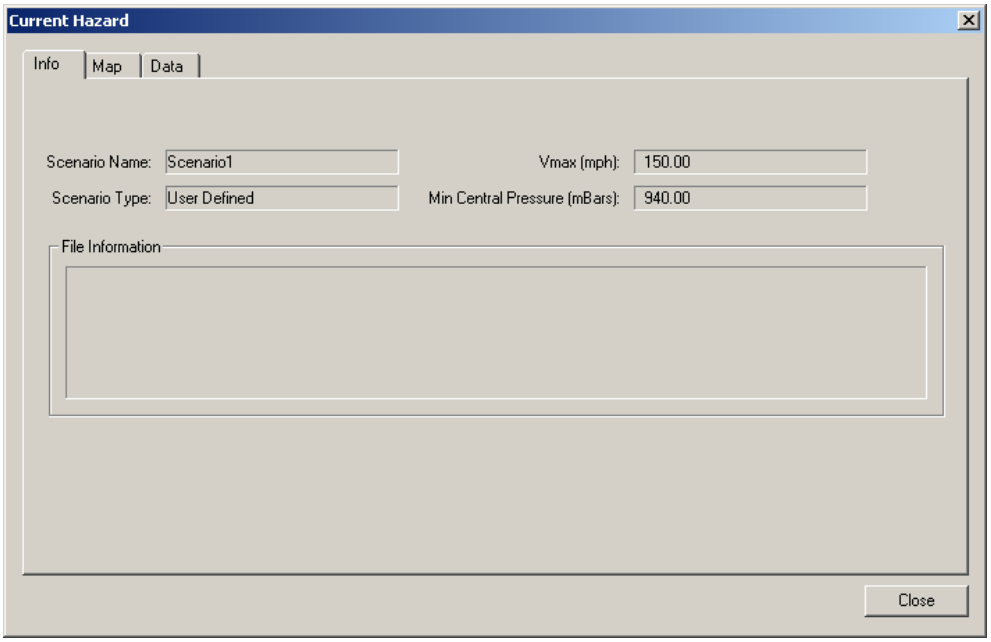


Figure 9.44. Current Hazard Dialog.

9.4 Viewing the Damage, Loss, and Debris Functions

There are four basic classes of analysis functions used in the Hurricane Model:

- Building damage functions.
- Building and contents loss functions.
- Building loss of use functions.
- Building debris functions.

These functions have been developed for all of the model building types in the Hurricane Model using the methodologies described in the *Technical Manual*. The resulting functions cannot be modified, but you can view each graphs of each function in the software. These views are described in the following sections.

9.4.1 Viewing the Building Damage Functions

The **Analysis | Building Damage Function** command displays graphs of the probabilities of four different damage states for each wind building type as a function of peak gust wind speed.

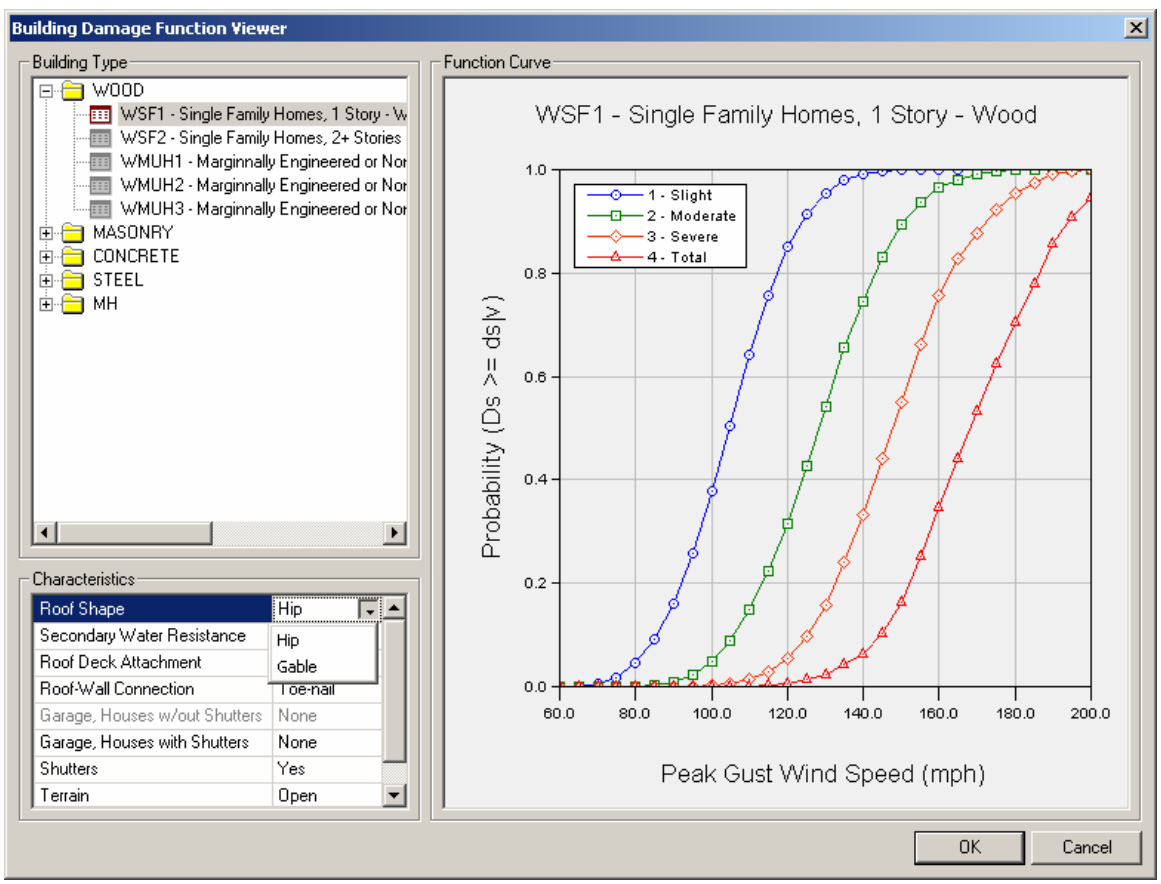


Figure 9.45. Building Damage Function Viewer.

9.4.2 Viewing the Building Loss Functions

The **Analysis | Building Loss Functions** command displays graphs of the building, contents, or combined loss ratios for each wind building type as a function of peak gust wind speed.

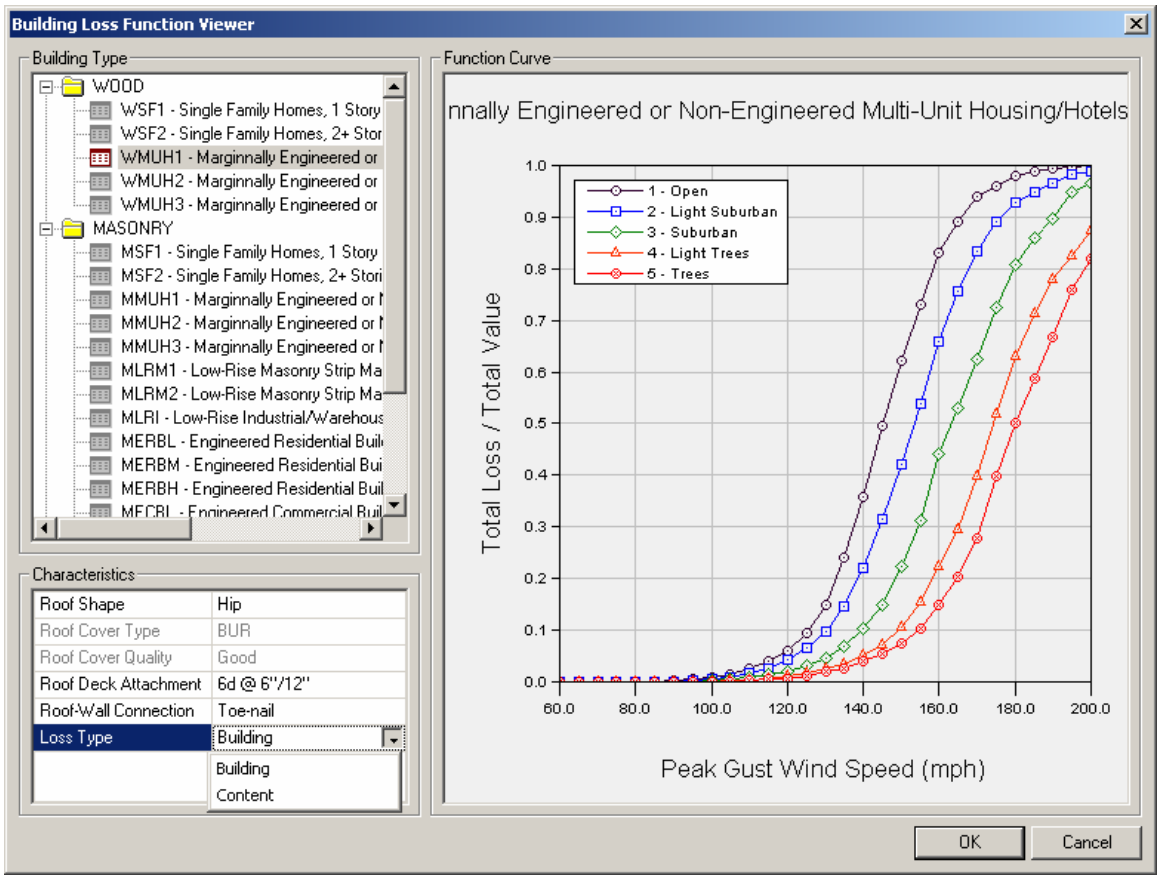


Figure 9.46. Building Loss Function Viewer.

9.4.3 Viewing the Loss of Use Functions

The **Analysis | Building Loss of Use Functions** command displays graphs of the expected number of days to restore the function of each wind building type as a function of peak gust wind speed.

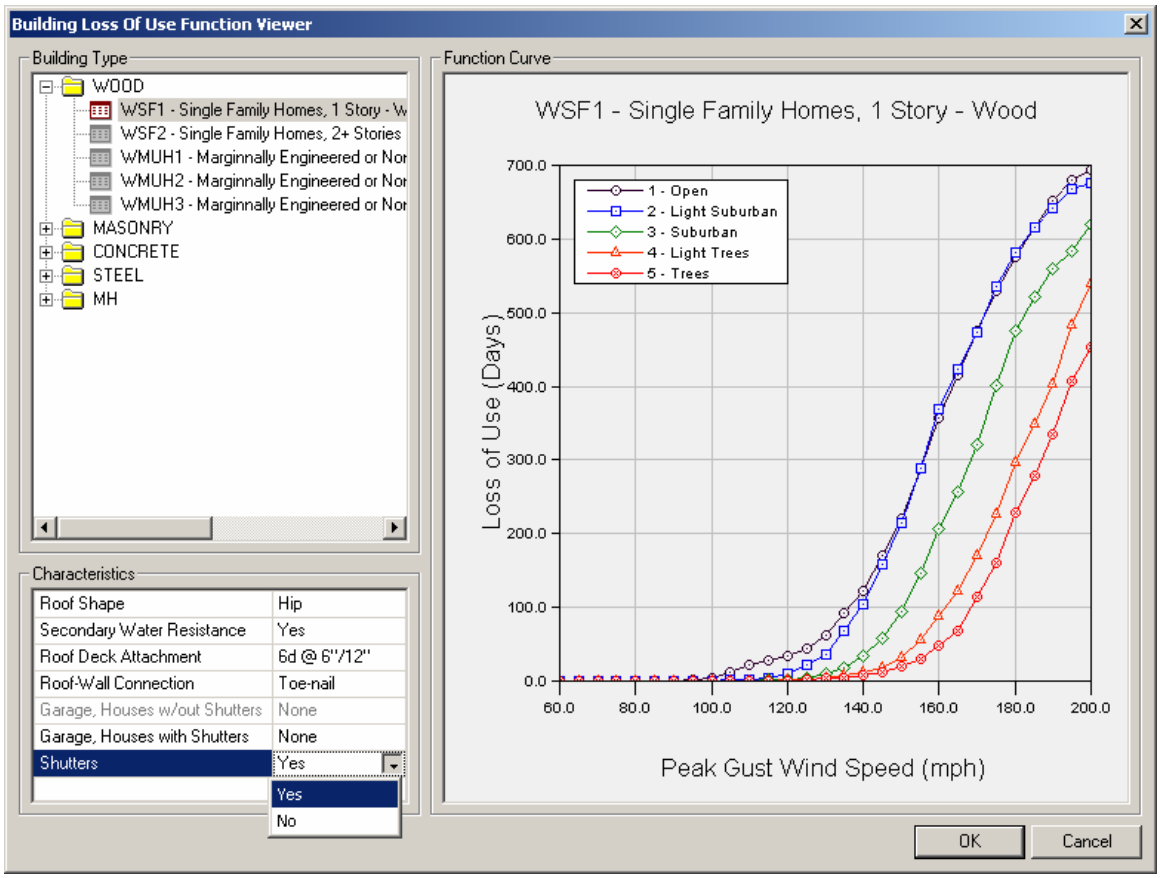


Figure 9.47. Loss of Use Function Viewer.

9.4.4 Viewing the Building Debris Functions

The **Analysis | Building Debris Functions** command displays graphs of the expected debris weights (per unit floor area) generated by each wind building type as a function of peak gust wind speed.

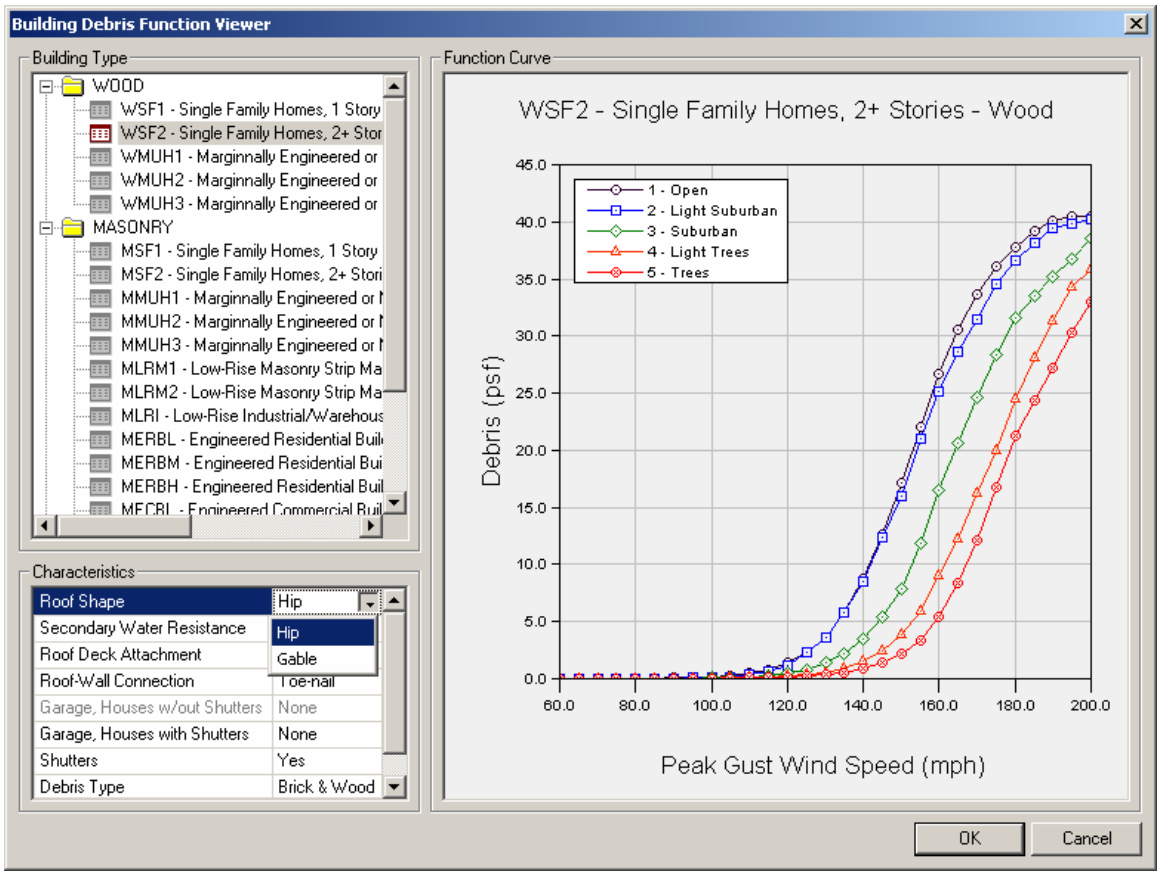


Figure 9.48. Debris Functions Viewer.

Building debris is divided into two types:

- Debris Type 1 – Brick, wood and other debris
- Debris Type 2 – Reinforced concrete and steel members

The first type of debris includes everything except wrecked reinforced concrete and steel members. It would include glass, furniture, equipment, and plaster walls, as well as brick and wood. The difference in these two types of debris is that Type 1 can be moved and broken up with a bulldozer or hand held tools. Type 2 would require special treatment to break up the long steel members or the large pieces of concrete before they could be transported. It is likely cranes and other heavy equipment would be needed.

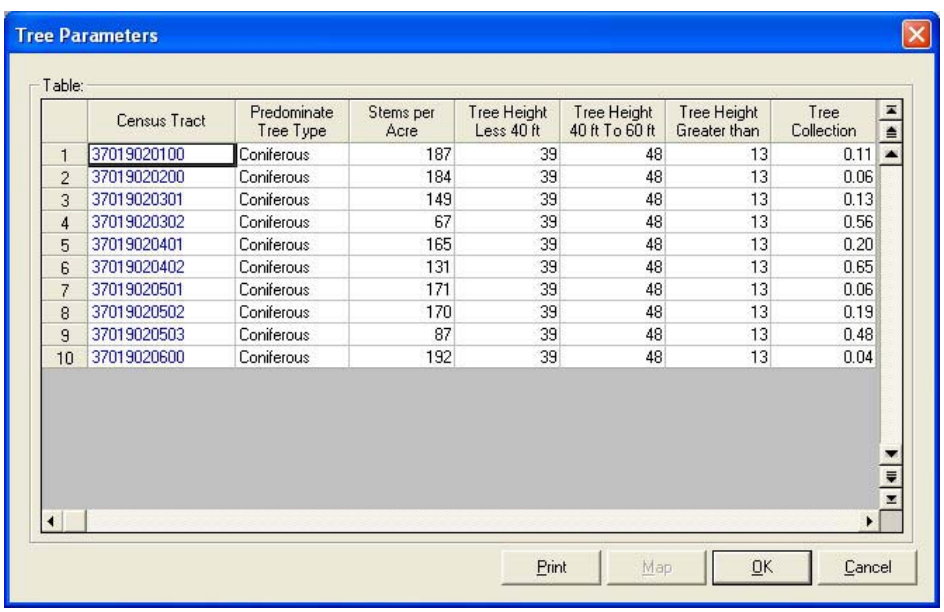
9.5 Setting the Analysis Parameters

9.5.1 Defining Tree Coverage Data

The Tree Coverage browser allows you to view, map, and edit the type, density, and height distribution of trees as well as the tree debris collection factor for each census tract. The tree blow down model is used to estimate tree debris and added losses to single-family housing due to tree impacts. Note that the tree blow down model only considers trees over 30 feet in height. The applicable tree types are:

- Coniferous (>75% evergreens)
- Deciduous (>75% deciduous)
- Mixed

The Tree Collection factor is a number between zero and one representing the fraction of downed trees that would likely be collected and disposed at public expense. In sparsely developed census tracts, the tree collection factor should tend towards zero; whereas in heavily developed census tracts, the tree collection factor should tend towards one. The methodology used to develop the default tree parameters is described in Chapter 12 of the HAZUS Hurricane Technical Manual.

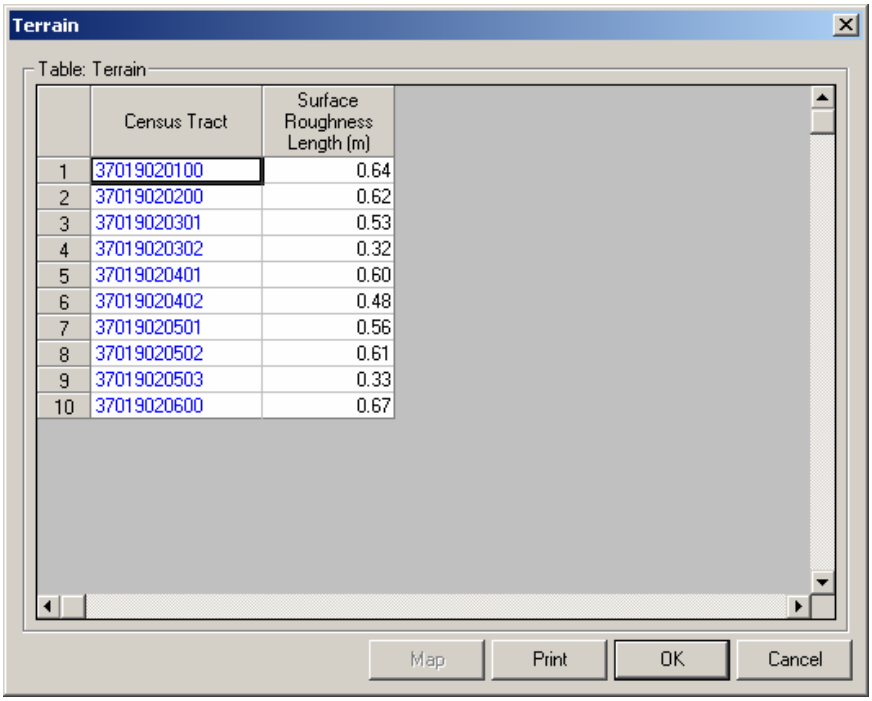


	Census Tract	Predominate Tree Type	Stems per Acre	Tree Height Less 40 ft	Tree Height 40 ft To 60 ft	Tree Height Greater than	Tree Collection
1	37019020100	Coniferous	187	39	48	13	0.11
2	37019020200	Coniferous	184	39	48	13	0.06
3	37019020301	Coniferous	149	39	48	13	0.13
4	37019020302	Coniferous	67	39	48	13	0.56
5	37019020401	Coniferous	165	39	48	13	0.20
6	37019020402	Coniferous	131	39	48	13	0.65
7	37019020501	Coniferous	171	39	48	13	0.06
8	37019020502	Coniferous	170	39	48	13	0.19
9	37019020503	Coniferous	87	39	48	13	0.48
10	37019020600	Coniferous	192	39	48	13	0.04

Figure 9.49. Tree Parameters.

9.5.2 Defining Terrain Data

The Terrain browser allows you to view, map, and edit the surface roughness values for each census tract.



	Census Tract	Surface Roughness Length (m)
1	37019020100	0.64
2	37019020200	0.62
3	37019020301	0.53
4	37019020302	0.32
5	37019020401	0.60
6	37019020402	0.48
7	37019020501	0.56
8	37019020502	0.61
9	37019020503	0.33
10	37019020600	0.67

Figure 9.50. Terrain Browser.

If you are considering modifying the default terrain, it is strongly recommended that you consult with a wind engineer.

9.5.3 Defining the Shelter Parameters

Hurricanes can cause loss of habitability of buildings that contain housing units resulting in predictable numbers of displaced households. These households will need alternative short-term shelter from family, friends, or public shelters provided by relief organizations such as the Red Cross and Salvation Army. For units where repair takes longer than a few weeks, long-term alternative housing can be achieved through importation of mobile homes, a reduction in vacant units, net emigration from the impacted area, and eventually by the repair or reconstruction of new public and private housing. While the number of people seeking short-term public shelter is of great concern to emergency response organizations, the longer-term impacts on the housing stock are of great concern to local governments. The shelter module provides two estimates:

- The total number of displaced households (due to loss of habitability)
- The number of people requiring short-term shelter

Loss of habitability is calculated directly from damage to the residential occupancy inventory and from loss of water and power. The methodology for calculating short-term shelter requirements recognizes that only a portion of those displaced from their homes will seek public shelter, and some will seek shelter even though their residence may have little, if any, damage.

All households living in uninhabitable dwellings will seek alternative shelter. Many will stay with friends and relatives or in the family car. Others will stay in hotels. Some will stay in public shelters provided by the Red Cross or others. HAZUS estimates the number of displaced persons seeking public shelter. In addition, observations from past disasters show that approximately 80% of the pre-disaster homeless will seek public shelter. Finally, data from Northridge indicate that approximately one-third of those in public shelters came from residences with no or insignificant structural damage. Depending on the degree to which infrastructure damage is incorporated into the number of displaced households, that number could be increased by up to 50% to account for "perceived" structural damage as well as lack of water and power.

9.5.3.1 Development of Input for Displaced Households

The following inputs are required to compute the number of uninhabitable dwelling units and the number of displaced households:

- Fraction of dwelling units likely to be vacated if damaged.
- Percentage of households affected by utility outages likely to seek alternative shelter.

9.5.3.2 Fraction of Dwelling Units Likely to be Vacated if Damaged

The number of uninhabitable dwelling units is not only a function of the amount of damage but it is also a function of the number of damaged units that are perceived to be uninhabitable by their occupants. All dwelling units located in buildings that are in the complete damage state are considered to be uninhabitable. In addition, dwelling units that are in moderately or extensively damaged multi-family structures can also be uninhabitable due to the fact that renters perceive some moderately damaged and most extensively damaged rental property as uninhabitable. On the other hand, those living in single-family homes are much more likely to tolerate damage and continue to live in their homes. A discussion of how the number of uninhabitable dwelling units is estimated in the Hurricane Model is available in the *Technical Manual*.

9.5.3.3 Percentage of Households Affected by Utility Outages Likely to Seek Alternative Shelter

Families living in undamaged households affected by utility outages may seek alternative shelter. Because the current version of the Hurricane Model does not estimate utility outages and no data exist on the impact of utility outages on perceived habitability, this assessment has been left to the user as part of the analysis. The percent of households seeking alternative shelter due to utility outages can be modified in the Shelter Parameters window shown in Figure 9.51.

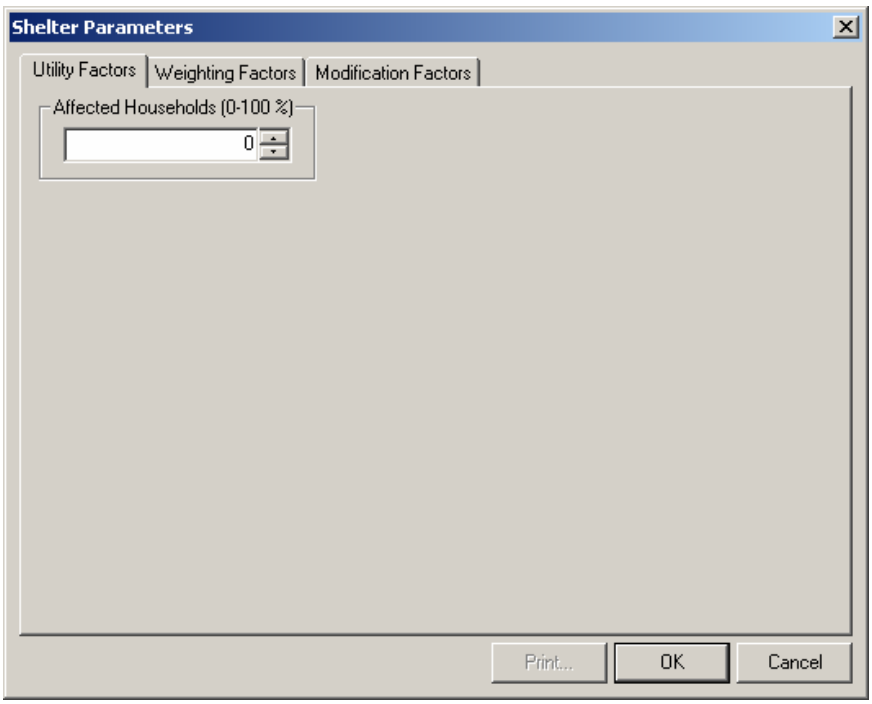


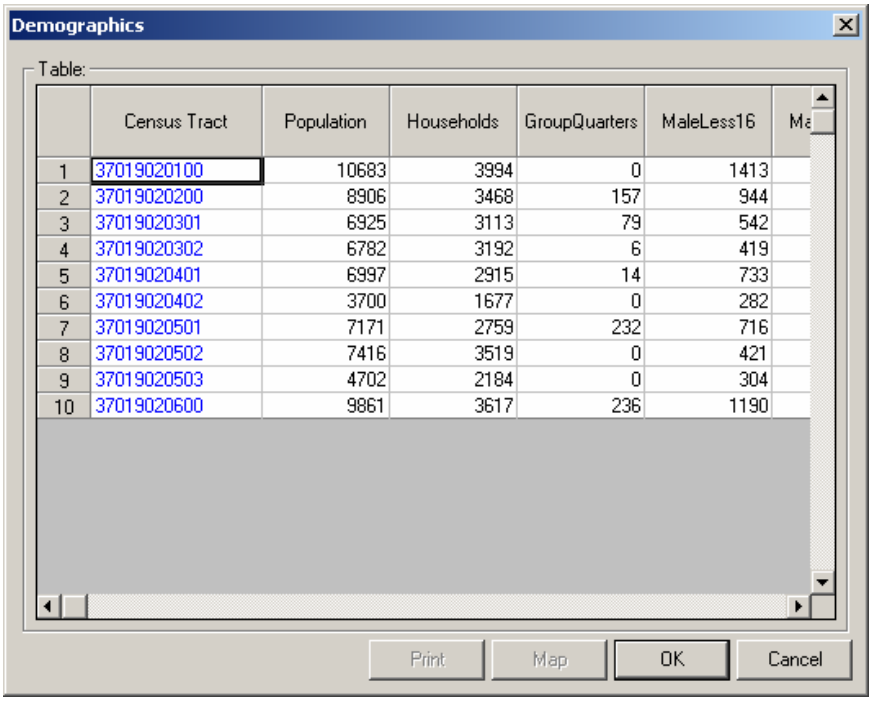
Figure 9.51. Utility Factors in the Shelter Parameters Window.

9.5.3.4 Development of Inputs for Shelter Needs

The number of displaced households is combined with the following information to estimate shelter needs:

- Number of people in the census tract
- Number of households in census tract
- Income breakdown of households in census tract
- Ethnicity of households in census tract
- Percentage of homeowners and renters in the census tract
- Age breakdown of households in census tract

All of this information is provided in the default census database. The default census database can be viewed, modified and mapped in the inventory module as shown in Figure 9.52.



	Census Tract	Population	Households	GroupQuarters	MaleLess16	Ma
1	37019020100	10683	3994	0	1413	
2	37019020200	8906	3468	157	944	
3	37019020301	6925	3113	79	542	
4	37019020302	6782	3192	6	419	
5	37019020401	6997	2915	14	733	
6	37019020402	3700	1677	0	282	
7	37019020501	7171	2759	232	716	
8	37019020502	7416	3519	0	421	
9	37019020503	4702	2184	0	304	
10	37019020600	9861	3617	236	1190	

Figure 9.52. Demographic Data Supplied in HAZUS.

Assumptions of the methodology are that the number of people who require short-term housing is a function of income, ethnicity, ownership and age. Based on experience in past disasters, including both hurricanes and earthquakes, those seeking shelter typically have very low incomes, and therefore have fewer options. In addition, they tend to have young children or are over 65. Finally, even given similar incomes, Hispanic populations from Central America and Mexico tend to be more concerned about reoccupying buildings than other groups. This tendency appears to be because of the fear of collapsed buildings instilled from past disastrous earthquakes.

To account for these trends, factors have been developed to represent the fraction of households in each category likely to seek public shelter if their dwellings become uninhabitable. The default values of these factors as shown in Table 9.1 are based upon data from the Northridge earthquake combined with expert opinion (see the *Technical Manual* for more information). From this table you can interpret that 62% of households with incomes less than $10,000 whose dwellings have become uninhabitable will seek public shelter.

The factors in Table 9.1 can be viewed and modified in the **Shelter Parameters** window as shown in Figure 9.53. The **Income**, **Ethnicity**, **Ownership** and **Age** buttons can be used to view the various tables.

Table 9.1. Fraction of Households Likely to Seek Public Shelter if Dwellings Become Uninhabitable

Household Description	Default
Income	
Household Income < $10,000	0.62
$10,000 < Household Income < $20,000	0.42
$20,000 < Household Income < $30,000	0.29
$30,000 < Household Income < $40,000	0.22
$40,000 < Household Income	0.13
Ethnicity	
White	0.24
Black	0.48
Hispanic	0.47
Asian	0.26
Native American	0.26
Ownership	
Own Dwelling Unit	0.40
Rent Dwelling Unit	0.40
Age	
Population Under 16 Years Old	0.40
Population Between 16 and 65 Years Old	0.40
Population Over 65 Years Old	0.40

You have the option to weight the importance of the four factors that affect the fraction of households seeking public shelter: income, ethnicity, ownership and age. The **importance factors** must sum to one. Defaults of the importance factors are shown in Figure 9.54. The default importance factors indicate that no weight will be put on ownership or age, and income will be weighted almost 3 times as much as ethnicity. If you wish to give all classes equal importance, then the factors should all be 0.25.

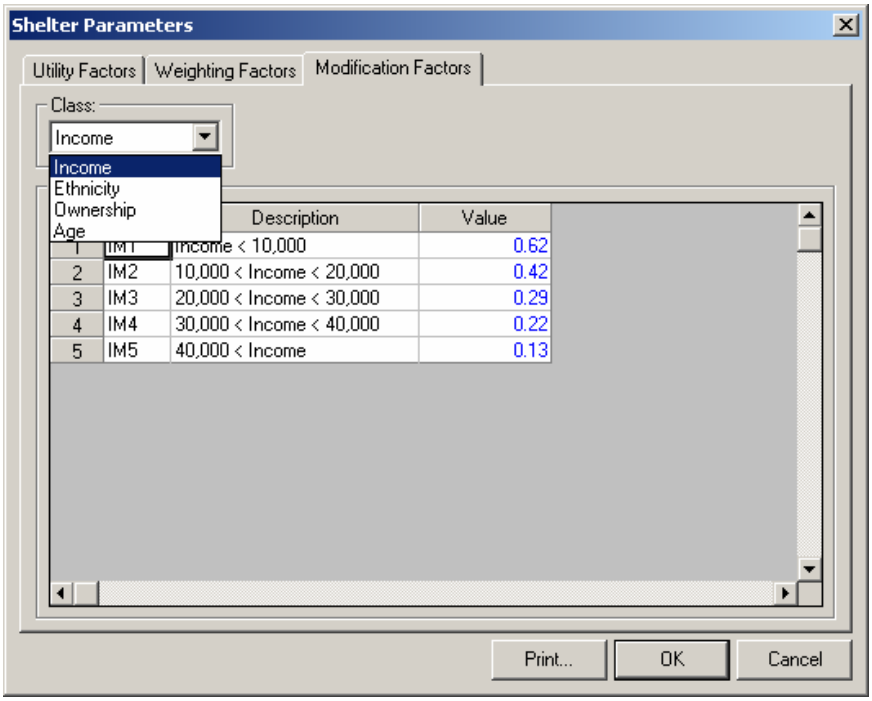


Figure 9.53. Fraction of Households Likely to Seek Public Shelter as a Function of Household Income.

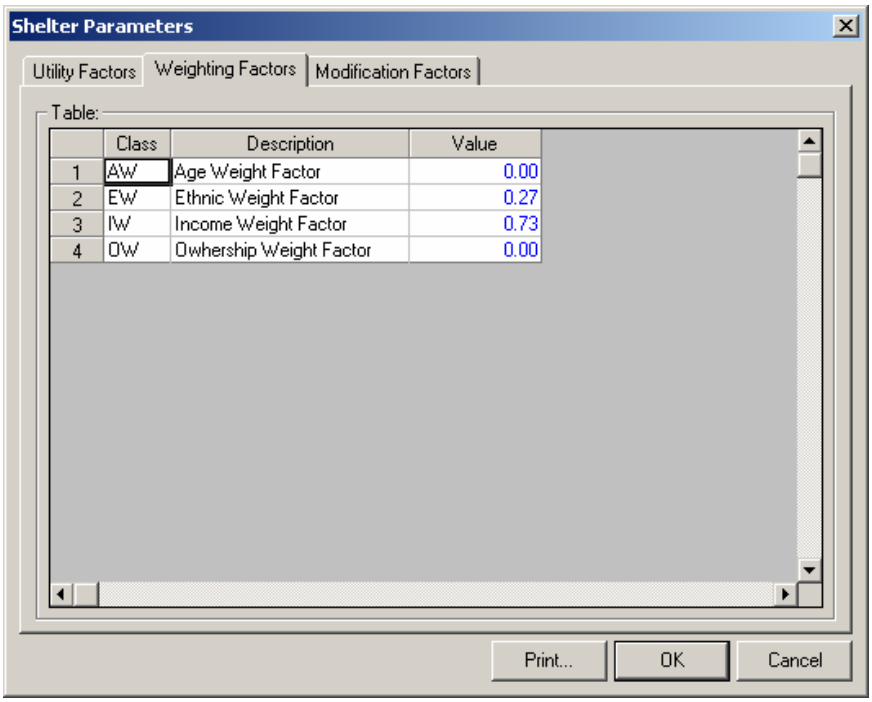


Figure 9.54. Importance Factors for Determining Shelter Needs.

9.5.4 Defining the Buildings Economic Parameters

Estimates of damage to the built environment are converted to dollar loss in this module. Beyond economic losses, whose dollar value can be estimated from the extent of building and lifeline damage, there are a number of common socioeconomic impacts from hurricanes that, though their impact is not readily quantifiable, may represent important hurricane effects. These impacts may vary, depending on socioeconomic aspects of the population at risk and the particular physical topography and layout of the affected region. These are impacts such as:

- Psychological and emotional trauma that may affect a variety of populations, such as school children, ethnic groups, recent immigrants, the elderly and the infirm. These effects may influence post-hurricane behavior, for example in the choice of or need for shelter, and require the deployment of large-scale psychological and counseling services. Some of these effects may be of long duration, and may affect children's behavior and adult family and work efficiency.
- Changes in community and family structure caused by large-scale housing losses and consequent relocation and demolition.

This methodology does not attempt to estimate such effects. If the user of the methodology is interested in the possible impact of such effects on the community or region under study, it is recommended that they begin by consulting bibliographic sources to obtain an understanding of the possible importance of these impacts for the area of study. A useful discussion of many of these impacts can be found in "The Loma Prieta, California, Earthquake of October 17, 1989 - Public Response" (Bolton, 1993). This publication has bibliographic references that may be useful for further study.

9.5.4.1 Types of Direct Economic Loss

Direct economic losses begin with the cost of repair and replacement of damaged or destroyed buildings. However, building damage will result in a number of consequential losses that, in HAZUS, are defined as direct. Thus, building-related direct economic losses (which are all expressed in dollars) comprise two groups. The first group consists of losses that are directly derived from building damage:

- Cost of repair and replacement of damaged and destroyed buildings
- Costs of damage to building contents
- Losses of building inventory (contents related to business activities)

The second group consists of losses that are related to the length of time the facility is non-operational (or the immediate economic consequences of damage):

- Relocation expenses (for businesses and institutions)
- Capital-related income losses (a measure of the loss of productivity, services or sales)
- Wage losses (consistent with income loss)
- Rental income losses (to building owners)

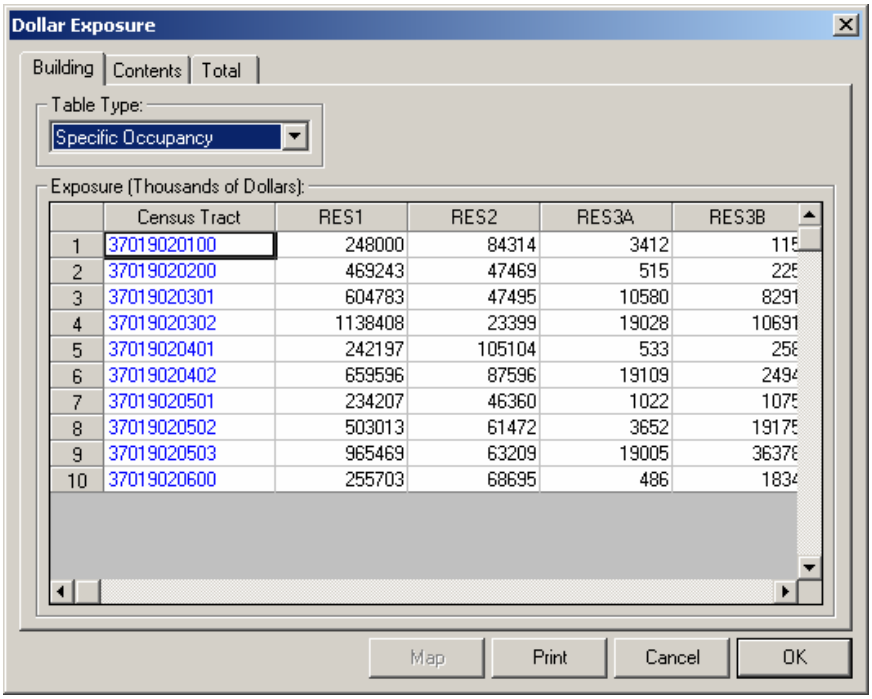
9.5.4.2 Development of Input for Building Losses

A great deal of default economic data is supplied with HAZUS, as follows:

- Building replacement values by census tract for all occupancies
- Contents values by census tract for all occupancies
- Annual gross sales or production in $ per square foot for agricultural, commercial and industrial occupancies
- Business inventory as a percentage of gross annual sales for agricultural, commercial and industrial occupancies
- Business inventory damage as a function of damage state for agricultural, commercial and industrial occupancies
- Building cleanup and repair time in days as a function of wind building type
- Rental costs
- Disruption costs
- Percent of buildings that are owner occupied for each occupancy class
- Capital-related income and wage income in $/day per square foot for each occupancy

These data are described in detail in the *Technical Manual*. With the exception of building and contents value, the default data represent typical values for the United States and thus no regional variations are included. You should review the default data very carefully and modify the data to best represent the characteristics of your region.

The default economic data can be viewed and modified from within HAZUS. The window that is used to view and modify the building replacement values and building contents values is shown in Figure 9.55. The values shown in this window are common to all three hazards and are accessed from the **Inventory | General Building Stock | Dollar Exposure** menu. To modify the data, make sure that **Table Type** is set to "Specific Occupancy". The Dollar Exposure data cannot be modified when viewed by general occupancy, general building type, or specific building type.



	Census Tract	RES1	RES2	RES3A	RES3B
1	37019020100	248000	84314	3412	115
2	37019020200	469243	47469	515	225
3	37019020301	604783	47495	10580	8291
4	37019020302	1138408	23399	19028	10691
5	37019020401	242197	105104	533	258
6	37019020402	659596	87596	19109	2494
7	37019020501	234207	46360	1022	1075
8	37019020502	503013	61472	3652	19175
9	37019020503	965469	63209	19005	36378
10	37019020600	255703	68695	486	1834

Figure 9.55. Building Replacement Value and Building Contents Value.

9.5.4.3 Building Replacement Costs

The replacement costs (damage state = complete) were derived from Means Square Foot Costs 2005, for Residential, Commercial, Industrial, and Institutional buildings. The Means publication is a nationally accepted reference on building construction costs, which is published annually. This publication provides cost information for a number of low-rise residential model buildings, and for 70 other residential, commercial, institutional and industrial buildings. These are presented in a format that shows typical costs for each model building, showing variations by size of building, type of building structure, and building enclosure. One of these variations is chosen as "typical" for this typical model, and a breakdown is provided that shows the cost and percentages of each building system or component. A description of how to estimate costs from the Means publication is found in the *Flood Model Technical Manual*.

In HAZUS, selected Means models have been chosen from the 70 plus models that represent the 33 occupancy types. The wide range of costs shown, even for a single model, emphasize the importance of understanding that the dollar values shown should only be used to represent costs of large aggregations of building types. If costs for single buildings or small groups (such as a college campus) are desired for more detailed loss analysis, then local building specific cost estimates should be used.

9.5.4.4 Building Contents

Building contents are defined as furniture, equipment that is not integral with the structure, computers, and supplies. Contents do not include inventory or non-structural

components such as lighting, ceilings, mechanical and electrical equipment and other fixtures. Default values are provided for contents (by occupancy) as a percentage of the replacement value of the facility. These values are based on Table 4.11 of ATC-13 (ATC, 1985).

The window that is used to view and modify the other economic default data is shown in Figure 9.56. This window is accessed from the **Analysis | Parameters | Buildings Economic** menu.

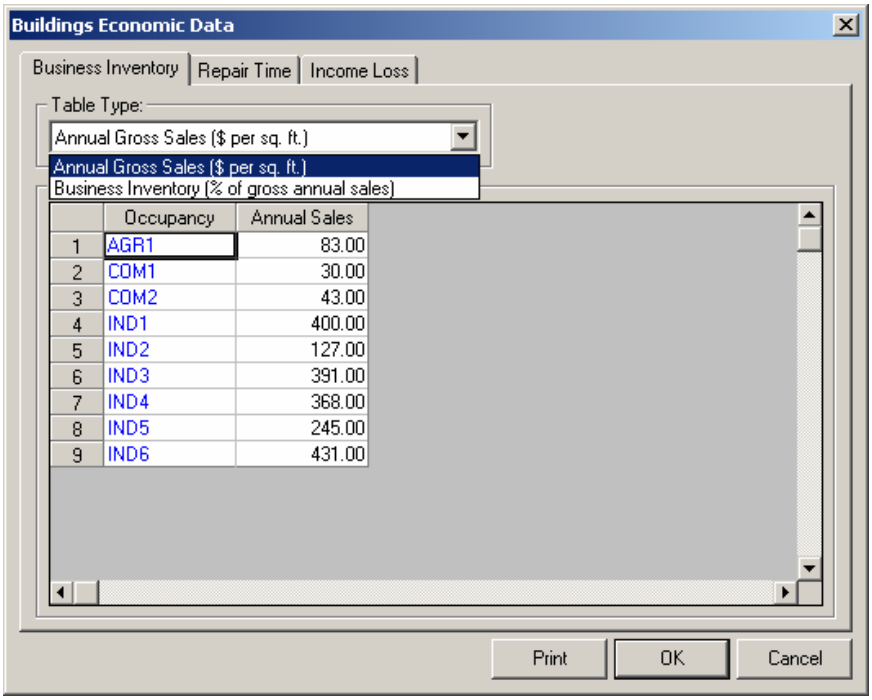


Figure 9.56. Economic Data for Estimating Business Inventory Losses, Lost Income and Relocation Costs.

9.5.4.5 Business Inventory

Business inventories vary considerably with occupancy. For example, the value of inventory for a high tech manufacturing facility would be very different from that of a retail store. Thus, the default values of business inventory for this model are derived from annual gross sales by assuming that business inventory is some percentage of annual gross sales. These default values are based on judgment.

9.5.4.6 Repair and Clean-up Times

The time to repair a damaged building can be divided into two parts: construction and clean-up time, and time to obtain financing, permits and complete a design. For the lower damage states, the construction time will be close to the real repair time. At the higher damage levels, a number of additional tasks must be undertaken that typically will

considerably increase the actual repair time. These tasks, which may vary considerably in scope and time between individual projects, include:

- Decision-making (related to businesses of institutional constraints, plans, financial status, etc.)
- Negotiation with FEMA (for public and non-profit), Small Business Administration, etc.
- Negotiation with insurance company, if insured
- Obtaining financing
- Contract negotiation with design firms(s)
- Detailed inspections and recommendations
- Preparation of contract documents
- Obtaining building and other permits
- Bidding/negotiating construction contract
- Start-up and occupancy activities after construction completion

Building repair and clean-up estimates are provided with HAZUS. These values include both the time to do the actual construction or repair and the additional delays described above. All of these factors are built into the Building Loss of Use functions described previously in Section 9.4.3. These functions represent estimates of the median times for actual cleanup and repair

However, repair time does not translate directly into business or service interruption. For some businesses, building repair time is largely irrelevant, because these businesses can rent alternative space or use spare industrial/commercial capacity elsewhere. Thus Building Repair Time Multipliers have been developed to arrive at estimates of business interruption for economic purposes. These values are multiplied by the building cleanup and repair times. Building Repair Time Multipliers can be viewed using the window shown in Figure 9.57.

Applying the building repair time multipliers to the building clean up and repair times results in average values for the business or service interruption. For low levels of damage the time loss is assumed to be short, with cleanup by staff, and work can resume while slight repairs are being done. For most commercial and industrial businesses that suffer moderate or extensive damage, the default business interruption time is short on the assumption that businesses will find alternate ways of continuing their activities. Churches will generally find temporary accommodation quickly, and government offices will also resume operating almost at once. It is assumed that hospitals and medical offices can continue operating, perhaps with some temporary rearrangement and departmental relocation, after sustaining moderate damage. However, with extensive damage their loss of function time is assumed to be equal to the total time for repair. For other businesses and facilities, the interruption time is assumed to be equal to, or approaching, the total

Buildings Economic Data

Business Inventory | Repair Time | Income Loss

Table:

	Occupancy	0 % Loss	2 % Loss	10 % Loss	50 % Loss	100 % Loss
1	AGR1	0.00	0.00	0.05	0.10	0.20
2	COM1	0.50	0.10	0.10	0.30	0.40
3	COM10	0.50	0.10	1.00	1.00	1.00
4	COM2	0.10	0.10	0.20	0.30	0.40
5	COM3	0.50	0.10	0.20	0.30	0.40
6	COM4	0.50	0.10	0.10	0.20	0.30
7	COM5	0.50	0.10	0.05	0.03	0.03
8	COM6	0.50	0.10	0.50	0.50	0.50
9	COM7	0.50	0.10	0.50	0.50	0.50
10	COM8	0.50	0.10	1.00	1.00	1.00
11	COM9	0.50	0.10	1.00	1.00	1.00
12	EDU1	0.50	0.10	0.02	0.05	0.05
13	EDU2	0.50	0.10	0.02	0.03	0.03
14	GOV1	0.50	0.10	0.02	0.03	0.03
15	GOV2	0.50	0.10	0.02	0.03	0.03
16	IND1	0.50	0.50	1.00	1.00	1.00
17	IND2	0.50	0.10	0.20	0.30	0.40
18	IND3	0.50	0.20	0.20	0.30	0.40
19	IND4	0.50	0.20	0.20	0.30	0.40
20	IND5	0.50	0.20	0.20	0.30	0.40
21	IND6	0.50	0.10	0.20	0.30	0.40
22	REL1	1.00	0.20	0.05	0.03	0.03
23	RES1	0.00	0.00	0.50	1.00	1.00
24	RES2	0.00	0.00	0.50	1.00	1.00
25	RES3A	0.00	0.00	0.50	1.00	1.00
26	RES3B	0.00	0.00	0.50	1.00	1.00
27	RES3C	0.00	0.00	0.50	1.00	1.00
28	RES3D	0.00	0.00	0.50	1.00	1.00
29	RES3E	0.00	0.00	0.50	1.00	1.00
30	RES3F	0.00	0.00	0.50	1.00	1.00
31	RES4	0.00	0.00	0.50	1.00	1.00
32	RES5	0.00	0.00	0.50	1.00	1.00
33	RES6	0.00	0.00	0.50	1.00	1.00

Print | OK | Cancel

Figure 9.57. Default Building Repair Time Multipliers.

time for repair. This applies to residential, entertainment, theater, parking, and religious facilities whose revenue or continued service is dependent on the existence and continued operation of the facility.

The median value of repair time applies to a large inventory of facilities. At moderate damage some marginal businesses may close, while others will open after a day's cleanup. Even with extensive damage some businesses will accelerate repair, while a number of others will close or be demolished.

9.5.4.7 Relocation Expenses

Relocation costs may be incurred when the level of building damage is such that the building or portions of the building are unusable while repairs are being made. While relocation costs may include a number of expenses, HAZUS only considers disruption costs that may include the cost of shifting and transferring and the rental of temporary space. Relocation expenses are assumed to be incurred only by building owners and

measured in $ per square foot per month. A renter who has been displaced from a property due to earthquake damage will cease to pay rent to the owner of the damaged property and will only pay rent to the new landlord. Therefore, the renter has no new rental expenses. It is assumed that the owner of the damaged property will pay the disruption costs for his renter. If the damaged property is owner occupied, then the owner will have to pay for his own disruption costs in addition to the cost of rent while he is repairing his building. Relocation expenses are then a function of the floor area, rental costs per day per square foot, disruption costs, and the expected days of loss of function for each damage state.

9.5.4.8 Capital-related Income

Capital-related income is a measure of the profitability of a commercial enterprise. Income losses occur when building damage disrupts commercial activity. Income losses are the product of floor area, income realized per square foot and the expected days of loss of function for each damage state. The U.S. Department of Commerce's Bureau of Economic Analysis reports regional estimates of capital-related income by economic sector. Capital-related income per square foot of floor space can then be derived by dividing income by the floor space occupied by a specific sector. Income will vary considerably depending on regional economic conditions. Therefore, default values need to be adjusted for local conditions. Default values were derived from information in Table 4.7 of ATC-13.

Chapter 10. Viewing and Reporting the Results

This chapter describes the results tables, maps, and reports produced by the Hurricane Model. The items discussed are accessed via the **Results** menu after running a scenario or probabilistic analysis.

10.1 Guidance for Reporting Loss Results

There is no single format that is appropriate for presentation of loss study results. The format will depend on the use of the results and the intended audience. The audience can vary from the general public to technical experts. Decision makers such as city council members and other government officials may require only summaries of losses for a region. Emergency response planners may want to see the geographical distribution of all losses and damage for several different hurricane scenarios. HAZUS provides a great deal of flexibility in presenting results. Results can be presented in a tabular or map form. The users of the results should be involved from the beginning in determining the types and formats of the results that best suit their needs.

In previous loss studies, authors of reports have had the difficult task of trying to combine the study results with the theory of how they were calculated. Consequently, reports often seemed overly technical, reducing their readability and usefulness for many audiences. HAZUS-MH users can refer to the *Technical Manual*, which describes all of the theories and equations that provide the basis of any loss estimate. Thus, reports do not need to, and probably should not include technical discussions of theory. Instead, reports should focus on describing results in non-technical language that is easily understood by the intended audience.

While no particular format for presenting results can be recommended, several general statements about reporting of results can be made. Reports should serve to clarify the meaning of the loss estimates. For example, the report should indicate whether losses are due only to building and contents damage or if they also include monetary losses resulting from loss of function. It should be clarified that losses are not calculated for individual buildings, but instead are based on the performances of entire classes of buildings. These are just a few examples of the types of clarifications that should appear in reports.

Reports should also clarify for the reader what assumptions were made in developing the scenario and inventory and in calculating losses. For example, were losses based on default inventories or were default inventories augmented? Were default analysis parameters used? If not, what values were used? What assumptions were made in selecting the scenario hurricane? Is it based on an historical event? Is it based on a expected probability of occurrence (e.g., a 100-year return period event)? What types of assumptions were made about the building stock?

A criticism of past studies is that there has been little qualitative or quantitative treatment of uncertainty. Discussions with users of previous studies have indicated that users need information about where errors in prediction are most likely to occur. While this methodology does not explicitly include a technique for carrying the uncertainty of each variable through the entire set of calculations, sensitivity analyses are useful for providing bounds on loss estimates. At a minimum, reports should make some statement about the uncertainty of the input values.

10.2 Differences Between Probabilistic and Scenario Results

There are important differences in the format of the results for a probabilistic analysis compared to a scenario analysis. Scenario results represent the expected damage and loss from a single hurricane event, while probabilistic results represent the range of probable losses estimated from a 100,000-year simulation of expected hurricane activity.

In all of the probabilistic results displays, you will see sample results for seven different return periods ranging from 10 years to 1,000 years. Regardless of the result being displayed, the return period sample events are selected based solely on the total direct economic loss for the entire study region. This approach ensures that all of the results for a given return period come from the same simulated event.[4]

For example, the 100-year shelter estimate is the shelter demand that was computed in the single hurricane event that produced a total direct loss that was exceeded by other events in 1,000 (i.e., 1/100) of the 100,000 years in the simulation. A return period of 100 years corresponds to a 1% chance per year or equaling or exceeding the computed total direct loss shown for the 100-year event.

In addition to return period loss estimates, the direct economic loss results for a probabilistic analysis also include annualized loss estimates (see Chapter 10.9). Annualized losses are simply the total losses summed over the entire simulation period divided by 100,000 years. Annualized losses are very useful for comparing loss estimates from different locations or comparing the risks posed be different hazards at a single location. Annualized losses are also very useful in evaluating the potential benefits of mitigation.[5]

The screen faces shown in the following sections are all taken from a probabilistic analysis.

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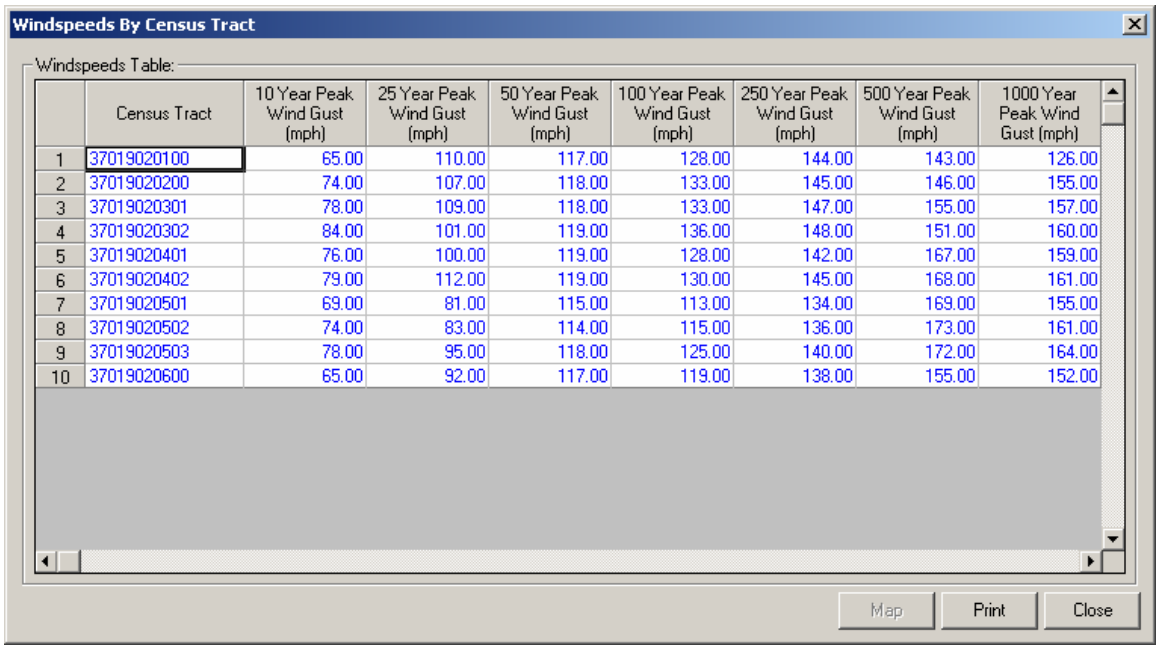
[4] When viewing return period sample event results for large study regions (e.g., entire states), it is likely that one or more counties will have little or no damage. This is to be expected since no single storm can cause damage throughout a large study region. To obtain accurate return period results for a specific county or metropolitan area, your study region must be restricted to the specific area of interest.

[5] Unlike return period loss results, annualized losses for specific counties or census tracts do not depend on the size of study region. Therefore, it is not necessary to create separate study regions for each county in a state to compute the annualized losses for each county.

10.3 Wind Speeds

The **Results | Wind Speeds** command allows you to view and map the peak wind speeds for the current hazard by census tract. The wind speeds shown are the estimated maximum 3-second gusts in open terrain at 10m above ground at the centroid of each census tract. To display the data on the study region map, select the appropriate column and click on the **Map** button.



Windspeeds By Census Tract

Windspeeds Table:

	Census Tract	10 Year Peak Wind Gust (mph)	25 Year Peak Wind Gust (mph)	50 Year Peak Wind Gust (mph)	100 Year Peak Wind Gust (mph)	250 Year Peak Wind Gust (mph)	500 Year Peak Wind Gust (mph)	1000 Year Peak Wind Gust (mph)
1	37019020100	65.00	110.00	117.00	128.00	144.00	143.00	126.00
2	37019020200	74.00	107.00	118.00	133.00	145.00	146.00	155.00
3	37019020301	78.00	109.00	118.00	133.00	147.00	155.00	157.00
4	37019020302	84.00	101.00	119.00	136.00	148.00	151.00	160.00
5	37019020401	76.00	100.00	119.00	128.00	142.00	167.00	159.00
6	37019020402	79.00	112.00	119.00	130.00	145.00	168.00	161.00
7	37019020501	69.00	81.00	115.00	113.00	134.00	169.00	155.00
8	37019020502	74.00	83.00	114.00	115.00	136.00	173.00	161.00
9	37019020503	78.00	95.00	118.00	125.00	140.00	172.00	164.00
10	37019020600	65.00	92.00	117.00	119.00	138.00	155.00	152.00

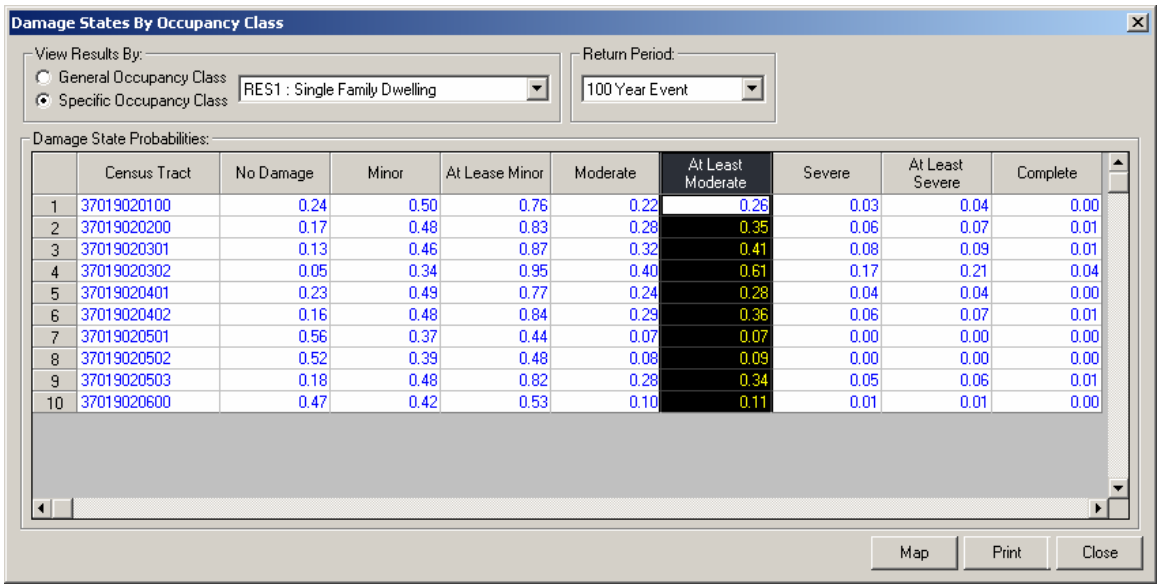
Map Print Close

Figure 10.1. Wind Speed Results.

10.4 General Building Stock

The **Results | General Building Stock** command allows you to view and map the general inventory damage results either by occupancy or building type. The values in the table represent the expected fraction of building square footage in each damage state.

For probabilistic scenarios, the drop-down box allows you to select one of seven sample return period events (e.g., 10-year return period event, 20-year return period event, etc.).



	Census Tract	No Damage	Minor	At Lease Minor	Moderate	At Least Moderate	Severe	At Least Severe	Complete
1	37019020100	0.24	0.50	0.76	0.22	0.26	0.03	0.04	0.00
2	37019020200	0.17	0.48	0.83	0.28	0.35	0.06	0.07	0.01
3	37019020301	0.13	0.46	0.87	0.32	0.41	0.08	0.09	0.01
4	37019020302	0.05	0.34	0.95	0.40	0.61	0.17	0.21	0.04
5	37019020401	0.23	0.49	0.77	0.24	0.28	0.04	0.04	0.00
6	37019020402	0.16	0.48	0.84	0.29	0.36	0.06	0.07	0.01
7	37019020501	0.56	0.37	0.44	0.07	0.07	0.00	0.00	0.00
8	37019020502	0.52	0.39	0.48	0.08	0.09	0.00	0.00	0.00
9	37019020503	0.18	0.48	0.82	0.28	0.34	0.05	0.06	0.01
10	37019020600	0.47	0.42	0.53	0.10	0.11	0.01	0.01	0.00

Figure 10.2. General Building Stock Damage Results.

10.5 Essential Facilities

The **Results | Essential Facilities** command allows you to view and map the damage and loss of use results for hospitals, police stations, fire stations, emergency operations centers, and schools.

For probabilistic scenarios, the drop-down box allows you to select one of seven sample return period events (e.g., 10-year return period event, 20-year return period event, etc.).

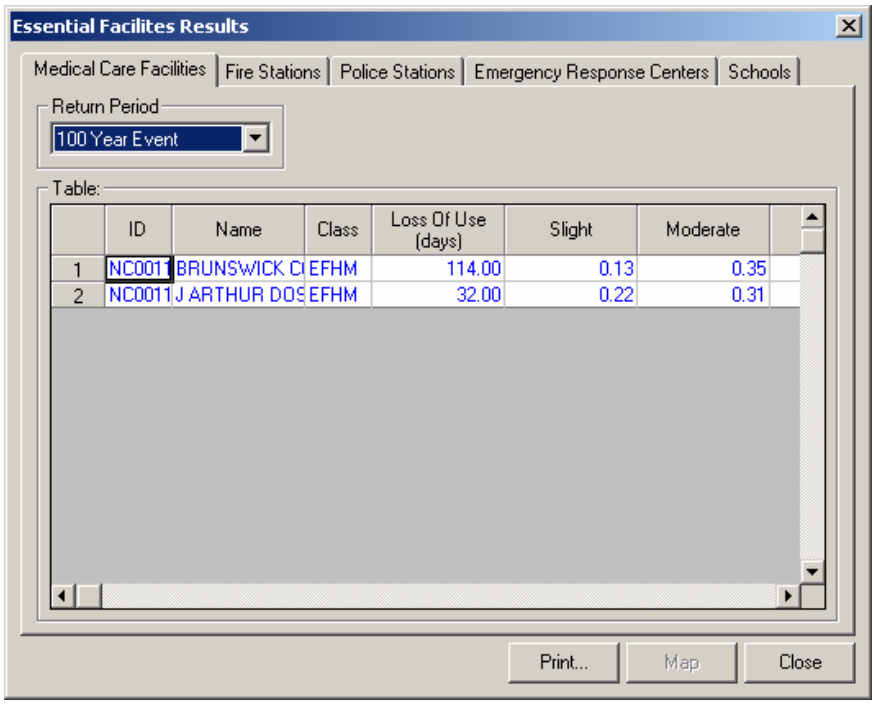


Figure 10.3. Essential Facilities Damage Results.

10.6 User-Defined Facilities

The **Results | User-Defined Facilities** command allows you to view and map the damage results for individual, user-specified facilities. Damage probabilities are provided for overall building damage.

For probabilistic scenarios, the drop-down box allows you to select one of seven sample return period events (e.g., 10-year return period event, 20-year return period event, etc.).

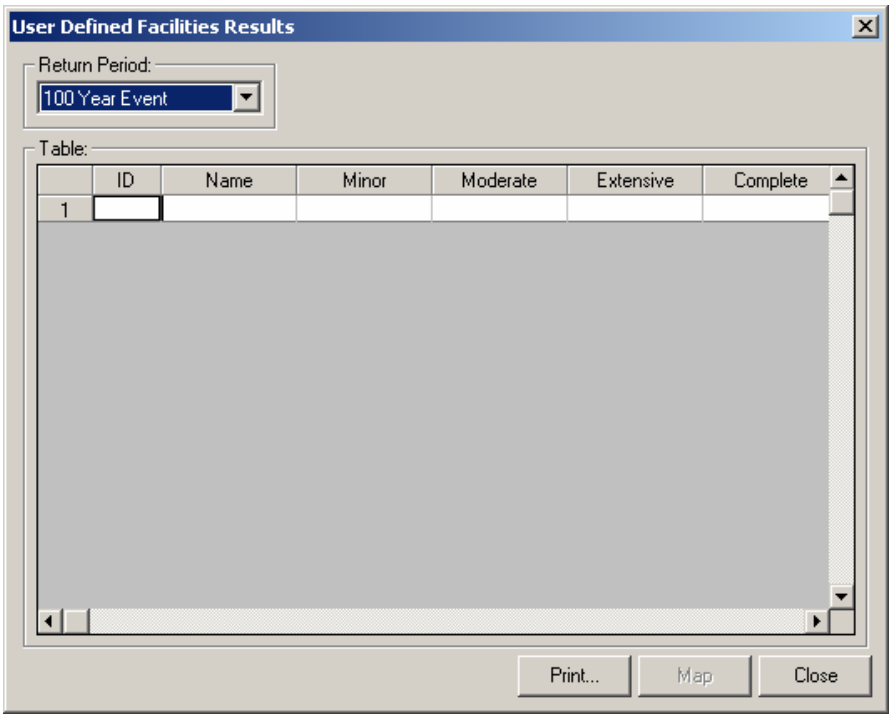


Figure 10.4. User-Defined Facilities Damage Results.

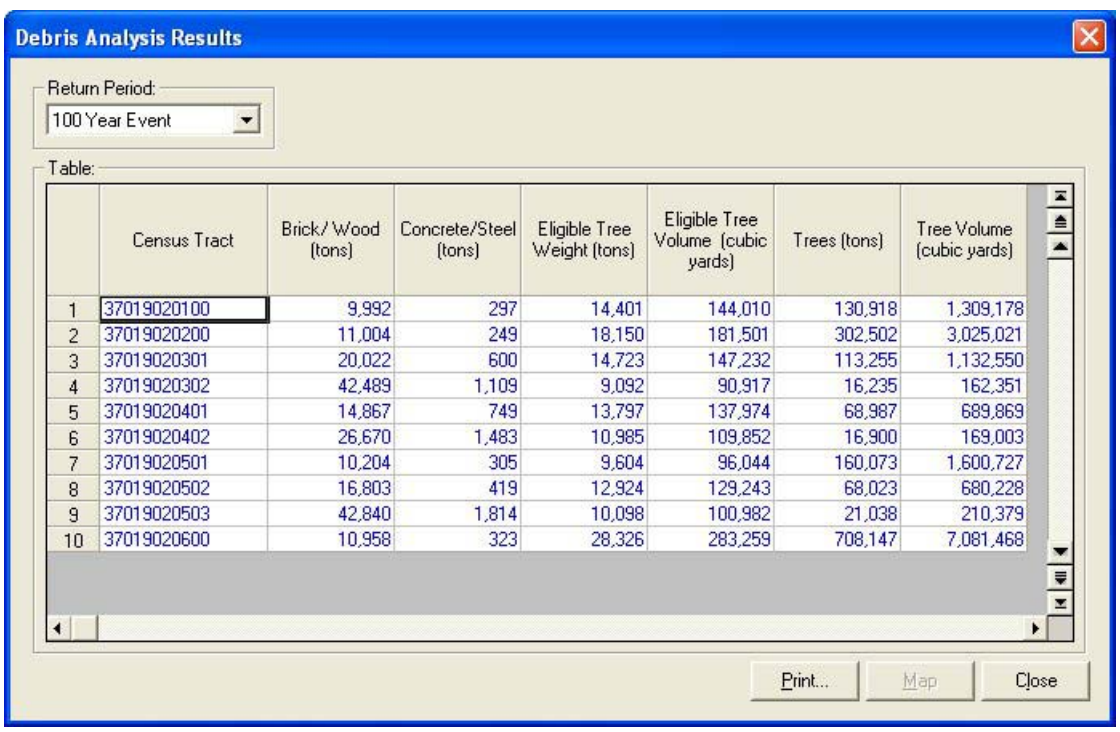
10.7 Debris

The **Results | Debris** command allows you to view and map building and tree debris results by census tract.

For probabilistic scenarios, the drop-down box allows you to select one of seven sample return period events (e.g., 10-year return period event, 20-year return period event, etc.).

The Eligible Tree Debris columns provide estimates of the weight and volume of downed trees that would likely be collected and disposed at public expense. As discussed in Chapter 12 of the *HAZUS-MH Hurricane Model Technical Manual*, the eligible tree debris estimates produced by the Hurricane Model tend to underestimate reported volumes of debris brought to landfills for a number of events that have occurred over the past several years. This indicates that that there may be other sources of vegetative and non-vegetative debris that are not currently being modeled in HAZUS.

For landfill estimation purposes, it is recommended that the HAZUS debris volume estimate be treated as an approximate lower bound. Based on actual reported debris volumes, it is recommended that the HAZUS results be multiplied by three to obtain an approximate upper bound estimate. It is also important to note that the Hurricane Model assumes a bulking factor of 10 cubic yards per ton of tree debris. If the debris is chipped prior to transport or disposal, a bulking factor of 4 is recommended. Thus, for chipped debris, the eligible tree debris volume should be multiplied by 0.4.



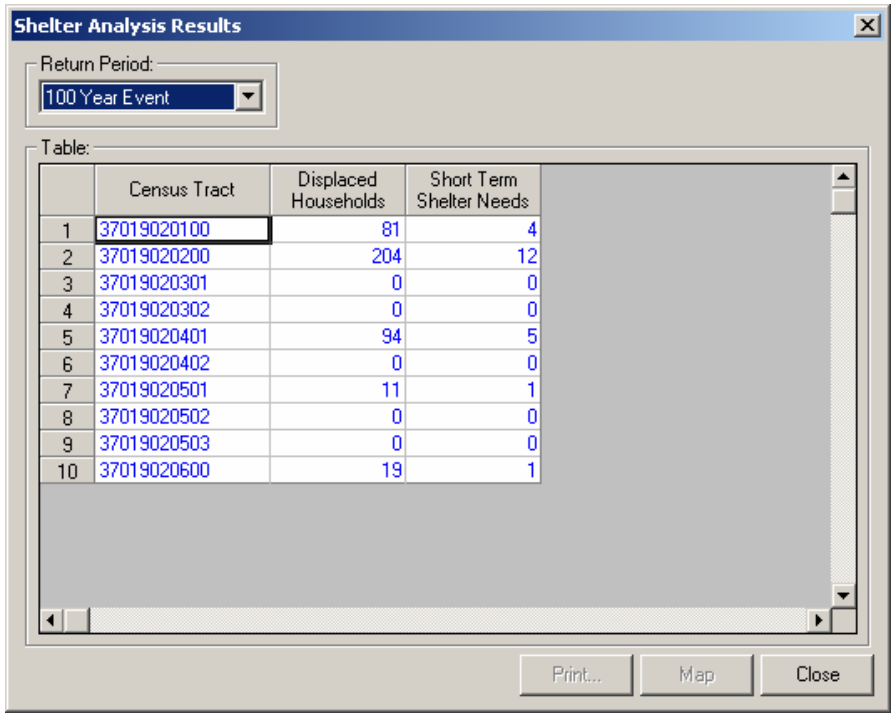
	Census Tract	Brick/ Wood (tons)	Concrete/Steel (tons)	Eligible Tree Weight (tons)	Eligible Tree Volume (cubic yards)	Trees (tons)	Tree Volume (cubic yards)
1	37019020100	9,992	297	14,401	144,010	130,918	1,309,178
2	37019020200	11,004	249	18,150	181,501	302,502	3,025,021
3	37019020301	20,022	600	14,723	147,232	113,255	1,132,550
4	37019020302	42,489	1,109	9,092	90,917	16,235	162,351
5	37019020401	14,867	749	13,797	137,974	68,987	689,869
6	37019020402	26,670	1,483	10,985	109,852	16,900	169,003
7	37019020501	10,204	305	9,604	96,044	160,073	1,600,727
8	37019020502	16,803	419	12,924	129,243	68,023	680,228
9	37019020503	42,840	1,814	10,098	100,982	21,038	210,379
10	37019020600	10,958	323	28,326	283,259	708,147	7,081,468

Figure 10.5. Debris Results.

10.8 Shelter

The **Results | Shelter** command allows you to view and map the estimated number of displaced households and the estimated short-term shelter needs by census tract.

For probabilistic scenarios, the drop-down box allows you to select one of seven sample return period events (e.g., 10-year return period event, 20-year return period event, etc.).



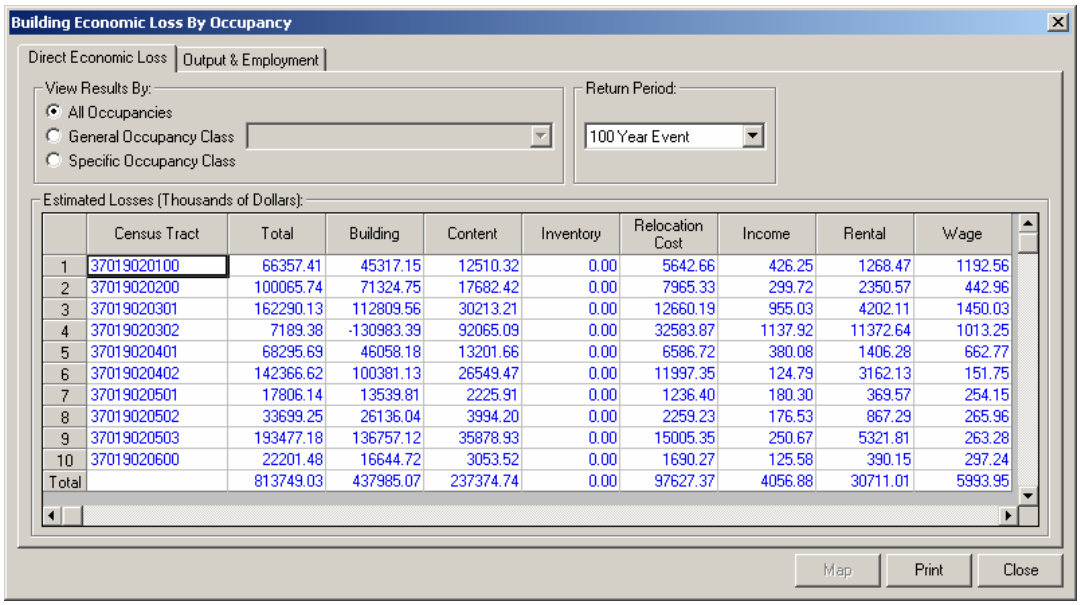
	Census Tract	Displaced Households	Short Term Shelter Needs
1	37019020100	81	4
2	37019020200	204	12
3	37019020301	0	0
4	37019020302	0	0
5	37019020401	94	5
6	37019020402	0	0
7	37019020501	11	1
8	37019020502	0	0
9	37019020503	0	0
10	37019020600	19	1

Figure 10.6. Shelter Results.

10.9 Buildings Economic Loss

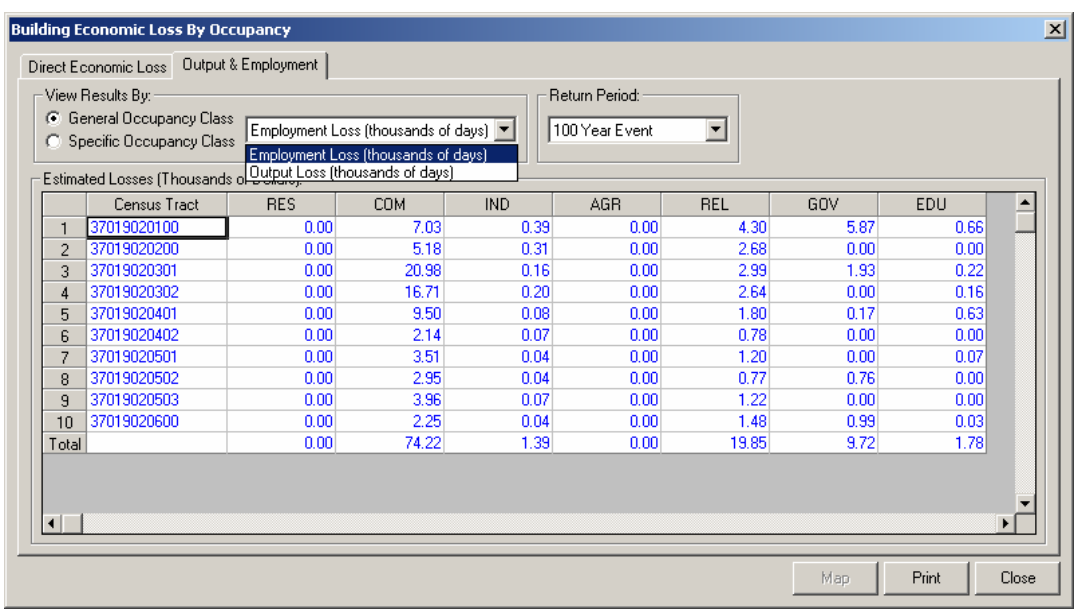
The **Results | Buildings Economic Loss** command allows you to view and map economic losses for the general building stock by census tract.

For probabilistic scenarios, the drop-down box allows you to select either annualized losses or one of seven sample return period events (e.g., 10-year return period event, 20-year return period event, etc.).



	Census Tract	Total	Building	Content	Inventory	Relocation Cost	Income	Rental	Wage
1	37019020100	66357.41	45317.15	12510.32	0.00	5642.66	426.25	1268.47	1192.56
2	37019020200	100065.74	71324.75	17682.42	0.00	7965.33	299.72	2350.57	442.96
3	37019020301	162290.13	112809.56	30213.21	0.00	12660.19	955.03	4202.11	1450.03
4	37019020302	7189.38	-130983.39	92065.09	0.00	32583.87	1137.92	11372.64	1013.25
5	37019020401	68295.69	46058.18	13201.66	0.00	6586.72	380.08	1406.28	662.77
6	37019020402	142366.62	100381.13	26549.47	0.00	11997.35	124.79	3162.13	151.75
7	37019020501	17806.14	13539.81	2225.91	0.00	1236.40	180.30	369.57	254.15
8	37019020502	33699.25	26136.04	3994.20	0.00	2259.23	176.53	867.29	265.96
9	37019020503	193477.18	136757.12	35878.93	0.00	15005.35	250.67	5321.81	263.28
10	37019020600	22201.48	16644.72	3053.52	0.00	1690.27	125.58	390.15	297.24
Total		813749.03	437985.07	237374.74	0.00	97627.37	4056.88	30711.01	5993.95

Figure 10.7. Buildings Economic Loss Results – Direct Economic Losses.



	Census Tract	RES	COM	IND	AGR	REL	GOV	EDU
1	37019020100	0.00	7.03	0.39	0.00	4.30	5.87	0.66
2	37019020200	0.00	5.18	0.31	0.00	2.68	0.00	0.00
3	37019020301	0.00	20.98	0.16	0.00	2.99	1.93	0.22
4	37019020302	0.00	16.71	0.20	0.00	2.64	0.00	0.16
5	37019020401	0.00	9.50	0.08	0.00	1.80	0.17	0.63
6	37019020402	0.00	2.14	0.07	0.00	0.78	0.00	0.00
7	37019020501	0.00	3.51	0.04	0.00	1.20	0.00	0.07
8	37019020502	0.00	2.95	0.04	0.00	0.77	0.76	0.00
9	37019020503	0.00	3.96	0.07	0.00	1.22	0.00	0.00
10	37019020600	0.00	2.25	0.04	0.00	1.48	0.99	0.03
Total		0.00	74.22	1.39	0.00	19.85	9.72	1.78

Figure 10.8. Buildings Economic Loss Results – Output and Employment Losses.

10.10 Summary Reports

The **Results | Summary Reports** command allows you to select one of several summary reports for viewing and printing. The reports will be generated using the Crystal Reports report engine.

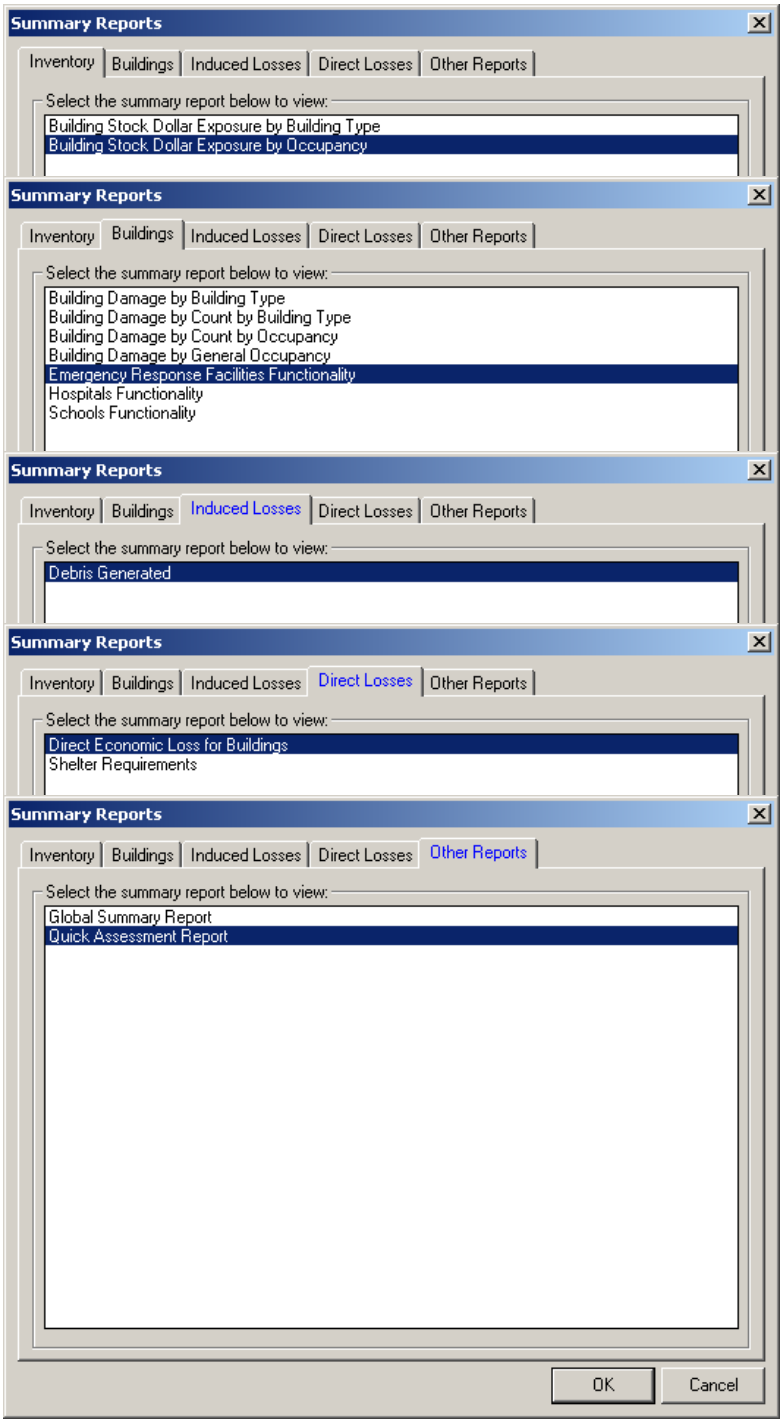
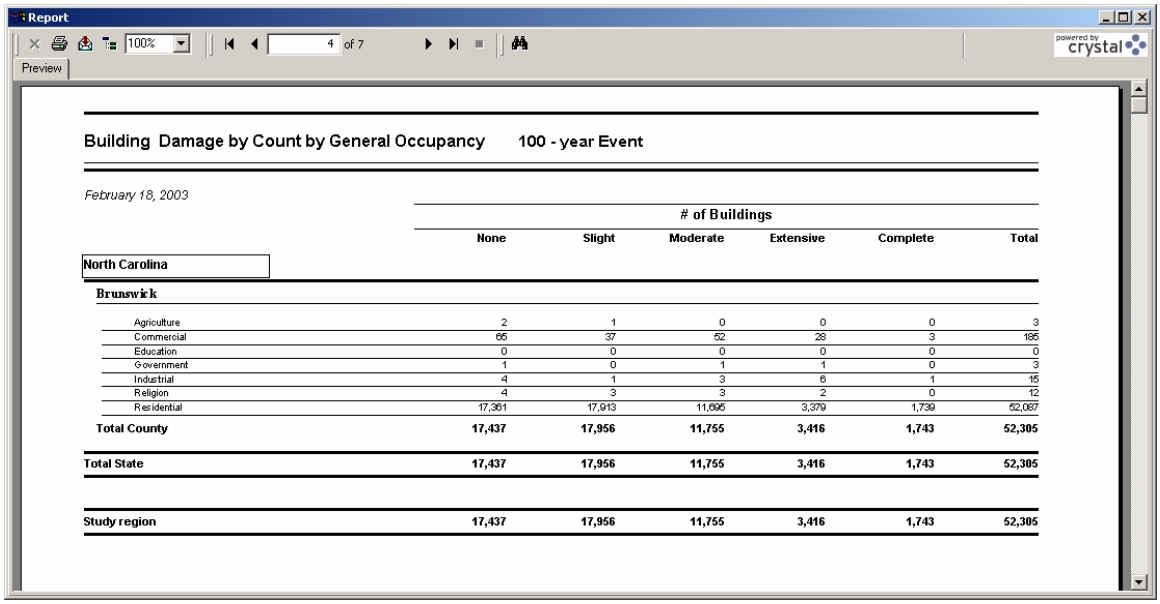


Figure 10.9. Summary Reports Dialog.



Report

Preview

Building Damage by Count by General Occupancy 100 - year Event

February 18, 2003

	# of Buildings					
	None	Slight	Moderate	Extensive	Complete	Total
North Carolina						
Brunswick						
Agriculture	2	1	0	0	0	3
Commercial	65	37	52	28	3	185
Education	0	0	0	0	0	0
Government	1	0	1	1	0	3
Industrial	4	1	3	6	1	15
Religion	4	3	3	2	0	12
Residential	17,361	17,913	11,695	3,379	1,739	52,087
Total County	**17,437**	**17,956**	**11,755**	**3,416**	**1,743**	**52,305**
Total State	**17,437**	**17,956**	**11,755**	**3,416**	**1,743**	**52,305**
Study region	**17,437**	**17,956**	**11,755**	**3,416**	**1,743**	**52,305**

Figure 10.10. Sample Summary Report: Building Damage by General Occupancy.

10.11 Automatic Outputs

If you have selected Automatic Outputs Options in the Analysis Options dialog, as shown in Figure 10.11, the Hurricane Model will automatically create and export your preferred summary reports and automatically add your preferred map layers to the table of contents. To review or modify your preferred summary reports and map layers, click on the **Output Options** button on the lower right side of the Analysis Options dialog. This will open the Automated Output Options dialog.

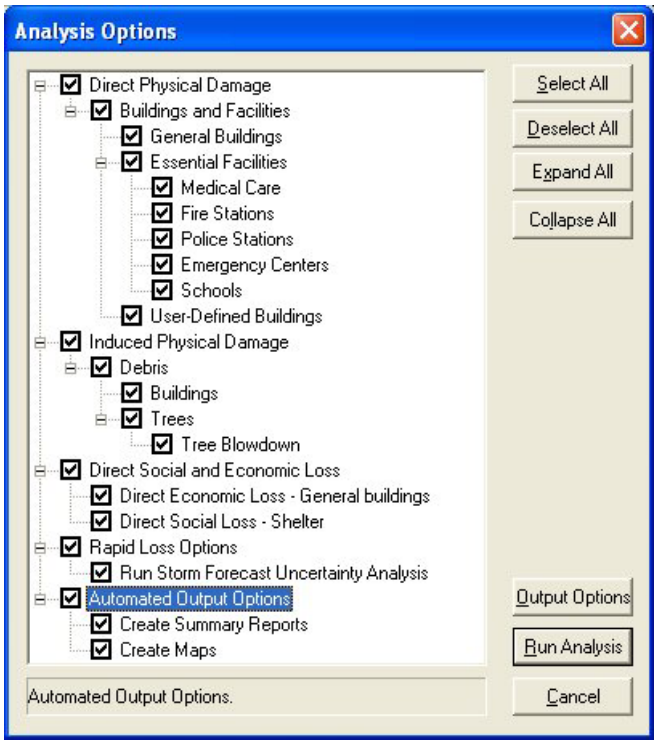


Figure 10.11. Analysis Options Dialog with Automated Output Options Selected.

On the first page of the Automated Output Options dialog (Figure 10.12), you can select your preferred summary reports. When the Automatic Outputs Option is selected the select summary reports will be created and saved in PDF format in your study region folder under a subfolder with the same name as the current scenario. Since you can run more than one analysis with the same scenario, each set of automatically generated reports is prepended with a three digit identifier. For each successive run the identifier is automatically incremented by one.

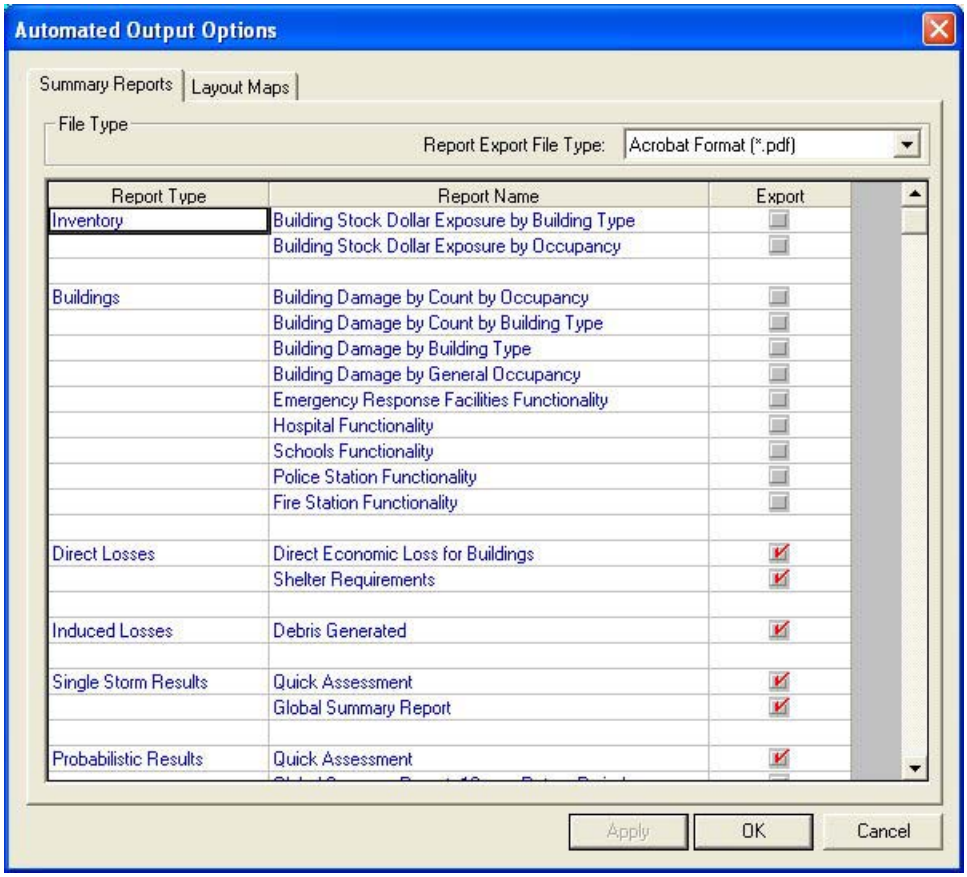


Figure 10.12. Automated Outputs – Selection of Preferred Summary Reports.

On the second page of the Automated Output Options dialog (Figure 10.13), you can select your preferred map layers. Select the Results Type and Results Filter to view a List of Columns that can be mapped, and then check your preferred the data columns. Click on the right hand side of the Results Filter to change the filter setting. The summary at the bottom of the screen lists all of the currently selected map layers. When the Automatic Outputs Option is selected the select map layers will be automatically created and added to the map table of contents.

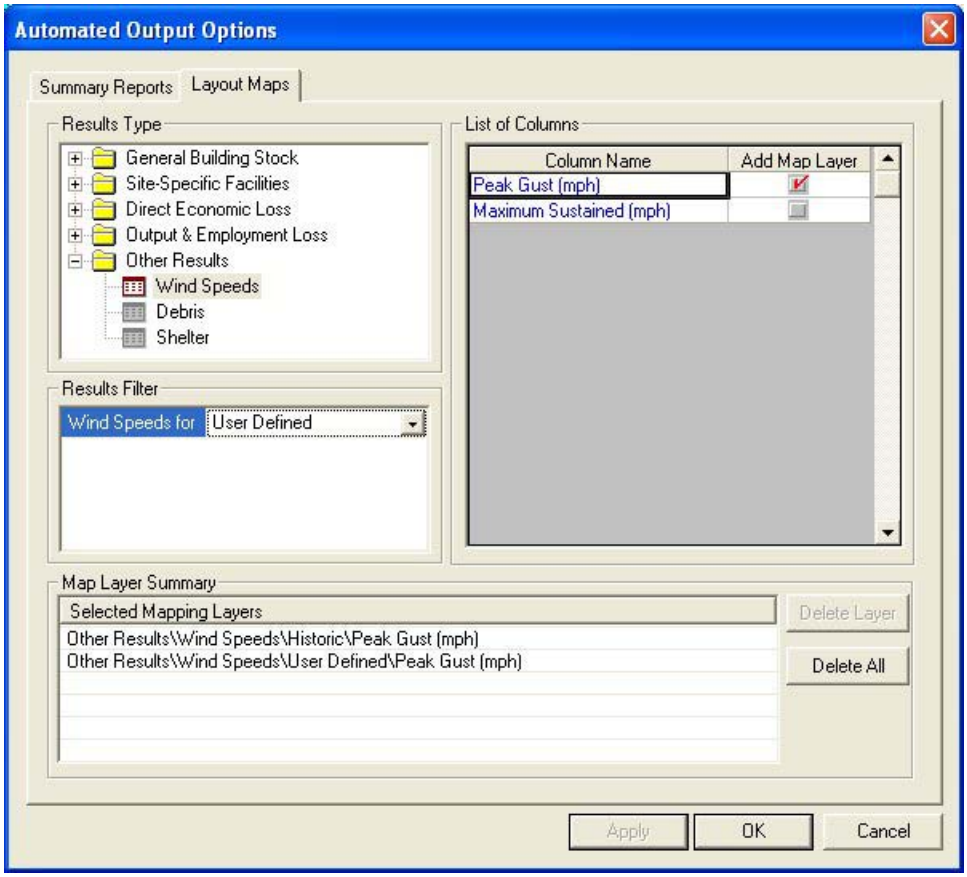


Figure 10.13. Automated Outputs – Selection of Preferred Map Layers.

10.12 Rapid Loss Assessment with Forecast Uncertainties

If you have run a scenario analysis of expected losses using the Rapid Loss Option in the Analysis Options dialog as shown in Figure 10.14, the HAZUS Hurricane Model will estimate a range of potential losses taking into account forecast uncertainties in the hurricane track and hurricane intensity. To execute this analysis you must specify which points on the user-defined hurricane scenario are known points and which points are forecast points, as discussed in Section 9.3.2.1.

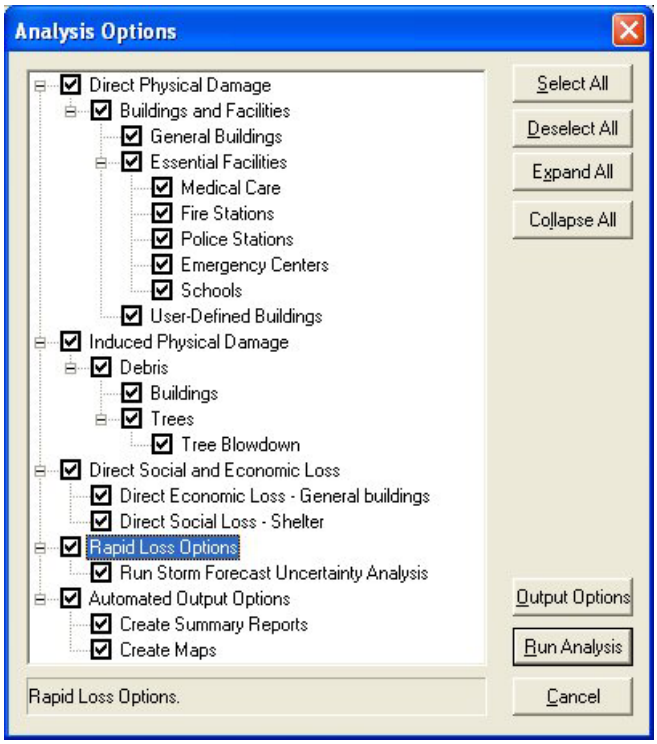


Figure 10.14. Analysis Options Dialog with Rapid Loss Options Selected.

An example of a Rapid Loss Report is shown in Figure 10.15. In this hypothetical scenario, the storm is currently about one day from landfall and there is some possibility that the storm could miss the study region almost entirely, but there is also some possibility that the storm could change direction (and intensify) and cause severe damage to the study region. The forecast uncertainties model uses statistics of forecast errors compiled from the period 1993 to 2004 to simulate a range of possible outcomes and reports the 5th and 95th percentiles of the simulated outcomes. The former case represents an outcome approaching a best case scenario, producing a maximum peak gust of just 57 mph in the study region and essentially no damage. The latter case represents an outcome approaching a worst scenario, producing a peak gust wind speed of 145 mph in the study region and severe damage.

Rapid Loss Assessment Report

April 20, 2006

Study Region : Brunswick_hu
Scenario : Test2
Scenario Description : User Defined
Peak Gust Wind Speed (mph) : 57-145

Regional Statistics

Area (Square Miles)	862
Number of Census Tracts	10
Number of People in the Region	73,143

General Building Stock

Occupancy	*Building Count*	*Dollar Exposure ($ M)*
Residential	49,137	4,281
Commercial	185	342
Other	33	116
Total	49,355	4,741

Scenario Results

Number of Buildings Damaged

Damage State	*Residential*	*Commercial*	*Other*	*Total*
Minor	<10-42,000	0-200	0-30	<10-42,000
Moderate	0-30,000	0-100	0-20	0-30,000
Severe	0-15,000	0-60	0-10	0-15,000
Destruction	0-7,100	<10	0	0-7,100

Shelter Requirements

Displaced Households (# Households)	0-8,800
Short Term Shelter (# People)	0-2,200

Economic Loss ($ Millions)

Capital Stock		0-2,167
Residential Property	0-2,027	
Commercial Property	0-108	
Other Property	0-32	
Business Interruption (Income)		0-436
Total Direct Economic Loss		0-2,603

Figure 10.15. Rapid Loss Report Given Forecast Uncertainties.

10.13 HAZUS Map Layout

If you wish to use the default HAZUS Hurricane Model map layout, select the **Apply HAZUS Layout** option under the **View** menu. This action will apply the default HAZUS layout to the layout view. The items added to the layout are a legend, a title box, a scale, a North arrow, and the HAZUS-MH logo.

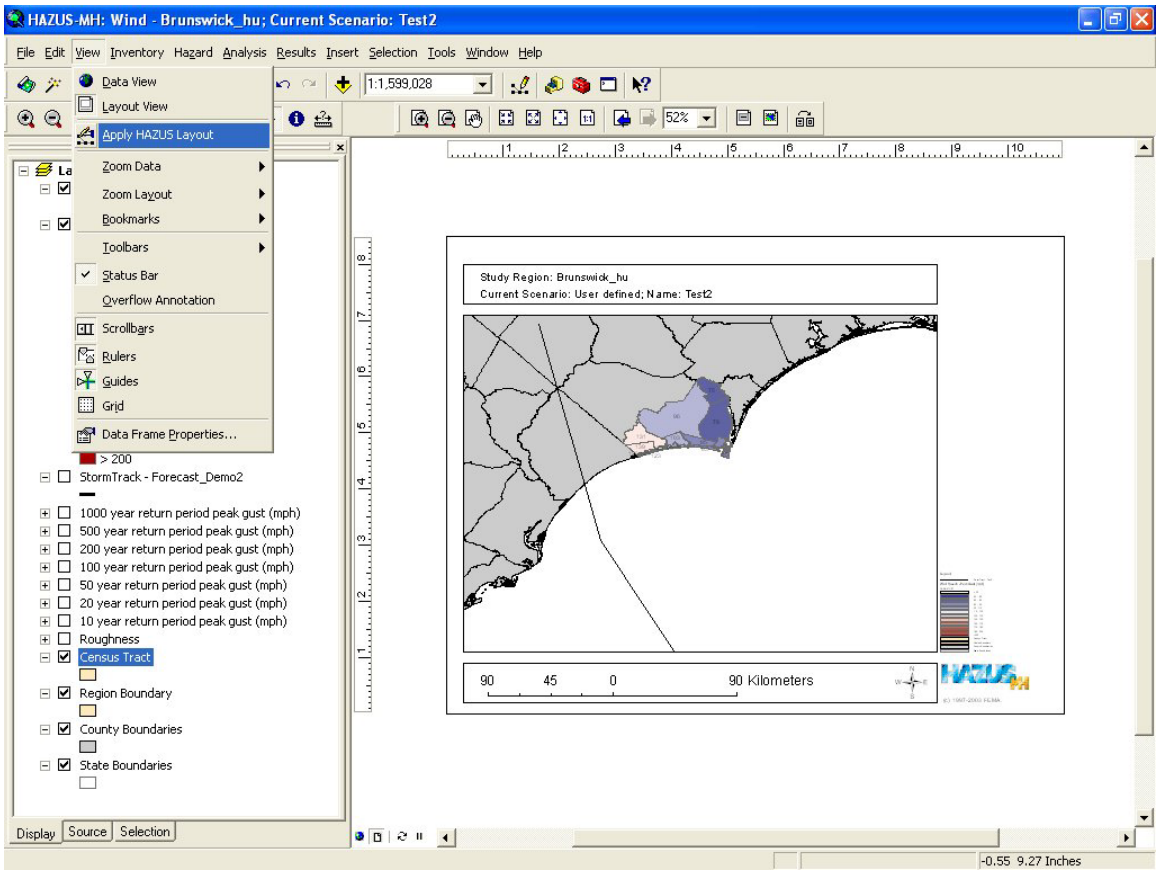


Figure 10.16. Apply HAZUS Layout Menu Option.

Chapter 11. References

Applied Technology Council. 1985. *Earthquake Damage Evaluation Data for California*, ATC - 13, Redwood City, CA.

Applied Technology Council. 1991. *General Acute Care Hospital Earthquake Survivability Inventory for California: Survey Description, Summary of Results, Data Analysis and Interpretation*, ATC - 23A, Redwood City, CA.

Applied Technology Council. 1992. *Evaluation of United States Postal Service Facilities*, ATC - 26, Redwood City, CA.

Bolton, P. A., ed.(1993). *The Loma Prieta, California, Earthquake of October 17, 1989 - Public Response*. US Geological Survey; Professional Paper 1553-B.

Means, 2005. *Means Square Foot Costs,* R. S. Means Company, Inc., Kingston, MA.

Vasudevan, R., A. S. Kiremidjian, and H. C. Howard (1992). *An Integrated Inventory Methodology for Seismic Damage Assessment* - Report #102. John A. Blume Earthquake Engineering Center, Department of Civil Engineering, Stanford University, Stanford, California.

Appendix A. Hurricane Model Installation Verification Instructions

A.1 Introduction

A.1.1 Purpose

The goal of the document is to show that the HAZUS-MH product can successfully generate results immediately following product installation.

This document provides a step-by-step procedure that should enable a user to start with a successfully installed HAZUS-MH product and end up with a summary report.

A.1.2 Scope

This document discusses only the Hurricane model steps required to generate an initial set of results. It does not address installation or any of the other hazards. The test case is fixed: Brunswick County, North Carolina.

A.1.3 Timing

For reference, in some steps it will say that the step should take, for example, 3-5 minutes. This is to give you an idea of what to expect. The timing is based on a 1.0 GHz PC with 512MB of RAM. Faster or slower computers will vary accordingly.

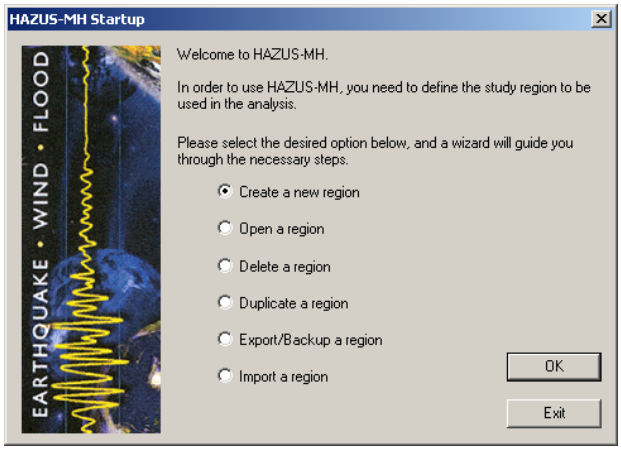
A.2 Study Region Creation Verification Procedure

This section assumes that HAZUS-MH has been successfully installed. The data path pointers must point to where the CD data was copied to the hard drive. The region path needs to point to a folder where regions should be created.

The following steps will demonstrate that a hurricane study region can be created.

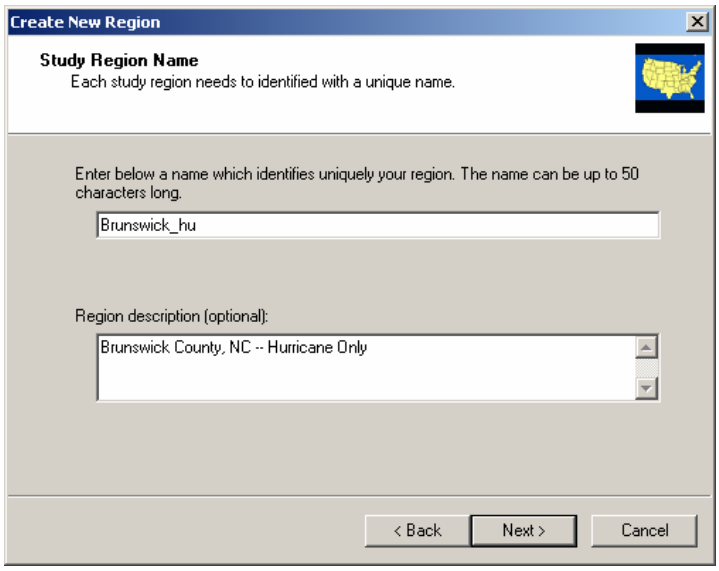
A.2.1 Select "Create a new region"

Start HAZUS-MH. Use the region wizard to create a study region.

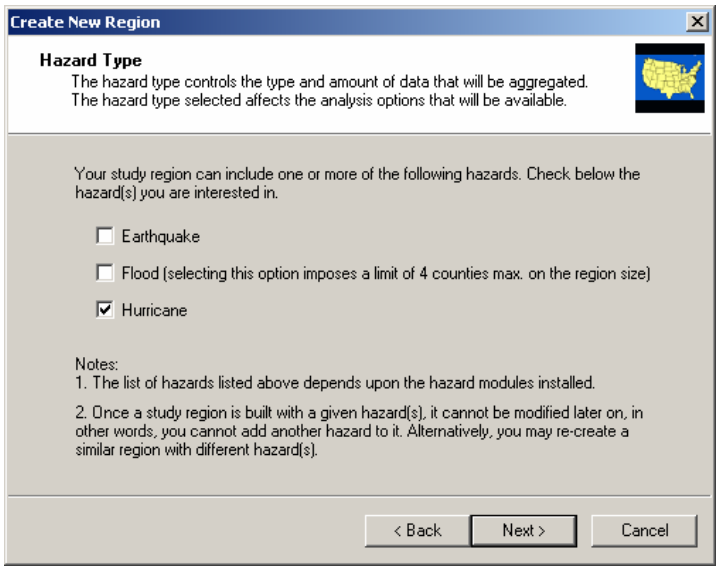


A.2.2 Enter a Name

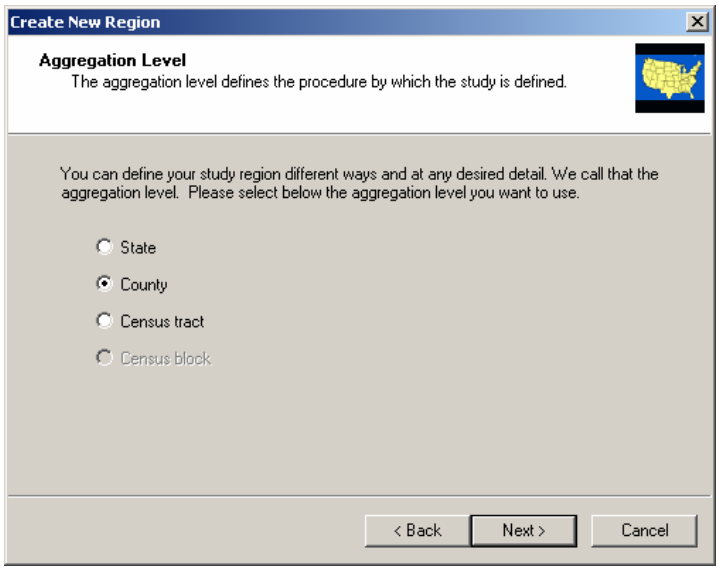
Enter a unique name for the study region, as shown below.



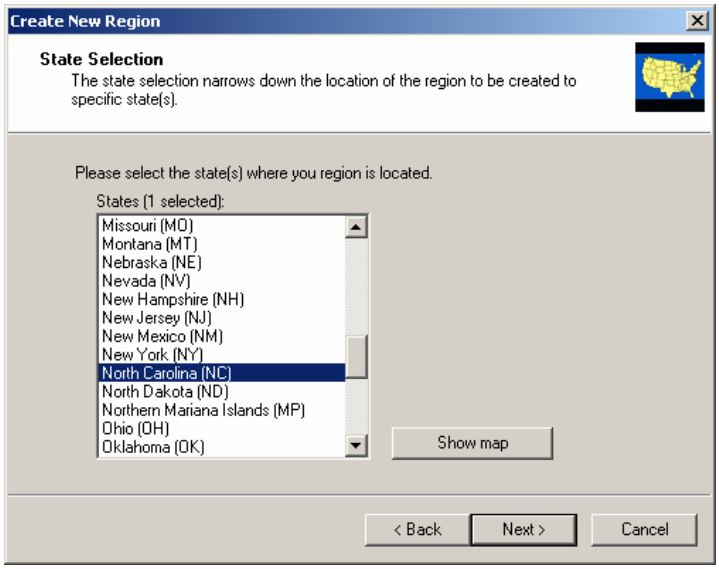
A.2.3 Select Hurricane Hazard



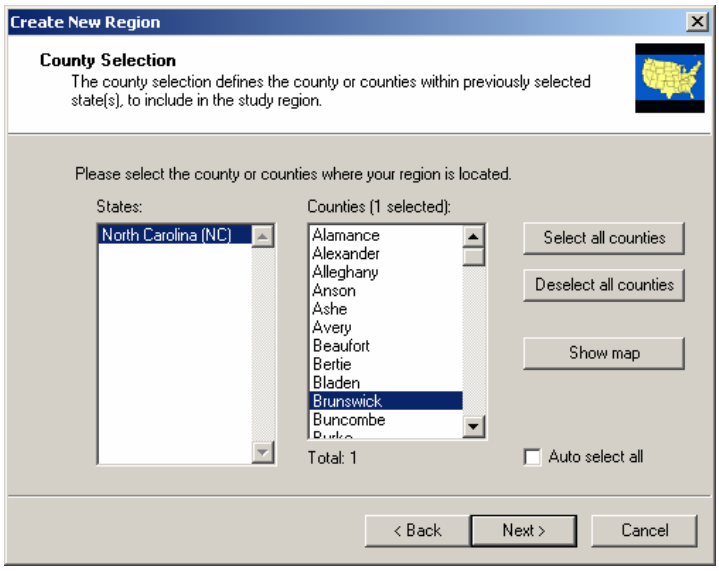
A.2.4 Select Aggregation at County Level



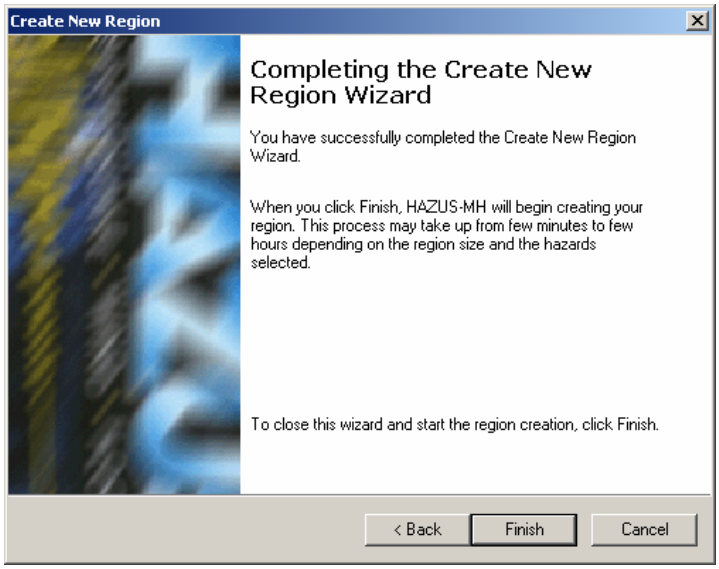
A.2.5 Select North Carolina



A.2.6 Select Brunswick County

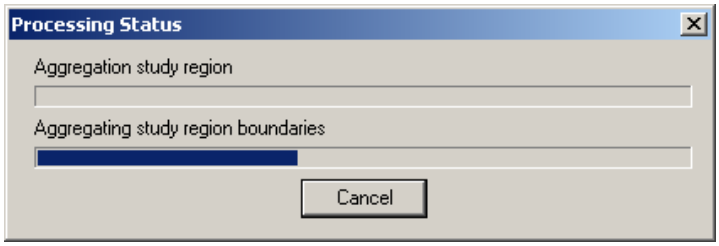


A.2.7 Finish the Wizard

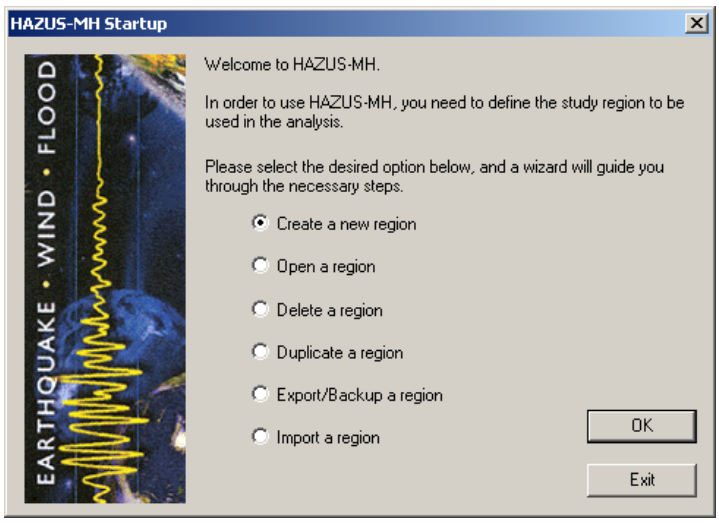


A.2.8 Wait for Region to be Created

A progress bar will display and the HAZUS-MH "shell" will create the study region. It will take 2-3 minutes to create the study region.

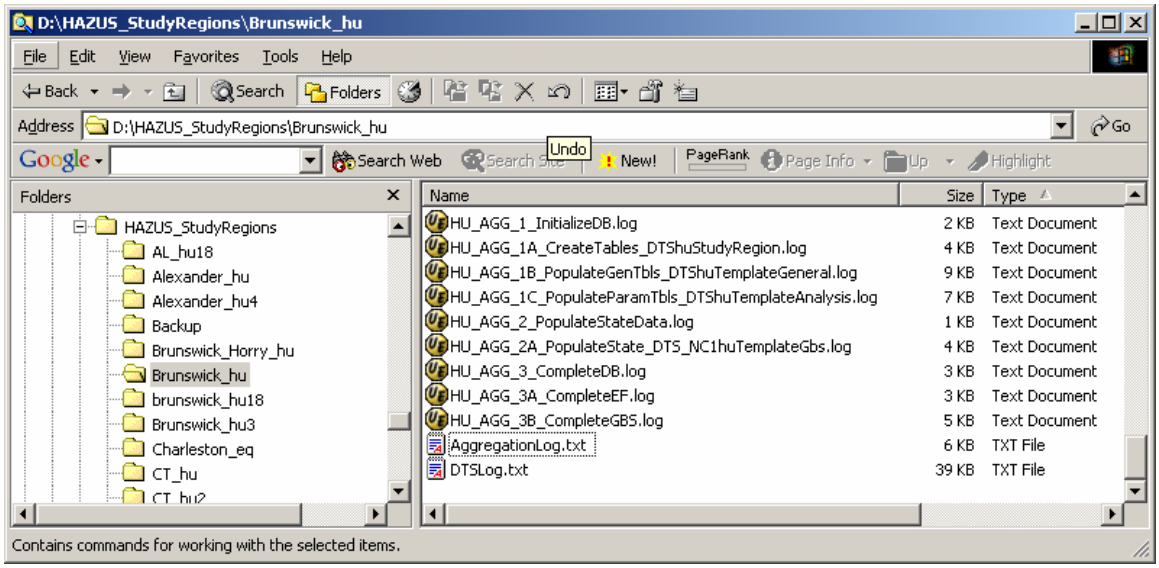


When the study region creation process is complete, you should see the following screen:



A folder with the study region name should be created underneath the folder where regions are kept (the default location is C:\Program Files\HAZUS-MH\ but in the default example shown below the study regions are stored in D:\HAZUS_StudyRegions). There should be many files in that folder, but the following files are of particular interest:

- Hazushu.mxd: This file should have a size of approximately 220 KB.
- DTSLog.txt and AggregationLog.txt: These files contain the shell's log of the creation process. Should anything not work properly, these will be key files to examine.
- Several additional text files contain logs of the hurricane portion of the study region process. Should the software indicate a failure in the hurricane aggregation process, these will be key files to examine.

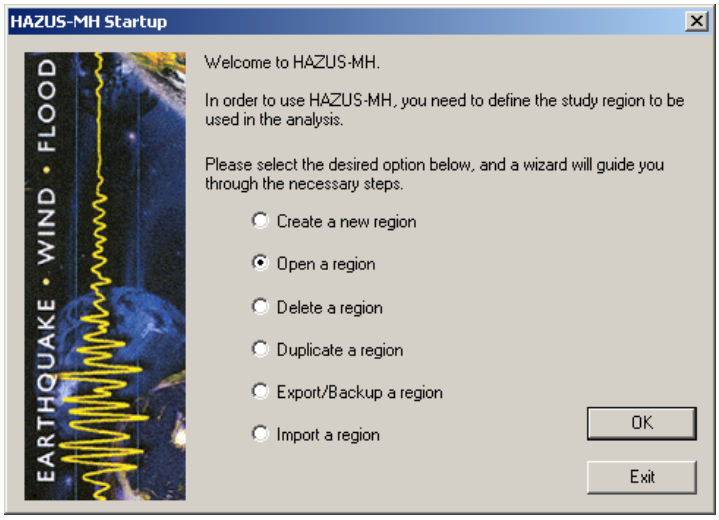


A.3 Study Region Open Verification Procedure

These steps will demonstrate that a hurricane study region can be opened.

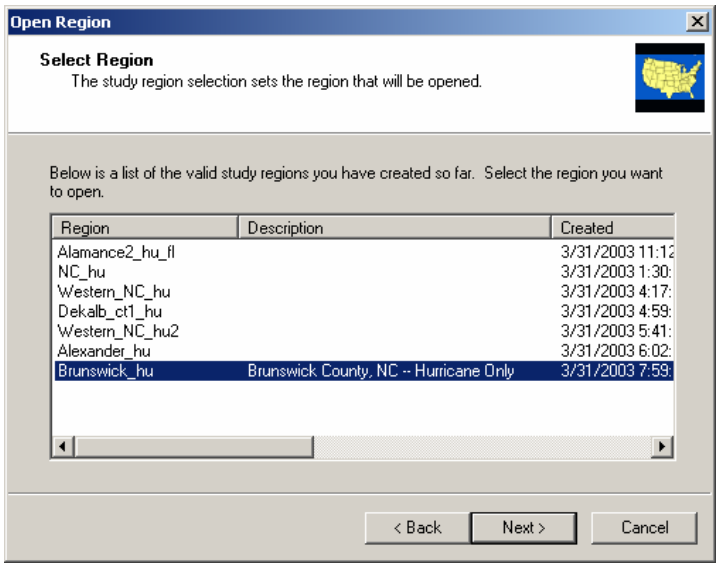
A.3.1 Open the New Region

When the creation process ended, the progress and creation dialogs should have gone away leaving the region wizard dialog on screen. Select “Open a region”.



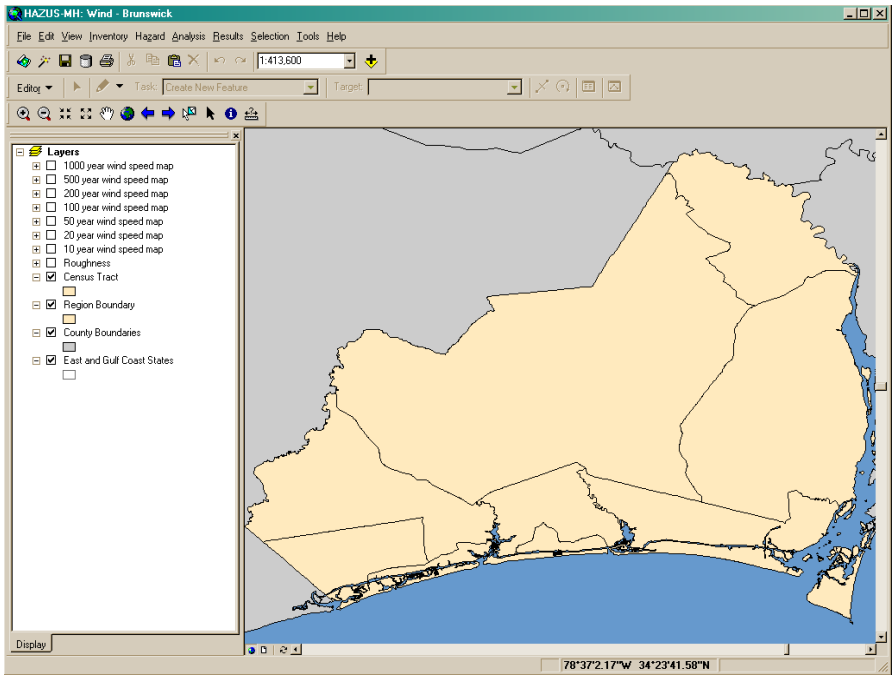
A.3.2 Select the New Region

The region you created will be the only one listed if this is truly the first region created. In the snapshot below, it was not the first. But pick the one you created and step through the rest of the wizard.



A.3.3 Initial Display

Once the region opens it should look like this. The key elements to ensure are that the study region name is in the title bar, the Inventory, Hazard, Analysis, and Results menu items exist, and the ten default layers are in the table of contents.

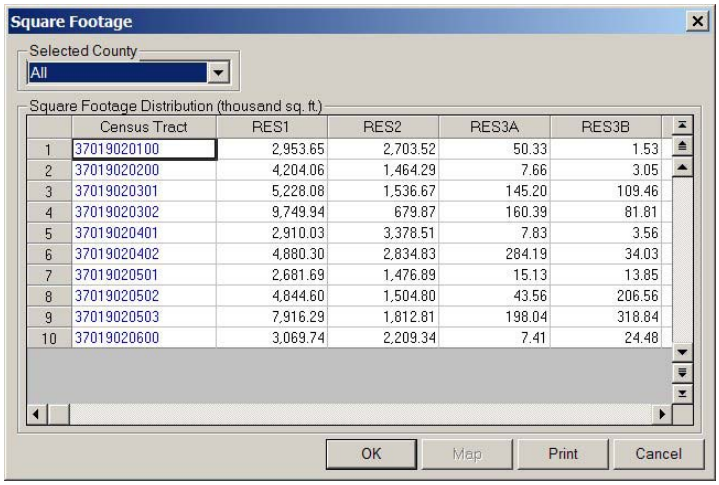


A.4 Inventory Verification

These steps will demonstrate that the Inventory menu items are functional and that inventory and certain occupancy mapping data were created.

A.4.1 General Build Stock Check

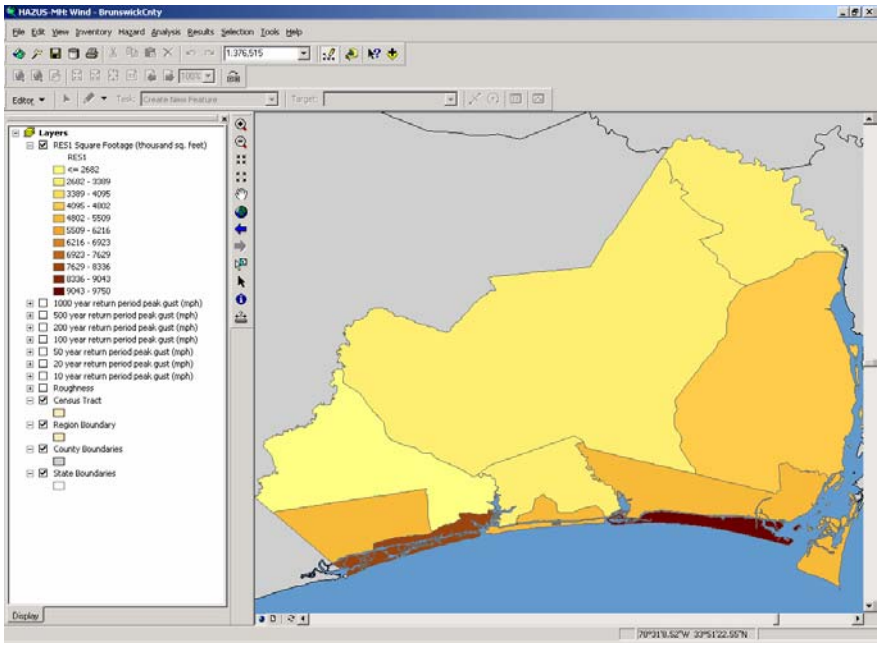
Use menu item Inventory | General Building Stock | Square Footage and ensure this displays. Close the dialog when finished.



	Census Tract	RES1	RES2	RES3A	RES3B
1	37019020100	2,953.65	2,703.52	50.33	1.53
2	37019020200	4,204.06	1,464.29	7.66	3.05
3	37019020301	5,228.08	1,536.67	145.20	109.46
4	37019020302	9,749.94	679.87	160.39	81.81
5	37019020401	2,910.03	3,378.51	7.83	3.56
6	37019020402	4,880.30	2,834.83	284.19	34.03
7	37019020501	2,681.69	1,476.89	15.13	13.85
8	37019020502	4,844.60	1,504.80	43.56	206.56
9	37019020503	7,916.29	1,812.81	198.04	318.84
10	37019020600	3,069.74	2,209.34	7.41	24.48

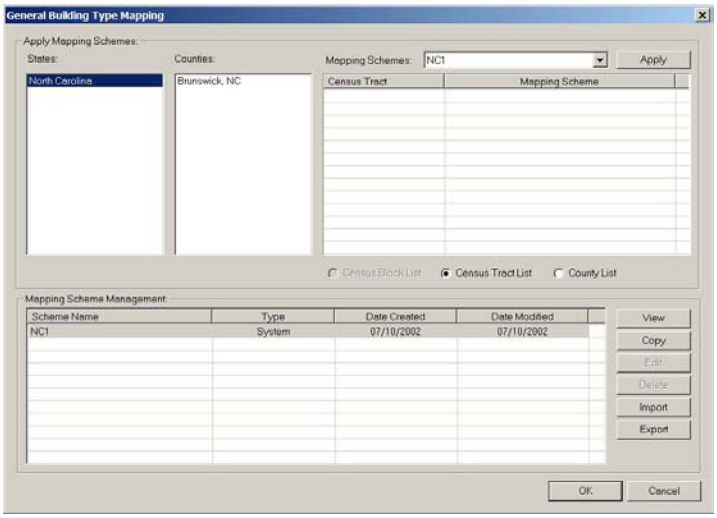
A.4.2 Shade by Res1

Click on the RES1 column header to select column RES1. The Map button should become enabled. Press Map. A new shaded layer should add to the map and show the distribution of RES1 occupancies. Click OK to close the dialog when finished.



A.4.3 General Building Type Mapping Check

Use menu item Inventory | General Building Stock | General Building Type Mapping and ensure this displays.

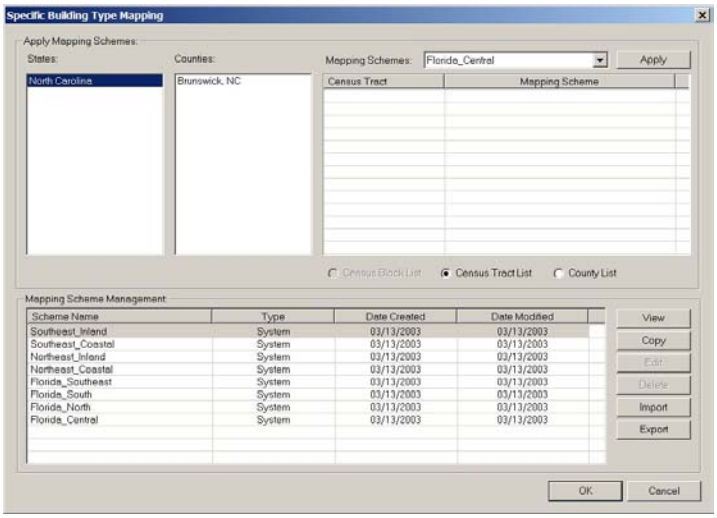


If you select “Brunswick, NC” in the Counties list box, a list of the census tracts will appear in the top right list box along with the name of the mapping schemes assigned to each tract. You can change the assignments by selecting one or more tracts and then picking a different mapping scheme name from the drop-down list box in the top right corner of the dialog. When there is only one scheme name shown in the list in the bottom half of the screen (as in the example shown above), there will only be one choice in the drop-down list box in the top right corner.

Close the dialog.

A.4.4 Specific Building Type Mapping Check

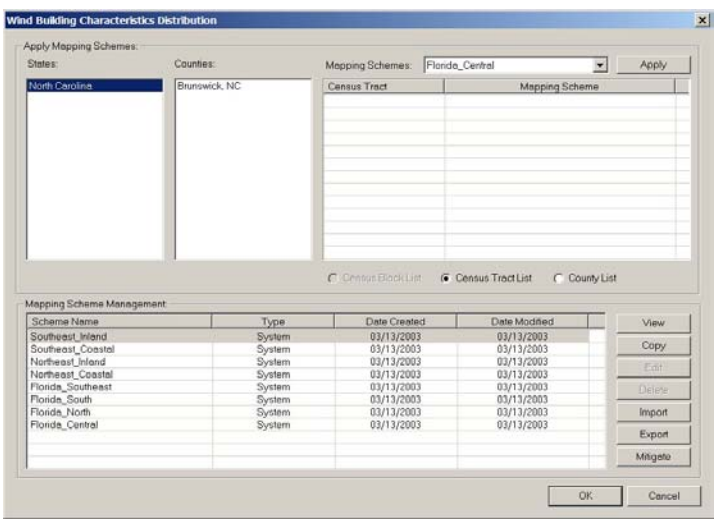
Use menu item Inventory | General Building Stock | Specific Building Type Mapping and ensure this displays.



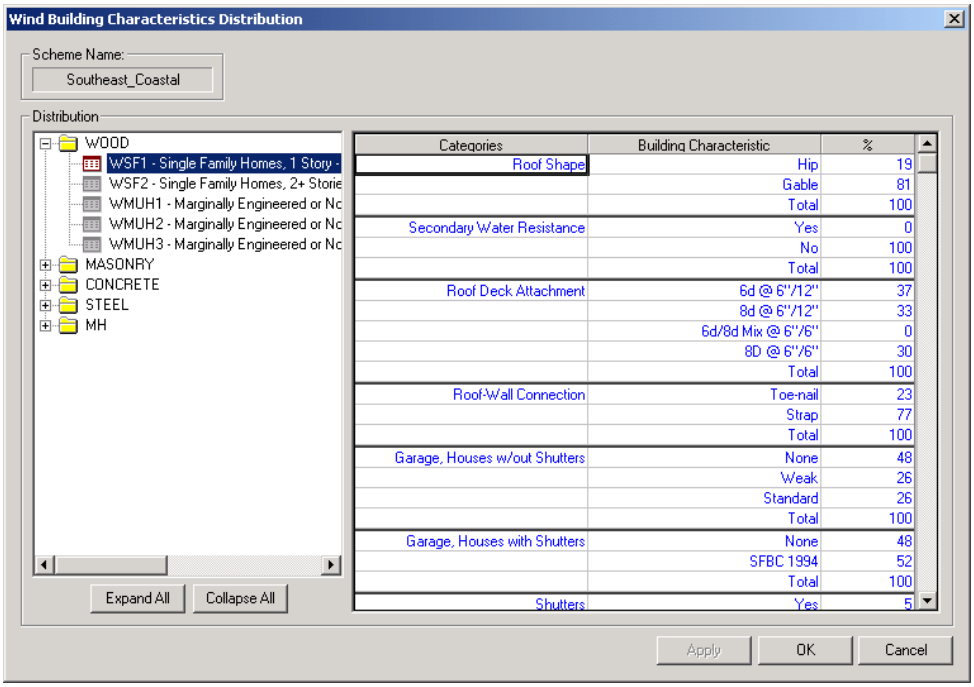
Close the dialog.

A.4.5 Wind Building Characteristics Distribution Check

Use menu item Inventory | General Building Stock | Wind Building Characteristics Distribution and ensure this displays.



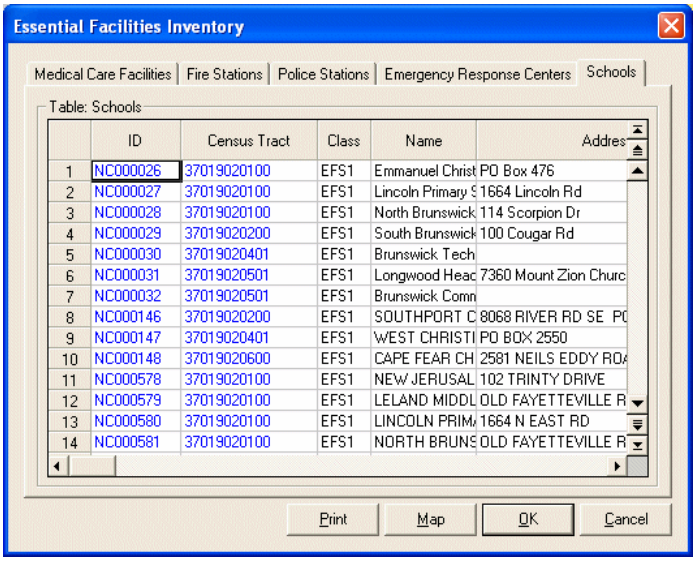
Select the second row in the lower grid. Press the View button, expand the tree on the left, select Wood | WSF1, and ensure this displays. Close the dialog when you are finished.



Also close the Wind Building Mapping dialog.

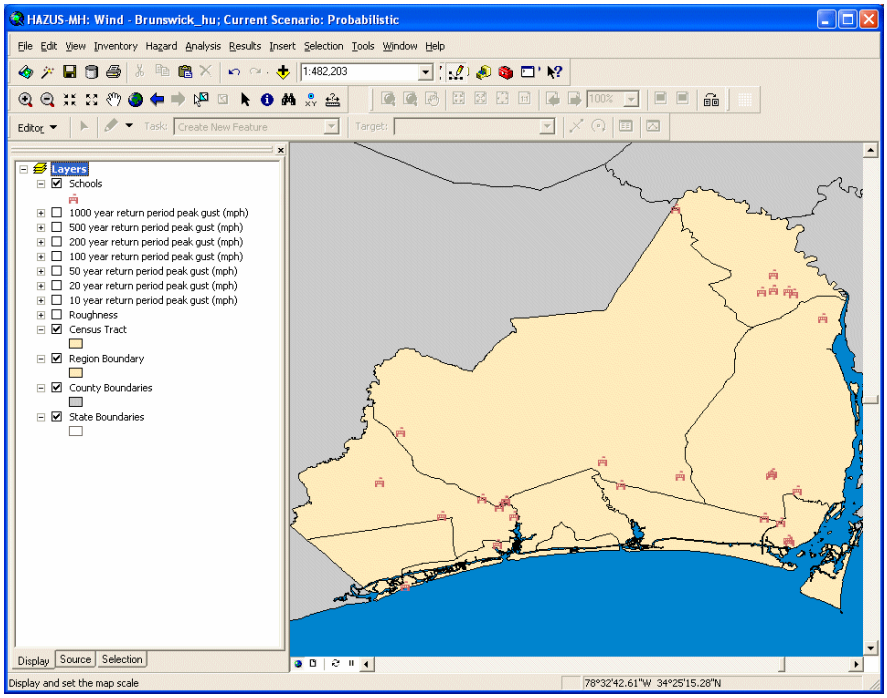
A.4.6 Essential Facilities Check

For the next step it will be useful to de-select the RES1 map layer. Next, select the menu item Inventory | Essential Facilities, then click on the Schools tab, and ensure this displays.



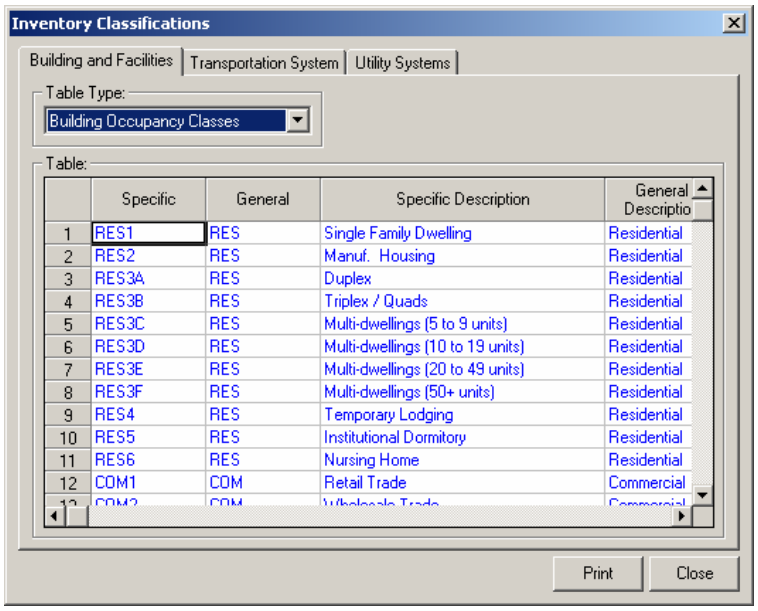
A.4.7 Plot the Schools

The Map button should be enabled. Press Map. A new point layer should add to the map and show the placement of schools. Close the dialog when finished.



A.4.8 Classification Check

Use menu item Inventory | View Classifications to ensure the following dialog appears. Close the dialog when finished. This completes the Inventory.



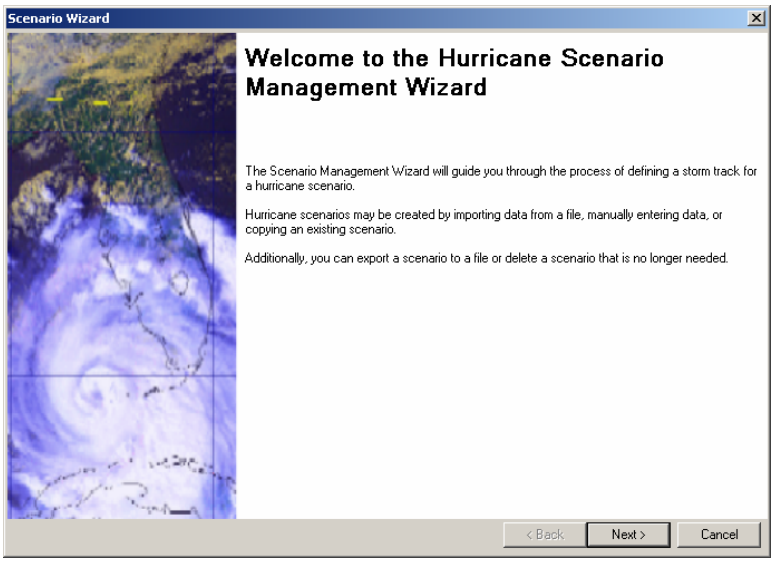
	Specific	General	Specific Description	General Descriptio
1	RES1	RES	Single Family Dwelling	Residential
2	RES2	RES	Manuf. Housing	Residential
3	RES3A	RES	Duplex	Residential
4	RES3B	RES	Triplex / Quads	Residential
5	RES3C	RES	Multi-dwellings (5 to 9 units)	Residential
6	RES3D	RES	Multi-dwellings (10 to 19 units)	Residential
7	RES3E	RES	Multi-dwellings (20 to 49 units)	Residential
8	RES3F	RES	Multi-dwellings (50+ units)	Residential
9	RES4	RES	Temporary Lodging	Residential
10	RES5	RES	Institutional Dormitory	Residential
11	RES6	RES	Nursing Home	Residential
12	COM1	COM	Retail Trade	Commercial

A.5 Hazard Verification

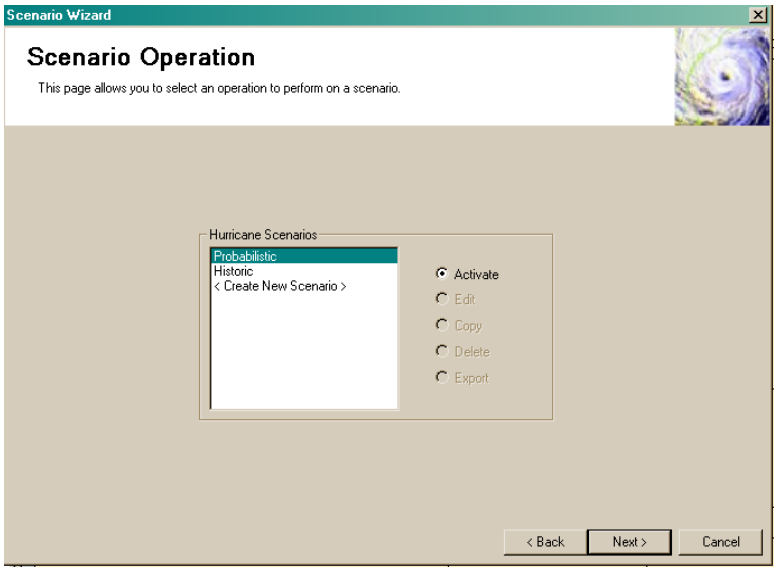
These steps will demonstrate that the Hurricane wind field model is functioning properly.

A.5.1 Set the Active Scenario to "Probabilistic"

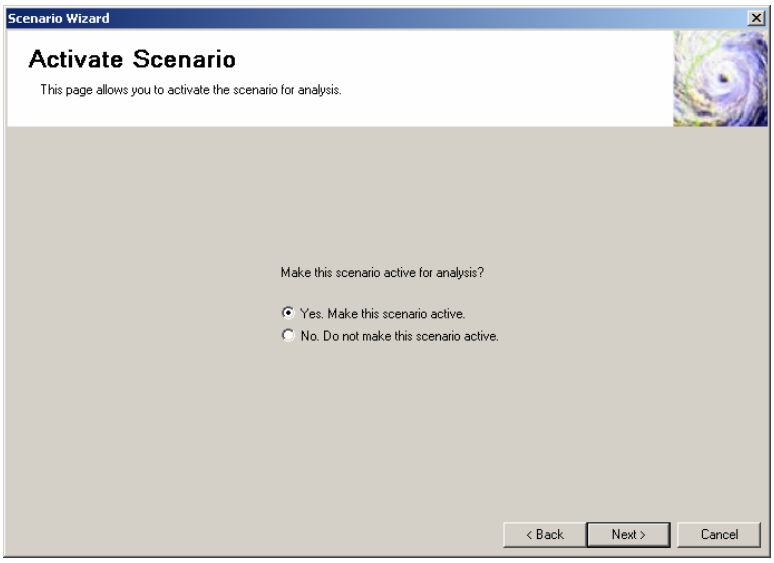
Use the Hazard | Scenario menu to start the scenario wizard:



Click the Next button



The default scenario is "Probabilistic." Click the Next button.

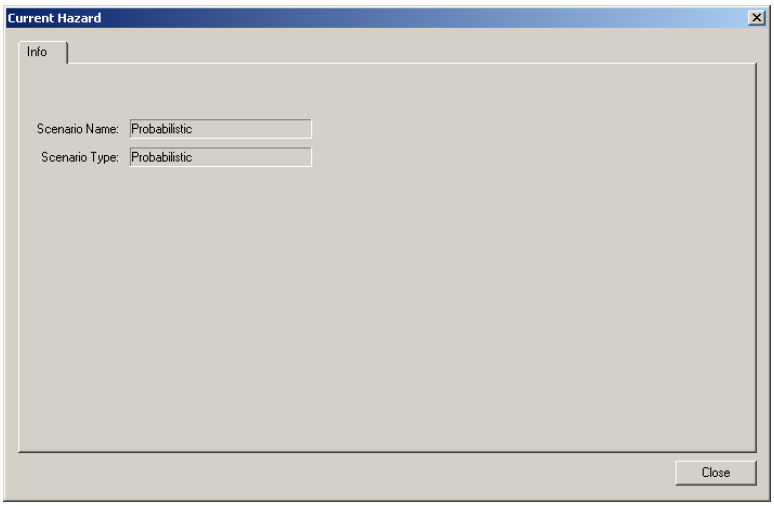


The default option is to set the new scenario as the active scenario. Click the Next button.

Click the “Finish” button to exit the wizard.

A.5.2 Show the Current Scenario

Use the Hazard | Show Current menu to review the current scenario.



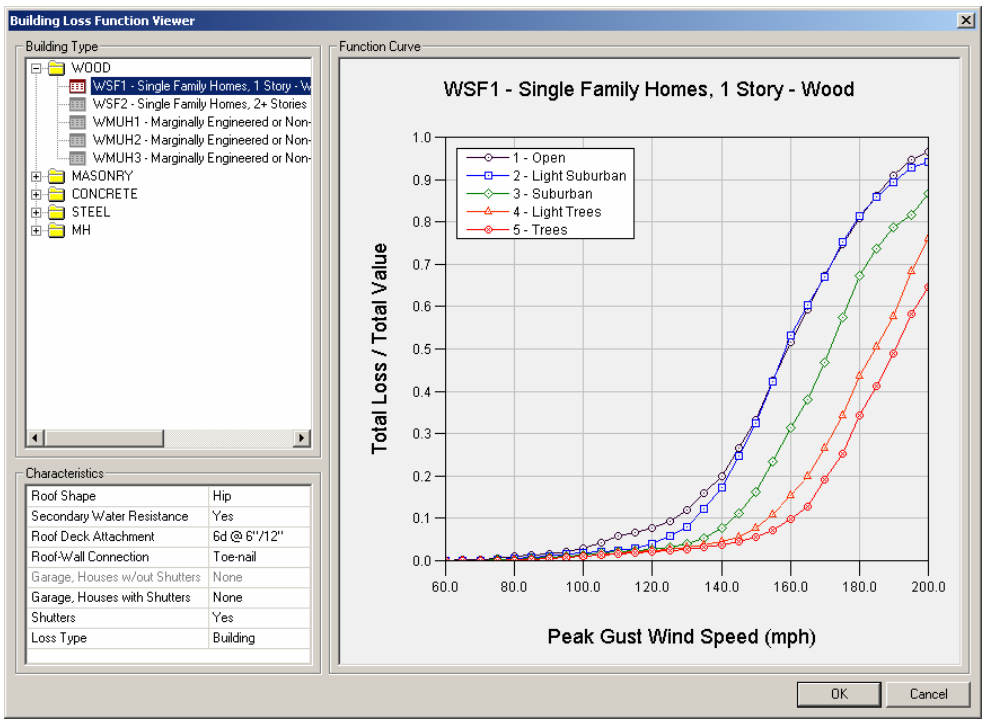
Click the Close button. This completes the Scenario menu.

A.6 Analysis Parameters Verification

These steps will demonstrate that the Analysis Parameters are functioning properly.

A.6.1 View Damage and Loss Functions

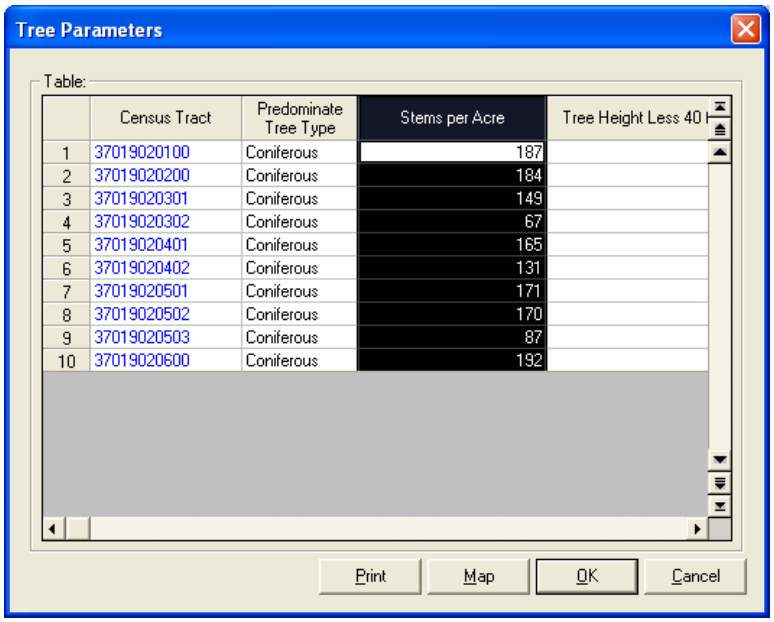
Click on the Analysis | Building Loss Functions menu to open the loss function viewer. Open the "Wood" folder in the top left and select WSF1. The following graph should appear:



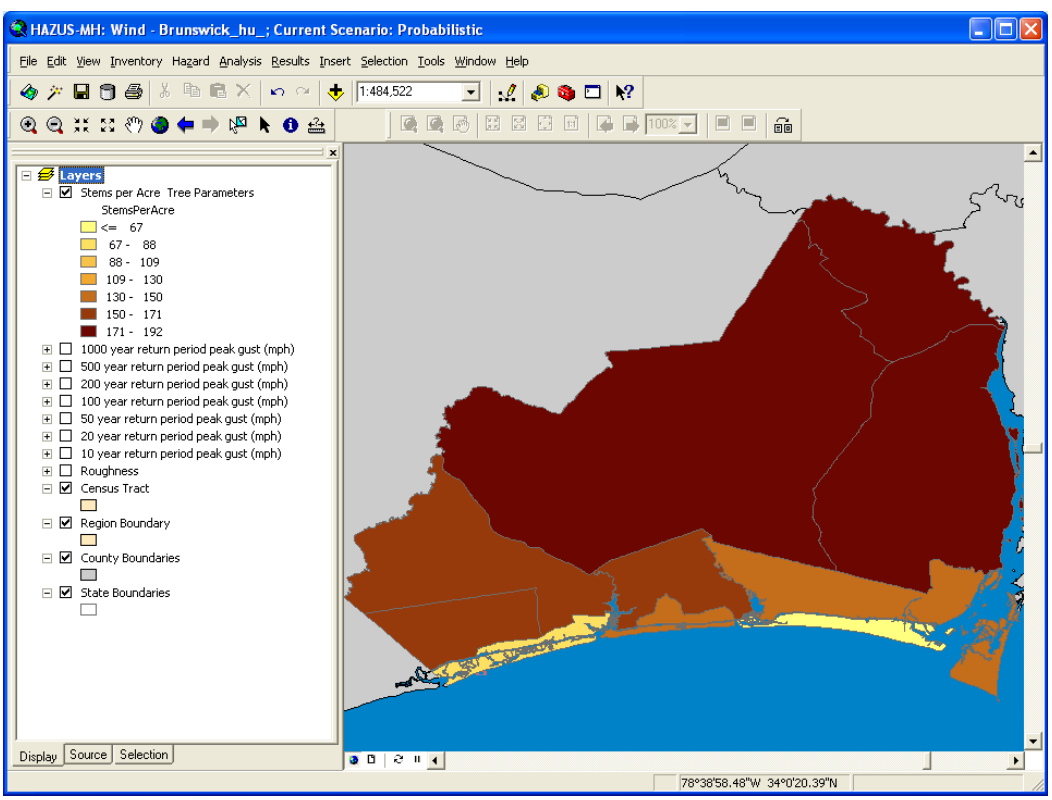
Close the window.

A.6.2 View Tree Parameters

Click on the Analysis | Parameters | Trees menu to open the tree parameters browser. Select the column "Stems Per Acre" and click on the Map button. The following map should appear:



	Census Tract	Predominate Tree Type	Stems per Acre	Tree Height Less 40 F
1	37019020100	Coniferous	187	
2	37019020200	Coniferous	184	
3	37019020301	Coniferous	149	
4	37019020302	Coniferous	67	
5	37019020401	Coniferous	165	
6	37019020402	Coniferous	131	
7	37019020501	Coniferous	171	
8	37019020502	Coniferous	170	
9	37019020503	Coniferous	87	
10	37019020600	Coniferous	192	



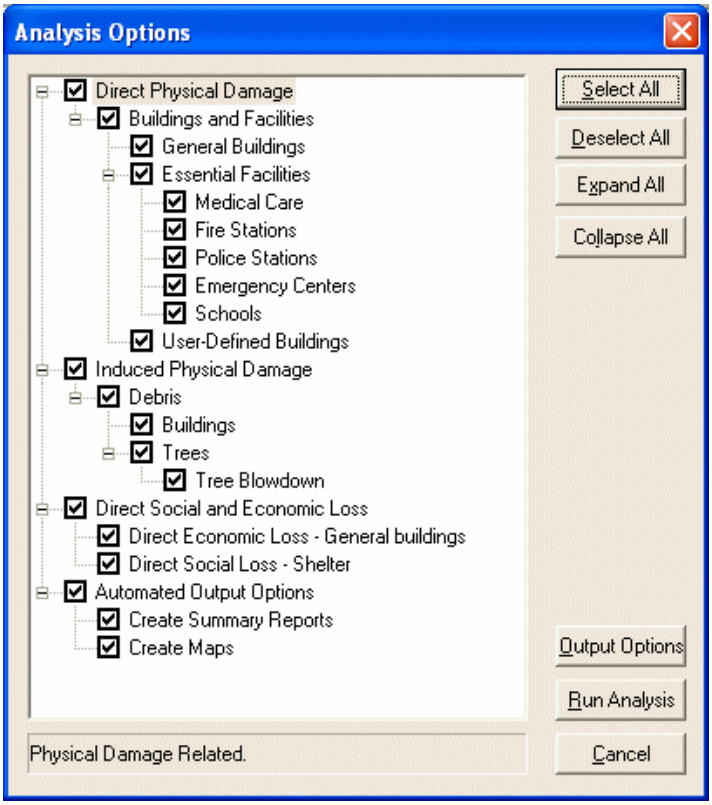
Close the browser.

A.7 Run a Probabilistic Analysis

These steps will demonstrate that the Analysis Run Dialog is functioning properly.

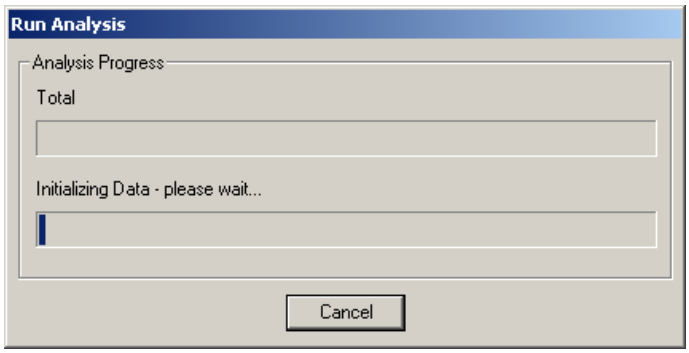
A.7.1 Open the Dialog

Click on the Analysis | Run menu option. This will bring up the analysis options dialog:

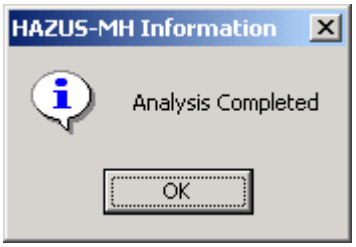


A.7.2 Start the Analysis

Click "Run Analysis" to start the analysis. A progress bar will appear:



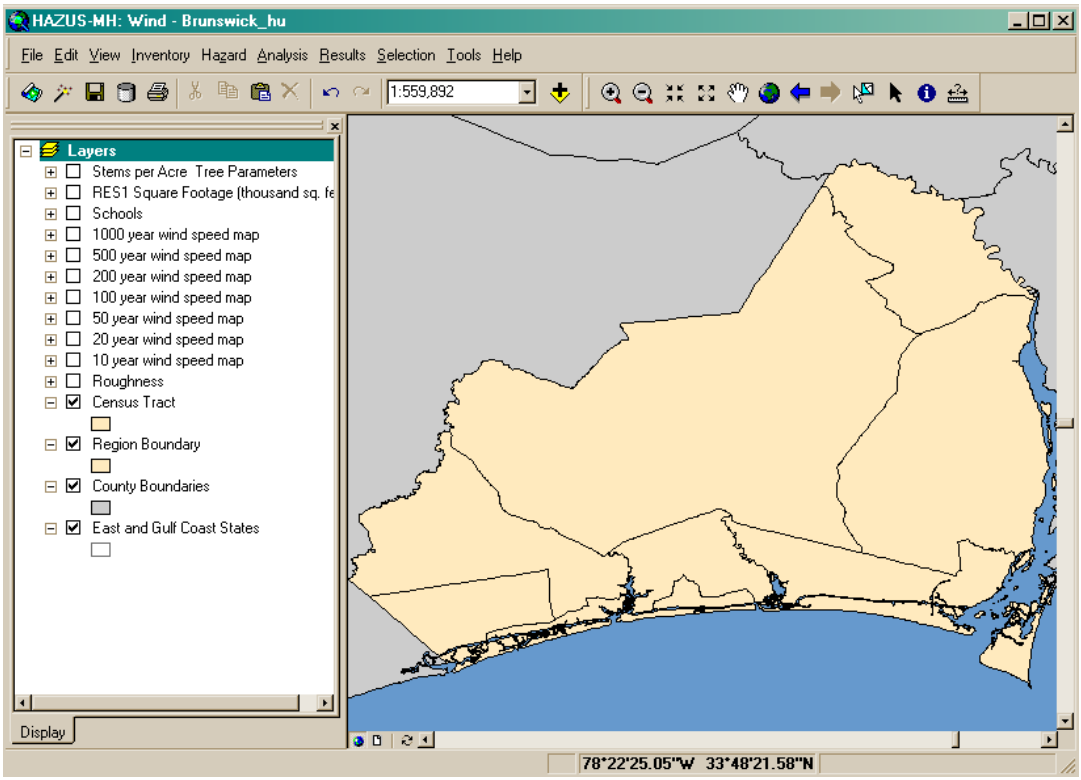
It will take 5-10 minutes to complete the analysis. When the analysis is complete, the following dialog will appear:



Click on the OK button in the Information dialog when the analysis is complete. This completes the Analysis menu.

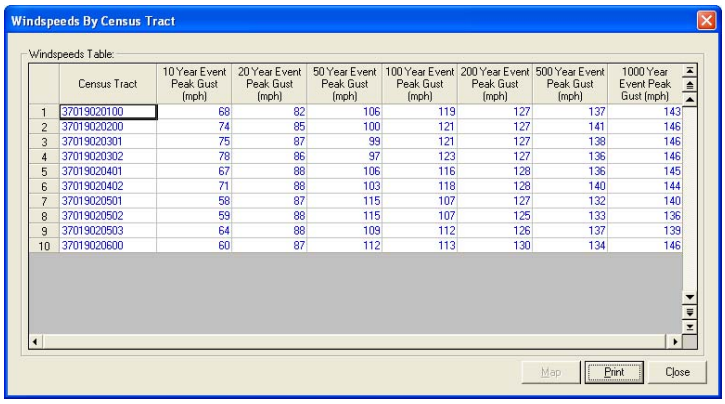
A.8 View Probabilistic Results and Print Reports

These steps will demonstrate that the Analysis Results Browsers and Summary Reports are functioning correctly. Before starting, uncheck all of the map layers except for the default layers.



A.8.1 Wind Speeds

Click on the Results | Wind Speeds menu option. This action will open the following dialog:



Windspeeds By Census Tract

Windspeeds Table:

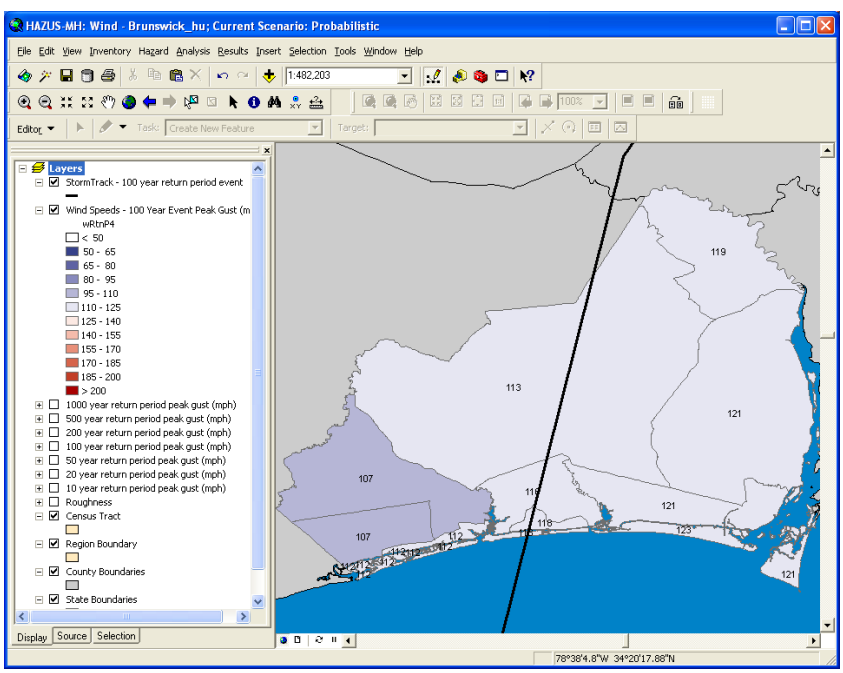
	Census Tract	10 Year Event Peak Gust (mph)	20 Year Event Peak Gust (mph)	50 Year Event Peak Gust (mph)	100 Year Event Peak Gust (mph)	200 Year Event Peak Gust (mph)	500 Year Event Peak Gust (mph)	1000 Year Event Peak Gust (mph)
1	37019020100	68	82	106	119	127	137	143
2	37019020200	74	85	100	121	127	141	146
3	37019020301	75	87	99	121	127	138	146
4	37019020302	78	86	97	123	127	136	146
5	37019020401	67	88	106	116	128	136	145
6	37019020402	71	88	103	118	128	140	144
7	37019020501	58	87	115	107	127	132	140
8	37019020502	59	88	115	107	125	133	136
9	37019020503	64	88	109	112	126	137	139
10	37019020600	60	87	112	113	130	134	146

Map Print Close

These are the wind speeds for the 7 individual events in the 100,000-year storm set that produced the 10, 20, 50, 100, 200, 500, and 1000-year total economic losses for the study region. For example, 1% of the storms in the storm set produced total economic losses equal to or greater than the specific storm represented by the wind speeds in the "100 Year Peak Wind Gust (mph)" column.

The wind speeds in this table are NOT the return period wind speeds for each individual census tract. That information is provided in the seven default layers shown in the map table of contents.

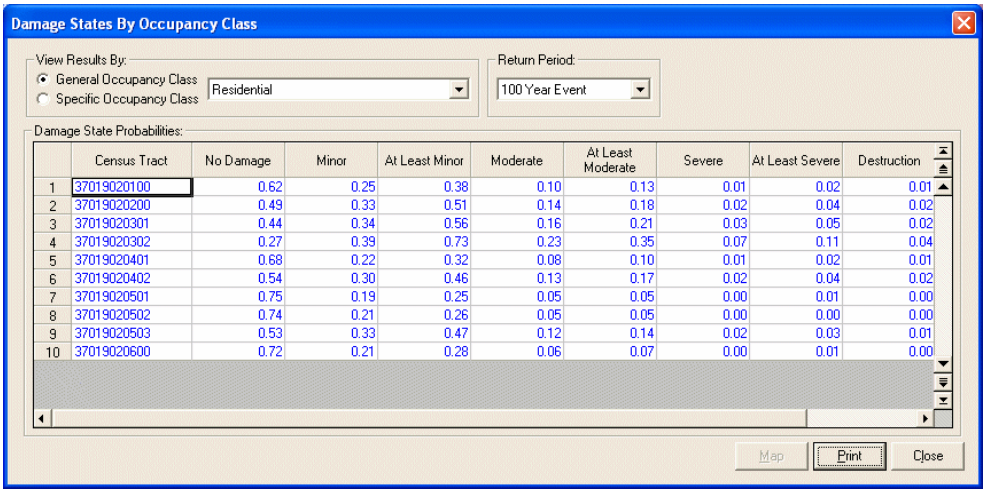
Select the 100-year column and click on the map button. The following map should appear along with the storm track for the 100 year return period event.



Close the dialog.

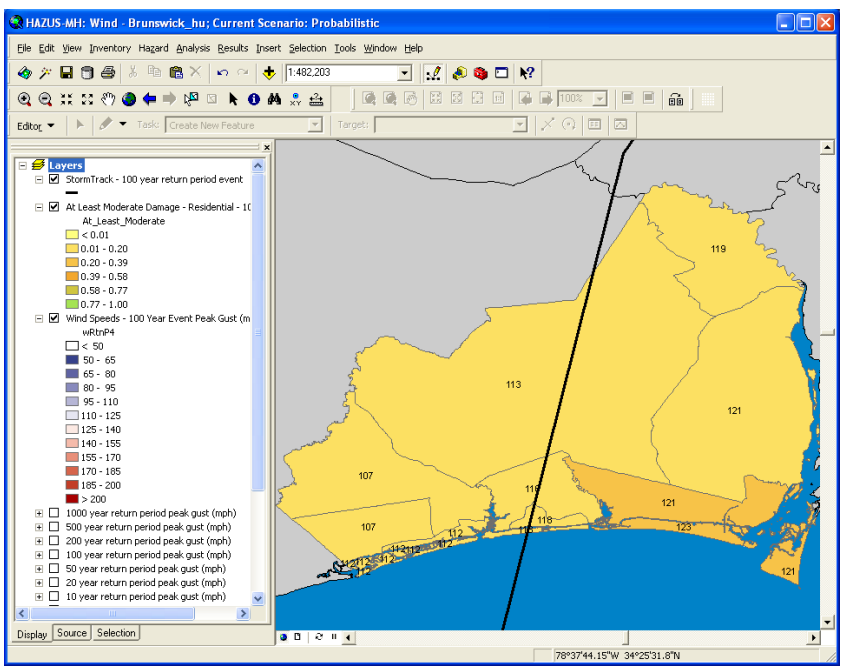
A.8.2 Building Damage

Click on the Results | General Building Stock | By Occupancy menu option. This action will open the following dialog:



	Census Tract	No Damage	Minor	At Least Minor	Moderate	At Least Moderate	Severe	At Least Severe	Destruction
1	37019020100	0.62	0.25	0.38	0.10	0.13	0.01	0.02	0.01
2	37019020200	0.49	0.33	0.51	0.14	0.18	0.02	0.04	0.02
3	37019020301	0.44	0.34	0.56	0.16	0.21	0.03	0.05	0.02
4	37019020302	0.27	0.39	0.73	0.23	0.35	0.07	0.11	0.04
5	37019020401	0.68	0.22	0.32	0.08	0.10	0.01	0.02	0.01
6	37019020402	0.54	0.30	0.46	0.13	0.17	0.02	0.04	0.02
7	37019020501	0.75	0.19	0.25	0.05	0.05	0.00	0.01	0.00
8	37019020502	0.74	0.21	0.26	0.05	0.05	0.00	0.00	0.00
9	37019020503	0.53	0.33	0.47	0.12	0.14	0.02	0.03	0.01
10	37019020600	0.72	0.21	0.28	0.06	0.07	0.00	0.01	0.00

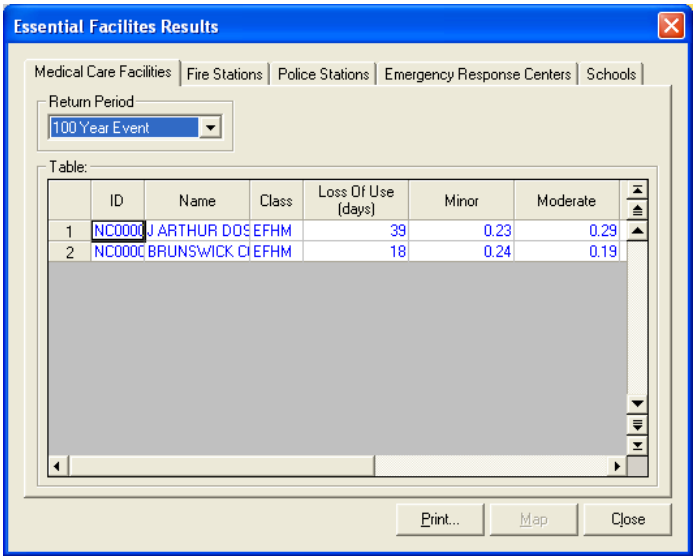
Select the "At Least Moderate" column and click on the map button. The following map should appear.



You can examine sample results for any occupancy category for seven different events by selecting different return periods. These are the same seven events summarized in the wind speed results table in Section A.8.1.

A.8.3 Essential Facility Damage

Click on the Results | Essential Facilities menu option. This action will open the following dialog:

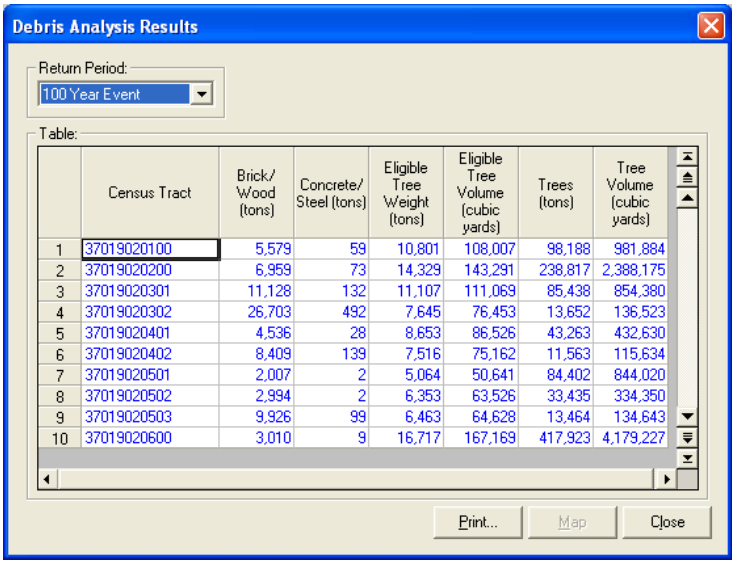


	ID	Name	Class	Loss Of Use (days)	Minor	Moderate
1	NC0000	J ARTHUR DOS	EFHM	39	0.23	0.29
2	NC0000	BRUNSWICK CI	EFHM	18	0.24	0.19

As with the previous results, you can view the results for different return periods or select one of the columns to map the data.

A.8.4 Debris

Click on the Results | Debris menu option. This action will open the following dialog:

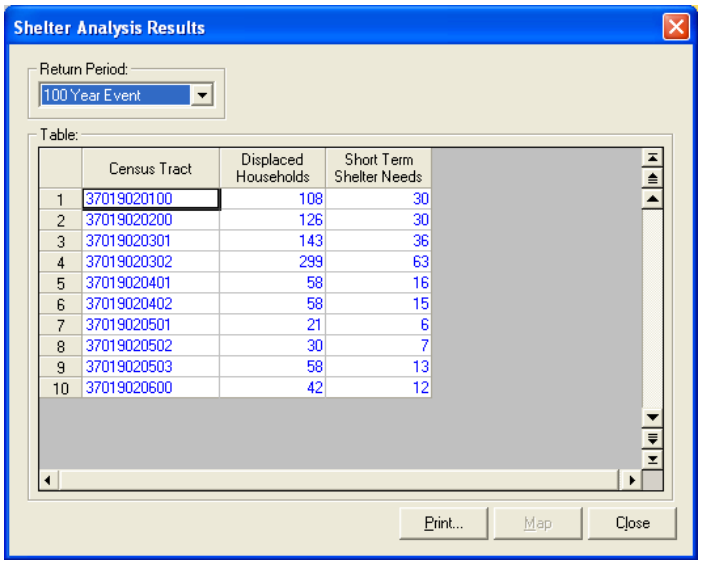


	Census Tract	Brick/ Wood (tons)	Concrete/ Steel (tons)	Eligible Tree Weight (tons)	Eligible Tree Volume (cubic yards)	Trees (tons)	Tree Volume (cubic yards)
1	37019020100	5,579	59	10,801	108,007	98,188	981,884
2	37019020200	6,959	73	14,329	143,291	238,817	2,388,175
3	37019020301	11,128	132	11,107	111,069	85,438	854,380
4	37019020302	26,703	492	7,645	76,453	13,652	136,523
5	37019020401	4,536	28	8,653	86,526	43,263	432,630
6	37019020402	8,409	139	7,516	75,162	11,563	115,634
7	37019020501	2,007	2	5,064	50,641	84,402	844,020
8	37019020502	2,994	2	6,353	63,526	33,435	334,350
9	37019020503	9,926	99	6,463	64,628	13,464	134,643
10	37019020600	3,010	9	16,717	167,169	417,923	4,179,227

As with the previous results, you can view the results for different return periods or select one of the columns to map the data.

A.8.5 Shelter Requirements

Click on the Results | Shelter menu option. This action will open the following dialog:

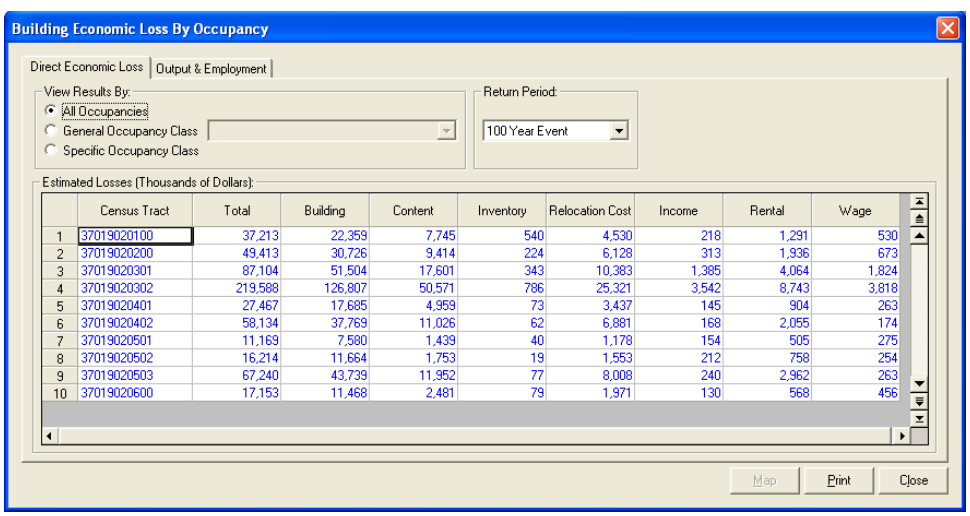


	Census Tract	Displaced Households	Short Term Shelter Needs
1	37019020100	108	30
2	37019020200	126	30
3	37019020301	143	36
4	37019020302	299	63
5	37019020401	58	16
6	37019020402	58	15
7	37019020501	21	6
8	37019020502	30	7
9	37019020503	58	13
10	37019020600	42	12

As with the previous results, you can view the results for different return periods and then select one of the results columns and map the data.

A.8.6 Direct Economic Losses

Click on the Results | Building Economic Loss | By Occupancy menu option. This action will open the following dialog:

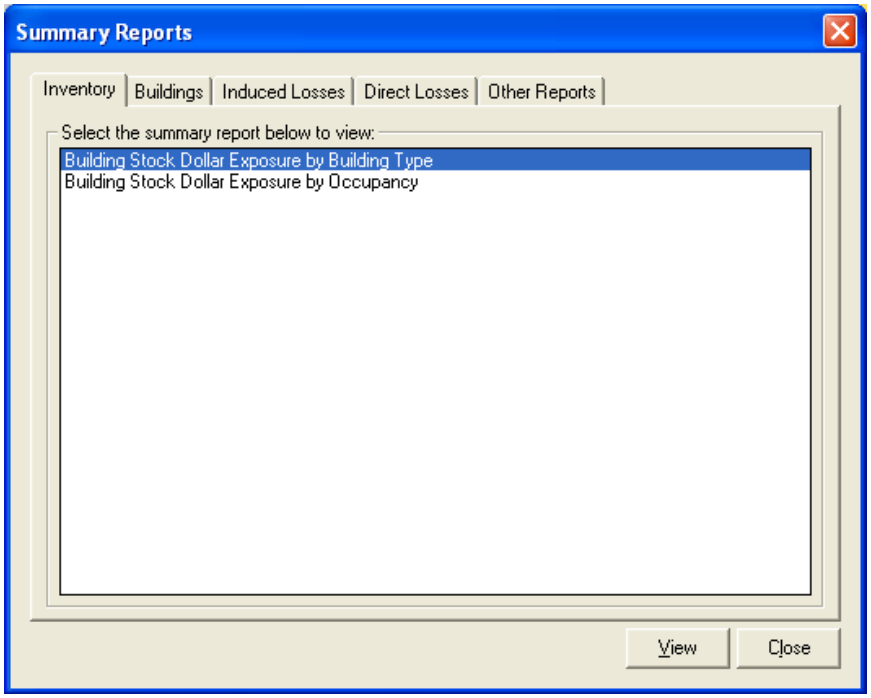


	Census Tract	Total	Building	Content	Inventory	Relocation Cost	Income	Rental	Wage
1	37019020100	37,213	22,359	7,745	540	4,530	218	1,291	530
2	37019020200	49,413	30,726	9,414	224	6,128	313	1,936	673
3	37019020301	87,104	51,504	17,601	343	10,383	1,385	4,064	1,824
4	37019020302	219,588	126,807	50,571	786	25,321	3,542	8,743	3,818
5	37019020401	27,467	17,685	4,959	73	3,437	145	904	263
6	37019020402	58,134	37,769	11,026	62	6,881	168	2,055	174
7	37019020501	11,169	7,580	1,439	40	1,178	154	505	275
8	37019020502	16,214	11,664	1,753	19	1,553	212	758	254
9	37019020503	67,240	43,739	11,952	77	8,008	240	2,962	263
10	37019020600	17,153	11,468	2,481	79	1,971	130	568	456

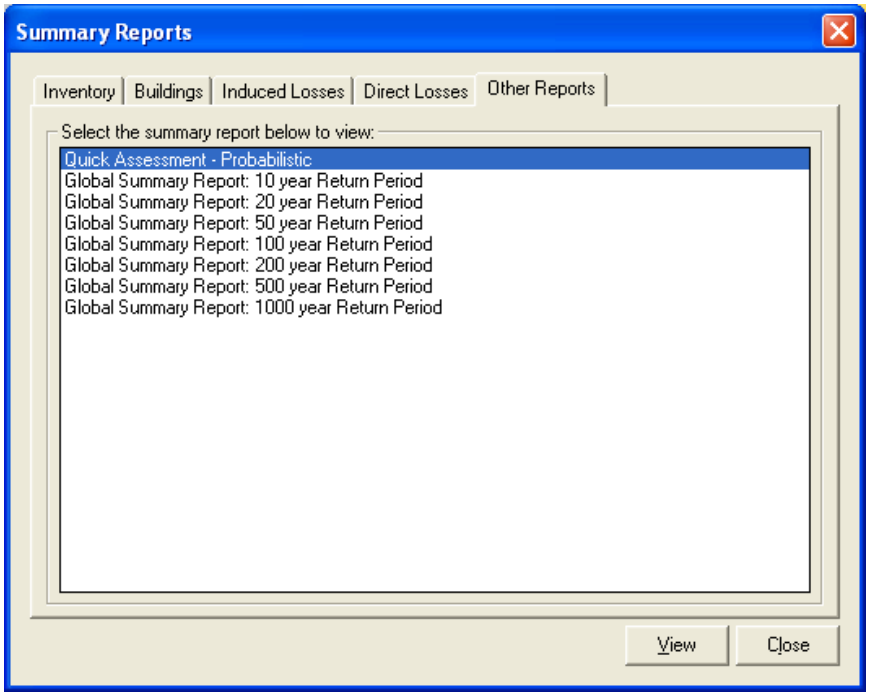
As with the previous results, you can view the results for different return periods and then select one of the results columns and map the data. To view the annualized economic losses, select the last entry in the Return Period drop-down box.

A.8.7 Summary Reports

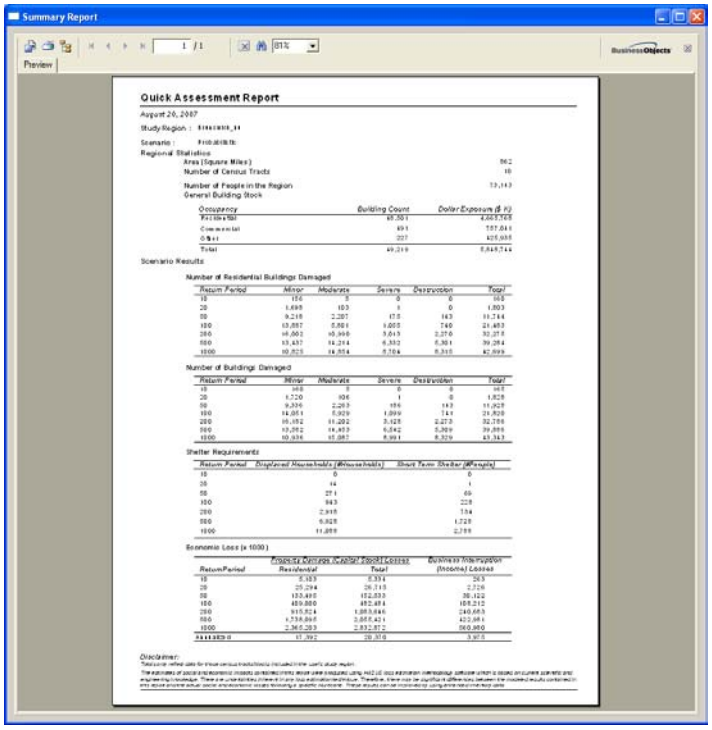
Click on the Results | Summary Reports menu option. This action will open the following dialog:



Click on the "Other Reports" tab.



Click on the View button to see the Quick Assessment report:



Close the quick assessment report and the summary reports dialog. This concludes the test cases for the Results menu.

A.9 Hazard Verification – Scenario Storm

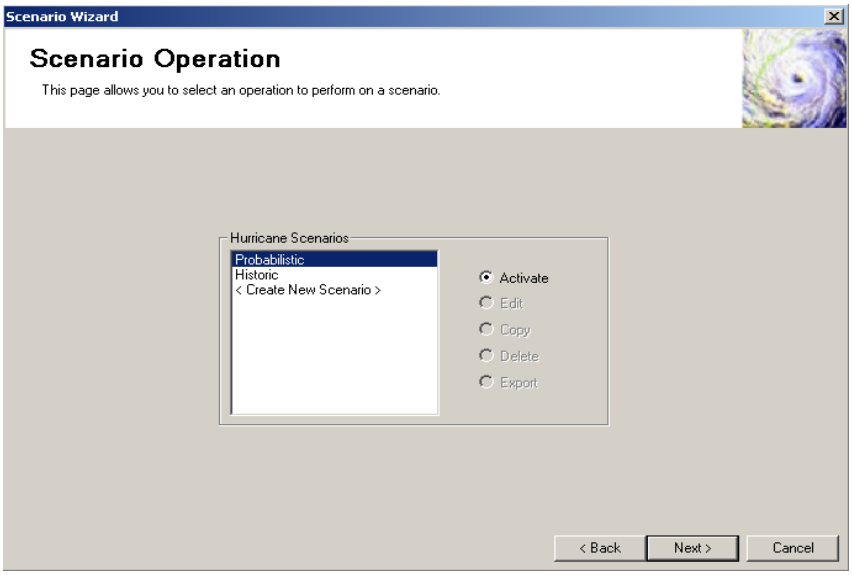
These steps will demonstrate that the Hurricane wind field model is functioning properly.

A.9.1 Create a New Scenario

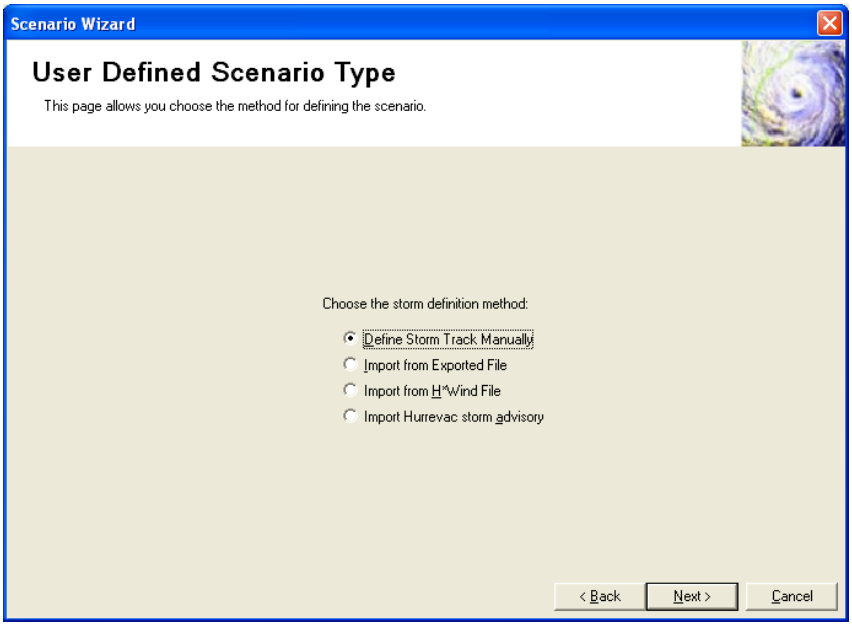
Use the Hazard | Scenario menu to start the scenario wizard:

Click the Next button

Select “<Create New Scenario>”.

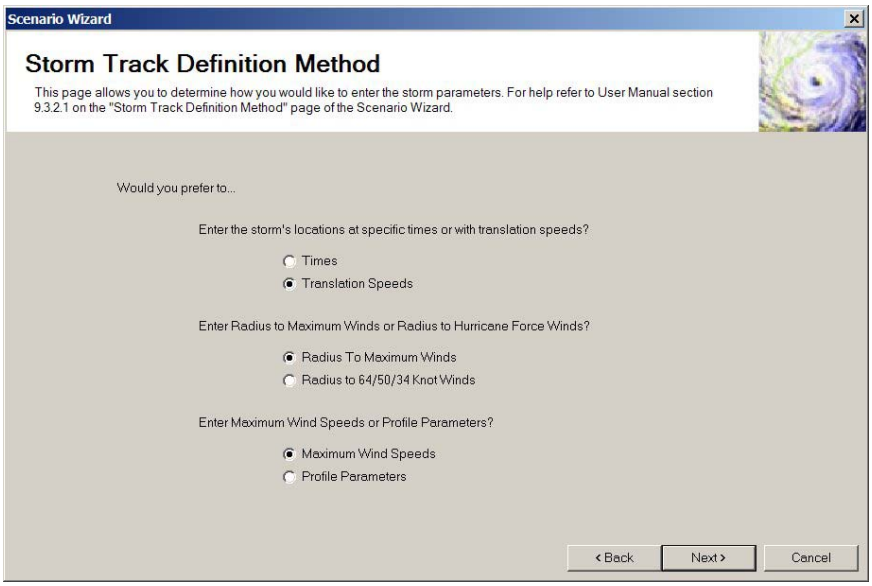


Click the Next button.

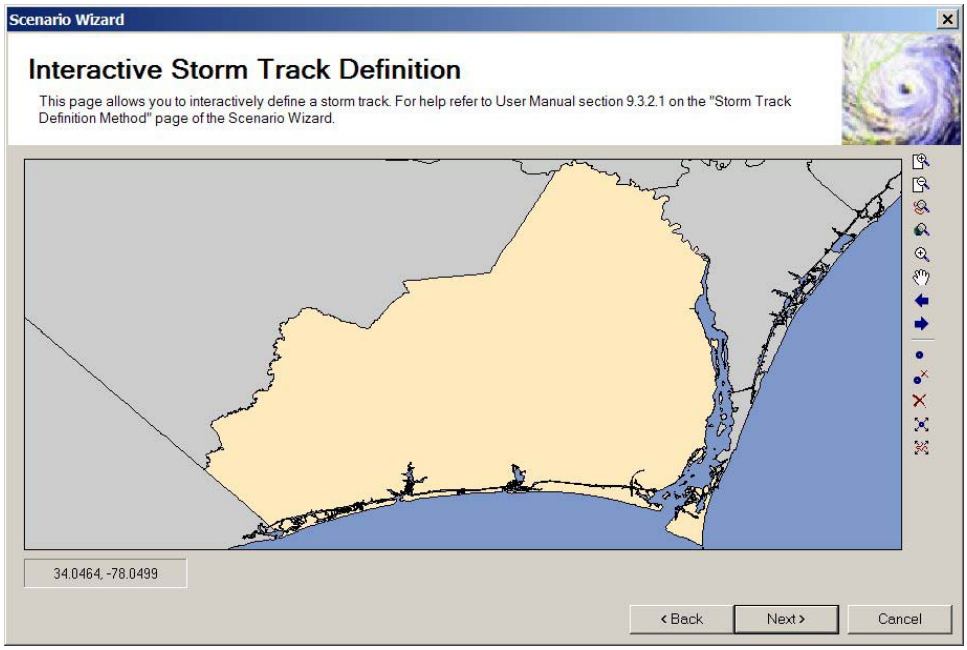


Select “Define Storm Track Manually” and click the Next button.

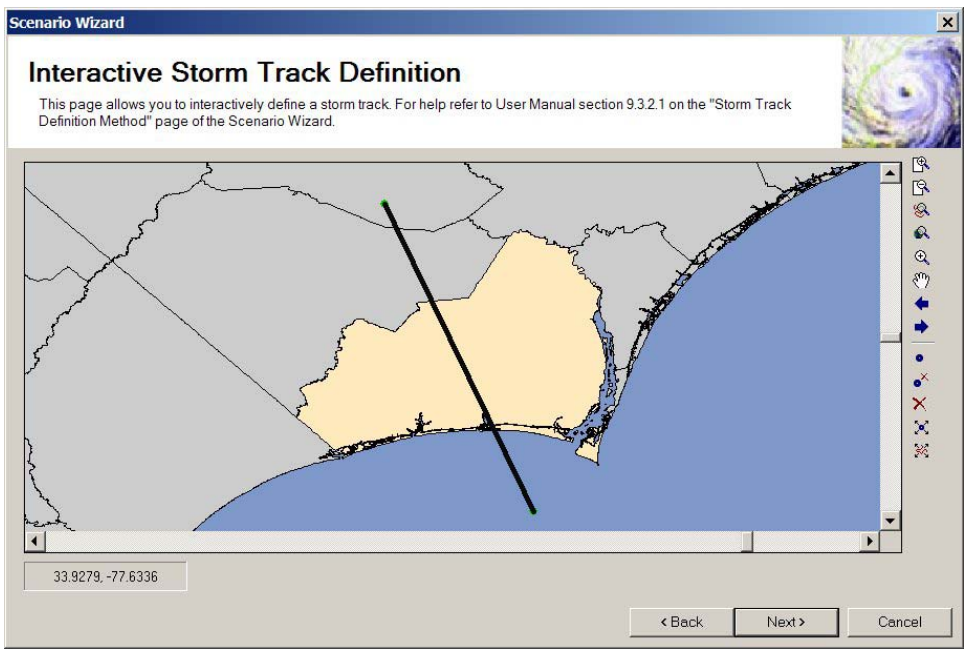
Name the new scenario “Scenario1” and click the Next button.



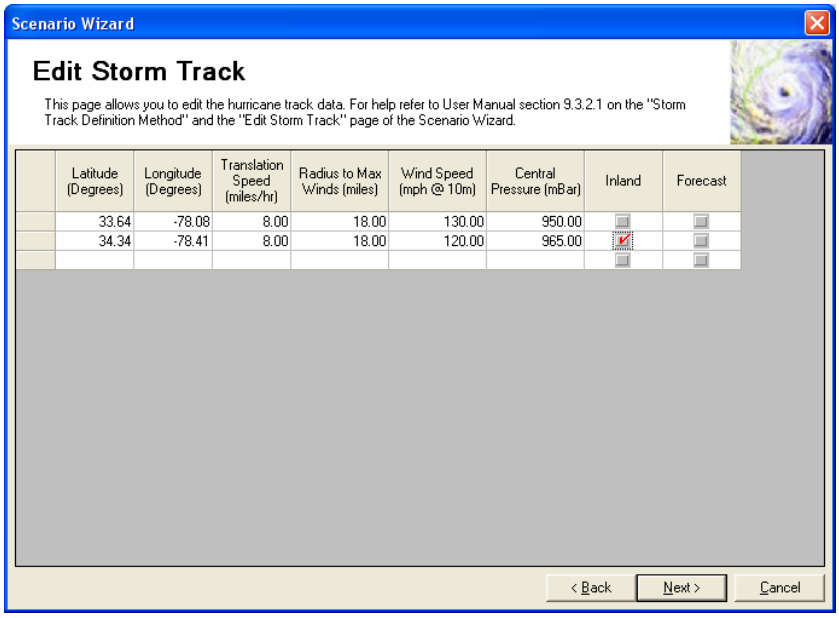
Accept the defaults shown above and click the Next button.



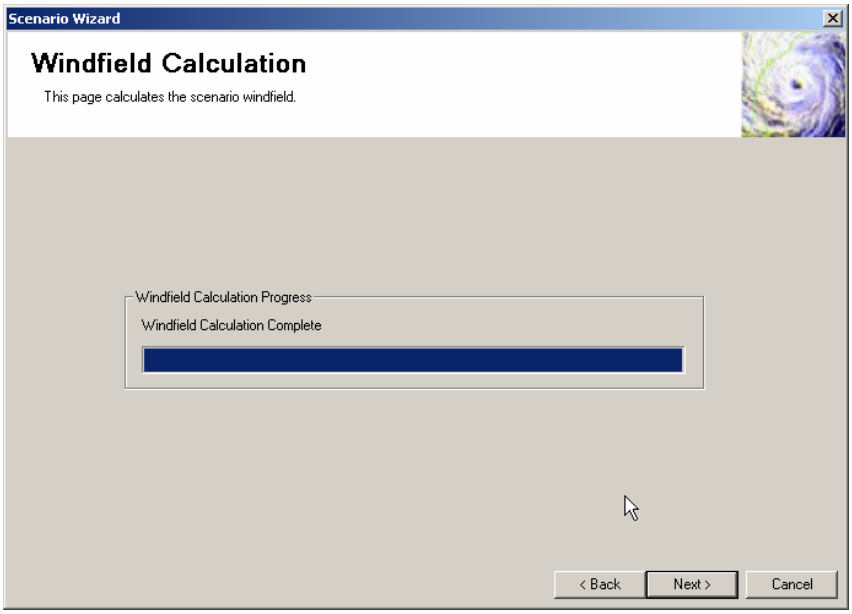
Use the “Add Point” tool to create a two-point track similar to the one shown below.



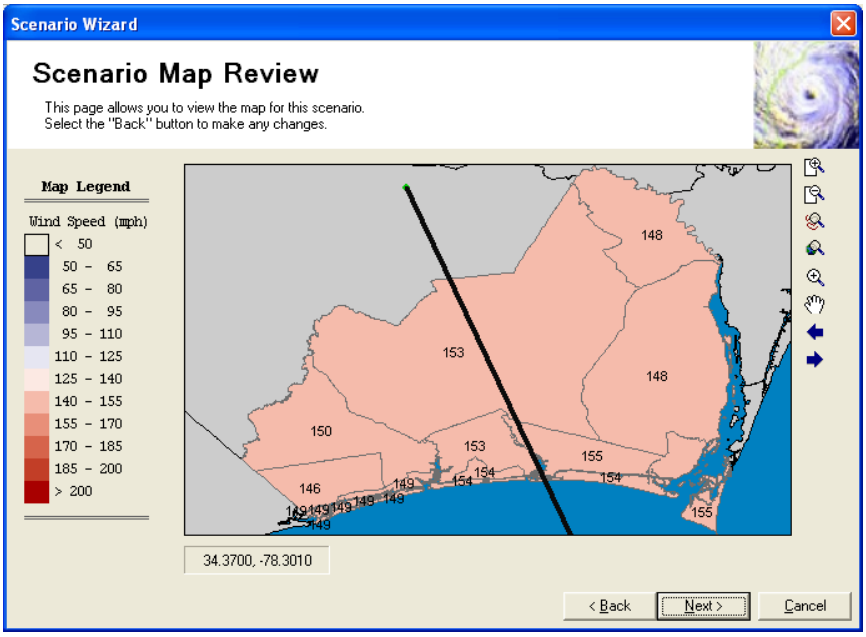
Click on the Next button.



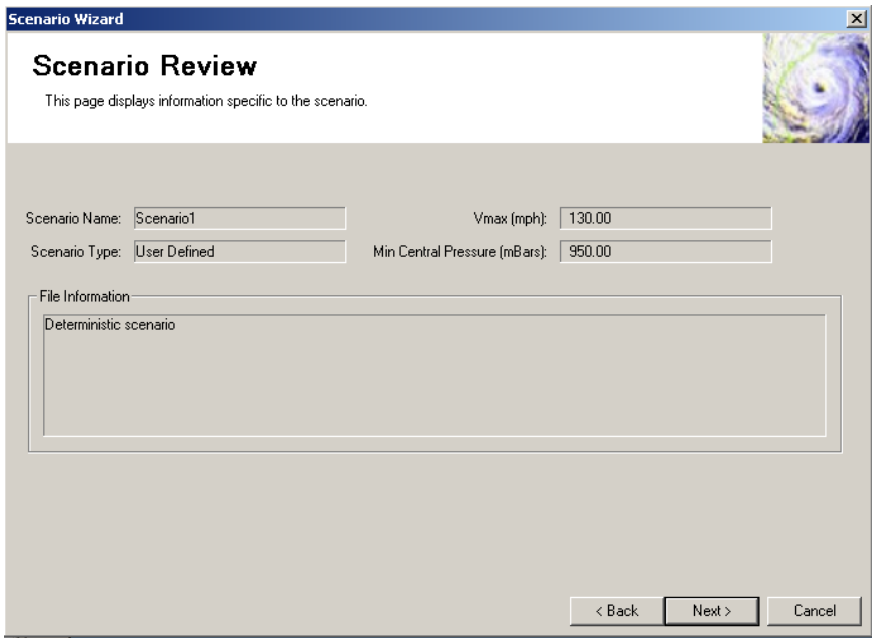
Adjust the coordinates to match the latitudes and longitudes shown above and fill in the rest of the table as shown. Click on the Next button to start the wind field calculation.



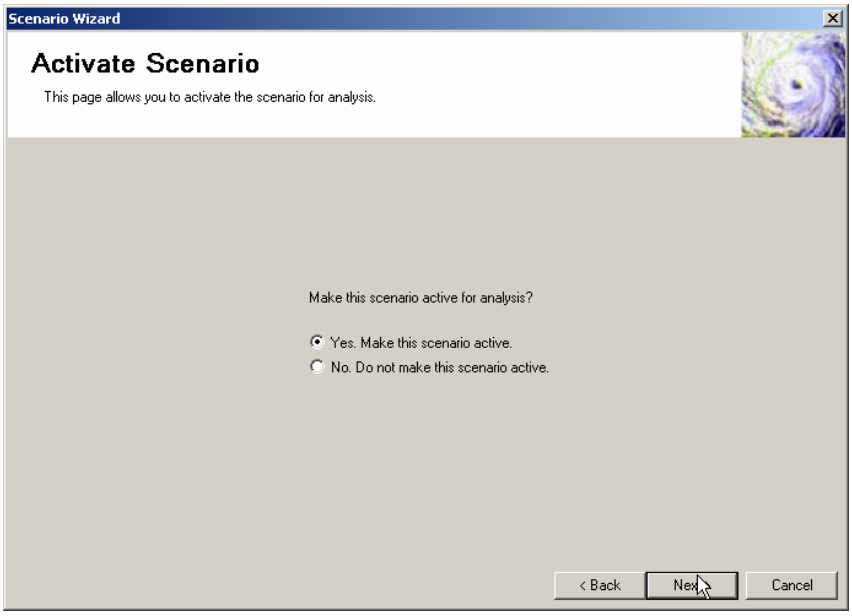
When the wind field analysis is complete, click on the Next button.



Review the map of the computed wind speeds and click on the Next button.



Review the scenario summary and click on the Next button.

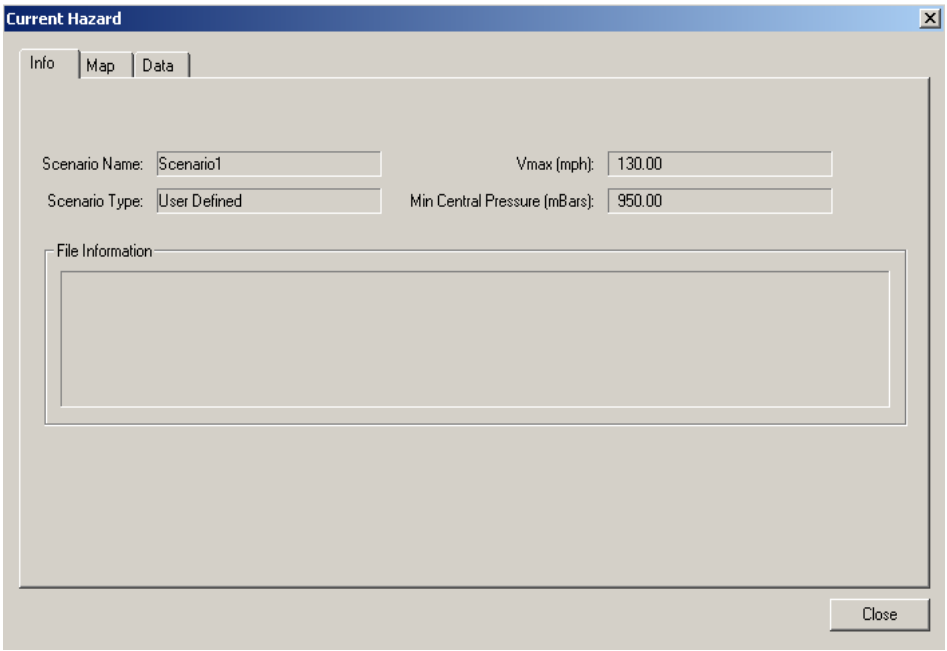


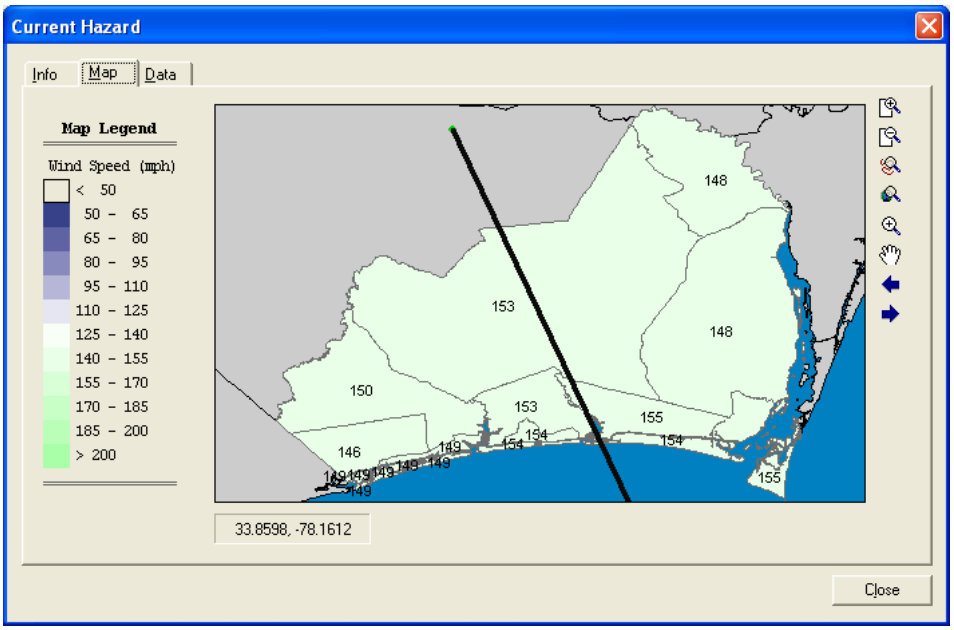
Activate the new scenario by accepting the default option on the screen shown above. Click on the Next button.

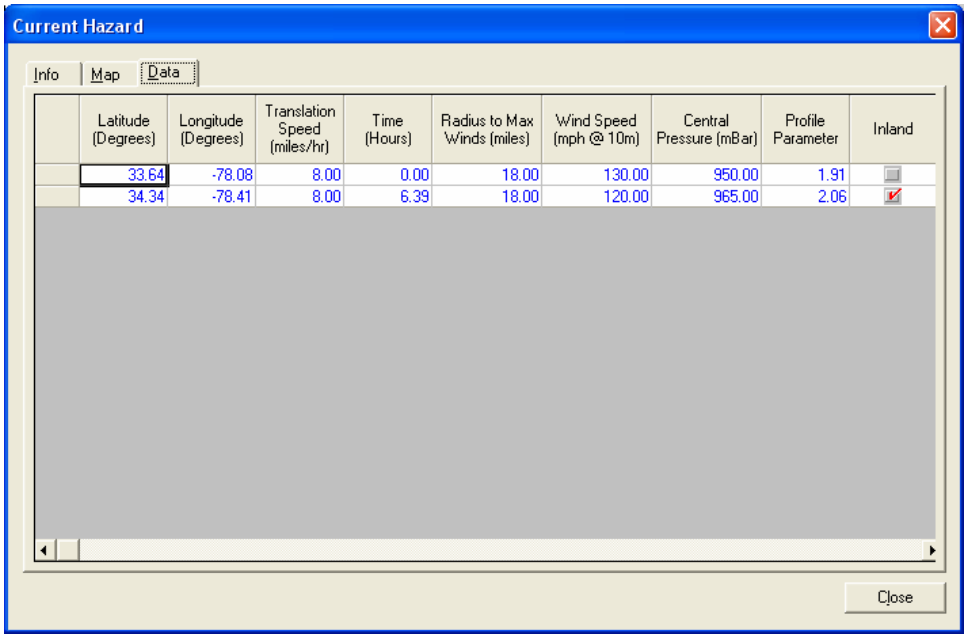
Click the “Finish” button to exit the wizard.

A.9.2 Show the Current Scenario

Use the Hazard | Show Current menu to review the current scenario.





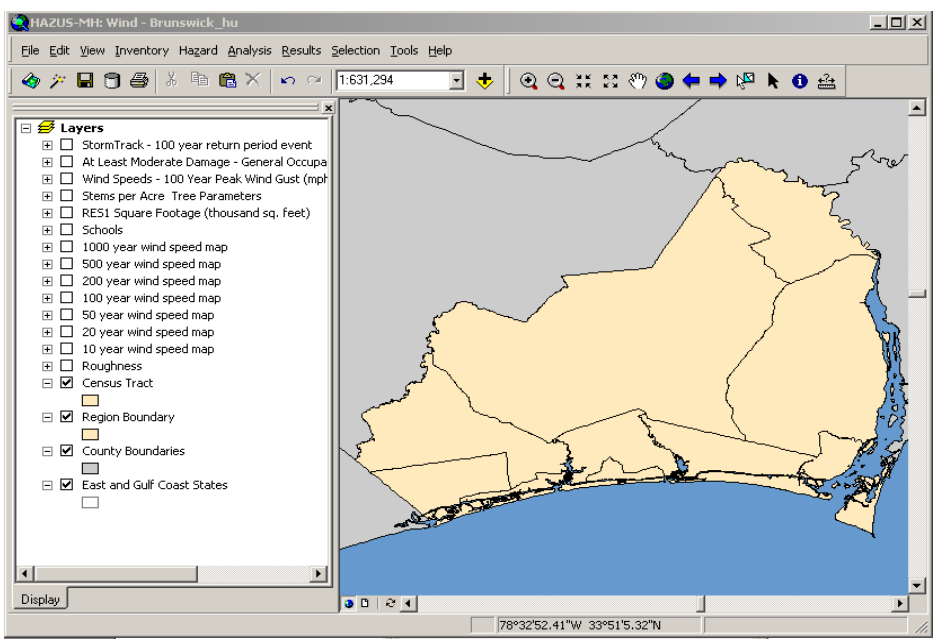


Click the Close button.

This completes the definition of the scenario.

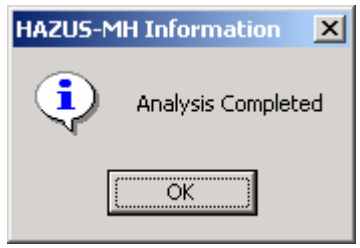
A.10 View Scenario Results and Print Reports

These steps will demonstrate that the Analysis Results Browsers and Summary Reports are functioning correctly. Before starting, uncheck all of the map layers except for the default layers.



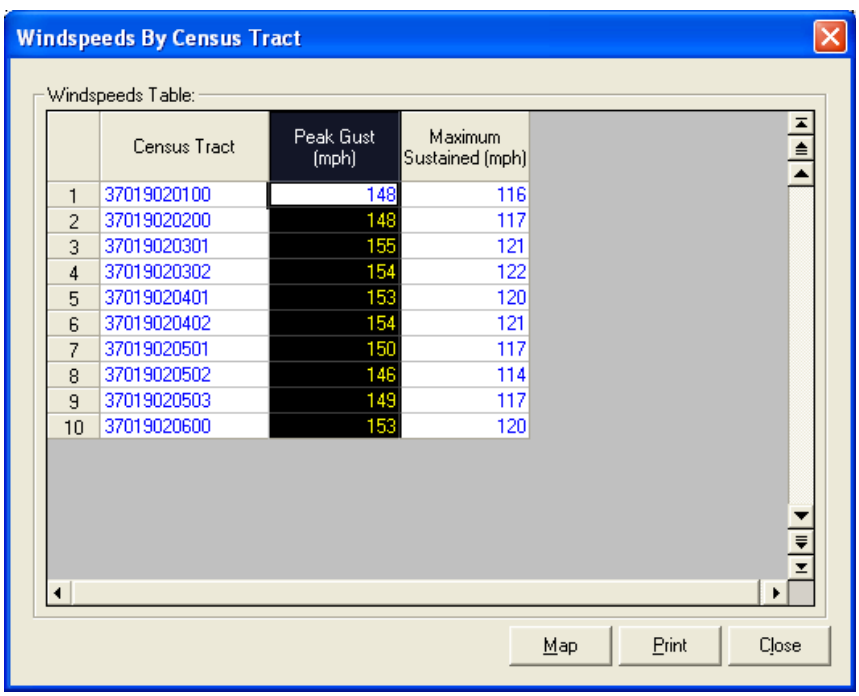
A.10.1 Run the Analysis

Click on the Analysis | Run menu option and follow the instruction in Section A.7 to run the analysis. When the analysis is completed, click on the OK button in the Information dialog and the Close button in the Run Analysis dialog.



A.10.2 Wind Speeds

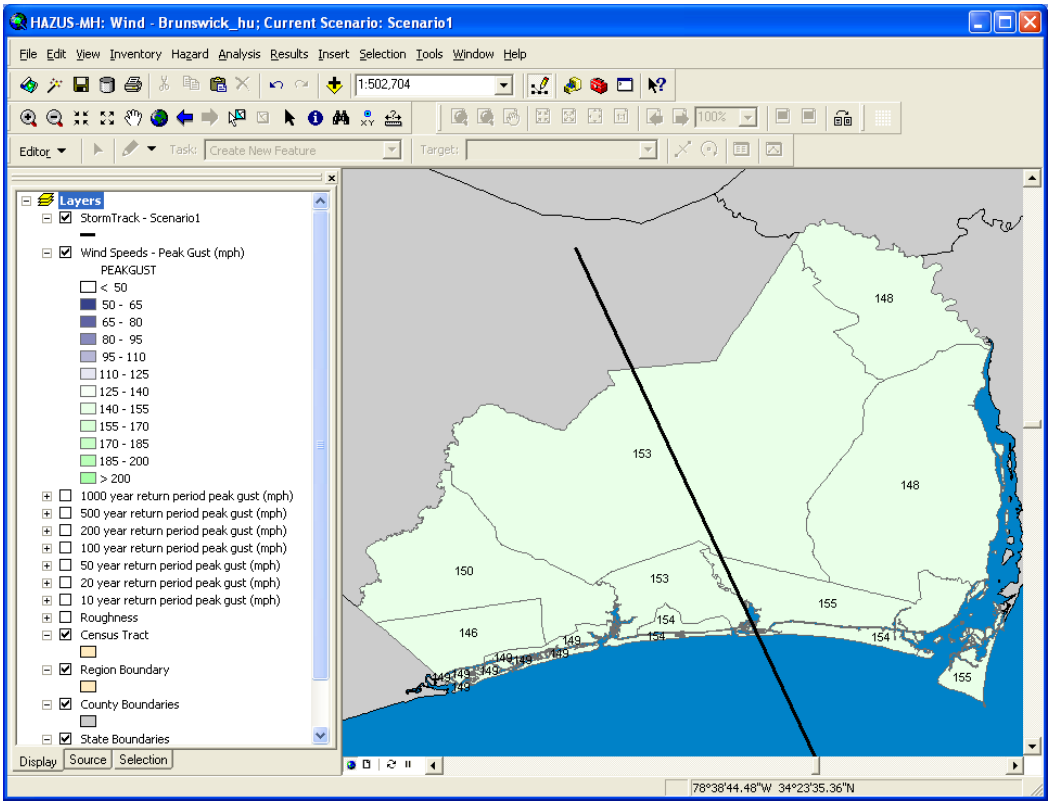
Click on the Results | Wind Speeds menu option. This action will open the following dialog:



	Census Tract	Peak Gust (mph)	Maximum Sustained (mph)
1	37019020100	148	116
2	37019020200	148	117
3	37019020301	155	121
4	37019020302	154	122
5	37019020401	153	120
6	37019020402	154	121
7	37019020501	150	117
8	37019020502	146	114
9	37019020503	149	117
10	37019020600	153	120

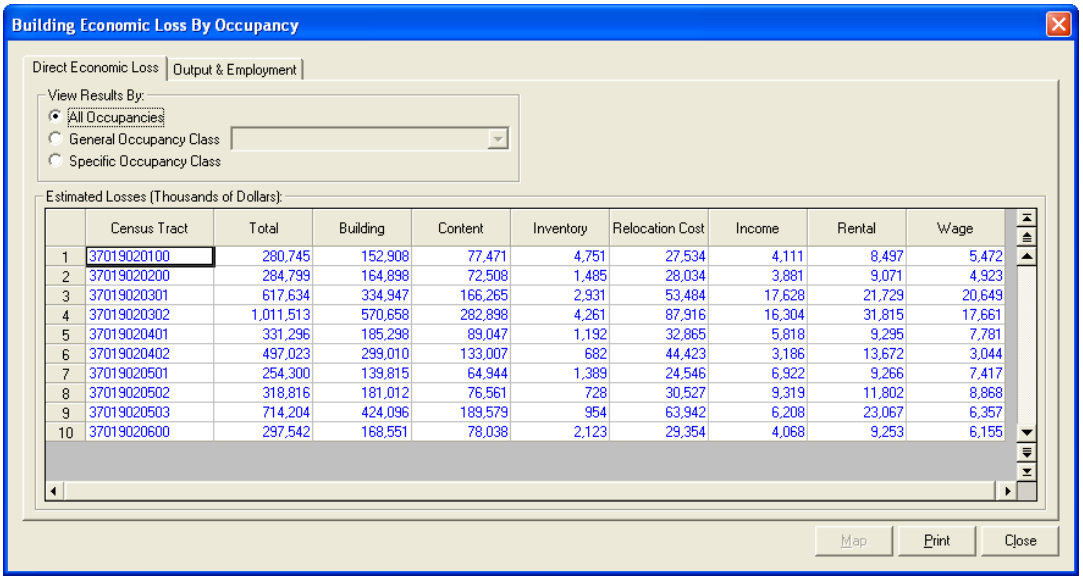
The peak gust (3 second average, open terrain) and maximum sustained (1-minute average, open terrain) wind speed estimates for the scenario are displayed.

Select the Peak Gust column, click on the map button, and close the browser. The following map should appear.



A.10.3 Direct Economic Losses

Click on the Results | Building Economic Loss | By Occupancy menu option. This action will open the following dialog:

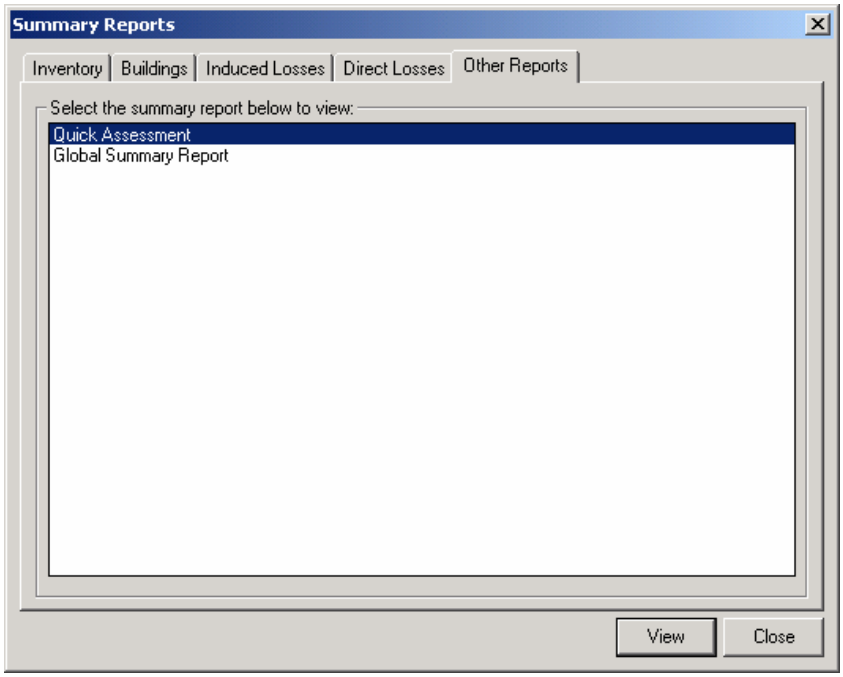


	Census Tract	Total	Building	Content	Inventory	Relocation Cost	Income	Rental	Wage
1	37019020100	280,745	152,908	77,471	4,751	27,534	4,111	8,497	5,472
2	37019020200	284,799	164,898	72,508	1,485	28,034	3,881	9,071	4,923
3	37019020301	617,634	334,947	166,265	2,931	53,484	17,628	21,729	20,649
4	37019020302	1,011,513	570,658	282,898	4,261	87,916	16,304	31,815	17,661
5	37019020401	331,296	185,298	89,047	1,192	32,865	5,818	9,295	7,781
6	37019020402	497,023	299,010	133,007	682	44,423	3,186	13,672	3,044
7	37019020501	254,300	139,815	64,944	1,389	24,546	6,922	9,266	7,417
8	37019020502	318,816	181,012	76,561	728	30,527	9,319	11,802	8,868
9	37019020503	714,204	424,096	189,579	954	63,942	6,208	23,067	6,357
10	37019020600	297,542	168,551	78,038	2,123	29,354	4,068	9,253	6,155

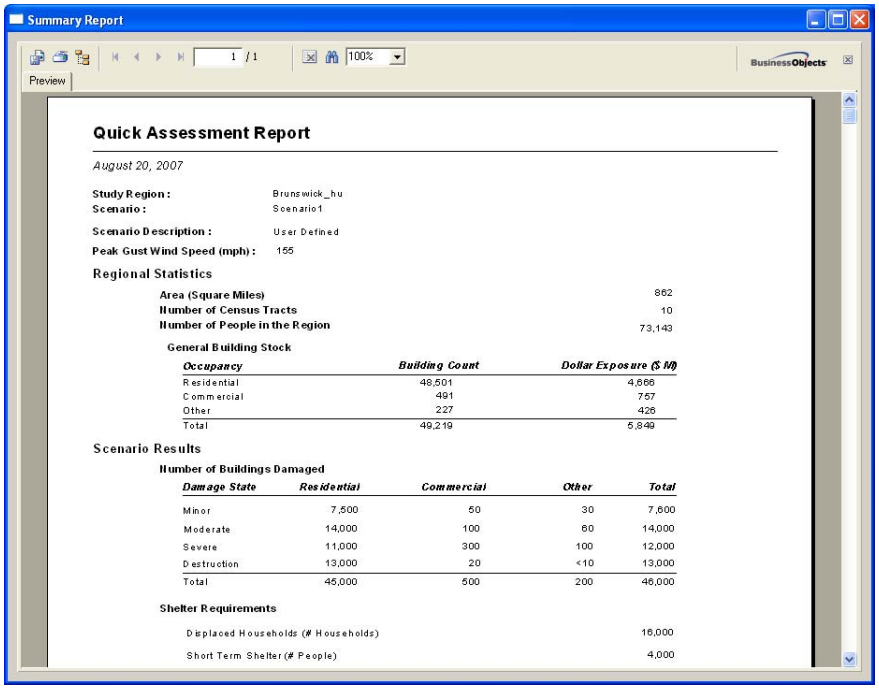
Close the browser.

A.10.4 Summary Reports

Click on the Results | Summary Reports menu option. This action will open the following dialog:



Click on the View button to see the Quick Assessment report.



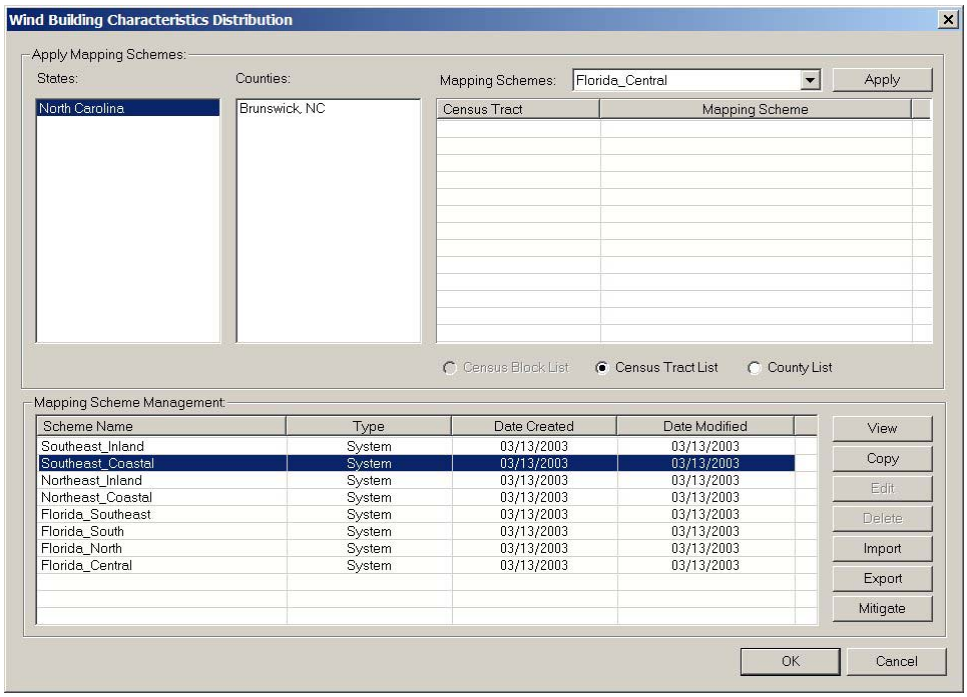
Close the quick assessment report and the summary reports dialog. This concludes the test cases for the Results menu.

A.11 Run a Mitigation Example

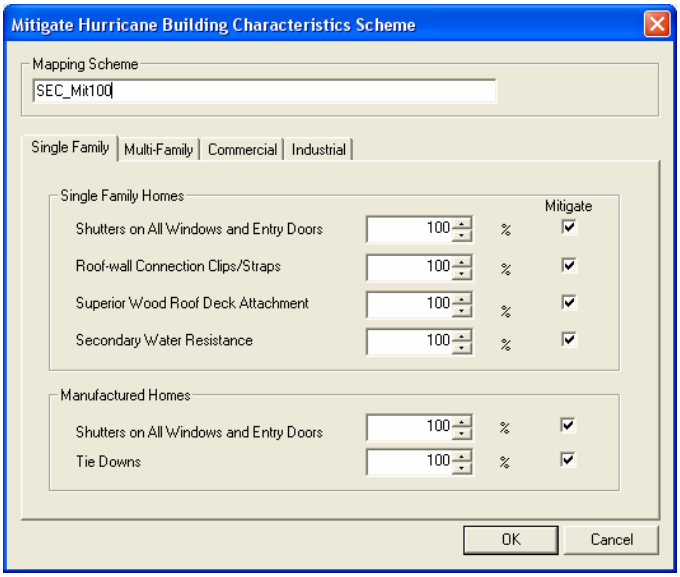
The following steps will demonstrate that the mitigation feature is functioning correctly.

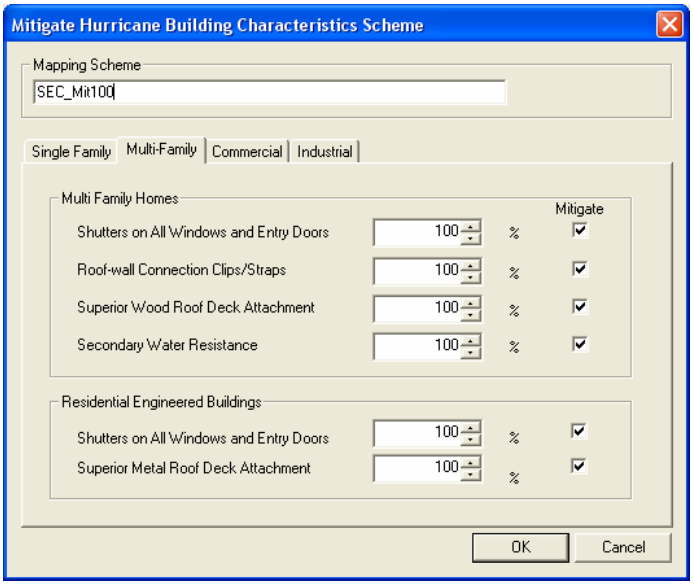
A.11.1 Mitigate the Building Stock

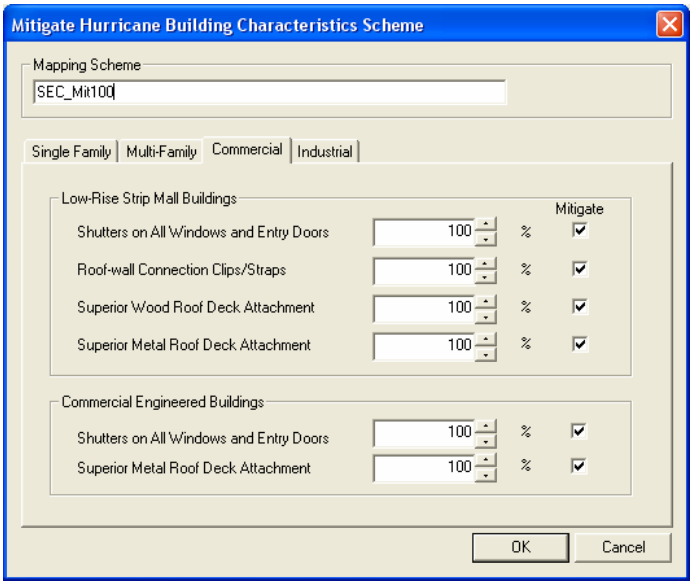
Select the Inventory | General Building Stock | Wind Building Characteristics Distribution menu option. This will open the dialog shown below:

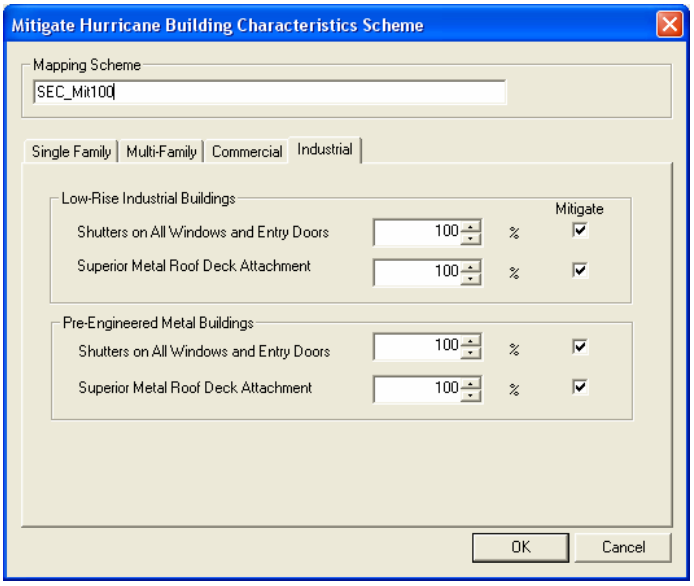


In the bottom half of the screen, select the "Southeast_Coastal" scheme and click on the Mitigate button.

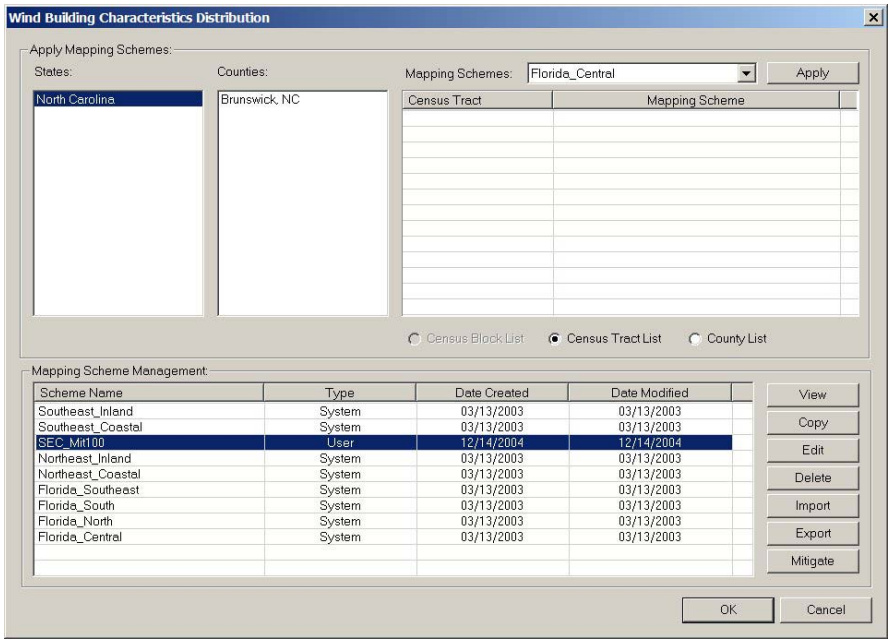



Mitigate Hurricane Building Characteristics Scheme
Mapping Scheme
SEC_Mit100
Single Family
Multi-Family
Commercial
Industrial
Multi Family Homes
Mitigate
Shutters on All Windows and Entry Doors
100
%
Roof-wall Connection Clips/Straps
100
%
Superior Wood Roof Deck Attachment
100
%
Secondary Water Resistance
100
%
Residential Engineered Buildings
Shutters on All Windows and Entry Doors
100
%
Superior Metal Roof Deck Attachment
100
%
OK
Cancel

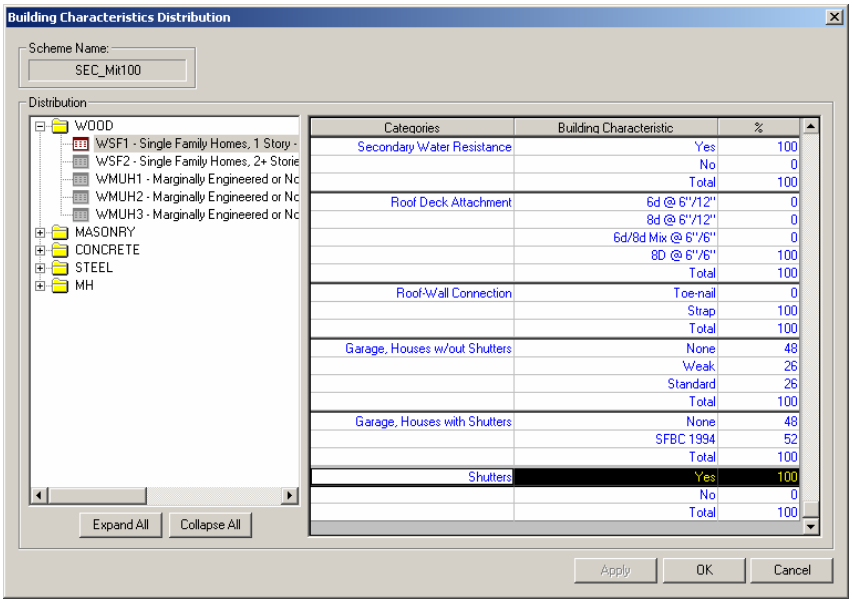

Mitigate Hurricane Building Characteristics Scheme
Mapping Scheme
SEC_Mit100
Single Family
Multi-Family
Commercial
Industrial
Low-Rise Strip Mall Buildings
Mitigate
Shutters on All Windows and Entry Doors
100
%
Roof-wall Connection Clips/Straps
100
%
Superior Wood Roof Deck Attachment
100
%
Superior Metal Roof Deck Attachment
100
%
Commercial Engineered Buildings
Shutters on All Windows and Entry Doors
100
%
Superior Metal Roof Deck Attachment
100
%
OK
Cancel



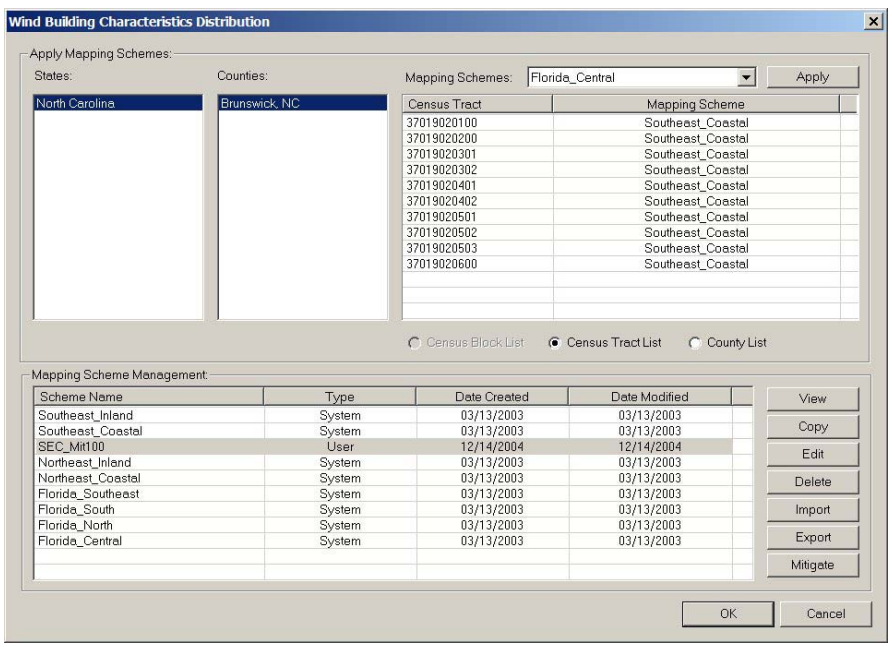
Name the new scheme "SEC_Mit100" and accept the defaults by clicking OK. This step will create a new wind building mapping scheme in which 100% of the buildings are mitigated to the full extent permitted for each occupancy.



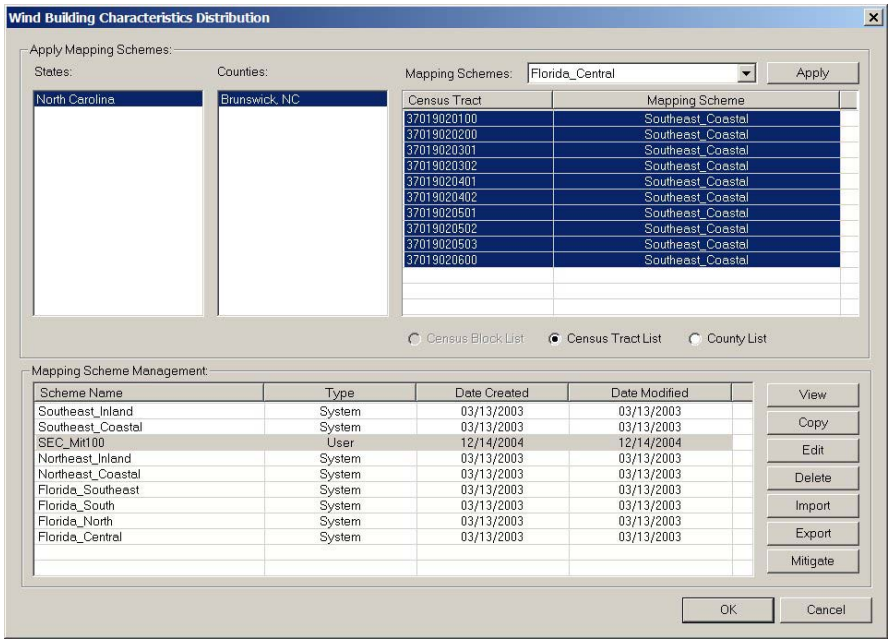
Upon returning to the wind building mapping dialog, click on the View button to view the newly created mapping scheme.



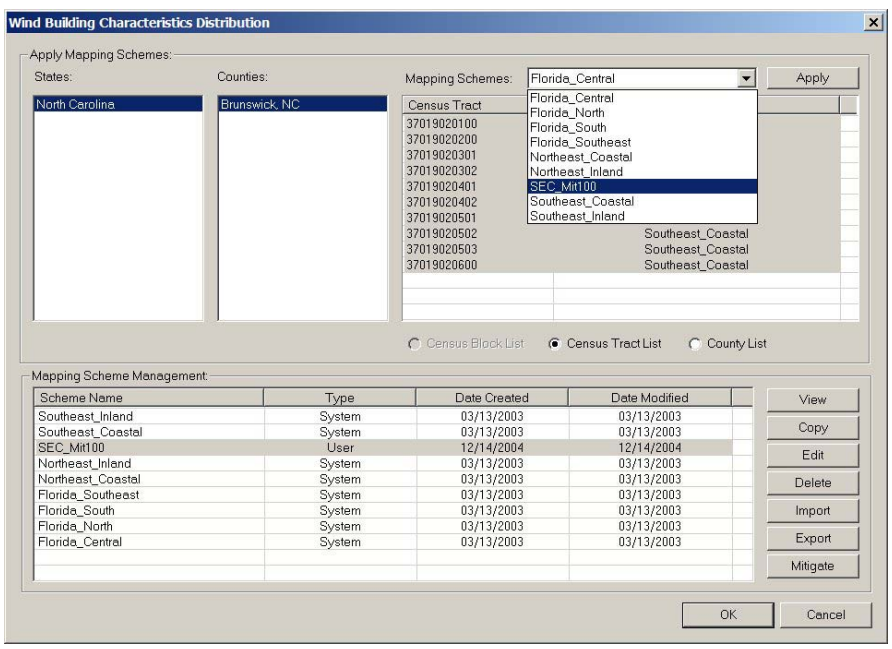
Open the WOOD folder and select WSF1. Scroll down on the right side of the screen. Note that 100% of the one-story wood frame houses in the new mapping scheme have shutters. Click OK to close the dialog.



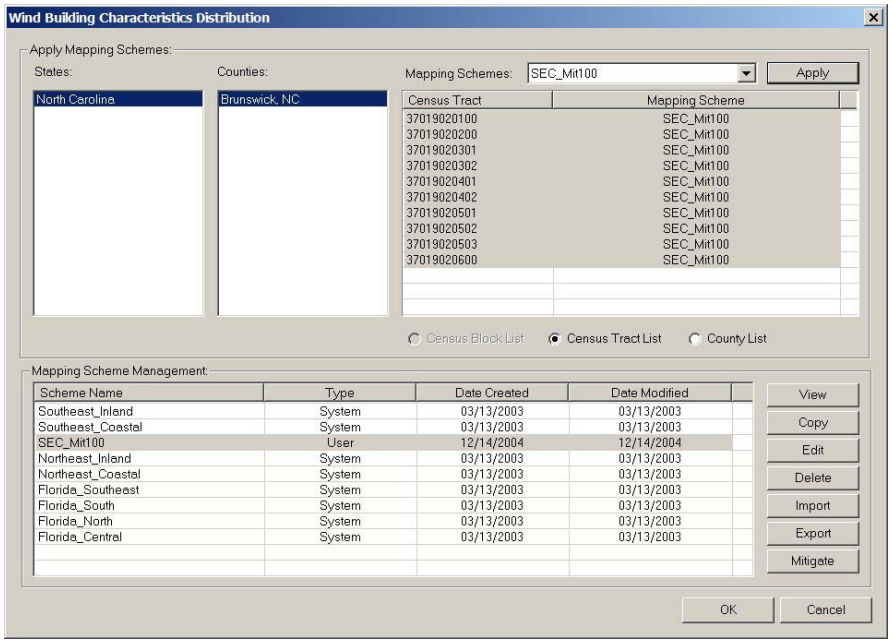
Next, we have to assign the new mapping scheme to the study region. Click on "Brunswick, NC" to display the list of census tracts as shown above. Note that each census tract has a default mapping scheme ("Southeast_Coastal") assigned to it.



Select all of the census tracts in the top-right list box by clicking on the first tract, holding down the Shift key, and then clicking on the last tract.



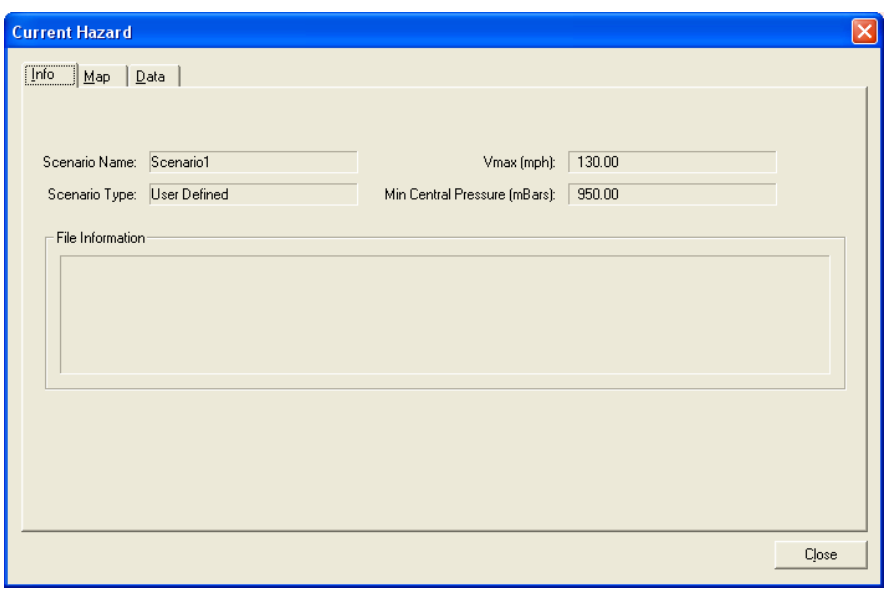
Open the drop-down list box and select the new mapping scheme: “SEC_Mit100”. Finally, click on the **Apply** button to update the list as shown below:



Click OK to accept the changes and close the dialog.

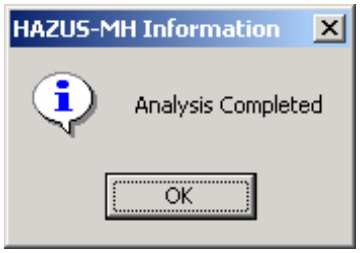
A.11.2 Run the Analysis

Select the Hazard | Show Current menu option and verify that Scenario1 is still active.



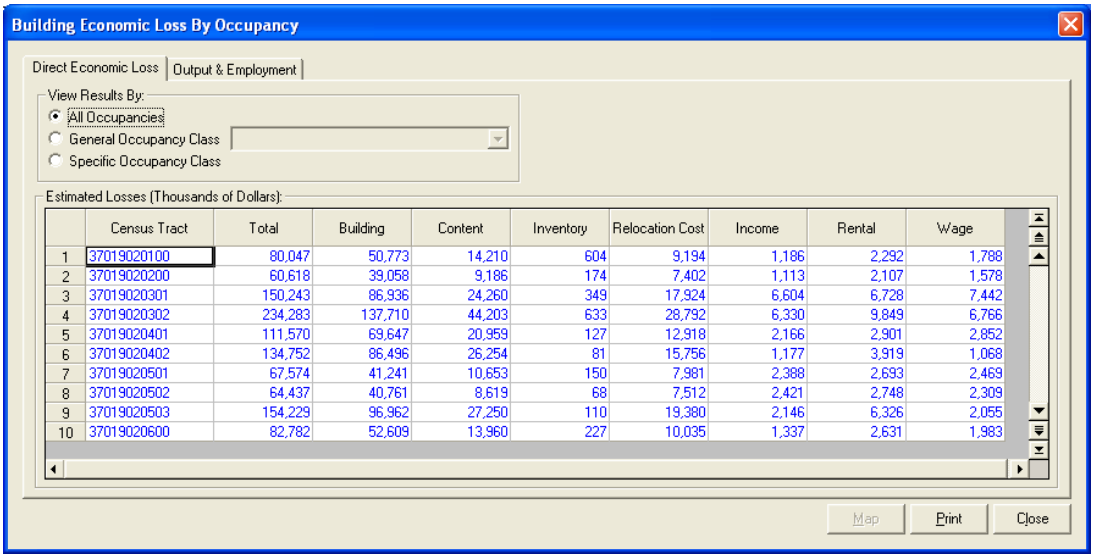
If a different scenario is active, then click on the Hazard | Scenario menu option. Follow the steps in the wizard to activate the proper scenario.

Next, click on the Analysis | Run menu option and follow the instruction in Section A.7 to run the analysis. When the analysis is completed, click on the OK button in the Information dialog and the Close button in the Run Analysis dialog.



A.11.3 Direct Economic Losses

Click on the Results | Building Economic Loss | By Occupancy menu option. This action will open the following dialog:

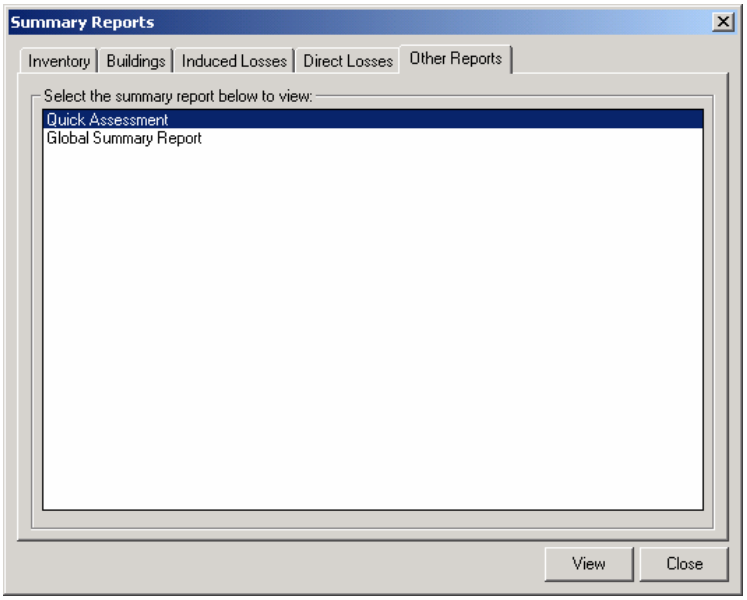


	Census Tract	Total	Building	Content	Inventory	Relocation Cost	Income	Rental	Wage
1	37019020100	80,047	50,773	14,210	604	9,194	1,186	2,292	1,788
2	37019020200	60,618	39,058	9,186	174	7,402	1,113	2,107	1,578
3	37019020301	150,243	86,936	24,260	349	17,924	6,604	6,728	7,442
4	37019020302	234,283	137,710	44,203	633	28,792	6,330	9,849	6,766
5	37019020401	111,570	69,647	20,959	127	12,918	2,166	2,901	2,852
6	37019020402	134,752	86,496	26,254	81	15,756	1,177	3,919	1,068
7	37019020501	67,574	41,241	10,653	150	7,981	2,388	2,693	2,469
8	37019020502	64,437	40,761	8,619	68	7,512	2,421	2,748	2,309
9	37019020503	154,229	96,962	27,250	110	19,380	2,146	6,326	2,055
10	37019020600	82,782	52,609	13,960	227	10,035	1,337	2,631	1,983

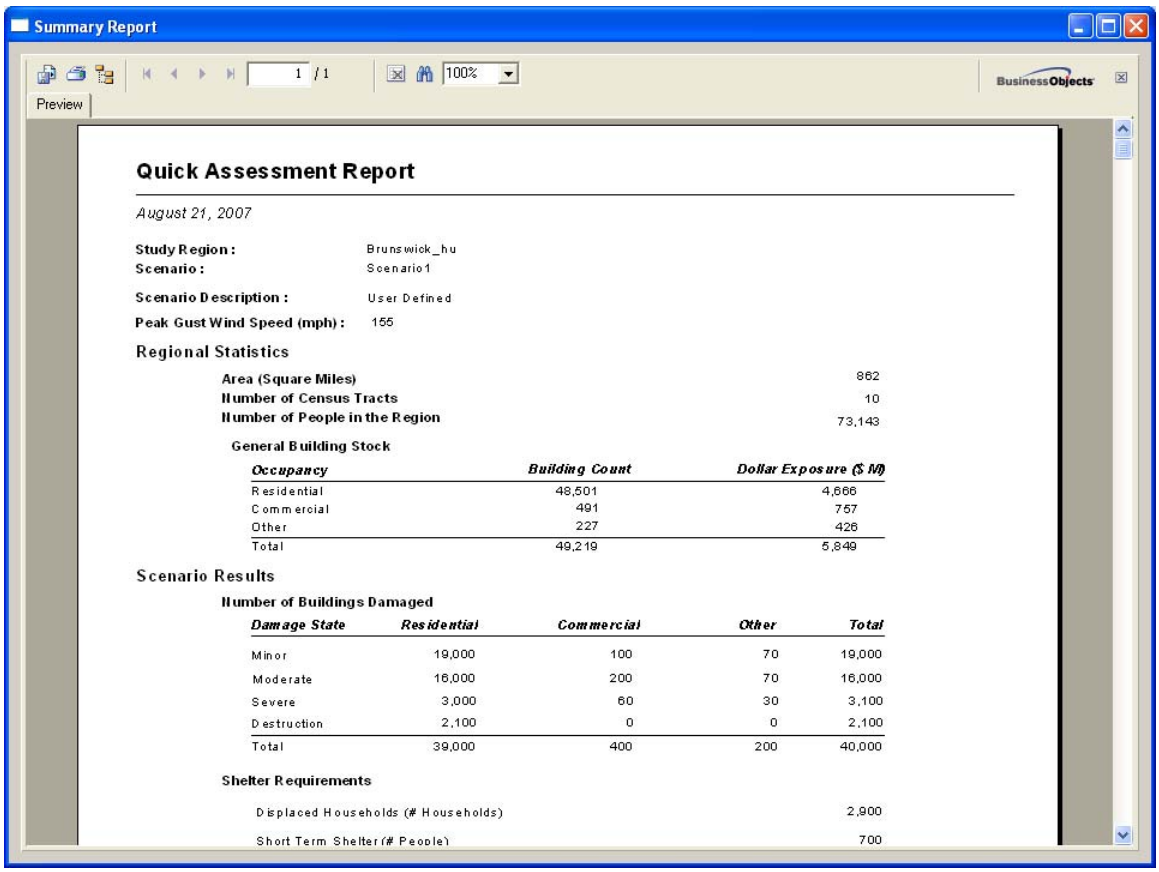
The total building losses for the mitigated study region are $1.14 billion compared to $4.61 billion for the default study region results shown in Section A.10.3. Thus, fully mitigating the building stock reduces the estimated total building losses for this scenario by 75%.

A.11.4 Summary Reports

Click on the Results | Summary Reports menu option. This action will open the following dialog:



Click on the View button to see the Quick Assessment report.



Note that the estimated number of destroyed buildings in the mitigated study region is 2,100 compared to 13,000 in the default study region (Section A.10.4), a reduction of 84%.

This concludes the mitigation test.

A.12 Conclusion

If you have successfully completed all of the steps in the preceding sections, the Hurricane Model has been installed correctly and is functioning as intended. You may now proceed with further use of the software.

Please be aware of the following known problems:

A.12.1 Multi-Hazard Study Regions

If you create a study region that includes both the Hurricane and Flood hazards (it does not matter if Earthquake is or is not included), the Hurricane model will work at the block level to be compatible with the Flood model. This significantly increases the time and memory requirements for the Hurricane model.

DO NOT attempt to run a multi-hazard study region until you have successfully completed the installation tests in this document. We also recommend that you try only two or three census tracts on your first Hurricane & Flood study region.

A.12.2 Large Study Regions

If you create a study region with more than 3000 Census Tracts (Census Blocks for Hurricane + Flood study regions) on a machine with 512 MB RAM, you may encounter errors that are caused by insufficient memory.

Appendix B. Building Classification System

The 39 Specific Building Types (SBTs) used in the Hurricane Model are listed and briefly described in Table B.1. Each identifier begins with W, M, C, S, or MH, representing the General Building Type (GBT) to which the SBT belongs. Fuller descriptions of each SBT are provided in Appendix C.

The Hurricane Model allows the user to distribute the building stock in each census tract to one or more of the 39 SBTs through the use of an SBT Mapping Scheme. The SBT Mapping Scheme determines, for example, the percentage of Wood Single Family Dwellings that are assigned to the WSF1 or WSF2 category based on the relative frequency of single vs. multi-story construction in a given geographic area. Default mapping schemes are provided for the states covered by the Hurricane Model, but these can be modified on a state, county, or census tract basis if the user has access to more accurate information in his or her geographic area of interest.

The key construction characteristics that control the performance of building under high wind loads are listed in Table B.2. These key construction characteristics are referred to as the Wind Building Characteristics (WBCs). Different subsets of the WBCs control the damage and loss estimates for each SBT. The significant WBCs for each SBT are shown as non-zero entries in Table B.3. As an example, consider the Wood-Frame, One-Story, Multi-Unit Housing (WMUH1) category. The fourth column of Table B.3 shows that there are five active WBCs for the WMUH1 category: roof shape, roof cover type, roof cover quality, roof deck attachment, and roof-wall connection.

Figure B.1 illustrates a subset of the 128 possible combinations of the WBCs for WMUH1 buildings.[1] Three predominant roof shapes are modeled: Hip, Gable, or Flat. For flat roofs, two roof coverings (Built-Up Roof or Single Ply Membrane) and three roof-covering conditions (New, Good, or Poor) are considered. For all roof shapes, two roof-sheathing fastener conditions (6-penny nails or 8-penny nails[2]) and two roof-wall connection conditions (Strapped or Toe-Nailed) are modeled. Similar analyses of the remaining 38 SBTs in Table B.3 produces a total of 4,818 distinct building classes in the Hurricane Model.

In an effort to reduce the amount of data collection and data entry required to characterize the building inventory, it is helpful to assume that the relative frequencies of the various

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[1] Due to space limitations, Figure B.1 does not include shutters, secondary water resistance, and two of the four roof deck attachment types. Each of these excluded items is effectively given 0% weight for the example shown in Figure B.1.

2 In order to qualify for the 8-penny (8d) roof deck attachment category, the maximum nail spacing must not exceed 6 inches along the edges of each sheathing panel or 12 inches in the field of each sheathing panel.

WBCs can be adequately modeled as independent. This assumption allows us to determine the relative frequencies of the 24 WMUH1 cases illustrated in Figure B.1 with only 11 input values. In the hypothetical example shown, 60% of the WMUH1 buildings in the geographic area of interest have flat roofs, 50% of the flat roofs are covered with single-ply membranes, 60% of the flat roof covers are in good condition, 50% of the roof decks are fastened with 8-penny nails, and 30% of the roof-wall connections are made with straps or clips. Multiplying these numbers together produces the percentages shown at the bottom of Figure B.1. For this illustration, the values have been rounded to the nearest 1%.

Mitigation Options

A significant feature of the Hurricane Model is its ability to model the benefits of mitigation for all building types. The mitigation options available in the Hurricane Model are: (1) strengthened roof-wall connections (i.e., straps or clips instead of simple toe-nailed connections), (2) upgraded roof sheathing attachments (i.e., fasteners that meet or exceed the nailing requirements of the 1994 South Florida Building Code), (3) pressure and impact resistant protection for all openings (e.g., shutters and doors meeting the Dade County or ASTM large missile and pressure cycling standards), and (4) secondary water resistance to prevent water penetration through the roof decking after the loss of the roof covering. The specific mitigation options available for each SBT are summarized in Table B.4.

By including these options in the Hurricane Model, the benefits of promoting mitigation can be easily quantified by varying the percentages of buildings that have these features in a given geographic area and comparing the resulting loss estimates. In many hurricane-prone areas, it can be shown with the Hurricane Model that loss reductions of 70% or more can be achieved through mitigation.

Table B.1. Specific Building Types in the Hurricane Model

Specific Building Type	Description
WSF1	Wood, Single Family, One Story
WSF2	Wood, Single Family, Two or More Stories
WMUH1	Wood, Multi-Unit Housing, One Story
WMUH2	Wood, Multi-Unit Housing, Two Stories
WMUH3	Wood, Multi-Unit Housing, Three or More Stories
MSF1	Masonry, Single Family, One Story
MSF2	Masonry, Single Family, Two or More Stories
MMUH1	Masonry, Multi-Unit Housing, One Story
MMUH2	Masonry, Multi-Unit Housing, Two Stories
MMUH3	Masonry, Multi-Unit Housing, Three or More Stories
MLRM1	Masonry, Low-Rise Strip Mall, Up to 15 Feet
MLRM2	Masonry, Low-Rise Strip Mall, More than 15 Feet
MLRI	Masonry, Low-Rise Industrial/Warehouse/Factory Buildings
MERBL	Masonry, Engineered Residential Building, Low-Rise (1-2 Stories)
MERBM	Masonry, Engineered Residential Building, Mid-Rise (3-5 Stories)
MERBH	Masonry, Engineered Residential Building, High-Rise (6+ Stories)
MECBL	Masonry, Engineered Commercial Building, Low-Rise (1-2 Stories)
MECBM	Masonry, Engineered Commercial Building, Mid-Rise (3-5 Stories)
MECBH	Masonry, Engineered Commercial Building, High-Rise (6+ Stories)
CERBL	Concrete, Engineered Residential Building, Low-Rise (1-2 Stories)
CERBM	Concrete, Engineered Residential Building, Mid-Rise (3-5 Stories)
CERBH	Concrete, Engineered Residential Building, High-Rise (6+ Stories)
CECBL	Concrete, Engineered Commercial Building, Low-Rise (1-2 Stories)
CECBM	Concrete, Engineered Commercial Building, Mid-Rise (3-5 Stories)
CECBH	Concrete, Engineered Commercial Building, High-Rise (6+ Stories)
SPMBS	Steel, Pre-Engineered Metal Building, Small
SPMBM	Steel, Pre-Engineered Metal Building, Medium
SPMBL	Steel, Pre-Engineered Metal Building, Large
SERBL	Steel, Engineered Residential Building, Low-Rise (1-2 Stories)
SERBM	Steel, Engineered Residential Building, Mid-Rise (3-5 Stories)
SERBH	Steel, Engineered Residential Building, High-Rise (6+ Stories)
SECBL	Steel, Engineered Commercial Building, Low-Rise (1-2 Stories)
SECBM	Steel, Engineered Commercial Building, Mid-Rise (3-5 Stories)
SECBH	Steel, Engineered Commercial Building, High-Rise (6+ Stories)
MHPHUD	Manufactured Home, Pre-HUD
MH76HUD	Manufactured Home, 1976 HUD
MH94HUD-I	Manufactured Home, 1994 HUD - Wind Zone I
MH94HUD-II	Manufactured Home, 1994 HUD - Wind Zone II
MH94HUD-III	Manufactured Home, 1994 HUD - Wind Zone III

Table B.2. Wind Building Characteristics

Characteristic	Value1	Value2	Value3	Value4
Roof Shape				
- Roof Shape I	Hip	Gable		
- Roof Shape II	Hip	Gable	Flat	
Roof Cover				
- Roof Cover Type	Built-Up	Single Ply		
- Roof Cover Quality	Good	Poor		
- Secondary Water Resistance	Yes	No		
Roof Deck				
- Roof Deck Attach. I	6d Nails @ 6/12	8d Nails @ 6/12		
- Roof Deck Attach. II	6d Nails @ 6/12	8d Nails @ 6/12	6d/8d Mix @ 6/6	8d @ 6/6
- Roof Deck Age	New or Average	Old		
Roof Frame				
- Roof Frame System	Wood Truss	Steel Joist		
- Joist Spacing	4 ft.	6 ft.		
- Roof-Wall Conn.	Toe-Nail	Strap		
Fenestrations				
- Window Area	Low	Medium	High	
- Shutters	Yes	No		
- Garage I (Unshuttered Houses)	None	Weak Door	Standard Door	
- Garage II (Shuttered Houses)	None	SFBC 94		
Other Characteristics				
- Wind Debris	Residential	Res./Comm. Mix	Varies by Direction	No Missiles
- Units Per Floor	Single-Unit	Multi-Unit		
- Masonry Reinforcing	Yes (RM)	No (URM)		
- Tie Downs	Yes	No		

Table B.3. Active Wind Building Characteristics for each Specific Building Type

Wind Building Characteristic	Wood							Masonry															Concrete						Steel									MH				
	WSF1	WSF2	WSF1 (H)	WSF2 (H)	WMUH1	WMUH2	WMUH3	MSF1	MSF2	MSF1 (H)	MSF2 (H)	MMUH1	MMUH2	MMUH3	MLRM1	MLRM2	MLRI	MERBL	MERBM	MERBH	MECBL	MECBM	MECBH	CERBL	CERBM	CERBH	CECBL	CECBM	CECBH	SPMBS	SPMBM	SPMBL	SERBL	SERBM	SERBH	SECBL	SECBM	SECBH	MHPHUD	MH76HUD	MH94HUD-I	MH94HUD-II	MH94HUD-III
Roof Shape																																										
- Roof Shape I	2	2	2	2				2	2	2	2																															
- Roof Shape II					3*	3*	3*					3*	3*	3*																												
Roof Cover																																										
- Roof Cover Type (H)			2*	2*						2*	2*																															
- Roof Cover Type					2^	2^	2^					2^	2^	2^	2	2		2	2	2	2	2	2	2	2	2	2	2	2				2	2	2	2	2	2					
- Roof Cover Quality					2^	2^	2^					2^	2^	2^																												
- Secondary Water Resistance	2	2	2^	2^	2`	2`	2`	2	2	2^	2^	2`	2`	2`	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Roof Deck																																										
- Roof Deck Attach. I					2	2	2					2	2	2	2#	2#																										
- Roof Deck Attach. II	4	4			4	4	4	4	4			4	4	4	4#	4#	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
- Roof Deck Attach. III (Metal)															2`	2`	2`	2	2	2	2	2	2							2`	2`	2`	2	2	2	2	2	2					
- Roof Deck Attach. (H)			2*	2*						2*	2*																															
- Roof Deck Age															2^	2^	2													2	2	2											
Roof Frame																																										
- Roof Frame System															2*	2*																										
- Joist Spacing																2~																										
- Truss Spacing (H)			2~																																							
- Roof-Wall Conn.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2#	2#																										
Fenestrations																																										
- Window Area																		3	3	3	3	3	3	3	3	3	3	3	3				3	3	3	3	3	3					
- Shutters	2*	2*	2	2	2	2	2	2*	2*	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
- Garage I (Unshuttered Houses)	3^	3^						3^	3^																																	
- Garage II (Shuttered Houses)	2#	2#						2#	2#																																	
Other Characteristics																																										
- Wind Debris															4	4		4	4	4	4	4	4	4	4	4	4	4	4				4	4	4	4	4	4					
- Units Per Floor																2^																										
- Masonry Reinforcing								2	2			2	2	2	2	2	2																									
- Tie Downs																																							2	2	2	2	2
- Wall Construction (H)			2																																							
- Uplift Restraint (H)			2																																							
Combinations in HAZUS	160	160	200	40	128	128	128	320	320	40	40	256	256	256	352	544	12	96	96	96	96	96	96	48	48	48	48	48	48	6	6	6	96	96	96	96	96	96	4	4	4	4	4
																																							Total				4818

* branching characteristic

^ conditional characteristic (active if Shutters Not Installed OR if Roof Shape is Flat OR if Roof Frame System is Steel Joist OR if roof deck is superior and roof cover is shingle)

conditional characteristic (active if Shutters Installed or if Roof Frame System is Wood Truss)

~ conditional characteristic (active if Roof Frame System is Steel Joist and Number of Units is Multi-Unit OR if single wall and no uplift restraint)

` conditional characteristic (active if Roof Shape is Gable or Hip OR if Roof Deck is Metal and Roof Deck Age is New or Average)

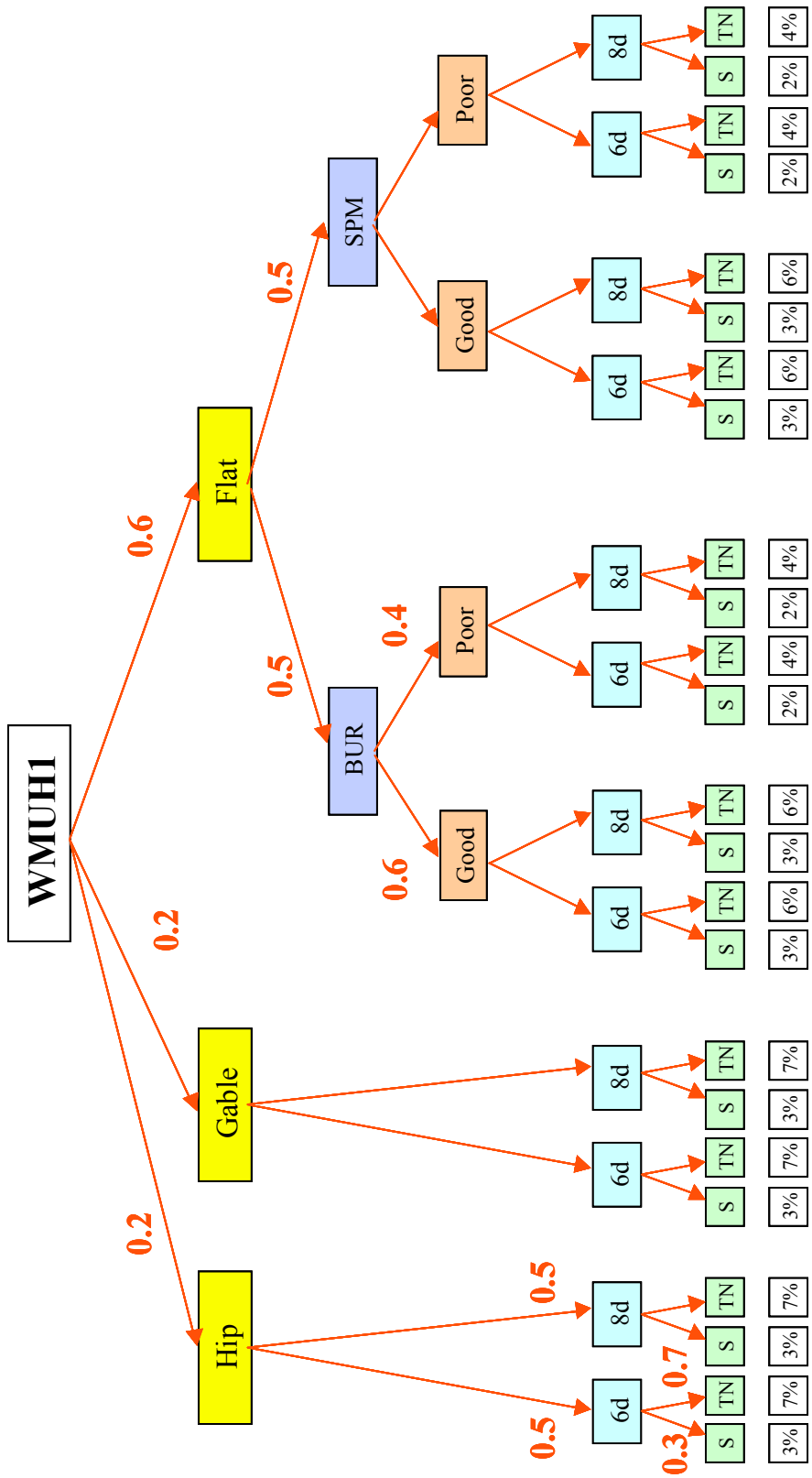


Figure B.1. Sample Distribution of WMUH1 Wind Building Characteristics.

Table B.4. Mitigation Options

Hurricane Specific Building Types				Shutters on All Windows and Entry Doors	Roof-wall Connection Clips/Straps	Superior Roof Deck Attachment	SWR	MH Tie Downs
Single Family	Wood	WSF1		√	√	√	√	
		WSF2		√	√	√	√	
	Masonry	MSF1		√	√	√	√	
		MSF2		√	√	√	√	
Multi-Unit Housing	Wood	WMUH1	Hip/Gable	√	√	√	√	
			Flat Roof	√	√	√		
		WMUH2	Hip/Gable	√	√	√	√	
			Flat Roof	√	√	√		
		WMUH3	Hip/Gable	√	√	√	√	
			Flat Roof	√	√	√		
	Masonry	MMUH1	Hip/Gable	√	√	√	√	
			Flat Roof	√	√	√		
		MMUH2	Hip/Gable	√	√	√	√	
			Flat Roof	√	√	√		
		MMUH3	Hip/Gable	√	√	√	√	
			Flat Roof	√	√	√		
Industrial Building	Masonry	MLRI		√		√		
Low-Rise Strip Mall	Masonry	MLRM1	Wood Truss	√	√	√		
			OWSJ	√		√		
		MLRM2	Wood Truss	√	√	√		
			OWSJ	√		√		
Engineered Buildings	Masonry	MERBL		√		√		
		MERBM		√		√		
		MERBH		√		√		
		MECBL		√		√		
		MECBM		√		√		
		MECBH		√		√		
	Concrete	CERBL		√		√		
		CERBM		√		√		
		CERBH		√		√		
		CECBL		√		√		
		CECBM		√		√		
		CECBH		√		√		
	Steel	SERBL		√		√		
		SERBM		√		√		
		SERBH		√		√		
		SECBH		√		√		
		SECBL		√		√		
		SECBM		√		√		
Pre-Engineered Metal Buildings	Steel	SPMBS		√		√		
		SPMBM		√		√		
		SPMBL		√		√		
Manufactured Homes		MHPHUD		√				√
		MH76HUD		√				√
		MH94HUDI		√				√
		MH94HUDII		√				√
		MH94HUDIII		√				√

Appendix C. Descriptions of Model Building Types

C.1 Wood, Single Family, One Story (WSF1)

The WSF1 model building is a wood-framed, single-story, single-family house. See Section 6.4 of the *Technical Manual* for a detailed description of the building geometry and the component resistance values.

C.2 Wood, Single Family, Two or More Stories (WSF2)

The WSF2 model building is a wood-framed, two-story, single-family house. See Section 6.4 of the *Technical Manual* for a detailed description of the building geometry and the component resistance values.

C.3 Wood, Multi-Unit Housing, One Story (WMUH1)

The WMUH1 model building is a wood-framed, single-story, marginally engineered or non-engineered, multi-family dwelling or hotel/motel. See Section 6.9 of the *Technical Manual* for a detailed description of the building geometry and the component resistance values.

C.4 Wood, Multi-Unit Housing, Two Stories (WMUH2)

The WMUH2 model building is a wood-framed, two-story, marginally engineered or non-engineered, multi-family dwelling or hotel/motel. See Section 6.9 of the *Technical Manual* for a detailed description of the building geometry and the component resistance values.

C.5 Wood, Multi-Unit Housing, Three or More Stories (WMUH3)

The WMUH3 model building is a wood-framed, three-story, marginally engineered or non-engineered, multi-family dwelling or hotel/motel. See Section 6.9 of the *Technical Manual* for a detailed description of the building geometry and the component resistance values.

C.6 Masonry, Single Family, One Story (MSF1)

The MSF1 model building is a masonry wall, single-story, single-family house. The masonry walls can be either reinforced or unreinforced. See Section 6.4 of the *Technical Manual* for a detailed description of the building geometry and the component resistance values.

C.7 Masonry, Single Family, Two or More Stories (MSF2)

The MSF2 model building is a masonry wall, two-story, single-family house. The masonry walls can be either reinforced or unreinforced. See Section 6.4 of the *Technical*

Manual for a detailed description of the building geometry and the component resistance values.

C.8 Masonry, Multi-Unit Housing, One Story (MMUH1)

The MMUH1 model building is a masonry wall, single-story, marginally engineered or non-engineered, multi-family dwelling or hotel/motel. The masonry walls can be either reinforced or unreinforced. See Section 6.9 of the *Technical Manual* for a detailed description of the building geometry and the component resistance values.

C.9 Masonry, Multi-Unit Housing, Two Stories (MMUH2)

The MMUH2 model building is a masonry wall, single-story, marginally engineered or non-engineered, multi-family dwelling or hotel/motel. The masonry walls can be either reinforced or unreinforced. See Section 6.9 of the *Technical Manual* for a detailed description of the building geometry and the component resistance values.

C.10 Masonry, Multi-Unit Housing, Three or More Stories (MMUH3)

The MMUH3 model building is a masonry wall, single-story, marginally engineered or non-engineered, multi-family dwelling or hotel/motel. The masonry walls can be either reinforced or unreinforced. See Section 6.9 of the *Technical Manual* for a detailed description of the building geometry and the component resistance values.

C.11 Masonry, Low-Rise Strip Mall, Up to 15 Feet (MLRM1)

The MLRM1 model building is a masonry wall, low-rise strip mall building, up to 15 feet in height. The masonry walls can be either reinforced or unreinforced. See Section 6.10 of the *Technical Manual* for a detailed description of the building geometry and the component resistance values.

C.12 Masonry, Low-Rise Strip Mall, More than 15 Feet (MLRM2)

The MLRM2 model building is a masonry wall, low-rise strip mall building, more than 15 feet in height. The masonry walls can be either reinforced or unreinforced. See Section 6.10 of the *Technical Manual* for a detailed description of the building geometry and the component resistance values.

C.13 Masonry, Low-Rise Industrial/Warehouse/Factory Buildings (MLRI)

The MLRI model building is a 240,000 square foot, masonry wall, industrial building or warehouse. The masonry walls can be either reinforced or unreinforced. See Section 6.13 of the *Technical Manual* for a detailed description of the building geometry and the component resistance values.

C.14 Masonry, Engineered Residential Building, Low-Rise (MERBL)

The MERBL model building is a two-story, engineered, reinforced masonry wall, residential building with a compartmented floor plan. See Section 6.12 of the *Technical Manual* for a detailed description of the building geometry and the component resistance values.

C.15 Masonry, Engineered Residential Building, Mid-Rise (MERBM)

The MERBM model building is a five-story, engineered, reinforced masonry wall, residential building with a compartmented floor plan. See Section 6.12 of the *Technical Manual* for a detailed description of the building geometry and the component resistance values.

C.16 Masonry, Engineered Residential Building, High-Rise (MERBH)

The MERBH model building is an eight-story, engineered, reinforced masonry wall, residential building with a compartmented floor plan. See Section 6.12 of the *Technical Manual* for a detailed description of the building geometry and the component resistance values.

C.17 Masonry, Engineered Commercial Building, Low-Rise (MECBL)

The MERBL model building is a two-story, engineered, reinforced masonry wall, commercial building with an open floor plan. See Section 6.12 of the *Technical Manual* for a detailed description of the building geometry and the component resistance values.

C.18 Masonry, Engineered Commercial Building, Mid-Rise (MECBM)

The MERBL model building is a five-story, engineered, reinforced masonry wall, commercial building with an open floor plan. See Section 6.12 of the *Technical Manual* for a detailed description of the building geometry and the component resistance values.

C.19 Masonry, Engineered Commercial Building, High-Rise (MECBH)

The MERBL model building is an eight-story, engineered, reinforced masonry wall, commercial building with an open floor plan. See Section 6.12 of the *Technical Manual* for a detailed description of the building geometry and the component resistance values.

C.20 Concrete, Engineered Residential Building, Low-Rise (CERBL)

The CERBL model building is a two-story, engineered, reinforced concrete, residential building with a compartmented floor plan. See Section 6.12 of the *Technical Manual* for a detailed description of the building geometry and the component resistance values.

C.21 Concrete, Engineered Residential Building, Mid-Rise (CERBM)

The CERBM model building is a five-story, engineered, reinforced concrete, residential building with a compartmented floor plan. See Section 6.12 of the *Technical Manual* for a detailed description of the building geometry and the component resistance values.

C.22 Concrete, Engineered Residential Building, High-Rise (CERBH)

The CERBH model building is an eight-story, engineered, reinforced concrete, residential building with a compartmented floor plan. See Section 6.12 of the *Technical Manual* for a detailed description of the building geometry and the component resistance values.

C.23 Concrete, Engineered Commercial Building, Low-Rise (CECBL)

The CERBL model building is a two-story, engineered, reinforced concrete, commercial building with an open floor plan. See Section 6.12 of the *Technical Manual* for a detailed description of the building geometry and the component resistance values.

C.24 Concrete, Engineered Commercial Building, Mid-Rise (CECBM)

The CERBL model building is a five-story, engineered, reinforced concrete, commercial building with an open floor plan. See Section 6.12 of the *Technical Manual* for a detailed description of the building geometry and the component resistance values.

C.25 Concrete, Engineered Commercial Building, High-Rise (CECBH)

The CERBL model building is an eight-story, engineered, reinforced concrete, commercial building with an open floor plan. See Section 6.12 of the *Technical Manual* for a detailed description of the building geometry and the component resistance values.

C.26 Steel, Pre-Engineered Metal Building, Small (SPMBS)

The SPMBS model building is a 4,000 square foot, pre-engineered, steel frame, metal clad building. See Section 6.11 of the *Technical Manual* for a detailed description of the building geometry and the component resistance values.

C.27 Steel, Pre-Engineered Metal Building, Medium (SPMBM)

The SPMBS model building is a 50,000 square foot, pre-engineered, steel frame, metal clad building. See Section 6.11 of the *Technical Manual* for a detailed description of the building geometry and the component resistance values.

C.28 Steel, Pre-Engineered Metal Building, Large (SPMBL)

The SPMBS model building is a 500,000 square foot, pre-engineered, steel frame, metal clad building. See Section 6.11 of the *Technical Manual* for a detailed description of the building geometry and the component resistance values.

C.29 Steel, Engineered Residential Building, Low-Rise (SERBL)

The SERBL model building is a two-story, engineered, steel frame, residential building with a compartmented floor plan. See Section 6.12 of the *Technical Manual* for a detailed description of the building geometry and the component resistance values.

C.30 Steel, Engineered Residential Building, Mid-Rise (SERBM)

The SERBM model building is a five-story, engineered, steel frame, residential building with a compartmented floor plan. See Section 6.12 of the *Technical Manual* for a detailed description of the building geometry and the component resistance values.

C.31 Steel, Engineered Residential Building, High-Rise (SERBH)

The SERBH model building is an eight-story, engineered, steel frame, residential building with a compartmented floor plan. See Section 6.12 of the *Technical Manual* for a detailed description of the building geometry and the component resistance values.

C.32 Steel, Engineered Commercial Building, Low-Rise (SECBL)

The SERBL model building is a two-story, engineered, steel frame, commercial building with an open floor plan. See Section 6.12 of the *Technical Manual* for a detailed description of the building geometry and the component resistance values.

C.33 Steel, Engineered Commercial Building, Mid-Rise (SECBM)

The SERBM model building is a five-story, engineered, steel frame, commercial building with an open floor plan. See Section 6.12 of the *Technical Manual* for a detailed description of the building geometry and the component resistance values.

C.34 Steel, Engineered Commercial Building, High-Rise (SECBH)

The SERBH model building is an eight-story, engineered, steel frame, commercial building with an open floor plan. See Section 6.12 of the *Technical Manual* for a detailed description of the building geometry and the component resistance values.

C.35 Manufactured Home, Pre-HUD (MHPHUD)

The MHPHUD model building is a manufactured home built prior to the 1976 HUD standard. The home can be either tied-down or unrestrained. See Section 6.5 of the *Technical Manual* for a detailed description of the building geometry and the component resistance values.

C.36 Manufactured Home, 1976 HUD (MH76HUD)

The MHPHUD model building is a manufactured home built to the 1976 HUD standard. The home can be either tied-down or unrestrained. See Section 6.5 of the *Technical*

Manual for a detailed description of the building geometry and the component resistance values.

C.37 Manufactured Home, 1994 HUD Region I (MH94HUD-I)

The MHPHUD model building is a manufactured home built to the 1994 HUD standard for Wind Zone I. The home can be either tied-down or unrestrained. See Section 6.5 of the *Technical Manual* for a detailed description of the building geometry and the component resistance values.

C.38 Manufactured Home, 1994 HUD Region II (MH94HUD-II)

The MHPHUD model building is a manufactured home built to the 1994 HUD standard for Wind Zone II. The home can be either tied-down or unrestrained. See Section 6.5 of the *Technical Manual* for a detailed description of the building geometry and the component resistance values.

C.39 Manufactured Home, 1994 HUD Region III (MH94HUD-III)

The MHPHUD model building is a manufactured home built to the 1994 HUD standard for Wind Zone III. The home can be either tied-down or unrestrained. See Section 6.5 of the *Technical Manual* for a detailed description of the building geometry and the component resistance values.

Appendix D. ALOHA \ MARPLOT Integration with HAZUS-MH

D.1 Introduction

D.1.1 Purpose

The goal of the document is to show how Aloha/Marplot can be run from within HAZUS-MH and the results could be overlaid onto HAZUS-MH inventory and results.

D.1.2 Scope

This document describes how Aloha/Marplot could be launched from HAZUS-MH and the results from Aloha/Marplot could be brought into HAZUS-MH for overlay analysis. This document doesn't explain how to run Aloha / Marplot.

D.2 Prerequisites

HAZUS-MH doesn't install Aloha/Marplot as part of its installation. Before Aloha/Marplot could be used from HAZUS-MH, the user needs to install Aloha and Marplot. Once Aloha and Marplot are installed HAZUS-MH automatically detects the application and launches it.

D.3 Running Aloha and Marplot from within HAZUS-MH

1. Start ***HAZUS-MH***, aggregate the appropriate region as per the requirement at county, block or at tract level.

2. Open the Region, from the menu; select the **Analysis |3rd party Models| ALOHA| Run.**

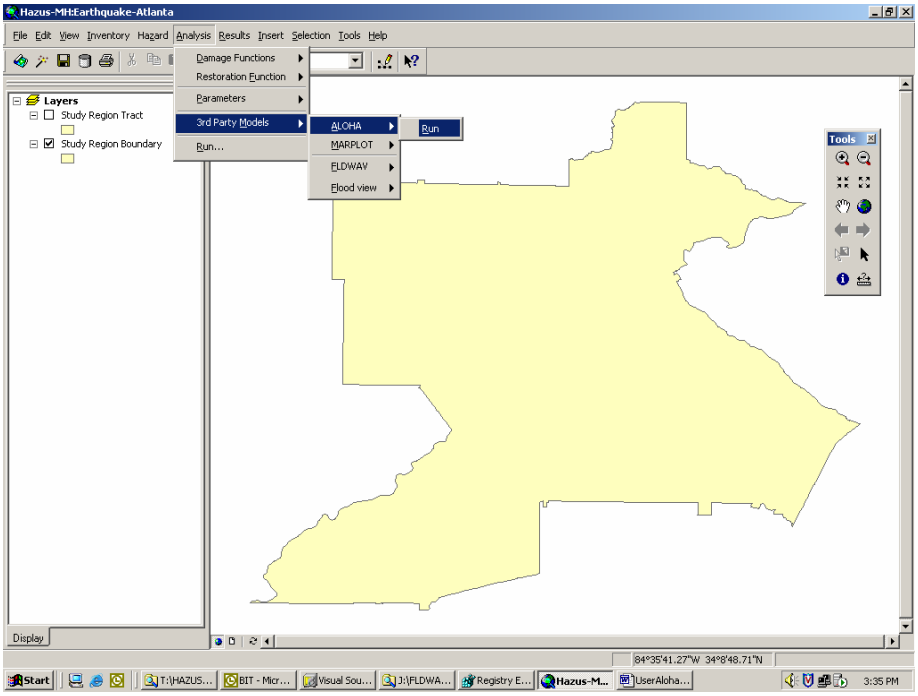


Figure D.1.

3. ***HAZUS-MH*** will check whether the ***ALOHA*** program is installed or not. If you have installed then click yes. If not Click NO. Install ALOHA.

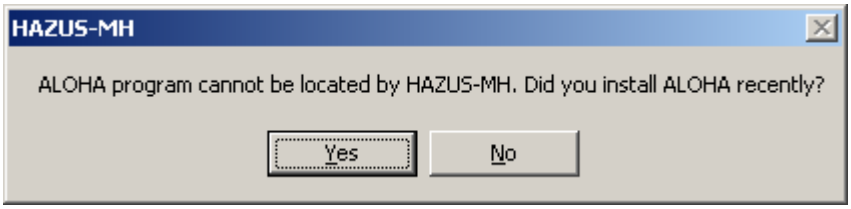


Figure D.2.

When you click yes HAZUS-MH will search the ALOHA program and launch ALOHA as shown

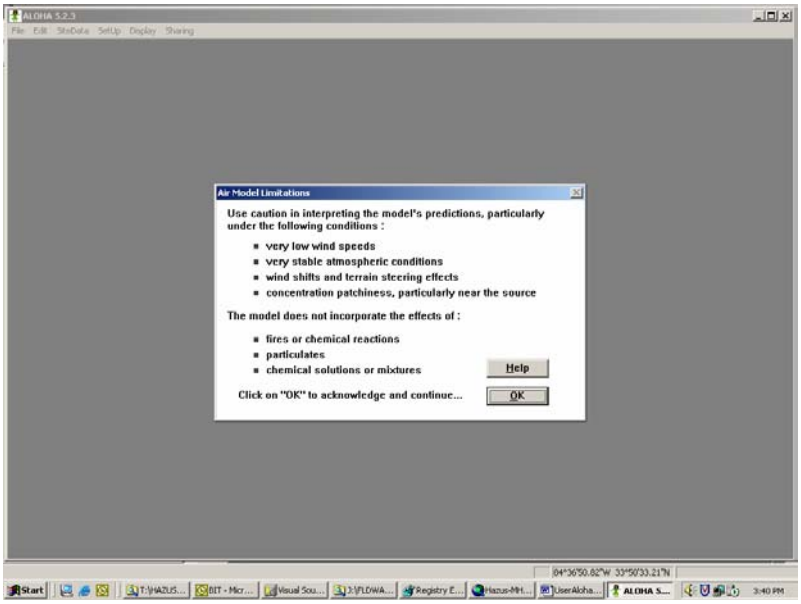


Figure D.3.

4. Use Aloha for the Region you want (It should be a location within the study region which you have aggregated). Generate Foot Print files.

5. Once you have generated ALOHA outputs close Aloha application and select the **Analysis |3rd party Models| MARPLOT| Run**

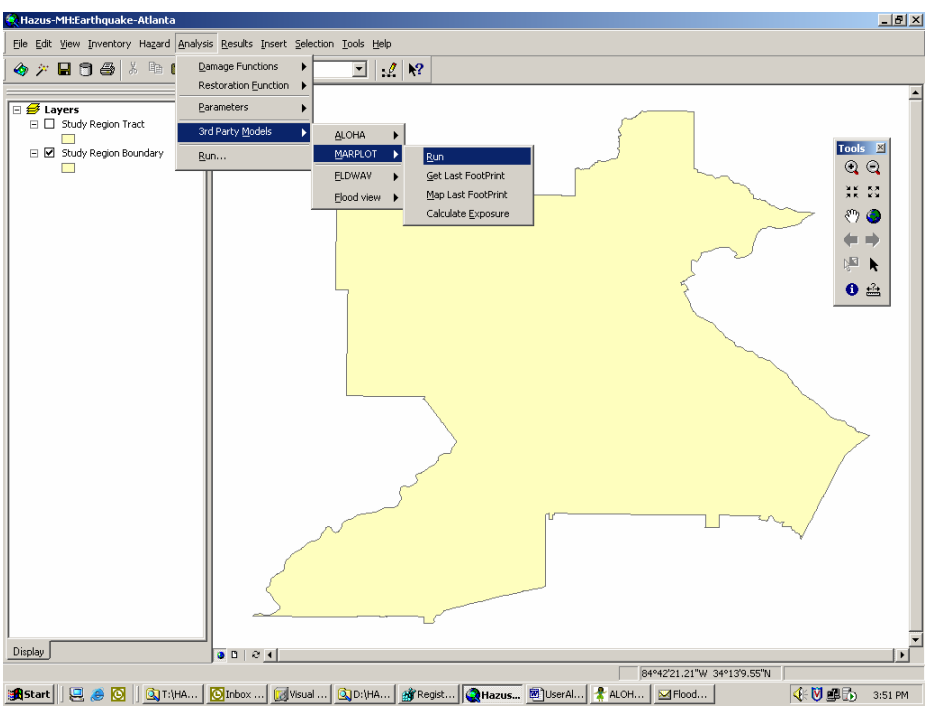


Figure D.4.

6. ***HAZUS-MH*** will check whether the ***MARPLOT*** program is installed or not. If you have installed then click yes. If not Click NO. Install ***MARPLOT*** and Come Back.

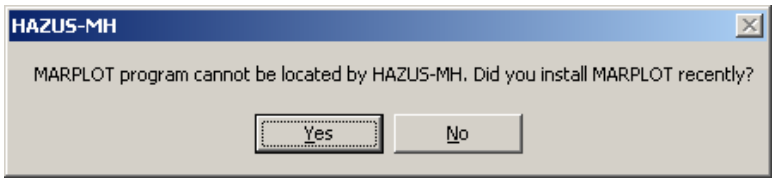


Figure D.5.

When you click yes ***HAZUS-MH*** will search the MARPLOT program and launch MARPLOT as shown in Figure L.6 below.

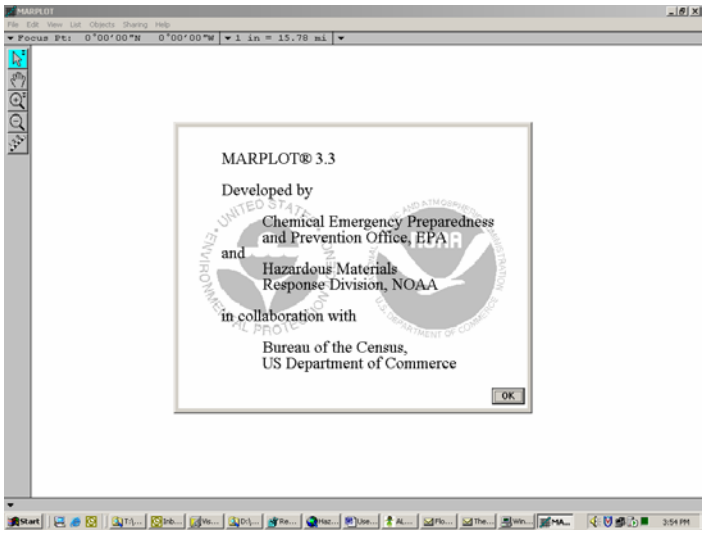


Figure D.6.

7. Use Marplot and Import the Aloha Footprints in Marplot MAP at a location within your study region. Then select both the Polygons on Marplot map.

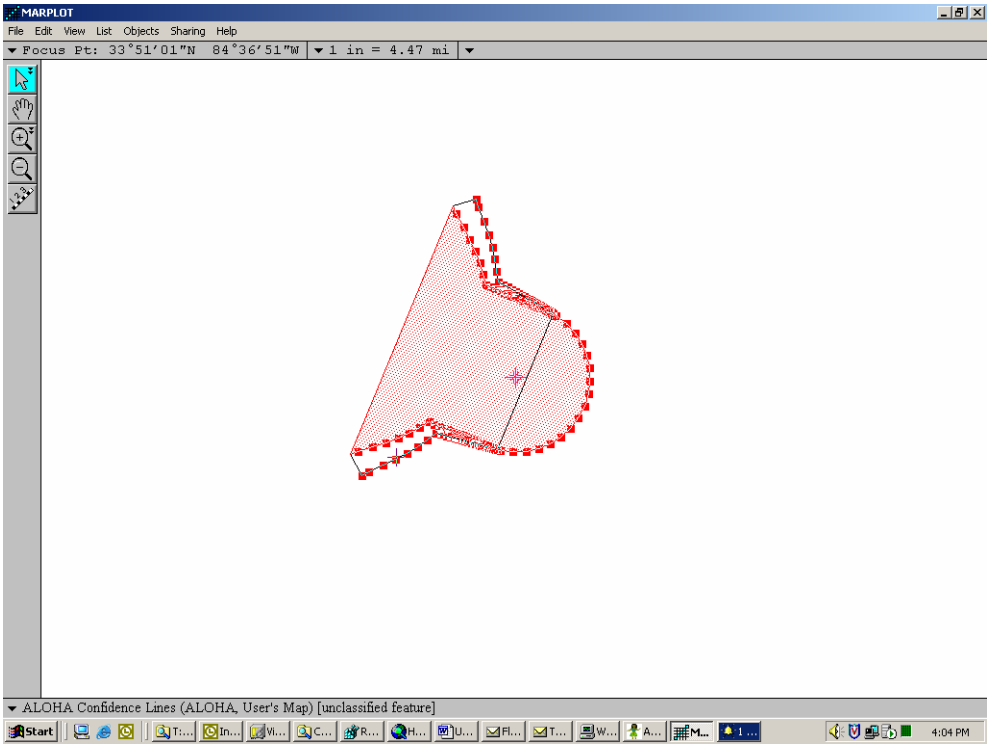


Figure D.7.

8. Now Export to Marplot output using File-Export menu of Marplot as shown in Figure L.8.

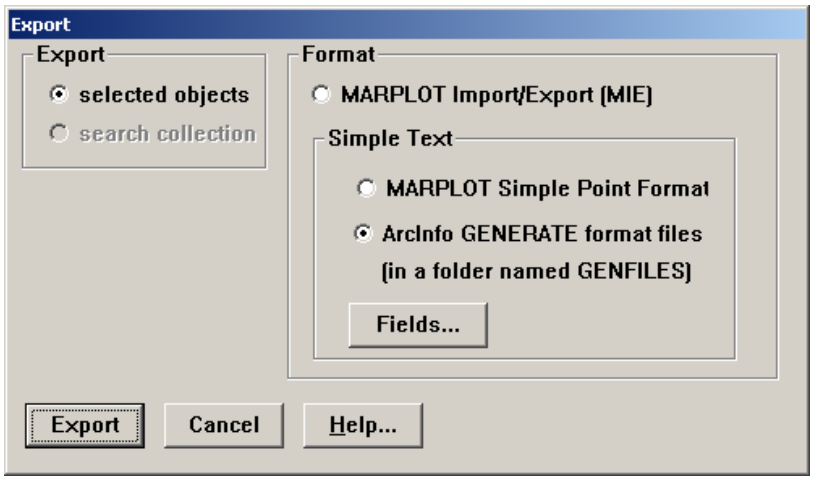


Figure D.8.

9. Come Back to *HAZUS-MH*. Select the Analysis |3rd party Models| MARPLOT| Get Last FootPrint.

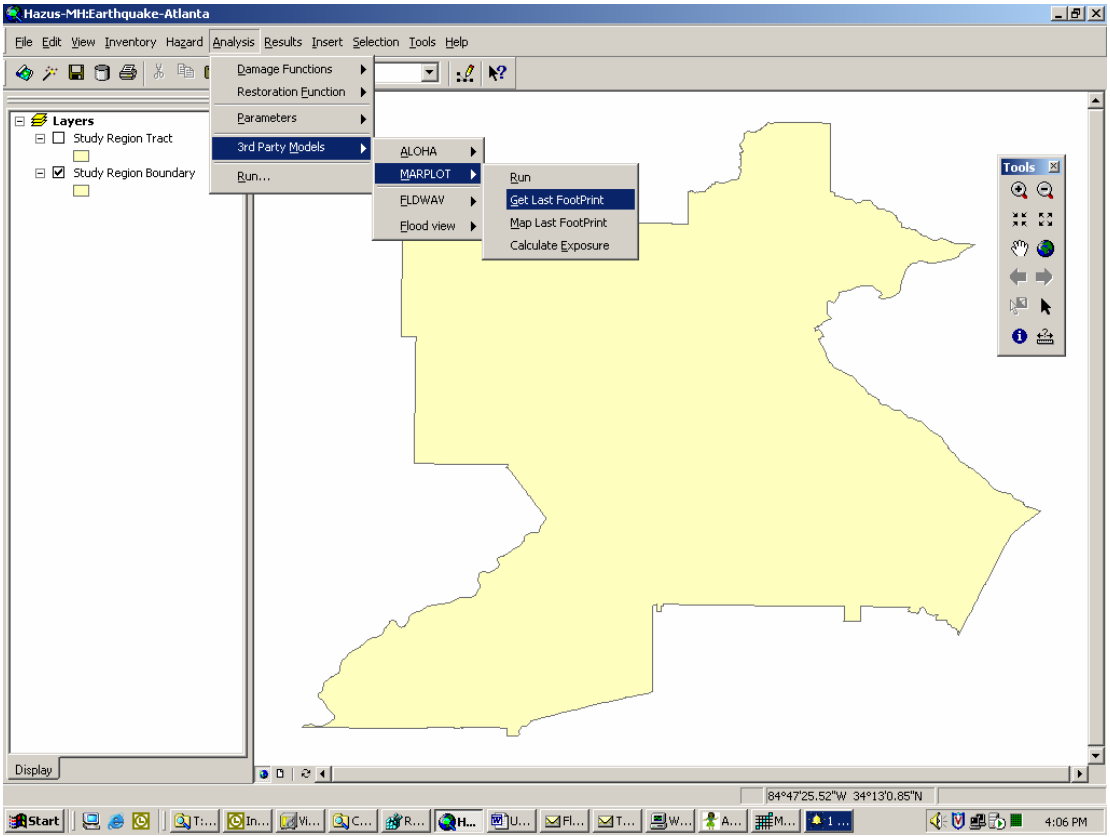


Figure D.9.

This will bring the Marplot output in to your stuffy Region. If successful, ***HAZUS-MH*** will give message

Figure D.10.

10. To see footprint map, select the Analysis |3rd party Models| MARPLOT| Map Last FootPrint

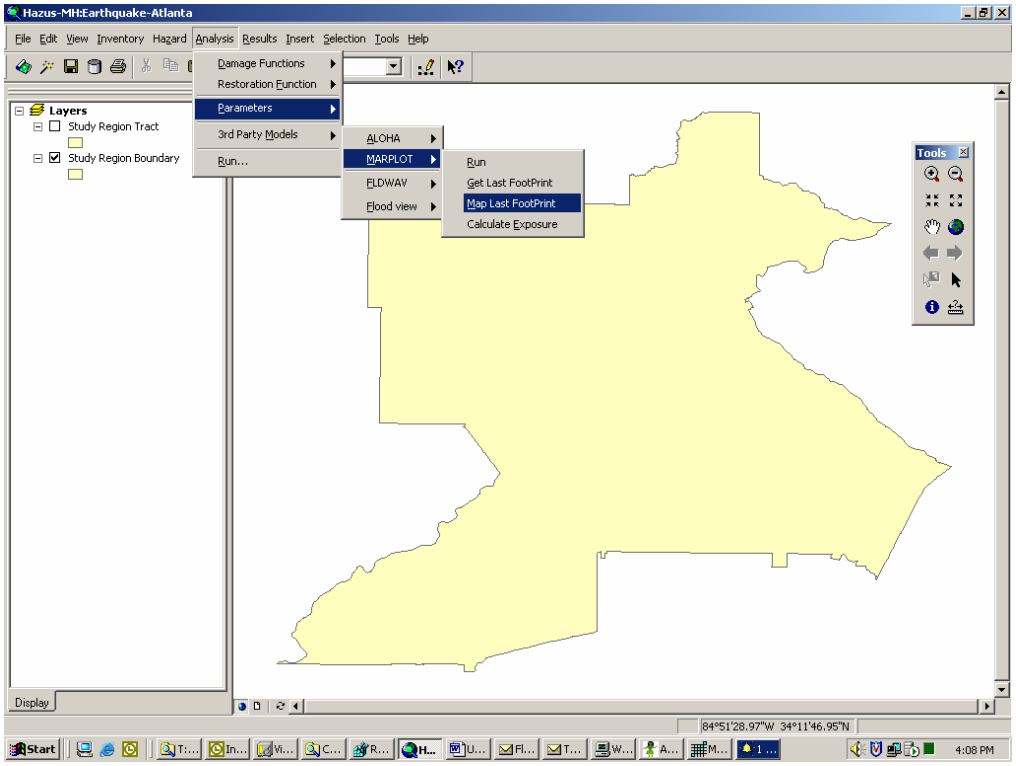


Figure D.11.

11. ***HAZUS-MH*** will add the Marplot Layer as shown in Figure D.12.

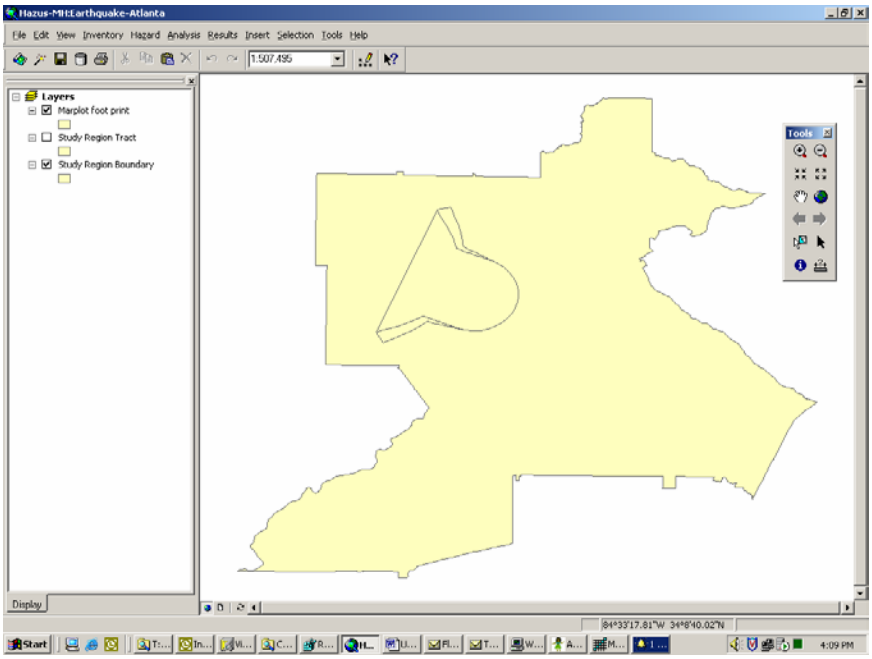


Figure D.12.

12. To calculate Exposure under Marplot area select **Analysis |3rd party Models| MARPLOT| Calculate Exposure**

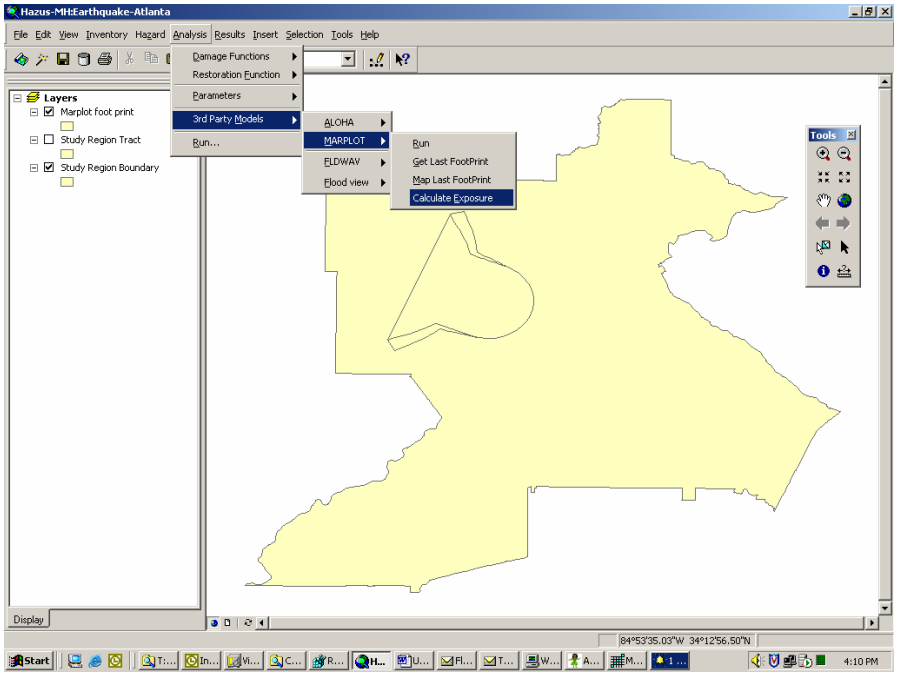


Figure D.13.

13. ***HAZUS-MH*** will calculate the exposure for ALOHA/MARPLOT and prompt with completion message

Figure D.14.

14. To view results select **Results |3rd party Models**

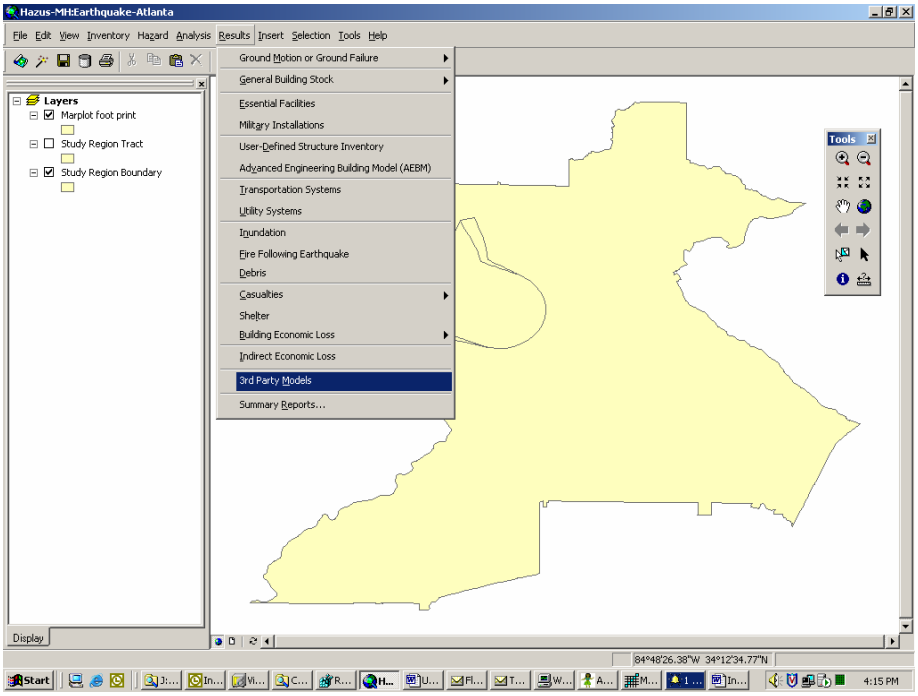
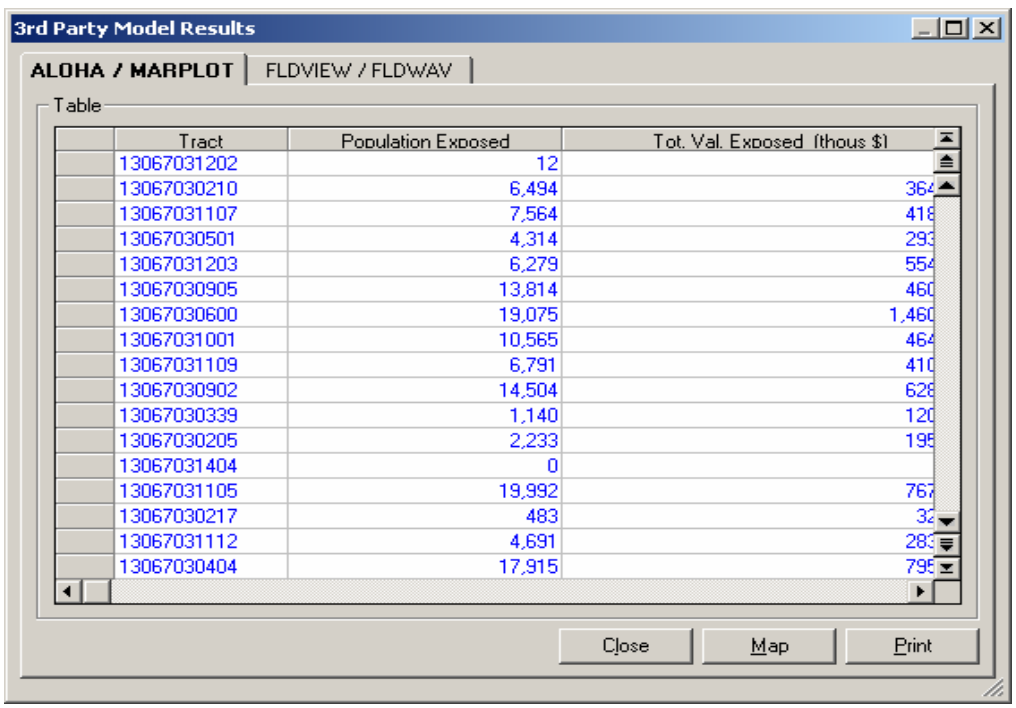


Figure D.15.

15. ***HAZUS-MH*** will show the Result's browser for ALOHA/MARPLOT exposure



Tract	Population Exposed	Tot. Val. Exposed (thous $)
13067031202	12	
13067030210	6,494	364
13067031107	7,564	418
13067030501	4,314	293
13067031203	6,279	554
13067030905	13,814	460
13067030600	19,075	1,460
13067031001	10,565	464
13067031109	6,791	410
13067030902	14,504	628
13067030339	1,140	120
13067030205	2,233	195
13067031404	0	
13067031105	19,992	767
13067030217	483	32
13067031112	4,691	283
13067030404	17,915	795

Figure D.16.

16. To view summary report **Results | Summary Reports**

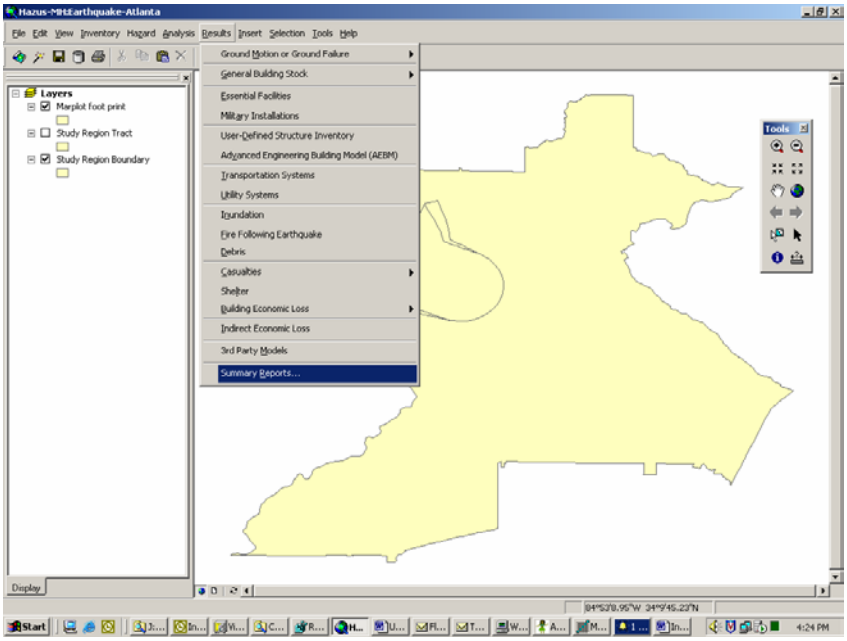


Figure D.17.

17. Then go to 3rd Party Tab and Select ALOHA / Marplot Report and click view.

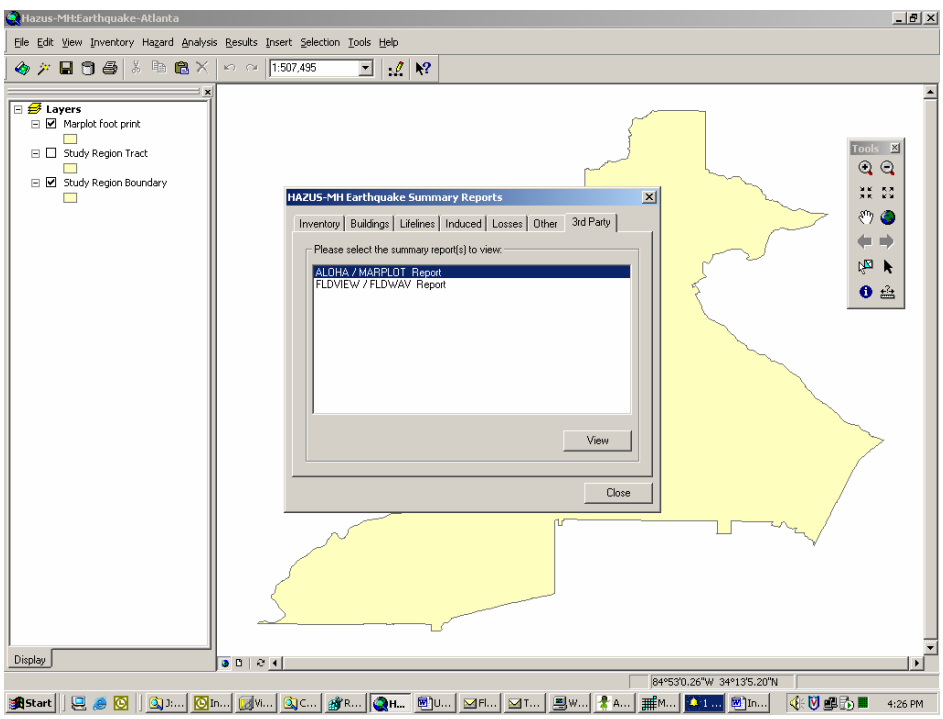
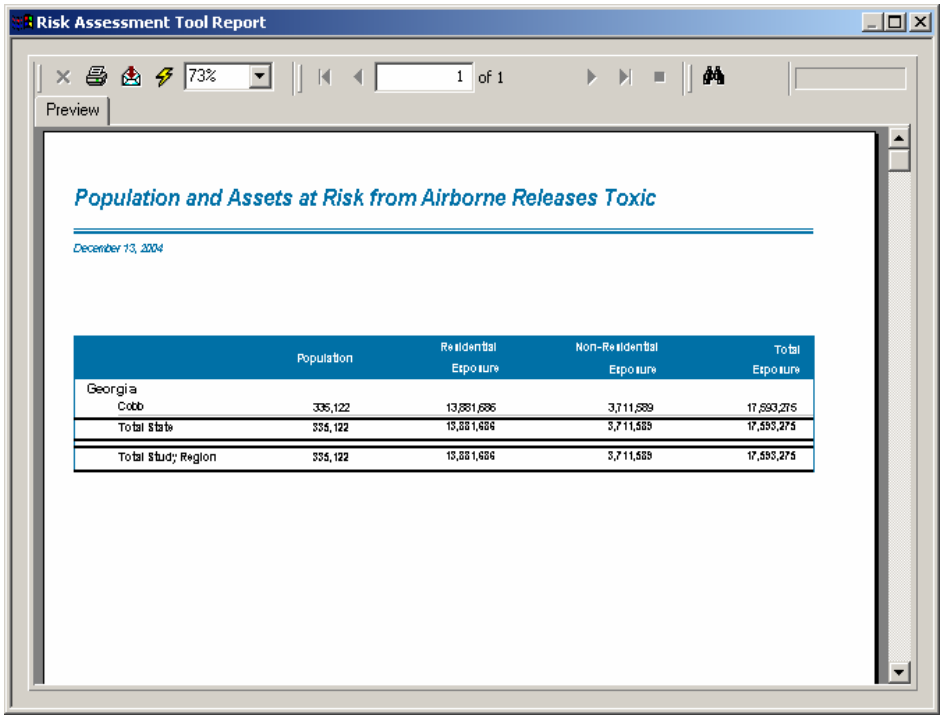


Figure D.18.

18. ***HAZUS-MH*** will launch summary report for ALOHA/Marplot



	Population	Residential Exposure	Non-Residential Exposure	Total Exposure
Georgia				
Cobb	335,122	13,881,686	3,711,589	17,593,275
Total State	335,122	13,881,686	3,711,589	17,593,275
Total Study Region	335,122	13,881,686	3,711,589	17,593,275

Figure D.19.

Appendix E. FLDWAV / FLOODVIEW Integration with HAZUS-MH

E.1 Introduction

E.1.1 Purpose

The goal of the document is to show how FLDWAV/FLOODVIEW can be run from within HAZUS-MH and the results could be overlaid onto HAZUS-MH inventory and results.

E.1.2 Scope

This document describes how FLDWAV/FLOODVIEW could be launched from HAZUS-MH and the results from FLDWAV/FLOODVIEW could be brought into HAZUS-MH for overlay analysis. This document doesn't explain how to run FLDWAV/FLOODVIEW.

E.2 Prerequisites

HAZUS-MH doesn't install FLDWAV/FLOODVIEW as part of its installation. Before FLDWAV/FLOODVIEW could be used from HAZUS-MH, the user needs to install FLDWAV and FLOODVIEW. Once FLDWAV and FLOODVIEW are installed HAZUS-MH automatically detects the application and launches it.

E.3 Running FLDWAV and FLOODVIEW from within HAZUS-MH

1. Install ***FLDWAV*** on the computer.

2. The *DATAFILE* contains switch to let ***FLDWAV*** know how to access input/output files. FLDWAV will prompt the user for file names (DEFAULT value = 0). The user can change this value as per the instructions provided in the ***FLDWAV*** manual.

3. Prepare the ***FLDWAV*** dataset as shown in Figure E.1.

4. Install ***FLDVIEW*** on the computer.

5. For Windows 2000

    a. Right click "***My Computer***" and select "***Properties***".

    b. Select the "***Advanced***" tab and click "***Environment Variables***" as shown in Figure E.2.

    c. Click "New" located under the window that's titled "User variables for..."

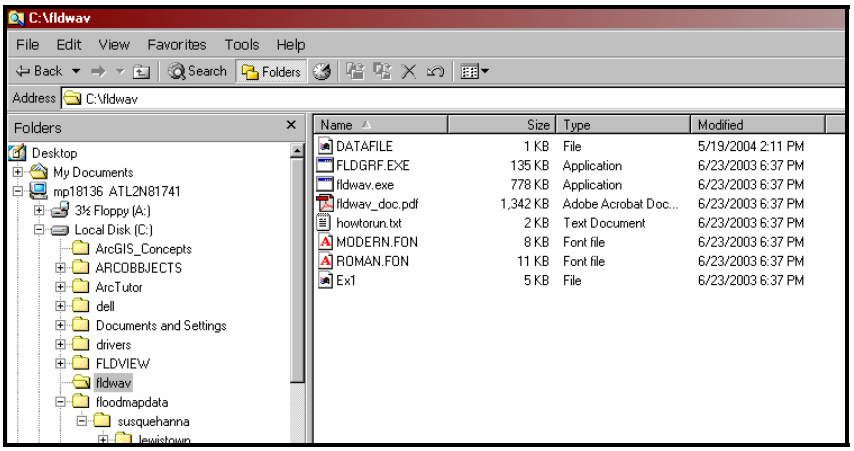


Figure E.1.

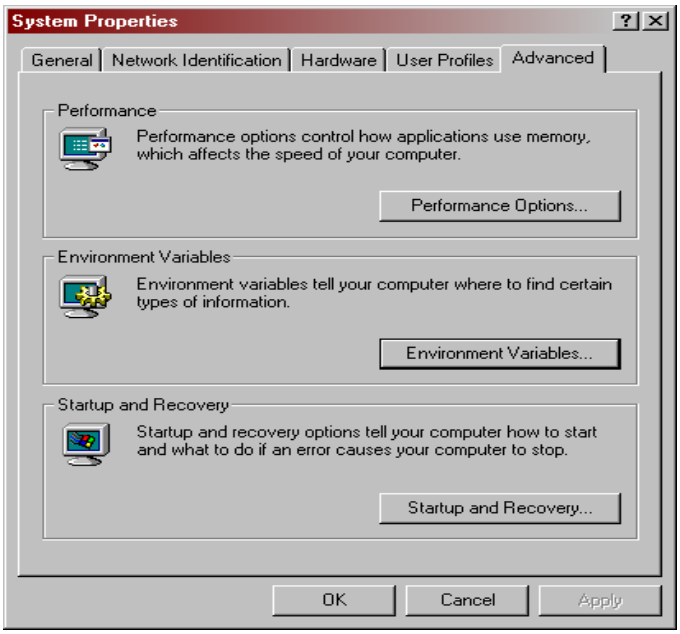


Figure E.2.

d. In the "Variable Name" field type "***FLDVIEW_DIR***"

e. In the "Variable Value" field type <full path name> as shown in Figure E.3. NOTE - <full path name> points to the folder in which the project (.apr) is located not the actual project.

f. Select "OK" to close the dialog. Then "OK" again, twice, to exit out of "My Computer"

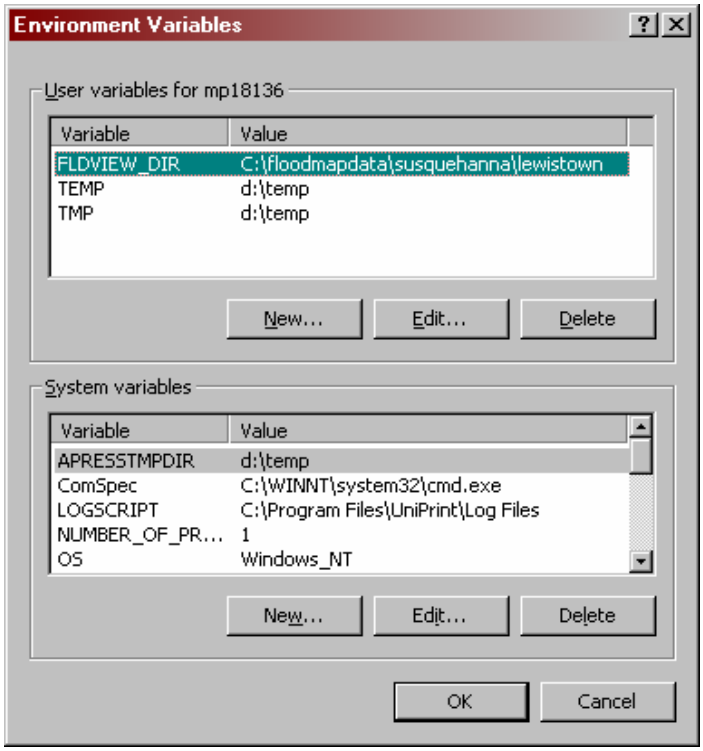


Figure E.3.

6. Start ***HAZUS-MH***, aggregate the appropriate region as per the requirement at county, block or at tract level.

7. Open the region, from the menu; select the **Analysis |3rd party Models| FLDWAV| Run.**

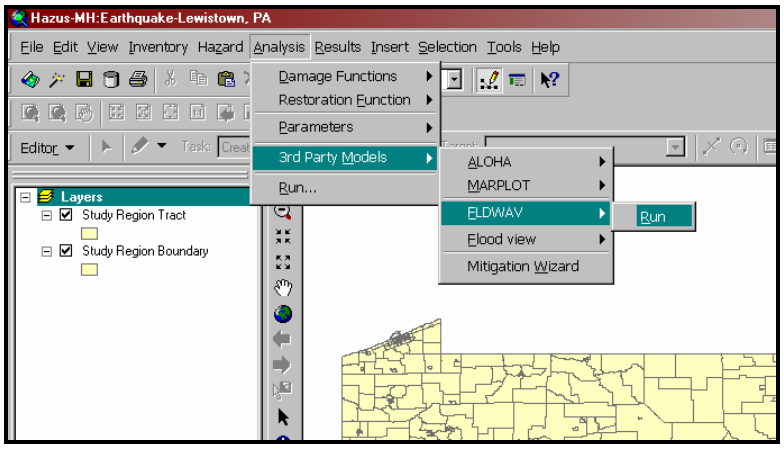


Figure E.4.

8. ***HAZUS-MH*** will check whether the ***FLDWAV*** program is installed. Click yes as shown in Figure E.5 and the program will look for the ***FLDWAV*** folder location

and pops up a ***DOS prompt*** menu, as shown in Figure E.6, where the user can enter the input and output data file names.

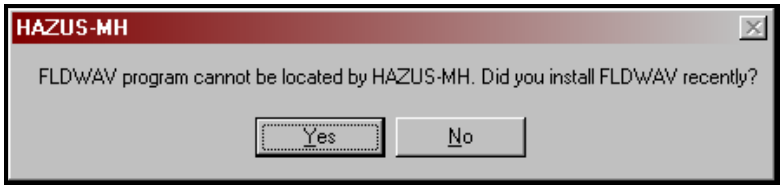


Figure E.5.

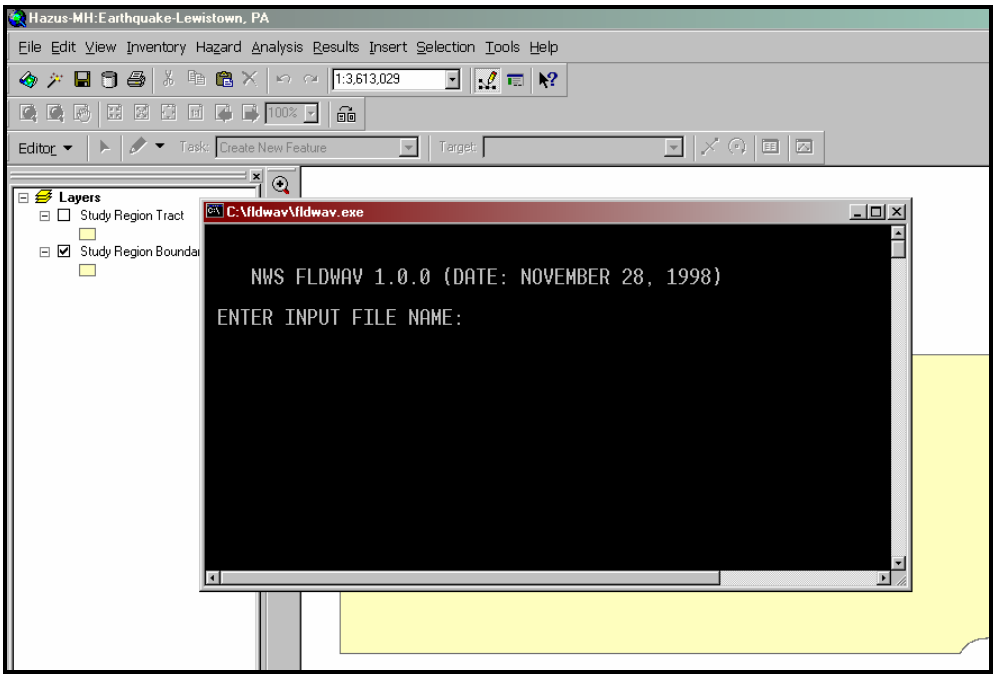


Figure E.6.

9. After providing the input/output data file names, press ***Enter*** on the keyboard. The output is placed in the ***FLDWAV*** folder location (Figure E.7.).

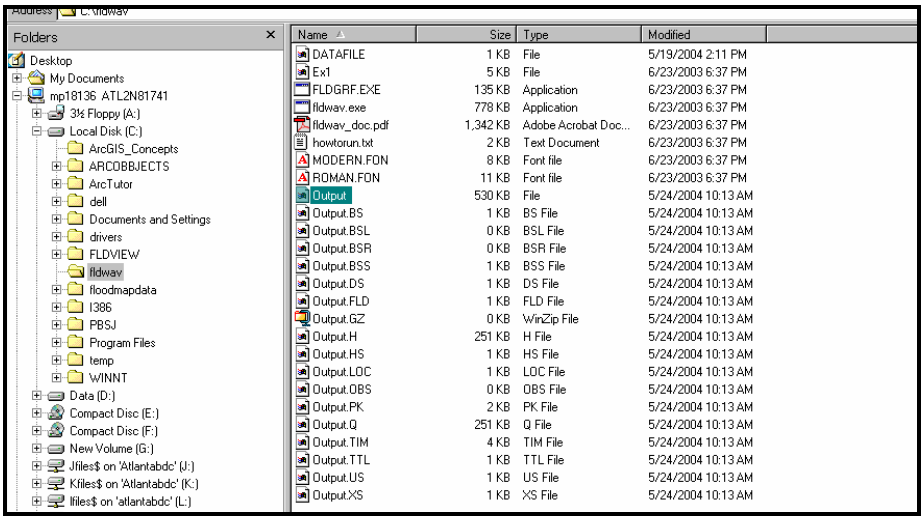


Figure E.7.

10. Once ***FLDWAV*** output has been generated**,** select **Analysis| 3rd party Models| Flood View| Run** from HAZUS-MH (Figure E.8)**.**

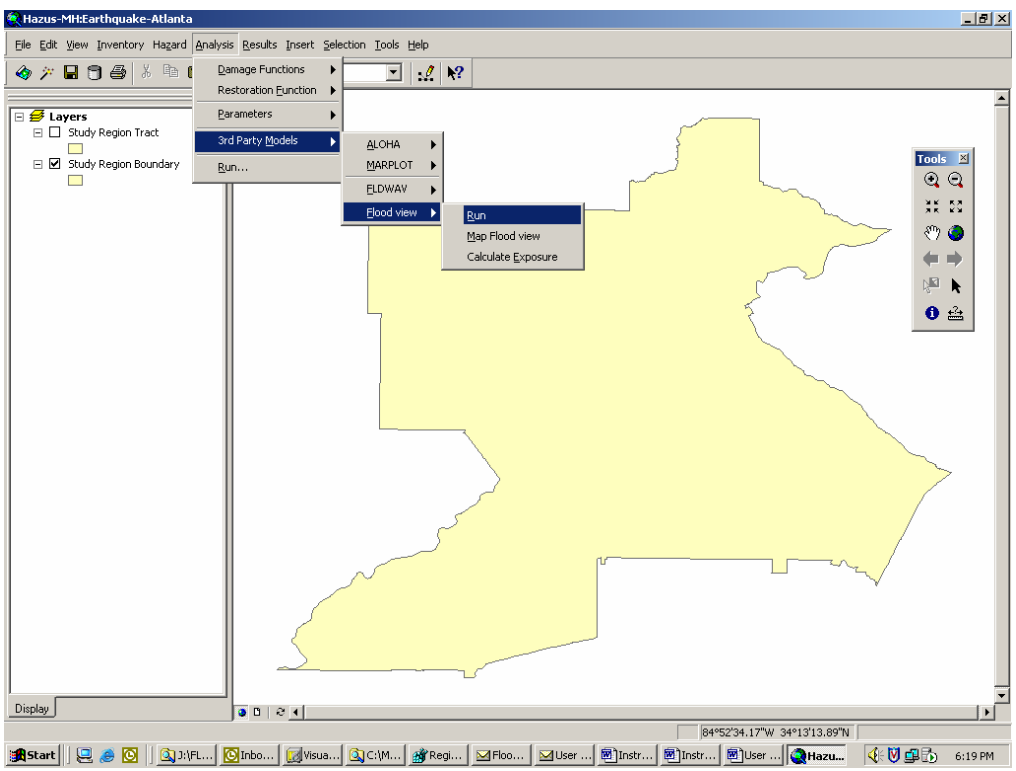


Figure E.8.

11. After providing the input/output data file names, press ***Enter*** on the keyboard. The output is placed in the ***FLDWAV*** folder location

12. ***HAZUS-MH*** will check whether the ***FLDVIEW*** program is installed. Click yes, the program will look for the ***FLDVIEW*** folder location and looks for the project file to launch ***ARCVIEW***. Browse to the location of project file and click open.

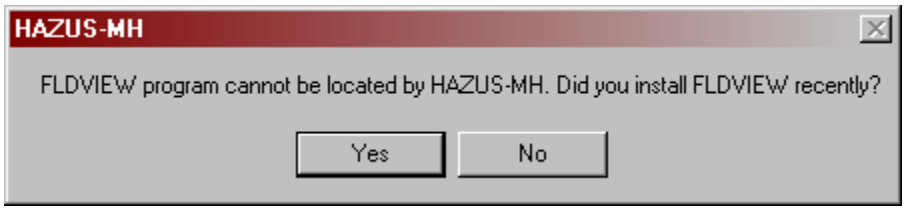


Figure E.9.

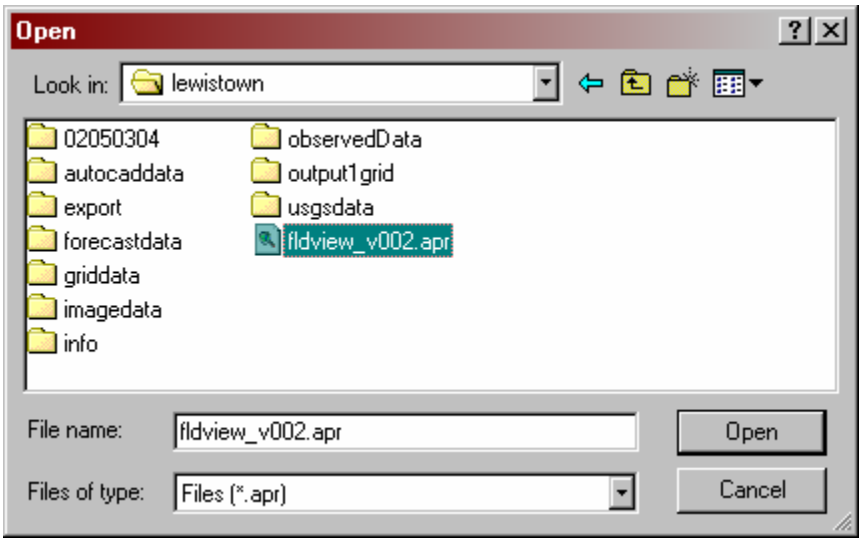


Figure E.10.

13. Complete the analysis in ***FLDVIEW***. From the menu select the **Analysis| 3rd party Models| FLDVIEW| Map Flood View**. The flood map generated in the ARCVIEW is added to the Table of contents in ***HAZUS-MH***.

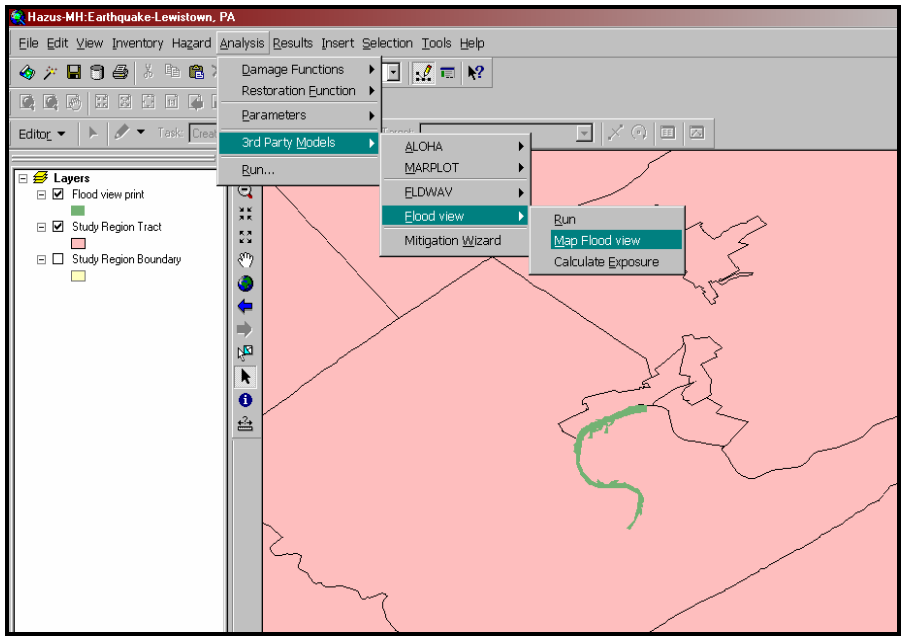
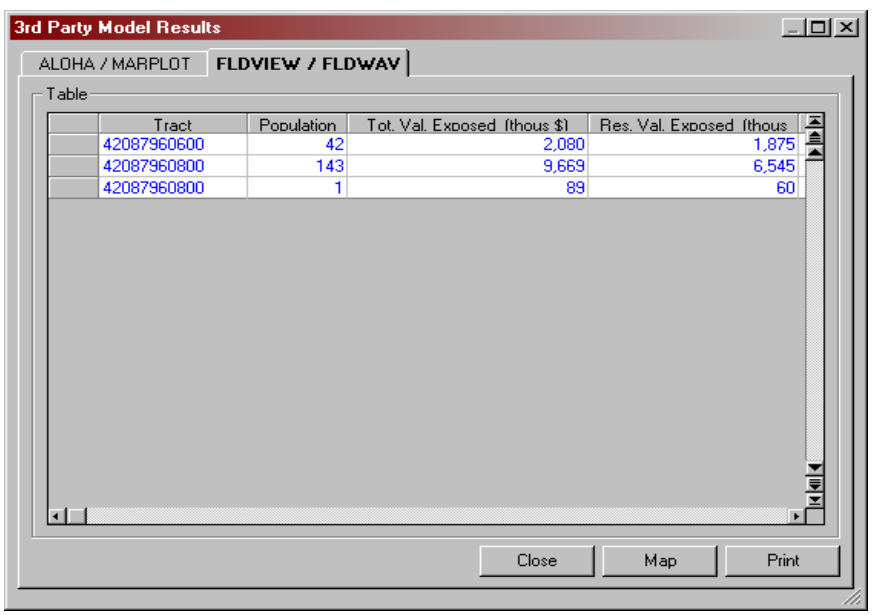


Figure E.11.

14. To calculate the exposure, from the menu select ***Analysis***| ***3rd party Models***| ***FLDVIEW***| Calculate exposure. To view the results, from the menu select ***Results***| ***3rd party Models***, which gives the exposure in thousands of dollars for the each region (county or block or tract) analyzed.



Tract	Population	Tot. Val. Exposed (thous $)	Res. Val. Exposed (thous
42087960600	42	2,080	1,875
42087960800	143	9,669	6,545
42087960800	1	89	60

Figure E.12.

Appendix F. Running HAZUS-MH with SQL Server 2005

F.1 Introduction

HAZUS-MH MR3 uses SQL Server 2005 Express Edition as the database engine. The express edition is a free and lightweight version of SQL Server 2005, and therefore has several limitations, including a 4-GB database size limit.

There are three *full* editions of SQL Server 2005 that lift the 4-GB database limit: Enterprise, Standard, and Workgroup. A special Developer edition is also available (refer to Microsoft's web site for the differences between the different editions).

HAZUS-MH has been tested to run with the ***Express Edition and SQL Server 2005 Developer Edition*** only. HAZUS-MH has not been explicitly tested to run with the other editions of SQL Server 2005 (Enterprise, Workgroup, and Standard).

HAZUS-MH neither installs nor includes any of the full versions of SQL Server 2005. Before HAZUS-MH can be configured to run with any of the full editions of SQL Server, the user needs to purchase and install SQL Server 2005 separately.

F.2 Purpose

The purpose of this document is to show how HAZUS-MH can be configured to run with the full version of SQL Server 2005 and also how to configure HAZUS-MH back to run with the SQL Server Express-based default installation.

F.3 Steps to Configure HAZUS-MH to Run With SQL SERVER 2005

1. Install HAZUS-MH then launch it at least one time and close it.

2. Open the windows registry. To do this, click the "Start" button and select "Run" to open the Run window. Type "regedit" in the Run window edit box (Figure F.1) and click the "OK" button to open the Registry Editor.

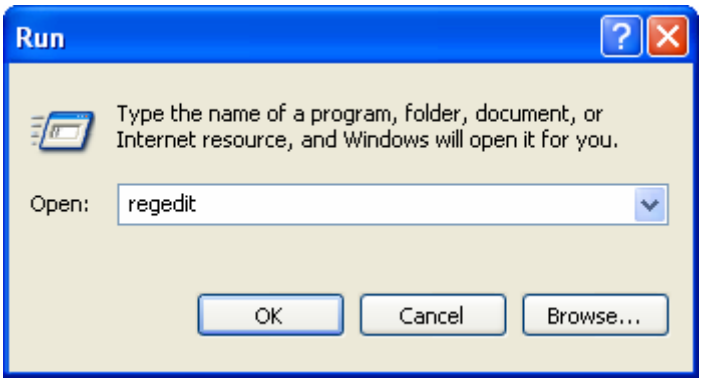


Figure F.1

3. Navigate through the folders listed in the Registry Editor to the location: [HKEY_LOCAL_MACHINE\SOFTWARE\FEMA\HAZUS-MH\General] in Registry Editor Window (Figure F.2).

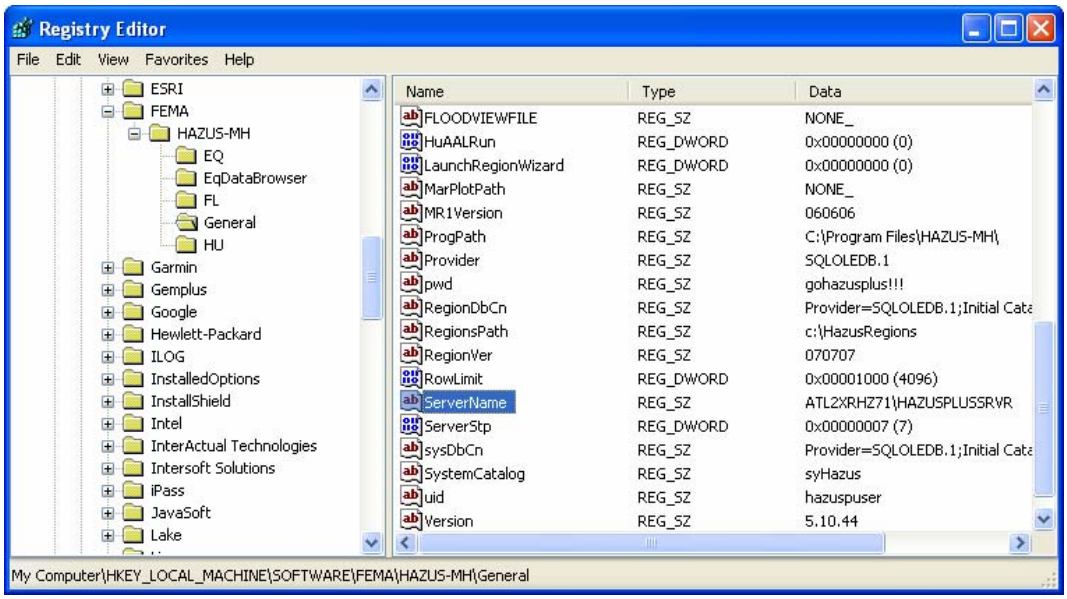


Figure F.2

4. Double click on "ServerName" (shown highlighted above in Figure F.2) and enter the name of the new SQL Server 2005 instance. The name is in the format <computername>/<instancename>. For example, if the machine name is ATLHW32P91 and the instance name is SQL2005[1], then the registry enter should show ATLHW32P91 \SQL2005. Open the SQL Server Management Studio from Start|Programs|Microsoft SQL Server 2005|SQL Server Management Studio on windows menu.

5. Under SQL Server double click Security folder and select Logins and right click the mouse. From the Popup menu select New Login as shown in Figure F.3.

[1] The instance name is specified during the SQL Server 2005 installation.

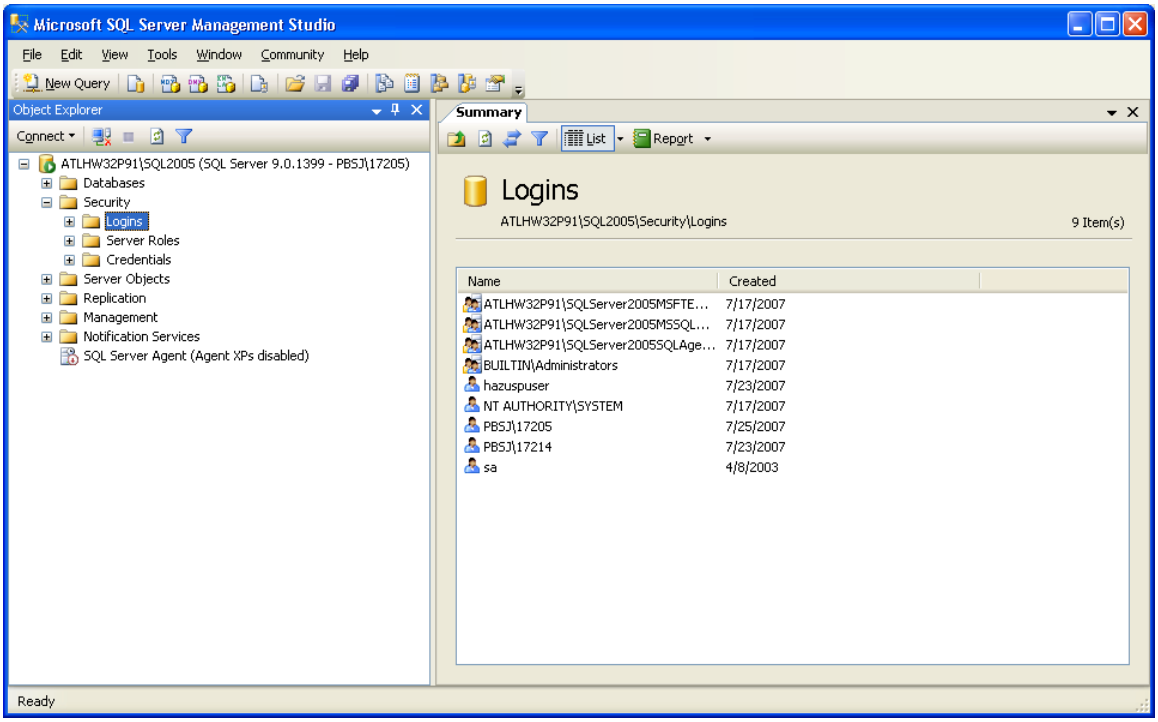


Figure F.3

6. In "SQL Server Properties -New Login" dialog enter “hazuspuser” in the name field without parentheses as shown in Figure F.4.

7. Click SQL Server Authentication option. Enter the password "gohazusplus!!!" without parentheses.

8. Uncheck the “User must change password at next login” option if it is checked.

9. Click OK.

You can get the names in 7 and 8 above by copying them from registry [HKEY_LOCAL_MACHINE\SOFTWARE\FEMA\HAZUS-MH\General] (see Figure F.2)

- For Name field copy it from **uid** in the registry and paste it in the appropriate field.

- For Password copy it from **pwd** in the registry and paste it in the appropriate field.

- It is better to copy these values from registry to avoid typographical errors.

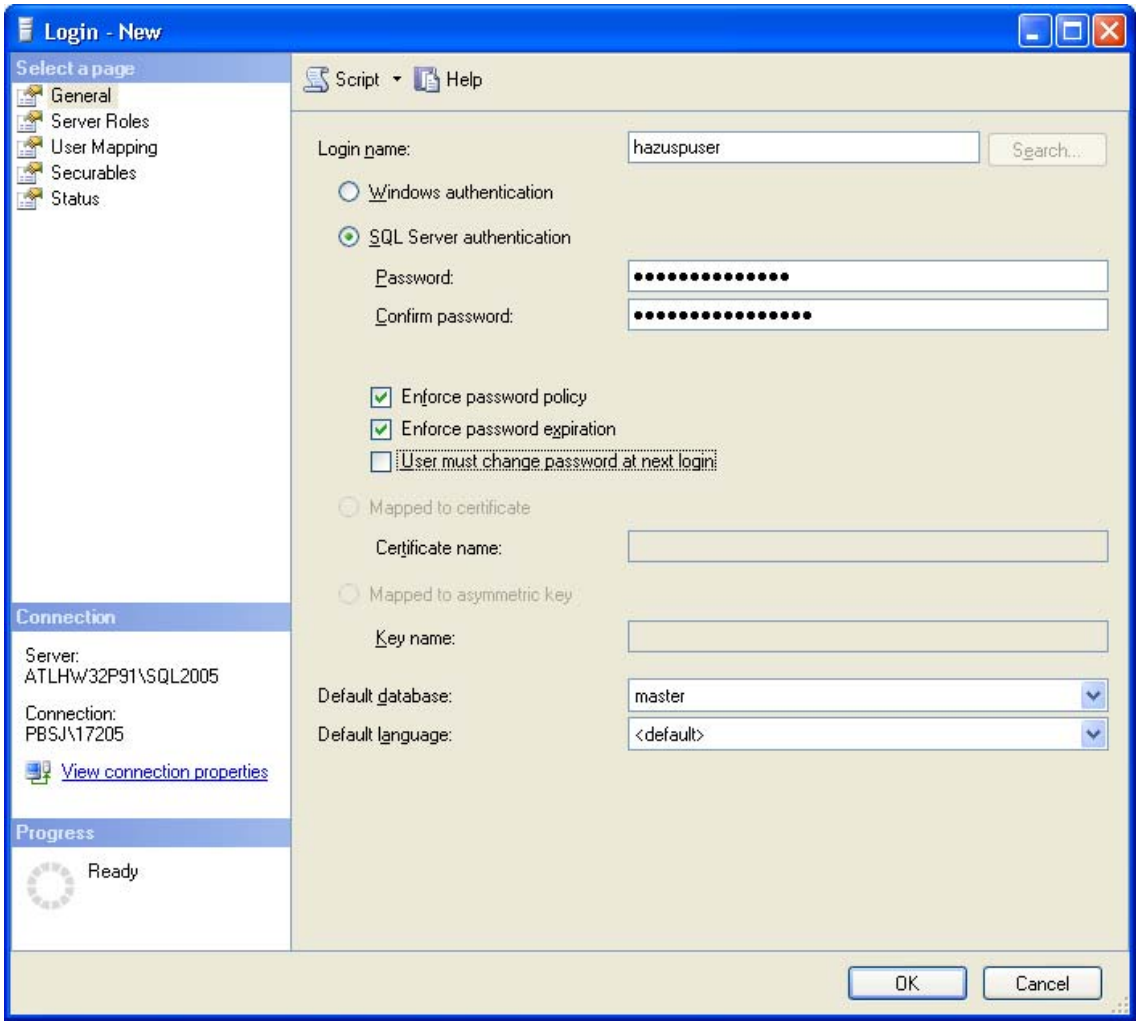


Figure F.4

10. After that Click Server Roles Tab and check sysadmin. Click OK (Figure F.5).

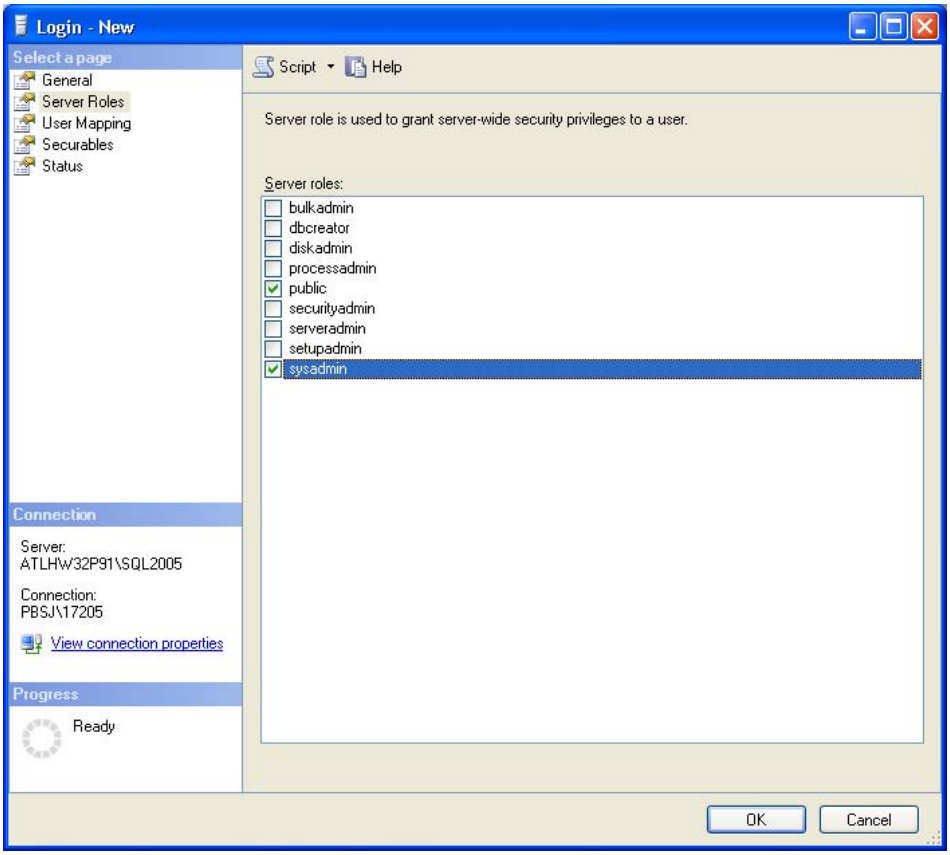


Figure F.5

11. Confirm password "gohazusplus!!!" and Click OK.

12. Now connect to the HAZUSPLUSSRVR installed by HAZUS-MH via the Management studio. To do that Click the "Connect" button at the top left corner of the SQL Server Management Studio and select Database Engine… option (Figure F.6)

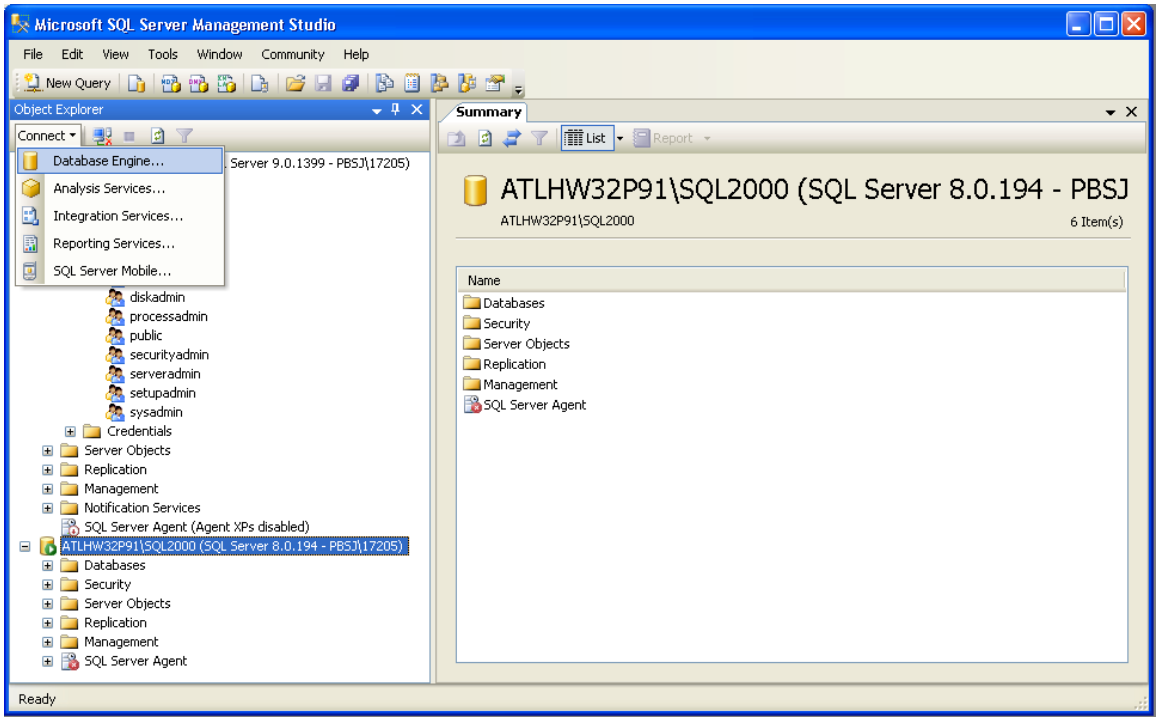


Figure F.6

13. For **Server name** select or type in YourComputerName\HAZUSPLUSSRVR.

14. Select Windows Authentication for the **Authentication**

15. Click on the **Connect** button..

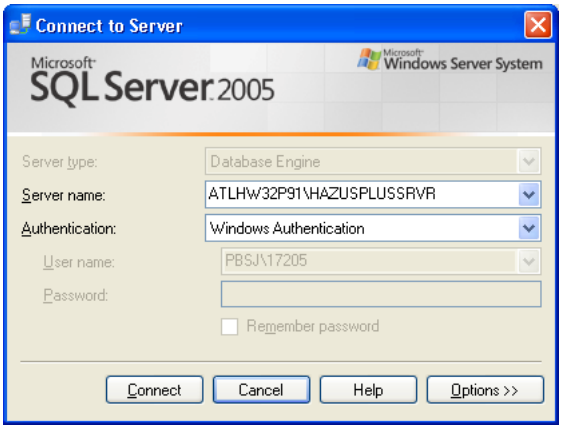


Figure F.7

16. Now, the new database server will be visible on the Management Studio as shown in Figure F.8.

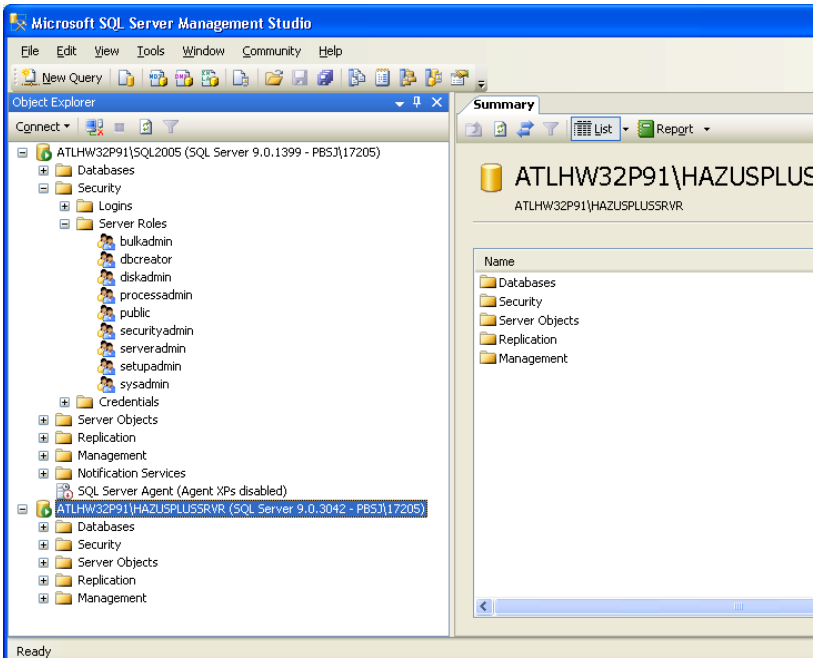


Figure F.8

17. Next navigate to Databases folder under HAZUSPLUSSRVR Server and expand it. Select syHazus database, Right click on it and Task | Detach and click OK (Figure F.9).

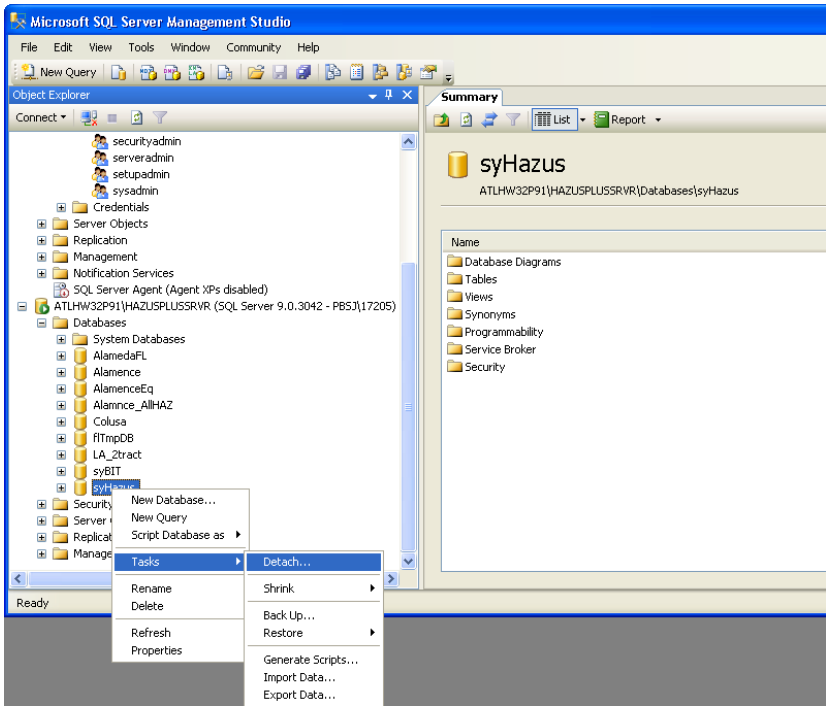


Figure F.9

18. Navigate to the folder that represents the new server (ATLHW32P91 in Figure F.10). Select Database folder and Right click the mouse, Select Attach… database... option as shown in F.10.

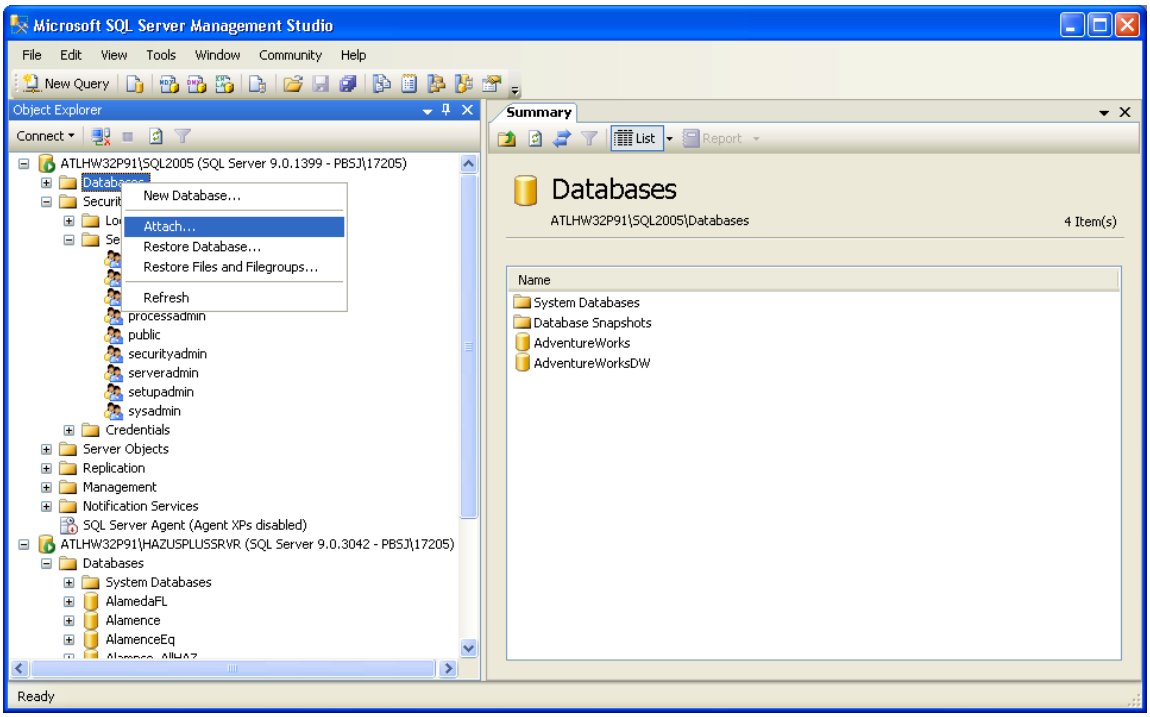


Figure F.10

19. This will launch the **Attach Database** dialog as shown in Figure F.11.

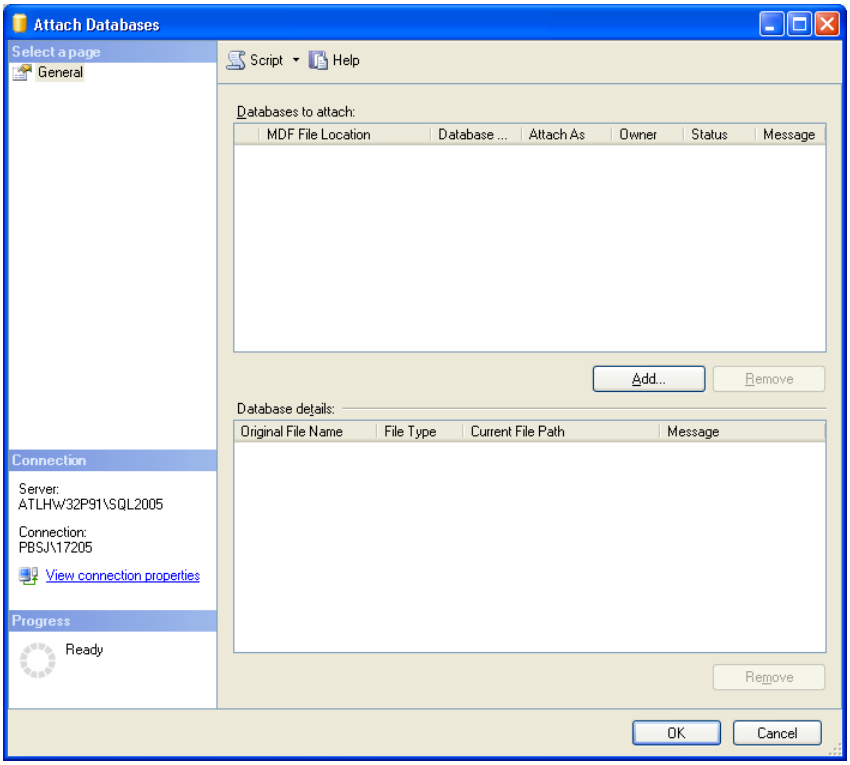


Figure F.11

20. Click Add button and browse to the folder where HAZUS-MH is installed. Within HAZUS-MH folder open Data folder (Figure F.12).

21. Select SyHazus_Data.MDF and click OK twice

22. You should get a message that the syHazus is attached successfully.

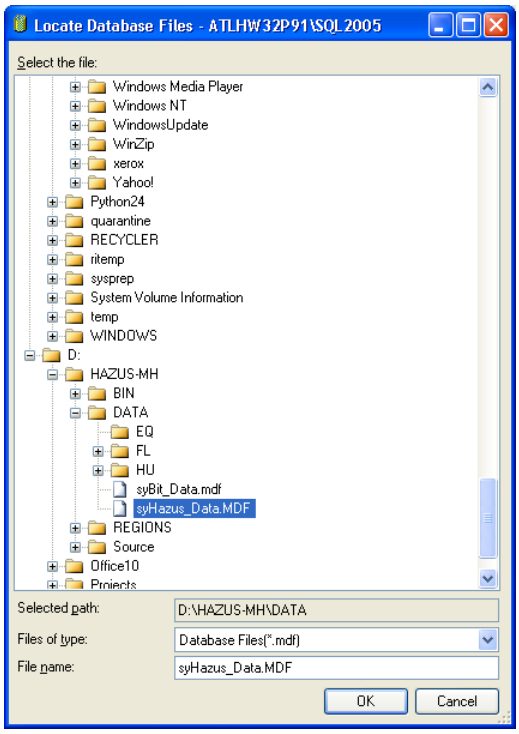

Locate Database Files - ATLHW32P91\SQL2005
Select the file:
Windows Media Player
Windows NT
WindowsUpdate
WinZip
xerox
Yahoo!
Python24
quarantine
RECYCLER
ritemp
sysprep
System Volume Information
temp
WINDOWS
D:
HAZUS-MH
BIN
DATA
EQ
FL
HU
syBit_Data.mdf
syHazus_Data.MDF
REGIONS
Source
Office10
Selected path:
D:\HAZUS-MH\DATA
Files of type:
Database Files(*.mdf)
File name:
syHazus_Data.MDF
OK
Cancel

Figure F.12

23. Right click the mouse on New Server (**ATLHW32P91** in Figure F.13) in the Management Studio. Select **Properties** from the short cut menu. This will launch the **Server Properties** dialog. Click on **Security** option, and make sure that the Server Authentication is set it **SQL Server and Windows Authentication Mode** as shown in Figure F.13.

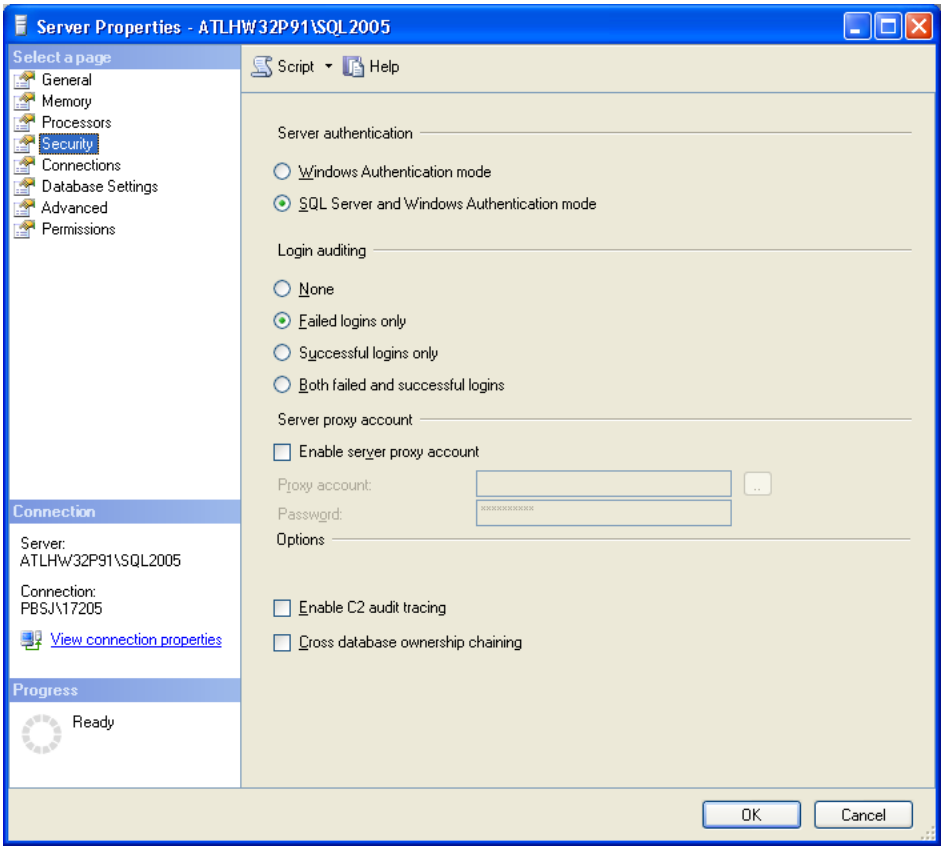


Figure F.13

HAZUS-MH MR3 is ready to be run from the New SQL Server. Proceed with creating the desired new study regions.

IMPORTANT NOTE:

Steps above are valid if the re-connection from the SQL Server Express edition to the full version of SQL Server is done right after the HAZUS-MH setup. If any number of study regions has been created already, then ALL those study regions must be also moved to the full SQL Server 2005 (follow same process above as for syHAZUS database).

F.4 Steps to Reconfigure HAZUS-MH to Use Original SQL Server Express

Once HAZUS-MH has been configured to run with SQL Server 2005 it cannot be uninstalled. Before uninstalling HAZUS-MH it's necessary to reconfigure HAZUS-MH to run with HAZUSPLUSSRVR, the way it was configured by the installation. Follow the steps outlined below to achieve this:

1. Launch SQL Sever Management Studio Manager.

2. Detach syHazus database from SQL Server.

3. Attach syHazus to the HAZUSPLUSSRVR.

4. Launch the SQL Server Service Manager from **Start | Programs | Microsoft SQL Server 2005 | SQL Server Configuration Manager.** Select "SQL Server 2005 Services" from the list on the left, then select the HAZUSPLUSSRVR instance, right-click, and select Restart.

5. Also restart the full SQL server instance by following the same steps.

Multi-hazard Loss Estimation Methodology

Hurricane Model

HAZUS®*MH* MR3

User Manual – Appendix G

Developed by:

Department of Homeland Security
Federal Emergency Management Agency
Mitigation Division
Washington, D.C.

Under a contract with:

National Institute of Building Sciences
Washington, D.C.

FOREWORD

The research and development and studies that provided the basis for this publication were conducted pursuant to a contract with the Federal Emergency Management Agency (FEMA) by the:

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HAZUS-MH, HAZUS-MH MR1, HAZUS-MH MR2 and HAZUS-MH MR3

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MESSAGE TO USERS

The HAZUS Hurricane Model is designed to produce loss estimates for use by federal, state, regional and local governments in planning for hurricane risk mitigation, emergency preparedness, response and recovery. The methodology deals with important aspects of the built environment, and a wide range of different types of losses. Extensive national databases are embedded within HAZUS, containing information such as demographic aspects of the population in a study region, square footage for different occupancies of buildings, and numbers and locations of bridges. Embedded parameters have been included as needed. Using this information, users can carry out general loss estimates for a region. The HAZUS methodology and software are flexible enough so that locally developed inventories and other data that more accurately reflect the local environment can be substituted, resulting in increased accuracy.

Uncertainties are inherent in any loss estimation methodology. They arise in part from incomplete scientific knowledge concerning hurricanes and their effects upon buildings and facilities. They also result from the approximations and simplifications that are necessary for comprehensive analyses. Incomplete or inaccurate inventories of the built environment, demographics and economic parameters add to the uncertainty. Where inventories, demographics and economic parameters track closely those assumed and built into the basic methodology, estimates of loss should be within a factor of two. Where one or more of these parameters are incomplete or inaccurate the range of uncertainty may exceed a factor of two or more.

The hurricane loss estimation methodology is based on sound scientific and engineering principals and experimental and experience data. The methodology has been tested against the judgment of experts and, to the extent possible, against records from several past hurricanes. However, limited and incomplete data about actual hurricane damage precludes complete calibration of the methodology. Nevertheless, when used with embedded inventories and parameters, the HAZUS Hurricane Model has provided a credible estimate of such aggregated losses as the total cost of damage.

Users should be aware of the following specific limitations:

- While the HAZUS Hurricane Model can be used to estimate losses for an individual building, the results must be considered as average for a group of similar buildings. It is frequently noted that nominally similar buildings have experienced vastly different damage and losses during a hurricane.

- The Hurricane model contains definitions and assumptions regarding building strengths that represent a norm for construction in hurricane zones. These norms are defined in the technical manual. Where construction quality is known to be different from the defined norms, larger uncertainties in loss projections may be realized.

HAZUS should still be regarded as a work in progress. Additional damage and loss data from actual hurricanes and further experience in using the software will contribute to

improvements in future releases. To assist us in further improving HAZUS, users are invited to submit comments on methodological and software issues by letter, fax or e-mail to:

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LIMITATIONS OF THE HAZUS-MH MR3 SOFTWARE

Installation

- HAZUS-MH MR3 is certified to run on ArcGIS 9.2 SP2. Tests have shown that HAZUS-MH MR3 is unable to fully function on the ArcGIS 9.2 platform only. SP1 is required, but SP2 is preferable. ArcGIS 9.2 SP2 is available from the ESRI website.
- HAZUS-MH MR3 is certified to run on MS Windows 2000 SP2, SP3 and SP 4 and Windows XP SP1 and SP2. A user is allowed to install HAZUS-MH MR2 on MS Windows 2000 and XP for Service Packs higher than SP4 and SP2 respectively, but HAZUS-MH MR2 is not certified to work flawlessly with those service packs.
- HAZUS-MH MR3 must be uninstalled only with the Windows Add/Remove Programs utility. For details on uninstalling, please consult the User Manuals.
- Users who plan to operate HAZUS-MH MR3 in a network environment will be able to perform HAZUS operations, such as importing, but not study region creation.

Study Region Size

- The database management system of HAZUS-MH MR3 is SQL 2005 Express. This system has a size limit of 4 GB per database, which limits the size of the regions to about 3,000 census tracts, equivalent to an area with a population of about 9 million. For a multi-hazard study region that includes data for all three hazards, the 4 GB limit will permit an even smaller study region. To work around this, the full version of Microsoft SQL Server 2005 Workgroup Standard Edition must be used (see Appendix F in the Hurricane User Manual).
- Multihazard loss analysis capability is limited to the 23 states that experience hurricane, flood and earthquake hazards and requires that the user first run annualized losses for each of the three hazards.
- To maximize the size of a study region that may be analyzed, set the virtual memory size from a minimum of *2048 MB* to a maximum of *4096 MB*. For the earthquake model, the virtual memory size may be increased from a minimum of *1024 MB* to a maximum of *2048 MB* for optimal operation. Here are the steps for setting the virtual memory size:
    1. Click on Start | Settings | Control Panel | System |
    2. Click on the Advanced Tab
    3. Click on the Performance Options button
    4. Click the Change button under Virtual Memory
    5. Replace the initial and maximum values
    6. Click Apply
- The HAZUS-MH MR3 installation allows the user to specify the folder where the state data will be copied through the "Choose Data Path" dialog in the installation

wizard. If, at the time of installation, the user specifies the folder where the data will be copied after installation, they only need to perform Step 1 as described below. If at the time of installation the User does not specify the folder where the state data will be copied by the user after installation, or if they want to change the folder specified during installation, then Steps 2 through 4 for updating the Registry should be completed.

NOTE: The "Choose Data Path" dialog in the installation process only specifies the folder where the state data will be copied by the user from the DVD after installation has completed. This dialog doesn't copy the data from the DVD to the specified folder; that has to be done manually by the user after installation.

1. Copy one or more of the state data folders (e.g., NC1), both the DVD identification files (e.g., D1.txt ^ 4.txt) and "syBoundary.mdb" from the Data DVD to a folder on your hard drive (e.g., D:\HAZUSData\). As an example, the following graphic illustrates how the data for the state of South Carolina would be organized under the HAZUS Data folder.

2. Next, point the program to the data folder on your local hard drive. To do this, click the "Start" button and select "Run" to open the Run window, type "regedit" in the Run window edit box and click the "OK" button to open the Registry Editor. Navigate through the folders listed in the Registry Editor to the following location:

HKEY_LOCAL MACHINE | SOFTWARE | FEMA | HAZUS-MH | General

3. Now look at the right side of the window and find the entry called "DataPath1". Double click on "DataPath1" to open the Edit String window and enter the full name of the folder on the hard drive that contains the data copied from the DVDs in the edit box. Click the OK button to update the DataPath1 value.

IMPORTANT: Make sure the path ends with a "\" and do not change any of the other registry settings.

4. Close the Registry Editor by choosing Exit from the File menu of the Registry Editor.

Capabilities

- Transferring data, including importing study regions, from HAZUS99, HAZUS99-SR1, HAZUS99-SR2, HAZUS-MH and HAZUS-MH MR1 to HAZUS-MH MR3 will require the assistance of technical support.
- Inventory data and subsequently the Level 1 analysis functionality are unavailable for the US held territories.
- Components of independently developed data sets in the default inventory data might not line up on maps, for example, the placement of bridges and roads, and facilities. This situation can be addressed by updating the default inventory data with user supplied data.
- The Hurricane Model can be run for 22 states on the Gulf and Atlantic coasts and for the state of Hawaii. Default tree inventory data is not available for Hawaii.

- Loss estimates for large study regions of 2,000 census tracts or blocks might require 4 hours analysis time.

Technical Support

- Technical support is available via telephone, e-mail, or FAX. The numbers and addresses are listed on the HAZUS software package and under the Help menu in the software. Information on HAZUS updates, software patches, and FAQs are available at www.fema.gov/hazus/.

WHAT'S NEW IN HAZUS-MH MR1 – HURRICANE MODEL

Data

- Updated valuations for the general building stock.

Methodology

- Capability to assess hurricane mitigation options for multi-unit buildings and manufactured housing.
- Capability to define hurricanes with NWS forecasts/advisories downloaded directly from the Internet.

Other Features

- Operation on the new ArcGIS 9.0 SP1 platform.
- Capability to utilize third-party tools.
- Optimized software for rapid loss assessment.

WHAT'S NEW IN HAZUS-MH MR 2 – HURRICANE MODEL

Data

- 2005 valuation data for all occupancy classes.
- Means location factors for residential and non-residential occupancies on a county basis.
- Updated and validated valuation data for single-family residential housing and manufactured housing based on comparisons with other national databases.
- Zeros substituted for any negative values calculated for the daytime, nighttime, working commercial, working industrial and commuting populations.
- Construction age and values by decade for every census block with floor area (square footage).

Methodology

- Availability of mitigation analysis options for all building classes and capability to specify the percentages of each building class that have one or more mitigation features.
- Capability to estimate tree debris weight or volume that is likely to be collected and discarded at public expense.
- Capability through an "Automatic Outputs" tool in the analysis options window to specify a standard set of summary reports and map layers that will be generated after each analysis and automatically exported to the study region folder.
- Capability to generate a range, representing the 5th and 95th percentiles, of potential damage and loss estimates for a given hurricane forecast, based on track and intensity errors in forecast advisories issued during the past 12 years, and to include the results in a new rapid loss summary report.
- Minor adjustments to the Hurricane Model Summary Reports to improve consistency among the three models.

Other Features

- Keyboard operation of all user interface operations with some exceptions.
- Operation on the ArcView 9.1 SP1 platform.
- Certified on Windows XP SP2.
- Operation on the MDAC 2.8 data access engine from Microsoft.

WHAT'S NEW IN HAZUS-MH MR 3 – HURRICANE MODEL

Data

- Commercial data updated to Dun & Bradstreet 2006.
- Building valuations updated to R.S. Means 2006.
- Building counts based on census housing unit counts for RES1 (single-family dwellings) and RES2 (manufactured housing) instead of calculated building counts.

Methodology

- Storms for 2004 and 2005 added to the historic storms database and updates made for several existing historic storms.
- Use of NOAA hurricane advisory data to model storms restored with an adjustment feature for calculating building damage and loss.
- New probabilistic storm set reflecting updates to the Holland pressure profile model and filling model.
- Updated wind field model for user-defined storms.
- New vulnerability functions to permit calculation of additional losses to manufactured housing due to tree blowdown.

Other Features

- Operation on the ArcView 9.2 SP2 platform.
- Operation on Microsoft SQL 2005 Express.
- Operation on the MDAC 2.8 SP1 data access engine from Microsoft.
- Operation on FarPoint Spread 7 – Spreadsheet
- Operation on Crystal Reports 11.
- Enhancements to the existing aggregation routines to reflect improved procedures for processing study region information.

Appendix G. Data Model Dictionary

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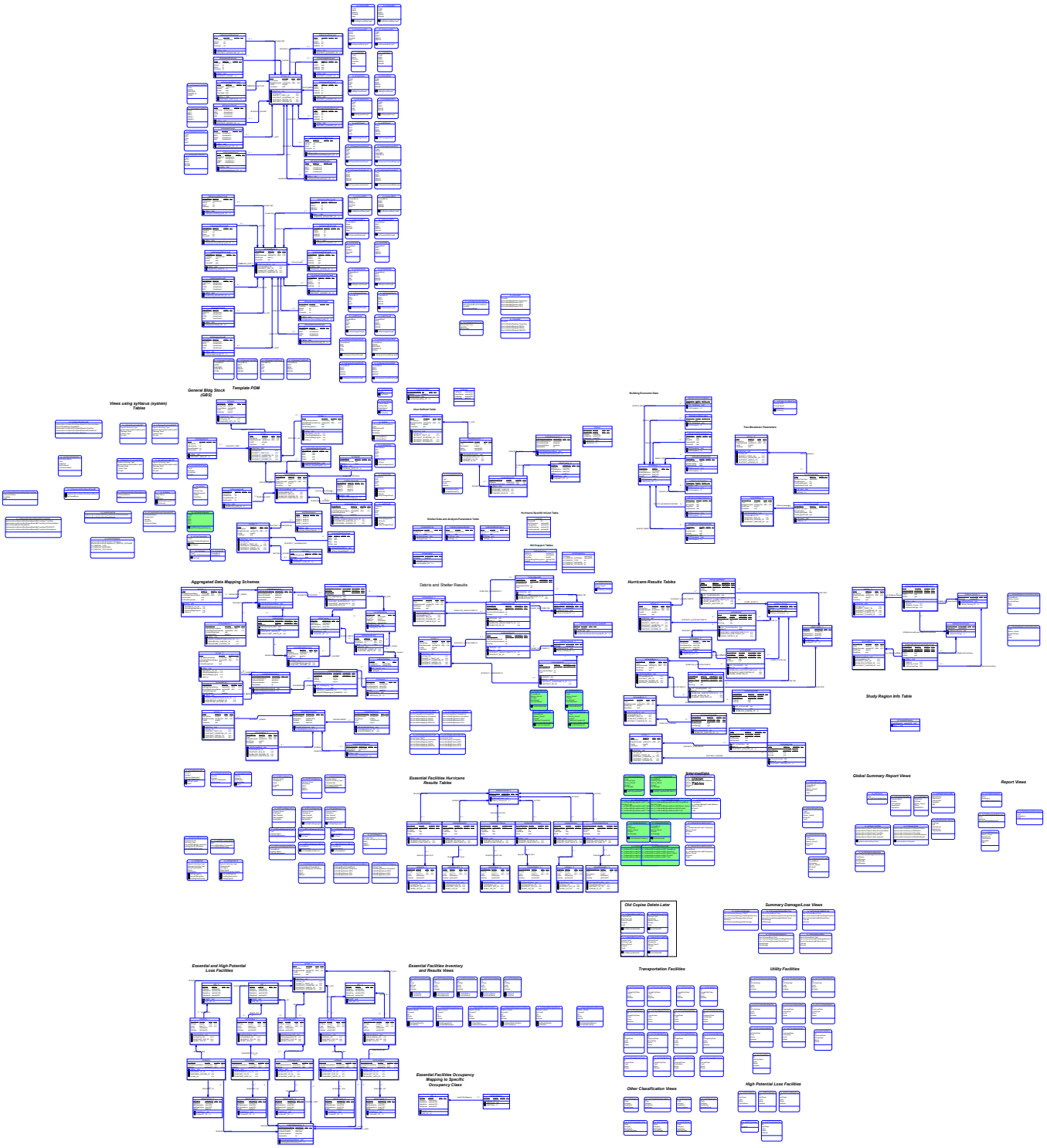
PDM Diagrams

Model level diagrams

Diagram Main CDM Diagram



High level list of objects

Table list

Name
clBldgTypeHu
clOccupancy
huAnalysisOpt
huBldgCharCase
huBldgCharTree
huBldgCharValidity
huBldgCharWt
huBldgCountBldgTypeB
huBldgCountBldgTypeT
huBldgEconBIAnnGrossSales
huBldgEconBIBusinessInv
huBldgEconILOwnerOcc
huBldgEconILRecaptureFactors
huBldgEconILRentalCost
huBldgEconILWageCapIncome
huBldgEconLossTypes
huBldgEconRTBusInterruption
huBldgMapping
huBldgMappingList
huBldgTypeResultsB
huBldgTypeResultsT
huCareFlty
huCensusBlock
huDebrisAndShelterDamTypesByRP
huDebrisResultsB
huDebrisResultsT
huEfOccMapping
huEmergencyCtr
huExposureBldgTypeB
huExposureBldgTypeT
huExposureContentBldgTypeB
huExposureContentBldgTypeT
huFireStation
huGbsOccMapping
huGbsOccMappingList
huGenAnalysisOpt
huGridProperties
huHazardMapWindSpeed
huHazardMapWindSpeedB
huInCast
huListOfBldgChar
huListOfWindBldgTypes
huOccResultsB
huOccResultsT
huPoliceStation
huRPWindSpeeds
huRPWindSpeedsB
huReports
huResultsBldgEconOutputAndEmpOccB
huResultsBldgEconOutputAndEmpOccT
huResultsCareFlty

huResultsEmergCtr
huResultsFireStation
huResultsPoliceStation
huResultsSchool
huResultsUserDefined
huReturn Periods
huSchool
huShelterCategoryWeights
huShelterDSProb
huShelterRelModFactors
huShelterResultsB
huShelterResultsT
huSqFootageBldgTypeB
huSqFootageBldgTypeT
huSummaryDamage
huSummaryDamageB
huSummaryLoss
huSummaryLossB
huTemplateScenario
huTerrain
huTerrainB
huTract
huTreeParameters
huTreeParametersB
huUserDefinedFlty
huhzGenBldgSchemes

Table columns list

Name	Table
gbtDescription	clBldgTypeHu
SbtID	clBldgTypeHu
sbtDescription	clBldgTypeHu
gbtName	clBldgTypeHu
sbtName	clBldgTypeHu
SoccDescription	clOccupancy
GoccDescription	clOccupancy
GoccName	clOccupancy
Occupancy	clOccupancy
SoccID	clOccupancy
OptValue	huAnalysisOpt
huAnalysisOpt	huAnalysisOpt
CaseID	huBldgCharCase
CaseName	huBldgCharCase
CaseDescription	huBldgCharCase
CaseID	huBldgCharTree
sbtName	huBldgCharTree
ExcludedBldgCharTypeList	huBldgCharTree
BldgChar	huBldgCharTree
CharType	huBldgCharTree
BldgCharID	huBldgCharValidity
sbtName	huBldgCharValidity
CaseID	huBldgCharValidity
bcvID	huBldgCharValidity
huBldgSchemeName	huBldgCharWt
wbID	huBldgCharWt

WtPercent	huBldgCharWt
CERBMi	huBldgCountBldgTypeB
MECBLi	huBldgCountBldgTypeB
MERBHi	huBldgCountBldgTypeB
CERBLi	huBldgCountBldgTypeB
MECBMi	huBldgCountBldgTypeB
MECBHi	huBldgCountBldgTypeB
MERBMi	huBldgCountBldgTypeB
SERBMi	huBldgCountBldgTypeB
SERBLi	huBldgCountBldgTypeB
SPMBLi	huBldgCountBldgTypeB
SERBHi	huBldgCountBldgTypeB
SECBLi	huBldgCountBldgTypeB
CERBHi	huBldgCountBldgTypeB
CECBMi	huBldgCountBldgTypeB
CECBLi	huBldgCountBldgTypeB
SPMBMi	huBldgCountBldgTypeB
CECBHi	huBldgCountBldgTypeB
SPMBSi	huBldgCountBldgTypeB
SECBMi	huBldgCountBldgTypeB
CensusBlock	huBldgCountBldgTypeB
SECBHi	huBldgCountBldgTypeB
WSF1i	huBldgCountBldgTypeB
WSF2i	huBldgCountBldgTypeB
WMUH1i	huBldgCountBldgTypeB
MH94HUDIIi	huBldgCountBldgTypeB
MH94HUDIIIi	huBldgCountBldgTypeB
MHPHUDi	huBldgCountBldgTypeB
MH94HUDIi	huBldgCountBldgTypeB
MH76HUDi	huBldgCountBldgTypeB
MERBLi	huBldgCountBldgTypeB
MLRM1i	huBldgCountBldgTypeB
MMUH3i	huBldgCountBldgTypeB
MLRM2i	huBldgCountBldgTypeB
MLRIi	huBldgCountBldgTypeB
WMUH2i	huBldgCountBldgTypeB
MSF1i	huBldgCountBldgTypeB
WMUH3i	huBldgCountBldgTypeB
MMUH2i	huBldgCountBldgTypeB
MMUH1i	huBldgCountBldgTypeB
MSF2i	huBldgCountBldgTypeB
MECBHi	huBldgCountBldgTypeT
CERBLi	huBldgCountBldgTypeT
MERBHi	huBldgCountBldgTypeT
MECBMi	huBldgCountBldgTypeT
MECBLi	huBldgCountBldgTypeT
CERBMi	huBldgCountBldgTypeT
MMUH1i	huBldgCountBldgTypeT
MMUH2i	huBldgCountBldgTypeT
MSF2i	huBldgCountBldgTypeT
MSF1i	huBldgCountBldgTypeT
MERBMi	huBldgCountBldgTypeT
MLRIi	huBldgCountBldgTypeT
MERBLi	huBldgCountBldgTypeT
MMUH3i	huBldgCountBldgTypeT
MLRM2i	huBldgCountBldgTypeT
MLRM1i	huBldgCountBldgTypeT

WMUH3i	huBldgCountBldgTypeT
SECBHi	huBldgCountBldgTypeT
SECBMi	huBldgCountBldgTypeT
MHPHUDi	huBldgCountBldgTypeT
MH76HUDi	huBldgCountBldgTypeT
SERBLi	huBldgCountBldgTypeT
SECBLi	huBldgCountBldgTypeT
SERBMi	huBldgCountBldgTypeT
SERBHi	huBldgCountBldgTypeT
CERBHi	huBldgCountBldgTypeT
CECBMi	huBldgCountBldgTypeT
CECBHi	huBldgCountBldgTypeT
CECBLi	huBldgCountBldgTypeT
MH94HUDIi	huBldgCountBldgTypeT
MH94HUDIIi	huBldgCountBldgTypeT
SPMBSi	huBldgCountBldgTypeT
MH94HUDIIIi	huBldgCountBldgTypeT
SPMBMi	huBldgCountBldgTypeT
SPMBLi	huBldgCountBldgTypeT
WMUH2i	huBldgCountBldgTypeT
WSF1i	huBldgCountBldgTypeT
WMUH1i	huBldgCountBldgTypeT
WSF2i	huBldgCountBldgTypeT
Tract	huBldgCountBldgTypeT
Value	huBldgEconBIAnnGrossSales
Occupancy	huBldgEconBIAnnGrossSales
Value	huBldgEconBIBusinessInv
Occupancy	huBldgEconBIBusinessInv
Occupancy	huBldgEconILOwnerOcc
OwnerOcc	huBldgEconILOwnerOcc
Income	huBldgEconILRecaptureFactors
OutputRecapture	huBldgEconILRecaptureFactors
Occupancy	huBldgEconILRecaptureFactors
Wage	huBldgEconILRecaptureFactors
Employment	huBldgEconILRecaptureFactors
RentalCostMonth	huBldgEconILRentalCost
DisruptionCost	huBldgEconILRentalCost
Occupancy	huBldgEconILRentalCost
RentalCostDay	huBldgEconILRentalCost
Employment	huBldgEconILWageCapIncome
WageDay	huBldgEconILWageCapIncome
OutputDay	huBldgEconILWageCapIncome
Occupancy	huBldgEconILWageCapIncome
IncomeYear	huBldgEconILWageCapIncome
IncomeDay	huBldgEconILWageCapIncome
Description	huBldgEconLossTypes
EconLossType	huBldgEconLossTypes
Occupancy	huBldgEconRTBusInterruption
CompleteDS	huBldgEconRTBusInterruption
SevereDS	huBldgEconRTBusInterruption
ModerateDS	huBldgEconRTBusInterruption
None	huBldgEconRTBusInterruption
MinorDS	huBldgEconRTBusInterruption
sbtName	huBldgMapping
BldgCharID	huBldgMapping
PercentDist	huBldgMapping

huBldgSchemeName	huBldgMapping
SchemeUpdated	huBldgMappingList
SchemeCreated	huBldgMappingList
CaseID	huBldgMappingList
Updateable	huBldgMappingList
SchemeDescription	huBldgMappingList
huBldgSchemeName	huBldgMappingList
huScenarioName	huBldgTypeResultsB
bCurrent	huBldgTypeResultsB
At Least Minor	huBldgTypeResultsB
Moderate	huBldgTypeResultsB
Minor	huBldgTypeResultsB
No Damage	huBldgTypeResultsB
Wage	huBldgTypeResultsB
Complete	huBldgTypeResultsB
At Least Moderate	huBldgTypeResultsB
At Least Severe	huBldgTypeResultsB
Severe	huBldgTypeResultsB
CensusBlock	huBldgTypeResultsB
Total	huBldgTypeResultsB
Building	huBldgTypeResultsB
Return_Period	huBldgTypeResultsB
sbtName	huBldgTypeResultsB
Rental	huBldgTypeResultsB
Income	huBldgTypeResultsB
Content	huBldgTypeResultsB
Relocation Cost	huBldgTypeResultsB
Inventory	huBldgTypeResultsB
Rental	huBldgTypeResultsT
At Least Moderate	huBldgTypeResultsT
Moderate	huBldgTypeResultsT
Severe	huBldgTypeResultsT
At Least Severe	huBldgTypeResultsT
Complete	huBldgTypeResultsT
Wage	huBldgTypeResultsT
At Least Minor	huBldgTypeResultsT
No Damage	huBldgTypeResultsT
Minor	huBldgTypeResultsT
Tract	huBldgTypeResultsT
Total	huBldgTypeResultsT
Building	huBldgTypeResultsT
Return_Period	huBldgTypeResultsT
sbtName	huBldgTypeResultsT
bCurrent	huBldgTypeResultsT
Income	huBldgTypeResultsT
huScenarioName	huBldgTypeResultsT
Content	huBldgTypeResultsT
Relocation Cost	huBldgTypeResultsT
Inventory	huBldgTypeResultsT
sbtName	huCareFlty
huBldgSchemeName	huCareFlty
CareFltyId	huCareFlty
huOccMapSchemeName	huCensusBlock
SurfaceRoughness	huCensusBlock
WindGridIndex	huCensusBlock
huBldgSchemeName	huCensusBlock
CensusBlock	huCensusBlock

Type	huDebrisAndShelterDamTypesByRP
DLType	huDebrisAndShelterDamTypesByRP
BrickAndWood	huDebrisResultsB
ConcreteAndSteel	huDebrisResultsB
Return_Period	huDebrisResultsB
CensusBlock	huDebrisResultsB
huScenarioName	huDebrisResultsB
Tree	huDebrisResultsB
bCurrent	huDebrisResultsB
TreeVolume	huDebrisResultsB
huScenarioName	huDebrisResultsT
TreeVolume	huDebrisResultsT
Tree	huDebrisResultsT
bCurrent	huDebrisResultsT
Tract	huDebrisResultsT
Return_Period	huDebrisResultsT
ConcreteAndSteel	huDebrisResultsT
BrickAndWood	huDebrisResultsT
EFClass	huEfOccMapping
Occupancy	huEfOccMapping
EocId	huEmergencyCtr
sbtName	huEmergencyCtr
huBldgSchemeName	huEmergencyCtr
WSF1i	huExposureBldgTypeB
CensusBlock	huExposureBldgTypeB
MSF2i	huExposureBldgTypeB
MECBLi	huExposureBldgTypeB
MECBMi	huExposureBldgTypeB
MERBHi	huExposureBldgTypeB
MERBMi	huExposureBldgTypeB
MH94HUDIIi	huExposureBldgTypeB
MECBHi	huExposureBldgTypeB
MH94HUDIIIi	huExposureBldgTypeB
CERBLi	huExposureBldgTypeB
MH94HUDIi	huExposureBldgTypeB
WMUH3i	huExposureBldgTypeB
MSF1i	huExposureBldgTypeB
WMUH2i	huExposureBldgTypeB
WMUH1i	huExposureBldgTypeB
MERBLi	huExposureBldgTypeB
MLRIi	huExposureBldgTypeB
MMUH3i	huExposureBldgTypeB
MLRM2i	huExposureBldgTypeB
MLRM1i	huExposureBldgTypeB
WSF2i	huExposureBldgTypeB
SPMBLi	huExposureBldgTypeB
SPMBMi	huExposureBldgTypeB
SPMBSi	huExposureBldgTypeB
SERBHi	huExposureBldgTypeB
SERBLi	huExposureBldgTypeB
SERBMi	huExposureBldgTypeB
SECBLi	huExposureBldgTypeB
MMUH2i	huExposureBldgTypeB
CERBMi	huExposureBldgTypeB
MMUH1i	huExposureBldgTypeB
CECBHi	huExposureBldgTypeB

CECBMi	huExposureBldgTypeB
CERBHi	huExposureBldgTypeB
CECBLi	huExposureBldgTypeB
MH76HUDi	huExposureBldgTypeB
SECBHi	huExposureBldgTypeB
SECBMi	huExposureBldgTypeB
MHPHUDi	huExposureBldgTypeB
WMUH2i	huExposureBldgTypeT
WMUH3i	huExposureBldgTypeT
WMUH1i	huExposureBldgTypeT
WSF2i	huExposureBldgTypeT
MMUH2i	huExposureBldgTypeT
MSF1i	huExposureBldgTypeT
MMUH1i	huExposureBldgTypeT
MSF2i	huExposureBldgTypeT
MMUH3i	huExposureBldgTypeT
MH94HUDIi	huExposureBldgTypeT
MH76HUDi	huExposureBldgTypeT
MH94HUDIIi	huExposureBldgTypeT
MH94HUDIIIi	huExposureBldgTypeT
WSF1i	huExposureBldgTypeT
Tract	huExposureBldgTypeT
MHPHUDi	huExposureBldgTypeT
SECBMi	huExposureBldgTypeT
SECBHi	huExposureBldgTypeT
SECBLi	huExposureBldgTypeT
CECBHi	huExposureBldgTypeT
SPMBSi	huExposureBldgTypeT
CECBMi	huExposureBldgTypeT
CECBLi	huExposureBldgTypeT
CERBHi	huExposureBldgTypeT
SERBMi	huExposureBldgTypeT
SERBHi	huExposureBldgTypeT
SPMBMi	huExposureBldgTypeT
SERBLi	huExposureBldgTypeT
SPMBLi	huExposureBldgTypeT
MLRM1i	huExposureBldgTypeT
MERBLi	huExposureBldgTypeT
MERBMi	huExposureBldgTypeT
MLRIi	huExposureBldgTypeT
MLRM2i	huExposureBldgTypeT
CERBMi	huExposureBldgTypeT
MECBHi	huExposureBldgTypeT
MECBMi	huExposureBldgTypeT
CERBLi	huExposureBldgTypeT
MERBHi	huExposureBldgTypeT
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MECBHi	huExposureContentBldgTypeB
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MERBLi	huExposureContentBldgTypeB
MECBLi	huExposureContentBldgTypeB
MERBHi	huExposureContentBldgTypeB
MECBMi	huExposureContentBldgTypeB
MLRIi	huExposureContentBldgTypeB
CERBLi	huExposureContentBldgTypeB
MSF2i	huExposureContentBldgTypeB
MMUH1i	huExposureContentBldgTypeB

MSF1i	huExposureContentBldgTypeB
MLRM2i	huExposureContentBldgTypeB
MLRM1i	huExposureContentBldgTypeB
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MMUH3i	huExposureContentBldgTypeB
WMUH3i	huExposureContentBldgTypeB
SECBMi	huExposureContentBldgTypeB
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SECBLi	huExposureContentBldgTypeB
SERBHi	huExposureContentBldgTypeB
MHPHUDi	huExposureContentBldgTypeB
MH94HUDIIi	huExposureContentBldgTypeB
MH76HUDi	huExposureContentBldgTypeB
MH94HUDIi	huExposureContentBldgTypeB
CERBMi	huExposureContentBldgTypeB
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SPMBMi	huExposureContentBldgTypeB
SECBHi	huExposureContentBldgTypeB
WSF1i	huExposureContentBldgTypeB
CensusBlock	huExposureContentBldgTypeB
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WSF2i	huExposureContentBldgTypeB
WMUH1i	huExposureContentBldgTypeB
MLRIi	huExposureContentBldgTypeT
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MLRM2i	huExposureContentBldgTypeT
MLRM1i	huExposureContentBldgTypeT
MMUH3i	huExposureContentBldgTypeT
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MERBMi	huExposureContentBldgTypeT
MECBLi	huExposureContentBldgTypeT
MERBHi	huExposureContentBldgTypeT
MECBHi	huExposureContentBldgTypeT
WMUH1i	huExposureContentBldgTypeT
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WSF2i	huExposureContentBldgTypeT
WSF1i	huExposureContentBldgTypeT
MMUH2i	huExposureContentBldgTypeT
MMUH1i	huExposureContentBldgTypeT
WMUH3i	huExposureContentBldgTypeT
MSF2i	huExposureContentBldgTypeT
MSF1i	huExposureContentBldgTypeT
MH94HUDIIIi	huExposureContentBldgTypeT
SECBMi	huExposureContentBldgTypeT
SECBHi	huExposureContentBldgTypeT
SECBLi	huExposureContentBldgTypeT
SERBHi	huExposureContentBldgTypeT
SERBMi	huExposureContentBldgTypeT
MH94HUDIIi	huExposureContentBldgTypeT

MHPHUDi	huExposureContentBldgTypeT
MH94HUDIi	huExposureContentBldgTypeT
MH76HUDi	huExposureContentBldgTypeT
CERBLi	huExposureContentBldgTypeT
CECBLi	huExposureContentBldgTypeT
CECBMi	huExposureContentBldgTypeT
CERBHi	huExposureContentBldgTypeT
CERBMi	huExposureContentBldgTypeT
SERBLi	huExposureContentBldgTypeT
SPMBLi	huExposureContentBldgTypeT
CECBHi	huExposureContentBldgTypeT
SPMBMi	huExposureContentBldgTypeT
SPMBSi	huExposureContentBldgTypeT
Tract	huExposureContentBldgTypeT
FireStationId	huFireStation
huBldgSchemeName	huFireStation
sbtName	huFireStation
MMUH3p	huGbsOccMapping
MMUH2p	huGbsOccMapping
MLRM1p	huGbsOccMapping
MLRM2p	huGbsOccMapping
MLRIp	huGbsOccMapping
MECBMp	huGbsOccMapping
MECBLp	huGbsOccMapping
MMUH1p	huGbsOccMapping
MSF1p	huGbsOccMapping
MSF2p	huGbsOccMapping
MECBHp	huGbsOccMapping
CERBHp	huGbsOccMapping
CECBLp	huGbsOccMapping
CECBMp	huGbsOccMapping
CERBMp	huGbsOccMapping
CERBLp	huGbsOccMapping
MERBLp	huGbsOccMapping
SPMBLp	huGbsOccMapping
MERBMp	huGbsOccMapping
CECBHp	huGbsOccMapping
SPMBMp	huGbsOccMapping
SPMBSp	huGbsOccMapping
MERBHp	huGbsOccMapping
MH94HUDIIp	huGbsOccMapping
MH94HUDIIIp	huGbsOccMapping
MH94HUDIp	huGbsOccMapping
MH76HUDp	huGbsOccMapping
huOccMapSchemeName	huGbsOccMapping
WSF2p	huGbsOccMapping
Occupancy	huGbsOccMapping
WSF1p	huGbsOccMapping
WMUH3p	huGbsOccMapping
SERBLp	huGbsOccMapping
SERBMp	huGbsOccMapping
WMUH1p	huGbsOccMapping
WMUH2p	huGbsOccMapping
MHPHUDp	huGbsOccMapping
SECBHp	huGbsOccMapping
SERBHp	huGbsOccMapping
SECBMp	huGbsOccMapping

SECBLp	huGbsOccMapping
SchemeCreated	huGbsOccMappingList
SchemeDescription	huGbsOccMappingList
CaseID	huGbsOccMappingList
SchemeUpdated	huGbsOccMappingList
Updateable	huGbsOccMappingList
huOccMapSchemeName	huGbsOccMappingList
huGenAnalysisOpt	huGenAnalysisOpt
Reserved	huGenAnalysisOpt
HU_GRIDCOL_EXTNAME	huGridProperties
HU_GRIDCOL_TYPE	huGridProperties
GridName	huGridProperties
HU_GRIDCOL_WIDTH	huGridProperties
HU_GRIDCOL_INDEX	huGridProperties
HU_GRIDCOL_CONTROL	huGridProperties
HU_GRIDCOL_EDITMODE	huGridProperties
HU_GRIDCOL_TXTCOLOR	huGridProperties
HU_GRIDCOL_INTNAME	huGridProperties
Tract	huHazardMapWindSpeed
f1000yr	huHazardMapWindSpeed
f10yr	huHazardMapWindSpeed
f20yr	huHazardMapWindSpeed
f100yr	huHazardMapWindSpeed
f50yr	huHazardMapWindSpeed
f500yr	huHazardMapWindSpeed
f200yr	huHazardMapWindSpeed
f10yr	huHazardMapWindSpeedB
f20yr	huHazardMapWindSpeedB
CensusBlock	huHazardMapWindSpeedB
f1000yr	huHazardMapWindSpeedB
f500yr	huHazardMapWindSpeedB
f50yr	huHazardMapWindSpeedB
f200yr	huHazardMapWindSpeedB
f100yr	huHazardMapWindSpeedB
ShutterCde	huInCast
ShutterType	huInCast
GarageDoors	huInCast
RollUpDoors	huInCast
GableBracing	huInCast
WindDesignCode	huInCast
DeckAttach	huInCast
RoofSheathing	huInCast
NailSpacing	huInCast
WindSpeed	huInCast
OtherDoorArea	huInCast
WindDesignYear	huInCast
WallExposure	huInCast
MHWindZone	huInCast
MHCode	huInCast
DoorProtection	huInCast
RoofPerimeter	huInCast
Protection	huInCast
MHTieDowns	huInCast
WindDebrisSource	huInCast
ShieldingHeight	huInCast
WindSpeedType	huInCast

RoofSlope	huInCast
hzIncastID	huInCast
WindShielding	huInCast
WindExposure	huInCast
Topography	huInCast
NailSize	huInCast
Glass	huInCast
Openings	huInCast
GlassConstr	huInCast
RoofCovering	huInCast
RoofShape	huInCast
FrameSpacing	huInCast
WallAnchorage	huInCast
Cladding	huInCast
bcName	huListOfBldgChar
BldgChar	huListOfBldgChar
CharType	huListOfBldgChar
bcDescription	huListOfBldgChar
BldgCharID	huListOfBldgChar
nWindChar	huListOfWindBldgTypes
CaseID	huListOfWindBldgTypes
charDescription	huListOfWindBldgTypes
sbtName	huListOfWindBldgTypes
wbID	huListOfWindBldgTypes
Complete	huOccResultsB
At Least Severe	huOccResultsB
bCurrent	huOccResultsB
huScenarioName	huOccResultsB
Severe	huOccResultsB
Moderate	huOccResultsB
At Least Moderate	huOccResultsB
No Damage	huOccResultsB
At Least Minor	huOccResultsB
Minor	huOccResultsB
CensusBlock	huOccResultsB
Total	huOccResultsB
Building	huOccResultsB
Return_Period	huOccResultsB
Occupancy	huOccResultsB
Wage	huOccResultsB
Income	huOccResultsB
Rental	huOccResultsB
Content	huOccResultsB
Relocation Cost	huOccResultsB
Inventory	huOccResultsB
Moderate	huOccResultsT
At Least Moderate	huOccResultsT
At Least Minor	huOccResultsT
Minor	huOccResultsT
No Damage	huOccResultsT
bCurrent	huOccResultsT
huScenarioName	huOccResultsT
Severe	huOccResultsT
Complete	huOccResultsT
At Least Severe	huOccResultsT
Tract	huOccResultsT
Total	huOccResultsT

Building	huOccResultsT
Return_Period	huOccResultsT
Occupancy	huOccResultsT
Wage	huOccResultsT
Income	huOccResultsT
Rental	huOccResultsT
Content	huOccResultsT
Relocation Cost	huOccResultsT
Inventory	huOccResultsT
PoliceStationId	huPoliceStation
huBldgSchemeName	huPoliceStation
sbtName	huPoliceStation
Tract	huRPWindSpeeds
wRtnP4	huRPWindSpeeds
wRtnP1	huRPWindSpeeds
wRtnP2	huRPWindSpeeds
wRtnP3	huRPWindSpeeds
wRtnP7	huRPWindSpeeds
wRtnP5	huRPWindSpeeds
wRtnP6	huRPWindSpeeds
wRtnP2	huRPWindSpeedsB
wRtnP1	huRPWindSpeedsB
CensusBlock	huRPWindSpeedsB
wRtnP6	huRPWindSpeedsB
wRtnP7	huRPWindSpeedsB
wRtnP3	huRPWindSpeedsB
wRtnP4	huRPWindSpeedsB
wRtnP5	huRPWindSpeedsB
ReportName	huReports
FileName	huReports
TabName	huReports
bAvailable	huReports
EconLossType	huResultsBldgEconOutputAndEmpOccB
Return_Period	huResultsBldgEconOutputAndEmpOccB
RES3BI	huResultsBldgEconOutputAndEmpOccB
RES1I	huResultsBldgEconOutputAndEmpOccB
RES3AI	huResultsBldgEconOutputAndEmpOccB
RES2I	huResultsBldgEconOutputAndEmpOccB
RES3CI	huResultsBldgEconOutputAndEmpOccB
IND6I	huResultsBldgEconOutputAndEmpOccB
huScenarioName	huResultsBldgEconOutputAndEmpOccB
AGR1I	huResultsBldgEconOutputAndEmpOccB
CensusBlock	huResultsBldgEconOutputAndEmpOccB
GOV2I	huResultsBldgEconOutputAndEmpOccB
EDU2I	huResultsBldgEconOutputAndEmpOccB
EDU1I	huResultsBldgEconOutputAndEmpOccB
COM8I	huResultsBldgEconOutputAndEmpOccB
IND5I	huResultsBldgEconOutputAndEmpOccB
IND4I	huResultsBldgEconOutputAndEmpOccB
COM7I	huResultsBldgEconOutputAndEmpOccB
COM6I	huResultsBldgEconOutputAndEmpOccB
COM5I	huResultsBldgEconOutputAndEmpOccB
COM10I	huResultsBldgEconOutputAndEmpOccB
COM9I	huResultsBldgEconOutputAndEmpOccB
IND3I	huResultsBldgEconOutputAndEmpOccB
IND1I	huResultsBldgEconOutputAndEmpOccB

IND2I	huResultsBldgEconOutputAndEmpOccB
RES3DI	huResultsBldgEconOutputAndEmpOccB
RES4I	huResultsBldgEconOutputAndEmpOccB
RES5I	huResultsBldgEconOutputAndEmpOccB
RES6I	huResultsBldgEconOutputAndEmpOccB
RES3FI	huResultsBldgEconOutputAndEmpOccB
RES3EI	huResultsBldgEconOutputAndEmpOccB
REL1I	huResultsBldgEconOutputAndEmpOccB
COM4I	huResultsBldgEconOutputAndEmpOccB
GOV1I	huResultsBldgEconOutputAndEmpOccB
COM1I	huResultsBldgEconOutputAndEmpOccB
COM3I	huResultsBldgEconOutputAndEmpOccB
COM2I	huResultsBldgEconOutputAndEmpOccB
Tract	huResultsBldgEconOutputAndEmpOccT
IND1I	huResultsBldgEconOutputAndEmpOccT
IND2I	huResultsBldgEconOutputAndEmpOccT
COM10I	huResultsBldgEconOutputAndEmpOccT
COM9I	huResultsBldgEconOutputAndEmpOccT
COM8I	huResultsBldgEconOutputAndEmpOccT
IND6I	huResultsBldgEconOutputAndEmpOccT
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IND3I	huResultsBldgEconOutputAndEmpOccT
IND5I	huResultsBldgEconOutputAndEmpOccT
IND4I	huResultsBldgEconOutputAndEmpOccT
REL1I	huResultsBldgEconOutputAndEmpOccT
RES5I	huResultsBldgEconOutputAndEmpOccT
RES6I	huResultsBldgEconOutputAndEmpOccT
COM1I	huResultsBldgEconOutputAndEmpOccT
RES4I	huResultsBldgEconOutputAndEmpOccT
RES3FI	huResultsBldgEconOutputAndEmpOccT
COM7I	huResultsBldgEconOutputAndEmpOccT
COM5I	huResultsBldgEconOutputAndEmpOccT
COM6I	huResultsBldgEconOutputAndEmpOccT
COM2I	huResultsBldgEconOutputAndEmpOccT
COM4I	huResultsBldgEconOutputAndEmpOccT
COM3I	huResultsBldgEconOutputAndEmpOccT
RES3EI	huResultsBldgEconOutputAndEmpOccT
RES2I	huResultsBldgEconOutputAndEmpOccT
RES3AI	huResultsBldgEconOutputAndEmpOccT
RES3BI	huResultsBldgEconOutputAndEmpOccT
Return_Period	huResultsBldgEconOutputAndEmpOccT
RES1I	huResultsBldgEconOutputAndEmpOccT
EconLossType	huResultsBldgEconOutputAndEmpOccT
GOV1I	huResultsBldgEconOutputAndEmpOccT
EDU1I	huResultsBldgEconOutputAndEmpOccT
GOV2I	huResultsBldgEconOutputAndEmpOccT
RES3CI	huResultsBldgEconOutputAndEmpOccT
huScenarioName	huResultsBldgEconOutputAndEmpOccT
RES3DI	huResultsBldgEconOutputAndEmpOccT
EDU2I	huResultsBldgEconOutputAndEmpOccT
CareFltyId	huResultsCareFlty
Return_Period	huResultsCareFlty
Complete	huResultsCareFlty
huScenarioName	huResultsCareFlty
Severe	huResultsCareFlty
Moderate	huResultsCareFlty
bCurrent	huResultsCareFlty

Minor	huResultsCareFlty
LossOfUse	huResultsCareFlty
huScenarioName	huResultsEmergCtr
Severe	huResultsEmergCtr
EocId	huResultsEmergCtr
Complete	huResultsEmergCtr
Moderate	huResultsEmergCtr
Minor	huResultsEmergCtr
Return_Period	huResultsEmergCtr
LossOfUse	huResultsEmergCtr
bCurrent	huResultsEmergCtr
FireStationId	huResultsFireStation
Moderate	huResultsFireStation
Minor	huResultsFireStation
LossOfUse	huResultsFireStation
huScenarioName	huResultsFireStation
Complete	huResultsFireStation
Severe	huResultsFireStation
bCurrent	huResultsFireStation
Return_Period	huResultsFireStation
bCurrent	huResultsPoliceStation
PoliceStationId	huResultsPoliceStation
Return_Period	huResultsPoliceStation
LossOfUse	huResultsPoliceStation
Complete	huResultsPoliceStation
huScenarioName	huResultsPoliceStation
Minor	huResultsPoliceStation
Severe	huResultsPoliceStation
Moderate	huResultsPoliceStation
bCurrent	huResultsSchool
Severe	huResultsSchool
Complete	huResultsSchool
LossOfUse	huResultsSchool
Moderate	huResultsSchool
Minor	huResultsSchool
huScenarioName	huResultsSchool
Return_Period	huResultsSchool
SchoolId	huResultsSchool
Moderate	huResultsUserDefined
Severe	huResultsUserDefined
Return_Period	huResultsUserDefined
Minor	huResultsUserDefined
bCurrent	huResultsUserDefined
Complete	huResultsUserDefined
huScenarioName	huResultsUserDefined
UserDefinedFltyId	huResultsUserDefined
RPString	huReturn Periods
Return_Period	huReturn Periods
SchoolId	huSchool
huBldgSchemeName	huSchool
sbtName	huSchool
Class	huShelterCategoryWeights
Value	huShelterCategoryWeights
Description	huShelterCategoryWeights
Value	huShelterDSProb
Description	huShelterDSProb

WeightFactor	huShelterDSProb
Value	huShelterRelModFactors
Description	huShelterRelModFactors
Class	huShelterRelModFactors
Return_Period	huShelterResultsB
DisplacedHouseHolds	huShelterResultsB
CensusBlock	huShelterResultsB
ShortTermShelterNeeds	huShelterResultsB
bCurrent	huShelterResultsB
huScenarioName	huShelterResultsB
bCurrent	huShelterResultsT
DisplacedHouseHolds	huShelterResultsT
Return_Period	huShelterResultsT
ShortTermShelterNeeds	huShelterResultsT
Tract	huShelterResultsT
huScenarioName	huShelterResultsT
MECBHi	huSqFootageBldgTypeB
MECBMi	huSqFootageBldgTypeB
MECBLi	huSqFootageBldgTypeB
CERBHi	huSqFootageBldgTypeB
CERBLi	huSqFootageBldgTypeB
CERBMi	huSqFootageBldgTypeB
CECBLi	huSqFootageBldgTypeB
MLRM1i	huSqFootageBldgTypeB
MLRM2i	huSqFootageBldgTypeB
MMUH3i	huSqFootageBldgTypeB
MERBHi	huSqFootageBldgTypeB
MERBMi	huSqFootageBldgTypeB
MLRIi	huSqFootageBldgTypeB
MERBLi	huSqFootageBldgTypeB
MMUH2i	huSqFootageBldgTypeB
SERBHi	huSqFootageBldgTypeB
SERBMi	huSqFootageBldgTypeB
SECBLi	huSqFootageBldgTypeB
SECBMi	huSqFootageBldgTypeB
SPMBMi	huSqFootageBldgTypeB
SERBLi	huSqFootageBldgTypeB
SPMBLi	huSqFootageBldgTypeB
CECBMi	huSqFootageBldgTypeB
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MH94HUDIIi	huSqFootageBldgTypeB
CECBHi	huSqFootageBldgTypeB
SECBHi	huSqFootageBldgTypeB
MHPHUDi	huSqFootageBldgTypeB
MH94HUDIi	huSqFootageBldgTypeB
MH76HUDi	huSqFootageBldgTypeB
SPMBSi	huSqFootageBldgTypeB
WMUH3i	huSqFootageBldgTypeB
WMUH2i	huSqFootageBldgTypeB
MSF1i	huSqFootageBldgTypeB
MSF2i	huSqFootageBldgTypeB
MMUH1i	huSqFootageBldgTypeB
CensusBlock	huSqFootageBldgTypeB
WMUH1i	huSqFootageBldgTypeB
WSF1i	huSqFootageBldgTypeB
WSF2i	huSqFootageBldgTypeB
WMUH3i	huSqFootageBldgTypeT

MSF1i	huSqFootageBldgTypeT
WMUH2i	huSqFootageBldgTypeT
WMUH1i	huSqFootageBldgTypeT
MMUH2i	huSqFootageBldgTypeT
MSF2i	huSqFootageBldgTypeT
MMUH1i	huSqFootageBldgTypeT
MMUH3i	huSqFootageBldgTypeT
MH94HUDIIi	huSqFootageBldgTypeT
MH94HUDIi	huSqFootageBldgTypeT
MH94HUDIIIi	huSqFootageBldgTypeT
WSF2i	huSqFootageBldgTypeT
WSF1i	huSqFootageBldgTypeT
MH76HUDi	huSqFootageBldgTypeT
Tract	huSqFootageBldgTypeT
MECBMi	huSqFootageBldgTypeT
CERBHi	huSqFootageBldgTypeT
CERBMi	huSqFootageBldgTypeT
CERBLi	huSqFootageBldgTypeT
CECBLi	huSqFootageBldgTypeT
CECBMi	huSqFootageBldgTypeT
CECBHi	huSqFootageBldgTypeT
MERBHi	huSqFootageBldgTypeT
MECBLi	huSqFootageBldgTypeT
MECBHi	huSqFootageBldgTypeT
MERBMi	huSqFootageBldgTypeT
MERBLi	huSqFootageBldgTypeT
MLRM1i	huSqFootageBldgTypeT
MHPHUDi	huSqFootageBldgTypeT
SECBHi	huSqFootageBldgTypeT
SECBMi	huSqFootageBldgTypeT
MLRIi	huSqFootageBldgTypeT
MLRM2i	huSqFootageBldgTypeT
SPMBSi	huSqFootageBldgTypeT
SPMBLi	huSqFootageBldgTypeT
SPMBMi	huSqFootageBldgTypeT
SECBLi	huSqFootageBldgTypeT
SERBHi	huSqFootageBldgTypeT
SERBLi	huSqFootageBldgTypeT
SERBMi	huSqFootageBldgTypeT
SevDamage	huSummaryDamage
ShelterDisp	huSummaryDamage
ShelterShortTerm	huSummaryDamage
ComDamage	huSummaryDamage
Tract	huSummaryDamage
GenBldgOrGenOcc	huSummaryDamage
NonDamage	huSummaryDamage
ReturnPeriod	huSummaryDamage
MinDamage	huSummaryDamage
ModDamage	huSummaryDamage
huScenarioName	huSummaryDamage
ShelterDisp	huSummaryDamageB
ComDamage	huSummaryDamageB
CensusBlock	huSummaryDamageB
ShelterShortTerm	huSummaryDamageB
huScenarioName	huSummaryDamageB
SevDamage	huSummaryDamageB

MinDamage	huSummaryDamageB
ModDamage	huSummaryDamageB
GenBldgOrGenOcc	huSummaryDamageB
NonDamage	huSummaryDamageB
ReturnPeriod	huSummaryDamageB
RelLoss	huSummaryLoss
huScenarioName	huSummaryLoss
IncLoss	huSummaryLoss
WagLoss	huSummaryLoss
RenLoss	huSummaryLoss
BuiLoss	huSummaryLoss
ReturnPeriod	huSummaryLoss
TotLoss	huSummaryLoss
InvLoss	huSummaryLoss
ConLoss	huSummaryLoss
GenBldgOrGenOcc	huSummaryLoss
Tract	huSummaryLoss
WagLoss	huSummaryLossB
RenLoss	huSummaryLossB
huScenarioName	huSummaryLossB
CensusBlock	huSummaryLossB
TotLoss	huSummaryLossB
BuiLoss	huSummaryLossB
ConLoss	huSummaryLossB
ReturnPeriod	huSummaryLossB
GenBldgOrGenOcc	huSummaryLossB
IncLoss	huSummaryLossB
InvLoss	huSummaryLossB
RelLoss	huSummaryLossB
CurrentScenario	huTemplateScenario
SurfaceRoughness	huTerrain
SRindex	huTerrain
Tract	huTerrain
CensusBlock	huTerrainB
SurfaceRoughness	huTerrainB
SRindex	huTerrainB
Tract	huTract
DistToCoast	huTract
huOccMapSchemeName	huTract
huBldgSchemeName	huTract
WindGridIndex	huTract
SurfaceRoughness	huTract
PreDomTreeType	huTreeParameters
Tract	huTreeParameters
TreeHeightGreater60	huTreeParameters
TreeHeightLess40	huTreeParameters
StemsPerAcre	huTreeParameters
TreeHeight40To60	huTreeParameters
PreDomTreeType	huTreeParametersB
StemsPerAcre	huTreeParametersB
TreeHeightLess40	huTreeParametersB
TreeHeightGreater60	huTreeParametersB
CensusBlock	huTreeParametersB
TreeHeight40To60	huTreeParametersB
UserDefinedFltyId	huUserDefinedFlty
huBldgSchemeName	huUserDefinedFlty
sbtName	huUserDefinedFlty

SchemeBase	huhzGenBldgSchemes
Updateable	huhzGenBldgSchemes
BldgSchemesId	huhzGenBldgSchemes

Table keys list

Name	Table
idtsbtName	clBldgTypeHu
idtOccupancy	clOccupancy
idtOptID	huAnalysisOpt
PK_CaseID	huBldgCharCase
idtbcvID	huBldgCharValidity
Key_2	huBldgCharWt
AK_hubmaplist_wbid	huBldgCharWt
Key_1	huBldgCountBldgTypeB
idtKey	huBldgCountBldgTypeT
PK_Occupancy	huBldgEconBIAnnGrossSales
PK_Occupancy	huBldgEconBIBusinessInv
PKOccupancy	huBldgEconILOwnerOcc
PKOccupancy	huBldgEconILRecaptureFactors
PKOccupancy	huBldgEconILRentalCost
PKOccupancy	huBldgEconILWageCapIncome
pkEconLossType	huBldgEconLossTypes
PKOccupancy	huBldgEconRTBusInterruption
Key_2	huBldgMapping
AK_bldgMapping	huBldgMapping
idthuBldgSchemeName	huBldgMappingList
AK1_BlockBldgRltsB	huBldgTypeResultsB
Key_2	huBldgTypeResultsB
AK_TractBldgDamRlts	huBldgTypeResultsT
Key_2	huBldgTypeResultsT
idtKey	huCareFlty
idtKey	huCensusBlock
idtDLType	huDebrisAndShelterDamTypesByRP
AKshltrltsb	huDebrisResultsB
Key_2	huDebrisResultsB
AKdbrrlts	huDebrisResultsT
Key_2	huDebrisResultsT
PKEFClass	huEfOccMapping
idtKey	huEmergencyCtr
Key_1	huExposureBldgTypeB
idtKey	huExposureBldgTypeT
idtKey	huExposureContentBldgTypeB
idtKey	huExposureContentBldgTypeT
idtKey	huFireStation
Key_2	huGbsOccMapping
AK_OccMapping	huGbsOccMapping
idthuOccMapSchemeName	huGbsOccMappingList
idtGenOptID	huGenAnalysisOpt
idtHazardMapWSKey	huHazardMapWindSpeed
idtHazardMapWSKey	huHazardMapWindSpeedB
idtBldgCharID	huListOfBldgChar
idtwbID	huListOfWindBldgTypes
AK1_BlockOccRlts	huOccResultsB
Key_2	huOccResultsB
Key_2	huOccResultsT

AK1_TractOccDamRlts	huOccResultsT
idtKey	huPoliceStation
idtKey	huRPWindSpeeds
idtKey	huRPWindSpeedsB
idtKey	huResultsBldgEconOutputAndEmpOccB
idtKey	huResultsBldgEconOutputAndEmpOccT
idtKey	huResultsCareFlty
idtKey	huResultsEmergCtr
idtKey	huResultsFireStation
idtKey	huResultsPoliceStation
idtKey	huResultsSchool
idtKey	huResultsUserDefined
idtReturnPeriod	huReturn Periods
idtKey	huSchool
PKClass	huShelterCategoryWeights
PKWeightFactor	huShelterDSProb
PKClass	huShelterRelModFactors
AKdbrrltsb	huShelterResultsB
Key_2	huShelterResultsB
Key_2	huShelterResultsT
AKshltrlts	huShelterResultsT
idtKey	huSqFootageBldgTypeB
idtKey	huSqFootageBldgTypeT
Key_2	huSummaryDamage
AK_huSumDam	huSummaryDamage
AK_huSumDamB	huSummaryDamageB
Key_2	huSummaryLoss
AK_huSumLoss	huSummaryLoss
AK_huSumLossB	huSummaryLossB
Key_2	huSummaryLossB
Key_1	huTemplateScenario
idtKey	huTerrain
idtKey	huTerrainB
idtKey	huTract
PK_tract	huTreeParameters
PK_block	huTreeParametersB
idtKey	huUserDefinedFlty
idtKey	huhzGenBldgSchemes

Table indexes list

Name	Unique	Cluster	Primary	Foreign Key	Alternate Key	Table
huSpecBT_PK	TRUE	FALSE	TRUE	FALSE	FALSE	clBldgTypeHu
clSBSocchz_PK	TRUE	FALSE	TRUE	FALSE	FALSE	clOccupancy
huAnalysisOpt_PK	TRUE	FALSE	TRUE	FALSE	FALSE	huAnalysisOpt
idtCaseID	FALSE	FALSE	FALSE	FALSE	FALSE	huBldgCharCase
RLNHUSBT_HUBCV_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huBldgCharValidity
RLNHULOBC_HUBCV_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huBldgCharValidity
RLNHULOWBT_HUBCW_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huBldgCharWt
RLNHUBCSL_HUBCW_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huBldgCharWt
RLNBLOCK_BCOUNTGBT_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huBldgCountBldgTypeB
RLNTRACT_BCOUNTBT_FK	TRUE	FALSE	FALSE	TRUE	FALSE	huBldgCountBldgTypeT
idtOccupancy	FALSE	FALSE	FALSE	FALSE	FALSE	huBldgEconBIAnnGrossSales
idtOccupancy	FALSE	FALSE	FALSE	FALSE	FALSE	huBldgEconBIBusinessInv
idtOccupancy	TRUE	FALSE	TRUE	FALSE	FALSE	huBldgEconILOwnerOcc

idtOccupancy	TRUE	FALSE	TRUE	FALSE	FALSE	huBldgEconILRecaptureFactors
idtOccupancy	TRUE	FALSE	TRUE	FALSE	FALSE	huBldgEconILRentalCost
idtOccupancy	TRUE	FALSE	TRUE	FALSE	FALSE	huBldgEconILWageCapIncome
idtEconLossType	TRUE	FALSE	TRUE	FALSE	FALSE	huBldgEconLossTypes
idtOccupancy	TRUE	FALSE	TRUE	FALSE	FALSE	huBldgEconRTBusInterruption
RLNHUBCSL_BLDGCHAR_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huBldgMapping
RLNHUSBT_BLDGCHAR_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huBldgMapping
RLNHULOBC_BCD_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huBldgMapping
huBldgCharSchemeList_PK	TRUE	FALSE	TRUE	FALSE	FALSE	huBldgMappingList
RLNHUBT_HURLTBTB_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huBldgTypeResultsB
RLNRP_BLDRLTSB_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huBldgTypeResultsB
RLNBLOCK_HUGBTRLTSDETR_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huBldgTypeResultsB
RLNHUBT_HURLTSBT_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huBldgTypeResultsT
RLNTRACT_HUGBRLTSDETR_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huBldgTypeResultsT
RLNRP_BLDRLTS_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huBldgTypeResultsT
rlncare_hu	FALSE	FALSE	FALSE	TRUE	FALSE	huCareFlty
RLNHUBML_HUCARE_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huCareFlty
RLNHUSBT_CF_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huCareFlty
RLNHUBLOCK_HUBCSLB_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huCensusBlock
RLNHZCENBL_HUCENBL_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huCensusBlock
RLNCB_HUGBSOCCMAPLISTB_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huCensusBlock
huDebrisAndShelterDamTypesByRP_PK	TRUE	FALSE	TRUE	FALSE	FALSE	huDebrisAndShelterDamTypesByRP
RLNBLOCK_RP_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huDebrisResultsB
RLNBLOCK_HUDEBRISRLTS_FK	TRUE	FALSE	FALSE	TRUE	FALSE	huDebrisResultsB
RLNTRACT_RP_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huDebrisResultsT
RLNTRACT_HUDEBRISRLTS_FK	TRUE	FALSE	FALSE	TRUE	FALSE	huDebrisResultsT
idtEFClass	TRUE	FALSE	TRUE	FALSE	FALSE	huEfOccMapping
RLNHUSBT_EC_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huEmergencyCtr
RLNHUBML_HUEC_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huEmergencyCtr
RLNEOCS_HU_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huEmergencyCtr
RLNBLOCK_HUEXPBT_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huExposureBldgTypeB
RLNTRACT_HUEXPBT_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huExposureBldgTypeT
RLNTRACT_HUEXPBT_FK	FALSE	FALSE	FALSE	FALSE	FALSE	huExposureContentBldgTypeB
RLNTRACT_HUEXPBT_FK	FALSE	FALSE	FALSE	FALSE	FALSE	huExposureContentBldgTypeT
RLNHZFIRESTAT_HU_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huFireStation
RLNHUBML_HUFS_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huFireStation
RLNHUSBT_FS_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huFireStation
RLNSOCCMappingList_HUGBSOM	FALSE	FALSE	FALSE	TRUE	FALSE	huGbsOccMapping
RLNSOCC_HUGBSOM_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huGbsOccMapping
idthuOccMapSchemeName	TRUE	FALSE	TRUE	FALSE	FALSE	huGbsOccMappingList
huGenAnalysisOpt_PK	TRUE	FALSE	TRUE	FALSE	FALSE	huGenAnalysisOpt
idtTract_HazardMapWS	TRUE	FALSE	TRUE	FALSE	FALSE	huHazardMapWindSpeed
idtBlock_HazardMapWS	TRUE	FALSE	TRUE	FALSE	FALSE	huHazardMapWindSpeedB
huBldgChar_PK	TRUE	FALSE	TRUE	FALSE	FALSE	huListOfBldgChar
RLNHUSBT_HULOWBT_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huListOfWindBldgTypes
huListOfWindBldgTypes_PK	TRUE	FALSE	TRUE	FALSE	FALSE	huListOfWindBldgTypes
RLNHUOCC_HURLTSDETRB_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huOccResultsB
RLNRP_OCCRLTSB_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huOccResultsB
RLNBLOCK_HUSOCCRLTSDETR_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huOccResultsB
RLNHUOCC_HURLTSDETR_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huOccResultsT
RLNRP_OCCRLTS_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huOccResultsT

RLNTRACT_HUSOCCRLTSDETR_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huOccResultsT
RLNHUSBT_PS_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huPoliceStation
RLNPOLICE_HU_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huPoliceStation
RLNHUBML_HUPS_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huPoliceStation
idtTract_RPwindSpeeds	FALSE	FALSE	FALSE	TRUE	FALSE	huRPWindSpeeds
idtBlock_RPwindSpeeds	FALSE	FALSE	FALSE	FALSE	FALSE	huRPWindSpeedsB
idtReturn_Period	FALSE	FALSE	FALSE	TRUE	FALSE	huResultsBldgEconOutputAndEmpOccB
idtBlock	FALSE	FALSE	FALSE	TRUE	FALSE	huResultsBldgEconOutputAndEmpOccB
idtEconLossType	FALSE	FALSE	FALSE	TRUE	FALSE	huResultsBldgEconOutputAndEmpOccB
idtTract	FALSE	FALSE	FALSE	TRUE	FALSE	huResultsBldgEconOutputAndEmpOccT
idtReturn_Period	FALSE	FALSE	FALSE	TRUE	FALSE	huResultsBldgEconOutputAndEmpOccT
idtEconLossType	FALSE	FALSE	FALSE	TRUE	FALSE	huResultsBldgEconOutputAndEmpOccT
RLNHZCF_HURLTSCF2_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huResultsCareFlty
RLNHURP_RLTSCF2_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huResultsCareFlty
RLNHZEC_HURLTSEC2_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huResultsEmergCtr
RLNHURP_RLTSEC2_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huResultsEmergCtr
RLNHURP_RLTSFS2_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huResultsFireStation
RLNHZFS_HURLTSFS2_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huResultsFireStation
RLNHZPC_HURLTSPC2_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huResultsPoliceStation
RLNHURP_RLTSPS2_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huResultsPoliceStation
RLNHZSC_HURLTSSC2_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huResultsSchool
RLNHURP_RLTSSCH2_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huResultsSchool
RLNHZUD_HURLTSUD2_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huResultsUserDefined
RLNHURP_RLTSUD2_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huResultsUserDefined
Return_Periods_PK	TRUE	FALSE	TRUE	FALSE	FALSE	huReturn Periods
RLNHUSBT_SCH_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huSchool
RLNHUBML_HUSCH_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huSchool
RLNSCHOOL_HU_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huSchool
idtClass	TRUE	FALSE	TRUE	FALSE	FALSE	huShelterCategoryWeights
idtWeightFactor	TRUE	FALSE	TRUE	FALSE	FALSE	huShelterDSProb
idtClass	TRUE	FALSE	TRUE	FALSE	FALSE	huShelterRelModFactors
RLNBLOCK_RP_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huShelterResultsB
RLNBLOCK_HUSHELTERRLTS_FK	TRUE	FALSE	FALSE	TRUE	FALSE	huShelterResultsB
RLNTRACT_HUSHELTERRLTS_FK	TRUE	FALSE	FALSE	TRUE	FALSE	huShelterResultsT
RLNTRACT_RP_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huShelterResultsT
RLNBLOCK_HUSQFB_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huSqFootageBldgTypeB
RLNTRACT_HUSQFT_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huSqFootageBldgTypeT
RLNTRACT_SUMLOSS_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huSummaryDamage
RLNBLOCK_SUMLOSS_FK	TRUE	FALSE	TRUE	FALSE	FALSE	huSummaryDamageB
RLNTRACT_SUMDAM_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huSummaryLoss
RLNBLOCK_SUMDAM_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huSummaryLossB
RLNTRACT_HUZO_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huTerrain
RLNBlock_HUZO_FK	FALSE	FALSE	FALSE	FALSE	FALSE	huTerrainB
Index_4	FALSE	FALSE	FALSE	FALSE	FALSE	huTract
idthuOccMappingList	FALSE	FALSE	FALSE	TRUE	FALSE	huTract
idthuBldgMappingList	FALSE	FALSE	FALSE	TRUE	FALSE	huTract
RLNTRACT_HU_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huTract
idtTract	TRUE	FALSE	TRUE	FALSE	FALSE	huTreeParameters
idtBlock	TRUE	FALSE	TRUE	FALSE	FALSE	huTreeParametersB

RLNHZUD_HUUD_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huUserDefinedFlty
RLNHUBML_HUUD_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huUserDefinedFlty
RLNHUSBT_HUUD_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huUserDefinedFlty
RLNHZGOM_HUGOM_FK	FALSE	FALSE	FALSE	TRUE	FALSE	huhzGenBldgSchemes

Reference list

Name	Parent Table	Child Table
RLNHUSBT_HUBCV	clBldgTypeHu	huBldgCharValidity
RLNHUSBT_BLDGCHAR	clBldgTypeHu	huBldgMapping
RLNHUBT_HURLTBTB	clBldgTypeHu	huBldgTypeResultsB
RLNHUBT_HURLTSBT	clBldgTypeHu	huBldgTypeResultsT
RLNHUSBT_CF	clBldgTypeHu	huCareFlty
RLNHUSBT_EC	clBldgTypeHu	huEmergencyCtr
RLNHUSBT_FS	clBldgTypeHu	huFireStation
RLNHUSBT_HULOWBT	clBldgTypeHu	huListOfWindBldgTypes
RLNHUSBT_PS	clBldgTypeHu	huPoliceStation
RLNHUSBT_SCH	clBldgTypeHu	huSchool
RLNHUSBT_HUUD	clBldgTypeHu	huUserDefinedFlty
rlnhuEfOccMapping	clEF	huEfOccMapping
RLNOCC_BEOWNEROCC	clOccupancy	huBldgEconILOwnerOcc
RLNOCC_BERECAPTUREFACTORS	clOccupancy	huBldgEconILRecaptureFactors
RLNOCC_BERENTALCOST	clOccupancy	huBldgEconILRentalCost
RLNOCC_BEWAGECAPINCOME	clOccupancy	huBldgEconILWageCapIncome
RLNOCC_BEBUSINT	clOccupancy	huBldgEconRTBusInterruption
RLNSOCC_HUGBSOM	clOccupancy	huGbsOccMapping
RLNHUOCC_HURLTSDETRB	clOccupancy	huOccResultsB
RLNHUOCC_HURLTSDETR	clOccupancy	huOccResultsT
rlncharcase_charvalid	huBldgCharCase	huBldgCharValidity
rln2BldgEconLossTypes_BldgEconOutputEmp	huBldgEconLossTypes	huResultsBldgEconOutputAndEmpOccB
rlnBldgEconLossTypes_BldgEconOutputEmp	huBldgEconLossTypes	huResultsBldgEconOutputAndEmpOccT
RLNHUBCSL_HUBCWT	huBldgMappingList	huBldgCharWt
RLNHUBCSL_BLDGCHART	huBldgMappingList	huBldgMapping
RLNHUBML_HUCARE	huBldgMappingList	huCareFlty
RLNHUBLOCK_HUBCSLB	huBldgMappingList	huCensusBlock
RLNHUBML_HUEC	huBldgMappingList	huEmergencyCtr
RLNHUBML_HUFS	huBldgMappingList	huFireStation
RLNHUBML_HUPS	huBldgMappingList	huPoliceStation
RLNHUBML_HUSCH	huBldgMappingList	huSchool
RLNHUTRACT_HUBCSL	huBldgMappingList	huTract
RLNHUBML_HUUD	huBldgMappingList	huUserDefinedFlty
RLNCB_HUGBSOCCMAPLISTB	huGbsOccMappingList	huCensusBlock
RLNHUGBSOML_HUGBSOMT	huGbsOccMappingList	huGbsOccMapping
RLNTRACT_HUGBSOMLT	huGbsOccMappingList	huTract
RLNHULOBC_HUBCV	huListOfBldgChar	huBldgCharValidity
RLNHULOBC_BCD	huListOfBldgChar	huBldgMapping
RLNHULOWBT_HUBCW	huListOfWindBldgTypes	huBldgCharWt
RLNRP_BLDRLTSB	huReturn Periods	huBldgTypeResultsB
RLNRP_BLDRLTS	huReturn Periods	huBldgTypeResultsT
RLNRP_DEBRISRLTSB	huReturn Periods	huDebrisResultsB
RLNRP_DEBRISRLTS	huReturn Periods	huDebrisResultsT
RLNRP_OCCRLTSB	huReturn Periods	huOccResultsB
RLNRP_OCCRLTS	huReturn Periods	huOccResultsT
rln2ReturnPeriod_BldgEconOutputEmp	huReturn Periods	huResultsBldgEconOutputAndEmpOccB

rlnReturnPeriod_BldgEconOutputEmp	huReturn Periods	huResultsBldgEconOutputAndEmpOccT
RLNHURP_RLTSCF	huReturn Periods	huResultsCareFlty
RLNHURP_RLTSEC	huReturn Periods	huResultsEmergCtr
RLNHURP_RLTSFS	huReturn Periods	huResultsFireStation
RLNHURP_RLTSPS	huReturn Periods	huResultsPoliceStation
RLNHURP_RLTSSCH	huReturn Periods	huResultsSchool
RLNHURP_RLTSUD	huReturn Periods	huResultsUserDefined
RLNRP_SHELTERRLTSB	huReturn Periods	huShelterResultsB
RLNRP_SHELTERRLTS	huReturn Periods	huShelterResultsT
RLNCARE_HU	hzCareFlty	huCareFlty
RLNHZCF_HURLTSCF	hzCareFlty	huResultsCareFlty
RLNBLOCK_HUGBTRLTSDETR	hzCensusBlock	huBldgTypeResultsB
RLNHZCENBL_HUCENBL	hzCensusBlock	huCensusBlock
RLNBLOCK_HUDEBRISRLTS	hzCensusBlock	huDebrisResultsB
RLNBLOCK_HUEXPCONTENTBT	hzCensusBlock	huExposureContentBldgTypeB
RLNBlock_HAZARDMAPWS	hzCensusBlock	huHazardMapWindSpeedB
RLNBLOCK_HUSOCCRLTSDETR	hzCensusBlock	huOccResultsB
rlnblock_rpwindSpeeds	hzCensusBlock	huRPWindSpeedsB
rlnBlock_2BldgEconOutputEmp	hzCensusBlock	huResultsBldgEconOutputAndEmpOccB
RLNBLOCK_HUSHELTERRLTS	hzCensusBlock	huShelterResultsB
rlnblock_husqfb	hzCensusBlock	huSqFootageBldgTypeB
RLNBLOCK_SUMLOSS	hzCensusBlock	huSummaryLossB
RLNBLOCK_HUTERR	hzCensusBlock	huTerrainB
rlnBlock_treeparam	hzCensusBlock	huTreeParametersB
RLNEOCS_HU	hzEmergencyCtr	huEmergencyCtr
RLNHZEC_HURLTSEC	hzEmergencyCtr	huResultsEmergCtr
RLNHZFIRESTAT_HU	hzFireStation	huFireStation
RLNHZFS_HURLTSFS	hzFireStation	huResultsFireStation
RLNHZGOM_HUGOM	hzGenBldgSchemes	huhzGenBldgSchemes
RLNHZPC_HURLTSPC	hzPoliceStation	huResultsPoliceStation
RLNHZSC_HURLTSSC	hzSchool	huResultsSchool
RLNSCHOOL_HU	hzSchool	huSchool
RLNTRACT_HUBCOUNTBT	hzTract	huBldgCountBldgTypeT
RLNTRACT_HUGBRLTSDETR	hzTract	huBldgTypeResultsT
RLNTRACT_HUDEBRISRLTS	hzTract	huDebrisResultsT
RLNTRACT_HUEXPBT	hzTract	huExposureBldgTypeT
RLNTRACT_HUEXPCONTBT	hzTract	huExposureContentBldgTypeT
RLNTRACT_HUSOCCRLTSDETR	hzTract	huOccResultsT
RLNTRACT_RPWINDSPEEDS	hzTract	huRPWindSpeeds
rlnTract_BldgEconOutputEmp	hzTract	huResultsBldgEconOutputAndEmpOccT
RLNTRACT_HUSHELTERRLTS	hzTract	huShelterResultsT
rlntract_husqft	hzTract	huSqFootageBldgTypeT
RLNTRACT_HUTERR	hzTract	huTerrain
RLNTRACT_HU	hzTract	huTract
rlntract_treeparam	hzTract	huTreeParameters
RLNTRACT_BCOUNT	hzTract	hzBldgCountOccupT
RLNHZUD_HURLTSUD	hzUserDefinedFlty	huResultsUserDefined
RLNHZUD_HUUD	hzUserDefinedFlty	huUserDefinedFlty

Table information

High level table information

Table clOccupancy

Card of the table clOccupancy

Name	clOccupancy
Code	clOccupancy
DBMS	Microsoft SQL Server 2000

Constraint name of table clOccupancy

CKT_CLOCCUPANCY

Column list of the table clOccupancy

Name	Code
GoccDescription	GoccDescription
GoccName	GoccName
Occupancy	Occupancy
SoccDescription	SoccDescription
SoccID	SoccID

Column Occupancy of table clOccupancy

Card of the column Occupancy of the table clOccupancy

Name	Occupancy
Code	Occupancy
Data Type	char(5)
Mandatory	TRUE

Standard check of column Occupancy of table clOccupancy

Low value	
High value	
Default value	
Unit	
Format	
Upper case	TRUE
Lower case	FALSE
Cannot modify	FALSE
List of values	RES1 RES2 RES3A RES3B RES3C RES3D RES3E RES3F RES4 RES5 RES6 COM1 COM2 COM3

	COM4 COM5 COM6 COM7 COM8 COM9 COM10 IND1 IND2 IND3 IND4 IND5 IND6 AGR1 REL1 GOV1 GOV2 EDU1 EDU2

Constraint name of column Occupancy of table clOccupancy

CKC_OCCUPANCY_CLOCCUPA

Column GoccName of table clOccupancy

Card of the column GoccName of the table clOccupancy

Name	GoccName
Code	GoccName
Data Type	varchar(20)
Mandatory	FALSE

Standard check of column GoccName of table clOccupancy

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column GoccName of table clOccupancy

CKC_GOCCNAME_CLOCCUPA

Column SoccDescription of table clOccupancy

Card of the column SoccDescription of the table clOccupancy

Name	SoccDescription
Code	SoccDescription
Data Type	char(100)
Mandatory	TRUE

Standard check of column SoccDescription of table clOccupancy

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SoccDescription of table clOccupancy

CKC_SOCCDESCRIPTION_CLOCCUPA

Column GoccDescription of table clOccupancy

Card of the column GoccDescription of the table clOccupancy

Name	GoccDescription
Code	GoccDescription
Data Type	char(100)
Mandatory	FALSE

Standard check of column GoccDescription of table clOccupancy

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column GoccDescription of table clOccupancy

CKC_GOCCDESCRIPTION_CLOCCUPA

Column SoccID of table clOccupancy

Card of the column SoccID of the table clOccupancy

Name	SoccID
Code	SoccID
Data Type	smallint
Mandatory	FALSE

Standard check of column SoccID of table clOccupancy

Low value	
High value	
Default value	
Unit	
Format	

Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SoccID of table clOccupancy

CKC_SOCCID_CLOCCUPA

Key list of the table clOccupancy

Name	Code
idtOccupancy	idtOccupancy

Key idtOccupancy of table clOccupancy

Card of the key idtOccupancy of the table clOccupancy

Name	idtOccupancy
Code	idtOccupancy
Table	clOccupancy

Column list of the key idtOccupancy

Name	Code
Occupancy	Occupancy

Code preview of idtOccupancy

```
alter table clOccupancy
   drop constraint PK_CLOCCUPANCY
go
```

Index list of the table clOccupancy

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
clSBSocchz_PK	clSBSocchz_PK	TRUE	FALSE	TRUE	FALSE	FALSE

Index clSBSocchz_PK of table clOccupancy

Card of the index clSBSocchz_PK of the table clOccupancy

Name	clSBSocchz_PK
Code	clSBSocchz_PK
Unique	TRUE
Cluster	FALSE
Primary	TRUE
Foreign Key	FALSE
Alternate Key	FALSE
Table	clOccupancy

Column list of the index clSBSocchz_PK

Name	Code	Sort
Occupancy	Occupancy	Ascending

Code preview of clSBSocchz_PK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table clOccupancy

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram
Main CDM Diagram	Main CDM Diagram
Main CDM Diagram	Main CDM Diagram

Code preview of clOccupancy

```
if exists (select 1
          from  sysobjects
         where  id = object_id('clOccupancy')
          and   type = 'U')
   drop table clOccupancy
go


/*==============================================================*/
/* Table: clOccupancy                                           */
/*==============================================================*/
create table clOccupancy (
Occupancy           char(5)             not null
    constraint CKC_OCCUPANCY_CLOCCUPA check (Occupancy in
('RES1','RES2','RES3A','RES3B','RES3C','RES3D','RES3E','RES3F','RES4','RES5','RES6','COM1','COM2','COM3','COM4','COM5','
COM6','COM7','COM8','COM9','COM10','IND1','IND2','IND3','IND4','IND5','IND6','AGR1','REL1','GOV1','GOV2','EDU1','EDU2'))
,
GoccName            varchar(20)         null,
SoccDescription     char(100)           not null,
GoccDescription     char(100)           null,
SoccID              smallint            null,
constraint PK_CLOCCUPANCY primary key  (Occupancy)
)
go
```

Table huAnalysisOpt

Card of the table huAnalysisOpt

Name	huAnalysisOpt
Code	huAnalysisOpt
DBMS	Microsoft SQL Server 2000

Constraint name of table huAnalysisOpt

CKT_HUANALYSISOPT

Column list of the table huAnalysisOpt

Name	Code
OptValue	OptValue
huAnalysisOpt	huAnalysisOpt

Column huAnalysisOpt of table huAnalysisOpt

Card of the column huAnalysisOpt of the table huAnalysisOpt

Name	huAnalysisOpt
Code	huAnalysisOpt
Data Type	varchar(10)
Mandatory	TRUE

Standard check of column huAnalysisOpt of table huAnalysisOpt

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column huAnalysisOpt of table huAnalysisOpt

CKC_HUANALYSISOPT_HUANALYS

Column OptValue of table huAnalysisOpt

Card of the column OptValue of the table huAnalysisOpt

Name	OptValue
Code	OptValue
Data Type	smallint
Mandatory	FALSE

Standard check of column OptValue of table huAnalysisOpt

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column OptValue of table huAnalysisOpt

CKC_OPTVALUE_HUANALYS

Key list of the table huAnalysisOpt

Name	Code
idtOptID	idtOptID

Key idtOptID of table huAnalysisOpt

Card of the key idtOptID of the table huAnalysisOpt

Name	idtOptID
Code	idtOptID
Table	huAnalysisOpt

Column list of the key idtOptID

Name	Code
huAnalysisOpt	huAnalysisOpt

Code preview of idtOptID

```
alter table huAnalysisOpt
   drop constraint PK_HUANALYSISOPT
go
```

Index list of the table huAnalysisOpt

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
huAnalysisOpt_PK	huAnalysisOpt_PK	TRUE	FALSE	TRUE	FALSE	FALSE

Index huAnalysisOpt_PK of table huAnalysisOpt

Card of the index huAnalysisOpt_PK of the table huAnalysisOpt

Name	huAnalysisOpt_PK
Code	huAnalysisOpt_PK
Unique	TRUE
Cluster	FALSE
Primary	TRUE
Foreign Key	FALSE
Alternate Key	FALSE
Table	huAnalysisOpt

Column list of the index huAnalysisOpt_PK

Name	Code	Sort
huAnalysisOpt	huAnalysisOpt	Ascending

Code preview of huAnalysisOpt_PK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huAnalysisOpt

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huAnalysisOpt

```
if exists (select 1
          from  sysobjects
         where  id = object_id('huAnalysisOpt')
          and   type = 'U')
```

```
   drop table huAnalysisOpt
go


/*==============================================================*/
/* Table: huAnalysisOpt                                         */
/*==============================================================*/
create table huAnalysisOpt (
huAnalysisOpt        varchar(10)          not null,
OptValue             smallint             null,
constraint PK_HUANALYSISOPT primary key  (huAnalysisOpt)
)
go
```

Table huExposureBldgTypeB

Card of the table huExposureBldgTypeB

Name	huExposureBldgTypeB
Code	huExposureBldgTypeB
DBMS	Microsoft SQL Server 2000

Constraint name of table huExposureBldgTypeB

CKT_HUEXPOSUREBLDGTYPEB

Column list of the table huExposureBldgTypeB

Name	Code
CECBHi	CECBHi
CECBLi	CECBLi
CECBMi	CECBMi
CERBHi	CERBHi
CERBLi	CERBLi
CERBMi	CERBMi
CensusBlock	CensusBlock
MECBHi	MECBHi
MECBLi	MECBLi
MECBMi	MECBMi
MERBHi	MERBHi
MERBLi	MERBLi
MERBMi	MERBMi
MH76HUDi	MH76HUDi
MH94HUDIIIi	MH94HUDIIIi
MH94HUDIIi	MH94HUDIIi
MH94HUDIi	MH94HUDIi
MHPHUDi	MHPHUDi
MLRIi	MLRIi
MLRM1i	MLRM1i
MLRM2i	MLRM2i
MMUH1i	MMUH1i
MMUH2i	MMUH2i
MMUH3i	MMUH3i
MSF1i	MSF1i
MSF2i	MSF2i
SECBHi	SECBHi
SECBLi	SECBLi
SECBMi	SECBMi

SERBHi	SERBHi
SERBLi	SERBLi
SERBMi	SERBMi
SPMBLi	SPMBLi
SPMBMi	SPMBMi
SPMBSi	SPMBSi
WMUH1i	WMUH1i
WMUH2i	WMUH2i
WMUH3i	WMUH3i
WSF1i	WSF1i
WSF2i	WSF2i

Column CensusBlock of table huExposureBldgTypeB

Card of the column CensusBlock of the table huExposureBldgTypeB

Name	CensusBlock
Code	CensusBlock
Data Type	char(15)
Mandatory	TRUE

Standard check of column CensusBlock of table huExposureBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CensusBlock of table huExposureBldgTypeB

CKC_CENSUSBLOCK_HUEXPOSU

Column WSF1i of table huExposureBldgTypeB

Card of the column WSF1i of the table huExposureBldgTypeB

Name	WSF1i
Code	WSF1i
Data Type	int
Mandatory	FALSE

Standard check of column WSF1i of table huExposureBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE

Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WSF1i of table huExposureBldgTypeB

CKC_WSF1I_HUEXPOSU

Column WSF2i of table huExposureBldgTypeB

Card of the column WSF2i of the table huExposureBldgTypeB

Name	WSF2i
Code	WSF2i
Data Type	int
Mandatory	FALSE

Standard check of column WSF2i of table huExposureBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WSF2i of table huExposureBldgTypeB

CKC_WSF2I_HUEXPOSU

Column WMUH1i of table huExposureBldgTypeB

Card of the column WMUH1i of the table huExposureBldgTypeB

Name	WMUH1i
Code	WMUH1i
Data Type	int
Mandatory	FALSE

Standard check of column WMUH1i of table huExposureBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WMUH1i of table huExposureBldgTypeB

CKC_WMUH1I_HUEXPOSU

Column WMUH2i of table huExposureBldgTypeB

Card of the column WMUH2i of the table huExposureBldgTypeB

Name	WMUH2i
Code	WMUH2i
Data Type	int
Mandatory	FALSE

Standard check of column WMUH2i of table huExposureBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WMUH2i of table huExposureBldgTypeB

CKC_WMUH2I_HUEXPOSU

Column WMUH3i of table huExposureBldgTypeB

Card of the column WMUH3i of the table huExposureBldgTypeB

Name	WMUH3i
Code	WMUH3i
Data Type	int
Mandatory	FALSE

Standard check of column WMUH3i of table huExposureBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WMUH3i of table huExposureBldgTypeB

CKC_WMUH3I_HUEXPOSU

Column MSF1i of table huExposureBldgTypeB

Card of the column MSF1i of the table huExposureBldgTypeB

Name	MSF1i
Code	MSF1i
Data Type	int
Mandatory	FALSE

Standard check of column MSF1i of table huExposureBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MSF1i of table huExposureBldgTypeB

CKC_MSF1I_HUEXPOSU

Column MSF2i of table huExposureBldgTypeB

Card of the column MSF2i of the table huExposureBldgTypeB

Name	MSF2i
Code	MSF2i
Data Type	int
Mandatory	FALSE

Standard check of column MSF2i of table huExposureBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MSF2i of table huExposureBldgTypeB

CKC_MSF2I_HUEXPOSU

Column MMUH1i of table huExposureBldgTypeB

Card of the column MMUH1i of the table huExposureBldgTypeB

Name	MMUH1i
Code	MMUH1i
Data Type	int
Mandatory	FALSE

Standard check of column MMUH1i of table huExposureBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MMUH1i of table huExposureBldgTypeB

CKC_MMUH1I_HUEXPOSU

Column MMUH2i of table huExposureBldgTypeB

Card of the column MMUH2i of the table huExposureBldgTypeB

Name	MMUH2i
Code	MMUH2i
Data Type	int
Mandatory	FALSE

Standard check of column MMUH2i of table huExposureBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MMUH2i of table huExposureBldgTypeB

CKC_MMUH2I_HUEXPOSU

Column MMUH3i of table huExposureBldgTypeB

Card of the column MMUH3i of the table huExposureBldgTypeB

Name	MMUH3i
Code	MMUH3i
Data Type	int
Mandatory	FALSE

Standard check of column MMUH3i of table huExposureBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	

Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MMUH3i of table huExposureBldgTypeB

CKC_MMUH3I_HUEXPOSU

Column MLRM1i of table huExposureBldgTypeB

Card of the column MLRM1i of the table huExposureBldgTypeB

Name	MLRM1i
Code	MLRM1i
Data Type	int
Mandatory	FALSE

Standard check of column MLRM1i of table huExposureBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MLRM1i of table huExposureBldgTypeB

CKC_MLRM1I_HUEXPOSU

Column MLRM2i of table huExposureBldgTypeB

Card of the column MLRM2i of the table huExposureBldgTypeB

Name	MLRM2i
Code	MLRM2i
Data Type	int
Mandatory	FALSE

Standard check of column MLRM2i of table huExposureBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MLRM2i of table huExposureBldgTypeB

CKC_MLRM2I_HUEXPOSU

Column MLRIi of table huExposureBldgTypeB

Card of the column MLRIi of the table huExposureBldgTypeB

Name	MLRIi
Code	MLRIi
Data Type	int
Mandatory	FALSE

Standard check of column MLRIi of table huExposureBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MLRIi of table huExposureBldgTypeB

CKC_MLRII_HUEXPOSU

Column MERBLi of table huExposureBldgTypeB

Card of the column MERBLi of the table huExposureBldgTypeB

Name	MERBLi
Code	MERBLi
Data Type	int
Mandatory	FALSE

Standard check of column MERBLi of table huExposureBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MERBLi of table huExposureBldgTypeB

CKC_MERBLI_HUEXPOSU

Column MERBMi of table huExposureBldgTypeB

Card of the column MERBMi of the table huExposureBldgTypeB

Name	MERBMi
Code	MERBMi
Data Type	int
Mandatory	FALSE

Standard check of column MERBMi of table huExposureBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MERBMi of table huExposureBldgTypeB

CKC_MERBMI_HUEXPOSU

Column MERBHi of table huExposureBldgTypeB

Card of the column MERBHi of the table huExposureBldgTypeB

Name	MERBHi
Code	MERBHi
Data Type	int
Mandatory	FALSE

Standard check of column MERBHi of table huExposureBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MERBHi of table huExposureBldgTypeB

CKC_MERBHI_HUEXPOSU

Column MECBLi of table huExposureBldgTypeB

Card of the column MECBLi of the table huExposureBldgTypeB

Name	MECBLi
Code	MECBLi
Data Type	int
Mandatory	FALSE

Standard check of column MECBLi of table huExposureBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MECBLi of table huExposureBldgTypeB

CKC_MECBLI_HUEXPOSU

Column MECBMi of table huExposureBldgTypeB

Card of the column MECBMi of the table huExposureBldgTypeB

Name	MECBMi
Code	MECBMi
Data Type	int
Mandatory	FALSE

Standard check of column MECBMi of table huExposureBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MECBMi of table huExposureBldgTypeB

CKC_MECBMI_HUEXPOSU

Column MECBHi of table huExposureBldgTypeB

Card of the column MECBHi of the table huExposureBldgTypeB

Name	MECBHi
Code	MECBHi
Data Type	int
Mandatory	FALSE

Standard check of column MECBHi of table huExposureBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	

Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MECBHi of table huExposureBldgTypeB

CKC_MECBHI_HUEXPOSU

Column CERBLi of table huExposureBldgTypeB

Card of the column CERBLi of the table huExposureBldgTypeB

Name	CERBLi
Code	CERBLi
Data Type	int
Mandatory	FALSE

Standard check of column CERBLi of table huExposureBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CERBLi of table huExposureBldgTypeB

CKC_CERBLI_HUEXPOSU

Column CERBMi of table huExposureBldgTypeB

Card of the column CERBMi of the table huExposureBldgTypeB

Name	CERBMi
Code	CERBMi
Data Type	int
Mandatory	FALSE

Standard check of column CERBMi of table huExposureBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CERBMi of table huExposureBldgTypeB

CKC_CERBMI_HUEXPOSU

Column CERBHi of table huExposureBldgTypeB

Card of the column CERBHi of the table huExposureBldgTypeB

Name	CERBHi
Code	CERBHi
Data Type	int
Mandatory	FALSE

Standard check of column CERBHi of table huExposureBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CERBHi of table huExposureBldgTypeB

CKC_CERBHI_HUEXPOSU

Column CECBLi of table huExposureBldgTypeB

Card of the column CECBLi of the table huExposureBldgTypeB

Name	CECBLi
Code	CECBLi
Data Type	int
Mandatory	FALSE

Standard check of column CECBLi of table huExposureBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CECBLi of table huExposureBldgTypeB

CKC_CECBLI_HUEXPOSU

Column CECBMi of table huExposureBldgTypeB

Card of the column CECBMi of the table huExposureBldgTypeB

Name	CECBMi
Code	CECBMi
Data Type	int
Mandatory	FALSE

Standard check of column CECBMi of table huExposureBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CECBMi of table huExposureBldgTypeB

CKC_CECBMI_HUEXPOSU

Column CECBHi of table huExposureBldgTypeB

Card of the column CECBHi of the table huExposureBldgTypeB

Name	CECBHi
Code	CECBHi
Data Type	int
Mandatory	FALSE

Standard check of column CECBHi of table huExposureBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CECBHi of table huExposureBldgTypeB

CKC_CECBHI_HUEXPOSU

Column SPMBSi of table huExposureBldgTypeB

Card of the column SPMBSi of the table huExposureBldgTypeB

Name	SPMBSi
Code	SPMBSi
Data Type	int
Mandatory	FALSE

Standard check of column SPMBSi of table huExposureBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SPMBSi of table huExposureBldgTypeB

CKC_SPMBSI_HUEXPOSU

Column SPMBMi of table huExposureBldgTypeB

Card of the column SPMBMi of the table huExposureBldgTypeB

Name	SPMBMi
Code	SPMBMi
Data Type	int
Mandatory	FALSE

Standard check of column SPMBMi of table huExposureBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SPMBMi of table huExposureBldgTypeB

CKC_SPMBMI_HUEXPOSU

Column SPMBLi of table huExposureBldgTypeB

Card of the column SPMBLi of the table huExposureBldgTypeB

Name	SPMBLi
Code	SPMBLi
Data Type	int
Mandatory	FALSE

Standard check of column SPMBLi of table huExposureBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	

Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SPMBLi of table huExposureBldgTypeB

CKC_SPMBLI_HUEXPOSU

Column SERBLi of table huExposureBldgTypeB

Card of the column SERBLi of the table huExposureBldgTypeB

Name	SERBLi
Code	SERBLi
Data Type	int
Mandatory	FALSE

Standard check of column SERBLi of table huExposureBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SERBLi of table huExposureBldgTypeB

CKC_SERBLI_HUEXPOSU

Column SERBMi of table huExposureBldgTypeB

Card of the column SERBMi of the table huExposureBldgTypeB

Name	SERBMi
Code	SERBMi
Data Type	int
Mandatory	FALSE

Standard check of column SERBMi of table huExposureBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SERBMi of table huExposureBldgTypeB

CKC_SERBMI_HUEXPOSU

Column SERBHi of table huExposureBldgTypeB

Card of the column SERBHi of the table huExposureBldgTypeB

Name	SERBHi
Code	SERBHi
Data Type	int
Mandatory	FALSE

Standard check of column SERBHi of table huExposureBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SERBHi of table huExposureBldgTypeB

CKC_SERBHI_HUEXPOSU

Column SECBLi of table huExposureBldgTypeB

Card of the column SECBLi of the table huExposureBldgTypeB

Name	SECBLi
Code	SECBLi
Data Type	int
Mandatory	FALSE

Standard check of column SECBLi of table huExposureBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SECBLi of table huExposureBldgTypeB

CKC_SECBLI_HUEXPOSU

Column SECBMi of table huExposureBldgTypeB

Card of the column SECBMi of the table huExposureBldgTypeB

Name	SECBMi
Code	SECBMi
Data Type	int
Mandatory	FALSE

Standard check of column SECBMi of table huExposureBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SECBMi of table huExposureBldgTypeB

CKC_SECBMI_HUEXPOSU

Column SECBHi of table huExposureBldgTypeB

Card of the column SECBHi of the table huExposureBldgTypeB

Name	SECBHi
Code	SECBHi
Data Type	int
Mandatory	FALSE

Standard check of column SECBHi of table huExposureBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SECBHi of table huExposureBldgTypeB

CKC_SECBHI_HUEXPOSU

Column MHPHUDi of table huExposureBldgTypeB

Card of the column MHPHUDi of the table huExposureBldgTypeB

Name	MHPHUDi
Code	MHPHUDi
Data Type	int
Mandatory	FALSE

Standard check of column MHPHUDi of table huExposureBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MHPHUDi of table huExposureBldgTypeB

CKC_MHPHUDI_HUEXPOSU

Column MH76HUDi of table huExposureBldgTypeB

Card of the column MH76HUDi of the table huExposureBldgTypeB

Name	MH76HUDi
Code	MH76HUDi
Data Type	int
Mandatory	FALSE

Standard check of column MH76HUDi of table huExposureBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MH76HUDi of table huExposureBldgTypeB

CKC_MH76HUDI_HUEXPOSU

Column MH94HUDIi of table huExposureBldgTypeB

Card of the column MH94HUDIi of the table huExposureBldgTypeB

Name	MH94HUDIi
Code	MH94HUDIi
Data Type	int
Mandatory	FALSE

Standard check of column MH94HUDIi of table huExposureBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	

Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MH94HUDIi of table huExposureBldgTypeB

CKC_MH94HUDII_HUEXPOSU

Column MH94HUDIIi of table huExposureBldgTypeB

Card of the column MH94HUDIIi of the table huExposureBldgTypeB

Name	MH94HUDIIi
Code	MH94HUDIIi
Data Type	int
Mandatory	FALSE

Standard check of column MH94HUDIIi of table huExposureBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MH94HUDIIi of table huExposureBldgTypeB

CKC_MH94HUDIII_HUEXPOSU

Column MH94HUDIIIi of table huExposureBldgTypeB

Card of the column MH94HUDIIIi of the table huExposureBldgTypeB

Name	MH94HUDIIIi
Code	MH94HUDIIIi
Data Type	int
Mandatory	FALSE

Standard check of column MH94HUDIIIi of table huExposureBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MH94HUDIIIi of table huExposureBldgTypeB

CKC_MH94HUDIIII_HUEXPOSU

Key list of the table huExposureBldgTypeB

Name	Code
Key_1	Key_1

Key Key_1 of table huExposureBldgTypeB

Card of the key Key_1 of the table huExposureBldgTypeB

Name	Key_1
Code	Key_1
Table	huExposureBldgTypeB

Column list of the key Key_1

Name	Code
CensusBlock	CensusBlock

Code preview of Key_1

```
alter table huExposureBldgTypeB
   drop constraint PK_HUEXPOSUREBLDGTYPEB
go
```

Index list of the table huExposureBldgTypeB

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
RLNBLOCK_HUEXPBT_FK	RLNBLOCK_HUEXPBT_FK	FALSE	FALSE	FALSE	TRUE	FALSE

Index RLNBLOCK_HUEXPBT_FK of table huExposureBldgTypeB

Card of the index RLNBLOCK_HUEXPBT_FK of the table huExposureBldgTypeB

Name	RLNBLOCK_HUEXPBT_FK
Code	RLNBLOCK_HUEXPBT_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huExposureBldgTypeB

Column list of the index RLNBLOCK_HUEXPBT_FK

Name	Code	Sort
CensusBlock	CensusBlock	Ascending

Code preview of RLNBLOCK_HUEXPBT_FK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huExposureBldgTypeB

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huExposureBldgTypeB

```
alter table huExposureBldgTypeB
   drop constraint FK_HUEXPOSU_RLNBLOCK__HZCENSUS
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huExposureBldgTypeB')
            and   type = 'U')
   drop table huExposureBldgTypeB
go


/*==============================================================*/
/* Table: huExposureBldgTypeB                                   */
/*==============================================================*/
create table huExposureBldgTypeB (
CensusBlock          char(15)             not null,
WSF1i                int                  null,
WSF2i                int                  null,
WMUH1i               int                  null,
WMUH2i               int                  null,
WMUH3i               int                  null,
MSF1i                int                  null,
MSF2i                int                  null,
MMUH1i               int                  null,
MMUH2i               int                  null,
MMUH3i               int                  null,
MLRM1i               int                  null,
MLRM2i               int                  null,
MLRIi                int                  null,
MERBLi               int                  null,
MERBMi               int                  null,
MERBHi               int                  null,
MECBLi               int                  null,
MECBMi               int                  null,
MECBHi               int                  null,
CERBLi               int                  null,
CERBMi               int                  null,
CERBHi               int                  null,
CECBLi               int                  null,
CECBMi               int                  null,
CECBHi               int                  null,
SPMBSi               int                  null,
SPMBMi               int                  null,
SPMBLi               int                  null,
SERBLi               int                  null,
SERBMi               int                  null,
SERBHi               int                  null,
SECBLi               int                  null,
SECBMi               int                  null,
SECBHi               int                  null,
MHPHUDi              int                  null,
MH76HUDi             int                  null,
MH94HUDIi            int                  null,
MH94HUDIIi           int                  null,
```

```
MH94HUDIIIi        int              null,
constraint PK_HUEXPOSUREBLDGTYPEB primary key  (CensusBlock)
)
go


alter table huExposureBldgTypeB
  add constraint FK_HUEXPOSU_RLNBLOCK__HZCENSUS foreign key (CensusBlock)
    references hzCensusBlock (CensusBlock)
    on delete cascade on update cascade
go
```

Table huListOfBldgChar

Card of the table huListOfBldgChar

Name	huListOfBldgChar
Code	huListOfBldgChar
DBMS	Microsoft SQL Server 2000

Constraint name of table huListOfBldgChar

CKT_HULISTOFBLDGCHAR

Column list of the table huListOfBldgChar

Name	Code
BldgChar	BldgChar
BldgCharID	BldgCharID
CharType	CharType
bcDescription	bcDescription
bcName	bcName

Column BldgCharID of table huListOfBldgChar

Card of the column BldgCharID of the table huListOfBldgChar

Name	BldgCharID
Code	BldgCharID
Data Type	int
Mandatory	TRUE

Standard check of column BldgCharID of table huListOfBldgChar

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column BldgCharID of table huListOfBldgChar

CKC_BLDGCHARID_HULISTOF

Column CharType of table huListOfBldgChar

Card of the column CharType of the table huListOfBldgChar

Name	CharType
Code	CharType
Data Type	varchar(40)
Mandatory	TRUE

Standard check of column CharType of table huListOfBldgChar

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CharType of table huListOfBldgChar

CKC_CHARTYPE_HULISTOF

Column BldgChar of table huListOfBldgChar

Card of the column BldgChar of the table huListOfBldgChar

Name	BldgChar
Code	BldgChar
Data Type	char(5)
Mandatory	TRUE

Standard check of column BldgChar of table huListOfBldgChar

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column BldgChar of table huListOfBldgChar

CKC_BLDGCHAR_HULISTOF

Column bcName of table huListOfBldgChar

Card of the column bcName of the table huListOfBldgChar

Name	bcName
Code	bcName
Data Type	varchar(25)
Mandatory	TRUE

Standard check of column bcName of table huListOfBldgChar

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column bcName of table huListOfBldgChar

CKC_BCNAME_HULISTOF

Column bcDescription of table huListOfBldgChar

Card of the column bcDescription of the table huListOfBldgChar

Name	bcDescription
Code	bcDescription
Data Type	varchar(100)
Mandatory	FALSE

Standard check of column bcDescription of table huListOfBldgChar

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column bcDescription of table huListOfBldgChar

CKC_BCDESCRIPTION_HULISTOF

Key list of the table huListOfBldgChar

Name	Code
idtBldgCharID	IDTBLDGCHARID

Key idtBldgCharID of table huListOfBldgChar

Card of the key idtBldgCharID of the table huListOfBldgChar

Name	idtBldgCharID
Code	IDTBLDGCHARID
Table	huListOfBldgChar

Column list of the key idtBldgCharID

Name	Code
BldgCharID	BldgCharID

Code preview of idtBldgCharID

```
alter table huListOfBldgChar
   drop constraint PK_HULISTOFBLDGCHAR
go
```

Index list of the table huListOfBldgChar

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
huBldgChar_PK	huBldgChar_PK	TRUE	FALSE	TRUE	FALSE	FALSE

Index huBldgChar_PK of table huListOfBldgChar

Card of the index huBldgChar_PK of the table huListOfBldgChar

Name	huBldgChar_PK
Code	huBldgChar_PK
Unique	TRUE
Cluster	FALSE
Primary	TRUE
Foreign Key	FALSE
Alternate Key	FALSE
Table	huListOfBldgChar

Column list of the index huBldgChar_PK

Name	Code	Sort
BldgCharID	BldgCharID	Ascending

Code preview of huBldgChar_PK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huListOfBldgChar

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huListOfBldgChar

```
if exists (select 1
          from  sysobjects
         where  id = object_id('huListOfBldgChar')
          and   type = 'U')
   drop table huListOfBldgChar
```

```
go

/*==============================================================*/
/* Table: huListOfBldgChar                                      */
/*==============================================================*/
create table huListOfBldgChar (
BldgCharID          int                 not null,
CharType            varchar(40)         not null,
BldgChar            char(5)             not null,
bcName              varchar(25)         not null,
bcDescription       varchar(100)        null,
constraint PK_HULISTOFBLDGCHAR primary key  (BldgCharID)
)
go
```

Table huBldgCharValidity

Card of the table huBldgCharValidity

Name	huBldgCharValidity
Code	huBldgCharValidity
DBMS	Microsoft SQL Server 2000

Constraint name of table huBldgCharValidity

CKT_HUBLDGCHARVALIDITY

Column list of the table huBldgCharValidity

Name	Code
BldgCharID	BLDGCHARID
CaseID	CaseID
bcvID	bcvID
sbtName	sbtName

Column bcvID of table huBldgCharValidity

Card of the column bcvID of the table huBldgCharValidity

Name	bcvID
Code	bcvID
Data Type	smallint
Mandatory	TRUE

Standard check of column bcvID of table huBldgCharValidity

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column bcvID of table huBldgCharValidity

CKC_BCVID_HUBLDGCH

Column sbtName of table huBldgCharValidity

Card of the column sbtName of the table huBldgCharValidity

Name	sbtName
Code	sbtName
Data Type	varchar(10)
Mandatory	TRUE

Standard check of column sbtName of table huBldgCharValidity

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column sbtName of table huBldgCharValidity

CKC_SBTNAME_HUBLDGCH

Column BldgCharID of table huBldgCharValidity

Card of the column BldgCharID of the table huBldgCharValidity

Name	BldgCharID
Code	BLDGCHARID
Data Type	int
Mandatory	TRUE

Standard check of column BldgCharID of table huBldgCharValidity

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column BldgCharID of table huBldgCharValidity

CKC_BLDGCHARID_HUBLDGCH

Column CaseID of table huBldgCharValidity

Card of the column CaseID of the table huBldgCharValidity

Name	CaseID
Code	CaseID
Data Type	int
Mandatory	TRUE

Standard check of column CaseID of table huBldgCharValidity

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CaseID of table huBldgCharValidity

CKC_CASEID_HUBLDGCH

Key list of the table huBldgCharValidity

Name	Code
idtbcvID	idtbcvID

Key idtbcvID of table huBldgCharValidity

Card of the key idtbcvID of the table huBldgCharValidity

Name	idtbcvID
Code	idtbcvID
Table	huBldgCharValidity

Column list of the key idtbcvID

Name	Code
bcvID	bcvID

Code preview of idtbcvID

```
alter table huBldgCharValidity
  drop constraint PK_HUBLDGCHARVALIDITY
go
```

Index list of the table huBldgCharValidity

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
RLNHULOBC_HUBCV_FK	RLNHULOBC_HUBCV_FK	FALSE	FALSE	FALSE	TRUE	FALSE
RLNHUSBT_HUBCV_FK	RLNHUSBT_HUBCV_FK	FALSE	FALSE	FALSE	TRUE	FALSE

Index RLNHULOBC_HUBCV_FK of table huBldgCharValidity

Card of the index RLNHULOBC_HUBCV_FK of the table huBldgCharValidity

Name	RLNHULOBC_HUBCV_FK
Code	RLNHULOBC_HUBCV_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huBldgCharValidity

Column list of the index RLNHULOBC_HUBCV_FK

Name	Code	Sort
BldgCharID	BLDGCHARID	Ascending

Code preview of RLNHULOBC_HUBCV_FK

The preview is empty because of the setting.
Check the generation option.

Index RLNHUSBT_HUBCV_FK of table huBldgCharValidity

Card of the index RLNHUSBT_HUBCV_FK of the table huBldgCharValidity

Name	RLNHUSBT_HUBCV_FK
Code	RLNHUSBT_HUBCV_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huBldgCharValidity

Column list of the index RLNHUSBT_HUBCV_FK

Name	Code	Sort
sbtName	sbtName	Ascending

Code preview of RLNHUSBT_HUBCV_FK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huBldgCharValidity

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huBldgCharValidity

```
alter table huBldgCharValidity
   drop constraint FK_HUBLDGCH_RLNHULOBC_HULISTOF
go


alter table huBldgCharValidity
   drop constraint FK_HUBLDGCH_RLNHUSBT__CLBLDGTY
go
```

```
alter table huBldgCharValidity
   drop constraint FK_HUBLDGCH_RLNCHARCA_HUBLDGCH
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huBldgCharValidity')
            and   type = 'U')
   drop table huBldgCharValidity
go


/*==============================================================*/
/* Table: huBldgCharValidity                                    */
/*==============================================================*/
create table huBldgCharValidity (
bcvID                smallint             not null,
sbtName              varchar(10)          not null,
BLDGCHARID           int                  not null,
CaseID               int                  not null,
constraint PK_HUBLDGCHARVALIDITY primary key  (bcvID)
)
go


alter table huBldgCharValidity
   add constraint FK_HUBLDGCH_RLNHULOBC_HULISTOF foreign key (BLDGCHARID)
      references huListOfBldgChar (BldgCharID)
go


alter table huBldgCharValidity
   add constraint FK_HUBLDGCH_RLNHUSBT__CLBLDGTY foreign key (sbtName)
      references clBldgTypeHu (sbtName)
go


alter table huBldgCharValidity
   add constraint FK_HUBLDGCH_RLNCHARCA_HUBLDGCH foreign key (CaseID)
      references huBldgCharCase (CaseID)
go
```

Table huGenAnalysisOpt

Card of the table huGenAnalysisOpt

Name	huGenAnalysisOpt
Code	huGenAnalysisOpt
DBMS	Microsoft SQL Server 2000

Constraint name of table huGenAnalysisOpt

CKT_HUGENANALYSISOPT

Column list of the table huGenAnalysisOpt

Name	Code
Reserved	Reserved
huGenAnalysisOpt	huGenAnalysisOpt

Column huGenAnalysisOpt of table huGenAnalysisOpt

Card of the column huGenAnalysisOpt of the table huGenAnalysisOpt

Name	huGenAnalysisOpt
Code	huGenAnalysisOpt
Data Type	int
Mandatory	TRUE

Standard check of column huGenAnalysisOpt of table huGenAnalysisOpt

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column huGenAnalysisOpt of table huGenAnalysisOpt

CKC_HUGENANALYSISOPT_HUGENANA

Column Reserved of table huGenAnalysisOpt

Card of the column Reserved of the table huGenAnalysisOpt

Name	Reserved
Code	Reserved
Data Type	smallint
Mandatory	FALSE

Standard check of column Reserved of table huGenAnalysisOpt

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Reserved of table huGenAnalysisOpt

CKC_RESERVED_HUGENANA

Key list of the table huGenAnalysisOpt

Name	Code
idtGenOptID	idtGenOptID

Key idtGenOptID of table huGenAnalysisOpt

Card of the key idtGenOptID of the table huGenAnalysisOpt

Name	idtGenOptID
Code	idtGenOptID
Table	huGenAnalysisOpt

Column list of the key idtGenOptID

Name	Code
huGenAnalysisOpt	huGenAnalysisOpt

Code preview of idtGenOptID

```
alter table huGenAnalysisOpt
  drop constraint PK_HUGENANALYSISOPT
go
```

Index list of the table huGenAnalysisOpt

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
huGenAnalysisOpt_PK	huGenAnalysisOpt_PK	TRUE	FALSE	TRUE	FALSE	FALSE

Index huGenAnalysisOpt_PK of table huGenAnalysisOpt

Card of the index huGenAnalysisOpt_PK of the table huGenAnalysisOpt

Name	huGenAnalysisOpt_PK
Code	huGenAnalysisOpt_PK
Unique	TRUE
Cluster	FALSE
Primary	TRUE
Foreign Key	FALSE
Alternate Key	FALSE
Table	huGenAnalysisOpt

Column list of the index huGenAnalysisOpt_PK

Name	Code	Sort
huGenAnalysisOpt	huGenAnalysisOpt	Ascending

Code preview of huGenAnalysisOpt_PK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huGenAnalysisOpt

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huGenAnalysisOpt

```
if exists (select 1
          from  sysobjects
         where  id = object_id('huGenAnalysisOpt')
          and   type = 'U')
   drop table huGenAnalysisOpt
go


/*==============================================================*/
/* Table: huGenAnalysisOpt                                      */
/*==============================================================*/
create table huGenAnalysisOpt (
huGenAnalysisOpt     int                 not null,
Reserved             smallint            null,
constraint PK_HUGENANALYSISOPT primary key  (huGenAnalysisOpt)
)
go
```

Table huBldgMapping

Card of the table huBldgMapping

Name	huBldgMapping
Code	huBldgMapping
DBMS	Microsoft SQL Server 2000

Constraint name of table huBldgMapping

CKT_HUBLDGMAPPING

Column list of the table huBldgMapping

Name	Code
BldgCharID	BLDGCHARID
PercentDist	PercentDist
huBldgSchemeName	huBldgSchemeName
sbtName	sbtName

Column huBldgSchemeName of table huBldgMapping

Card of the column huBldgSchemeName of the table huBldgMapping

Name	huBldgSchemeName
Code	huBldgSchemeName
Data Type	varchar(20)
Mandatory	TRUE

Standard check of column huBldgSchemeName of table huBldgMapping

Low value	
High value	
Default value	

Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column huBldgSchemeName of table huBldgMapping

CKC_HUBLDGSCHEMENAME_HUBLDGMA

Column sbtName of table huBldgMapping

Card of the column sbtName of the table huBldgMapping

Name	sbtName
Code	sbtName
Data Type	varchar(10)
Mandatory	TRUE

Standard check of column sbtName of table huBldgMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column sbtName of table huBldgMapping

CKC_SBTNAME_HUBLDGMA

Column BldgCharID of table huBldgMapping

Card of the column BldgCharID of the table huBldgMapping

Name	BldgCharID
Code	BLDGCHARID
Data Type	int
Mandatory	TRUE

Standard check of column BldgCharID of table huBldgMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column BldgCharID of table huBldgMapping

CKC_BLDGCHARID_HUBLDGMA

Column PercentDist of table huBldgMapping

Card of the column PercentDist of the table huBldgMapping

Name	PercentDist
Code	PercentDist
Data Type	real
Mandatory	FALSE

Standard check of column PercentDist of table huBldgMapping

Low value	0
High value	100
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column PercentDist of table huBldgMapping

CKC_PERCENTDIST_HUBLDGMA

Key list of the table huBldgMapping

Name	Code
AK_bldgMapping	AK_bldgMapping
Key_2	Key_2

Key AK_bldgMapping of table huBldgMapping

Card of the key AK_bldgMapping of the table huBldgMapping

Name	AK_bldgMapping
Code	AK_bldgMapping
Table	huBldgMapping

Column list of the key AK_bldgMapping

Name	Code
BldgCharID	BLDGCHARID
sbtName	sbtName
huBldgSchemeName	huBldgSchemeName

Code preview of AK_bldgMapping

```
alter table huBldgMapping
   drop constraint AK_AK_BLDGMAPPING_HUBLDGMA
go
```

Key Key_2 of table huBldgMapping

Card of the key Key_2 of the table huBldgMapping

Name	Key_2
Code	Key_2
Table	huBldgMapping

Column list of the key Key_2

Name	Code
huBldgSchemeName	huBldgSchemeName
sbtName	sbtName
BldgCharID	BLDGCHARID

Code preview of Key_2

```
alter table huBldgMapping
   drop constraint PK_HUBLDGMAPPING
go
```

Index list of the table huBldgMapping

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
RLNHUSBT_BLDGCHAR_FK	RLNHUSBT_BLDGCHAR_FK	FALSE	FALSE	FALSE	TRUE	FALSE
RLNHUBCSL_BLDGCHAR_FK	RLNHUBCSL_BLDGCHAR_FK	FALSE	FALSE	FALSE	TRUE	FALSE
RLNHULOBC_BCD_FK	RLNHULOBC_BCD_FK	FALSE	FALSE	FALSE	TRUE	FALSE

Index RLNHUSBT_BLDGCHAR_FK of table huBldgMapping

Card of the index RLNHUSBT_BLDGCHAR_FK of the table huBldgMapping

Name	RLNHUSBT_BLDGCHAR_FK
Code	RLNHUSBT_BLDGCHAR_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huBldgMapping

Column list of the index RLNHUSBT_BLDGCHAR_FK

Name	Code	Sort
sbtName	sbtName	Ascending

Code preview of RLNHUSBT_BLDGCHAR_FK

The preview is empty because of the setting.
Check the generation option.

Index RLNHUBCSL_BLDGCHAR_FK of table huBldgMapping

Card of the index RLNHUBCSL_BLDGCHAR_FK of the table huBldgMapping

Name	RLNHUBCSL_BLDGCHAR_FK
Code	RLNHUBCSL_BLDGCHAR_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huBldgMapping

Column list of the index RLNHUBCSL_BLDGCHAR_FK

Name	Code	Sort
huBldgSchemeName	huBldgSchemeName	Ascending

Code preview of RLNHUBCSL_BLDGCHAR_FK

The preview is empty because of the setting.
Check the generation option.

Index RLNHULOBC_BCD_FK of table huBldgMapping

Card of the index RLNHULOBC_BCD_FK of the table huBldgMapping

Name	RLNHULOBC_BCD_FK
Code	RLNHULOBC_BCD_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huBldgMapping

Column list of the index RLNHULOBC_BCD_FK

Name	Code	Sort
BldgCharID	BLDGCHARID	Ascending

Code preview of RLNHULOBC_BCD_FK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huBldgMapping

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huBldgMapping

```
alter table huBldgMapping
   drop constraint FK_HUBLDGMA_RLNHUSBT__CLBLDGTY
go


alter table huBldgMapping
   drop constraint FK_HUBLDGMA_RLNHUBCSL_HUBLDGMA
go
```

```
alter table huBldgMapping
   drop constraint FK_HUBLDGMA_RLNHULOBC_HULISTOF
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huBldgMapping')
            and   type = 'U')
   drop table huBldgMapping
go


/*==============================================================*/
/* Table: huBldgMapping                                         */
/*==============================================================*/
create table huBldgMapping (
huBldgSchemeName     varchar(20)          not null,
sbtName              varchar(10)          not null,
BLDGCHARID           int                  not null,
PercentDist          real                 null
     constraint CKC_PERCENTDIST_HUBLDGMA check (PercentDist is null or (PercentDist between 0 and 100 )),
constraint PK_HUBLDGMAPPING primary key  (huBldgSchemeName, sbtName, BLDGCHARID),
constraint AK_AK_BLDGMAPPING_HUBLDGMA unique (BLDGCHARID, sbtName, huBldgSchemeName)
)
go


alter table huBldgMapping
   add constraint FK_HUBLDGMA_RLNHUSBT__CLBLDGTY foreign key (sbtName)
      references clBldgTypeHu (sbtName)
go


alter table huBldgMapping
   add constraint FK_HUBLDGMA_RLNHUBCSL_HUBLDGMA foreign key (huBldgSchemeName)
      references huBldgMappingList (huBldgSchemeName)
      on delete cascade on update cascade
go


alter table huBldgMapping
   add constraint FK_HUBLDGMA_RLNHULOBC_HULISTOF foreign key (BLDGCHARID)
      references huListOfBldgChar (BldgCharID)
go
```

Table huBldgCharWt

Card of the table huBldgCharWt

Name	huBldgCharWt
Code	huBldgCharWt
DBMS	Microsoft SQL Server 2000

Constraint name of table huBldgCharWt

CKT_HUBLDGCHARWT

Column list of the table huBldgCharWt

Name	Code
WtPercent	WtPercent
huBldgSchemeName	huBldgSchemeName
wbID	wbID

Column huBldgSchemeName of table huBldgCharWt

Card of the column huBldgSchemeName of the table huBldgCharWt

Name	huBldgSchemeName
Code	huBldgSchemeName
Data Type	varchar(20)
Mandatory	TRUE

Standard check of column huBldgSchemeName of table huBldgCharWt

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column huBldgSchemeName of table huBldgCharWt

CKC_HUBLDGSCHEMENAME_HUBLDGCH

Column wbID of table huBldgCharWt

Card of the column wbID of the table huBldgCharWt

Name	wbID
Code	wbID
Data Type	smallint
Mandatory	TRUE

Standard check of column wbID of table huBldgCharWt

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column wbID of table huBldgCharWt

CKC_WBID_HUBLDGCH

Column WtPercent of table huBldgCharWt

Card of the column WtPercent of the table huBldgCharWt

Name	WtPercent
Code	WtPercent
Data Type	real
Mandatory	TRUE

Standard check of column WtPercent of table huBldgCharWt

Low value	0
High value	1
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WtPercent of table huBldgCharWt

CKC_WTPERCENT_HUBLDGCH

Key list of the table huBldgCharWt

Name	Code
AK_hubmaplist_wbid	AK_hubmaplist_wbid
Key_2	Key_2

Key AK_hubmaplist_wbid of table huBldgCharWt

Card of the key AK_hubmaplist_wbid of the table huBldgCharWt

Name	AK_hubmaplist_wbid
Code	AK_hubmaplist_wbid
Table	huBldgCharWt

Column list of the key AK_hubmaplist_wbid

Name	Code
huBldgSchemeName	huBldgSchemeName
wbID	wbID

Code preview of AK_hubmaplist_wbid

```
alter table huBldgCharWt
  drop constraint AK_AK_HUBMAPLIST_WBID_HUBLDGCH
go
```

Key Key_2 of table huBldgCharWt

Card of the key Key_2 of the table huBldgCharWt

Name	Key_2
Code	Key_2
Table	huBldgCharWt

Column list of the key Key_2

Name	Code
huBldgSchemeName	huBldgSchemeName
wbID	wbID

Code preview of Key_2

```
alter table huBldgCharWt
   drop constraint PK_HUBLDGCHARWT
go
```

Index list of the table huBldgCharWt

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
RLNHUBCSL_HUBCW_FK	RLNHUBCSL_HUBCW_FK	FALSE	FALSE	FALSE	TRUE	FALSE
RLNHULOWBT_HUBCW_FK	RLNHULOWBT_HUBCW_FK	FALSE	FALSE	FALSE	TRUE	FALSE

Index RLNHUBCSL_HUBCW_FK of table huBldgCharWt

Card of the index RLNHUBCSL_HUBCW_FK of the table huBldgCharWt

Name	RLNHUBCSL_HUBCW_FK
Code	RLNHUBCSL_HUBCW_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huBldgCharWt

Column list of the index RLNHUBCSL_HUBCW_FK

Name	Code	Sort
huBldgSchemeName	huBldgSchemeName	Ascending

Code preview of RLNHUBCSL_HUBCW_FK

The preview is empty because of the setting.
Check the generation option.

Index RLNHULOWBT_HUBCW_FK of table huBldgCharWt

Card of the index RLNHULOWBT_HUBCW_FK of the table huBldgCharWt

Name	RLNHULOWBT_HUBCW_FK
Code	RLNHULOWBT_HUBCW_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huBldgCharWt

Column list of the index RLNHULOWBT_HUBCW_FK

Name	Code	Sort
wbID	wbID	Ascending

Code preview of RLNHULOWBT_HUBCW_FK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huBldgCharWt

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huBldgCharWt

```
alter table huBldgCharWt
   drop constraint FK_HUBLDGCH_RLNHUBCSL_HUBLDGMA
go


alter table huBldgCharWt
   drop constraint FK_HUBLDGCH_RLNHULOWB_HULISTOF
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huBldgCharWt')
            and   type = 'U')
   drop table huBldgCharWt
go


/*==============================================================*/
/* Table: huBldgCharWt                                          */
/*==============================================================*/
create table huBldgCharWt (
huBldgSchemeName     varchar(20)          not null,
wbID                 smallint             not null,
WtPercent            real                 not null
     constraint CKC_WTPERCENT_HUBLDGCH check (WtPercent between 0 and 1),
constraint PK_HUBLDGCHARWT primary key  (huBldgSchemeName, wbID),
constraint AK_AK_HUBMAPLIST_WBID_HUBLDGCH unique (huBldgSchemeName, wbID)
)
go


alter table huBldgCharWt
   add constraint FK_HUBLDGCH_RLNHUBCSL_HUBLDGMA foreign key (huBldgSchemeName)
      references huBldgMappingList (huBldgSchemeName)
      on delete cascade on update cascade
go


alter table huBldgCharWt
   add constraint FK_HUBLDGCH_RLNHULOWB_HULISTOF foreign key (wbID)
      references huListOfWindBldgTypes (wbID)
go
```

Table huBldgMappingList

Card of the table huBldgMappingList

Name	huBldgMappingList
Code	huBldgMappingList
DBMS	Microsoft SQL Server 2000

Constraint name of table huBldgMappingList

CKT_HUBLDGMAPPINGLIST

Column list of the table huBldgMappingList

Name	Code
CaseID	CaseID
SchemeCreated	SchemeCreated
SchemeDescription	SchemeDescription
SchemeUpdated	SchemeUpdated
Updateable	Updateable
huBldgSchemeName	huBldgSchemeName

Column huBldgSchemeName of table huBldgMappingList

Card of the column huBldgSchemeName of the table huBldgMappingList

Name	huBldgSchemeName
Code	huBldgSchemeName
Data Type	varchar(20)
Mandatory	TRUE

Standard check of column huBldgSchemeName of table huBldgMappingList

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column huBldgSchemeName of table huBldgMappingList

CKC_HUBLDGSCHEMENAME_HUBLDGMA

Column SchemeDescription of table huBldgMappingList

Card of the column SchemeDescription of the table huBldgMappingList

Name	SchemeDescription
Code	SchemeDescription
Data Type	varchar(40)
Mandatory	FALSE

Standard check of column SchemeDescription of table huBldgMappingList

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SchemeDescription of table huBldgMappingList

CKC_SCHEMEDESCRIPTION_HUBLDGMA

Column SchemeCreated of table huBldgMappingList

Card of the column SchemeCreated of the table huBldgMappingList

Name	SchemeCreated
Code	SchemeCreated
Data Type	datetime
Mandatory	FALSE

Standard check of column SchemeCreated of table huBldgMappingList

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SchemeCreated of table huBldgMappingList

CKC_SCHEMECREATED_HUBLDGMA

Column SchemeUpdated of table huBldgMappingList

Card of the column SchemeUpdated of the table huBldgMappingList

Name	SchemeUpdated
Code	SchemeUpdated
Data Type	datetime
Mandatory	FALSE

Standard check of column SchemeUpdated of table huBldgMappingList

Low value	
High value	
Default value	
Unit	
Format	

Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SchemeUpdated of table huBldgMappingList

CKC_SCHEMEUPDATED_HUBLDGMA

Column Updateable of table huBldgMappingList

Card of the column Updateable of the table huBldgMappingList

Name	Updateable
Code	Updateable
Data Type	bit
Mandatory	FALSE

Standard check of column Updateable of table huBldgMappingList

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Updateable of table huBldgMappingList

CKC_UPDATEABLE_HUBLDGMA

Column CaseID of table huBldgMappingList

Card of the column CaseID of the table huBldgMappingList

Name	CaseID
Code	CaseID
Data Type	int
Mandatory	FALSE

Standard check of column CaseID of table huBldgMappingList

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CaseID of table huBldgMappingList

CKC_CASEID_HUBLDGMA

Key list of the table huBldgMappingList

Name	Code
idthuBldgSchemeName	idthuBldgSchemeName

Key idthuBldgSchemeName of table huBldgMappingList

Card of the key idthuBldgSchemeName of the table huBldgMappingList

Name	idthuBldgSchemeName
Code	idthuBldgSchemeName
Table	huBldgMappingList

Column list of the key idthuBldgSchemeName

Name	Code
huBldgSchemeName	huBldgSchemeName

Code preview of idthuBldgSchemeName

```
alter table huBldgMappingList
  drop constraint PK_HUBLDGMAPPINGLIST
go
```

Index list of the table huBldgMappingList

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
huBldgCharSchemeList_PK	huBldgCharSchemeList_PK	TRUE	FALSE	TRUE	FALSE	FALSE

Index huBldgCharSchemeList_PK of table huBldgMappingList

Card of the index huBldgCharSchemeList_PK of the table huBldgMappingList

Name	huBldgCharSchemeList_PK
Code	huBldgCharSchemeList_PK
Unique	TRUE
Cluster	FALSE
Primary	TRUE
Foreign Key	FALSE
Alternate Key	FALSE
Table	huBldgMappingList

Column list of the index huBldgCharSchemeList_PK

Name	Code	Sort
huBldgSchemeName	huBldgSchemeName	Ascending

Code preview of huBldgCharSchemeList_PK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huBldgMappingList

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram
Main CDM Diagram	Main CDM Diagram
Main CDM Diagram	Main CDM Diagram

Code preview of huBldgMappingList

```
if exists (select 1
          from  sysobjects
         where  id = object_id('huBldgMappingList')
          and   type = 'U')
   drop table huBldgMappingList
go


/*==============================================================*/
/* Table: huBldgMappingList                                     */
/*==============================================================*/
create table huBldgMappingList (
huBldgSchemeName     varchar(20)          not null,
SchemeDescription    varchar(40)          null,
SchemeCreated        datetime             null,
SchemeUpdated        datetime             null,
Updateable           bit                  null,
CaseID               int                  null,
constraint PK_HUBLDGMAPPINGLIST primary key  (huBldgSchemeName)
)
go
```

Table huBldgTypeResultsB

Card of the table huBldgTypeResultsB

Name	huBldgTypeResultsB
Code	huBldgTypeResultsB
DBMS	Microsoft SQL Server 2000

Constraint name of table huBldgTypeResultsB

CKT_HUBLDGTYPERESULTSB

Column list of the table huBldgTypeResultsB

Name	Code
At Least Minor	At_Least_Minor
At Least Moderate	At_Least_Moderate
At Least Severe	At_Least_Severe
Building	Building
CensusBlock	CensusBlock
Complete	COMPLETE
Content	Content
Income	Income
Inventory	Inventory
Minor	MINOR
Moderate	MODERATE
No Damage	No_Damage
Relocation Cost	Relocation_Cost

Rental	Rental
Return_Period	Return_Period
Severe	SEVERE
Total	Total
Wage	Wage
bCurrent	BCURRENT
huScenarioName	huScenarioName
sbtName	sbtName

Column CensusBlock of table huBldgTypeResultsB

Card of the column CensusBlock of the table huBldgTypeResultsB

Name	CensusBlock
Code	CensusBlock
Data Type	char(15)
Mandatory	TRUE

Standard check of column CensusBlock of table huBldgTypeResultsB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CensusBlock of table huBldgTypeResultsB

CKC_CENSUSBLOCK_HUBLDGTY

Column sbtName of table huBldgTypeResultsB

Card of the column sbtName of the table huBldgTypeResultsB

Name	sbtName
Code	sbtName
Data Type	varchar(10)
Mandatory	TRUE

Standard check of column sbtName of table huBldgTypeResultsB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column sbtName of table huBldgTypeResultsB

CKC_SBTNAME_HUBLDGTY

Column Return_Period of table huBldgTypeResultsB

Card of the column Return_Period of the table huBldgTypeResultsB

Name	Return_Period
Code	Return_Period
Data Type	varchar(25)
Mandatory	TRUE

Standard check of column Return_Period of table huBldgTypeResultsB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Return_Period of table huBldgTypeResultsB

CKC_RETURN_PERIOD_HUBLDGTY

Column Total of table huBldgTypeResultsB

Card of the column Total of the table huBldgTypeResultsB

Name	Total
Code	Total
Data Type	real
Mandatory	FALSE

Standard check of column Total of table huBldgTypeResultsB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Total of table huBldgTypeResultsB

CKC_TOTAL_HUBLDGTY

Column Building of table huBldgTypeResultsB

Card of the column Building of the table huBldgTypeResultsB

Name	Building
Code	Building
Data Type	real
Mandatory	FALSE

Standard check of column Building of table huBldgTypeResultsB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Building of table huBldgTypeResultsB

CKC_BUILDING_HUBLDGTY

Column Content of table huBldgTypeResultsB

Card of the column Content of the table huBldgTypeResultsB

Name	Content
Code	Content
Data Type	real
Mandatory	FALSE

Standard check of column Content of table huBldgTypeResultsB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Content of table huBldgTypeResultsB

CKC_CONTENT_HUBLDGTY

Column Inventory of table huBldgTypeResultsB

Card of the column Inventory of the table huBldgTypeResultsB

Name	Inventory
Code	Inventory
Data Type	real
Mandatory	FALSE

Standard check of column Inventory of table huBldgTypeResultsB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Inventory of table huBldgTypeResultsB

CKC_INVENTORY_HUBLDGTY

Column Relocation Cost of table huBldgTypeResultsB

Card of the column Relocation Cost of the table huBldgTypeResultsB

Name	Relocation Cost
Code	Relocation_Cost
Data Type	real
Mandatory	FALSE

Standard check of column Relocation Cost of table huBldgTypeResultsB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Relocation Cost of table huBldgTypeResultsB

CKC_RELOCATION_COST_HUBLDGTY

Column Income of table huBldgTypeResultsB

Card of the column Income of the table huBldgTypeResultsB

Name	Income
Code	Income
Data Type	real
Mandatory	FALSE

Standard check of column Income of table huBldgTypeResultsB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE

Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Income of table huBldgTypeResultsB

CKC_INCOME_HUBLDGTY

Column Rental of table huBldgTypeResultsB

Card of the column Rental of the table huBldgTypeResultsB

Name	Rental
Code	Rental
Data Type	real
Mandatory	FALSE

Standard check of column Rental of table huBldgTypeResultsB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Rental of table huBldgTypeResultsB

CKC_RENTAL_HUBLDGTY

Column Wage of table huBldgTypeResultsB

Card of the column Wage of the table huBldgTypeResultsB

Name	Wage
Code	Wage
Data Type	real
Mandatory	FALSE

Standard check of column Wage of table huBldgTypeResultsB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Wage of table huBldgTypeResultsB

CKC_WAGE_HUBLDGTY

Column No Damage of table huBldgTypeResultsB

Card of the column No Damage of the table huBldgTypeResultsB

Name	No Damage
Code	No_Damage
Data Type	real
Mandatory	FALSE

Standard check of column No Damage of table huBldgTypeResultsB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column No Damage of table huBldgTypeResultsB

CKC_NO_DAMAGE_HUBLDGTY

Column Minor of table huBldgTypeResultsB

Card of the column Minor of the table huBldgTypeResultsB

Name	Minor
Code	MINOR
Data Type	real
Mandatory	FALSE

Standard check of column Minor of table huBldgTypeResultsB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Minor of table huBldgTypeResultsB

CKC_MINOR_HUBLDGTY

Column At Least Minor of table huBldgTypeResultsB

Card of the column At Least Minor of the table huBldgTypeResultsB

Name	At Least Minor
Code	At_Least_Minor
Data Type	real
Mandatory	FALSE

Standard check of column At Least Minor of table huBldgTypeResultsB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column At Least Minor of table huBldgTypeResultsB

CKC_AT_LEAST_MINOR_HUBLDGTY

Column Moderate of table huBldgTypeResultsB

Card of the column Moderate of the table huBldgTypeResultsB

Name	Moderate
Code	MODERATE
Data Type	real
Mandatory	FALSE

Standard check of column Moderate of table huBldgTypeResultsB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Moderate of table huBldgTypeResultsB

CKC_MODERATE_HUBLDGTY

Column At Least Moderate of table huBldgTypeResultsB

Card of the column At Least Moderate of the table huBldgTypeResultsB

Name	At Least Moderate
Code	At_Least_Moderate
Data Type	real
Mandatory	FALSE

Standard check of column At Least Moderate of table huBldgTypeResultsB

Low value	
High value	
Default value	0
Unit	

Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column At Least Moderate of table huBldgTypeResultsB

CKC_AT_LEAST_MODERATE_HUBLDGTY

Column Severe of table huBldgTypeResultsB

Card of the column Severe of the table huBldgTypeResultsB

Name	Severe
Code	SEVERE
Data Type	real
Mandatory	FALSE

Standard check of column Severe of table huBldgTypeResultsB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Severe of table huBldgTypeResultsB

CKC_SEVERE_HUBLDGTY

Column At Least Severe of table huBldgTypeResultsB

Card of the column At Least Severe of the table huBldgTypeResultsB

Name	At Least Severe
Code	At_Least_Severe
Data Type	real
Mandatory	FALSE

Standard check of column At Least Severe of table huBldgTypeResultsB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column At Least Severe of table huBldgTypeResultsB

CKC_AT_LEAST_SEVERE_HUBLDGTY

Column Complete of table huBldgTypeResultsB

Card of the column Complete of the table huBldgTypeResultsB

Name	Complete
Code	COMPLETE
Data Type	real
Mandatory	FALSE

Standard check of column Complete of table huBldgTypeResultsB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Complete of table huBldgTypeResultsB

CKC_COMPLETE_HUBLDGTY

Column bCurrent of table huBldgTypeResultsB

Card of the column bCurrent of the table huBldgTypeResultsB

Name	bCurrent
Code	BCURRENT
Data Type	bit
Mandatory	FALSE

Standard check of column bCurrent of table huBldgTypeResultsB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column bCurrent of table huBldgTypeResultsB

CKC_BCURRENT_HUBLDGTY

Column huScenarioName of table huBldgTypeResultsB

Card of the column huScenarioName of the table huBldgTypeResultsB

Name	huScenarioName
Code	huScenarioName
Data Type	varchar(40)
Mandatory	FALSE

Standard check of column huScenarioName of table huBldgTypeResultsB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column huScenarioName of table huBldgTypeResultsB

CKC_HUSCENARIONAME_HUBLDGTY

Key list of the table huBldgTypeResultsB

Name	Code
AK1_BlockBldgRltsB	AK1_BlockBldgRltsB
Key_2	Key_2

Key AK1_BlockBldgRltsB of table huBldgTypeResultsB

Card of the key AK1_BlockBldgRltsB of the table huBldgTypeResultsB

Name	AK1_BlockBldgRltsB
Code	AK1_BlockBldgRltsB
Table	huBldgTypeResultsB

Column list of the key AK1_BlockBldgRltsB

Name	Code
sbtName	sbtName
Return_Period	Return_Period
CensusBlock	CensusBlock

Code preview of AK1_BlockBldgRltsB

```
alter table huBldgTypeResultsB
  drop constraint AK_AK1_BLOCKBLDGRLTSB_HUBLDGTY
go
```

Key Key_2 of table huBldgTypeResultsB

Card of the key Key_2 of the table huBldgTypeResultsB

Name	Key_2
Code	Key_2
Table	huBldgTypeResultsB

Column list of the key Key_2

Name	Code
CensusBlock	CensusBlock
sbtName	sbtName
Return_Period	Return_Period

Code preview of Key_2

```
alter table huBldgTypeResultsB
   drop constraint PK_HUBLDGTYPERESULTSB
go
```

Index list of the table huBldgTypeResultsB

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
RLNBLOCK_HUGBTRLTSDETR_FK	RLNBLOCK_HUGBTRLTSDETR_FK	FALSE	FALSE	FALSE	TRUE	FALSE
RLNRP_BLDRLTSB_FK	RLNRP_BLDRLTSB_FK	FALSE	FALSE	FALSE	TRUE	FALSE
RLNHUBT_HURLTBTB_FK	RLNHUBT_HURLTBTB_FK	FALSE	FALSE	FALSE	TRUE	FALSE

Index RLNBLOCK_HUGBTRLTSDETR_FK of table huBldgTypeResultsB

Card of the index RLNBLOCK_HUGBTRLTSDETR_FK of the table huBldgTypeResultsB

Name	RLNBLOCK_HUGBTRLTSDETR_FK
Code	RLNBLOCK_HUGBTRLTSDETR_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huBldgTypeResultsB

Column list of the index RLNBLOCK_HUGBTRLTSDETR_FK

Name	Code	Sort
CensusBlock	CensusBlock	Ascending

Code preview of RLNBLOCK_HUGBTRLTSDETR_FK

The preview is empty because of the setting.
Check the generation option.

Index RLNRP_BLDRLTSB_FK of table huBldgTypeResultsB

Card of the index RLNRP_BLDRLTSB_FK of the table huBldgTypeResultsB

Name	RLNRP_BLDRLTSB_FK
Code	RLNRP_BLDRLTSB_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huBldgTypeResultsB

Column list of the index RLNRP_BLDRLTSB_FK

Name	Code	Sort
Return_Period	Return_Period	Ascending

Code preview of RLNRP_BLDRLTSB_FK

The preview is empty because of the setting.
Check the generation option.

Index RLNHUBT_HURLTBTB_FK of table huBldgTypeResultsB

Card of the index RLNHUBT_HURLTBTB_FK of the table huBldgTypeResultsB

Name	RLNHUBT_HURLTBTB_FK
Code	RLNHUBT_HURLTBTB_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huBldgTypeResultsB

Column list of the index RLNHUBT_HURLTBTB_FK

Name	Code	Sort
sbtName	sbtName	Ascending

Code preview of RLNHUBT_HURLTBTB_FK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huBldgTypeResultsB

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huBldgTypeResultsB

```
alter table huBldgTypeResultsB
   drop constraint FK_HUBLDGTY_RLNBLOCK__HZCENSUS
go


alter table huBldgTypeResultsB
   drop constraint FK_HUBLDGTY_RLNRP_BLD_HURETURN2
go


alter table huBldgTypeResultsB
   drop constraint FK_HUBLDGTY_RLNHUBT_H_CLBLDGTY2
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huBldgTypeResultsB')
            and   type = 'U')
   drop table huBldgTypeResultsB
go
```

```
/*==============================================================*/
/* Table: huBldgTypeResultsB                                    */
/*==============================================================*/
create table huBldgTypeResultsB (
CensusBlock         char(15)            not null,
sbtName             varchar(10)         not null,
Return_Period       varchar(25)         not null,
Total               real                null default 0,
Building            real                null default 0,
Content             real                null default 0,
Inventory           real                null default 0,
Relocation_Cost     real                null default 0,
Income              real                null default 0,
Rental              real                null default 0,
Wage                real                null default 0,
No_Damage           real                null default 0,
MINOR               real                null default 0,
At_Least_Minor      real                null default 0,
MODERATE            real                null default 0,
At_Least_Moderate   real                null default 0,
SEVERE              real                null default 0,
At_Least_Severe     real                null default 0,
COMPLETE            real                null default 0,
BCURRENT            bit                 null,
huScenarioName      varchar(40)         null,
constraint PK_HUBLDGTYPERESULTSB primary key  (CensusBlock, sbtName, Return_Period),
constraint AK_AK1_BLOCKBLDGRLTSB_HUBLDGTY unique (sbtName, Return_Period, CensusBlock)
)
go


alter table huBldgTypeResultsB
  add constraint FK_HUBLDGTY_RLNBLOCK__HZCENSUS foreign key (CensusBlock)
    references hzCensusBlock (CensusBlock)
    on delete cascade on update cascade
go


alter table huBldgTypeResultsB
  add constraint FK_HUBLDGTY_RLNRP_BLD_HURETURN2 foreign key (Return_Period)
    references huReturn_Periods (Return_Period)
go


alter table huBldgTypeResultsB
  add constraint FK_HUBLDGTY_RLNHUBT_H_CLBLDGTY2 foreign key (sbtName)
    references clBldgTypeHu (sbtName)
go
```

Table huBldgTypeResultsT

Card of the table huBldgTypeResultsT

Name	huBldgTypeResultsT
Code	huBldgTypeResultsT
DBMS	Microsoft SQL Server 2000

Constraint name of table huBldgTypeResultsT

CKT_HUBLDGTYPERESULTST

Column list of the table huBldgTypeResultsT

Name	Code
At Least Minor	At_Least_Minor
At Least Moderate	At_Least_Moderate
At Least Severe	At_Least_Severe
Building	Building
Complete	COMPLETE
Content	Content
Income	Income
Inventory	Inventory
Minor	MINOR
Moderate	MODERATE
No Damage	No_Damage
Relocation Cost	Relocation_Cost
Rental	Rental
Return_Period	Return_Period
Severe	SEVERE
Total	Total
Tract	TRACT
Wage	Wage
bCurrent	BCURRENT
huScenarioName	huScenarioName
sbtName	sbtName

Column Tract of table huBldgTypeResultsT

Card of the column Tract of the table huBldgTypeResultsT

Name	Tract
Code	TRACT
Data Type	char(11)
Mandatory	TRUE

Standard check of column Tract of table huBldgTypeResultsT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Tract of table huBldgTypeResultsT

CKC_TRACT_HUBLDGTY

Column sbtName of table huBldgTypeResultsT

Card of the column sbtName of the table huBldgTypeResultsT

Name	sbtName
Code	sbtName
Data Type	varchar(10)
Mandatory	TRUE

Standard check of column sbtName of table huBldgTypeResultsT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column sbtName of table huBldgTypeResultsT

CKC_SBTNAME_HUBLDGTY

Column Return_Period of table huBldgTypeResultsT

Card of the column Return_Period of the table huBldgTypeResultsT

Name	Return_Period
Code	Return_Period
Data Type	varchar(25)
Mandatory	TRUE

Standard check of column Return_Period of table huBldgTypeResultsT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Return_Period of table huBldgTypeResultsT

CKC_RETURN_PERIOD_HUBLDGTY

Column Total of table huBldgTypeResultsT

Card of the column Total of the table huBldgTypeResultsT

Name	Total
Code	Total
Data Type	real
Mandatory	FALSE

Standard check of column Total of table huBldgTypeResultsT

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Total of table huBldgTypeResultsT

CKC_TOTAL_HUBLDGTY

Column Building of table huBldgTypeResultsT

Card of the column Building of the table huBldgTypeResultsT

Name	Building
Code	Building
Data Type	real
Mandatory	FALSE

Standard check of column Building of table huBldgTypeResultsT

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Building of table huBldgTypeResultsT

CKC_BUILDING_HUBLDGTY

Column Content of table huBldgTypeResultsT

Card of the column Content of the table huBldgTypeResultsT

Name	Content
Code	Content
Data Type	real
Mandatory	FALSE

Standard check of column Content of table huBldgTypeResultsT

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE

Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Content of table huBldgTypeResultsT

CKC_CONTENT_HUBLDGTY

Column Inventory of table huBldgTypeResultsT

Card of the column Inventory of the table huBldgTypeResultsT

Name	Inventory
Code	Inventory
Data Type	real
Mandatory	FALSE

Standard check of column Inventory of table huBldgTypeResultsT

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Inventory of table huBldgTypeResultsT

CKC_INVENTORY_HUBLDGTY

Column Relocation Cost of table huBldgTypeResultsT

Card of the column Relocation Cost of the table huBldgTypeResultsT

Name	Relocation Cost
Code	Relocation_Cost
Data Type	real
Mandatory	FALSE

Standard check of column Relocation Cost of table huBldgTypeResultsT

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Relocation Cost of table huBldgTypeResultsT

CKC_RELOCATION_COST_HUBLDGTY

Column Income of table huBldgTypeResultsT

Card of the column Income of the table huBldgTypeResultsT

Name	Income
Code	Income
Data Type	real
Mandatory	FALSE

Standard check of column Income of table huBldgTypeResultsT

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Income of table huBldgTypeResultsT

CKC_INCOME_HUBLDGTY

Column Rental of table huBldgTypeResultsT

Card of the column Rental of the table huBldgTypeResultsT

Name	Rental
Code	Rental
Data Type	real
Mandatory	FALSE

Standard check of column Rental of table huBldgTypeResultsT

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Rental of table huBldgTypeResultsT

CKC_RENTAL_HUBLDGTY

Column Wage of table huBldgTypeResultsT

Card of the column Wage of the table huBldgTypeResultsT

Name	Wage
Code	Wage
Data Type	real
Mandatory	FALSE

Standard check of column Wage of table huBldgTypeResultsT

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Wage of table huBldgTypeResultsT

CKC_WAGE_HUBLDGTY

Column No Damage of table huBldgTypeResultsT

Card of the column No Damage of the table huBldgTypeResultsT

Name	No Damage
Code	No_Damage
Data Type	real
Mandatory	FALSE

Standard check of column No Damage of table huBldgTypeResultsT

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column No Damage of table huBldgTypeResultsT

CKC_NO_DAMAGE_HUBLDGTY

Column Minor of table huBldgTypeResultsT

Card of the column Minor of the table huBldgTypeResultsT

Name	Minor
Code	MINOR
Data Type	real
Mandatory	FALSE

Standard check of column Minor of table huBldgTypeResultsT

Low value	
High value	
Default value	0
Unit	

Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Minor of table huBldgTypeResultsT

CKC_MINOR_HUBLDGTY

Column At Least Minor of table huBldgTypeResultsT

Card of the column At Least Minor of the table huBldgTypeResultsT

Name	At Least Minor
Code	At_Least_Minor
Data Type	real
Mandatory	FALSE

Standard check of column At Least Minor of table huBldgTypeResultsT

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column At Least Minor of table huBldgTypeResultsT

CKC_AT_LEAST_MINOR_HUBLDGTY

Column Moderate of table huBldgTypeResultsT

Card of the column Moderate of the table huBldgTypeResultsT

Name	Moderate
Code	MODERATE
Data Type	real
Mandatory	FALSE

Standard check of column Moderate of table huBldgTypeResultsT

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Moderate of table huBldgTypeResultsT

CKC_MODERATE_HUBLDGTY

Column At Least Moderate of table huBldgTypeResultsT

Card of the column At Least Moderate of the table huBldgTypeResultsT

Name	At Least Moderate
Code	At_Least_Moderate
Data Type	real
Mandatory	FALSE

Standard check of column At Least Moderate of table huBldgTypeResultsT

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column At Least Moderate of table huBldgTypeResultsT

CKC_AT_LEAST_MODERATE_HUBLDGTY

Column Severe of table huBldgTypeResultsT

Card of the column Severe of the table huBldgTypeResultsT

Name	Severe
Code	SEVERE
Data Type	real
Mandatory	FALSE

Standard check of column Severe of table huBldgTypeResultsT

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Severe of table huBldgTypeResultsT

CKC_SEVERE_HUBLDGTY

Column At Least Severe of table huBldgTypeResultsT

Card of the column At Least Severe of the table huBldgTypeResultsT

Name	At Least Severe
Code	At_Least_Severe
Data Type	real
Mandatory	FALSE

Standard check of column At Least Severe of table huBldgTypeResultsT

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column At Least Severe of table huBldgTypeResultsT

CKC_AT_LEAST_SEVERE_HUBLDGTY

Column Complete of table huBldgTypeResultsT

Card of the column Complete of the table huBldgTypeResultsT

Name	Complete
Code	COMPLETE
Data Type	real
Mandatory	FALSE

Standard check of column Complete of table huBldgTypeResultsT

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Complete of table huBldgTypeResultsT

CKC_COMPLETE_HUBLDGTY

Column bCurrent of table huBldgTypeResultsT

Card of the column bCurrent of the table huBldgTypeResultsT

Name	bCurrent
Code	BCURRENT
Data Type	bit
Mandatory	FALSE

Standard check of column bCurrent of table huBldgTypeResultsT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column bCurrent of table huBldgTypeResultsT

CKC_BCURRENT_HUBLDGTY

Column huScenarioName of table huBldgTypeResultsT

Card of the column huScenarioName of the table huBldgTypeResultsT

Name	huScenarioName
Code	huScenarioName
Data Type	varchar(40)
Mandatory	FALSE

Standard check of column huScenarioName of table huBldgTypeResultsT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column huScenarioName of table huBldgTypeResultsT

CKC_HUSCENARIONAME_HUBLDGTY

Key list of the table huBldgTypeResultsT

Name	Code
AK_TractBldgDamRlts	AK_TractBldgDamRlts
Key_2	Key_2

Key AK_TractBldgDamRlts of table huBldgTypeResultsT

Card of the key AK_TractBldgDamRlts of the table huBldgTypeResultsT

Name	AK_TractBldgDamRlts
Code	AK_TractBldgDamRlts
Table	huBldgTypeResultsT

Column list of the key AK_TractBldgDamRlts

Name	Code
sbtName	sbtName
Return_Period	Return_Period
Tract	TRACT

Code preview of AK_TractBldgDamRlts

```
alter table huBldgTypeResultsT
   drop constraint AK_AK_TRACTBLDGDAMRLT_HUBLDGTY
go
```

Key Key_2 of table huBldgTypeResultsT

Card of the key Key_2 of the table huBldgTypeResultsT

Name	Key_2
Code	Key_2
Table	huBldgTypeResultsT

Column list of the key Key_2

Name	Code
Tract	TRACT
sbtName	sbtName
Return_Period	Return_Period

Code preview of Key_2

```
alter table huBldgTypeResultsT
   drop constraint PK_HUBLDGTYPERESULTST
go
```

Index list of the table huBldgTypeResultsT

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
RLNTRACT_HUGBRLTSDETR_FK	RLNTRACT_HUGBRLTSDETR_FK	FALSE	FALSE	FALSE	TRUE	FALSE
RLNRP_BLDRLTS_FK	RLNRP_BLDRLTS_FK	FALSE	FALSE	FALSE	TRUE	FALSE
RLNHUBT_HURLTSBT_FK	RLNHUBT_HURLTSBT_FK	FALSE	FALSE	FALSE	TRUE	FALSE

Index RLNTRACT_HUGBRLTSDETR_FK of table huBldgTypeResultsT

Card of the index RLNTRACT_HUGBRLTSDETR_FK of the table huBldgTypeResultsT

Name	RLNTRACT_HUGBRLTSDETR_FK
Code	RLNTRACT_HUGBRLTSDETR_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huBldgTypeResultsT

Column list of the index RLNTRACT_HUGBRLTSDETR_FK

Name	Code	Sort
Tract	TRACT	Ascending

Code preview of RLNTRACT_HUGBRLTSDETR_FK

The preview is empty because of the setting.
Check the generation option.

Index RLNRP_BLDRLTS_FK of table huBldgTypeResultsT

Card of the index RLNRP_BLDRLTS_FK of the table huBldgTypeResultsT

Name	RLNRP_BLDRLTS_FK
Code	RLNRP_BLDRLTS_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huBldgTypeResultsT

Column list of the index RLNRP_BLDRLTS_FK

Name	Code	Sort
Return_Period	Return_Period	Ascending

Code preview of RLNRP_BLDRLTS_FK

The preview is empty because of the setting.
Check the generation option.

Index RLNHUBT_HURLTSBT_FK of table huBldgTypeResultsT

Card of the index RLNHUBT_HURLTSBT_FK of the table huBldgTypeResultsT

Name	RLNHUBT_HURLTSBT_FK
Code	RLNHUBT_HURLTSBT_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huBldgTypeResultsT

Column list of the index RLNHUBT_HURLTSBT_FK

Name	Code	Sort
sbtName	sbtName	Ascending

Code preview of RLNHUBT_HURLTSBT_FK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huBldgTypeResultsT

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huBldgTypeResultsT

```
alter table huBldgTypeResultsT
   drop constraint FK_HUBLDGTY_RLNTRACT__HZTRACT
go


alter table huBldgTypeResultsT
   drop constraint FK_HUBLDGTY_RLNRP_BLD_HURETURN
go


alter table huBldgTypeResultsT
   drop constraint FK_HUBLDGTY_RLNHUBT_H_CLBLDGTY
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huBldgTypeResultsT')
            and   type = 'U')
   drop table huBldgTypeResultsT
go


/*==============================================================*/
/* Table: huBldgTypeResultsT                                    */
/*==============================================================*/
create table huBldgTypeResultsT (
TRACT               char(11)            not null,
sbtName             varchar(10)         not null,
Return_Period       varchar(25)         not null,
Total               real                null default 0,
Building            real                null default 0,
Content             real                null default 0,
Inventory           real                null default 0,
Relocation_Cost     real                null default 0,
Income              real                null default 0,
Rental              real                null default 0,
Wage                real                null default 0,
No_Damage           real                null default 0,
MINOR               real                null default 0,
At_Least_Minor      real                null default 0,
MODERATE            real                null default 0,
At_Least_Moderate   real                null default 0,
SEVERE              real                null default 0,
At_Least_Severe     real                null default 0,
COMPLETE            real                null default 0,
BCURRENT            bit                 null,
huScenarioName      varchar(40)         null,
constraint PK_HUBLDGTYPERESULTST primary key  (TRACT, sbtName, Return_Period),
constraint AK_AK_TRACTBLDGDAMRLT_HUBLDGTY unique (sbtName, Return_Period, TRACT)
)
go


alter table huBldgTypeResultsT
```

```
  add constraint FK_HUBLDGTY_RLNTRACT__HZTRACT foreign key (TRACT)
    references hzTract (Tract)
    on delete cascade on update cascade
go


alter table huBldgTypeResultsT
  add constraint FK_HUBLDGTY_RLNRP_BLD_HURETURN foreign key (Return_Period)
    references huReturn_Periods (Return_Period)
go


alter table huBldgTypeResultsT
  add constraint FK_HUBLDGTY_RLNHUBT_H_CLBLDGTY foreign key (sbtName)
    references clBldgTypeHu (sbtName)
go
```

Table huCensusBlock

Card of the table huCensusBlock

Name	huCensusBlock
Code	huCensusBlock
DBMS	Microsoft SQL Server 2000

Constraint name of table huCensusBlock

CKT_HUCENSUSBLOCK

Column list of the table huCensusBlock

Name	Code
CensusBlock	CensusBlock
SurfaceRoughness	SurfaceRoughness
WindGridIndex	WindGridIndex
huBldgSchemeName	huBldgSchemeName
huOccMapSchemeName	huOccMapSchemeName

Column CensusBlock of table huCensusBlock

Card of the column CensusBlock of the table huCensusBlock

Name	CensusBlock
Code	CensusBlock
Data Type	char(15)
Mandatory	TRUE

Standard check of column CensusBlock of table huCensusBlock

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE

List of values	

Constraint name of column CensusBlock of table huCensusBlock

CKC_CENSUSBLOCK_HUCENSUS

Column huBldgSchemeName of table huCensusBlock

Card of the column huBldgSchemeName of the table huCensusBlock

Name	huBldgSchemeName
Code	huBldgSchemeName
Data Type	varchar(20)
Mandatory	TRUE

Standard check of column huBldgSchemeName of table huCensusBlock

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column huBldgSchemeName of table huCensusBlock

CKC_HUBLDGSCHEMENAME_HUCENSUS

Column huOccMapSchemeName of table huCensusBlock

Card of the column huOccMapSchemeName of the table huCensusBlock

Name	huOccMapSchemeName
Code	huOccMapSchemeName
Data Type	varchar(20)
Mandatory	TRUE

Standard check of column huOccMapSchemeName of table huCensusBlock

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column huOccMapSchemeName of table huCensusBlock

CKC_HUOCCMAPSCHEMENAM_HUCENSUS

Column SurfaceRoughness of table huCensusBlock

Card of the column SurfaceRoughness of the table huCensusBlock

Name	SurfaceRoughness
Code	SurfaceRoughness
Data Type	real
Mandatory	FALSE

Standard check of column SurfaceRoughness of table huCensusBlock

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SurfaceRoughness of table huCensusBlock

CKC_SURFACEROUGHNESS_HUCENSUS

Column WindGridIndex of table huCensusBlock

Card of the column WindGridIndex of the table huCensusBlock

Name	WindGridIndex
Code	WindGridIndex
Data Type	smallint
Mandatory	FALSE

Standard check of column WindGridIndex of table huCensusBlock

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WindGridIndex of table huCensusBlock

CKC_WINDGRIDINDEX_HUCENSUS

Key list of the table huCensusBlock

Name	Code
idtKey	idtKey

Key idtKey of table huCensusBlock

Card of the key idtKey of the table huCensusBlock

Name	idtKey
Code	idtKey
Table	huCensusBlock

Column list of the key idtKey

Name	Code
CensusBlock	CensusBlock

Code preview of idtKey

```
alter table huCensusBlock
  drop constraint PK_HUCENSUSBLOCK
go
```

Index list of the table huCensusBlock

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
RLNCB_HUGBSOCCMAPLISTB_FK	RLNCB_HUGBSOCCMAPLISTB_FK	FALSE	FALSE	FALSE	TRUE	FALSE
RLNHUBLOCK_HUBCSLB_FK	RLNHUBLOCK_HUBCSLB_FK	FALSE	FALSE	FALSE	TRUE	FALSE
RLNHZCENBL_HUCENBL_FK	RLNHZCENBL_HUCENBL_FK	FALSE	FALSE	FALSE	TRUE	FALSE

Index RLNCB_HUGBSOCCMAPLISTB_FK of table huCensusBlock

Card of the index RLNCB_HUGBSOCCMAPLISTB_FK of the table huCensusBlock

Name	RLNCB_HUGBSOCCMAPLISTB_FK
Code	RLNCB_HUGBSOCCMAPLISTB_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huCensusBlock

Column list of the index RLNCB_HUGBSOCCMAPLISTB_FK

Name	Code	Sort
huOccMapSchemeName	huOccMapSchemeName	Ascending

Code preview of RLNCB_HUGBSOCCMAPLISTB_FK

The preview is empty because of the setting.
Check the generation option.

Index RLNHUBLOCK_HUBCSLB_FK of table huCensusBlock

Card of the index RLNHUBLOCK_HUBCSLB_FK of the table huCensusBlock

Name	RLNHUBLOCK_HUBCSLB_FK
Code	RLNHUBLOCK_HUBCSLB_FK

Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huCensusBlock

Column list of the index RLNHUBLOCK_HUBCSLB_FK

Name	Code	Sort
huBldgSchemeName	huBldgSchemeName	Ascending

Code preview of RLNHUBLOCK_HUBCSLB_FK

The preview is empty because of the setting.
Check the generation option.

Index RLNHZCENBL_HUCENBL_FK of table huCensusBlock

Card of the index RLNHZCENBL_HUCENBL_FK of the table huCensusBlock

Name	RLNHZCENBL_HUCENBL_FK
Code	RLNHZCENBL_HUCENBL_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huCensusBlock

Column list of the index RLNHZCENBL_HUCENBL_FK

Name	Code	Sort
CensusBlock	CensusBlock	Ascending

Code preview of RLNHZCENBL_HUCENBL_FK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huCensusBlock

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram
Main CDM Diagram	Main CDM Diagram
Main CDM Diagram	Main CDM Diagram

Code preview of huCensusBlock

```
alter table huCensusBlock
   drop constraint FK_HUCENSUS_RLNCB_HUG_HUGBSOCC
go


alter table huCensusBlock
   drop constraint FK_HUCENSUS_RLNHZCENB_HZCENSUS
go
```

```
alter table huCensusBlock
   drop constraint FK_HUCENSUS_RLNHUBLOC_HUBLDGMA
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huCensusBlock')
            and   type = 'U')
   drop table huCensusBlock
go


/*==============================================================*/
/* Table: huCensusBlock                                         */
/*==============================================================*/
create table huCensusBlock (
CensusBlock          char(15)             not null,
huBldgSchemeName     varchar(20)          not null,
huOccMapSchemeName   varchar(20)          not null,
SurfaceRoughness     real                 null,
WindGridIndex        smallint             null,
constraint PK_HUCENSUSBLOCK primary key  (CensusBlock)
)
go


alter table huCensusBlock
   add constraint FK_HUCENSUS_RLNCB_HUG_HUGBSOCC foreign key (huOccMapSchemeName)
      references huGbsOccMappingList (huOccMapSchemeName)
      on delete cascade on update cascade
go


alter table huCensusBlock
   add constraint FK_HUCENSUS_RLNHZCENB_HZCENSUS foreign key (CensusBlock)
      references hzCensusBlock (CensusBlock)
      on delete cascade on update cascade
go


alter table huCensusBlock
   add constraint FK_HUCENSUS_RLNHUBLOC_HUBLDGMA foreign key (huBldgSchemeName)
      references huBldgMappingList (huBldgSchemeName)
      on delete cascade on update cascade
go
```

Table huUserDefinedFlty

Card of the table huUserDefinedFlty

Name	huUserDefinedFlty
Code	huUserDefinedFlty
DBMS	Microsoft SQL Server 2000

Constraint name of table huUserDefinedFlty

CKT_HUUSERDEFINEDFLTY

Column list of the table huUserDefinedFlty

Name	Code
UserDefinedFltyId	UserDefinedFltyId
huBldgSchemeName	huBldgSchemeName
sbtName	sbtName

Column UserDefinedFltyId of table huUserDefinedFlty

Card of the column UserDefinedFltyId of the table huUserDefinedFlty

Name	UserDefinedFltyId
Code	UserDefinedFltyId
Data Type	char(8)
Mandatory	TRUE

Standard check of column UserDefinedFltyId of table huUserDefinedFlty

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column UserDefinedFltyId of table huUserDefinedFlty

CKC_USERDEFINEDFLTYID_HUUSERDE

Column sbtName of table huUserDefinedFlty

Card of the column sbtName of the table huUserDefinedFlty

Name	sbtName
Code	sbtName
Data Type	varchar(10)
Mandatory	FALSE

Standard check of column sbtName of table huUserDefinedFlty

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column sbtName of table huUserDefinedFlty

CKC_SBTNAME_HUUSERDE

Column huBldgSchemeName of table huUserDefinedFlty

Card of the column huBldgSchemeName of the table huUserDefinedFlty

Name	huBldgSchemeName
Code	huBldgSchemeName
Data Type	varchar(20)
Mandatory	FALSE

Standard check of column huBldgSchemeName of table huUserDefinedFlty

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column huBldgSchemeName of table huUserDefinedFlty

CKC_HUBLDGSCHEMENAME_HUUSERDE

Key list of the table huUserDefinedFlty

Name	Code
idtKey	idtKey

Key idtKey of table huUserDefinedFlty

Card of the key idtKey of the table huUserDefinedFlty

Name	idtKey
Code	idtKey
Table	huUserDefinedFlty

Column list of the key idtKey

Name	Code
UserDefinedFltyId	UserDefinedFltyId

Code preview of idtKey

```
alter table huUserDefinedFlty
   drop constraint PK_HUUSERDEFINEDFLTY
go
```

Index list of the table huUserDefinedFlty

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
RLNHUSBT_HUUD_FK	RLNHUSBT_HUUD_FK	FALSE	FALSE	FALSE	TRUE	FALSE
RLNHUBML_HUUD_FK	RLNHUBML_HUUD_FK	FALSE	FALSE	FALSE	TRUE	FALSE
RLNHZUD_HUUD_FK	RLNHZUD_HUUD_FK	FALSE	FALSE	FALSE	TRUE	FALSE

Index RLNHUSBT_HUUD_FK of table huUserDefinedFlty

Card of the index RLNHUSBT_HUUD_FK of the table huUserDefinedFlty

Name	RLNHUSBT_HUUD_FK
Code	RLNHUSBT_HUUD_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huUserDefinedFlty

Column list of the index RLNHUSBT_HUUD_FK

Name	Code	Sort
sbtName	sbtName	Ascending

Code preview of RLNHUSBT_HUUD_FK

The preview is empty because of the setting.
Check the generation option.

Index RLNHUBML_HUUD_FK of table huUserDefinedFlty

Card of the index RLNHUBML_HUUD_FK of the table huUserDefinedFlty

Name	RLNHUBML_HUUD_FK
Code	RLNHUBML_HUUD_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huUserDefinedFlty

Column list of the index RLNHUBML_HUUD_FK

Name	Code	Sort
huBldgSchemeName	huBldgSchemeName	Ascending

Code preview of RLNHUBML_HUUD_FK

The preview is empty because of the setting.
Check the generation option.

Index RLNHZUD_HUUD_FK of table huUserDefinedFlty

Card of the index RLNHZUD_HUUD_FK of the table huUserDefinedFlty

Name	RLNHZUD_HUUD_FK
Code	RLNHZUD_HUUD_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huUserDefinedFlty

Column list of the index RLNHZUD_HUUD_FK

Name	Code	Sort
UserDefinedFltyId	UserDefinedFltyId	Ascending

Code preview of RLNHZUD_HUUD_FK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huUserDefinedFlty

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huUserDefinedFlty

```
alter table huUserDefinedFlty
   drop constraint FK_HUUSERDE_RLNHUSBT__CLBLDGTY
go


alter table huUserDefinedFlty
   drop constraint FK_HUUSERDE_RLNHUBML__HUBLDGMA
go


alter table huUserDefinedFlty
   drop constraint FK_HUUSERDE_RLNHZUD_H_HZUSERDE
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huUserDefinedFlty')
            and   type = 'U')
   drop table huUserDefinedFlty
go


/*==============================================================*/
/* Table: huUserDefinedFlty                                     */
/*==============================================================*/
create table huUserDefinedFlty (
UserDefinedFltyId    char(8)              not null,
sbtName              varchar(10)          null,
huBldgSchemeName     varchar(20)          null,
constraint PK_HUUSERDEFINEDFLTY primary key  (UserDefinedFltyId)
)
go


alter table huUserDefinedFlty
   add constraint FK_HUUSERDE_RLNHUSBT__CLBLDGTY foreign key (sbtName)
      references clBldgTypeHu (sbtName)
go


alter table huUserDefinedFlty
   add constraint FK_HUUSERDE_RLNHUBML__HUBLDGMA foreign key (huBldgSchemeName)
      references huBldgMappingList (huBldgSchemeName)
go
```

```
alter table huUserDefinedFlty
  add constraint FK_HUUSERDE_RLNHZUD_H_HZUSERDE foreign key (UserDefinedFltyId)
    references hzUserDefinedFlty (UserDefinedFltyId)
    on delete cascade on update cascade
go
```

Table huDebrisAndShelterDamTypesByRP

Card of the table huDebrisAndShelterDamTypesByRP

Name	huDebrisAndShelterDamTypesByRP
Code	huDebrisAndShelterDamTypesByRP
DBMS	Microsoft SQL Server 2000

Constraint name of table huDebrisAndShelterDamTypesByRP

CKT_HUDEBRISANDSHELTERDAMTYPES

Column list of the table huDebrisAndShelterDamTypesByRP

Name	Code
DLType	DLType
Type	Type

Column DLType of table huDebrisAndShelterDamTypesByRP

Card of the column DLType of the table huDebrisAndShelterDamTypesByRP

Name	DLType
Code	DLType
Data Type	char(12)
Mandatory	TRUE

Standard check of column DLType of table huDebrisAndShelterDamTypesByRP

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column DLType of table huDebrisAndShelterDamTypesByRP

CKC_DLTYPE_HUDEBRIS

Column Type of table huDebrisAndShelterDamTypesByRP

Card of the column Type of the table huDebrisAndShelterDamTypesByRP

Name	Type
Code	Type

Data Type	char(5)
Mandatory	FALSE

Standard check of column Type of table huDebrisAndShelterDamTypesByRP

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Type of table huDebrisAndShelterDamTypesByRP

CKC_TYPE_HUDEBRIS

Key list of the table huDebrisAndShelterDamTypesByRP

Name	Code
idtDLType	idtDLType

Key idtDLType of table huDebrisAndShelterDamTypesByRP

Card of the key idtDLType of the table huDebrisAndShelterDamTypesByRP

Name	idtDLType
Code	idtDLType
Table	huDebrisAndShelterDamTypesByRP

Column list of the key idtDLType

Name	Code
DLType	DLType

Code preview of idtDLType

```
alter table huDebrisAndShelterDamTypesByRP
  drop constraint PK_HUDEBRISANDSHELTERDAMTYPESB
go
```

Index list of the table huDebrisAndShelterDamTypesByRP

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
huDebrisAndShelterDamTypesByRP_PK	huDebrisAndShelterDamTypesByRP_PK	TRUE	FALSE	TRUE	FALSE	FALSE

Index huDebrisAndShelterDamTypesByRP_PK of table huDebrisAndShelterDamTypesByRP

Card of the index huDebrisAndShelterDamTypesByRP_PK of the table huDebrisAndShelterDamTypesByRP

Name	huDebrisAndShelterDamTypesByRP_PK
Code	huDebrisAndShelterDamTypesByRP_PK
Unique	TRUE
Cluster	FALSE
Primary	TRUE
Foreign Key	FALSE
Alternate Key	FALSE
Table	huDebrisAndShelterDamTypesByRP

Column list of the index huDebrisAndShelterDamTypesByRP_PK

Name	Code	Sort
DLType	DLType	Ascending

Code preview of huDebrisAndShelterDamTypesByRP_PK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huDebrisAndShelterDamTypesByRP

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huDebrisAndShelterDamTypesByRP

```
if exists (select 1
          from  sysobjects
         where  id = object_id('huDebrisAndShelterDamTypesByRP')
          and   type = 'U')
   drop table huDebrisAndShelterDamTypesByRP
go


/*==============================================================*/
/* Table: huDebrisAndShelterDamTypesByRP                        */
/*==============================================================*/
create table huDebrisAndShelterDamTypesByRP (
DLType              char(12)            not null,
Type                char(5)             null,
constraint PK_HUDEBRISANDSHELTERDAMTYPESB primary key  (DLType)
)
go
```

Table huDebrisResultsB

Card of the table huDebrisResultsB

Name	huDebrisResultsB
Code	huDebrisResultsB
DBMS	Microsoft SQL Server 2000

Constraint name of table huDebrisResultsB

CKT_HUDEBRISRESULTSB

Column list of the table huDebrisResultsB

Name	Code
BrickAndWood	BRICKANDWOOD
CensusBlock	CensusBlock
ConcreteAndSteel	ConcreteAndSteel
Return_Period	Return_Period
Tree	Tree
TreeVolume	TreeVolume
bCurrent	bCurrent
huScenarioName	huScenarioName

Column CensusBlock of table huDebrisResultsB

Card of the column CensusBlock of the table huDebrisResultsB

Name	CensusBlock
Code	CensusBlock
Data Type	char(15)
Mandatory	TRUE

Standard check of column CensusBlock of table huDebrisResultsB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CensusBlock of table huDebrisResultsB

CKC_CENSUSBLOCK_HUDEBRIS

Column Return_Period of table huDebrisResultsB

Card of the column Return_Period of the table huDebrisResultsB

Name	Return_Period
Code	Return_Period
Data Type	varchar(25)
Mandatory	TRUE

Standard check of column Return_Period of table huDebrisResultsB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Return_Period of table huDebrisResultsB

CKC_RETURN_PERIOD_HUDEBRIS

Column BrickAndWood of table huDebrisResultsB

Card of the column BrickAndWood of the table huDebrisResultsB

Name	BrickAndWood
Code	BRICKANDWOOD
Data Type	int
Mandatory	FALSE

Standard check of column BrickAndWood of table huDebrisResultsB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column BrickAndWood of table huDebrisResultsB

CKC_BRICKANDWOOD_HUDEBRIS

Column ConcreteAndSteel of table huDebrisResultsB

Card of the column ConcreteAndSteel of the table huDebrisResultsB

Name	ConcreteAndSteel
Code	ConcreteAndSteel
Data Type	int
Mandatory	FALSE

Standard check of column ConcreteAndSteel of table huDebrisResultsB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column ConcreteAndSteel of table huDebrisResultsB

CKC_CONCRETEANDSTEEL_HUDEBRIS

Column Tree of table huDebrisResultsB

Card of the column Tree of the table huDebrisResultsB

Name	Tree
Code	Tree
Data Type	int
Mandatory	FALSE

Standard check of column Tree of table huDebrisResultsB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Tree of table huDebrisResultsB

CKC_TREE_HUDEBRIS

Column TreeVolume of table huDebrisResultsB

Card of the column TreeVolume of the table huDebrisResultsB

Name	TreeVolume
Code	TreeVolume
Data Type	real
Mandatory	FALSE

Standard check of column TreeVolume of table huDebrisResultsB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column TreeVolume of table huDebrisResultsB

CKC_TREEVOLUME_HUDEBRIS

Column bCurrent of table huDebrisResultsB

Card of the column bCurrent of the table huDebrisResultsB

Name	bCurrent
Code	bCurrent
Data Type	bit
Mandatory	FALSE

Standard check of column bCurrent of table huDebrisResultsB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column bCurrent of table huDebrisResultsB

CKC_BCURRENT_HUDEBRIS

Column huScenarioName of table huDebrisResultsB

Card of the column huScenarioName of the table huDebrisResultsB

Name	huScenarioName
Code	huScenarioName
Data Type	varchar(40)
Mandatory	FALSE

Standard check of column huScenarioName of table huDebrisResultsB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column huScenarioName of table huDebrisResultsB

CKC_HUSCENARIONAME_HUDEBRIS

Key list of the table huDebrisResultsB

Name	Code
AKshltrltsb	AKshltrltsb
Key_2	Key_2

Key AKshltrltsb of table huDebrisResultsB

Card of the key AKshltrltsb of the table huDebrisResultsB

Name	AKshltrltsb
Code	AKshltrltsb
Table	huDebrisResultsB

Column list of the key AKshltrltsb

Name	Code
CensusBlock	CensusBlock
Return_Period	Return_Period

Code preview of AKshltrltsb

```
alter table huDebrisResultsB
  drop constraint AK_AKSHLTRLTSB_HUDEBRIS
go
```

Key Key_2 of table huDebrisResultsB

Card of the key Key_2 of the table huDebrisResultsB

Name	Key_2
Code	Key_2
Table	huDebrisResultsB

Column list of the key Key_2

Name	Code
CensusBlock	CensusBlock
Return_Period	Return_Period

Code preview of Key_2

```
alter table huDebrisResultsB
  drop constraint PK_HUDEBRISRESULTSB
go
```

Index list of the table huDebrisResultsB

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
RLNBLOCK_HUDEBRISRLTS_FK	RLNBLOCK_HUDEBRISRLTS_FK	TRUE	FALSE	FALSE	TRUE	FALSE
RLNBLOCK_RP_FK	RLNBLOCK_RP_FK	FALSE	FALSE	FALSE	TRUE	FALSE

Index RLNBLOCK_HUDEBRISRLTS_FK of table huDebrisResultsB

Card of the index RLNBLOCK_HUDEBRISRLTS_FK of the table huDebrisResultsB

Name	RLNBLOCK_HUDEBRISRLTS_FK
Code	RLNBLOCK_HUDEBRISRLTS_FK
Unique	TRUE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huDebrisResultsB

Column list of the index RLNBLOCK_HUDEBRISRLTS_FK

Name	Code	Sort
CensusBlock	CensusBlock	Ascending

Code preview of RLNBLOCK_HUDEBRISRLTS_FK

The preview is empty because of the setting.
Check the generation option.

Index RLNBLOCK_RP_FK of table huDebrisResultsB

Card of the index RLNBLOCK_RP_FK of the table huDebrisResultsB

Name	RLNBLOCK_RP_FK
Code	RLNBLOCK_RP_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huDebrisResultsB

Column list of the index RLNBLOCK_RP_FK

Name	Code	Sort
Return_Period	Return_Period	Ascending

Code preview of RLNBLOCK_RP_FK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huDebrisResultsB

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huDebrisResultsB

```
alter table huDebrisResultsB
   drop constraint FK_HUDEBRIS_RLNBLOCK__HZCENSUS
go


alter table huDebrisResultsB
   drop constraint FK_HUDEBRIS_RLNRP_DEB_HURETURN2
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huDebrisResultsB')
            and   type = 'U')
   drop table huDebrisResultsB
go


/*==============================================================*/
/* Table: huDebrisResultsB                                      */
```

```
/*==============================================================*/
create table huDebrisResultsB (
CensusBlock          char(15)            not null,
Return_Period        varchar(25)         not null,
BRICKANDWOOD         int                 null default 0,
ConcreteAndSteel     int                 null default 0,
Tree                 int                 null default 0,
TreeVolume           real                null default 0,
bCurrent             bit                 null,
huScenarioName       varchar(40)         null,
constraint PK_HUDEBRISRESULTSB primary key  (CensusBlock, Return_Period),
constraint AK_AKSHLTRLTSB_HUDEBRIS unique (CensusBlock, Return_Period)
)
go


alter table huDebrisResultsB
  add constraint FK_HUDEBRIS_RLNBLOCK__HZCENSUS foreign key (CensusBlock)
    references hzCensusBlock (CensusBlock)
    on delete cascade on update cascade
go


alter table huDebrisResultsB
  add constraint FK_HUDEBRIS_RLNRP_DEB_HURETURN2 foreign key (Return_Period)
    references huReturn_Periods (Return_Period)
go
```

Table huDebrisResultsT

Card of the table huDebrisResultsT

Name	huDebrisResultsT
Code	huDebrisResultsT
DBMS	Microsoft SQL Server 2000

Constraint name of table huDebrisResultsT

CKT_HUDEBRISRESULTST

Column list of the table huDebrisResultsT

Name	Code
BrickAndWood	BRICKANDWOOD
ConcreteAndSteel	CONCRETEANDSTEEL
Return_Period	Return_Period
Tract	Tract
Tree	Tree
TreeVolume	TreeVolume
bCurrent	bCurrent
huScenarioName	huScenarioName

Column Tract of table huDebrisResultsT

Card of the column Tract of the table huDebrisResultsT

Name	Tract
Code	Tract

Data Type	char(11)
Mandatory	TRUE

Standard check of column Tract of table huDebrisResultsT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Tract of table huDebrisResultsT

CKC_TRACT_HUDEBRIS

Column Return_Period of table huDebrisResultsT

Card of the column Return_Period of the table huDebrisResultsT

Name	Return_Period
Code	Return_Period
Data Type	varchar(25)
Mandatory	TRUE

Standard check of column Return_Period of table huDebrisResultsT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Return_Period of table huDebrisResultsT

CKC_RETURN_PERIOD_HUDEBRIS

Column BrickAndWood of table huDebrisResultsT

Card of the column BrickAndWood of the table huDebrisResultsT

Name	BrickAndWood
Code	BRICKANDWOOD
Data Type	int
Mandatory	FALSE

Standard check of column BrickAndWood of table huDebrisResultsT

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column BrickAndWood of table huDebrisResultsT

CKC_BRICKANDWOOD_HUDEBRIS

Column ConcreteAndSteel of table huDebrisResultsT

Card of the column ConcreteAndSteel of the table huDebrisResultsT

Name	ConcreteAndSteel
Code	CONCRETEANDSTEEL
Data Type	int
Mandatory	FALSE

Standard check of column ConcreteAndSteel of table huDebrisResultsT

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column ConcreteAndSteel of table huDebrisResultsT

CKC_CONCRETEANDSTEEL_HUDEBRIS

Column Tree of table huDebrisResultsT

Card of the column Tree of the table huDebrisResultsT

Name	Tree
Code	Tree
Data Type	int
Mandatory	FALSE

Standard check of column Tree of table huDebrisResultsT

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE

Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Tree of table huDebrisResultsT

CKC_TREE_HUDEBRIS

Column TreeVolume of table huDebrisResultsT

Card of the column TreeVolume of the table huDebrisResultsT

Name	TreeVolume
Code	TreeVolume
Data Type	real
Mandatory	FALSE

Standard check of column TreeVolume of table huDebrisResultsT

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column TreeVolume of table huDebrisResultsT

CKC_TREEVOLUME_HUDEBRIS

Column bCurrent of table huDebrisResultsT

Card of the column bCurrent of the table huDebrisResultsT

Name	bCurrent
Code	bCurrent
Data Type	bit
Mandatory	FALSE

Standard check of column bCurrent of table huDebrisResultsT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column bCurrent of table huDebrisResultsT

CKC_BCURRENT_HUDEBRIS

Column huScenarioName of table huDebrisResultsT

Card of the column huScenarioName of the table huDebrisResultsT

Name	huScenarioName
Code	huScenarioName
Data Type	varchar(40)
Mandatory	FALSE

Standard check of column huScenarioName of table huDebrisResultsT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column huScenarioName of table huDebrisResultsT

CKC_HUSCENARIONAME_HUDEBRIS

Key list of the table huDebrisResultsT

Name	Code
AKdbrrlts	AKdbrrlts
Key_2	Key_2

Key AKdbrrlts of table huDebrisResultsT

Card of the key AKdbrrlts of the table huDebrisResultsT

Name	AKdbrrlts
Code	AKdbrrlts
Table	huDebrisResultsT

Column list of the key AKdbrrlts

Name	Code
Tract	Tract
Return_Period	Return_Period

Code preview of AKdbrrlts

```
alter table huDebrisResultsT
  drop constraint AK_AKDBRRLTS_HUDEBRIS
go
```

Key Key_2 of table huDebrisResultsT

Card of the key Key_2 of the table huDebrisResultsT

Name	Key_2
Code	Key_2
Table	huDebrisResultsT

Column list of the key Key_2

Name	Code
Tract	Tract
Return_Period	Return_Period

Code preview of Key_2

```
alter table huDebrisResultsT
  drop constraint PK_HUDEBRISRESULTST
go
```

Index list of the table huDebrisResultsT

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
RLNTRACT_HUDEBRISRLTS_FK	RLNTRACT_HUDEBRISRLTS_FK	TRUE	FALSE	FALSE	TRUE	FALSE
RLNTRACT_RP_FK	RLNTRACT_RP_FK	FALSE	FALSE	FALSE	TRUE	FALSE

Index RLNTRACT_HUDEBRISRLTS_FK of table huDebrisResultsT

Card of the index RLNTRACT_HUDEBRISRLTS_FK of the table huDebrisResultsT

Name	RLNTRACT_HUDEBRISRLTS_FK
Code	RLNTRACT_HUDEBRISRLTS_FK
Unique	TRUE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huDebrisResultsT

Column list of the index RLNTRACT_HUDEBRISRLTS_FK

Name	Code	Sort
Tract	Tract	Ascending

Code preview of RLNTRACT_HUDEBRISRLTS_FK

The preview is empty because of the setting.
Check the generation option.

Index RLNTRACT_RP_FK of table huDebrisResultsT

Card of the index RLNTRACT_RP_FK of the table huDebrisResultsT

Name	RLNTRACT_RP_FK
Code	RLNTRACT_RP_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huDebrisResultsT

Column list of the index RLNTRACT_RP_FK

Name	Code	Sort
Return_Period	Return_Period	Ascending

Code preview of RLNTRACT_RP_FK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huDebrisResultsT

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huDebrisResultsT

```
alter table huDebrisResultsT
   drop constraint FK_HUDEBRIS_RLNTRACT__HZTRACT
go

alter table huDebrisResultsT
   drop constraint FK_HUDEBRIS_RLNRP_DEB_HURETURN
go

if exists (select 1
            from  sysobjects
           where  id = object_id('huDebrisResultsT')
            and   type = 'U')
   drop table huDebrisResultsT
go

/*==============================================================*/
/* Table: huDebrisResultsT                                      */
/*==============================================================*/
create table huDebrisResultsT (
Tract               char(11)            not null,
Return_Period       varchar(25)         not null,
BRICKANDWOOD        int                 null default 0,
CONCRETEANDSTEEL    int                 null default 0,
Tree                int                 null default 0,
TreeVolume          real                null default 0,
bCurrent            bit                 null,
huScenarioName      varchar(40)         null,
constraint PK_HUDEBRISRESULTST primary key  (Tract, Return_Period),
constraint AK_AKDBRRLTS_HUDEBRIS unique (Tract, Return_Period)
)
go

alter table huDebrisResultsT
   add constraint FK_HUDEBRIS_RLNTRACT__HZTRACT foreign key (Tract)
      references hzTract (Tract)
      on delete cascade on update cascade
go


alter table huDebrisResultsT
   add constraint FK_HUDEBRIS_RLNRP_DEB_HURETURN foreign key (Return_Period)
      references huReturn_Periods (Return_Period)
go
```

Table huListOfWindBldgTypes

Card of the table huListOfWindBldgTypes

Name	huListOfWindBldgTypes
Code	huListOfWindBldgTypes
DBMS	Microsoft SQL Server 2000

Constraint name of table huListOfWindBldgTypes

CKT_HULISTOFWINDBLDGTYPES

Column list of the table huListOfWindBldgTypes

Name	Code
CaseID	CaseID
charDescription	charDescription
nWindChar	nWindChar
sbtName	sbtName
wbID	wbID

Column wbID of table huListOfWindBldgTypes

Card of the column wbID of the table huListOfWindBldgTypes

Name	wbID
Code	wbID
Data Type	smallint
Mandatory	TRUE

Standard check of column wbID of table huListOfWindBldgTypes

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column wbID of table huListOfWindBldgTypes

CKC_WBID_HULISTOF

Column sbtName of table huListOfWindBldgTypes

Card of the column sbtName of the table huListOfWindBldgTypes

Name	sbtName
Code	sbtName
Data Type	varchar(10)
Mandatory	TRUE

Standard check of column sbtName of table huListOfWindBldgTypes

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column sbtName of table huListOfWindBldgTypes

CKC_SBTNAME_HULISTOF

Column charDescription of table huListOfWindBldgTypes

Card of the column charDescription of the table huListOfWindBldgTypes

Name	charDescription
Code	charDescription
Data Type	char(100)
Mandatory	TRUE

Standard check of column charDescription of table huListOfWindBldgTypes

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column charDescription of table huListOfWindBldgTypes

CKC_CHARDESCRIPTION_HULISTOF

Column nWindChar of table huListOfWindBldgTypes

Card of the column nWindChar of the table huListOfWindBldgTypes

Name	nWindChar
Code	nWindChar
Data Type	smallint
Mandatory	TRUE

Standard check of column nWindChar of table huListOfWindBldgTypes

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE

Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column nWindChar of table huListOfWindBldgTypes

CKC_NWINDCHAR_HULISTOF

Column CaseID of table huListOfWindBldgTypes

Card of the column CaseID of the table huListOfWindBldgTypes

Name	CaseID
Code	CaseID
Data Type	int
Mandatory	FALSE

Standard check of column CaseID of table huListOfWindBldgTypes

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CaseID of table huListOfWindBldgTypes

CKC_CASEID_HULISTOF

Key list of the table huListOfWindBldgTypes

Name	Code
idtwbID	idtwbID

Key idtwbID of table huListOfWindBldgTypes

Card of the key idtwbID of the table huListOfWindBldgTypes

Name	idtwbID
Code	idtwbID
Table	huListOfWindBldgTypes

Column list of the key idtwbID

Name	Code
wbID	wbID

Code preview of idtwbID

```
alter table huListOfWindBldgTypes
  drop constraint PK_HULISTOFWINDBLDGTYPES
go
```

Index list of the table huListOfWindBldgTypes

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
huListOfWindBldgTypes_PK	huListOfWindBldgTypes_PK	TRUE	FALSE	TRUE	FALSE	FALSE
RLNHUSBT_HULOWBT_FK	RLNHUSBT_HULOWBT_FK	FALSE	FALSE	FALSE	TRUE	FALSE

Index huListOfWindBldgTypes_PK of table huListOfWindBldgTypes

Card of the index huListOfWindBldgTypes_PK of the table huListOfWindBldgTypes

Name	huListOfWindBldgTypes_PK
Code	huListOfWindBldgTypes_PK
Unique	TRUE
Cluster	FALSE
Primary	TRUE
Foreign Key	FALSE
Alternate Key	FALSE
Table	huListOfWindBldgTypes

Column list of the index huListOfWindBldgTypes_PK

Name	Code	Sort
wbID	wbID	Ascending

Code preview of huListOfWindBldgTypes_PK

The preview is empty because of the setting.
Check the generation option.

Index RLNHUSBT_HULOWBT_FK of table huListOfWindBldgTypes

Card of the index RLNHUSBT_HULOWBT_FK of the table huListOfWindBldgTypes

Name	RLNHUSBT_HULOWBT_FK
Code	RLNHUSBT_HULOWBT_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huListOfWindBldgTypes

Column list of the index RLNHUSBT_HULOWBT_FK

Name	Code	Sort
sbtName	sbtName	Ascending

Code preview of RLNHUSBT_HULOWBT_FK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huListOfWindBldgTypes

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huListOfWindBldgTypes

```
alter table huListOfWindBldgTypes
   drop constraint FK_HULISTOF_RLNHUSBT__CLBLDGTY
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huListOfWindBldgTypes')
            and   type = 'U')
   drop table huListOfWindBldgTypes
go


/*==============================================================*/
/* Table: huListOfWindBldgTypes                                 */
/*==============================================================*/
create table huListOfWindBldgTypes (
wbID                 smallint             not null,
sbtName              varchar(10)          not null,
charDescription      char(100)            not null,
nWindChar            smallint             not null,
CaseID               int                  null,
constraint PK_HULISTOFWINDBLDGTYPES primary key  (wbID)
)
go


alter table huListOfWindBldgTypes
   add constraint FK_HULISTOF_RLNHUSBT__CLBLDGTY foreign key (sbtName)
      references clBldgTypeHu (sbtName)
go
```

Table huShelterResultsT

Card of the table huShelterResultsT

Name	huShelterResultsT
Code	huShelterResultsT
DBMS	Microsoft SQL Server 2000

Constraint name of table huShelterResultsT

CKT_HUSHELTERRESULTST

Column list of the table huShelterResultsT

Name	Code
DisplacedHouseHolds	DISPLACEDHOUSEHOLDS
Return_Period	Return_Period
ShortTermShelterNeeds	SHORTTERMSHELTERNEEDS
Tract	TRACT
bCurrent	bCurrent
huScenarioName	huScenarioName

Column Tract of table huShelterResultsT

Card of the column Tract of the table huShelterResultsT

Name	Tract
Code	TRACT
Data Type	char(11)
Mandatory	TRUE

Standard check of column Tract of table huShelterResultsT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Tract of table huShelterResultsT

CKC_TRACT_HUSHELTE

Column Return_Period of table huShelterResultsT

Card of the column Return_Period of the table huShelterResultsT

Name	Return_Period
Code	Return_Period
Data Type	varchar(25)
Mandatory	TRUE

Standard check of column Return_Period of table huShelterResultsT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Return_Period of table huShelterResultsT

CKC_RETURN_PERIOD_HUSHELTE

Column DisplacedHouseHolds of table huShelterResultsT

Card of the column DisplacedHouseHolds of the table huShelterResultsT

Name	DisplacedHouseHolds
Code	DISPLACEDHOUSEHOLDS
Data Type	int
Mandatory	FALSE

Standard check of column DisplacedHouseHolds of table huShelterResultsT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column DisplacedHouseHolds of table huShelterResultsT

CKC_DISPLACEDHOUSEHOL_HUSHELTE

Column ShortTermShelterNeeds of table huShelterResultsT

Card of the column ShortTermShelterNeeds of the table huShelterResultsT

Name	ShortTermShelterNeeds
Code	SHORTTERMSHELTERNEEDS
Data Type	int
Mandatory	FALSE

Standard check of column ShortTermShelterNeeds of table huShelterResultsT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column ShortTermShelterNeeds of table huShelterResultsT

CKC_SHORTTERMSHELTERN_HUSHELTE

Column bCurrent of table huShelterResultsT

Card of the column bCurrent of the table huShelterResultsT

Name	bCurrent
Code	bCurrent
Data Type	bit
Mandatory	FALSE

Standard check of column bCurrent of table huShelterResultsT

Low value	
High value	
Default value	
Unit	
Format	

Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column bCurrent of table huShelterResultsT

CKC_BCURRENT_HUSHELTE

Column huScenarioName of table huShelterResultsT

Card of the column huScenarioName of the table huShelterResultsT

Name	huScenarioName
Code	huScenarioName
Data Type	varchar(40)
Mandatory	FALSE

Standard check of column huScenarioName of table huShelterResultsT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column huScenarioName of table huShelterResultsT

CKC_HUSCENARIONAME_HUSHELTE

Key list of the table huShelterResultsT

Name	Code
AKshltrlts	AKshltrlts
Key_2	Key_2

Key AKshltrlts of table huShelterResultsT

Card of the key AKshltrlts of the table huShelterResultsT

Name	AKshltrlts
Code	AKshltrlts
Table	huShelterResultsT

Column list of the key AKshltrlts

Name	Code
Tract	TRACT
Return_Period	Return_Period

Code preview of AKshltrlts

```
alter table huShelterResultsT
  drop constraint AK_AKSHLTRLTS_HUSHELTE
go
```

Key Key_2 of table huShelterResultsT

Card of the key Key_2 of the table huShelterResultsT

Name	Key_2
Code	Key_2
Table	huShelterResultsT

Column list of the key Key_2

Name	Code
Tract	TRACT
Return_Period	Return_Period

Code preview of Key_2

```
alter table huShelterResultsT
  drop constraint PK_HUSHELTERRESULTST
go
```

Index list of the table huShelterResultsT

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
RLNTRACT_HUSHELTERRLTS_FK	RLNTRACT_HUSHELTERRLTS_FK	TRUE	FALSE	FALSE	TRUE	FALSE
RLNTRACT_RP_FK	RLNTRACT_RP_FK	FALSE	FALSE	FALSE	TRUE	FALSE

Index RLNTRACT_HUSHELTERRLTS_FK of table huShelterResultsT

Card of the index RLNTRACT_HUSHELTERRLTS_FK of the table huShelterResultsT

Name	RLNTRACT_HUSHELTERRLTS_FK
Code	RLNTRACT_HUSHELTERRLTS_FK
Unique	TRUE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huShelterResultsT

Column list of the index RLNTRACT_HUSHELTERRLTS_FK

Name	Code	Sort
Tract	TRACT	Ascending

Code preview of RLNTRACT_HUSHELTERRLTS_FK

The preview is empty because of the setting.

Check the generation option.

Index RLNTRACT_RP_FK of table huShelterResultsT

Card of the index RLNTRACT_RP_FK of the table huShelterResultsT

Name	RLNTRACT_RP_FK
Code	RLNTRACT_RP_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huShelterResultsT

Column list of the index RLNTRACT_RP_FK

Name	Code	Sort
Return_Period	Return_Period	Ascending

Code preview of RLNTRACT_RP_FK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huShelterResultsT

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huShelterResultsT

```
alter table huShelterResultsT
   drop constraint FK_HUSHELTE_RLNTRACT__HZTRACT
go


alter table huShelterResultsT
   drop constraint FK_HUSHELTE_RLNRP_SHE_HURETURN2
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huShelterResultsT')
            and   type = 'U')
   drop table huShelterResultsT
go


/*==============================================================*/
/* Table: huShelterResultsT                                     */
/*==============================================================*/
create table huShelterResultsT (
TRACT              char(11)           not null,
Return_Period      varchar(25)        not null,
DISPLACEDHOUSEHOLDS  int                  null,
SHORTTERMSHELTERNEEDS int                 null,
bCurrent           bit                null,
huScenarioName     varchar(40)        null,
constraint PK_HUSHELTERRESULTST primary key  (TRACT, Return_Period),
```

```
constraint AK_AKSHLTRLTS_HUSHELTE unique (TRACT, Return_Period)
)
go


alter table huShelterResultsT
  add constraint FK_HUSHELTE_RLNTRACT__HZTRACT foreign key (TRACT)
    references hzTract (Tract)
go


alter table huShelterResultsT
  add constraint FK_HUSHELTE_RLNRP_SHE_HURETURN2 foreign key (Return_Period)
    references huReturn_Periods (Return_Period)
go
```

Table huTerrain

Card of the table huTerrain

Name	huTerrain
Code	huTerrain
DBMS	Microsoft SQL Server 2000

Constraint name of table huTerrain

CKT_HUTERRAIN

Column list of the table huTerrain

Name	Code
SRindex	SRindex
SurfaceRoughness	SURFACEROUGHNESS
Tract	Tract

Column Tract of table huTerrain

Card of the column Tract of the table huTerrain

Name	Tract
Code	Tract
Data Type	char(11)
Mandatory	TRUE

Standard check of column Tract of table huTerrain

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Tract of table huTerrain

CKC_TRACT_HUTERRAI

Column SurfaceRoughness of table huTerrain

Card of the column SurfaceRoughness of the table huTerrain

Name	SurfaceRoughness
Code	SURFACEROUGHNESS
Data Type	real
Mandatory	FALSE

Standard check of column SurfaceRoughness of table huTerrain

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SurfaceRoughness of table huTerrain

CKC_SURFACEROUGHNESS_HUTERRAI

Column SRindex of table huTerrain

Card of the column SRindex of the table huTerrain

Name	SRindex
Code	SRindex
Data Type	float
Mandatory	FALSE

Standard check of column SRindex of table huTerrain

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SRindex of table huTerrain

CKC_SRINDEX_HUTERRAI

Key list of the table huTerrain

Name	Code
idtKey	idtKey

Key idtKey of table huTerrain

Card of the key idtKey of the table huTerrain

Name	idtKey
Code	idtKey
Table	huTerrain

Column list of the key idtKey

Name	Code
Tract	Tract

Code preview of idtKey

```
alter table huTerrain
  drop constraint PK_HUTERRAIN
go
```

Index list of the table huTerrain

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
RLNTRACT_HUZO_FK	RLNTRACT_HUZO_FK	FALSE	FALSE	FALSE	TRUE	FALSE

Index RLNTRACT_HUZO_FK of table huTerrain

Card of the index RLNTRACT_HUZO_FK of the table huTerrain

Name	RLNTRACT_HUZO_FK
Code	RLNTRACT_HUZO_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huTerrain

Column list of the index RLNTRACT_HUZO_FK

Name	Code	Sort
Tract	Tract	Ascending

Code preview of RLNTRACT_HUZO_FK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huTerrain

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huTerrain

```
alter table huTerrain
   drop constraint FK_HUTERRAI_RLNTRACT__HZTRACT
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huTerrain')
            and   type = 'U')
   drop table huTerrain
go


/*==============================================================*/
/* Table: huTerrain                                             */
/*==============================================================*/
create table huTerrain (
Tract               char(11)            not null,
SURFACEROUGHNESS    real                null,
SRindex             AS ((round(([SURFACEROUGHNESS] * 100),3))),
constraint PK_HUTERRAIN primary key  (Tract)
)
go


alter table huTerrain
   add constraint FK_HUTERRAI_RLNTRACT__HZTRACT foreign key (Tract)
      references hzTract (Tract)
      on delete cascade on update cascade
go
```

Table huhzGenBldgSchemes

Card of the table huhzGenBldgSchemes

Name	huhzGenBldgSchemes
Code	huhzGenBldgSchemes
DBMS	Microsoft SQL Server 2000

Constraint name of table huhzGenBldgSchemes

CKT_HUHZGENBLDGSCHEMES

Column list of the table huhzGenBldgSchemes

Name	Code
BldgSchemesId	BldgSchemesId
SchemeBase	SchemeBase
Updateable	Updateable

Column BldgSchemesId of table huhzGenBldgSchemes

Card of the column BldgSchemesId of the table huhzGenBldgSchemes

Name	BldgSchemesId
Code	BldgSchemesId
Data Type	varchar(10)
Mandatory	TRUE

Standard check of column BldgSchemesId of table huhzGenBldgSchemes

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column BldgSchemesId of table huhzGenBldgSchemes

CKC_BLDGSCHEMESID_HUHZGENB

Column SchemeBase of table huhzGenBldgSchemes

Card of the column SchemeBase of the table huhzGenBldgSchemes

Name	SchemeBase
Code	SchemeBase
Data Type	varchar(20)
Mandatory	FALSE

Standard check of column SchemeBase of table huhzGenBldgSchemes

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SchemeBase of table huhzGenBldgSchemes

CKC_SCHEMEBASE_HUHZGENB

Column Updateable of table huhzGenBldgSchemes

Card of the column Updateable of the table huhzGenBldgSchemes

Name	Updateable
Code	Updateable
Data Type	bit
Mandatory	FALSE

Standard check of column Updateable of table huhzGenBldgSchemes

Low value	
High value	
Default value	
Unit	
Format	

Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Updateable of table huhzGenBldgSchemes

CKC_UPDATEABLE_HUHZGENB

Key list of the table huhzGenBldgSchemes

Name	Code
idtKey	idtKey

Key idtKey of table huhzGenBldgSchemes

Card of the key idtKey of the table huhzGenBldgSchemes

Name	idtKey
Code	idtKey
Table	huhzGenBldgSchemes

Column list of the key idtKey

Name	Code
BldgSchemesId	BldgSchemesId

Code preview of idtKey

```
alter table huhzGenBldgSchemes
   drop constraint PK_HUHZGENBLDGSCHEMES
go
```

Index list of the table huhzGenBldgSchemes

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
RLNHZGOM_HUGOM_FK	RLNHZGOM_HUGOM_FK	FALSE	FALSE	FALSE	TRUE	FALSE

Index RLNHZGOM_HUGOM_FK of table huhzGenBldgSchemes

Card of the index RLNHZGOM_HUGOM_FK of the table huhzGenBldgSchemes

Name	RLNHZGOM_HUGOM_FK
Code	RLNHZGOM_HUGOM_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huhzGenBldgSchemes

Column list of the index RLNHZGOM_HUGOM_FK

Name	Code	Sort
BldgSchemesId	BldgSchemesId	Ascending

Code preview of RLNHZGOM_HUGOM_FK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huhzGenBldgSchemes

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huhzGenBldgSchemes

```
alter table huhzGenBldgSchemes
   drop constraint FK_HUHZGENB_RLNHZGOM__HZGENBLD
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huhzGenBldgSchemes')
            and   type = 'U')
   drop table huhzGenBldgSchemes
go


/*==============================================================*/
/* Table: huhzGenBldgSchemes                                    */
/*==============================================================*/
create table huhzGenBldgSchemes (
BldgSchemesId        varchar(10)          not null,
SchemeBase           varchar(20)          null,
Updateable           bit                  null,
constraint PK_HUHZGENBLDGSCHEMES primary key  (BldgSchemesId)
)
go


alter table huhzGenBldgSchemes
   add constraint FK_HUHZGENB_RLNHZGOM__HZGENBLD foreign key (BldgSchemesId)
      references hzGenBldgSchemes (BldgSchemesId)
go
```

Table clBldgTypeHu

Card of the table clBldgTypeHu

Name	clBldgTypeHu
Code	clBldgTypeHu
DBMS	Microsoft SQL Server 2000

Constraint name of table clBldgTypeHu

CKT_CLBLDGTYPEHU

Column list of the table clBldgTypeHu

Name	Code
SbtID	SbtID
gbtDescription	gbtDescription
gbtName	gbtName

sbtDescription	sbtDescription
sbtName	sbtName

Column sbtName of table clBldgTypeHu

Card of the column sbtName of the table clBldgTypeHu

Name	sbtName
Code	sbtName
Data Type	varchar(10)
Mandatory	TRUE

Standard check of column sbtName of table clBldgTypeHu

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column sbtName of table clBldgTypeHu

CKC_SBTNAME_CLBLDGTY

Column gbtName of table clBldgTypeHu

Card of the column gbtName of the table clBldgTypeHu

Name	gbtName
Code	gbtName
Data Type	varchar(10)
Mandatory	FALSE

Standard check of column gbtName of table clBldgTypeHu

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column gbtName of table clBldgTypeHu

CKC_GBTNAME_CLBLDGTY

Column sbtDescription of table clBldgTypeHu

Card of the column sbtDescription of the table clBldgTypeHu

Name	sbtDescription
Code	sbtDescription
Data Type	char(100)
Mandatory	FALSE

Standard check of column sbtDescription of table clBldgTypeHu

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column sbtDescription of table clBldgTypeHu

CKC_SBTDESCRIPTION_CLBLDGTY

Column gbtDescription of table clBldgTypeHu

Card of the column gbtDescription of the table clBldgTypeHu

Name	gbtDescription
Code	gbtDescription
Data Type	char(100)
Mandatory	FALSE

Standard check of column gbtDescription of table clBldgTypeHu

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column gbtDescription of table clBldgTypeHu

CKC_GBTDESCRIPTION_CLBLDGTY

Column SbtID of table clBldgTypeHu

Card of the column SbtID of the table clBldgTypeHu

Name	SbtID
Code	SbtID
Data Type	smallint
Mandatory	FALSE

Standard check of column SbtID of table clBldgTypeHu

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SbtID of table clBldgTypeHu

CKC_SBTID_CLBLDGTY

Key list of the table clBldgTypeHu

Name	Code
idtsbtName	idtsbtName

Key idtsbtName of table clBldgTypeHu

Card of the key idtsbtName of the table clBldgTypeHu

Name	idtsbtName
Code	idtsbtName
Table	clBldgTypeHu

Column list of the key idtsbtName

Name	Code
sbtName	sbtName

Code preview of idtsbtName

```
alter table clBldgTypeHu
   drop constraint PK_CLBLDGTYPEHU
go
```

Index list of the table clBldgTypeHu

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
huSpecBT_PK	huSpecBT_PK	TRUE	FALSE	TRUE	FALSE	FALSE

Index huSpecBT_PK of table clBldgTypeHu

Card of the index huSpecBT_PK of the table clBldgTypeHu

Name	huSpecBT_PK
Code	huSpecBT_PK
Unique	TRUE
Cluster	FALSE
Primary	TRUE
Foreign Key	FALSE

Alternate Key	FALSE
Table	clBldgTypeHu

Column list of the index huSpecBT_PK

Name	Code	Sort
sbtName	sbtName	Ascending

Code preview of huSpecBT_PK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table clBldgTypeHu

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram
Main CDM Diagram	Main CDM Diagram
Main CDM Diagram	Main CDM Diagram
Main CDM Diagram	Main CDM Diagram
Main CDM Diagram	Main CDM Diagram
Main CDM Diagram	Main CDM Diagram
Main CDM Diagram	Main CDM Diagram
Main CDM Diagram	Main CDM Diagram

Code preview of clBldgTypeHu

```
if exists (select 1
          from  sysobjects
         where  id = object_id('clBldgTypeHu')
          and   type = 'U')
   drop table clBldgTypeHu
go


/*==============================================================*/
/* Table: clBldgTypeHu                                          */
/*==============================================================*/
create table clBldgTypeHu (
sbtName              varchar(10)          not null,
gbtName              varchar(10)          null,
sbtDescription       char(100)            null,
gbtDescription       char(100)            null,
SbtID                smallint             null,
constraint PK_CLBLDGTYPEHU primary key  (sbtName)
)
go
```

Table huOccResultsB

Card of the table huOccResultsB

Name	huOccResultsB
Code	huOccResultsB
DBMS	Microsoft SQL Server 2000

Constraint name of table huOccResultsB

CKT_HUOCCRESULTSB

Column list of the table huOccResultsB

Name	Code
At Least Minor	At_Least_Minor
At Least Moderate	At_Least_Moderate
At Least Severe	At_Least_Severe
Building	Building
CensusBlock	CensusBlock
Complete	COMPLETE
Content	Content
Income	Income
Inventory	Inventory
Minor	MINOR
Moderate	MODERATE
No Damage	No_Damage
Occupancy	Occupancy
Relocation Cost	Relocation_Cost
Rental	Rental
Return_Period	Return_Period
Severe	SEVERE
Total	Total
Wage	Wage
bCurrent	BCURRENT
huScenarioName	huScenarioName

Column CensusBlock of table huOccResultsB

Card of the column CensusBlock of the table huOccResultsB

Name	CensusBlock
Code	CensusBlock
Data Type	char(15)
Mandatory	TRUE

Standard check of column CensusBlock of table huOccResultsB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CensusBlock of table huOccResultsB

CKC_CENSUSBLOCK_HUOCCRES

Column Occupancy of table huOccResultsB

Card of the column Occupancy of the table huOccResultsB

Name	Occupancy
Code	Occupancy
Data Type	char(5)
Mandatory	TRUE

Standard check of column Occupancy of table huOccResultsB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	TRUE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Occupancy of table huOccResultsB

CKC_OCCUPANCY_HUOCCRES

Column Return_Period of table huOccResultsB

Card of the column Return_Period of the table huOccResultsB

Name	Return_Period
Code	Return_Period
Data Type	varchar(25)
Mandatory	TRUE

Standard check of column Return_Period of table huOccResultsB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Return_Period of table huOccResultsB

CKC_RETURN_PERIOD_HUOCCRES

Column Total of table huOccResultsB

Card of the column Total of the table huOccResultsB

Name	Total
Code	Total
Data Type	real
Mandatory	FALSE

Standard check of column Total of table huOccResultsB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Total of table huOccResultsB

CKC_TOTAL_HUOCCRES

Column Building of table huOccResultsB

Card of the column Building of the table huOccResultsB

Name	Building
Code	Building
Data Type	real
Mandatory	FALSE

Standard check of column Building of table huOccResultsB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Building of table huOccResultsB

CKC_BUILDING_HUOCCRES

Column Content of table huOccResultsB

Card of the column Content of the table huOccResultsB

Name	Content
Code	Content
Data Type	real
Mandatory	FALSE

Standard check of column Content of table huOccResultsB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE

Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Content of table huOccResultsB

CKC_CONTENT_HUOCCRES

Column Inventory of table huOccResultsB

Card of the column Inventory of the table huOccResultsB

Name	Inventory
Code	Inventory
Data Type	real
Mandatory	FALSE

Standard check of column Inventory of table huOccResultsB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Inventory of table huOccResultsB

CKC_INVENTORY_HUOCCRES

Column Relocation Cost of table huOccResultsB

Card of the column Relocation Cost of the table huOccResultsB

Name	Relocation Cost
Code	Relocation_Cost
Data Type	real
Mandatory	FALSE

Standard check of column Relocation Cost of table huOccResultsB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Relocation Cost of table huOccResultsB

CKC_RELOCATION_COST_HUOCCRES

Column Income of table huOccResultsB

Card of the column Income of the table huOccResultsB

Name	Income
Code	Income
Data Type	real
Mandatory	FALSE

Standard check of column Income of table huOccResultsB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Income of table huOccResultsB

CKC_INCOME_HUOCCRES

Column Rental of table huOccResultsB

Card of the column Rental of the table huOccResultsB

Name	Rental
Code	Rental
Data Type	real
Mandatory	FALSE

Standard check of column Rental of table huOccResultsB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Rental of table huOccResultsB

CKC_RENTAL_HUOCCRES

Column Wage of table huOccResultsB

Card of the column Wage of the table huOccResultsB

Name	Wage
Code	Wage
Data Type	real
Mandatory	FALSE

Standard check of column Wage of table huOccResultsB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Wage of table huOccResultsB

CKC_WAGE_HUOCCRES

Column No Damage of table huOccResultsB

Card of the column No Damage of the table huOccResultsB

Name	No Damage
Code	No_Damage
Data Type	real
Mandatory	FALSE

Standard check of column No Damage of table huOccResultsB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column No Damage of table huOccResultsB

CKC_NO_DAMAGE_HUOCCRES

Column Minor of table huOccResultsB

Card of the column Minor of the table huOccResultsB

Name	Minor
Code	MINOR
Data Type	real
Mandatory	FALSE

Standard check of column Minor of table huOccResultsB

Low value	
High value	
Default value	0
Unit	
Format	

Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Minor of table huOccResultsB

CKC_MINOR_HUOCCRES

Column At Least Minor of table huOccResultsB

Card of the column At Least Minor of the table huOccResultsB

Name	At Least Minor
Code	At_Least_Minor
Data Type	real
Mandatory	FALSE

Standard check of column At Least Minor of table huOccResultsB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column At Least Minor of table huOccResultsB

CKC_AT_LEAST_MINOR_HUOCCRES

Column Moderate of table huOccResultsB

Card of the column Moderate of the table huOccResultsB

Name	Moderate
Code	MODERATE
Data Type	real
Mandatory	FALSE

Standard check of column Moderate of table huOccResultsB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Moderate of table huOccResultsB

CKC_MODERATE_HUOCCRES

Column At Least Moderate of table huOccResultsB

Card of the column At Least Moderate of the table huOccResultsB

Name	At Least Moderate
Code	At_Least_Moderate
Data Type	real
Mandatory	FALSE

Standard check of column At Least Moderate of table huOccResultsB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column At Least Moderate of table huOccResultsB

CKC_AT_LEAST_MODERATE_HUOCCRES

Column Severe of table huOccResultsB

Card of the column Severe of the table huOccResultsB

Name	Severe
Code	SEVERE
Data Type	real
Mandatory	FALSE

Standard check of column Severe of table huOccResultsB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Severe of table huOccResultsB

CKC_SEVERE_HUOCCRES

Column At Least Severe of table huOccResultsB

Card of the column At Least Severe of the table huOccResultsB

Name	At Least Severe
Code	At_Least_Severe

Data Type	real
Mandatory	FALSE

Standard check of column At Least Severe of table huOccResultsB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column At Least Severe of table huOccResultsB

CKC_AT_LEAST_SEVERE_HUOCCRES

Column Complete of table huOccResultsB

Card of the column Complete of the table huOccResultsB

Name	Complete
Code	COMPLETE
Data Type	real
Mandatory	FALSE

Standard check of column Complete of table huOccResultsB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Complete of table huOccResultsB

CKC_COMPLETE_HUOCCRES

Column bCurrent of table huOccResultsB

Card of the column bCurrent of the table huOccResultsB

Name	bCurrent
Code	BCURRENT
Data Type	bit
Mandatory	FALSE

Standard check of column bCurrent of table huOccResultsB

Low value	
High value	
Default value	

Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column bCurrent of table huOccResultsB

CKC_BCURRENT_HUOCCRES

Column huScenarioName of table huOccResultsB

Card of the column huScenarioName of the table huOccResultsB

Name	huScenarioName
Code	huScenarioName
Data Type	varchar(40)
Mandatory	FALSE

Standard check of column huScenarioName of table huOccResultsB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column huScenarioName of table huOccResultsB

CKC_HUSCENARIONAME_HUOCCRES

Key list of the table huOccResultsB

Name	Code
AK1_BlockOccRlts	AK1_BlockOccRlts
Key_2	Key_2

Key AK1_BlockOccRlts of table huOccResultsB

Card of the key AK1_BlockOccRlts of the table huOccResultsB

Name	AK1_BlockOccRlts
Code	AK1_BlockOccRlts
Table	huOccResultsB

Column list of the key AK1_BlockOccRlts

Name	Code
Occupancy	Occupancy
Return_Period	Return_Period
CensusBlock	CensusBlock

Code preview of AK1_BlockOccRlts

```
alter table huOccResultsB
  drop constraint AK_AK1_BLOCKOCCRLTS_HUOCCRES
go
```

Key Key_2 of table huOccResultsB

Card of the key Key_2 of the table huOccResultsB

Name	Key_2
Code	Key_2
Table	huOccResultsB

Column list of the key Key_2

Name	Code
CensusBlock	CensusBlock
Occupancy	Occupancy
Return_Period	Return_Period

Code preview of Key_2

```
alter table huOccResultsB
  drop constraint PK_HUOCCRESULTSB
go
```

Index list of the table huOccResultsB

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
RLNBLOCK_HUSOCCRLTSDETR_FK	RLNBLOCK_HUSOCCRLTSDETR_FK	FALSE	FALSE	FALSE	TRUE	FALSE
RLNHUOCC_HURLTSDETRB_FK	RLNHUOCC_HURLTSDETRB_FK	FALSE	FALSE	FALSE	TRUE	FALSE
RLNRP_OCCRLTSB_FK	RLNRP_OCCRLTSB_FK	FALSE	FALSE	FALSE	TRUE	FALSE

Index RLNBLOCK_HUSOCCRLTSDETR_FK of table huOccResultsB

Card of the index RLNBLOCK_HUSOCCRLTSDETR_FK of the table huOccResultsB

Name	RLNBLOCK_HUSOCCRLTSDETR_FK
Code	RLNBLOCK_HUSOCCRLTSDETR_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huOccResultsB

Column list of the index RLNBLOCK_HUSOCCRLTSDETR_FK

Name	Code	Sort
CensusBlock	CensusBlock	Ascending

Code preview of RLNBLOCK_HUSOCCRLTSDETR_FK

The preview is empty because of the setting.
Check the generation option.

Index RLNHUOCC_HURLTSDETRB_FK of table huOccResultsB

Card of the index RLNHUOCC_HURLTSDETRB_FK of the table huOccResultsB

Name	RLNHUOCC_HURLTSDETRB_FK
Code	RLNHUOCC_HURLTSDETRB_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huOccResultsB

Column list of the index RLNHUOCC_HURLTSDETRB_FK

Name	Code	Sort
Occupancy	Occupancy	Ascending

Code preview of RLNHUOCC_HURLTSDETRB_FK

The preview is empty because of the setting.
Check the generation option.

Index RLNRP_OCCRLTSB_FK of table huOccResultsB

Card of the index RLNRP_OCCRLTSB_FK of the table huOccResultsB

Name	RLNRP_OCCRLTSB_FK
Code	RLNRP_OCCRLTSB_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huOccResultsB

Column list of the index RLNRP_OCCRLTSB_FK

Name	Code	Sort
Return_Period	Return_Period	Ascending

Code preview of RLNRP_OCCRLTSB_FK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huOccResultsB

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huOccResultsB

alter table huOccResultsB

```
  drop constraint FK_HUOCCRES_RLNBLOCK__HZCENSUS
go


alter table huOccResultsB
  drop constraint FK_HUOCCRES_RLNHUOCC__CLSOCCHZ2
go


alter table huOccResultsB
  drop constraint FK_HUOCCRES_RLNRP_OCC_HURETURN2
go


if exists (select 1
          from  sysobjects
         where  id = object_id('huOccResultsB')
          and   type = 'U')
  drop table huOccResultsB
go


/*==============================================================*/
/* Table: huOccResultsB                                         */
/*==============================================================*/
create table huOccResultsB (
CensusBlock         char(15)            not null,
Occupancy           char(5)             not null,
Return_Period       varchar(25)         not null,
Total               real                null default 0,
Building            real                null default 0,
Content             real                null default 0,
Inventory           real                null default 0,
Relocation_Cost     real                null default 0,
Income              real                null default 0,
Rental              real                null default 0,
Wage                real                null default 0,
No_Damage           real                null default 0,
MINOR               real                null default 0,
At_Least_Minor      real                null default 0,
MODERATE            real                null default 0,
At_Least_Moderate   real                null default 0,
SEVERE              real                null default 0,
At_Least_Severe     real                null default 0,
COMPLETE            real                null default 0,
BCURRENT            bit                 null,
huScenarioName      varchar(40)         null,
constraint PK_HUOCCRESULTSB primary key  (CensusBlock, Occupancy, Return_Period),
constraint AK_AK1_BLOCKOCCRLTS_HUOCCRES unique (Occupancy, Return_Period, CensusBlock)
)
go


alter table huOccResultsB
  add constraint FK_HUOCCRES_RLNBLOCK__HZCENSUS foreign key (CensusBlock)
    references hzCensusBlock (CensusBlock)
    on delete cascade on update cascade
go


alter table huOccResultsB
  add constraint FK_HUOCCRES_RLNHUOCC__CLSOCCHZ2 foreign key (Occupancy)
    references clOccupancy (Occupancy)
```

```
    on delete cascade on update cascade
go


alter table huOccResultsB
  add constraint FK_HUOCCRES_RLNRP_OCC_HURETURN2 foreign key (Return_Period)
    references huReturn_Periods (Return_Period)
go
```

Table huOccResultsT

Card of the table huOccResultsT

Name	huOccResultsT
Code	huOccResultsT
DBMS	Microsoft SQL Server 2000

Constraint name of table huOccResultsT

CKT_HUOCCRESULTST

Column list of the table huOccResultsT

Name	Code
At Least Minor	At_Least_Minor
At Least Moderate	At_Least_Moderate
At Least Severe	At_Least_Severe
Building	Building
Complete	COMPLETE
Content	Content
Income	Income
Inventory	Inventory
Minor	MINOR
Moderate	MODERATE
No Damage	No_Damage
Occupancy	Occupancy
Relocation Cost	Relocation_Cost
Rental	Rental
Return_Period	Return_Period
Severe	SEVERE
Total	Total
Tract	TRACT
Wage	Wage
bCurrent	BCURRENT
huScenarioName	huScenarioName

Column Tract of table huOccResultsT

Card of the column Tract of the table huOccResultsT

Name	Tract
Code	TRACT
Data Type	char(11)
Mandatory	TRUE

Standard check of column Tract of table huOccResultsT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Tract of table huOccResultsT

CKC_TRACT_HUOCCRES

Column Occupancy of table huOccResultsT

Card of the column Occupancy of the table huOccResultsT

Name	Occupancy
Code	Occupancy
Data Type	char(5)
Mandatory	TRUE

Standard check of column Occupancy of table huOccResultsT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	TRUE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Occupancy of table huOccResultsT

CKC_OCCUPANCY_HUOCCRES

Column Return_Period of table huOccResultsT

Card of the column Return_Period of the table huOccResultsT

Name	Return_Period
Code	Return_Period
Data Type	varchar(25)
Mandatory	TRUE

Standard check of column Return_Period of table huOccResultsT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE

Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Return_Period of table huOccResultsT

CKC_RETURN_PERIOD_HUOCCRES

Column Total of table huOccResultsT

Card of the column Total of the table huOccResultsT

Name	Total
Code	Total
Data Type	real
Mandatory	FALSE

Standard check of column Total of table huOccResultsT

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Total of table huOccResultsT

CKC_TOTAL_HUOCCRES

Column Building of table huOccResultsT

Card of the column Building of the table huOccResultsT

Name	Building
Code	Building
Data Type	real
Mandatory	FALSE

Standard check of column Building of table huOccResultsT

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Building of table huOccResultsT

CKC_BUILDING_HUOCCRES

Column Content of table huOccResultsT

Card of the column Content of the table huOccResultsT

Name	Content
Code	Content
Data Type	real
Mandatory	FALSE

Standard check of column Content of table huOccResultsT

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Content of table huOccResultsT

CKC_CONTENT_HUOCCRES

Column Inventory of table huOccResultsT

Card of the column Inventory of the table huOccResultsT

Name	Inventory
Code	Inventory
Data Type	real
Mandatory	FALSE

Standard check of column Inventory of table huOccResultsT

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Inventory of table huOccResultsT

CKC_INVENTORY_HUOCCRES

Column Relocation Cost of table huOccResultsT

Card of the column Relocation Cost of the table huOccResultsT

Name	Relocation Cost
Code	Relocation_Cost
Data Type	real
Mandatory	FALSE

Standard check of column Relocation Cost of table huOccResultsT

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Relocation Cost of table huOccResultsT

CKC_RELOCATION_COST_HUOCCRES

Column Income of table huOccResultsT

Card of the column Income of the table huOccResultsT

Name	Income
Code	Income
Data Type	real
Mandatory	FALSE

Standard check of column Income of table huOccResultsT

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Income of table huOccResultsT

CKC_INCOME_HUOCCRES

Column Rental of table huOccResultsT

Card of the column Rental of the table huOccResultsT

Name	Rental
Code	Rental
Data Type	real
Mandatory	FALSE

Standard check of column Rental of table huOccResultsT

Low value	
High value	
Default value	0
Unit	

Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Rental of table huOccResultsT

CKC_RENTAL_HUOCCRES

Column Wage of table huOccResultsT

Card of the column Wage of the table huOccResultsT

Name	Wage
Code	Wage
Data Type	real
Mandatory	FALSE

Standard check of column Wage of table huOccResultsT

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Wage of table huOccResultsT

CKC_WAGE_HUOCCRES

Column No Damage of table huOccResultsT

Card of the column No Damage of the table huOccResultsT

Name	No Damage
Code	No_Damage
Data Type	real
Mandatory	FALSE

Standard check of column No Damage of table huOccResultsT

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column No Damage of table huOccResultsT

CKC_NO_DAMAGE_HUOCCRES

Column Minor of table huOccResultsT

Card of the column Minor of the table huOccResultsT

Name	Minor
Code	MINOR
Data Type	real
Mandatory	FALSE

Standard check of column Minor of table huOccResultsT

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Minor of table huOccResultsT

CKC_MINOR_HUOCCRES

Column At Least Minor of table huOccResultsT

Card of the column At Least Minor of the table huOccResultsT

Name	At Least Minor
Code	At_Least_Minor
Data Type	real
Mandatory	FALSE

Standard check of column At Least Minor of table huOccResultsT

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column At Least Minor of table huOccResultsT

CKC_AT_LEAST_MINOR_HUOCCRES

Column Moderate of table huOccResultsT

Card of the column Moderate of the table huOccResultsT

Name	Moderate
Code	MODERATE
Data Type	real
Mandatory	FALSE

Standard check of column Moderate of table huOccResultsT

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Moderate of table huOccResultsT

CKC_MODERATE_HUOCCRES

Column At Least Moderate of table huOccResultsT

Card of the column At Least Moderate of the table huOccResultsT

Name	At Least Moderate
Code	At_Least_Moderate
Data Type	real
Mandatory	FALSE

Standard check of column At Least Moderate of table huOccResultsT

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column At Least Moderate of table huOccResultsT

CKC_AT_LEAST_MODERATE_HUOCCRES

Column Severe of table huOccResultsT

Card of the column Severe of the table huOccResultsT

Name	Severe
Code	SEVERE
Data Type	real
Mandatory	FALSE

Standard check of column Severe of table huOccResultsT

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Severe of table huOccResultsT

CKC_SEVERE_HUOCCRES

Column At Least Severe of table huOccResultsT

Card of the column At Least Severe of the table huOccResultsT

Name	At Least Severe
Code	At_Least_Severe
Data Type	real
Mandatory	FALSE

Standard check of column At Least Severe of table huOccResultsT

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column At Least Severe of table huOccResultsT

CKC_AT_LEAST_SEVERE_HUOCCRES

Column Complete of table huOccResultsT

Card of the column Complete of the table huOccResultsT

Name	Complete
Code	COMPLETE
Data Type	real
Mandatory	FALSE

Standard check of column Complete of table huOccResultsT

Low value	
High value	
Default value	0
Unit	
Format	

Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Complete of table huOccResultsT

CKC_COMPLETE_HUOCCRES

Column bCurrent of table huOccResultsT

Card of the column bCurrent of the table huOccResultsT

Name	bCurrent
Code	BCURRENT
Data Type	bit
Mandatory	FALSE

Standard check of column bCurrent of table huOccResultsT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column bCurrent of table huOccResultsT

CKC_BCURRENT_HUOCCRES

Column huScenarioName of table huOccResultsT

Card of the column huScenarioName of the table huOccResultsT

Name	huScenarioName
Code	huScenarioName
Data Type	varchar(40)
Mandatory	FALSE

Standard check of column huScenarioName of table huOccResultsT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column huScenarioName of table huOccResultsT

CKC_HUSCENARIONAME_HUOCCRES

Key list of the table huOccResultsT

Name	Code
AK1_TractOccDamRlts	AK1_TractOccDamRlts
Key_2	Key_2

Key AK1_TractOccDamRlts of table huOccResultsT

Card of the key AK1_TractOccDamRlts of the table huOccResultsT

Name	AK1_TractOccDamRlts
Code	AK1_TractOccDamRlts
Table	huOccResultsT

Column list of the key AK1_TractOccDamRlts

Name	Code
Occupancy	Occupancy
Return_Period	Return_Period
Tract	TRACT

Code preview of AK1_TractOccDamRlts

```
alter table huOccResultsT
  drop constraint AK_AK1_TRACTOCCDAMRLT_HUOCCRES
go
```

Key Key_2 of table huOccResultsT

Card of the key Key_2 of the table huOccResultsT

Name	Key_2
Code	Key_2
Table	huOccResultsT

Column list of the key Key_2

Name	Code
Tract	TRACT
Occupancy	Occupancy
Return_Period	Return_Period

Code preview of Key_2

```
alter table huOccResultsT
  drop constraint PK_HUOCCRESULTST
go
```

Index list of the table huOccResultsT

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
RLNTRACT_HUSOCCRLTS DETR_FK	RLNTRACT_HUSOCCRLTS DETR_FK	FALSE	FALSE	FALSE	TRUE	FALSE

RLNHUOCC_HURLTSDETR_FK	RLNHUOCC_HURLTSDETR_FK	FALSE	FALSE	FALSE	TRUE	FALSE
RLNRP_OCCRLTS_FK	RLNRP_OCCRLTS_FK	FALSE	FALSE	FALSE	TRUE	FALSE

Index RLNTRACT_HUSOCCRLTSDETR_FK of table huOccResultsT

Card of the index RLNTRACT_HUSOCCRLTSDETR_FK of the table huOccResultsT

Name	RLNTRACT_HUSOCCRLTSDETR_FK
Code	RLNTRACT_HUSOCCRLTSDETR_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huOccResultsT

Column list of the index RLNTRACT_HUSOCCRLTSDETR_FK

Name	Code	Sort
Tract	TRACT	Ascending

Code preview of RLNTRACT_HUSOCCRLTSDETR_FK

The preview is empty because of the setting.
Check the generation option.

Index RLNHUOCC_HURLTSDETR_FK of table huOccResultsT

Card of the index RLNHUOCC_HURLTSDETR_FK of the table huOccResultsT

Name	RLNHUOCC_HURLTSDETR_FK
Code	RLNHUOCC_HURLTSDETR_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huOccResultsT

Column list of the index RLNHUOCC_HURLTSDETR_FK

Name	Code	Sort
Occupancy	Occupancy	Ascending

Code preview of RLNHUOCC_HURLTSDETR_FK

The preview is empty because of the setting.
Check the generation option.

Index RLNRP_OCCRLTS_FK of table huOccResultsT

Card of the index RLNRP_OCCRLTS_FK of the table huOccResultsT

Name	RLNRP_OCCRLTS_FK
Code	RLNRP_OCCRLTS_FK
Unique	FALSE
Cluster	FALSE

Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huOccResultsT

Column list of the index RLNRP_OCCRLTS_FK

Name	Code	Sort
Return_Period	Return_Period	Ascending

Code preview of RLNRP_OCCRLTS_FK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huOccResultsT

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huOccResultsT

```
alter table huOccResultsT
   drop constraint FK_HUOCCRES_RLNTRACT__HZTRACT
go


alter table huOccResultsT
   drop constraint FK_HUOCCRES_RLNHUOCC__CLOCCUPA
go


alter table huOccResultsT
   drop constraint FK_HUOCCRES_RLNRP_OCC_HURETURN
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huOccResultsT')
            and   type = 'U')
   drop table huOccResultsT
go


/*==============================================================*/
/* Table: huOccResultsT                                         */
/*==============================================================*/
create table huOccResultsT (
TRACT              char(11)           not null,
Occupancy          char(5)            not null,
Return_Period      varchar(25)        not null,
Total              real               null default 0,
Building           real               null default 0,
Content            real               null default 0,
Inventory          real               null default 0,
Relocation_Cost    real               null default 0,
Income             real               null default 0,
Rental             real               null default 0,
Wage               real               null default 0,
No_Damage          real               null default 0,
```

```
MINOR              real              null default 0,
At_Least_Minor     real              null default 0,
MODERATE           real              null default 0,
At_Least_Moderate  real              null default 0,
SEVERE             real              null default 0,
At_Least_Severe    real              null default 0,
COMPLETE           real              null default 0,
BCURRENT           bit               null,
huScenarioName     varchar(40)       null,
constraint PK_HUOCCRESULTST primary key  (TRACT, Occupancy, Return_Period),
constraint AK_AK1_TRACTOCCDAMRLT_HUOCCRES unique (Occupancy, Return_Period, TRACT)
)
go


alter table huOccResultsT
  add constraint FK_HUOCCRES_RLNTRACT__HZTRACT foreign key (TRACT)
    references hzTract (Tract)
    on delete cascade on update cascade
go


alter table huOccResultsT
  add constraint FK_HUOCCRES_RLNHUOCC__CLOCCUPA foreign key (Occupancy)
    references clOccupancy (Occupancy)
    on delete cascade on update cascade
go


alter table huOccResultsT
  add constraint FK_HUOCCRES_RLNRP_OCC_HURETURN foreign key (Return_Period)
    references huReturn_Periods (Return_Period)
go
```

Table huResultsCareFlty

Card of the table huResultsCareFlty

Name	huResultsCareFlty
Code	huResultsCareFlty
DBMS	Microsoft SQL Server 2000

Constraint name of table huResultsCareFlty

CKT_HURESULTSCAREFLTY

Column list of the table huResultsCareFlty

Name	Code
CareFltyId	CareFltyId
Complete	COMPLETE
LossOfUse	LossOfUse
Minor	MINOR
Moderate	MODERATE
Return_Period	Return_Period
Severe	SEVERE
bCurrent	BCURRENT
huScenarioName	huScenarioName

Column CareFltyId of table huResultsCareFlty

Card of the column CareFltyId of the table huResultsCareFlty

Name	CareFltyId
Code	CareFltyId
Data Type	char(8)
Mandatory	TRUE

Standard check of column CareFltyId of table huResultsCareFlty

Low value	
High value	
Default value	
Unit	
Format	AA999999
Upper case	TRUE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CareFltyId of table huResultsCareFlty

CKC_CAREFLTYID_HURESULT

Column Return_Period of table huResultsCareFlty

Card of the column Return_Period of the table huResultsCareFlty

Name	Return_Period
Code	Return_Period
Data Type	varchar(25)
Mandatory	TRUE

Standard check of column Return_Period of table huResultsCareFlty

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Return_Period of table huResultsCareFlty

CKC_RETURN_PERIOD_HURESULT

Column bCurrent of table huResultsCareFlty

Card of the column bCurrent of the table huResultsCareFlty

Name	bCurrent
Code	BCURRENT

Data Type	bit
Mandatory	FALSE

Standard check of column bCurrent of table huResultsCareFlty

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column bCurrent of table huResultsCareFlty

CKC_BCURRENT_HURESULT

Column LossOfUse of table huResultsCareFlty

Card of the column LossOfUse of the table huResultsCareFlty

Name	LossOfUse
Code	LossOfUse
Data Type	real
Mandatory	FALSE

Standard check of column LossOfUse of table huResultsCareFlty

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column LossOfUse of table huResultsCareFlty

CKC_LOSSOFUSE_HURESULT

Column Minor of table huResultsCareFlty

Card of the column Minor of the table huResultsCareFlty

Name	Minor
Code	MINOR
Data Type	real
Mandatory	FALSE

Standard check of column Minor of table huResultsCareFlty

Low value	
High value	
Default value	0

Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Minor of table huResultsCareFlty

CKC_MINOR_HURESULT

Column Moderate of table huResultsCareFlty

Card of the column Moderate of the table huResultsCareFlty

Name	Moderate
Code	MODERATE
Data Type	real
Mandatory	FALSE

Standard check of column Moderate of table huResultsCareFlty

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Moderate of table huResultsCareFlty

CKC_MODERATE_HURESULT

Column Severe of table huResultsCareFlty

Card of the column Severe of the table huResultsCareFlty

Name	Severe
Code	SEVERE
Data Type	real
Mandatory	FALSE

Standard check of column Severe of table huResultsCareFlty

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Severe of table huResultsCareFlty

CKC_SEVERE_HURESULT

Column Complete of table huResultsCareFlty

Card of the column Complete of the table huResultsCareFlty

Name	Complete
Code	COMPLETE
Data Type	real
Mandatory	FALSE

Standard check of column Complete of table huResultsCareFlty

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Complete of table huResultsCareFlty

CKC_COMPLETE_HURESULT

Column huScenarioName of table huResultsCareFlty

Card of the column huScenarioName of the table huResultsCareFlty

Name	huScenarioName
Code	huScenarioName
Data Type	varchar(40)
Mandatory	FALSE

Standard check of column huScenarioName of table huResultsCareFlty

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column huScenarioName of table huResultsCareFlty

CKC_HUSCENARIONAME_HURESULT

Key list of the table huResultsCareFlty

Name	Code
idtKey	idtKey

Key idtKey of table huResultsCareFlty

Card of the key idtKey of the table huResultsCareFlty

Name	idtKey
Code	idtKey
Table	huResultsCareFlty

Column list of the key idtKey

Name	Code
CareFltyId	CareFltyId
Return_Period	Return_Period

Code preview of idtKey

```
alter table huResultsCareFlty
  drop constraint PK_HURESULTSCAREFLTY
go
```

Index list of the table huResultsCareFlty

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
RLNHURP_RLTSCF2_FK	RLNHURP_RLTSCF2_FK	FALSE	FALSE	FALSE	TRUE	FALSE
RLNHZCF_HURLTSCF2_FK	RLNHZCF_HURLTSCF2_FK	FALSE	FALSE	FALSE	TRUE	FALSE

Index RLNHURP_RLTSCF2_FK of table huResultsCareFlty

Card of the index RLNHURP_RLTSCF2_FK of the table huResultsCareFlty

Name	RLNHURP_RLTSCF2_FK
Code	RLNHURP_RLTSCF2_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huResultsCareFlty

Column list of the index RLNHURP_RLTSCF2_FK

Name	Code	Sort
Return_Period	Return_Period	Ascending

Code preview of RLNHURP_RLTSCF2_FK

The preview is empty because of the setting.
Check the generation option.

Index RLNHZCF_HURLTSCF2_FK of table huResultsCareFlty

Card of the index RLNHZCF_HURLTSCF2_FK of the table huResultsCareFlty

Name	RLNHZCF_HURLTSCF2_FK
Code	RLNHZCF_HURLTSCF2_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huResultsCareFlty

Column list of the index RLNHZCF_HURLTSCF2_FK

Name	Code	Sort
CareFltyId	CareFltyId	Ascending

Code preview of RLNHZCF_HURLTSCF2_FK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huResultsCareFlty

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huResultsCareFlty

```
alter table huResultsCareFlty
   drop constraint FK_HURESULT_RLNHURP_hucf
go


alter table huResultsCareFlty
   drop constraint FK_HURESULT_RLNHZCF_H_HZCAREFL
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huResultsCareFlty')
            and   type = 'U')
   drop table huResultsCareFlty
go


/*==============================================================*/
/* Table: huResultsCareFlty                                     */
/*==============================================================*/
create table huResultsCareFlty (
CareFltyId          char(8)             not null,
Return_Period       varchar(25)         not null,
BCURRENT            bit                 null,
LossOfUse           real                null default 0,
MINOR               real                null default 0,
MODERATE            real                null default 0,
SEVERE              real                null default 0,
COMPLETE            real                null default 0,
huScenarioName      varchar(40)         null,
constraint PK_HURESULTSCAREFLTY primary key  (CareFltyId, Return_Period)
)
go
```

```
alter table huResultsCareFlty
  add constraint FK_HURESULT_RLNHURP_hucf foreign key (Return_Period)
    references huReturn_Periods (Return_Period)
    on delete cascade on update cascade
go

alter table huResultsCareFlty
  add constraint FK_HURESULT_RLNHZCF_H_HZCAREFL foreign key (CareFltyId)
    references hzCareFlty (CareFltyId)
    on delete cascade on update cascade
go
```

Table huResultsEmergCtr

Card of the table huResultsEmergCtr

Name	huResultsEmergCtr
Code	huResultsEmergCtr
DBMS	Microsoft SQL Server 2000

Constraint name of table huResultsEmergCtr

CKT_HURESULTSEMERGCTR

Column list of the table huResultsEmergCtr

Name	Code
Complete	COMPLETE
EocId	EocId
LossOfUse	LossOfUse
Minor	MINOR
Moderate	MODERATE
Return_Period	Return_Period
Severe	SEVERE
bCurrent	BCURRENT
huScenarioName	huScenarioName

Column EocId of table huResultsEmergCtr

Card of the column EocId of the table huResultsEmergCtr

Name	EocId
Code	EocId
Data Type	char(8)
Mandatory	TRUE

Standard check of column EocId of table huResultsEmergCtr

Low value	
High value	
Default value	
Unit	
Format	AA999999
Upper case	TRUE

Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column EocId of table huResultsEmergCtr

CKC_EOCID_HURESULT

Column Return_Period of table huResultsEmergCtr

Card of the column Return_Period of the table huResultsEmergCtr

Name	Return_Period
Code	Return_Period
Data Type	varchar(25)
Mandatory	TRUE

Standard check of column Return_Period of table huResultsEmergCtr

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Return_Period of table huResultsEmergCtr

CKC_RETURN_PERIOD_HURESULT

Column bCurrent of table huResultsEmergCtr

Card of the column bCurrent of the table huResultsEmergCtr

Name	bCurrent
Code	BCURRENT
Data Type	bit
Mandatory	FALSE

Standard check of column bCurrent of table huResultsEmergCtr

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column bCurrent of table huResultsEmergCtr

CKC_BCURRENT_HURESULT

Column LossOfUse of table huResultsEmergCtr

Card of the column LossOfUse of the table huResultsEmergCtr

Name	LossOfUse
Code	LossOfUse
Data Type	real
Mandatory	FALSE

Standard check of column LossOfUse of table huResultsEmergCtr

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column LossOfUse of table huResultsEmergCtr

CKC_LOSSOFUSE_HURESULT

Column Minor of table huResultsEmergCtr

Card of the column Minor of the table huResultsEmergCtr

Name	Minor
Code	MINOR
Data Type	real
Mandatory	FALSE

Standard check of column Minor of table huResultsEmergCtr

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Minor of table huResultsEmergCtr

CKC_MINOR_HURESULT

Column Moderate of table huResultsEmergCtr

Card of the column Moderate of the table huResultsEmergCtr

Name	Moderate
Code	MODERATE

Data Type	real
Mandatory	FALSE

Standard check of column Moderate of table huResultsEmergCtr

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Moderate of table huResultsEmergCtr

CKC_MODERATE_HURESULT

Column Severe of table huResultsEmergCtr

Card of the column Severe of the table huResultsEmergCtr

Name	Severe
Code	SEVERE
Data Type	real
Mandatory	FALSE

Standard check of column Severe of table huResultsEmergCtr

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Severe of table huResultsEmergCtr

CKC_SEVERE_HURESULT

Column Complete of table huResultsEmergCtr

Card of the column Complete of the table huResultsEmergCtr

Name	Complete
Code	COMPLETE
Data Type	real
Mandatory	FALSE

Standard check of column Complete of table huResultsEmergCtr

Low value	
High value	
Default value	0

Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Complete of table huResultsEmergCtr

CKC_COMPLETE_HURESULT

Column huScenarioName of table huResultsEmergCtr

Card of the column huScenarioName of the table huResultsEmergCtr

Name	huScenarioName
Code	huScenarioName
Data Type	varchar(40)
Mandatory	FALSE

Standard check of column huScenarioName of table huResultsEmergCtr

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column huScenarioName of table huResultsEmergCtr

CKC_HUSCENARIONAME_HURESULT

Key list of the table huResultsEmergCtr

Name	Code
idtKey	idtKey

Key idtKey of table huResultsEmergCtr

Card of the key idtKey of the table huResultsEmergCtr

Name	idtKey
Code	idtKey
Table	huResultsEmergCtr

Column list of the key idtKey

Name	Code
EocId	EocId
Return_Period	Return_Period

Code preview of idtKey

```
alter table huResultsEmergCtr
   drop constraint PK_HURESULTSEMERGCTR
go
```

Index list of the table huResultsEmergCtr

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
RLNHURP_RLTSEC2_FK	RLNHURP_RLTSEC2_FK	FALSE	FALSE	FALSE	TRUE	FALSE
RLNHZEC_HURLTSEC2_FK	RLNHZEC_HURLTSEC2_FK	FALSE	FALSE	FALSE	TRUE	FALSE

Index RLNHURP_RLTSEC2_FK of table huResultsEmergCtr

Card of the index RLNHURP_RLTSEC2_FK of the table huResultsEmergCtr

Name	RLNHURP_RLTSEC2_FK
Code	RLNHURP_RLTSEC2_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huResultsEmergCtr

Column list of the index RLNHURP_RLTSEC2_FK

Name	Code	Sort
Return_Period	Return_Period	Ascending

Code preview of RLNHURP_RLTSEC2_FK

The preview is empty because of the setting.
Check the generation option.

Index RLNHZEC_HURLTSEC2_FK of table huResultsEmergCtr

Card of the index RLNHZEC_HURLTSEC2_FK of the table huResultsEmergCtr

Name	RLNHZEC_HURLTSEC2_FK
Code	RLNHZEC_HURLTSEC2_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huResultsEmergCtr

Column list of the index RLNHZEC_HURLTSEC2_FK

Name	Code	Sort
EocId	EocId	Ascending

Code preview of RLNHZEC_HURLTSEC2_FK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huResultsEmergCtr

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huResultsEmergCtr

```
alter table huResultsEmergCtr
   drop constraint FK_HURESULT_RLNHURP_huec
go


alter table huResultsEmergCtr
   drop constraint FK_HURESULT_RLNHZEC_H_HZEMERGE
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huResultsEmergCtr')
            and   type = 'U')
   drop table huResultsEmergCtr
go


/*==============================================================*/
/* Table: huResultsEmergCtr                                     */
/*==============================================================*/
create table huResultsEmergCtr (
EocId               char(8)             not null,
Return_Period       varchar(25)         not null,
BCURRENT            bit                 null,
LossOfUse           real                null default 0,
MINOR               real                null default 0,
MODERATE            real                null default 0,
SEVERE              real                null default 0,
COMPLETE            real                null default 0,
huScenarioName      varchar(40)         null,
constraint PK_HURESULTSEMERGCTR primary key  (EocId, Return_Period)
)
go


alter table huResultsEmergCtr
   add constraint FK_HURESULT_RLNHURP_huec foreign key (Return_Period)
      references huReturn_Periods (Return_Period)
      on delete cascade on update cascade
go


alter table huResultsEmergCtr
   add constraint FK_HURESULT_RLNHZEC_H_HZEMERGE foreign key (EocId)
      references hzEmergencyCtr (EocId)
      on delete cascade on update cascade
go
```

Table huResultsFireStation

Card of the table huResultsFireStation

Name	huResultsFireStation
Code	huResultsFireStation
DBMS	Microsoft SQL Server 2000

Constraint name of table huResultsFireStation

CKT_HURESULTSFIRESTATION

Column list of the table huResultsFireStation

Name	Code
Complete	COMPLETE
FireStationId	FireStationId
LossOfUse	LossOfUse
Minor	MINOR
Moderate	MODERATE
Return_Period	Return_Period
Severe	SEVERE
bCurrent	BCURRENT
huScenarioName	huScenarioName

Column FireStationId of table huResultsFireStation

Card of the column FireStationId of the table huResultsFireStation

Name	FireStationId
Code	FireStationId
Data Type	char(8)
Mandatory	TRUE

Standard check of column FireStationId of table huResultsFireStation

Low value	
High value	
Default value	
Unit	
Format	AA999999
Upper case	TRUE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column FireStationId of table huResultsFireStation

CKC_FIRESTATIONID_HURESULT

Column Return_Period of table huResultsFireStation

Card of the column Return_Period of the table huResultsFireStation

Name	Return_Period
Code	Return_Period
Data Type	varchar(25)
Mandatory	TRUE

Standard check of column Return_Period of table huResultsFireStation

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Return_Period of table huResultsFireStation

CKC_RETURN_PERIOD_HURESULT

Column bCurrent of table huResultsFireStation

Card of the column bCurrent of the table huResultsFireStation

Name	bCurrent
Code	BCURRENT
Data Type	bit
Mandatory	FALSE

Standard check of column bCurrent of table huResultsFireStation

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column bCurrent of table huResultsFireStation

CKC_BCURRENT_HURESULT

Column LossOfUse of table huResultsFireStation

Card of the column LossOfUse of the table huResultsFireStation

Name	LossOfUse
Code	LossOfUse
Data Type	real
Mandatory	FALSE

Standard check of column LossOfUse of table huResultsFireStation

Low value	
High value	
Default value	0
Unit	
Format	

Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column LossOfUse of table huResultsFireStation

CKC_LOSSOFUSE_HURESULT

Column Minor of table huResultsFireStation

Card of the column Minor of the table huResultsFireStation

Name	Minor
Code	MINOR
Data Type	real
Mandatory	FALSE

Standard check of column Minor of table huResultsFireStation

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Minor of table huResultsFireStation

CKC_MINOR_HURESULT

Column Moderate of table huResultsFireStation

Card of the column Moderate of the table huResultsFireStation

Name	Moderate
Code	MODERATE
Data Type	real
Mandatory	FALSE

Standard check of column Moderate of table huResultsFireStation

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Moderate of table huResultsFireStation

CKC_MODERATE_HURESULT

Column Severe of table huResultsFireStation

Card of the column Severe of the table huResultsFireStation

Name	Severe
Code	SEVERE
Data Type	real
Mandatory	FALSE

Standard check of column Severe of table huResultsFireStation

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Severe of table huResultsFireStation

CKC_SEVERE_HURESULT

Column Complete of table huResultsFireStation

Card of the column Complete of the table huResultsFireStation

Name	Complete
Code	COMPLETE
Data Type	real
Mandatory	FALSE

Standard check of column Complete of table huResultsFireStation

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Complete of table huResultsFireStation

CKC_COMPLETE_HURESULT

Column huScenarioName of table huResultsFireStation

Card of the column huScenarioName of the table huResultsFireStation

Name	huScenarioName
Code	huScenarioName

Data Type	varchar(40)
Mandatory	FALSE

Standard check of column huScenarioName of table huResultsFireStation

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column huScenarioName of table huResultsFireStation

CKC_HUSCENARIONAME_HURESULT

Key list of the table huResultsFireStation

Name	Code
idtKey	idtKey

Key idtKey of table huResultsFireStation

Card of the key idtKey of the table huResultsFireStation

Name	idtKey
Code	idtKey
Table	huResultsFireStation

Column list of the key idtKey

Name	Code
FireStationId	FireStationId
Return_Period	Return_Period

Code preview of idtKey

```
alter table huResultsFireStation
   drop constraint PK_HURESULTSFIRESTATION
go
```

Index list of the table huResultsFireStation

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
RLNHURP_RLTSFS2_FK	RLNHURP_RLTSFS2_FK	FALSE	FALSE	FALSE	TRUE	FALSE
RLNHZFS_HURLTSFS2_FK	RLNHZFS_HURLTSFS2_FK	FALSE	FALSE	FALSE	TRUE	FALSE

Index RLNHURP_RLTSFS2_FK of table huResultsFireStation

Card of the index RLNHURP_RLTSFS2_FK of the table huResultsFireStation

Name	RLNHURP_RLTSFS2_FK
Code	RLNHURP_RLTSFS2_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huResultsFireStation

Column list of the index RLNHURP_RLTSFS2_FK

Name	Code	Sort
Return_Period	Return_Period	Ascending

Code preview of RLNHURP_RLTSFS2_FK

The preview is empty because of the setting.
Check the generation option.

Index RLNHZFS_HURLTSFS2_FK of table huResultsFireStation

Card of the index RLNHZFS_HURLTSFS2_FK of the table huResultsFireStation

Name	RLNHZFS_HURLTSFS2_FK
Code	RLNHZFS_HURLTSFS2_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huResultsFireStation

Column list of the index RLNHZFS_HURLTSFS2_FK

Name	Code	Sort
FireStationId	FireStationId	Ascending

Code preview of RLNHZFS_HURLTSFS2_FK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huResultsFireStation

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huResultsFireStation

```
alter table huResultsFireStation
   drop constraint FK_HURESULT_RLNHURP_hufs
go


alter table huResultsFireStation
   drop constraint FK_HURESULT_RLNHZFS_H_HZFIREST
go
```

```
if exists (select 1
          from  sysobjects
         where  id = object_id('huResultsFireStation')
          and   type = 'U')
   drop table huResultsFireStation
go


/*==============================================================*/
/* Table: huResultsFireStation                                  */
/*==============================================================*/
create table huResultsFireStation (
FireStationId       char(8)             not null,
Return_Period       varchar(25)         not null,
BCURRENT            bit                 null default 0,
LossOfUse           real                null default 0,
MINOR               real                null default 0,
MODERATE            real                null default 0,
SEVERE              real                null default 0,
COMPLETE            real                null default 0,
huScenarioName      varchar(40)         null,
constraint PK_HURESULTSFIRESTATION primary key  (FireStationId, Return_Period)
)
go


alter table huResultsFireStation
   add constraint FK_HURESULT_RLNHURP_hufs foreign key (Return_Period)
      references huReturn_Periods (Return_Period)
      on delete cascade on update cascade
go


alter table huResultsFireStation
   add constraint FK_HURESULT_RLNHZFS_H_HZFIREST foreign key (FireStationId)
      references hzFireStation (FireStationId)
      on delete cascade on update cascade
go
```

Table huResultsPoliceStation

Card of the table huResultsPoliceStation

Name	huResultsPoliceStation
Code	huResultsPoliceStation
DBMS	Microsoft SQL Server 2000

Constraint name of table huResultsPoliceStation

CKT_HURESULTSPOLICESTATION

Column list of the table huResultsPoliceStation

Name	Code
Complete	COMPLETE
LossOfUse	LossOfUse
Minor	MINOR
Moderate	MODERATE
PoliceStationId	PoliceStationId

Return_Period	Return_Period
Severe	SEVERE
bCurrent	BCURRENT
huScenarioName	huScenarioName

Column PoliceStationId of table huResultsPoliceStation

Card of the column PoliceStationId of the table huResultsPoliceStation

Name	PoliceStationId
Code	PoliceStationId
Data Type	char(8)
Mandatory	TRUE

Standard check of column PoliceStationId of table huResultsPoliceStation

Low value	
High value	
Default value	
Unit	
Format	AA999999
Upper case	TRUE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column PoliceStationId of table huResultsPoliceStation

CKC_POLICESTATIONID_HURESULT

Column Return_Period of table huResultsPoliceStation

Card of the column Return_Period of the table huResultsPoliceStation

Name	Return_Period
Code	Return_Period
Data Type	varchar(25)
Mandatory	TRUE

Standard check of column Return_Period of table huResultsPoliceStation

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Return_Period of table huResultsPoliceStation

CKC_RETURN_PERIOD_HURESULT

Column bCurrent of table huResultsPoliceStation

Card of the column bCurrent of the table huResultsPoliceStation

Name	bCurrent
Code	BCURRENT
Data Type	bit
Mandatory	FALSE

Standard check of column bCurrent of table huResultsPoliceStation

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column bCurrent of table huResultsPoliceStation

CKC_BCURRENT_HURESULT

Column LossOfUse of table huResultsPoliceStation

Card of the column LossOfUse of the table huResultsPoliceStation

Name	LossOfUse
Code	LossOfUse
Data Type	real
Mandatory	FALSE

Standard check of column LossOfUse of table huResultsPoliceStation

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column LossOfUse of table huResultsPoliceStation

CKC_LOSSOFUSE_HURESULT

Column Minor of table huResultsPoliceStation

Card of the column Minor of the table huResultsPoliceStation

Name	Minor
Code	MINOR
Data Type	real
Mandatory	FALSE

Standard check of column Minor of table huResultsPoliceStation

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Minor of table huResultsPoliceStation

CKC_MINOR_HURESULT

Column Moderate of table huResultsPoliceStation

Card of the column Moderate of the table huResultsPoliceStation

Name	Moderate
Code	MODERATE
Data Type	real
Mandatory	FALSE

Standard check of column Moderate of table huResultsPoliceStation

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Moderate of table huResultsPoliceStation

CKC_MODERATE_HURESULT

Column Severe of table huResultsPoliceStation

Card of the column Severe of the table huResultsPoliceStation

Name	Severe
Code	SEVERE
Data Type	real
Mandatory	FALSE

Standard check of column Severe of table huResultsPoliceStation

Low value	
High value	
Default value	0
Unit	
Format	

Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Severe of table huResultsPoliceStation

CKC_SEVERE_HURESULT

Column Complete of table huResultsPoliceStation

Card of the column Complete of the table huResultsPoliceStation

Name	Complete
Code	COMPLETE
Data Type	real
Mandatory	FALSE

Standard check of column Complete of table huResultsPoliceStation

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Complete of table huResultsPoliceStation

CKC_COMPLETE_HURESULT

Column huScenarioName of table huResultsPoliceStation

Card of the column huScenarioName of the table huResultsPoliceStation

Name	huScenarioName
Code	huScenarioName
Data Type	varchar(40)
Mandatory	FALSE

Standard check of column huScenarioName of table huResultsPoliceStation

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column huScenarioName of table huResultsPoliceStation

CKC_HUSCENARIONAME_HURESULT

Key list of the table huResultsPoliceStation

Name	Code
idtKey	idtKey

Key idtKey of table huResultsPoliceStation

Card of the key idtKey of the table huResultsPoliceStation

Name	idtKey
Code	idtKey
Table	huResultsPoliceStation

Column list of the key idtKey

Name	Code
PoliceStationId	PoliceStationId
Return_Period	Return_Period

Code preview of idtKey

```
alter table huResultsPoliceStation
  drop constraint PK_HURESULTSPOLICESTATION
go
```

Index list of the table huResultsPoliceStation

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
RLNHURP_RLTSPS2_FK	RLNHURP_RLTSPS2_FK	FALSE	FALSE	FALSE	TRUE	FALSE
RLNHZPC_HURLTSPC2_FK	RLNHZPC_HURLTSPC2_FK	FALSE	FALSE	FALSE	TRUE	FALSE

Index RLNHURP_RLTSPS2_FK of table huResultsPoliceStation

Card of the index RLNHURP_RLTSPS2_FK of the table huResultsPoliceStation

Name	RLNHURP_RLTSPS2_FK
Code	RLNHURP_RLTSPS2_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huResultsPoliceStation

Column list of the index RLNHURP_RLTSPS2_FK

Name	Code	Sort
Return_Period	Return_Period	Ascending

Code preview of RLNHURP_RLTSPS2_FK

The preview is empty because of the setting.
Check the generation option.

Index RLNHZPC_HURLTSPC2_FK of table huResultsPoliceStation

Card of the index RLNHZPC_HURLTSPC2_FK of the table huResultsPoliceStation

Name	RLNHZPC_HURLTSPC2_FK
Code	RLNHZPC_HURLTSPC2_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huResultsPoliceStation

Column list of the index RLNHZPC_HURLTSPC2_FK

Name	Code	Sort
PoliceStationId	PoliceStationId	Ascending

Code preview of RLNHZPC_HURLTSPC2_FK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huResultsPoliceStation

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huResultsPoliceStation

```
alter table huResultsPoliceStation
   drop constraint FK_HURESULT_RLNHUR_hups
go


alter table huResultsPoliceStation
   drop constraint FK_HURESULT_RLNHZPC_H_HZPOLICE
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huResultsPoliceStation')
            and   type = 'U')
   drop table huResultsPoliceStation
go


/*==============================================================*/
/* Table: huResultsPoliceStation                                */
/*==============================================================*/
create table huResultsPoliceStation (
PoliceStationId      char(8)              not null,
Return_Period        varchar(25)          not null,
BCURRENT             bit                  null,
LossOfUse            real                 null default 0,
MINOR                real                 null default 0,
MODERATE             real                 null default 0,
SEVERE               real                 null default 0,
COMPLETE             real                 null default 0,
huScenarioName       varchar(40)          null,
```

```
constraint PK_HURESULTSPOLICESTATION primary key  (PoliceStationId, Return_Period)
)
go


alter table huResultsPoliceStation
  add constraint FK_HURESULT_RLNHUR_hups foreign key (Return_Period)
    references huReturn_Periods (Return_Period)
    on delete cascade on update cascade
go


alter table huResultsPoliceStation
  add constraint FK_HURESULT_RLNHZPC_H_HZPOLICE foreign key (PoliceStationId)
    references hzPoliceStation (PoliceStationId)
    on delete cascade on update cascade
go
```

Table huResultsSchool

Card of the table huResultsSchool

Name	huResultsSchool
Code	huResultsSchool
DBMS	Microsoft SQL Server 2000

Constraint name of table huResultsSchool

CKT_HURESULTSSCHOOL

Column list of the table huResultsSchool

Name	Code
Complete	COMPLETE
LossOfUse	LossOfUse
Minor	MINOR
Moderate	MODERATE
Return_Period	Return_Period
SchoolId	SchoolId
Severe	SEVERE
bCurrent	BCURRENT
huScenarioName	huScenarioName

Column SchoolId of table huResultsSchool

Card of the column SchoolId of the table huResultsSchool

Name	SchoolId
Code	SchoolId
Data Type	char(8)
Mandatory	TRUE

Standard check of column SchoolId of table huResultsSchool

Low value	
High value	
Default value	

Unit	
Format	AA999999
Upper case	TRUE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SchoolId of table huResultsSchool

CKC_SCHOOLID_HURESULT

Column Return_Period of table huResultsSchool

Card of the column Return_Period of the table huResultsSchool

Name	Return_Period
Code	Return_Period
Data Type	varchar(25)
Mandatory	TRUE

Standard check of column Return_Period of table huResultsSchool

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Return_Period of table huResultsSchool

CKC_RETURN_PERIOD_HURESULT

Column bCurrent of table huResultsSchool

Card of the column bCurrent of the table huResultsSchool

Name	bCurrent
Code	BCURRENT
Data Type	bit
Mandatory	FALSE

Standard check of column bCurrent of table huResultsSchool

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column bCurrent of table huResultsSchool

CKC_BCURRENT_HURESULT

Column LossOfUse of table huResultsSchool

Card of the column LossOfUse of the table huResultsSchool

Name	LossOfUse
Code	LossOfUse
Data Type	real
Mandatory	FALSE

Standard check of column LossOfUse of table huResultsSchool

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column LossOfUse of table huResultsSchool

CKC_LOSSOFUSE_HURESULT

Column Minor of table huResultsSchool

Card of the column Minor of the table huResultsSchool

Name	Minor
Code	MINOR
Data Type	real
Mandatory	FALSE

Standard check of column Minor of table huResultsSchool

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Minor of table huResultsSchool

CKC_MINOR_HURESULT

Column Moderate of table huResultsSchool

Card of the column Moderate of the table huResultsSchool

Name	Moderate
Code	MODERATE
Data Type	real
Mandatory	FALSE

Standard check of column Moderate of table huResultsSchool

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Moderate of table huResultsSchool

CKC_MODERATE_HURESULT

Column Severe of table huResultsSchool

Card of the column Severe of the table huResultsSchool

Name	Severe
Code	SEVERE
Data Type	real
Mandatory	FALSE

Standard check of column Severe of table huResultsSchool

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Severe of table huResultsSchool

CKC_SEVERE_HURESULT

Column Complete of table huResultsSchool

Card of the column Complete of the table huResultsSchool

Name	Complete
Code	COMPLETE
Data Type	real
Mandatory	FALSE

Standard check of column Complete of table huResultsSchool

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Complete of table huResultsSchool

CKC_COMPLETE_HURESULT

Column huScenarioName of table huResultsSchool

Card of the column huScenarioName of the table huResultsSchool

Name	huScenarioName
Code	huScenarioName
Data Type	varchar(40)
Mandatory	FALSE

Standard check of column huScenarioName of table huResultsSchool

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column huScenarioName of table huResultsSchool

CKC_HUSCENARIONAME_HURESULT

Key list of the table huResultsSchool

Name	Code
idtKey	idtKey

Key idtKey of table huResultsSchool

Card of the key idtKey of the table huResultsSchool

Name	idtKey
Code	idtKey
Table	huResultsSchool

Column list of the key idtKey

Name	Code
SchoolId	SchoolId
Return_Period	Return_Period

Code preview of idtKey

```
alter table huResultsSchool
  drop constraint PK_HURESULTSSCHOOL
go
```

Index list of the table huResultsSchool

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
RLNHURP_RLTSSCH2_FK	RLNHURP_RLTSSCH2_FK	FALSE	FALSE	FALSE	TRUE	FALSE
RLNHZSC_HURLTSSC2_FK	RLNHZSC_HURLTSSC2_FK	FALSE	FALSE	FALSE	TRUE	FALSE

Index RLNHURP_RLTSSCH2_FK of table huResultsSchool

Card of the index RLNHURP_RLTSSCH2_FK of the table huResultsSchool

Name	RLNHURP_RLTSSCH2_FK
Code	RLNHURP_RLTSSCH2_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huResultsSchool

Column list of the index RLNHURP_RLTSSCH2_FK

Name	Code	Sort
Return_Period	Return_Period	Ascending

Code preview of RLNHURP_RLTSSCH2_FK

The preview is empty because of the setting.
Check the generation option.

Index RLNHZSC_HURLTSSC2_FK of table huResultsSchool

Card of the index RLNHZSC_HURLTSSC2_FK of the table huResultsSchool

Name	RLNHZSC_HURLTSSC2_FK
Code	RLNHZSC_HURLTSSC2_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huResultsSchool

Column list of the index RLNHZSC_HURLTSSC2_FK

Name	Code	Sort
SchoolId	SchoolId	Ascending

Code preview of RLNHZSC_HURLTSSC2_FK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huResultsSchool

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huResultsSchool

```
alter table huResultsSchool
   drop constraint FK_HURESULT_RLNHURP_husch
go


alter table huResultsSchool
   drop constraint FK_HURESULT_RLNHZSC_H_HZSCHOOL
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huResultsSchool')
            and   type = 'U')
   drop table huResultsSchool
go


/*==============================================================*/
/* Table: huResultsSchool                                       */
/*==============================================================*/
create table huResultsSchool (
SchoolId            char(8)             not null,
Return_Period       varchar(25)         not null,
BCURRENT            bit                 null,
LossOfUse           real                null default 0,
MINOR               real                null default 0,
MODERATE            real                null default 0,
SEVERE              real                null default 0,
COMPLETE            real                null default 0,
huScenarioName      varchar(40)         null,
constraint PK_HURESULTSSCHOOL primary key  (SchoolId, Return_Period)
)
go


alter table huResultsSchool
   add constraint FK_HURESULT_RLNHURP_husch foreign key (Return_Period)
      references huReturn_Periods (Return_Period)
      on delete cascade on update cascade
go


alter table huResultsSchool
   add constraint FK_HURESULT_RLNHZSC_H_HZSCHOOL foreign key (SchoolId)
```

```
    references hzSchool (SchoolId)
    on delete cascade on update cascade
go
```

Table huResultsUserDefined

Card of the table huResultsUserDefined

Name	huResultsUserDefined
Code	huResultsUserDefined
DBMS	Microsoft SQL Server 2000

Constraint name of table huResultsUserDefined

CKT_HURESULTSUSERDEFINED

Column list of the table huResultsUserDefined

Name	Code
Complete	COMPLETE
Minor	MINOR
Moderate	MODERATE
Return_Period	Return_Period
Severe	SEVERE
UserDefinedFltyId	UserDefinedFltyId
bCurrent	BCURRENT
huScenarioName	huScenarioName

Column UserDefinedFltyId of table huResultsUserDefined

Card of the column UserDefinedFltyId of the table huResultsUserDefined

Name	UserDefinedFltyId
Code	UserDefinedFltyId
Data Type	char(8)
Mandatory	TRUE

Standard check of column UserDefinedFltyId of table huResultsUserDefined

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column UserDefinedFltyId of table huResultsUserDefined

CKC_USERDEFINEDFLTYID_HURESULT

Column Return_Period of table huResultsUserDefined

Card of the column Return_Period of the table huResultsUserDefined

Name	Return_Period
Code	Return_Period
Data Type	varchar(25)
Mandatory	TRUE

Standard check of column Return_Period of table huResultsUserDefined

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Return_Period of table huResultsUserDefined

CKC_RETURN_PERIOD_HURESULT

Column bCurrent of table huResultsUserDefined

Card of the column bCurrent of the table huResultsUserDefined

Name	bCurrent
Code	BCURRENT
Data Type	bit
Mandatory	FALSE

Standard check of column bCurrent of table huResultsUserDefined

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column bCurrent of table huResultsUserDefined

CKC_BCURRENT_HURESULT

Column Minor of table huResultsUserDefined

Card of the column Minor of the table huResultsUserDefined

Name	Minor
Code	MINOR
Data Type	real
Mandatory	FALSE

Standard check of column Minor of table huResultsUserDefined

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Minor of table huResultsUserDefined

CKC_MINOR_HURESULT

Column Moderate of table huResultsUserDefined

Card of the column Moderate of the table huResultsUserDefined

Name	Moderate
Code	MODERATE
Data Type	real
Mandatory	FALSE

Standard check of column Moderate of table huResultsUserDefined

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Moderate of table huResultsUserDefined

CKC_MODERATE_HURESULT

Column Severe of table huResultsUserDefined

Card of the column Severe of the table huResultsUserDefined

Name	Severe
Code	SEVERE
Data Type	real
Mandatory	FALSE

Standard check of column Severe of table huResultsUserDefined

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE

Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Severe of table huResultsUserDefined

CKC_SEVERE_HURESULT

Column Complete of table huResultsUserDefined

Card of the column Complete of the table huResultsUserDefined

Name	Complete
Code	COMPLETE
Data Type	real
Mandatory	FALSE

Standard check of column Complete of table huResultsUserDefined

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Complete of table huResultsUserDefined

CKC_COMPLETE_HURESULT

Column huScenarioName of table huResultsUserDefined

Card of the column huScenarioName of the table huResultsUserDefined

Name	huScenarioName
Code	huScenarioName
Data Type	varchar(40)
Mandatory	FALSE

Standard check of column huScenarioName of table huResultsUserDefined

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column huScenarioName of table huResultsUserDefined

CKC_HUSCENARIONAME_HURESULT

Key list of the table huResultsUserDefined

Name	Code
idtKey	idtKey

Key idtKey of table huResultsUserDefined

Card of the key idtKey of the table huResultsUserDefined

Name	idtKey
Code	idtKey
Table	huResultsUserDefined

Column list of the key idtKey

Name	Code
UserDefinedFltyId	UserDefinedFltyId
Return_Period	Return_Period

Code preview of idtKey

```
alter table huResultsUserDefined
   drop constraint PK_HURESULTSUSERDEFINED
go
```

Index list of the table huResultsUserDefined

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
RLNHZUD_HURLTSUD2_FK	RLNHZUD_HURLTSUD2_FK	FALSE	FALSE	FALSE	TRUE	FALSE
RLNHURP_RLTSUD2_FK	RLNHURP_RLTSUD2_FK	FALSE	FALSE	FALSE	TRUE	FALSE

Index RLNHZUD_HURLTSUD2_FK of table huResultsUserDefined

Card of the index RLNHZUD_HURLTSUD2_FK of the table huResultsUserDefined

Name	RLNHZUD_HURLTSUD2_FK
Code	RLNHZUD_HURLTSUD2_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huResultsUserDefined

Column list of the index RLNHZUD_HURLTSUD2_FK

Name	Code	Sort
UserDefinedFltyId	UserDefinedFltyId	Ascending

Code preview of RLNHZUD_HURLTSUD2_FK

The preview is empty because of the setting.
Check the generation option.

Index RLNHURP_RLTSUD2_FK of table huResultsUserDefined

Card of the index RLNHURP_RLTSUD2_FK of the table huResultsUserDefined

Name	RLNHURP_RLTSUD2_FK
Code	RLNHURP_RLTSUD2_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huResultsUserDefined

Column list of the index RLNHURP_RLTSUD2_FK

Name	Code	Sort
Return_Period	Return_Period	Ascending

Code preview of RLNHURP_RLTSUD2_FK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huResultsUserDefined

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huResultsUserDefined

```
alter table huResultsUserDefined
   drop constraint FK_HURESULT_RLNHZUD_H_HZUSERDE
go


alter table huResultsUserDefined
   drop constraint FK_HURESULT_RLNHURP_huud
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huResultsUserDefined')
            and   type = 'U')
   drop table huResultsUserDefined
go


/*==============================================================*/
/* Table: huResultsUserDefined                                  */
/*==============================================================*/
create table huResultsUserDefined (
UserDefinedFltyId    char(8)              not null,
Return_Period        varchar(25)          not null,
BCURRENT             bit                  null,
MINOR                real                 null default 0,
MODERATE             real                 null default 0,
SEVERE               real                 null default 0,
COMPLETE             real                 null default 0,
huScenarioName       varchar(40)          null,
constraint PK_HURESULTSUSERDEFINED primary key  (UserDefinedFltyId, Return_Period)
)
go
```

```
alter table huResultsUserDefined
  add constraint FK_HURESULT_RLNHZUD_H_HZUSERDE foreign key (UserDefinedFltyId)
    references hzUserDefinedFlty (UserDefinedFltyId)
    on delete cascade on update cascade
go


alter table huResultsUserDefined
  add constraint FK_HURESULT_RLNHURP_huud foreign key (Return_Period)
    references huReturn_Periods (Return_Period)
    on delete cascade on update cascade
go
```

Table huRPWindSpeeds

Card of the table huRPWindSpeeds

Name	huRPWindSpeeds
Code	huRPWindSpeeds
DBMS	Microsoft SQL Server 2000

Constraint name of table huRPWindSpeeds

CKT_HURPWINDSPEEDS

Column list of the table huRPWindSpeeds

Name	Code
Tract	Tract
wRtnP1	wRtnP1
wRtnP2	wRtnP2
wRtnP3	wRtnP3
wRtnP4	wRtnP4
wRtnP5	wRtnP5
wRtnP6	wRtnP6
wRtnP7	wRtnP7

Column Tract of table huRPWindSpeeds

Card of the column Tract of the table huRPWindSpeeds

Name	Tract
Code	Tract
Data Type	char(11)
Mandatory	TRUE

Standard check of column Tract of table huRPWindSpeeds

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE

Cannot modify	FALSE
List of values	

Constraint name of column Tract of table huRPWindSpeeds

CKC_TRACT_HURPWIND

Column wRtnP1 of table huRPWindSpeeds

Card of the column wRtnP1 of the table huRPWindSpeeds

Name	wRtnP1
Code	wRtnP1
Data Type	smallint
Mandatory	FALSE

Standard check of column wRtnP1 of table huRPWindSpeeds

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column wRtnP1 of table huRPWindSpeeds

CKC_WRTNP1_HURPWIND

Column wRtnP2 of table huRPWindSpeeds

Card of the column wRtnP2 of the table huRPWindSpeeds

Name	wRtnP2
Code	wRtnP2
Data Type	smallint
Mandatory	FALSE

Standard check of column wRtnP2 of table huRPWindSpeeds

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column wRtnP2 of table huRPWindSpeeds

CKC_WRTNP2_HURPWIND

Column wRtnP3 of table huRPWindSpeeds

Card of the column wRtnP3 of the table huRPWindSpeeds

Name	wRtnP3
Code	wRtnP3
Data Type	smallint
Mandatory	FALSE

Standard check of column wRtnP3 of table huRPWindSpeeds

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column wRtnP3 of table huRPWindSpeeds

CKC_WRTNP3_HURPWIND

Column wRtnP4 of table huRPWindSpeeds

Card of the column wRtnP4 of the table huRPWindSpeeds

Name	wRtnP4
Code	wRtnP4
Data Type	smallint
Mandatory	FALSE

Standard check of column wRtnP4 of table huRPWindSpeeds

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column wRtnP4 of table huRPWindSpeeds

CKC_WRTNP4_HURPWIND

Column wRtnP5 of table huRPWindSpeeds

Card of the column wRtnP5 of the table huRPWindSpeeds

Name	wRtnP5
Code	wRtnP5
Data Type	smallint
Mandatory	FALSE

Standard check of column wRtnP5 of table huRPWindSpeeds

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column wRtnP5 of table huRPWindSpeeds

CKC_WRTNP5_HURPWIND

Column wRtnP6 of table huRPWindSpeeds

Card of the column wRtnP6 of the table huRPWindSpeeds

Name	wRtnP6
Code	wRtnP6
Data Type	smallint
Mandatory	FALSE

Standard check of column wRtnP6 of table huRPWindSpeeds

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column wRtnP6 of table huRPWindSpeeds

CKC_WRTNP6_HURPWIND

Column wRtnP7 of table huRPWindSpeeds

Card of the column wRtnP7 of the table huRPWindSpeeds

Name	wRtnP7
Code	wRtnP7
Data Type	smallint
Mandatory	FALSE

Standard check of column wRtnP7 of table huRPWindSpeeds

Low value	
High value	
Default value	
Unit	
Format	

Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column wRtnP7 of table huRPWindSpeeds

CKC_WRTNP7_HURPWIND

Key list of the table huRPWindSpeeds

Name	Code
idtKey	idtKey

Key idtKey of table huRPWindSpeeds

Card of the key idtKey of the table huRPWindSpeeds

Name	idtKey
Code	idtKey
Table	huRPWindSpeeds

Column list of the key idtKey

Name	Code
Tract	Tract

Code preview of idtKey

```
alter table huRPWindSpeeds
   drop constraint PK_HURPWINDSPEEDS
go
```

Index list of the table huRPWindSpeeds

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
idtTract_RPwindSpeeds	idtTract_RPwindSpeeds	FALSE	FALSE	FALSE	TRUE	FALSE

Index idtTract_RPwindSpeeds of table huRPWindSpeeds

Card of the index idtTract_RPwindSpeeds of the table huRPWindSpeeds

Name	idtTract_RPwindSpeeds
Code	idtTract_RPwindSpeeds
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huRPWindSpeeds

Column list of the index idtTract_RPwindSpeeds

Name	Code	Sort
Tract	Tract	Ascending

Code preview of idtTract_RPwindSpeeds

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huRPWindSpeeds

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huRPWindSpeeds

```
alter table huRPWindSpeeds
   drop constraint FK_HURPWIND_RLNTRACT__HZTRACT
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huRPWindSpeeds')
            and   type = 'U')
   drop table huRPWindSpeeds
go


/*==============================================================*/
/* Table: huRPWindSpeeds                                        */
/*==============================================================*/
create table huRPWindSpeeds (
Tract              char(11)           not null,
wRtnP1             smallint           null,
wRtnP2             smallint           null,
wRtnP3             smallint           null,
wRtnP4             smallint           null,
wRtnP5             smallint           null,
wRtnP6             smallint           null,
wRtnP7             smallint           null,
constraint PK_HURPWINDSPEEDS primary key  (Tract)
)
go


alter table huRPWindSpeeds
   add constraint FK_HURPWIND_RLNTRACT__HZTRACT foreign key (Tract)
      references hzTract (Tract)
      on delete cascade on update cascade
go
```

Table huCareFlty

Card of the table huCareFlty

Name	huCareFlty
Code	huCareFlty
DBMS	Microsoft SQL Server 2000

Constraint name of table huCareFlty

CKT_HUCAREFLTY

Column list of the table huCareFlty

Name	Code
CareFltyId	CareFltyId
huBldgSchemeName	huBldgSchemeName
sbtName	sbtName

Column CareFltyId of table huCareFlty

Card of the column CareFltyId of the table huCareFlty

Name	CareFltyId
Code	CareFltyId
Data Type	char(8)
Mandatory	TRUE

Standard check of column CareFltyId of table huCareFlty

Low value	
High value	
Default value	
Unit	
Format	AA999999
Upper case	TRUE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CareFltyId of table huCareFlty

CKC_CAREFLTYID_HUCAREFL

Column huBldgSchemeName of table huCareFlty

Card of the column huBldgSchemeName of the table huCareFlty

Name	huBldgSchemeName
Code	huBldgSchemeName
Data Type	varchar(20)
Mandatory	FALSE

Standard check of column huBldgSchemeName of table huCareFlty

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column huBldgSchemeName of table huCareFlty

CKC_HUBLDGSCHEMENAME_HUCAREFL

Column sbtName of table huCareFlty

Card of the column sbtName of the table huCareFlty

Name	sbtName
Code	sbtName
Data Type	varchar(10)
Mandatory	FALSE

Standard check of column sbtName of table huCareFlty

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column sbtName of table huCareFlty

CKC_SBTNAME_HUCAREFL

Key list of the table huCareFlty

Name	Code
idtKey	idtKey

Key idtKey of table huCareFlty

Card of the key idtKey of the table huCareFlty

Name	idtKey
Code	idtKey
Table	huCareFlty

Column list of the key idtKey

Name	Code
CareFltyId	CareFltyId

Code preview of idtKey

```
alter table huCareFlty
  drop constraint PK_HUCAREFLTY
go
```

Index list of the table huCareFlty

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
RLNHUSBT_CF_FK	RLNHUSBT_CF_FK	FALSE	FALSE	FALSE	TRUE	FALSE
RLNHUBML_HUCARE_FK	RLNHUBML_HUCARE_FK	FALSE	FALSE	FALSE	TRUE	FALSE
rlncare_hu	rlncare_hu	FALSE	FALSE	FALSE	TRUE	FALSE

Index RLNHUSBT_CF_FK of table huCareFlty

Card of the index RLNHUSBT_CF_FK of the table huCareFlty

Name	RLNHUSBT_CF_FK
Code	RLNHUSBT_CF_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huCareFlty

Column list of the index RLNHUSBT_CF_FK

Name	Code	Sort
sbtName	sbtName	Ascending

Code preview of RLNHUSBT_CF_FK

The preview is empty because of the setting.
Check the generation option.

Index RLNHUBML_HUCARE_FK of table huCareFlty

Card of the index RLNHUBML_HUCARE_FK of the table huCareFlty

Name	RLNHUBML_HUCARE_FK
Code	RLNHUBML_HUCARE_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huCareFlty

Column list of the index RLNHUBML_HUCARE_FK

Name	Code	Sort
huBldgSchemeName	huBldgSchemeName	Ascending

Code preview of RLNHUBML_HUCARE_FK

The preview is empty because of the setting.
Check the generation option.

Index rlncare_hu of table huCareFlty

Card of the index rlncare_hu of the table huCareFlty

Name	rlncare_hu
Code	rlncare_hu
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huCareFlty

Column list of the index rIncare_hu

Name	Code	Sort
CareFltyId	CareFltyId	Ascending

Code preview of rIncare_hu

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huCareFlty

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huCareFlty

```
alter table huCareFlty
   drop constraint FK_HUCAREFL_RLNHUSBT__CLBLDGTY
go


alter table huCareFlty
   drop constraint FK_HUCAREFL_RLNHUBML__HUBLDGMA
go


alter table huCareFlty
   drop constraint FK_HUCAREFL_RLNCARE_H_HZCAREFL
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huCareFlty')
            and   type = 'U')
   drop table huCareFlty
go


/*==============================================================*/
/* Table: huCareFlty                                            */
/*==============================================================*/
create table huCareFlty (
CareFltyId          char(8)             not null,
huBldgSchemeName    varchar(20)         null,
sbtName             varchar(10)         null,
constraint PK_HUCAREFLTY primary key  (CareFltyId)
)
go


alter table huCareFlty
   add constraint FK_HUCAREFL_RLNHUSBT__CLBLDGTY foreign key (sbtName)
      references clBldgTypeHu (sbtName)
      on delete cascade on update cascade
go


alter table huCareFlty
   add constraint FK_HUCAREFL_RLNHUBML__HUBLDGMA foreign key (huBldgSchemeName)
      references huBldgMappingList (huBldgSchemeName)
```

```
    on delete cascade on update cascade
go


alter table huCareFlty
  add constraint FK_HUCAREFL_RLNCARE_H_HZCAREFL foreign key (CareFltyId)
    references hzCareFlty (CareFltyId)
    on delete cascade on update cascade
go
```

Table huInCast

Card of the table huInCast

Name	huInCast
Code	huInCast
DBMS	Microsoft SQL Server 2000

Constraint name of table huInCast

CKT_HUINCAST

Column list of the table huInCast

Name	Code
Cladding	Cladding
DeckAttach	DeckAttach
DoorProtection	DoorProtection
FrameSpacing	FrameSpacing
GableBracing	GableBracing
GarageDoors	GarageDoors
Glass	Glass
GlassConstr	GlassConstr
MHCode	MHCode
MHTieDowns	MHTieDowns
MHWindZone	MHWindZone
NailSize	NailSize
NailSpacing	NailSpacing
Openings	Openings
OtherDoorArea	OtherDoorArea
Protection	Protection
RollUpDoors	RollUpDoors
RoofCovering	RoofCovering
RoofPerimeter	RoofPerimeter
RoofShape	RoofShape
RoofSheathing	RoofSheathing
RoofSlope	RoofSlope
ShieldingHeight	ShieldingHeight
ShutterCde	ShutterCde
ShutterType	ShutterType
Topography	Topography
WallAnchorage	WallAnchorage
WallExposure	WallExposure
WindDebrisSource	WindDebrisSource
WindDesignCode	WindDesignCode
WindDesignYear	WindDesignYear
WindExposure	WindExposure
WindShielding	WindShielding

WindSpeed	WindSpeed
WindSpeedType	WindSpeedType
hzIncastID	hzIncastID

Column hzIncastID of table huInCast

Card of the column hzIncastID of the table huInCast

Name	hzIncastID
Code	hzIncastID
Data Type	int
Mandatory	FALSE

Standard check of column hzIncastID of table huInCast

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column hzIncastID of table huInCast

CKC_HZINCASTID_HUINCAST

Column WindExposure of table huInCast

Card of the column WindExposure of the table huInCast

Name	WindExposure
Code	WindExposure
Data Type	varchar(25)
Mandatory	FALSE

Standard check of column WindExposure of table huInCast

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WindExposure of table huInCast

CKC_WINDEXPOSURE_HUINCAST

Column Topography of table huInCast

Card of the column Topography of the table huInCast

Name	Topography
Code	Topography
Data Type	varchar(15)
Mandatory	FALSE

Standard check of column Topography of table huInCast

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Topography of table huInCast

CKC_TOPOGRAPHY_HUINCAST

Column WindShielding of table huInCast

Card of the column WindShielding of the table huInCast

Name	WindShielding
Code	WindShielding
Data Type	varchar(15)
Mandatory	FALSE

Standard check of column WindShielding of table huInCast

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WindShielding of table huInCast

CKC_WINDSHIELDING_HUINCAST

Column ShieldingHeight of table huInCast

Card of the column ShieldingHeight of the table huInCast

Name	ShieldingHeight
Code	ShieldingHeight
Data Type	varchar(45)
Mandatory	FALSE

Standard check of column ShieldingHeight of table huInCast

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column ShieldingHeight of table huInCast

CKC_SHIELDINGHEIGHT_HUINCAST

Column WindDebrisSource of table huInCast

Card of the column WindDebrisSource of the table huInCast

Name	WindDebrisSource
Code	WindDebrisSource
Data Type	varchar(30)
Mandatory	FALSE

Standard check of column WindDebrisSource of table huInCast

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WindDebrisSource of table huInCast

CKC_WINDDEBRISSOURCE_HUINCAST

Column WindSpeedType of table huInCast

Card of the column WindSpeedType of the table huInCast

Name	WindSpeedType
Code	WindSpeedType
Data Type	varchar(15)
Mandatory	FALSE

Standard check of column WindSpeedType of table huInCast

Low value	
High value	
Default value	
Unit	
Format	

Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WindSpeedType of table huInCast

CKC_WINDSPEEDTYPE_HUINCAST

Column RoofSlope of table huInCast

Card of the column RoofSlope of the table huInCast

Name	RoofSlope
Code	RoofSlope
Data Type	varchar(25)
Mandatory	FALSE

Standard check of column RoofSlope of table huInCast

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column RoofSlope of table huInCast

CKC_ROOFSLOPE_HUINCAST

Column RoofCovering of table huInCast

Card of the column RoofCovering of the table huInCast

Name	RoofCovering
Code	RoofCovering
Data Type	varchar(45)
Mandatory	FALSE

Standard check of column RoofCovering of table huInCast

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column RoofCovering of table huInCast

CKC_ROOFCOVERING_HUINCAST

Column RoofShape of table huInCast

Card of the column RoofShape of the table huInCast

Name	RoofShape
Code	RoofShape
Data Type	varchar(15)
Mandatory	FALSE

Standard check of column RoofShape of table huInCast

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column RoofShape of table huInCast

CKC_ROOFSHAPE_HUINCAST

Column WallAnchorage of table huInCast

Card of the column WallAnchorage of the table huInCast

Name	WallAnchorage
Code	WallAnchorage
Data Type	varchar(15)
Mandatory	FALSE

Standard check of column WallAnchorage of table huInCast

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WallAnchorage of table huInCast

CKC_WALLANCHORAGE_HUINCAST

Column Cladding of table huInCast

Card of the column Cladding of the table huInCast

Name	Cladding
Code	Cladding

Data Type	varchar(45)
Mandatory	FALSE

Standard check of column Cladding of table huInCast

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Cladding of table huInCast

CKC_CLADDING_HUINCAST

Column FrameSpacing of table huInCast

Card of the column FrameSpacing of the table huInCast

Name	FrameSpacing
Code	FrameSpacing
Data Type	varchar(15)
Mandatory	FALSE

Standard check of column FrameSpacing of table huInCast

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column FrameSpacing of table huInCast

CKC_FRAMESPACING_HUINCAST

Column Openings of table huInCast

Card of the column Openings of the table huInCast

Name	Openings
Code	Openings
Data Type	varchar(15)
Mandatory	FALSE

Standard check of column Openings of table huInCast

Low value	
High value	
Default value	

Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Openings of table hulnCast

CKC_OPENINGS_HUINCAST

Column Glass of table hulnCast

Card of the column Glass of the table hulnCast

Name	Glass
Code	Glass
Data Type	varchar(30)
Mandatory	FALSE

Standard check of column Glass of table hulnCast

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Glass of table hulnCast

CKC_GLASS_HUINCAST

Column GlassConstr of table hulnCast

Card of the column GlassConstr of the table hulnCast

Name	GlassConstr
Code	GlassConstr
Data Type	varchar(15)
Mandatory	FALSE

Standard check of column GlassConstr of table hulnCast

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column GlassConstr of table huInCast

CKC_GLASSCONSTR_HUINCAST

Column NailSize of table huInCast

Card of the column NailSize of the table huInCast

Name	NailSize
Code	NailSize
Data Type	varchar(15)
Mandatory	FALSE

Standard check of column NailSize of table huInCast

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column NailSize of table huInCast

CKC_NAILSIZE_HUINCAST

Column NailSpacing of table huInCast

Card of the column NailSpacing of the table huInCast

Name	NailSpacing
Code	NailSpacing
Data Type	varchar(15)
Mandatory	FALSE

Standard check of column NailSpacing of table huInCast

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column NailSpacing of table huInCast

CKC_NAILSPACING_HUINCAST

Column GableBracing of table huInCast

Card of the column GableBracing of the table huInCast

Name	GableBracing
Code	GableBracing
Data Type	varchar(15)
Mandatory	FALSE

Standard check of column GableBracing of table huInCast

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column GableBracing of table huInCast

CKC_GABLEBRACING_HUINCAST

Column DeckAttach of table huInCast

Card of the column DeckAttach of the table huInCast

Name	DeckAttach
Code	DeckAttach
Data Type	varchar(12)
Mandatory	FALSE

Standard check of column DeckAttach of table huInCast

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column DeckAttach of table huInCast

CKC_DECKATTACH_HUINCAST

Column RoofSheathing of table huInCast

Card of the column RoofSheathing of the table huInCast

Name	RoofSheathing
Code	RoofSheathing
Data Type	varchar(30)
Mandatory	FALSE

Standard check of column RoofSheathing of table huInCast

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column RoofSheathing of table huInCast

CKC_ROOFSHEATHING_HUINCAST

Column WindDesignCode of table huInCast

Card of the column WindDesignCode of the table huInCast

Name	WindDesignCode
Code	WindDesignCode
Data Type	varchar(15)
Mandatory	FALSE

Standard check of column WindDesignCode of table huInCast

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WindDesignCode of table huInCast

CKC_WINDDESIGNCODE_HUINCAST

Column ShutterType of table huInCast

Card of the column ShutterType of the table huInCast

Name	ShutterType
Code	ShutterType
Data Type	varchar(15)
Mandatory	FALSE

Standard check of column ShutterType of table huInCast

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE

Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column ShutterType of table huInCast

CKC_SHUTTERTYPE_HUINCAST

Column ShutterCde of table huInCast

Card of the column ShutterCde of the table huInCast

Name	ShutterCde
Code	ShutterCde
Data Type	varchar(30)
Mandatory	FALSE

Standard check of column ShutterCde of table huInCast

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column ShutterCde of table huInCast

CKC_SHUTTERCDE_HUINCAST

Column GarageDoors of table huInCast

Card of the column GarageDoors of the table huInCast

Name	GarageDoors
Code	GarageDoors
Data Type	varchar(15)
Mandatory	FALSE

Standard check of column GarageDoors of table huInCast

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column GarageDoors of table huInCast

CKC_GARAGEDOORS_HUINCAST

Column RollUpDoors of table huInCast

Card of the column RollUpDoors of the table huInCast

Name	RollUpDoors
Code	RollUpDoors
Data Type	varchar(15)
Mandatory	FALSE

Standard check of column RollUpDoors of table huInCast

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column RollUpDoors of table huInCast

CKC_ROLLUPDOORS_HUINCAST

Column MHWindZone of table huInCast

Card of the column MHWindZone of the table huInCast

Name	MHWindZone
Code	MHWindZone
Data Type	varchar(15)
Mandatory	FALSE

Standard check of column MHWindZone of table huInCast

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MHWindZone of table huInCast

CKC_MHWINDZONE_HUINCAST

Column MHCode of table huInCast

Card of the column MHCode of the table huInCast

Name	MHCode
Code	MHCode
Data Type	varchar(30)
Mandatory	FALSE

Standard check of column MHCode of table huInCast

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MHCode of table huInCast

CKC_MHCODE_HUINCAST

Column RoofPerimeter of table huInCast

Card of the column RoofPerimeter of the table huInCast

Name	RoofPerimeter
Code	RoofPerimeter
Data Type	varchar(30)
Mandatory	FALSE

Standard check of column RoofPerimeter of table huInCast

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column RoofPerimeter of table huInCast

CKC_ROOFPERIMETER_HUINCAST

Column Protection of table huInCast

Card of the column Protection of the table huInCast

Name	Protection
Code	Protection
Data Type	varchar(25)
Mandatory	FALSE

Standard check of column Protection of table huInCast

Low value	
High value	
Default value	
Unit	

Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Protection of table hulnCast

CKC_PROTECTION_HUINCAST

Column DoorProtection of table hulnCast

Card of the column DoorProtection of the table hulnCast

Name	DoorProtection
Code	DoorProtection
Data Type	varchar(15)
Mandatory	FALSE

Standard check of column DoorProtection of table hulnCast

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column DoorProtection of table hulnCast

CKC_DOORPROTECTION_HUINCAST

Column OtherDoorArea of table hulnCast

Card of the column OtherDoorArea of the table hulnCast

Name	OtherDoorArea
Code	OtherDoorArea
Data Type	varchar(15)
Mandatory	FALSE

Standard check of column OtherDoorArea of table hulnCast

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column OtherDoorArea of table huInCast

CKC_OTHERDOORAREA_HUINCAST

Column WindSpeed of table huInCast

Card of the column WindSpeed of the table huInCast

Name	WindSpeed
Code	WindSpeed
Data Type	smallint
Mandatory	FALSE

Standard check of column WindSpeed of table huInCast

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WindSpeed of table huInCast

CKC_WINDSPEED_HUINCAST

Column WindDesignYear of table huInCast

Card of the column WindDesignYear of the table huInCast

Name	WindDesignYear
Code	WindDesignYear
Data Type	smallint
Mandatory	FALSE

Standard check of column WindDesignYear of table huInCast

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WindDesignYear of table huInCast

CKC_WINDDESIGNYEAR_HUINCAST

Column WallExposure of table huInCast

Card of the column WallExposure of the table huInCast

Name	WallExposure
Code	WallExposure
Data Type	int
Mandatory	FALSE

Standard check of column WallExposure of table huInCast

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WallExposure of table huInCast

CKC_WALLEXPOSURE_HUINCAST

Column MHTieDowns of table huInCast

Card of the column MHTieDowns of the table huInCast

Name	MHTieDowns
Code	MHTieDowns
Data Type	varchar(11)
Mandatory	FALSE

Standard check of column MHTieDowns of table huInCast

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MHTieDowns of table huInCast

CKC_MHTIEDOWNS_HUINCAST

List of diagrams containing table huInCast

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huInCast

```
if exists (select 1
          from  sysobjects
         where  id = object_id('huInCast')
          and   type = 'U')
```

```
   drop table huInCast
go


/*==============================================================*/
/* Table: huInCast                                              */
/*==============================================================*/
create table huInCast (
hzIncastID          int                 null,
WindExposure        varchar(25)         null,
Topography          varchar(15)         null,
WindShielding       varchar(15)         null,
ShieldingHeight     varchar(45)         null,
WindDebrisSource    varchar(30)         null,
WindSpeedType       varchar(15)         null,
RoofSlope           varchar(25)         null,
RoofCovering        varchar(45)         null,
RoofShape           varchar(15)         null,
WallAnchorage       varchar(15)         null,
Cladding            varchar(45)         null,
FrameSpacing        varchar(15)         null,
Openings            varchar(15)         null,
Glass               varchar(30)         null,
GlassConstr         varchar(15)         null,
NailSize            varchar(15)         null,
NailSpacing         varchar(15)         null,
GableBracing        varchar(15)         null,
DeckAttach          varchar(12)         null,
RoofSheathing       varchar(30)         null,
WindDesignCode      varchar(15)         null,
ShutterType         varchar(15)         null,
ShutterCde          varchar(30)         null,
GarageDoors         varchar(15)         null,
RollUpDoors         varchar(15)         null,
MHWindZone          varchar(15)         null,
MHCode              varchar(30)         null,
RoofPerimeter       varchar(30)         null,
Protection          varchar(25)         null,
DoorProtection      varchar(15)         null,
OtherDoorArea       varchar(15)         null,
WindSpeed           smallint            null,
WindDesignYear      smallint            null,
WallExposure        int                 null,
MHTieDowns          varchar(11)         null
)
go
```

Table huShelterResultsB

Card of the table huShelterResultsB

Name	huShelterResultsB
Code	huShelterResultsB
DBMS	Microsoft SQL Server 2000

Constraint name of table huShelterResultsB

CKT_HUSHELTERRESULTSB

Column list of the table huShelterResultsB

Name	Code
CensusBlock	CensusBlock
DisplacedHouseHolds	DisplacedHouseHolds
Return_Period	Return_Period
ShortTermShelterNeeds	ShortTermShelterNeeds
bCurrent	bCurrent
huScenarioName	huScenarioName

Column CensusBlock of table huShelterResultsB

Card of the column CensusBlock of the table huShelterResultsB

Name	CensusBlock
Code	CensusBlock
Data Type	char(15)
Mandatory	TRUE

Standard check of column CensusBlock of table huShelterResultsB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CensusBlock of table huShelterResultsB

CKC_CENSUSBLOCK_HUSHELTE

Column Return_Period of table huShelterResultsB

Card of the column Return_Period of the table huShelterResultsB

Name	Return_Period
Code	Return_Period
Data Type	varchar(25)
Mandatory	TRUE

Standard check of column Return_Period of table huShelterResultsB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Return_Period of table huShelterResultsB

CKC_RETURN_PERIOD_HUSHELTE

Column DisplacedHouseHolds of table huShelterResultsB

Card of the column DisplacedHouseHolds of the table huShelterResultsB

Name	DisplacedHouseHolds
Code	DisplacedHouseHolds
Data Type	int
Mandatory	FALSE

Standard check of column DisplacedHouseHolds of table huShelterResultsB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column DisplacedHouseHolds of table huShelterResultsB

CKC_DISPLACEDHOUSEHOL_HUSHELTE

Column ShortTermShelterNeeds of table huShelterResultsB

Card of the column ShortTermShelterNeeds of the table huShelterResultsB

Name	ShortTermShelterNeeds
Code	ShortTermShelterNeeds
Data Type	int
Mandatory	FALSE

Standard check of column ShortTermShelterNeeds of table huShelterResultsB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column ShortTermShelterNeeds of table huShelterResultsB

CKC_SHORTTERMSHELTERN_HUSHELTE

Column bCurrent of table huShelterResultsB

Card of the column bCurrent of the table huShelterResultsB

Name	bCurrent
Code	bCurrent
Data Type	bit
Mandatory	FALSE

Standard check of column bCurrent of table huShelterResultsB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column bCurrent of table huShelterResultsB

CKC_BCURRENT_HUSHELTE

Column huScenarioName of table huShelterResultsB

Card of the column huScenarioName of the table huShelterResultsB

Name	huScenarioName
Code	huScenarioName
Data Type	varchar(40)
Mandatory	FALSE

Standard check of column huScenarioName of table huShelterResultsB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column huScenarioName of table huShelterResultsB

CKC_HUSCENARIONAME_HUSHELTE

Key list of the table huShelterResultsB

Name	Code
AKdbrrltsb	AKdbrrltsb
Key_2	Key_2

Key AKdbrrltsb of table huShelterResultsB

Card of the key AKdbrrltsb of the table huShelterResultsB

Name	AKdbrrltsb
Code	AKdbrrltsb
Table	huShelterResultsB

Column list of the key AKdbrrltsb

Name	Code
CensusBlock	CensusBlock
Return_Period	Return_Period

Code preview of AKdbrrltsb

```
alter table huShelterResultsB
  drop constraint AK_AKDBRRLTSB_HUSHELTE
go
```

Key Key_2 of table huShelterResultsB

Card of the key Key_2 of the table huShelterResultsB

Name	Key_2
Code	Key_2
Table	huShelterResultsB

Column list of the key Key_2

Name	Code
CensusBlock	CensusBlock
Return_Period	Return_Period

Code preview of Key_2

```
alter table huShelterResultsB
  drop constraint PK_HUSHELTERRESULTSB
go
```

Index list of the table huShelterResultsB

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
RLNBLOCK_HUSHELTERRLTS_FK	RLNBLOCK_HUSHELTERRLTS_FK	TRUE	FALSE	FALSE	TRUE	FALSE
RLNBLOCK_RP_FK	RLNBLOCK_RP_FK	FALSE	FALSE	FALSE	TRUE	FALSE

Index RLNBLOCK_HUSHELTERRLTS_FK of table huShelterResultsB

Card of the index RLNBLOCK_HUSHELTERRLTS_FK of the table huShelterResultsB

Name	RLNBLOCK_HUSHELTERRLTS_FK
Code	RLNBLOCK_HUSHELTERRLTS_FK
Unique	TRUE
Cluster	FALSE
Primary	FALSE

Foreign Key	TRUE
Alternate Key	FALSE
Table	huShelterResultsB

Column list of the index RLNBLOCK_HUSHELTERRLTS_FK

Name	Code	Sort
CensusBlock	CensusBlock	Ascending

Code preview of RLNBLOCK_HUSHELTERRLTS_FK

The preview is empty because of the setting.
Check the generation option.

Index RLNBLOCK_RP_FK of table huShelterResultsB

Card of the index RLNBLOCK_RP_FK of the table huShelterResultsB

Name	RLNBLOCK_RP_FK
Code	RLNBLOCK_RP_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huShelterResultsB

Column list of the index RLNBLOCK_RP_FK

Name	Code	Sort
Return_Period	Return_Period	Ascending

Code preview of RLNBLOCK_RP_FK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huShelterResultsB

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huShelterResultsB

```
alter table huShelterResultsB
   drop constraint FK_HUSHELTE_RLNBLOCK__HZCENSUS
go


alter table huShelterResultsB
   drop constraint FK_HUSHELTE_RLNRP_SHE_HURETURN
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huShelterResultsB')
            and   type = 'U')
   drop table huShelterResultsB
go
```

```
/*==============================================================*/
/* Table: huShelterResultsB                                     */
/*==============================================================*/
create table huShelterResultsB (
CensusBlock          char(15)            not null,
Return_Period        varchar(25)         not null,
DisplacedHouseHolds  int                 null,
ShortTermShelterNeeds int                null,
bCurrent             bit                 null,
huScenarioName       varchar(40)         null,
constraint PK_HUSHELTERRESULTSB primary key  (CensusBlock, Return_Period),
constraint AK_AKDBRRLTSB_HUSHELTE unique (CensusBlock, Return_Period)
)
go


alter table huShelterResultsB
   add constraint FK_HUSHELTE_RLNBLOCK__HZCENSUS foreign key (CensusBlock)
      references hzCensusBlock (CensusBlock)
      on delete cascade on update cascade
go


alter table huShelterResultsB
   add constraint FK_HUSHELTE_RLNRP_SHE_HURETURN foreign key (Return_Period)
      references huReturn_Periods (Return_Period)
go
```

Table huSqFootageBldgTypeB

Card of the table huSqFootageBldgTypeB

Name	huSqFootageBldgTypeB
Code	huSqFootageBldgTypeB
DBMS	Microsoft SQL Server 2000

Constraint name of table huSqFootageBldgTypeB

CKT_HUSQFOOTAGEBLDGTYPEB

Column list of the table huSqFootageBldgTypeB

Name	Code
CECBHi	CECBHi
CECBLi	CECBLi
CECBMi	CECBMi
CERBHi	CERBHi
CERBLi	CERBLi
CERBMi	CERBMi
CensusBlock	CensusBlock
MECBHi	MECBHi
MECBLi	MECBLi
MECBMi	MECBMi
MERBHi	MERBHi
MERBLi	MERBLi
MERBMi	MERBMi
MH76HUDi	MH76HUDi

MH94HUDIIIi	MH94HUDIIIi
MH94HUDIIi	MH94HUDIIi
MH94HUDIi	MH94HUDIi
MHPHUDi	MHPHUDi
MLRIi	MLRIi
MLRM1i	MLRM1i
MLRM2i	MLRM2i
MMUH1i	MMUH1i
MMUH2i	MMUH2i
MMUH3i	MMUH3i
MSF1i	MSF1i
MSF2i	MSF2i
SECBHi	SECBHi
SECBLi	SECBLi
SECBMi	SECBMi
SERBHi	SERBHi
SERBLi	SERBLi
SERBMi	SERBMi
SPMBLi	SPMBLi
SPMBMi	SPMBMi
SPMBSi	SPMBSi
WMUH1i	WMUH1i
WMUH2i	WMUH2i
WMUH3i	WMUH3i
WSF1i	WSF1i
WSF2i	WSF2i

Column CensusBlock of table huSqFootageBldgTypeB

Card of the column CensusBlock of the table huSqFootageBldgTypeB

Name	CensusBlock
Code	CensusBlock
Data Type	char(15)
Mandatory	TRUE

Standard check of column CensusBlock of table huSqFootageBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CensusBlock of table huSqFootageBldgTypeB

CKC_CENSUSBLOCK_HUSQFOOT

Column WSF1i of table huSqFootageBldgTypeB

Card of the column WSF1i of the table huSqFootageBldgTypeB

Name	WSF1i
Code	WSF1i
Data Type	real
Mandatory	FALSE

Standard check of column WSF1i of table huSqFootageBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WSF1i of table huSqFootageBldgTypeB

CKC_WSF1I_HUSQFOOT

Column WSF2i of table huSqFootageBldgTypeB

Card of the column WSF2i of the table huSqFootageBldgTypeB

Name	WSF2i
Code	WSF2i
Data Type	real
Mandatory	FALSE

Standard check of column WSF2i of table huSqFootageBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WSF2i of table huSqFootageBldgTypeB

CKC_WSF2I_HUSQFOOT

Column WMUH1i of table huSqFootageBldgTypeB

Card of the column WMUH1i of the table huSqFootageBldgTypeB

Name	WMUH1i
Code	WMUH1i
Data Type	real
Mandatory	FALSE

Standard check of column WMUH1i of table huSqFootageBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WMUH1i of table huSqFootageBldgTypeB

CKC_WMUH1I_HUSQFOOT

Column WMUH2i of table huSqFootageBldgTypeB

Card of the column WMUH2i of the table huSqFootageBldgTypeB

Name	WMUH2i
Code	WMUH2i
Data Type	real
Mandatory	FALSE

Standard check of column WMUH2i of table huSqFootageBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WMUH2i of table huSqFootageBldgTypeB

CKC_WMUH2I_HUSQFOOT

Column WMUH3i of table huSqFootageBldgTypeB

Card of the column WMUH3i of the table huSqFootageBldgTypeB

Name	WMUH3i
Code	WMUH3i
Data Type	real
Mandatory	FALSE

Standard check of column WMUH3i of table huSqFootageBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE

Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WMUH3i of table huSqFootageBldgTypeB

CKC_WMUH3I_HUSQFOOT

Column MSF1i of table huSqFootageBldgTypeB

Card of the column MSF1i of the table huSqFootageBldgTypeB

Name	MSF1i
Code	MSF1i
Data Type	real
Mandatory	FALSE

Standard check of column MSF1i of table huSqFootageBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MSF1i of table huSqFootageBldgTypeB

CKC_MSF1I_HUSQFOOT

Column MSF2i of table huSqFootageBldgTypeB

Card of the column MSF2i of the table huSqFootageBldgTypeB

Name	MSF2i
Code	MSF2i
Data Type	real
Mandatory	FALSE

Standard check of column MSF2i of table huSqFootageBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MSF2i of table huSqFootageBldgTypeB

CKC_MSF2I_HUSQFOOT

Column MMUH1i of table huSqFootageBldgTypeB

Card of the column MMUH1i of the table huSqFootageBldgTypeB

Name	MMUH1i
Code	MMUH1i
Data Type	real
Mandatory	FALSE

Standard check of column MMUH1i of table huSqFootageBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MMUH1i of table huSqFootageBldgTypeB

CKC_MMUH1I_HUSQFOOT

Column MMUH2i of table huSqFootageBldgTypeB

Card of the column MMUH2i of the table huSqFootageBldgTypeB

Name	MMUH2i
Code	MMUH2i
Data Type	real
Mandatory	FALSE

Standard check of column MMUH2i of table huSqFootageBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MMUH2i of table huSqFootageBldgTypeB

CKC_MMUH2I_HUSQFOOT

Column MMUH3i of table huSqFootageBldgTypeB

Card of the column MMUH3i of the table huSqFootageBldgTypeB

Name	MMUH3i
Code	MMUH3i
Data Type	real
Mandatory	FALSE

Standard check of column MMUH3i of table huSqFootageBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MMUH3i of table huSqFootageBldgTypeB

CKC_MMUH3I_HUSQFOOT

Column MLRM1i of table huSqFootageBldgTypeB

Card of the column MLRM1i of the table huSqFootageBldgTypeB

Name	MLRM1i
Code	MLRM1i
Data Type	real
Mandatory	FALSE

Standard check of column MLRM1i of table huSqFootageBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MLRM1i of table huSqFootageBldgTypeB

CKC_MLRM1I_HUSQFOOT

Column MLRM2i of table huSqFootageBldgTypeB

Card of the column MLRM2i of the table huSqFootageBldgTypeB

Name	MLRM2i
Code	MLRM2i
Data Type	real
Mandatory	FALSE

Standard check of column MLRM2i of table huSqFootageBldgTypeB

Low value	
High value	
Default value	
Unit	

Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MLRM2i of table huSqFootageBldgTypeB

CKC_MLRM2I_HUSQFOOT

Column MLRIi of table huSqFootageBldgTypeB

Card of the column MLRIi of the table huSqFootageBldgTypeB

Name	MLRIi
Code	MLRIi
Data Type	real
Mandatory	FALSE

Standard check of column MLRIi of table huSqFootageBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MLRIi of table huSqFootageBldgTypeB

CKC_MLRII_HUSQFOOT

Column MERBLi of table huSqFootageBldgTypeB

Card of the column MERBLi of the table huSqFootageBldgTypeB

Name	MERBLi
Code	MERBLi
Data Type	real
Mandatory	FALSE

Standard check of column MERBLi of table huSqFootageBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MERBLi of table huSqFootageBldgTypeB

CKC_MERBLI_HUSQFOOT

Column MERBMi of table huSqFootageBldgTypeB

Card of the column MERBMi of the table huSqFootageBldgTypeB

Name	MERBMi
Code	MERBMi
Data Type	real
Mandatory	FALSE

Standard check of column MERBMi of table huSqFootageBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MERBMi of table huSqFootageBldgTypeB

CKC_MERBMI_HUSQFOOT

Column MERBHi of table huSqFootageBldgTypeB

Card of the column MERBHi of the table huSqFootageBldgTypeB

Name	MERBHi
Code	MERBHi
Data Type	real
Mandatory	FALSE

Standard check of column MERBHi of table huSqFootageBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MERBHi of table huSqFootageBldgTypeB

CKC_MERBHI_HUSQFOOT

Column MECBLi of table huSqFootageBldgTypeB

Card of the column MECBLi of the table huSqFootageBldgTypeB

Name	MECBLi
Code	MECBLi
Data Type	real
Mandatory	FALSE

Standard check of column MECBLi of table huSqFootageBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MECBLi of table huSqFootageBldgTypeB

CKC_MECBLI_HUSQFOOT

Column MECBMi of table huSqFootageBldgTypeB

Card of the column MECBMi of the table huSqFootageBldgTypeB

Name	MECBMi
Code	MECBMi
Data Type	real
Mandatory	FALSE

Standard check of column MECBMi of table huSqFootageBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MECBMi of table huSqFootageBldgTypeB

CKC_MECBMI_HUSQFOOT

Column MECBHi of table huSqFootageBldgTypeB

Card of the column MECBHi of the table huSqFootageBldgTypeB

Name	MECBHi
Code	MECBHi
Data Type	real
Mandatory	FALSE

Standard check of column MECBHi of table huSqFootageBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MECBHi of table huSqFootageBldgTypeB

CKC_MECBHI_HUSQFOOT

Column CERBLi of table huSqFootageBldgTypeB

Card of the column CERBLi of the table huSqFootageBldgTypeB

Name	CERBLi
Code	CERBLi
Data Type	real
Mandatory	FALSE

Standard check of column CERBLi of table huSqFootageBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CERBLi of table huSqFootageBldgTypeB

CKC_CERBLI_HUSQFOOT

Column CERBMi of table huSqFootageBldgTypeB

Card of the column CERBMi of the table huSqFootageBldgTypeB

Name	CERBMi
Code	CERBMi
Data Type	real
Mandatory	FALSE

Standard check of column CERBMi of table huSqFootageBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	

Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CERBMi of table huSqFootageBldgTypeB

CKC_CERBMI_HUSQFOOT

Column CERBHi of table huSqFootageBldgTypeB

Card of the column CERBHi of the table huSqFootageBldgTypeB

Name	CERBHi
Code	CERBHi
Data Type	real
Mandatory	FALSE

Standard check of column CERBHi of table huSqFootageBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CERBHi of table huSqFootageBldgTypeB

CKC_CERBHI_HUSQFOOT

Column CECBLi of table huSqFootageBldgTypeB

Card of the column CECBLi of the table huSqFootageBldgTypeB

Name	CECBLi
Code	CECBLi
Data Type	real
Mandatory	FALSE

Standard check of column CECBLi of table huSqFootageBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CECBLi of table huSqFootageBldgTypeB

CKC_CECBLI_HUSQFOOT

Column CECBMi of table huSqFootageBldgTypeB

Card of the column CECBMi of the table huSqFootageBldgTypeB

Name	CECBMi
Code	CECBMi
Data Type	real
Mandatory	FALSE

Standard check of column CECBMi of table huSqFootageBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CECBMi of table huSqFootageBldgTypeB

CKC_CECBMI_HUSQFOOT

Column CECBHi of table huSqFootageBldgTypeB

Card of the column CECBHi of the table huSqFootageBldgTypeB

Name	CECBHi
Code	CECBHi
Data Type	real
Mandatory	FALSE

Standard check of column CECBHi of table huSqFootageBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CECBHi of table huSqFootageBldgTypeB

CKC_CECBHI_HUSQFOOT

Column SPMBSi of table huSqFootageBldgTypeB

Card of the column SPMBSi of the table huSqFootageBldgTypeB

Name	SPMBSi
Code	SPMBSi

Data Type	real
Mandatory	FALSE

Standard check of column SPMBSi of table huSqFootageBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SPMBSi of table huSqFootageBldgTypeB

CKC_SPMBSI_HUSQFOOT

Column SPMBMi of table huSqFootageBldgTypeB

Card of the column SPMBMi of the table huSqFootageBldgTypeB

Name	SPMBMi
Code	SPMBMi
Data Type	real
Mandatory	FALSE

Standard check of column SPMBMi of table huSqFootageBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SPMBMi of table huSqFootageBldgTypeB

CKC_SPMBMI_HUSQFOOT

Column SPMBLi of table huSqFootageBldgTypeB

Card of the column SPMBLi of the table huSqFootageBldgTypeB

Name	SPMBLi
Code	SPMBLi
Data Type	real
Mandatory	FALSE

Standard check of column SPMBLi of table huSqFootageBldgTypeB

Low value	
High value	
Default value	

Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SPMBLi of table huSqFootageBldgTypeB

CKC_SPMBLI_HUSQFOOT

Column SERBLi of table huSqFootageBldgTypeB

Card of the column SERBLi of the table huSqFootageBldgTypeB

Name	SERBLi
Code	SERBLi
Data Type	real
Mandatory	FALSE

Standard check of column SERBLi of table huSqFootageBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SERBLi of table huSqFootageBldgTypeB

CKC_SERBLI_HUSQFOOT

Column SERBMi of table huSqFootageBldgTypeB

Card of the column SERBMi of the table huSqFootageBldgTypeB

Name	SERBMi
Code	SERBMi
Data Type	real
Mandatory	FALSE

Standard check of column SERBMi of table huSqFootageBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SERBMi of table huSqFootageBldgTypeB

CKC_SERBMI_HUSQFOOT

Column SERBHi of table huSqFootageBldgTypeB

Card of the column SERBHi of the table huSqFootageBldgTypeB

Name	SERBHi
Code	SERBHi
Data Type	real
Mandatory	FALSE

Standard check of column SERBHi of table huSqFootageBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SERBHi of table huSqFootageBldgTypeB

CKC_SERBHI_HUSQFOOT

Column SECBLi of table huSqFootageBldgTypeB

Card of the column SECBLi of the table huSqFootageBldgTypeB

Name	SECBLi
Code	SECBLi
Data Type	real
Mandatory	FALSE

Standard check of column SECBLi of table huSqFootageBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SECBLi of table huSqFootageBldgTypeB

CKC_SECBLI_HUSQFOOT

Column SECBMi of table huSqFootageBldgTypeB

Card of the column SECBMi of the table huSqFootageBldgTypeB

Name	SECBMi
Code	SECBMi
Data Type	real
Mandatory	FALSE

Standard check of column SECBMi of table huSqFootageBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SECBMi of table huSqFootageBldgTypeB

CKC_SECBMI_HUSQFOOT

Column SECBHi of table huSqFootageBldgTypeB

Card of the column SECBHi of the table huSqFootageBldgTypeB

Name	SECBHi
Code	SECBHi
Data Type	real
Mandatory	FALSE

Standard check of column SECBHi of table huSqFootageBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SECBHi of table huSqFootageBldgTypeB

CKC_SECBHI_HUSQFOOT

Column MHPHUDi of table huSqFootageBldgTypeB

Card of the column MHPHUDi of the table huSqFootageBldgTypeB

Name	MHPHUDi
Code	MHPHUDi
Data Type	real
Mandatory	FALSE

Standard check of column MHPHUDi of table huSqFootageBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MHPHUDi of table huSqFootageBldgTypeB

CKC_MHPHUDI_HUSQFOOT

Column MH76HUDi of table huSqFootageBldgTypeB

Card of the column MH76HUDi of the table huSqFootageBldgTypeB

Name	MH76HUDi
Code	MH76HUDi
Data Type	real
Mandatory	FALSE

Standard check of column MH76HUDi of table huSqFootageBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MH76HUDi of table huSqFootageBldgTypeB

CKC_MH76HUDI_HUSQFOOT

Column MH94HUDIi of table huSqFootageBldgTypeB

Card of the column MH94HUDIi of the table huSqFootageBldgTypeB

Name	MH94HUDIi
Code	MH94HUDIi
Data Type	real
Mandatory	FALSE

Standard check of column MH94HUDIi of table huSqFootageBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE

Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MH94HUDIi of table huSqFootageBldgTypeB

CKC_MH94HUDII_HUSQFOOT

Column MH94HUDIIi of table huSqFootageBldgTypeB

Card of the column MH94HUDIIi of the table huSqFootageBldgTypeB

Name	MH94HUDIIi
Code	MH94HUDIIi
Data Type	real
Mandatory	FALSE

Standard check of column MH94HUDIIi of table huSqFootageBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MH94HUDIIi of table huSqFootageBldgTypeB

CKC_MH94HUDIII_HUSQFOOT

Column MH94HUDIIIi of table huSqFootageBldgTypeB

Card of the column MH94HUDIIIi of the table huSqFootageBldgTypeB

Name	MH94HUDIIIi
Code	MH94HUDIIIi
Data Type	real
Mandatory	FALSE

Standard check of column MH94HUDIIIi of table huSqFootageBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MH94HUDIIIi of table huSqFootageBldgTypeB

CKC_MH94HUDIIII_HUSQFOOT

Key list of the table huSqFootageBldgTypeB

Name	Code
idtKey	idtKey

Key idtKey of table huSqFootageBldgTypeB

Card of the key idtKey of the table huSqFootageBldgTypeB

Name	idtKey
Code	idtKey
Table	huSqFootageBldgTypeB

Column list of the key idtKey

Name	Code
CensusBlock	CensusBlock

Code preview of idtKey

```
alter table huSqFootageBldgTypeB
  drop constraint PK_HUSQFOOTAGEBLDGTYPEB
go
```

Index list of the table huSqFootageBldgTypeB

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
RLNBLOCK_HUSQFB_FK	RLNBLOCK_HUSQFB_FK	FALSE	FALSE	FALSE	TRUE	FALSE

Index RLNBLOCK_HUSQFB_FK of table huSqFootageBldgTypeB

Card of the index RLNBLOCK_HUSQFB_FK of the table huSqFootageBldgTypeB

Name	RLNBLOCK_HUSQFB_FK
Code	RLNBLOCK_HUSQFB_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huSqFootageBldgTypeB

Column list of the index RLNBLOCK_HUSQFB_FK

Name	Code	Sort
CensusBlock	CensusBlock	Ascending

Code preview of RLNBLOCK_HUSQFB_FK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huSqFootageBldgTypeB

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huSqFootageBldgTypeB

```
alter table huSqFootageBldgTypeB
   drop constraint FK_HUSQFOOT_RLNBLOCK__HZCENSUS
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huSqFootageBldgTypeB')
            and   type = 'U')
   drop table huSqFootageBldgTypeB
go


/*==============================================================*/
/* Table: huSqFootageBldgTypeB                                  */
/*==============================================================*/
create table huSqFootageBldgTypeB (
CensusBlock          char(15)             not null,
WSF1i                real                 null,
WSF2i                real                 null,
WMUH1i               real                 null,
WMUH2i               real                 null,
WMUH3i               real                 null,
MSF1i                real                 null,
MSF2i                real                 null,
MMUH1i               real                 null,
MMUH2i               real                 null,
MMUH3i               real                 null,
MLRM1i               real                 null,
MLRM2i               real                 null,
MLRIi                real                 null,
MERBLi               real                 null,
MERBMi               real                 null,
MERBHi               real                 null,
MECBLi               real                 null,
MECBMi               real                 null,
MECBHi               real                 null,
CERBLi               real                 null,
CERBMi               real                 null,
CERBHi               real                 null,
CECBLi               real                 null,
CECBMi               real                 null,
CECBHi               real                 null,
SPMBSi               real                 null,
SPMBMi               real                 null,
SPMBLi               real                 null,
SERBLi               real                 null,
SERBMi               real                 null,
SERBHi               real                 null,
SECBLi               real                 null,
SECBMi               real                 null,
SECBHi               real                 null,
MHPHUDi              real                 null,
MH76HUDi             real                 null,
MH94HUDIi            real                 null,
MH94HUDIIi           real                 null,
MH94HUDIIIi          real                 null,
constraint PK_HUSQFOOTAGEBLDGTYPEB primary key  (CensusBlock)
)
go
```

```
alter table huSqFootageBldgTypeB
  add constraint FK_HUSQFOOT_RLNBLOCK__HZCENSUS foreign key (CensusBlock)
    references hzCensusBlock (CensusBlock)
go
```

Table huSqFootageBldgTypeT

Card of the table huSqFootageBldgTypeT

Name	huSqFootageBldgTypeT
Code	huSqFootageBldgTypeT
DBMS	Microsoft SQL Server 2000

Constraint name of table huSqFootageBldgTypeT

CKT_HUSQFOOTAGEBLDGTYPET

Column list of the table huSqFootageBldgTypeT

Name	Code
CECBHi	CECBHi
CECBLi	CECBLi
CECBMi	CECBMi
CERBHi	CERBHi
CERBLi	CERBLi
CERBMi	CERBMi
MECBHi	MECBHi
MECBLi	MECBLi
MECBMi	MECBMi
MERBHi	MERBHi
MERBLi	MERBLi
MERBMi	MERBMi
MH76HUDi	MH76HUDi
MH94HUDIIIi	MH94HUDIIIi
MH94HUDIIi	MH94HUDIIi
MH94HUDIi	MH94HUDIi
MHPHUDi	MHPHUDi
MLRIi	MLRIi
MLRM1i	MLRM1i
MLRM2i	MLRM2i
MMUH1i	MMUH1i
MMUH2i	MMUH2i
MMUH3i	MMUH3i
MSF1i	MSF1i
MSF2i	MSF2i
SECBHi	SECBHi
SECBLi	SECBLi
SECBMi	SECBMi
SERBHi	SERBHi
SERBLi	SERBLi
SERBMi	SERBMi
SPMBLi	SPMBLi
SPMBMi	SPMBMi
SPMBSi	SPMBSi
Tract	TRACT
WMUH1i	WMUH1i

WMUH2i	WMUH2i
WMUH3i	WMUH3i
WSF1i	WSF1i
WSF2i	WSF2i

Column Tract of table huSqFootageBldgTypeT

Card of the column Tract of the table huSqFootageBldgTypeT

Name	Tract
Code	TRACT
Data Type	char(11)
Mandatory	TRUE

Standard check of column Tract of table huSqFootageBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Tract of table huSqFootageBldgTypeT

CKC_TRACT_HUSQFOOT

Column WSF1i of table huSqFootageBldgTypeT

Card of the column WSF1i of the table huSqFootageBldgTypeT

Name	WSF1i
Code	WSF1i
Data Type	real
Mandatory	FALSE

Standard check of column WSF1i of table huSqFootageBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WSF1i of table huSqFootageBldgTypeT

CKC_WSF1I_HUSQFOOT

Column WSF2i of table huSqFootageBldgTypeT

Card of the column WSF2i of the table huSqFootageBldgTypeT

Name	WSF2i
Code	WSF2i
Data Type	real
Mandatory	FALSE

Standard check of column WSF2i of table huSqFootageBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WSF2i of table huSqFootageBldgTypeT

CKC_WSF2I_HUSQFOOT

Column WMUH1i of table huSqFootageBldgTypeT

Card of the column WMUH1i of the table huSqFootageBldgTypeT

Name	WMUH1i
Code	WMUH1i
Data Type	real
Mandatory	FALSE

Standard check of column WMUH1i of table huSqFootageBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WMUH1i of table huSqFootageBldgTypeT

CKC_WMUH1I_HUSQFOOT

Column WMUH2i of table huSqFootageBldgTypeT

Card of the column WMUH2i of the table huSqFootageBldgTypeT

Name	WMUH2i
Code	WMUH2i
Data Type	real
Mandatory	FALSE

Standard check of column WMUH2i of table huSqFootageBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WMUH2i of table huSqFootageBldgTypeT

CKC_WMUH2I_HUSQFOOT

Column WMUH3i of table huSqFootageBldgTypeT

Card of the column WMUH3i of the table huSqFootageBldgTypeT

Name	WMUH3i
Code	WMUH3i
Data Type	real
Mandatory	FALSE

Standard check of column WMUH3i of table huSqFootageBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WMUH3i of table huSqFootageBldgTypeT

CKC_WMUH3I_HUSQFOOT

Column MSF1i of table huSqFootageBldgTypeT

Card of the column MSF1i of the table huSqFootageBldgTypeT

Name	MSF1i
Code	MSF1i
Data Type	real
Mandatory	FALSE

Standard check of column MSF1i of table huSqFootageBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	

Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MSF1i of table huSqFootageBldgTypeT

CKC_MSF1I_HUSQFOOT

Column MSF2i of table huSqFootageBldgTypeT

Card of the column MSF2i of the table huSqFootageBldgTypeT

Name	MSF2i
Code	MSF2i
Data Type	real
Mandatory	FALSE

Standard check of column MSF2i of table huSqFootageBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MSF2i of table huSqFootageBldgTypeT

CKC_MSF2I_HUSQFOOT

Column MMUH1i of table huSqFootageBldgTypeT

Card of the column MMUH1i of the table huSqFootageBldgTypeT

Name	MMUH1i
Code	MMUH1i
Data Type	real
Mandatory	FALSE

Standard check of column MMUH1i of table huSqFootageBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MMUH1i of table huSqFootageBldgTypeT

CKC_MMUH1I_HUSQFOOT

Column MMUH2i of table huSqFootageBldgTypeT

Card of the column MMUH2i of the table huSqFootageBldgTypeT

Name	MMUH2i
Code	MMUH2i
Data Type	real
Mandatory	FALSE

Standard check of column MMUH2i of table huSqFootageBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MMUH2i of table huSqFootageBldgTypeT

CKC_MMUH2I_HUSQFOOT

Column MMUH3i of table huSqFootageBldgTypeT

Card of the column MMUH3i of the table huSqFootageBldgTypeT

Name	MMUH3i
Code	MMUH3i
Data Type	real
Mandatory	FALSE

Standard check of column MMUH3i of table huSqFootageBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MMUH3i of table huSqFootageBldgTypeT

CKC_MMUH3I_HUSQFOOT

Column MLRM1i of table huSqFootageBldgTypeT

Card of the column MLRM1i of the table huSqFootageBldgTypeT

Name	MLRM1i
Code	MLRM1i

Data Type	real
Mandatory	FALSE

Standard check of column MLRM1i of table huSqFootageBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MLRM1i of table huSqFootageBldgTypeT

CKC_MLRM1I_HUSQFOOT

Column MLRM2i of table huSqFootageBldgTypeT

Card of the column MLRM2i of the table huSqFootageBldgTypeT

Name	MLRM2i
Code	MLRM2i
Data Type	real
Mandatory	FALSE

Standard check of column MLRM2i of table huSqFootageBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MLRM2i of table huSqFootageBldgTypeT

CKC_MLRM2I_HUSQFOOT

Column MLRIi of table huSqFootageBldgTypeT

Card of the column MLRIi of the table huSqFootageBldgTypeT

Name	MLRIi
Code	MLRIi
Data Type	real
Mandatory	FALSE

Standard check of column MLRIi of table huSqFootageBldgTypeT

Low value	
High value	
Default value	

Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MLRIi of table huSqFootageBldgTypeT

CKC_MLRII_HUSQFOOT

Column MERBLi of table huSqFootageBldgTypeT

Card of the column MERBLi of the table huSqFootageBldgTypeT

Name	MERBLi
Code	MERBLi
Data Type	real
Mandatory	FALSE

Standard check of column MERBLi of table huSqFootageBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MERBLi of table huSqFootageBldgTypeT

CKC_MERBLI_HUSQFOOT

Column MERBMi of table huSqFootageBldgTypeT

Card of the column MERBMi of the table huSqFootageBldgTypeT

Name	MERBMi
Code	MERBMi
Data Type	real
Mandatory	FALSE

Standard check of column MERBMi of table huSqFootageBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MERBMi of table huSqFootageBldgTypeT

CKC_MERBMI_HUSQFOOT

Column MERBHi of table huSqFootageBldgTypeT

Card of the column MERBHi of the table huSqFootageBldgTypeT

Name	MERBHi
Code	MERBHi
Data Type	real
Mandatory	FALSE

Standard check of column MERBHi of table huSqFootageBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MERBHi of table huSqFootageBldgTypeT

CKC_MERBHI_HUSQFOOT

Column MECBLi of table huSqFootageBldgTypeT

Card of the column MECBLi of the table huSqFootageBldgTypeT

Name	MECBLi
Code	MECBLi
Data Type	real
Mandatory	FALSE

Standard check of column MECBLi of table huSqFootageBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MECBLi of table huSqFootageBldgTypeT

CKC_MECBLI_HUSQFOOT

Column MECBMi of table huSqFootageBldgTypeT

Card of the column MECBMi of the table huSqFootageBldgTypeT

Name	MECBMi
Code	MECBMi
Data Type	real
Mandatory	FALSE

Standard check of column MECBMi of table huSqFootageBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MECBMi of table huSqFootageBldgTypeT

CKC_MECBMI_HUSQFOOT

Column MECBHi of table huSqFootageBldgTypeT

Card of the column MECBHi of the table huSqFootageBldgTypeT

Name	MECBHi
Code	MECBHi
Data Type	real
Mandatory	FALSE

Standard check of column MECBHi of table huSqFootageBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MECBHi of table huSqFootageBldgTypeT

CKC_MECBHI_HUSQFOOT

Column CERBLi of table huSqFootageBldgTypeT

Card of the column CERBLi of the table huSqFootageBldgTypeT

Name	CERBLi
Code	CERBLi
Data Type	real
Mandatory	FALSE

Standard check of column CERBLi of table huSqFootageBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CERBLi of table huSqFootageBldgTypeT

CKC_CERBLI_HUSQFOOT

Column CERBMi of table huSqFootageBldgTypeT

Card of the column CERBMi of the table huSqFootageBldgTypeT

Name	CERBMi
Code	CERBMi
Data Type	real
Mandatory	FALSE

Standard check of column CERBMi of table huSqFootageBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CERBMi of table huSqFootageBldgTypeT

CKC_CERBMI_HUSQFOOT

Column CERBHi of table huSqFootageBldgTypeT

Card of the column CERBHi of the table huSqFootageBldgTypeT

Name	CERBHi
Code	CERBHi
Data Type	real
Mandatory	FALSE

Standard check of column CERBHi of table huSqFootageBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE

Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CERBHi of table huSqFootageBldgTypeT

CKC_CERBHI_HUSQFOOT

Column CECBLi of table huSqFootageBldgTypeT

Card of the column CECBLi of the table huSqFootageBldgTypeT

Name	CECBLi
Code	CECBLi
Data Type	real
Mandatory	FALSE

Standard check of column CECBLi of table huSqFootageBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CECBLi of table huSqFootageBldgTypeT

CKC_CECBLI_HUSQFOOT

Column CECBMi of table huSqFootageBldgTypeT

Card of the column CECBMi of the table huSqFootageBldgTypeT

Name	CECBMi
Code	CECBMi
Data Type	real
Mandatory	FALSE

Standard check of column CECBMi of table huSqFootageBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CECBMi of table huSqFootageBldgTypeT

CKC_CECBMI_HUSQFOOT

Column CECBHi of table huSqFootageBldgTypeT

Card of the column CECBHi of the table huSqFootageBldgTypeT

Name	CECBHi
Code	CECBHi
Data Type	real
Mandatory	FALSE

Standard check of column CECBHi of table huSqFootageBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CECBHi of table huSqFootageBldgTypeT

CKC_CECBHI_HUSQFOOT

Column SPMBSi of table huSqFootageBldgTypeT

Card of the column SPMBSi of the table huSqFootageBldgTypeT

Name	SPMBSi
Code	SPMBSi
Data Type	real
Mandatory	FALSE

Standard check of column SPMBSi of table huSqFootageBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SPMBSi of table huSqFootageBldgTypeT

CKC_SPMBSI_HUSQFOOT

Column SPMBMi of table huSqFootageBldgTypeT

Card of the column SPMBMi of the table huSqFootageBldgTypeT

Name	SPMBMi
Code	SPMBMi
Data Type	real
Mandatory	FALSE

Standard check of column SPMBMi of table huSqFootageBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SPMBMi of table huSqFootageBldgTypeT

CKC_SPMBMI_HUSQFOOT

Column SPMBLi of table huSqFootageBldgTypeT

Card of the column SPMBLi of the table huSqFootageBldgTypeT

Name	SPMBLi
Code	SPMBLi
Data Type	real
Mandatory	FALSE

Standard check of column SPMBLi of table huSqFootageBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SPMBLi of table huSqFootageBldgTypeT

CKC_SPMBLI_HUSQFOOT

Column SERBLi of table huSqFootageBldgTypeT

Card of the column SERBLi of the table huSqFootageBldgTypeT

Name	SERBLi
Code	SERBLi
Data Type	real
Mandatory	FALSE

Standard check of column SERBLi of table huSqFootageBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	

Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SERBLi of table huSqFootageBldgTypeT

CKC_SERBLI_HUSQFOOT

Column SERBMi of table huSqFootageBldgTypeT

Card of the column SERBMi of the table huSqFootageBldgTypeT

Name	SERBMi
Code	SERBMi
Data Type	real
Mandatory	FALSE

Standard check of column SERBMi of table huSqFootageBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SERBMi of table huSqFootageBldgTypeT

CKC_SERBMI_HUSQFOOT

Column SERBHi of table huSqFootageBldgTypeT

Card of the column SERBHi of the table huSqFootageBldgTypeT

Name	SERBHi
Code	SERBHi
Data Type	real
Mandatory	FALSE

Standard check of column SERBHi of table huSqFootageBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SERBHi of table huSqFootageBldgTypeT

CKC_SERBHI_HUSQFOOT

Column SECBLi of table huSqFootageBldgTypeT

Card of the column SECBLi of the table huSqFootageBldgTypeT

Name	SECBLi
Code	SECBLi
Data Type	real
Mandatory	FALSE

Standard check of column SECBLi of table huSqFootageBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SECBLi of table huSqFootageBldgTypeT

CKC_SECBLI_HUSQFOOT

Column SECBMi of table huSqFootageBldgTypeT

Card of the column SECBMi of the table huSqFootageBldgTypeT

Name	SECBMi
Code	SECBMi
Data Type	real
Mandatory	FALSE

Standard check of column SECBMi of table huSqFootageBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SECBMi of table huSqFootageBldgTypeT

CKC_SECBMI_HUSQFOOT

Column SECBHi of table huSqFootageBldgTypeT

Card of the column SECBHi of the table huSqFootageBldgTypeT

Name	SECBHi
Code	SECBHi

Data Type	real
Mandatory	FALSE

Standard check of column SECBHi of table huSqFootageBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SECBHi of table huSqFootageBldgTypeT

CKC_SECBHI_HUSQFOOT

Column MHPHUDi of table huSqFootageBldgTypeT

Card of the column MHPHUDi of the table huSqFootageBldgTypeT

Name	MHPHUDi
Code	MHPHUDi
Data Type	real
Mandatory	FALSE

Standard check of column MHPHUDi of table huSqFootageBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MHPHUDi of table huSqFootageBldgTypeT

CKC_MHPHUDI_HUSQFOOT

Column MH76HUDi of table huSqFootageBldgTypeT

Card of the column MH76HUDi of the table huSqFootageBldgTypeT

Name	MH76HUDi
Code	MH76HUDi
Data Type	real
Mandatory	FALSE

Standard check of column MH76HUDi of table huSqFootageBldgTypeT

Low value	
High value	
Default value	

Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MH76HUDi of table huSqFootageBldgTypeT

CKC_MH76HUDI_HUSQFOOT

Column MH94HUDIi of table huSqFootageBldgTypeT

Card of the column MH94HUDIi of the table huSqFootageBldgTypeT

Name	MH94HUDIi
Code	MH94HUDIi
Data Type	real
Mandatory	FALSE

Standard check of column MH94HUDIi of table huSqFootageBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MH94HUDIi of table huSqFootageBldgTypeT

CKC_MH94HUDII_HUSQFOOT

Column MH94HUDIIi of table huSqFootageBldgTypeT

Card of the column MH94HUDIIi of the table huSqFootageBldgTypeT

Name	MH94HUDIIi
Code	MH94HUDIIi
Data Type	real
Mandatory	FALSE

Standard check of column MH94HUDIIi of table huSqFootageBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MH94HUDIIi of table huSqFootageBldgTypeT

CKC_MH94HUDIII_HUSQFOOT

Column MH94HUDIIIi of table huSqFootageBldgTypeT

Card of the column MH94HUDIIIi of the table huSqFootageBldgTypeT

Name	MH94HUDIIIi
Code	MH94HUDIIIi
Data Type	real
Mandatory	FALSE

Standard check of column MH94HUDIIIi of table huSqFootageBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MH94HUDIIIi of table huSqFootageBldgTypeT

CKC_MH94HUDIIII_HUSQFOOT

Key list of the table huSqFootageBldgTypeT

Name	Code
idtKey	idtKey

Key idtKey of table huSqFootageBldgTypeT

Card of the key idtKey of the table huSqFootageBldgTypeT

Name	idtKey
Code	idtKey
Table	huSqFootageBldgTypeT

Column list of the key idtKey

Name	Code
Tract	TRACT

Code preview of idtKey

```
alter table huSqFootageBldgTypeT
   drop constraint PK_HUSQFOOTAGEBLDGTYPET
go
```

Index list of the table huSqFootageBldgTypeT

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
RLNTRACT_HUSQFT_FK	RLNTRACT_HUSQFT_FK	FALSE	FALSE	FALSE	TRUE	FALSE

Index RLNTRACT_HUSQFT_FK of table huSqFootageBldgTypeT

Card of the index RLNTRACT_HUSQFT_FK of the table huSqFootageBldgTypeT

Name	RLNTRACT_HUSQFT_FK
Code	RLNTRACT_HUSQFT_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huSqFootageBldgTypeT

Column list of the index RLNTRACT_HUSQFT_FK

Name	Code	Sort
Tract	TRACT	Ascending

Code preview of RLNTRACT_HUSQFT_FK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huSqFootageBldgTypeT

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huSqFootageBldgTypeT

```
alter table huSqFootageBldgTypeT
   drop constraint FK_HUSQFOOT_RLNTRACT__HZTRACT
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huSqFootageBldgTypeT')
            and   type = 'U')
   drop table huSqFootageBldgTypeT
go


/*==============================================================*/
/* Table: huSqFootageBldgTypeT                                  */
/*==============================================================*/
create table huSqFootageBldgTypeT (
TRACT              char(11)           not null,
WSF1i              real               null,
WSF2i              real               null,
WMUH1i             real               null,
WMUH2i             real               null,
WMUH3i             real               null,
MSF1i              real               null,
MSF2i              real               null,
MMUH1i             real               null,
MMUH2i             real               null,
MMUH3i             real               null,
MLRM1i             real               null,
MLRM2i             real               null,
```

```
MLRIi          real          null,
MERBLi         real          null,
MERBMi         real          null,
MERBHi         real          null,
MECBLi         real          null,
MECBMi         real          null,
MECBHi         real          null,
CERBLi         real          null,
CERBMi         real          null,
CERBHi         real          null,
CECBLi         real          null,
CECBMi         real          null,
CECBHi         real          null,
SPMBSi         real          null,
SPMBMi         real          null,
SPMBLi         real          null,
SERBLi         real          null,
SERBMi         real          null,
SERBHi         real          null,
SECBLi         real          null,
SECBMi         real          null,
SECBHi         real          null,
MHPHUDi        real          null,
MH76HUDi       real          null,
MH94HUDIi      real          null,
MH94HUDIIi     real          null,
MH94HUDIIIi    real          null,
constraint PK_HUSQFOOTAGEBLDGTYPET primary key  (TRACT)
)
go


alter table huSqFootageBldgTypeT
  add constraint FK_HUSQFOOT_RLNTRACT__HZTRACT foreign key (TRACT)
    references hzTract (Tract)
go
```

Table huSchool

Card of the table huSchool

Name	huSchool
Code	huSchool
DBMS	Microsoft SQL Server 2000

Constraint name of table huSchool

CKT_HUSCHOOL

Column list of the table huSchool

Name	Code
SchoolId	SchoolId
huBldgSchemeName	huBldgSchemeName
sbtName	sbtName

Column SchoolId of table huSchool

Card of the column SchoolId of the table huSchool

Name	SchoolId
Code	SchoolId
Data Type	char(8)
Mandatory	TRUE

Standard check of column SchoolId of table huSchool

Low value	
High value	
Default value	
Unit	
Format	AA999999
Upper case	TRUE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SchoolId of table huSchool

CKC_SCHOOLID_HUSCHOOL

Column huBldgSchemeName of table huSchool

Card of the column huBldgSchemeName of the table huSchool

Name	huBldgSchemeName
Code	huBldgSchemeName
Data Type	varchar(20)
Mandatory	FALSE

Standard check of column huBldgSchemeName of table huSchool

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column huBldgSchemeName of table huSchool

CKC_HUBLDGSCHEMENAME_HUSCHOOL

Column sbtName of table huSchool

Card of the column sbtName of the table huSchool

Name	sbtName
Code	sbtName
Data Type	varchar(10)
Mandatory	FALSE

Standard check of column sbtName of table huSchool

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column sbtName of table huSchool

CKC_SBTNAME_HUSCHOOL

Key list of the table huSchool

Name	Code
idtKey	idtKey

Key idtKey of table huSchool

Card of the key idtKey of the table huSchool

Name	idtKey
Code	idtKey
Table	huSchool

Column list of the key idtKey

Name	Code
SchoolId	SchoolId

Code preview of idtKey

```
alter table huSchool
   drop constraint PK_HUSCHOOL
go
```

Index list of the table huSchool

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
RLNSCHOOL_HU_FK	RLNSCHOOL_HU_FK	FALSE	FALSE	FALSE	TRUE	FALSE
RLNHUSBT_SCH_FK	RLNHUSBT_SCH_FK	FALSE	FALSE	FALSE	TRUE	FALSE
RLNHUBML_HUSCH_FK	RLNHUBML_HUSCH_FK	FALSE	FALSE	FALSE	TRUE	FALSE

Index RLNSCHOOL_HU_FK of table huSchool

Card of the index RLNSCHOOL_HU_FK of the table huSchool

Name	RLNSCHOOL_HU_FK
Code	RLNSCHOOL_HU_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE

Alternate Key	FALSE
Table	huSchool

Column list of the index RLNSCHOOL_HU_FK

Name	Code	Sort
SchoolId	SchoolId	Ascending

Code preview of RLNSCHOOL_HU_FK

The preview is empty because of the setting.
Check the generation option.

Index RLNHUSBT_SCH_FK of table huSchool

Card of the index RLNHUSBT_SCH_FK of the table huSchool

Name	RLNHUSBT_SCH_FK
Code	RLNHUSBT_SCH_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huSchool

Column list of the index RLNHUSBT_SCH_FK

Name	Code	Sort
sbtName	sbtName	Ascending

Code preview of RLNHUSBT_SCH_FK

The preview is empty because of the setting.
Check the generation option.

Index RLNHUBML_HUSCH_FK of table huSchool

Card of the index RLNHUBML_HUSCH_FK of the table huSchool

Name	RLNHUBML_HUSCH_FK
Code	RLNHUBML_HUSCH_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huSchool

Column list of the index RLNHUBML_HUSCH_FK

Name	Code	Sort
huBldgSchemeName	huBldgSchemeName	Ascending

Code preview of RLNHUBML_HUSCH_FK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huSchool

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huSchool

```
alter table huSchool
   drop constraint FK_HUSCHOOL_RLNSCHOOL_HZSCHOOL
go


alter table huSchool
   drop constraint FK_HUSCHOOL_RLNHUSBT__CLBLDGTY
go


alter table huSchool
   drop constraint FK_HUSCHOOL_RLNHUBML__HUBLDGMA
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huSchool')
            and   type = 'U')
   drop table huSchool
go


/*==============================================================*/
/* Table: huSchool                                              */
/*==============================================================*/
create table huSchool (
SchoolId            char(8)             not null,
huBldgSchemeName    varchar(20)         null,
sbtName             varchar(10)         null,
constraint PK_HUSCHOOL primary key  (SchoolId)
)
go


alter table huSchool
   add constraint FK_HUSCHOOL_RLNSCHOOL_HZSCHOOL foreign key (SchoolId)
      references hzSchool (SchoolId)
      on delete cascade on update cascade
go


alter table huSchool
   add constraint FK_HUSCHOOL_RLNHUSBT__CLBLDGTY foreign key (sbtName)
      references clBldgTypeHu (sbtName)
go


alter table huSchool
   add constraint FK_HUSCHOOL_RLNHUBML__HUBLDGMA foreign key (huBldgSchemeName)
      references huBldgMappingList (huBldgSchemeName)
      on delete cascade on update cascade
go
```

Table huSummaryDamage

Card of the table huSummaryDamage

Name	huSummaryDamage
Code	huSummaryDamage
DBMS	Microsoft SQL Server 2000

Constraint name of table huSummaryDamage

CKT_HUSUMMARYDAMAGE

Column list of the table huSummaryDamage

Name	Code
ComDamage	ComDamage
GenBldgOrGenOcc	GenBldgOrGenOcc
MinDamage	MinDamage
ModDamage	ModDamage
NonDamage	NonDamage
ReturnPeriod	ReturnPeriod
SevDamage	SevDamage
ShelterDisp	ShelterDisp
ShelterShortTerm	ShelterShortTerm
Tract	TRACT
huScenarioName	huScenarioName

Column Tract of table huSummaryDamage

Card of the column Tract of the table huSummaryDamage

Name	Tract
Code	TRACT
Data Type	char(11)
Mandatory	TRUE

Standard check of column Tract of table huSummaryDamage

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Tract of table huSummaryDamage

CKC_TRACT_HUSUMMAR

Column GenBldgOrGenOcc of table huSummaryDamage

Card of the column GenBldgOrGenOcc of the table huSummaryDamage

Name	GenBldgOrGenOcc
Code	GenBldgOrGenOcc
Data Type	varchar(20)
Mandatory	TRUE

Standard check of column GenBldgOrGenOcc of table huSummaryDamage

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column GenBldgOrGenOcc of table huSummaryDamage

CKC_GENBLDGORGENOCC_HUSUMMAR

Column ReturnPeriod of table huSummaryDamage

Card of the column ReturnPeriod of the table huSummaryDamage

Name	ReturnPeriod
Code	ReturnPeriod
Data Type	varchar(25)
Mandatory	TRUE

Standard check of column ReturnPeriod of table huSummaryDamage

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column ReturnPeriod of table huSummaryDamage

CKC_RETURNPERIOD_HUSUMMAR

Column NonDamage of table huSummaryDamage

Card of the column NonDamage of the table huSummaryDamage

Name	NonDamage
Code	NonDamage
Data Type	real
Mandatory	FALSE

Standard check of column NonDamage of table huSummaryDamage

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column NonDamage of table huSummaryDamage

CKC_NONDAMAGE_HUSUMMAR

Column MinDamage of table huSummaryDamage

Card of the column MinDamage of the table huSummaryDamage

Name	MinDamage
Code	MinDamage
Data Type	real
Mandatory	FALSE

Standard check of column MinDamage of table huSummaryDamage

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MinDamage of table huSummaryDamage

CKC_MINDAMAGE_HUSUMMAR

Column ModDamage of table huSummaryDamage

Card of the column ModDamage of the table huSummaryDamage

Name	ModDamage
Code	ModDamage
Data Type	real
Mandatory	FALSE

Standard check of column ModDamage of table huSummaryDamage

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column ModDamage of table huSummaryDamage

CKC_MODDAMAGE_HUSUMMAR

Column SevDamage of table huSummaryDamage

Card of the column SevDamage of the table huSummaryDamage

Name	SevDamage
Code	SevDamage
Data Type	real
Mandatory	FALSE

Standard check of column SevDamage of table huSummaryDamage

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SevDamage of table huSummaryDamage

CKC_SEVDAMAGE_HUSUMMAR

Column ComDamage of table huSummaryDamage

Card of the column ComDamage of the table huSummaryDamage

Name	ComDamage
Code	ComDamage
Data Type	real
Mandatory	FALSE

Standard check of column ComDamage of table huSummaryDamage

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column ComDamage of table huSummaryDamage

CKC_COMDAMAGE_HUSUMMAR

Column ShelterDisp of table huSummaryDamage

Card of the column ShelterDisp of the table huSummaryDamage

Name	ShelterDisp
Code	ShelterDisp
Data Type	real
Mandatory	FALSE

Standard check of column ShelterDisp of table huSummaryDamage

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column ShelterDisp of table huSummaryDamage

CKC_SHELTERDISP_HUSUMMAR

Column ShelterShortTerm of table huSummaryDamage

Card of the column ShelterShortTerm of the table huSummaryDamage

Name	ShelterShortTerm
Code	ShelterShortTerm
Data Type	real
Mandatory	FALSE

Standard check of column ShelterShortTerm of table huSummaryDamage

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column ShelterShortTerm of table huSummaryDamage

CKC_SHELTERSHORTTERM_HUSUMMAR

Column huScenarioName of table huSummaryDamage

Card of the column huScenarioName of the table huSummaryDamage

Name	huScenarioName
Code	huScenarioName
Data Type	varchar(40)
Mandatory	FALSE

Standard check of column huScenarioName of table huSummaryDamage

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column huScenarioName of table huSummaryDamage

CKC_HUSCENARIONAME_HUSUMMAR

Key list of the table huSummaryDamage

Name	Code
AK_huSumDam	AK_huSumDam
Key_2	Key_2

Key AK_huSumDam of table huSummaryDamage

Card of the key AK_huSumDam of the table huSummaryDamage

Name	AK_huSumDam
Code	AK_huSumDam
Table	huSummaryDamage

Column list of the key AK_huSumDam

Name	Code
ReturnPeriod	ReturnPeriod
GenBldgOrGenOcc	GenBldgOrGenOcc

Tract	TRACT

Code preview of AK_huSumDam

```
alter table huSummaryDamage
  drop constraint AK_AK_HUSUMDAM_HUSUMMAR
go
```

Key Key_2 of table huSummaryDamage

Card of the key Key_2 of the table huSummaryDamage

Name	Key_2
Code	Key_2
Table	huSummaryDamage

Column list of the key Key_2

Name	Code
Tract	TRACT
GenBldgOrGenOcc	GenBldgOrGenOcc
ReturnPeriod	ReturnPeriod

Code preview of Key_2

```
alter table huSummaryDamage
  drop constraint PK_HUSUMMARYDAMAGE
go
```

Index list of the table huSummaryDamage

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
RLNTRACT_SUMLOSS_FK	RLNTRACT_SUMLOSS_FK	FALSE	FALSE	FALSE	TRUE	FALSE

Index RLNTRACT_SUMLOSS_FK of table huSummaryDamage

Card of the index RLNTRACT_SUMLOSS_FK of the table huSummaryDamage

Name	RLNTRACT_SUMLOSS_FK
Code	RLNTRACT_SUMLOSS_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huSummaryDamage

Column list of the index RLNTRACT_SUMLOSS_FK

Name	Code	Sort
Tract	TRACT	Ascending

Code preview of RLNTRACT_SUMLOSS_FK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huSummaryDamage

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huSummaryDamage

```
alter table huSummaryDamage
   drop constraint FK_HUSUMMAR_RLNTRACT__HZTRACT2
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huSummaryDamage')
            and   type = 'U')
   drop table huSummaryDamage
go


/*==============================================================*/
/* Table: huSummaryDamage                                       */
/*==============================================================*/
create table huSummaryDamage (
TRACT                char(11)            not null,
GenBldgOrGenOcc      varchar(20)         not null,
ReturnPeriod         varchar(25)         not null,
NonDamage            real                null default 0,
MinDamage            real                null default 0,
ModDamage            real                null default 0,
SevDamage            real                null default 0,
ComDamage            real                null default 0,
ShelterDisp          real                null default 0,
ShelterShortTerm     real                null default 0,
huScenarioName       varchar(40)         null,
constraint PK_HUSUMMARYDAMAGE primary key  (TRACT, GenBldgOrGenOcc, ReturnPeriod),
constraint AK_AK_HUSUMDAM_HUSUMMAR unique (ReturnPeriod, GenBldgOrGenOcc, TRACT)
)
go


alter table huSummaryDamage
   add constraint FK_HUSUMMAR_RLNTRACT__HZTRACT2 foreign key (TRACT)
      references hzTract (Tract)
      on delete cascade on update cascade
go
```

Table huSummaryLoss

Card of the table huSummaryLoss

Name	huSummaryLoss
Code	huSummaryLoss
DBMS	Microsoft SQL Server 2000

Constraint name of table huSummaryLoss

CKT_HUSUMMARYLOSS

Column list of the table huSummaryLoss

Name	Code
BuiLoss	BuiLoss
ConLoss	ConLoss
GenBldgOrGenOcc	GenBldgOrGenOcc
IncLoss	IncLoss
InvLoss	InvLoss
RelLoss	RelLoss
RenLoss	RenLoss
ReturnPeriod	ReturnPeriod
TotLoss	TotLoss
Tract	TRACT
WagLoss	WagLoss
huScenarioName	huScenarioName

Column Tract of table huSummaryLoss

Card of the column Tract of the table huSummaryLoss

Name	Tract
Code	TRACT
Data Type	char(11)
Mandatory	TRUE

Standard check of column Tract of table huSummaryLoss

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Tract of table huSummaryLoss

CKC_TRACT_HUSUMMAR

Column GenBldgOrGenOcc of table huSummaryLoss

Card of the column GenBldgOrGenOcc of the table huSummaryLoss

Name	GenBldgOrGenOcc
Code	GenBldgOrGenOcc
Data Type	varchar(20)
Mandatory	TRUE

Standard check of column GenBldgOrGenOcc of table huSummaryLoss

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column GenBldgOrGenOcc of table huSummaryLoss

CKC_GENBLDGORGENOCC_HUSUMMAR

Column ReturnPeriod of table huSummaryLoss

Card of the column ReturnPeriod of the table huSummaryLoss

Name	ReturnPeriod
Code	ReturnPeriod
Data Type	varchar(25)
Mandatory	TRUE

Standard check of column ReturnPeriod of table huSummaryLoss

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column ReturnPeriod of table huSummaryLoss

CKC_RETURNPERIOD_HUSUMMAR

Column TotLoss of table huSummaryLoss

Card of the column TotLoss of the table huSummaryLoss

Name	TotLoss
Code	TotLoss
Data Type	real
Mandatory	FALSE

Standard check of column TotLoss of table huSummaryLoss

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column TotLoss of table huSummaryLoss

CKC_TOTLOSS_HUSUMMAR

Column BuiLoss of table huSummaryLoss

Card of the column BuiLoss of the table huSummaryLoss

Name	BuiLoss
Code	BuiLoss
Data Type	real
Mandatory	FALSE

Standard check of column BuiLoss of table huSummaryLoss

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column BuiLoss of table huSummaryLoss

CKC_BUILOSS_HUSUMMAR

Column ConLoss of table huSummaryLoss

Card of the column ConLoss of the table huSummaryLoss

Name	ConLoss
Code	ConLoss
Data Type	real
Mandatory	FALSE

Standard check of column ConLoss of table huSummaryLoss

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column ConLoss of table huSummaryLoss

CKC_CONLOSS_HUSUMMAR

Column InvLoss of table huSummaryLoss

Card of the column InvLoss of the table huSummaryLoss

Name	InvLoss
Code	InvLoss
Data Type	real
Mandatory	FALSE

Standard check of column InvLoss of table huSummaryLoss

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column InvLoss of table huSummaryLoss

CKC_INVLOSS_HUSUMMAR

Column RelLoss of table huSummaryLoss

Card of the column RelLoss of the table huSummaryLoss

Name	RelLoss
Code	RelLoss
Data Type	real
Mandatory	FALSE

Standard check of column RelLoss of table huSummaryLoss

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column RelLoss of table huSummaryLoss

CKC_RELLOSS_HUSUMMAR

Column IncLoss of table huSummaryLoss

Card of the column IncLoss of the table huSummaryLoss

Name	IncLoss
Code	IncLoss
Data Type	real
Mandatory	FALSE

Standard check of column IncLoss of table huSummaryLoss

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column IncLoss of table huSummaryLoss

CKC_INCLOSS_HUSUMMAR

Column RenLoss of table huSummaryLoss

Card of the column RenLoss of the table huSummaryLoss

Name	RenLoss
Code	RenLoss
Data Type	real
Mandatory	FALSE

Standard check of column RenLoss of table huSummaryLoss

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column RenLoss of table huSummaryLoss

CKC_RENLOSS_HUSUMMAR

Column WagLoss of table huSummaryLoss

Card of the column WagLoss of the table huSummaryLoss

Name	WagLoss
Code	WagLoss
Data Type	real
Mandatory	FALSE

Standard check of column WagLoss of table huSummaryLoss

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WagLoss of table huSummaryLoss

CKC_WAGLOSS_HUSUMMAR

Column huScenarioName of table huSummaryLoss

Card of the column huScenarioName of the table huSummaryLoss

Name	huScenarioName
Code	huScenarioName
Data Type	varchar(40)
Mandatory	FALSE

Standard check of column huScenarioName of table huSummaryLoss

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column huScenarioName of table huSummaryLoss

CKC_HUSCENARIONAME_HUSUMMAR

Key list of the table huSummaryLoss

Name	Code
AK_huSumLoss	AK_huSumLoss
Key_2	Key_2

Key AK_huSumLoss of table huSummaryLoss

Card of the key AK_huSumLoss of the table huSummaryLoss

Name	AK_huSumLoss
Code	AK_huSumLoss
Table	huSummaryLoss

Column list of the key AK_huSumLoss

Name	Code
ReturnPeriod	ReturnPeriod
GenBldgOrGenOcc	GenBldgOrGenOcc
Tract	TRACT

Code preview of AK_huSumLoss

```
alter table huSummaryLoss
   drop constraint AK_AK_HUSUMLOSS_HUSUMMAR
go
```

Key Key_2 of table huSummaryLoss

Card of the key Key_2 of the table huSummaryLoss

Name	Key_2
Code	Key_2
Table	huSummaryLoss

Column list of the key Key_2

Name	Code
Tract	TRACT
GenBldgOrGenOcc	GenBldgOrGenOcc
ReturnPeriod	ReturnPeriod

Code preview of Key_2

```
alter table huSummaryLoss
   drop constraint PK_HUSUMMARYLOSS
go
```

Index list of the table huSummaryLoss

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
RLNTRACT_SUMDAM_FK	RLNTRACT_SUMDAM_FK	FALSE	FALSE	FALSE	TRUE	FALSE

Index RLNTRACT_SUMDAM_FK of table huSummaryLoss

Card of the index RLNTRACT_SUMDAM_FK of the table huSummaryLoss

Name	RLNTRACT_SUMDAM_FK
Code	RLNTRACT_SUMDAM_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huSummaryLoss

Column list of the index RLNTRACT_SUMDAM_FK

Name	Code	Sort
Tract	TRACT	Ascending

Code preview of RLNTRACT_SUMDAM_FK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huSummaryLoss

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huSummaryLoss

```
alter table huSummaryLoss
   drop constraint FK_HUSUMMAR_RLNTRACT__HZTRACT
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huSummaryLoss')
            and   type = 'U')
   drop table huSummaryLoss
go


/*==============================================================*/
/* Table: huSummaryLoss                                         */
```

```
/*==============================================================*/
create table huSummaryLoss (
TRACT              char(11)           not null,
GenBldgOrGenOcc      varchar(20)         not null,
ReturnPeriod         varchar(25)         not null,
TotLoss              real               null default 0,
BuiLoss              real               null default 0,
ConLoss              real               null default 0,
InvLoss              real               null default 0,
RelLoss              real               null default 0,
IncLoss              real               null default 0,
RenLoss              real               null default 0,
WagLoss              real               null default 0,
huScenarioName       varchar(40)         null,
constraint PK_HUSUMMARYLOSS primary key  (TRACT, GenBldgOrGenOcc, ReturnPeriod),
constraint AK_AK_HUSUMLOSS_HUSUMMAR unique (ReturnPeriod, GenBldgOrGenOcc, TRACT)
)
go


alter table huSummaryLoss
  add constraint FK_HUSUMMAR_RLNTRACT__HZTRACT foreign key (TRACT)
    references hzTract (Tract)
    on delete cascade on update cascade
go
```

Table huSummaryLossB

Card of the table huSummaryLossB

Name	huSummaryLossB
Code	huSummaryLossB
DBMS	Microsoft SQL Server 2000

Constraint name of table huSummaryLossB

CKT_HUSUMMARYLOSSB

Column list of the table huSummaryLossB

Name	Code
BuiLoss	BuiLoss
CensusBlock	CensusBlock
ConLoss	ConLoss
GenBldgOrGenOcc	GenBldgOrGenOcc
IncLoss	IncLoss
InvLoss	InvLoss
RelLoss	RelLoss
RenLoss	RenLoss
ReturnPeriod	ReturnPeriod
TotLoss	TotLoss
WagLoss	WagLoss
huScenarioName	huScenarioName

Column CensusBlock of table huSummaryLossB

Card of the column CensusBlock of the table huSummaryLossB

Name	CensusBlock
Code	CensusBlock
Data Type	char(15)
Mandatory	TRUE

Standard check of column CensusBlock of table huSummaryLossB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CensusBlock of table huSummaryLossB

CKC_CENSUSBLOCK_HUSUMMAR

Column GenBldgOrGenOcc of table huSummaryLossB

Card of the column GenBldgOrGenOcc of the table huSummaryLossB

Name	GenBldgOrGenOcc
Code	GenBldgOrGenOcc
Data Type	varchar(20)
Mandatory	TRUE

Standard check of column GenBldgOrGenOcc of table huSummaryLossB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column GenBldgOrGenOcc of table huSummaryLossB

CKC_GENBLDGORGENOCC_HUSUMMAR

Column ReturnPeriod of table huSummaryLossB

Card of the column ReturnPeriod of the table huSummaryLossB

Name	ReturnPeriod
Code	ReturnPeriod
Data Type	varchar(25)
Mandatory	TRUE

Standard check of column ReturnPeriod of table huSummaryLossB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column ReturnPeriod of table huSummaryLossB

CKC_RETURNPERIOD_HUSUMMAR

Column TotLoss of table huSummaryLossB

Card of the column TotLoss of the table huSummaryLossB

Name	TotLoss
Code	TotLoss
Data Type	real
Mandatory	FALSE

Standard check of column TotLoss of table huSummaryLossB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column TotLoss of table huSummaryLossB

CKC_TOTLOSS_HUSUMMAR

Column BuiLoss of table huSummaryLossB

Card of the column BuiLoss of the table huSummaryLossB

Name	BuiLoss
Code	BuiLoss
Data Type	real
Mandatory	FALSE

Standard check of column BuiLoss of table huSummaryLossB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column BuiLoss of table huSummaryLossB

CKC_BUILOSS_HUSUMMAR

Column ConLoss of table huSummaryLossB

Card of the column ConLoss of the table huSummaryLossB

Name	ConLoss
Code	ConLoss
Data Type	real
Mandatory	FALSE

Standard check of column ConLoss of table huSummaryLossB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column ConLoss of table huSummaryLossB

CKC_CONLOSS_HUSUMMAR

Column InvLoss of table huSummaryLossB

Card of the column InvLoss of the table huSummaryLossB

Name	InvLoss
Code	InvLoss
Data Type	real
Mandatory	FALSE

Standard check of column InvLoss of table huSummaryLossB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column InvLoss of table huSummaryLossB

CKC_INVLOSS_HUSUMMAR

Column RelLoss of table huSummaryLossB

Card of the column RelLoss of the table huSummaryLossB

Name	RelLoss
Code	RelLoss
Data Type	real
Mandatory	FALSE

Standard check of column RelLoss of table huSummaryLossB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column RelLoss of table huSummaryLossB

CKC_RELLOSS_HUSUMMAR

Column IncLoss of table huSummaryLossB

Card of the column IncLoss of the table huSummaryLossB

Name	IncLoss
Code	IncLoss
Data Type	real
Mandatory	FALSE

Standard check of column IncLoss of table huSummaryLossB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column IncLoss of table huSummaryLossB

CKC_INCLOSS_HUSUMMAR

Column RenLoss of table huSummaryLossB

Card of the column RenLoss of the table huSummaryLossB

Name	RenLoss
Code	RenLoss
Data Type	real
Mandatory	FALSE

Standard check of column RenLoss of table huSummaryLossB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column RenLoss of table huSummaryLossB

CKC_RENLOSS_HUSUMMAR

Column WagLoss of table huSummaryLossB

Card of the column WagLoss of the table huSummaryLossB

Name	WagLoss
Code	WagLoss
Data Type	real
Mandatory	FALSE

Standard check of column WagLoss of table huSummaryLossB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WagLoss of table huSummaryLossB

CKC_WAGLOSS_HUSUMMAR

Column huScenarioName of table huSummaryLossB

Card of the column huScenarioName of the table huSummaryLossB

Name	huScenarioName
Code	huScenarioName
Data Type	varchar(40)
Mandatory	FALSE

Standard check of column huScenarioName of table huSummaryLossB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column huScenarioName of table huSummaryLossB

CKC_HUSCENARIONAME_HUSUMMAR

Key list of the table huSummaryLossB

Name	Code
AK_huSumLossB	AK_huSumLossB
Key_2	Key_2

Key AK_huSumLossB of table huSummaryLossB

Card of the key AK_huSumLossB of the table huSummaryLossB

Name	AK_huSumLossB
Code	AK_huSumLossB
Table	huSummaryLossB

Column list of the key AK_huSumLossB

Name	Code
ReturnPeriod	ReturnPeriod

GenBldgOrGenOcc	GenBldgOrGenOcc
CensusBlock	CensusBlock

Code preview of AK_huSumLossB

```
alter table huSummaryLossB
  drop constraint AK_AK_HUSUMLOSSB_HUSUMMAR
go
```

Key Key_2 of table huSummaryLossB

Card of the key Key_2 of the table huSummaryLossB

Name	Key_2
Code	Key_2
Table	huSummaryLossB

Column list of the key Key_2

Name	Code
CensusBlock	CensusBlock
GenBldgOrGenOcc	GenBldgOrGenOcc
ReturnPeriod	ReturnPeriod

Code preview of Key_2

```
alter table huSummaryLossB
  drop constraint PK_HUSUMMARYLOSSB
go
```

Index list of the table huSummaryLossB

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
RLNBLOCK_SUMDAM_FK	RLNBLOCK_SUMDAM_FK	FALSE	FALSE	FALSE	TRUE	FALSE

Index RLNBLOCK_SUMDAM_FK of table huSummaryLossB

Card of the index RLNBLOCK_SUMDAM_FK of the table huSummaryLossB

Name	RLNBLOCK_SUMDAM_FK
Code	RLNBLOCK_SUMDAM_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huSummaryLossB

Column list of the index RLNBLOCK_SUMDAM_FK

Name	Code	Sort
CensusBlock	CensusBlock	Ascending

Code preview of RLNBLOCK_SUMDAM_FK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huSummaryLossB

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huSummaryLossB

```
alter table huSummaryLossB
   drop constraint FK_HUSUMMAR_RLNBLOCK__HZCENSUS2
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huSummaryLossB')
            and   type = 'U')
   drop table huSummaryLossB
go


/*==============================================================*/
/* Table: huSummaryLossB                                        */
/*==============================================================*/
create table huSummaryLossB (
CensusBlock          char(15)            not null,
GenBldgOrGenOcc      varchar(20)         not null,
ReturnPeriod         varchar(25)         not null,
TotLoss              real                null default 0,
BuiLoss              real                null default 0,
ConLoss              real                null default 0,
InvLoss              real                null default 0,
RelLoss              real                null default 0,
IncLoss              real                null default 0,
RenLoss              real                null default 0,
WagLoss              real                null default 0,
huScenarioName       varchar(40)         null,
constraint PK_HUSUMMARYLOSSB primary key  (CensusBlock, GenBldgOrGenOcc, ReturnPeriod),
constraint AK_AK_HUSUMLOSSB_HUSUMMAR unique (ReturnPeriod, GenBldgOrGenOcc, CensusBlock)
)
go


alter table huSummaryLossB
   add constraint FK_HUSUMMAR_RLNBLOCK__HZCENSUS2 foreign key (CensusBlock)
      references hzCensusBlock (CensusBlock)
      on delete cascade on update cascade
go
```

Table huTract

Card of the table huTract

Name	huTract
Code	huTract
DBMS	Microsoft SQL Server 2000

Constraint name of table huTract

CKT_HUTRACT

Column list of the table huTract

Name	Code
DistToCoast	DistToCoast
SurfaceRoughness	SURFACEROUGHNESS
Tract	TRACT
WindGridIndex	WindGridIndex
huBldgSchemeName	huBldgSchemeName
huOccMapSchemeName	huOccMapSchemeName

Column Tract of table huTract

Card of the column Tract of the table huTract

Name	Tract
Code	TRACT
Data Type	char(11)
Mandatory	TRUE

Standard check of column Tract of table huTract

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Tract of table huTract

CKC_TRACT_HUTRACT

Column huBldgSchemeName of table huTract

Card of the column huBldgSchemeName of the table huTract

Name	huBldgSchemeName
Code	huBldgSchemeName
Data Type	varchar(20)
Mandatory	TRUE

Standard check of column huBldgSchemeName of table huTract

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column huBldgSchemeName of table huTract

CKC_HUBLDGSCHEMENAME_HUTRACT

Column huOccMapSchemeName of table huTract

Card of the column huOccMapSchemeName of the table huTract

Name	huOccMapSchemeName
Code	huOccMapSchemeName
Data Type	varchar(20)
Mandatory	TRUE

Standard check of column huOccMapSchemeName of table huTract

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column huOccMapSchemeName of table huTract

CKC_HUOCCMAPSCHEMENAM_HUTRACT

Column DistToCoast of table huTract

Card of the column DistToCoast of the table huTract

Name	DistToCoast
Code	DistToCoast
Data Type	real
Mandatory	FALSE

Standard check of column DistToCoast of table huTract

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column DistToCoast of table huTract

CKC_DISTTOCOAST_HUTRACT

Column SurfaceRoughness of table huTract

Card of the column SurfaceRoughness of the table huTract

Name	SurfaceRoughness
Code	SURFACEROUGHNESS
Data Type	real
Mandatory	FALSE

Standard check of column SurfaceRoughness of table huTract

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SurfaceRoughness of table huTract

CKC_SURFACEROUGHNESS_HUTRACT

Column WindGridIndex of table huTract

Card of the column WindGridIndex of the table huTract

Name	WindGridIndex
Code	WindGridIndex
Data Type	smallint
Mandatory	FALSE

Standard check of column WindGridIndex of table huTract

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WindGridIndex of table huTract

CKC_WINDGRIDINDEX_HUTRACT

Key list of the table huTract

Name	Code
idtKey	idtKey

Key idtKey of table huTract

Card of the key idtKey of the table huTract

Name	idtKey
Code	idtKey
Table	huTract

Column list of the key idtKey

Name	Code
Tract	TRACT

Code preview of idtKey

```
alter table huTract
   drop constraint PK_HUTRACT
go
```

Index list of the table huTract

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
RLNTRACT_HU_FK	RLNTRACT_HU_FK	FALSE	FALSE	FALSE	TRUE	FALSE
idthuBldgMappingList	idthuBldgMappingList	FALSE	FALSE	FALSE	TRUE	FALSE
idthuOccMappingList	idthuOccMappingList	FALSE	FALSE	FALSE	TRUE	FALSE
Index_4	Index_4	FALSE	FALSE	FALSE	FALSE	FALSE

Index RLNTRACT_HU_FK of table huTract

Card of the index RLNTRACT_HU_FK of the table huTract

Name	RLNTRACT_HU_FK
Code	RLNTRACT_HU_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huTract

Column list of the index RLNTRACT_HU_FK

Name	Code	Sort
Tract	TRACT	Ascending

Code preview of RLNTRACT_HU_FK

The preview is empty because of the setting.
Check the generation option.

Index idthuBldgMappingList of table huTract

Card of the index idthuBldgMappingList of the table huTract

Name	idthuBldgMappingList
Code	idthuBldgMappingList
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huTract

Column list of the index idthuBldgMappingList

Name	Code	Sort
huBldgSchemeName	huBldgSchemeName	Ascending

Code preview of idthuBldgMappingList

The preview is empty because of the setting.
Check the generation option.

Index idthuOccMappingList of table huTract

Card of the index idthuOccMappingList of the table huTract

Name	idthuOccMappingList
Code	idthuOccMappingList
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huTract

Column list of the index idthuOccMappingList

Name	Code	Sort

huOccMapSchemeName	huOccMapSchemeName	Ascending

Code preview of idthuOccMappingList

The preview is empty because of the setting.
Check the generation option.

Index Index_4 of table huTract

Card of the index Index_4 of the table huTract

Name	Index_4
Code	Index_4
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	FALSE
Alternate Key	FALSE
Table	huTract

Code preview of Index_4

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huTract

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram
Main CDM Diagram	Main CDM Diagram
Main CDM Diagram	Main CDM Diagram

Code preview of huTract

```
alter table huTract
   drop constraint FK_HUTRACT_RLNTRACT__HZTRACT
go


alter table huTract
   drop constraint FK_HUTRACT_RLNHUTRAC_HUBLDGMA
go


alter table huTract
   drop constraint FK_HUTRACT_RLNTRACT__HUGBSOCC
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huTract')
            and   type = 'U')
   drop table huTract
go


/*==============================================================*/
/* Table: huTract                                               */
/*==============================================================*/
```

```
create table huTract (
TRACT              char(11)          not null,
huBldgSchemeName     varchar(20)         not null,
huOccMapSchemeName   varchar(20)         not null,
DistToCoast         real               null,
SURFACEROUGHNESS     real               null,
WindGridIndex        smallint           null,
constraint PK_HUTRACT primary key  (TRACT)
)
go


alter table huTract
  add constraint FK_HUTRACT_RLNTRACT__HZTRACT foreign key (TRACT)
    references hzTract (Tract)
    on delete cascade on update cascade
go


alter table huTract
  add constraint FK_HUTRACT_RLNHUTRAC_HUBLDGMA foreign key (huBldgSchemeName)
    references huBldgMappingList (huBldgSchemeName)
    on delete cascade on update cascade
go


alter table huTract
  add constraint FK_HUTRACT_RLNTRACT__HUGBSOCC foreign key (huOccMapSchemeName)
    references huGbsOccMappingList (huOccMapSchemeName)
    on delete cascade on update cascade
go
```

Table huBldgCountBldgTypeT

Card of the table huBldgCountBldgTypeT

Name	huBldgCountBldgTypeT
Code	huBldgCountBldgTypeT
DBMS	Microsoft SQL Server 2000

Constraint name of table huBldgCountBldgTypeT

CKT_HUBLDGCOUNTBLDGTYPET

Column list of the table huBldgCountBldgTypeT

Name	Code
CECBHi	CECBHi
CECBLi	CECBLi
CECBMi	CECBMi
CERBHi	CERBHi
CERBLi	CERBLi
CERBMi	CERBMi
MECBHi	MECBHi
MECBLi	MECBLi
MECBMi	MECBMi
MERBHi	MERBHi
MERBLi	MERBLi
MERBMi	MERBMi
MH76HUDi	MH76HUDi

MH94HUDIIIi	MH94HUDIIIi
MH94HUDIIi	MH94HUDIIi
MH94HUDIi	MH94HUDIi
MHPHUDi	MHPHUDi
MLRIi	MLRIi
MLRM1i	MLRM1i
MLRM2i	MLRM2i
MMUH1i	MMUH1i
MMUH2i	MMUH2i
MMUH3i	MMUH3i
MSF1i	MSF1i
MSF2i	MSF2i
SECBHi	SECBHi
SECBLi	SECBLi
SECBMi	SECBMi
SERBHi	SERBHi
SERBLi	SERBLi
SERBMi	SERBMi
SPMBLi	SPMBLi
SPMBMi	SPMBMi
SPMBSi	SPMBSi
Tract	Tract
WMUH1i	WMUH1i
WMUH2i	WMUH2i
WMUH3i	WMUH3i
WSF1i	WSF1i
WSF2i	WSF2i

Column Tract of table huBldgCountBldgTypeT

Card of the column Tract of the table huBldgCountBldgTypeT

Name	Tract
Code	Tract
Data Type	char(11)
Mandatory	TRUE

Standard check of column Tract of table huBldgCountBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Tract of table huBldgCountBldgTypeT

CKC_TRACT_HUBLDGCO

Column WSF1i of table huBldgCountBldgTypeT

Card of the column WSF1i of the table huBldgCountBldgTypeT

Name	WSF1i
Code	WSF1i
Data Type	int
Mandatory	FALSE

Standard check of column WSF1i of table huBldgCountBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WSF1i of table huBldgCountBldgTypeT

CKC_WSF1I_HUBLDGCO

Column WSF2i of table huBldgCountBldgTypeT

Card of the column WSF2i of the table huBldgCountBldgTypeT

Name	WSF2i
Code	WSF2i
Data Type	int
Mandatory	FALSE

Standard check of column WSF2i of table huBldgCountBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WSF2i of table huBldgCountBldgTypeT

CKC_WSF2I_HUBLDGCO

Column WMUH1i of table huBldgCountBldgTypeT

Card of the column WMUH1i of the table huBldgCountBldgTypeT

Name	WMUH1i
Code	WMUH1i
Data Type	int
Mandatory	FALSE

Standard check of column WMUH1i of table huBldgCountBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WMUH1i of table huBldgCountBldgTypeT

CKC_WMUH1I_HUBLDGCO

Column WMUH2i of table huBldgCountBldgTypeT

Card of the column WMUH2i of the table huBldgCountBldgTypeT

Name	WMUH2i
Code	WMUH2i
Data Type	int
Mandatory	FALSE

Standard check of column WMUH2i of table huBldgCountBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WMUH2i of table huBldgCountBldgTypeT

CKC_WMUH2I_HUBLDGCO

Column WMUH3i of table huBldgCountBldgTypeT

Card of the column WMUH3i of the table huBldgCountBldgTypeT

Name	WMUH3i
Code	WMUH3i
Data Type	int
Mandatory	FALSE

Standard check of column WMUH3i of table huBldgCountBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WMUH3i of table huBldgCountBldgTypeT

CKC_WMUH3I_HUBLDGCO

Column MSF1i of table huBldgCountBldgTypeT

Card of the column MSF1i of the table huBldgCountBldgTypeT

Name	MSF1i
Code	MSF1i
Data Type	int
Mandatory	FALSE

Standard check of column MSF1i of table huBldgCountBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MSF1i of table huBldgCountBldgTypeT

CKC_MSF1I_HUBLDGCO

Column MSF2i of table huBldgCountBldgTypeT

Card of the column MSF2i of the table huBldgCountBldgTypeT

Name	MSF2i
Code	MSF2i
Data Type	int
Mandatory	FALSE

Standard check of column MSF2i of table huBldgCountBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MSF2i of table huBldgCountBldgTypeT

CKC_MSF2I_HUBLDGCO

Column MMUH1i of table huBldgCountBldgTypeT

Card of the column MMUH1i of the table huBldgCountBldgTypeT

Name	MMUH1i
Code	MMUH1i
Data Type	int
Mandatory	FALSE

Standard check of column MMUH1i of table huBldgCountBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MMUH1i of table huBldgCountBldgTypeT

CKC_MMUH1I_HUBLDGCO

Column MMUH2i of table huBldgCountBldgTypeT

Card of the column MMUH2i of the table huBldgCountBldgTypeT

Name	MMUH2i
Code	MMUH2i
Data Type	int
Mandatory	FALSE

Standard check of column MMUH2i of table huBldgCountBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MMUH2i of table huBldgCountBldgTypeT

CKC_MMUH2I_HUBLDGCO

Column MMUH3i of table huBldgCountBldgTypeT

Card of the column MMUH3i of the table huBldgCountBldgTypeT

Name	MMUH3i
Code	MMUH3i
Data Type	int
Mandatory	FALSE

Standard check of column MMUH3i of table huBldgCountBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MMUH3i of table huBldgCountBldgTypeT

CKC_MMUH3I_HUBLDGCO

Column MLRM1i of table huBldgCountBldgTypeT

Card of the column MLRM1i of the table huBldgCountBldgTypeT

Name	MLRM1i
Code	MLRM1i
Data Type	int
Mandatory	FALSE

Standard check of column MLRM1i of table huBldgCountBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MLRM1i of table huBldgCountBldgTypeT

CKC_MLRM1I_HUBLDGCO

Column MLRM2i of table huBldgCountBldgTypeT

Card of the column MLRM2i of the table huBldgCountBldgTypeT

Name	MLRM2i
Code	MLRM2i
Data Type	int
Mandatory	FALSE

Standard check of column MLRM2i of table huBldgCountBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MLRM2i of table huBldgCountBldgTypeT

CKC_MLRM2I_HUBLDGCO

Column MLRIi of table huBldgCountBldgTypeT

Card of the column MLRIi of the table huBldgCountBldgTypeT

Name	MLRIi
Code	MLRIi
Data Type	int
Mandatory	FALSE

Standard check of column MLRIi of table huBldgCountBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MLRIi of table huBldgCountBldgTypeT

CKC_MLRII_HUBLDGCO

Column MERBLi of table huBldgCountBldgTypeT

Card of the column MERBLi of the table huBldgCountBldgTypeT

Name	MERBLi
Code	MERBLi
Data Type	int
Mandatory	FALSE

Standard check of column MERBLi of table huBldgCountBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MERBLi of table huBldgCountBldgTypeT

CKC_MERBLI_HUBLDGCO

Column MERBMi of table huBldgCountBldgTypeT

Card of the column MERBMi of the table huBldgCountBldgTypeT

Name	MERBMi
Code	MERBMi
Data Type	int
Mandatory	FALSE

Standard check of column MERBMi of table huBldgCountBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MERBMi of table huBldgCountBldgTypeT

CKC_MERBMI_HUBLDGCO

Column MERBHi of table huBldgCountBldgTypeT

Card of the column MERBHi of the table huBldgCountBldgTypeT

Name	MERBHi
Code	MERBHi
Data Type	int
Mandatory	FALSE

Standard check of column MERBHi of table huBldgCountBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MERBHi of table huBldgCountBldgTypeT

CKC_MERBHI_HUBLDGCO

Column MECBLi of table huBldgCountBldgTypeT

Card of the column MECBLi of the table huBldgCountBldgTypeT

Name	MECBLi
Code	MECBLi
Data Type	int
Mandatory	FALSE

Standard check of column MECBLi of table huBldgCountBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MECBLi of table huBldgCountBldgTypeT

CKC_MECBLI_HUBLDGCO

Column MECBMi of table huBldgCountBldgTypeT

Card of the column MECBMi of the table huBldgCountBldgTypeT

Name	MECBMi
Code	MECBMi
Data Type	int
Mandatory	FALSE

Standard check of column MECBMi of table huBldgCountBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MECBMi of table huBldgCountBldgTypeT

CKC_MECBMI_HUBLDGCO

Column MECBHi of table huBldgCountBldgTypeT

Card of the column MECBHi of the table huBldgCountBldgTypeT

Name	MECBHi
Code	MECBHi
Data Type	int
Mandatory	FALSE

Standard check of column MECBHi of table huBldgCountBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MECBHi of table huBldgCountBldgTypeT

CKC_MECBHI_HUBLDGCO

Column CERBLi of table huBldgCountBldgTypeT

Card of the column CERBLi of the table huBldgCountBldgTypeT

Name	CERBLi
Code	CERBLi
Data Type	int
Mandatory	FALSE

Standard check of column CERBLi of table huBldgCountBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CERBLi of table huBldgCountBldgTypeT

CKC_CERBLI_HUBLDGCO

Column CERBMi of table huBldgCountBldgTypeT

Card of the column CERBMi of the table huBldgCountBldgTypeT

Name	CERBMi
Code	CERBMi
Data Type	int
Mandatory	FALSE

Standard check of column CERBMi of table huBldgCountBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CERBMi of table huBldgCountBldgTypeT

CKC_CERBMI_HUBLDGCO

Column CERBHi of table huBldgCountBldgTypeT

Card of the column CERBHi of the table huBldgCountBldgTypeT

Name	CERBHi
Code	CERBHi
Data Type	int
Mandatory	FALSE

Standard check of column CERBHi of table huBldgCountBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CERBHi of table huBldgCountBldgTypeT

CKC_CERBHI_HUBLDGCO

Column CECBLi of table huBldgCountBldgTypeT

Card of the column CECBLi of the table huBldgCountBldgTypeT

Name	CECBLi
Code	CECBLi
Data Type	int
Mandatory	FALSE

Standard check of column CECBLi of table huBldgCountBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CECBLi of table huBldgCountBldgTypeT

CKC_CECBLI_HUBLDGCO

Column CECBMi of table huBldgCountBldgTypeT

Card of the column CECBMi of the table huBldgCountBldgTypeT

Name	CECBMi
Code	CECBMi
Data Type	int
Mandatory	FALSE

Standard check of column CECBMi of table huBldgCountBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CECBMi of table huBldgCountBldgTypeT

CKC_CECBMI_HUBLDGCO

Column CECBHi of table huBldgCountBldgTypeT

Card of the column CECBHi of the table huBldgCountBldgTypeT

Name	CECBHi
Code	CECBHi
Data Type	int
Mandatory	FALSE

Standard check of column CECBHi of table huBldgCountBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CECBHi of table huBldgCountBldgTypeT

CKC_CECBHI_HUBLDGCO

Column SPMBSi of table huBldgCountBldgTypeT

Card of the column SPMBSi of the table huBldgCountBldgTypeT

Name	SPMBSi
Code	SPMBSi
Data Type	int
Mandatory	FALSE

Standard check of column SPMBSi of table huBldgCountBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SPMBSi of table huBldgCountBldgTypeT

CKC_SPMBSI_HUBLDGCO

Column SPMBMi of table huBldgCountBldgTypeT

Card of the column SPMBMi of the table huBldgCountBldgTypeT

Name	SPMBMi
Code	SPMBMi
Data Type	int
Mandatory	FALSE

Standard check of column SPMBMi of table huBldgCountBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SPMBMi of table huBldgCountBldgTypeT

CKC_SPMBMI_HUBLDGCO

Column SPMBLi of table huBldgCountBldgTypeT

Card of the column SPMBLi of the table huBldgCountBldgTypeT

Name	SPMBLi
Code	SPMBLi
Data Type	int
Mandatory	FALSE

Standard check of column SPMBLi of table huBldgCountBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SPMBLi of table huBldgCountBldgTypeT

CKC_SPMBLI_HUBLDGCO

Column SERBLi of table huBldgCountBldgTypeT

Card of the column SERBLi of the table huBldgCountBldgTypeT

Name	SERBLi
Code	SERBLi
Data Type	int
Mandatory	FALSE

Standard check of column SERBLi of table huBldgCountBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SERBLi of table huBldgCountBldgTypeT

CKC_SERBLI_HUBLDGCO

Column SERBMi of table huBldgCountBldgTypeT

Card of the column SERBMi of the table huBldgCountBldgTypeT

Name	SERBMi
Code	SERBMi
Data Type	int
Mandatory	FALSE

Standard check of column SERBMi of table huBldgCountBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SERBMi of table huBldgCountBldgTypeT

CKC_SERBMI_HUBLDGCO

Column SERBHi of table huBldgCountBldgTypeT

Card of the column SERBHi of the table huBldgCountBldgTypeT

Name	SERBHi
Code	SERBHi
Data Type	int
Mandatory	FALSE

Standard check of column SERBHi of table huBldgCountBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SERBHi of table huBldgCountBldgTypeT

CKC_SERBHI_HUBLDGCO

Column SECBLi of table huBldgCountBldgTypeT

Card of the column SECBLi of the table huBldgCountBldgTypeT

Name	SECBLi
Code	SECBLi
Data Type	int
Mandatory	FALSE

Standard check of column SECBLi of table huBldgCountBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SECBLi of table huBldgCountBldgTypeT

CKC_SECBLI_HUBLDGCO

Column SECBMi of table huBldgCountBldgTypeT

Card of the column SECBMi of the table huBldgCountBldgTypeT

Name	SECBMi
Code	SECBMi
Data Type	int
Mandatory	FALSE

Standard check of column SECBMi of table huBldgCountBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SECBMi of table huBldgCountBldgTypeT

CKC_SECBMI_HUBLDGCO

Column SECBHi of table huBldgCountBldgTypeT

Card of the column SECBHi of the table huBldgCountBldgTypeT

Name	SECBHi
Code	SECBHi
Data Type	int
Mandatory	FALSE

Standard check of column SECBHi of table huBldgCountBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SECBHi of table huBldgCountBldgTypeT

CKC_SECBHI_HUBLDGCO

Column MHPHUDi of table huBldgCountBldgTypeT

Card of the column MHPHUDi of the table huBldgCountBldgTypeT

Name	MHPHUDi
Code	MHPHUDi
Data Type	int
Mandatory	FALSE

Standard check of column MHPHUDi of table huBldgCountBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MHPHUDi of table huBldgCountBldgTypeT

CKC_MHPHUDI_HUBLDGCO

Column MH76HUDi of table huBldgCountBldgTypeT

Card of the column MH76HUDi of the table huBldgCountBldgTypeT

Name	MH76HUDi
Code	MH76HUDi
Data Type	int
Mandatory	FALSE

Standard check of column MH76HUDi of table huBldgCountBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MH76HUDi of table huBldgCountBldgTypeT

CKC_MH76HUDI_HUBLDGCO

Column MH94HUDIi of table huBldgCountBldgTypeT

Card of the column MH94HUDIi of the table huBldgCountBldgTypeT

Name	MH94HUDIi
Code	MH94HUDIi
Data Type	int
Mandatory	FALSE

Standard check of column MH94HUDIi of table huBldgCountBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MH94HUDIi of table huBldgCountBldgTypeT

CKC_MH94HUDII_HUBLDGCO

Column MH94HUDIIi of table huBldgCountBldgTypeT

Card of the column MH94HUDIIi of the table huBldgCountBldgTypeT

Name	MH94HUDIIi
Code	MH94HUDIIi
Data Type	int
Mandatory	FALSE

Standard check of column MH94HUDIIi of table huBldgCountBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MH94HUDIIi of table huBldgCountBldgTypeT

CKC_MH94HUDIII_HUBLDGCO

Column MH94HUDIIIi of table huBldgCountBldgTypeT

Card of the column MH94HUDIIIi of the table huBldgCountBldgTypeT

Name	MH94HUDIIIi
Code	MH94HUDIIIi
Data Type	int
Mandatory	FALSE

Standard check of column MH94HUDIIIi of table huBldgCountBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MH94HUDIIIi of table huBldgCountBldgTypeT

CKC_MH94HUDIIII_HUBLDGCO

Key list of the table huBldgCountBldgTypeT

Name	Code
idtKey	idtKey

Key idtKey of table huBldgCountBldgTypeT

Card of the key idtKey of the table huBldgCountBldgTypeT

Name	idtKey
Code	idtKey
Table	huBldgCountBldgTypeT

Column list of the key idtKey

Name	Code
Tract	Tract

Code preview of idtKey

```
alter table huBldgCountBldgTypeT
   drop constraint PK_HUBLDGCOUNTBLDGTYPET
go
```

Index list of the table huBldgCountBldgTypeT

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
RLNTRACT_BCOUNTBT_FK	RLNTRACT_BCOUNTBT_FK	TRUE	FALSE	FALSE	TRUE	FALSE

Index RLNTRACT_BCOUNTBT_FK of table huBldgCountBldgTypeT

Card of the index RLNTRACT_BCOUNTBT_FK of the table huBldgCountBldgTypeT

Name	RLNTRACT_BCOUNTBT_FK
Code	RLNTRACT_BCOUNTBT_FK
Unique	TRUE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huBldgCountBldgTypeT

Column list of the index RLNTRACT_BCOUNTBT_FK

Name	Code	Sort
Tract	Tract	Ascending

Code preview of RLNTRACT_BCOUNTBT_FK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huBldgCountBldgTypeT

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huBldgCountBldgTypeT

```
alter table huBldgCountBldgTypeT
   drop constraint FK_HUBLDGCO_RLNTRACT__HZTRACT
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huBldgCountBldgTypeT')
            and   type = 'U')
   drop table huBldgCountBldgTypeT
go


/*==============================================================*/
/* Table: huBldgCountBldgTypeT                                  */
/*==============================================================*/
create table huBldgCountBldgTypeT (
Tract              char(11)           not null,
WSF1i              int                null,
WSF2i              int                null,
WMUH1i             int                null,
WMUH2i             int                null,
WMUH3i             int                null,
MSF1i              int                null,
MSF2i              int                null,
MMUH1i             int                null,
MMUH2i             int                null,
MMUH3i             int                null,
MLRM1i             int                null,
MLRM2i             int                null,
MLRIi              int                null,
MERBLi             int                null,
MERBMi             int                null,
MERBHi             int                null,
MECBLi             int                null,
```

```
MECBMi          int          null,
MECBHi          int          null,
CERBLi          int          null,
CERBMi          int          null,
CERBHi          int          null,
CECBLi          int          null,
CECBMi          int          null,
CECBHi          int          null,
SPMBSi          int          null,
SPMBMi          int          null,
SPMBLi          int          null,
SERBLi          int          null,
SERBMi          int          null,
SERBHi          int          null,
SECBLi          int          null,
SECBMi          int          null,
SECBHi          int          null,
MHPHUDi         int          null,
MH76HUDi        int          null,
MH94HUDIi       int          null,
MH94HUDIIi      int          null,
MH94HUDIIIi     int          null,
constraint PK_HUBLDGCOUNTBLDGTYPET primary key  (Tract)
)
go


alter table huBldgCountBldgTypeT
  add constraint FK_HUBLDGCO_RLNTRACT__HZTRACT foreign key (Tract)
    references hzTract (Tract)
    on delete cascade on update cascade
go
```

Table huBldgCountBldgTypeB

Card of the table huBldgCountBldgTypeB

Name	huBldgCountBldgTypeB
Code	huBldgCountBldgTypeB
DBMS	Microsoft SQL Server 2000

Constraint name of table huBldgCountBldgTypeB

CKT_HUBLDGCOUNTBLDGTYPEB

Column list of the table huBldgCountBldgTypeB

Name	Code
CECBHi	CECBHi
CECBLi	CECBLi
CECBMi	CECBMi
CERBHi	CERBHi
CERBLi	CERBLi
CERBMi	CERBMi
CensusBlock	CensusBlock
MECBHi	MECBHi
MECBLi	MECBLi
MECBMi	MECBMi
MERBHi	MERBHi

MERBLi	MERBLi
MERBMi	MERBMi
MH76HUDi	MH76HUDi
MH94HUDIIIi	MH94HUDIIIi
MH94HUDIIi	MH94HUDIIi
MH94HUDIi	MH94HUDIi
MHPHUDi	MHPHUDi
MLRIi	MLRIi
MLRM1i	MLRM1i
MLRM2i	MLRM2i
MMUH1i	MMUH1i
MMUH2i	MMUH2i
MMUH3i	MMUH3i
MSF1i	MSF1i
MSF2i	MSF2i
SECBHi	SECBHi
SECBLi	SECBLi
SECBMi	SECBMi
SERBHi	SERBHi
SERBLi	SERBLi
SERBMi	SERBMi
SPMBLi	SPMBLi
SPMBMi	SPMBMi
SPMBSi	SPMBSi
WMUH1i	WMUH1i
WMUH2i	WMUH2i
WMUH3i	WMUH3i
WSF1i	WSF1i
WSF2i	WSF2i

Column CensusBlock of table huBldgCountBldgTypeB

Card of the column CensusBlock of the table huBldgCountBldgTypeB

Name	CensusBlock
Code	CensusBlock
Data Type	char(15)
Mandatory	TRUE

Standard check of column CensusBlock of table huBldgCountBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CensusBlock of table huBldgCountBldgTypeB

CKC_CENSUSBLOCK_HUBLDGCO

Column WSF1i of table huBldgCountBldgTypeB

Card of the column WSF1i of the table huBldgCountBldgTypeB

Name	WSF1i
Code	WSF1i
Data Type	int
Mandatory	FALSE

Standard check of column WSF1i of table huBldgCountBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WSF1i of table huBldgCountBldgTypeB

CKC_WSF1I_HUBLDGCO

Column WSF2i of table huBldgCountBldgTypeB

Card of the column WSF2i of the table huBldgCountBldgTypeB

Name	WSF2i
Code	WSF2i
Data Type	int
Mandatory	FALSE

Standard check of column WSF2i of table huBldgCountBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WSF2i of table huBldgCountBldgTypeB

CKC_WSF2I_HUBLDGCO

Column WMUH1i of table huBldgCountBldgTypeB

Card of the column WMUH1i of the table huBldgCountBldgTypeB

Name	WMUH1i
Code	WMUH1i
Data Type	int
Mandatory	FALSE

Standard check of column WMUH1i of table huBldgCountBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WMUH1i of table huBldgCountBldgTypeB

CKC_WMUH1I_HUBLDGCO

Column WMUH2i of table huBldgCountBldgTypeB

Card of the column WMUH2i of the table huBldgCountBldgTypeB

Name	WMUH2i
Code	WMUH2i
Data Type	int
Mandatory	FALSE

Standard check of column WMUH2i of table huBldgCountBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WMUH2i of table huBldgCountBldgTypeB

CKC_WMUH2I_HUBLDGCO

Column WMUH3i of table huBldgCountBldgTypeB

Card of the column WMUH3i of the table huBldgCountBldgTypeB

Name	WMUH3i
Code	WMUH3i
Data Type	int
Mandatory	FALSE

Standard check of column WMUH3i of table huBldgCountBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WMUH3i of table huBldgCountBldgTypeB

CKC_WMUH3I_HUBLDGCO

Column MSF1i of table huBldgCountBldgTypeB

Card of the column MSF1i of the table huBldgCountBldgTypeB

Name	MSF1i
Code	MSF1i
Data Type	int
Mandatory	FALSE

Standard check of column MSF1i of table huBldgCountBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MSF1i of table huBldgCountBldgTypeB

CKC_MSF1I_HUBLDGCO

Column MSF2i of table huBldgCountBldgTypeB

Card of the column MSF2i of the table huBldgCountBldgTypeB

Name	MSF2i
Code	MSF2i
Data Type	int
Mandatory	FALSE

Standard check of column MSF2i of table huBldgCountBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MSF2i of table huBldgCountBldgTypeB

CKC_MSF2I_HUBLDGCO

Column MMUH1i of table huBldgCountBldgTypeB

Card of the column MMUH1i of the table huBldgCountBldgTypeB

Name	MMUH1i
Code	MMUH1i
Data Type	int
Mandatory	FALSE

Standard check of column MMUH1i of table huBldgCountBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MMUH1i of table huBldgCountBldgTypeB

CKC_MMUH1I_HUBLDGCO

Column MMUH2i of table huBldgCountBldgTypeB

Card of the column MMUH2i of the table huBldgCountBldgTypeB

Name	MMUH2i
Code	MMUH2i
Data Type	int
Mandatory	FALSE

Standard check of column MMUH2i of table huBldgCountBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MMUH2i of table huBldgCountBldgTypeB

CKC_MMUH2I_HUBLDGCO

Column MMUH3i of table huBldgCountBldgTypeB

Card of the column MMUH3i of the table huBldgCountBldgTypeB

Name	MMUH3i
Code	MMUH3i
Data Type	int
Mandatory	FALSE

Standard check of column MMUH3i of table huBldgCountBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MMUH3i of table huBldgCountBldgTypeB

CKC_MMUH3I_HUBLDGCO

Column MLRM1i of table huBldgCountBldgTypeB

Card of the column MLRM1i of the table huBldgCountBldgTypeB

Name	MLRM1i
Code	MLRM1i
Data Type	int
Mandatory	FALSE

Standard check of column MLRM1i of table huBldgCountBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MLRM1i of table huBldgCountBldgTypeB

CKC_MLRM1I_HUBLDGCO

Column MLRM2i of table huBldgCountBldgTypeB

Card of the column MLRM2i of the table huBldgCountBldgTypeB

Name	MLRM2i
Code	MLRM2i
Data Type	int
Mandatory	FALSE

Standard check of column MLRM2i of table huBldgCountBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MLRM2i of table huBldgCountBldgTypeB

CKC_MLRM2I_HUBLDGCO

Column MLRIi of table huBldgCountBldgTypeB

Card of the column MLRIi of the table huBldgCountBldgTypeB

Name	MLRIi
Code	MLRIi
Data Type	int
Mandatory	FALSE

Standard check of column MLRIi of table huBldgCountBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MLRIi of table huBldgCountBldgTypeB

CKC_MLRII_HUBLDGCO

Column MERBLi of table huBldgCountBldgTypeB

Card of the column MERBLi of the table huBldgCountBldgTypeB

Name	MERBLi
Code	MERBLi
Data Type	int
Mandatory	FALSE

Standard check of column MERBLi of table huBldgCountBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MERBLi of table huBldgCountBldgTypeB

CKC_MERBLI_HUBLDGCO

Column MERBMi of table huBldgCountBldgTypeB

Card of the column MERBMi of the table huBldgCountBldgTypeB

Name	MERBMi
Code	MERBMi
Data Type	int
Mandatory	FALSE

Standard check of column MERBMi of table huBldgCountBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MERBMi of table huBldgCountBldgTypeB

CKC_MERBMI_HUBLDGCO

Column MERBHi of table huBldgCountBldgTypeB

Card of the column MERBHi of the table huBldgCountBldgTypeB

Name	MERBHi
Code	MERBHi
Data Type	int
Mandatory	FALSE

Standard check of column MERBHi of table huBldgCountBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MERBHi of table huBldgCountBldgTypeB

CKC_MERBHI_HUBLDGCO

Column MECBLi of table huBldgCountBldgTypeB

Card of the column MECBLi of the table huBldgCountBldgTypeB

Name	MECBLi
Code	MECBLi
Data Type	int
Mandatory	FALSE

Standard check of column MECBLi of table huBldgCountBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MECBLi of table huBldgCountBldgTypeB

CKC_MECBLI_HUBLDGCO

Column MECBMi of table huBldgCountBldgTypeB

Card of the column MECBMi of the table huBldgCountBldgTypeB

Name	MECBMi
Code	MECBMi
Data Type	int
Mandatory	FALSE

Standard check of column MECBMi of table huBldgCountBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MECBMi of table huBldgCountBldgTypeB

CKC_MECBMI_HUBLDGCO

Column MECBHi of table huBldgCountBldgTypeB

Card of the column MECBHi of the table huBldgCountBldgTypeB

Name	MECBHi
Code	MECBHi
Data Type	int
Mandatory	FALSE

Standard check of column MECBHi of table huBldgCountBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MECBHi of table huBldgCountBldgTypeB

CKC_MECBHI_HUBLDGCO

Column CERBLi of table huBldgCountBldgTypeB

Card of the column CERBLi of the table huBldgCountBldgTypeB

Name	CERBLi
Code	CERBLi
Data Type	int
Mandatory	FALSE

Standard check of column CERBLi of table huBldgCountBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CERBLi of table huBldgCountBldgTypeB

CKC_CERBLI_HUBLDGCO

Column CERBMi of table huBldgCountBldgTypeB

Card of the column CERBMi of the table huBldgCountBldgTypeB

Name	CERBMi
Code	CERBMi
Data Type	int
Mandatory	FALSE

Standard check of column CERBMi of table huBldgCountBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CERBMi of table huBldgCountBldgTypeB

CKC_CERBMI_HUBLDGCO

Column CERBHi of table huBldgCountBldgTypeB

Card of the column CERBHi of the table huBldgCountBldgTypeB

Name	CERBHi
Code	CERBHi
Data Type	int
Mandatory	FALSE

Standard check of column CERBHi of table huBldgCountBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CERBHi of table huBldgCountBldgTypeB

CKC_CERBHI_HUBLDGCO

Column CECBLi of table huBldgCountBldgTypeB

Card of the column CECBLi of the table huBldgCountBldgTypeB

Name	CECBLi
Code	CECBLi
Data Type	int
Mandatory	FALSE

Standard check of column CECBLi of table huBldgCountBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CECBLi of table huBldgCountBldgTypeB

CKC_CECBLI_HUBLDGCO

Column CECBMi of table huBldgCountBldgTypeB

Card of the column CECBMi of the table huBldgCountBldgTypeB

Name	CECBMi
Code	CECBMi
Data Type	int
Mandatory	FALSE

Standard check of column CECBMi of table huBldgCountBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CECBMi of table huBldgCountBldgTypeB

CKC_CECBMI_HUBLDGCO

Column CECBHi of table huBldgCountBldgTypeB

Card of the column CECBHi of the table huBldgCountBldgTypeB

Name	CECBHi
Code	CECBHi
Data Type	int
Mandatory	FALSE

Standard check of column CECBHi of table huBldgCountBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CECBHi of table huBldgCountBldgTypeB

CKC_CECBHI_HUBLDGCO

Column SPMBSi of table huBldgCountBldgTypeB

Card of the column SPMBSi of the table huBldgCountBldgTypeB

Name	SPMBSi
Code	SPMBSi
Data Type	int
Mandatory	FALSE

Standard check of column SPMBSi of table huBldgCountBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SPMBSi of table huBldgCountBldgTypeB

CKC_SPMBSI_HUBLDGCO

Column SPMBMi of table huBldgCountBldgTypeB

Card of the column SPMBMi of the table huBldgCountBldgTypeB

Name	SPMBMi
Code	SPMBMi
Data Type	int
Mandatory	FALSE

Standard check of column SPMBMi of table huBldgCountBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SPMBMi of table huBldgCountBldgTypeB

CKC_SPMBMI_HUBLDGCO

Column SPMBLi of table huBldgCountBldgTypeB

Card of the column SPMBLi of the table huBldgCountBldgTypeB

Name	SPMBLi
Code	SPMBLi
Data Type	int
Mandatory	FALSE

Standard check of column SPMBLi of table huBldgCountBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SPMBLi of table huBldgCountBldgTypeB

CKC_SPMBLI_HUBLDGCO

Column SERBLi of table huBldgCountBldgTypeB

Card of the column SERBLi of the table huBldgCountBldgTypeB

Name	SERBLi
Code	SERBLi
Data Type	int
Mandatory	FALSE

Standard check of column SERBLi of table huBldgCountBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SERBLi of table huBldgCountBldgTypeB

CKC_SERBLI_HUBLDGCO

Column SERBMi of table huBldgCountBldgTypeB

Card of the column SERBMi of the table huBldgCountBldgTypeB

Name	SERBMi
Code	SERBMi
Data Type	int
Mandatory	FALSE

Standard check of column SERBMi of table huBldgCountBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SERBMi of table huBldgCountBldgTypeB

CKC_SERBMI_HUBLDGCO

Column SERBHi of table huBldgCountBldgTypeB

Card of the column SERBHi of the table huBldgCountBldgTypeB

Name	SERBHi
Code	SERBHi
Data Type	int
Mandatory	FALSE

Standard check of column SERBHi of table huBldgCountBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SERBHi of table huBldgCountBldgTypeB

CKC_SERBHI_HUBLDGCO

Column SECBLi of table huBldgCountBldgTypeB

Card of the column SECBLi of the table huBldgCountBldgTypeB

Name	SECBLi
Code	SECBLi
Data Type	int
Mandatory	FALSE

Standard check of column SECBLi of table huBldgCountBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SECBLi of table huBldgCountBldgTypeB

CKC_SECBLI_HUBLDGCO

Column SECBMi of table huBldgCountBldgTypeB

Card of the column SECBMi of the table huBldgCountBldgTypeB

Name	SECBMi
Code	SECBMi
Data Type	int
Mandatory	FALSE

Standard check of column SECBMi of table huBldgCountBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SECBMi of table huBldgCountBldgTypeB

CKC_SECBMI_HUBLDGCO

Column SECBHi of table huBldgCountBldgTypeB

Card of the column SECBHi of the table huBldgCountBldgTypeB

Name	SECBHi
Code	SECBHi
Data Type	int
Mandatory	FALSE

Standard check of column SECBHi of table huBldgCountBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SECBHi of table huBldgCountBldgTypeB

CKC_SECBHI_HUBLDGCO

Column MHPHUDi of table huBldgCountBldgTypeB

Card of the column MHPHUDi of the table huBldgCountBldgTypeB

Name	MHPHUDi
Code	MHPHUDi
Data Type	int
Mandatory	FALSE

Standard check of column MHPHUDi of table huBldgCountBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MHPHUDi of table huBldgCountBldgTypeB

CKC_MHPHUDI_HUBLDGCO

Column MH76HUDi of table huBldgCountBldgTypeB

Card of the column MH76HUDi of the table huBldgCountBldgTypeB

Name	MH76HUDi
Code	MH76HUDi
Data Type	int
Mandatory	FALSE

Standard check of column MH76HUDi of table huBldgCountBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MH76HUDi of table huBldgCountBldgTypeB

CKC_MH76HUDI_HUBLDGCO

Column MH94HUDIi of table huBldgCountBldgTypeB

Card of the column MH94HUDIi of the table huBldgCountBldgTypeB

Name	MH94HUDIi
Code	MH94HUDIi
Data Type	int
Mandatory	FALSE

Standard check of column MH94HUDIi of table huBldgCountBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MH94HUDIi of table huBldgCountBldgTypeB

CKC_MH94HUDII_HUBLDGCO

Column MH94HUDIIi of table huBldgCountBldgTypeB

Card of the column MH94HUDIIi of the table huBldgCountBldgTypeB

Name	MH94HUDIIi
Code	MH94HUDIIi
Data Type	int
Mandatory	FALSE

Standard check of column MH94HUDIIi of table huBldgCountBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MH94HUDIIi of table huBldgCountBldgTypeB

CKC_MH94HUDIII_HUBLDGCO

Column MH94HUDIIIi of table huBldgCountBldgTypeB

Card of the column MH94HUDIIIi of the table huBldgCountBldgTypeB

Name	MH94HUDIIIi
Code	MH94HUDIIIi
Data Type	int
Mandatory	FALSE

Standard check of column MH94HUDIIIi of table huBldgCountBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MH94HUDIIIi of table huBldgCountBldgTypeB

CKC_MH94HUDIIII_HUBLDGCO

Key list of the table huBldgCountBldgTypeB

Name	Code
Key_1	Key_1

Key Key_1 of table huBldgCountBldgTypeB

Card of the key Key_1 of the table huBldgCountBldgTypeB

Name	Key_1
Code	Key_1
Table	huBldgCountBldgTypeB

Column list of the key Key_1

Name	Code
CensusBlock	CensusBlock

Code preview of Key_1

```
alter table huBldgCountBldgTypeB
   drop constraint PK_HUBLDGCOUNTBLDGTYPEB
go
```

Index list of the table huBldgCountBldgTypeB

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
RLNBLOCK_BCOUNTGBT_FK	RLNBLOCK_BCOUNTGBT_FK	FALSE	FALSE	FALSE	TRUE	FALSE

Index RLNBLOCK_BCOUNTGBT_FK of table huBldgCountBldgTypeB

Card of the index RLNBLOCK_BCOUNTGBT_FK of the table huBldgCountBldgTypeB

Name	RLNBLOCK_BCOUNTGBT_FK
Code	RLNBLOCK_BCOUNTGBT_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huBldgCountBldgTypeB

Column list of the index RLNBLOCK_BCOUNTGBT_FK

Name	Code	Sort
CensusBlock	CensusBlock	Ascending

Code preview of RLNBLOCK_BCOUNTGBT_FK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huBldgCountBldgTypeB

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huBldgCountBldgTypeB

```
alter table huBldgCountBldgTypeB
   drop constraint FK_HUBLDGCO_RLNBLOCK__HZCENSUS
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huBldgCountBldgTypeB')
            and   type = 'U')
   drop table huBldgCountBldgTypeB
go


/*==============================================================*/
/* Table: huBldgCountBldgTypeB                                  */
/*==============================================================*/
create table huBldgCountBldgTypeB (
CensusBlock          char(15)             not null,
WSF1i                int                  null,
WSF2i                int                  null,
WMUH1i               int                  null,
WMUH2i               int                  null,
WMUH3i               int                  null,
MSF1i                int                  null,
MSF2i                int                  null,
MMUH1i               int                  null,
MMUH2i               int                  null,
MMUH3i               int                  null,
MLRM1i               int                  null,
MLRM2i               int                  null,
MLRIi                int                  null,
MERBLi               int                  null,
MERBMi               int                  null,
MERBHi               int                  null,
```

```
MECBLi          int          null,
MECBMi          int          null,
MECBHi          int          null,
CERBLi          int          null,
CERBMi          int          null,
CERBHi          int          null,
CECBLi          int          null,
CECBMi          int          null,
CECBHi          int          null,
SPMBSi          int          null,
SPMBMi          int          null,
SPMBLi          int          null,
SERBLi          int          null,
SERBMi          int          null,
SERBHi          int          null,
SECBLi          int          null,
SECBMi          int          null,
SECBHi          int          null,
MHPHUDi         int          null,
MH76HUDi        int          null,
MH94HUDIi       int          null,
MH94HUDIIi      int          null,
MH94HUDIIIi     int          null,
constraint PK_HUBLDGCOUNTBLDGTYPEB primary key  (CensusBlock)
)
go


alter table huBldgCountBldgTypeB
  add constraint FK_HUBLDGCO_RLNBLOCK__HZCENSUS foreign key (CensusBlock)
    references hzCensusBlock (CensusBlock)
    on delete cascade on update cascade
go
```

Table huExposureBldgTypeT

Card of the table huExposureBldgTypeT

Name	huExposureBldgTypeT
Code	huExposureBldgTypeT
DBMS	Microsoft SQL Server 2000

Constraint name of table huExposureBldgTypeT

CKT_HUEXPOSUREBLDGTYPET

Column list of the table huExposureBldgTypeT

Name	Code
CECBHi	CECBHi
CECBLi	CECBLi
CECBMi	CECBMi
CERBHi	CERBHi
CERBLi	CERBLi
CERBMi	CERBMi
MECBHi	MECBHi
MECBLi	MECBLi
MECBMi	MECBMi
MERBHi	MERBHi
MERBLi	MERBLi

MERBMi	MERBMi
MH76HUDi	MH76HUDi
MH94HUDIIIi	MH94HUDIIIi
MH94HUDIIi	MH94HUDIIi
MH94HUDIi	MH94HUDIi
MHPHUDi	MHPHUDi
MLRIi	MLRIi
MLRM1i	MLRM1i
MLRM2i	MLRM2i
MMUH1i	MMUH1i
MMUH2i	MMUH2i
MMUH3i	MMUH3i
MSF1i	MSF1i
MSF2i	MSF2i
SECBHi	SECBHi
SECBLi	SECBLi
SECBMi	SECBMi
SERBHi	SERBHi
SERBLi	SERBLi
SERBMi	SERBMi
SPMBLi	SPMBLi
SPMBMi	SPMBMi
SPMBSi	SPMBSi
Tract	Tract
WMUH1i	WMUH1i
WMUH2i	WMUH2i
WMUH3i	WMUH3i
WSF1i	WSF1i
WSF2i	WSF2i

Column Tract of table huExposureBldgTypeT

Card of the column Tract of the table huExposureBldgTypeT

Name	Tract
Code	Tract
Data Type	char(11)
Mandatory	TRUE

Standard check of column Tract of table huExposureBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Tract of table huExposureBldgTypeT

CKC_TRACT_HUEXPOSU

Column WSF1i of table huExposureBldgTypeT

Card of the column WSF1i of the table huExposureBldgTypeT

Name	WSF1i
Code	WSF1i
Data Type	int
Mandatory	FALSE

Standard check of column WSF1i of table huExposureBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WSF1i of table huExposureBldgTypeT

CKC_WSF1I_HUEXPOSU

Column WSF2i of table huExposureBldgTypeT

Card of the column WSF2i of the table huExposureBldgTypeT

Name	WSF2i
Code	WSF2i
Data Type	int
Mandatory	FALSE

Standard check of column WSF2i of table huExposureBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WSF2i of table huExposureBldgTypeT

CKC_WSF2I_HUEXPOSU

Column WMUH1i of table huExposureBldgTypeT

Card of the column WMUH1i of the table huExposureBldgTypeT

Name	WMUH1i
Code	WMUH1i
Data Type	int
Mandatory	FALSE

Standard check of column WMUH1i of table huExposureBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WMUH1i of table huExposureBldgTypeT

CKC_WMUH1I_HUEXPOSU

Column WMUH2i of table huExposureBldgTypeT

Card of the column WMUH2i of the table huExposureBldgTypeT

Name	WMUH2i
Code	WMUH2i
Data Type	int
Mandatory	FALSE

Standard check of column WMUH2i of table huExposureBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WMUH2i of table huExposureBldgTypeT

CKC_WMUH2I_HUEXPOSU

Column WMUH3i of table huExposureBldgTypeT

Card of the column WMUH3i of the table huExposureBldgTypeT

Name	WMUH3i
Code	WMUH3i
Data Type	int
Mandatory	FALSE

Standard check of column WMUH3i of table huExposureBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WMUH3i of table huExposureBldgTypeT

CKC_WMUH3I_HUEXPOSU

Column MSF1i of table huExposureBldgTypeT

Card of the column MSF1i of the table huExposureBldgTypeT

Name	MSF1i
Code	MSF1i
Data Type	int
Mandatory	FALSE

Standard check of column MSF1i of table huExposureBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MSF1i of table huExposureBldgTypeT

CKC_MSF1I_HUEXPOSU

Column MSF2i of table huExposureBldgTypeT

Card of the column MSF2i of the table huExposureBldgTypeT

Name	MSF2i
Code	MSF2i
Data Type	int
Mandatory	FALSE

Standard check of column MSF2i of table huExposureBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MSF2i of table huExposureBldgTypeT

CKC_MSF2I_HUEXPOSU

Column MMUH1i of table huExposureBldgTypeT

Card of the column MMUH1i of the table huExposureBldgTypeT

Name	MMUH1i
Code	MMUH1i
Data Type	int
Mandatory	FALSE

Standard check of column MMUH1i of table huExposureBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MMUH1i of table huExposureBldgTypeT

CKC_MMUH1I_HUEXPOSU

Column MMUH2i of table huExposureBldgTypeT

Card of the column MMUH2i of the table huExposureBldgTypeT

Name	MMUH2i
Code	MMUH2i
Data Type	int
Mandatory	FALSE

Standard check of column MMUH2i of table huExposureBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MMUH2i of table huExposureBldgTypeT

CKC_MMUH2I_HUEXPOSU

Column MMUH3i of table huExposureBldgTypeT

Card of the column MMUH3i of the table huExposureBldgTypeT

Name	MMUH3i
Code	MMUH3i
Data Type	int
Mandatory	FALSE

Standard check of column MMUH3i of table huExposureBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MMUH3i of table huExposureBldgTypeT

CKC_MMUH3I_HUEXPOSU

Column MLRM1i of table huExposureBldgTypeT

Card of the column MLRM1i of the table huExposureBldgTypeT

Name	MLRM1i
Code	MLRM1i
Data Type	int
Mandatory	FALSE

Standard check of column MLRM1i of table huExposureBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MLRM1i of table huExposureBldgTypeT

CKC_MLRM1I_HUEXPOSU

Column MLRM2i of table huExposureBldgTypeT

Card of the column MLRM2i of the table huExposureBldgTypeT

Name	MLRM2i
Code	MLRM2i
Data Type	int
Mandatory	FALSE

Standard check of column MLRM2i of table huExposureBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MLRM2i of table huExposureBldgTypeT

CKC_MLRM2I_HUEXPOSU

Column MLRIi of table huExposureBldgTypeT

Card of the column MLRIi of the table huExposureBldgTypeT

Name	MLRIi
Code	MLRIi
Data Type	int
Mandatory	FALSE

Standard check of column MLRIi of table huExposureBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MLRIi of table huExposureBldgTypeT

CKC_MLRII_HUEXPOSU

Column MERBLi of table huExposureBldgTypeT

Card of the column MERBLi of the table huExposureBldgTypeT

Name	MERBLi
Code	MERBLi
Data Type	int
Mandatory	FALSE

Standard check of column MERBLi of table huExposureBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MERBLi of table huExposureBldgTypeT

CKC_MERBLI_HUEXPOSU

Column MERBMi of table huExposureBldgTypeT

Card of the column MERBMi of the table huExposureBldgTypeT

Name	MERBMi
Code	MERBMi
Data Type	int
Mandatory	FALSE

Standard check of column MERBMi of table huExposureBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MERBMi of table huExposureBldgTypeT

CKC_MERBMI_HUEXPOSU

Column MERBHi of table huExposureBldgTypeT

Card of the column MERBHi of the table huExposureBldgTypeT

Name	MERBHi
Code	MERBHi
Data Type	int
Mandatory	FALSE

Standard check of column MERBHi of table huExposureBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MERBHi of table huExposureBldgTypeT

CKC_MERBHI_HUEXPOSU

Column MECBLi of table huExposureBldgTypeT

Card of the column MECBLi of the table huExposureBldgTypeT

Name	MECBLi
Code	MECBLi
Data Type	int
Mandatory	FALSE

Standard check of column MECBLi of table huExposureBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MECBLi of table huExposureBldgTypeT

CKC_MECBLI_HUEXPOSU

Column MECBMi of table huExposureBldgTypeT

Card of the column MECBMi of the table huExposureBldgTypeT

Name	MECBMi
Code	MECBMi
Data Type	int
Mandatory	FALSE

Standard check of column MECBMi of table huExposureBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MECBMi of table huExposureBldgTypeT

CKC_MECBMI_HUEXPOSU

Column MECBHi of table huExposureBldgTypeT

Card of the column MECBHi of the table huExposureBldgTypeT

Name	MECBHi
Code	MECBHi
Data Type	int
Mandatory	FALSE

Standard check of column MECBHi of table huExposureBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MECBHi of table huExposureBldgTypeT

CKC_MECBHI_HUEXPOSU

Column CERBLi of table huExposureBldgTypeT

Card of the column CERBLi of the table huExposureBldgTypeT

Name	CERBLi
Code	CERBLi
Data Type	int
Mandatory	FALSE

Standard check of column CERBLi of table huExposureBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CERBLi of table huExposureBldgTypeT

CKC_CERBLI_HUEXPOSU

Column CERBMi of table huExposureBldgTypeT

Card of the column CERBMi of the table huExposureBldgTypeT

Name	CERBMi
Code	CERBMi
Data Type	int
Mandatory	FALSE

Standard check of column CERBMi of table huExposureBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CERBMi of table huExposureBldgTypeT

CKC_CERBMI_HUEXPOSU

Column CERBHi of table huExposureBldgTypeT

Card of the column CERBHi of the table huExposureBldgTypeT

Name	CERBHi
Code	CERBHi
Data Type	int
Mandatory	FALSE

Standard check of column CERBHi of table huExposureBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CERBHi of table huExposureBldgTypeT

CKC_CERBHI_HUEXPOSU

Column CECBLi of table huExposureBldgTypeT

Card of the column CECBLi of the table huExposureBldgTypeT

Name	CECBLi
Code	CECBLi
Data Type	int
Mandatory	FALSE

Standard check of column CECBLi of table huExposureBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CECBLi of table huExposureBldgTypeT

CKC_CECBLI_HUEXPOSU

Column CECBMi of table huExposureBldgTypeT

Card of the column CECBMi of the table huExposureBldgTypeT

Name	CECBMi
Code	CECBMi
Data Type	int
Mandatory	FALSE

Standard check of column CECBMi of table huExposureBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CECBMi of table huExposureBldgTypeT

CKC_CECBMI_HUEXPOSU

Column CECBHi of table huExposureBldgTypeT

Card of the column CECBHi of the table huExposureBldgTypeT

Name	CECBHi
Code	CECBHi
Data Type	int
Mandatory	FALSE

Standard check of column CECBHi of table huExposureBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CECBHi of table huExposureBldgTypeT

CKC_CECBHI_HUEXPOSU

Column SPMBSi of table huExposureBldgTypeT

Card of the column SPMBSi of the table huExposureBldgTypeT

Name	SPMBSi
Code	SPMBSi
Data Type	int
Mandatory	FALSE

Standard check of column SPMBSi of table huExposureBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SPMBSi of table huExposureBldgTypeT

CKC_SPMBSI_HUEXPOSU

Column SPMBMi of table huExposureBldgTypeT

Card of the column SPMBMi of the table huExposureBldgTypeT

Name	SPMBMi
Code	SPMBMi
Data Type	int
Mandatory	FALSE

Standard check of column SPMBMi of table huExposureBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SPMBMi of table huExposureBldgTypeT

CKC_SPMBMI_HUEXPOSU

Column SPMBLi of table huExposureBldgTypeT

Card of the column SPMBLi of the table huExposureBldgTypeT

Name	SPMBLi
Code	SPMBLi
Data Type	int
Mandatory	FALSE

Standard check of column SPMBLi of table huExposureBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SPMBLi of table huExposureBldgTypeT

CKC_SPMBLI_HUEXPOSU

Column SERBLi of table huExposureBldgTypeT

Card of the column SERBLi of the table huExposureBldgTypeT

Name	SERBLi
Code	SERBLi
Data Type	int
Mandatory	FALSE

Standard check of column SERBLi of table huExposureBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SERBLi of table huExposureBldgTypeT

CKC_SERBLI_HUEXPOSU

Column SERBMi of table huExposureBldgTypeT

Card of the column SERBMi of the table huExposureBldgTypeT

Name	SERBMi
Code	SERBMi
Data Type	int
Mandatory	FALSE

Standard check of column SERBMi of table huExposureBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SERBMi of table huExposureBldgTypeT

CKC_SERBMI_HUEXPOSU

Column SERBHi of table huExposureBldgTypeT

Card of the column SERBHi of the table huExposureBldgTypeT

Name	SERBHi
Code	SERBHi
Data Type	int
Mandatory	FALSE

Standard check of column SERBHi of table huExposureBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SERBHi of table huExposureBldgTypeT

CKC_SERBHI_HUEXPOSU

Column SECBLi of table huExposureBldgTypeT

Card of the column SECBLi of the table huExposureBldgTypeT

Name	SECBLi
Code	SECBLi
Data Type	int
Mandatory	FALSE

Standard check of column SECBLi of table huExposureBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SECBLi of table huExposureBldgTypeT

CKC_SECBLI_HUEXPOSU

Column SECBMi of table huExposureBldgTypeT

Card of the column SECBMi of the table huExposureBldgTypeT

Name	SECBMi
Code	SECBMi
Data Type	int
Mandatory	FALSE

Standard check of column SECBMi of table huExposureBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SECBMi of table huExposureBldgTypeT

CKC_SECBMI_HUEXPOSU

Column SECBHi of table huExposureBldgTypeT

Card of the column SECBHi of the table huExposureBldgTypeT

Name	SECBHi
Code	SECBHi
Data Type	int
Mandatory	FALSE

Standard check of column SECBHi of table huExposureBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SECBHi of table huExposureBldgTypeT

CKC_SECBHI_HUEXPOSU

Column MHPHUDi of table huExposureBldgTypeT

Card of the column MHPHUDi of the table huExposureBldgTypeT

Name	MHPHUDi
Code	MHPHUDi
Data Type	int
Mandatory	FALSE

Standard check of column MHPHUDi of table huExposureBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MHPHUDi of table huExposureBldgTypeT

CKC_MHPHUDI_HUEXPOSU

Column MH76HUDi of table huExposureBldgTypeT

Card of the column MH76HUDi of the table huExposureBldgTypeT

Name	MH76HUDi
Code	MH76HUDi
Data Type	int
Mandatory	FALSE

Standard check of column MH76HUDi of table huExposureBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MH76HUDi of table huExposureBldgTypeT

CKC_MH76HUDI_HUEXPOSU

Column MH94HUDIi of table huExposureBldgTypeT

Card of the column MH94HUDIi of the table huExposureBldgTypeT

Name	MH94HUDIi
Code	MH94HUDIi
Data Type	int
Mandatory	FALSE

Standard check of column MH94HUDIi of table huExposureBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MH94HUDIi of table huExposureBldgTypeT

CKC_MH94HUDII_HUEXPOSU

Column MH94HUDIIi of table huExposureBldgTypeT

Card of the column MH94HUDIIi of the table huExposureBldgTypeT

Name	MH94HUDIIi
Code	MH94HUDIIi
Data Type	int
Mandatory	FALSE

Standard check of column MH94HUDIIi of table huExposureBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MH94HUDIIi of table huExposureBldgTypeT

CKC_MH94HUDIII_HUEXPOSU

Column MH94HUDIIIi of table huExposureBldgTypeT

Card of the column MH94HUDIIIi of the table huExposureBldgTypeT

Name	MH94HUDIIIi
Code	MH94HUDIIIi
Data Type	int
Mandatory	FALSE

Standard check of column MH94HUDIIIi of table huExposureBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MH94HUDIIIi of table huExposureBldgTypeT

CKC_MH94HUDIIII_HUEXPOSU

Key list of the table huExposureBldgTypeT

Name	Code
idtKey	idtKey

Key idtKey of table huExposureBldgTypeT

Card of the key idtKey of the table huExposureBldgTypeT

Name	idtKey
Code	idtKey
Table	huExposureBldgTypeT

Column list of the key idtKey

Name	Code
Tract	Tract

Code preview of idtKey

```
alter table huExposureBldgTypeT
   drop constraint PK_HUEXPOSUREBLDGTYPET
go
```

Index list of the table huExposureBldgTypeT

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
RLNTRACT_HUEXPBT_FK	RLNTRACT_HUEXPBT_FK	FALSE	FALSE	FALSE	TRUE	FALSE

Index RLNTRACT_HUEXPBT_FK of table huExposureBldgTypeT

Card of the index RLNTRACT_HUEXPBT_FK of the table huExposureBldgTypeT

Name	RLNTRACT_HUEXPBT_FK
Code	RLNTRACT_HUEXPBT_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huExposureBldgTypeT

Column list of the index RLNTRACT_HUEXPBT_FK

Name	Code	Sort
Tract	Tract	Ascending

Code preview of RLNTRACT_HUEXPBT_FK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huExposureBldgTypeT

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huExposureBldgTypeT

```
alter table huExposureBldgTypeT
   drop constraint FK_HUEXPOSU_RLNTRACT__HZTRACT
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huExposureBldgTypeT')
            and   type = 'U')
   drop table huExposureBldgTypeT
go


/*==============================================================*/
/* Table: huExposureBldgTypeT                                   */
/*==============================================================*/
create table huExposureBldgTypeT (
Tract              char(11)           not null,
WSF1i              int                null,
WSF2i              int                null,
WMUH1i             int                null,
WMUH2i             int                null,
WMUH3i             int                null,
MSF1i              int                null,
MSF2i              int                null,
MMUH1i             int                null,
MMUH2i             int                null,
MMUH3i             int                null,
MLRM1i             int                null,
MLRM2i             int                null,
MLRIi              int                null,
MERBLi             int                null,
MERBMi             int                null,
MERBHi             int                null,
MECBLi             int                null,
```

```
MECBMi          int          null,
MECBHi          int          null,
CERBLi          int          null,
CERBMi          int          null,
CERBHi          int          null,
CECBLi          int          null,
CECBMi          int          null,
CECBHi          int          null,
SPMBSi          int          null,
SPMBMi          int          null,
SPMBLi          int          null,
SERBLi          int          null,
SERBMi          int          null,
SERBHi          int          null,
SECBLi          int          null,
SECBMi          int          null,
SECBHi          int          null,
MHPHUDi         int          null,
MH76HUDi        int          null,
MH94HUDIi       int          null,
MH94HUDIIi      int          null,
MH94HUDIIIi     int          null,
constraint PK_HUEXPOSUREBLDGTYPET primary key  (Tract)
)
go


alter table huExposureBldgTypeT
  add constraint FK_HUEXPOSU_RLNTRACT__HZTRACT foreign key (Tract)
    references hzTract (Tract)
    on delete cascade on update cascade
go
```

Table huGbsOccMappingList

Card of the table huGbsOccMappingList

Name	huGbsOccMappingList
Code	huGbsOccMappingList
DBMS	Microsoft SQL Server 2000

Constraint name of table huGbsOccMappingList

CKT_HUGBSOCCMAPPINGLIST

Column list of the table huGbsOccMappingList

Name	Code
CaseID	CaseID
SchemeCreated	SchemeCreated
SchemeDescription	SchemeDescription
SchemeUpdated	SchemeUpdated
Updateable	Updateable
huOccMapSchemeName	huOccMapSchemeName

Column huOccMapSchemeName of table huGbsOccMappingList

Card of the column huOccMapSchemeName of the table huGbsOccMappingList

Name	huOccMapSchemeName
Code	huOccMapSchemeName
Data Type	varchar(20)
Mandatory	TRUE

Standard check of column huOccMapSchemeName of table huGbsOccMappingList

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column huOccMapSchemeName of table huGbsOccMappingList

CKC_HUOCCMAPSCHEMENAM_HUGBSOCC

Column SchemeDescription of table huGbsOccMappingList

Card of the column SchemeDescription of the table huGbsOccMappingList

Name	SchemeDescription
Code	SchemeDescription
Data Type	varchar(40)
Mandatory	FALSE

Standard check of column SchemeDescription of table huGbsOccMappingList

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SchemeDescription of table huGbsOccMappingList

CKC_SCHEMEDESCRIPTION_HUGBSOCC

Column SchemeCreated of table huGbsOccMappingList

Card of the column SchemeCreated of the table huGbsOccMappingList

Name	SchemeCreated
Code	SchemeCreated
Data Type	datetime
Mandatory	FALSE

Standard check of column SchemeCreated of table huGbsOccMappingList

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SchemeCreated of table huGbsOccMappingList

CKC_SCHEMECREATED_HUGBSOCC

Column SchemeUpdated of table huGbsOccMappingList

Card of the column SchemeUpdated of the table huGbsOccMappingList

Name	SchemeUpdated
Code	SchemeUpdated
Data Type	datetime
Mandatory	FALSE

Standard check of column SchemeUpdated of table huGbsOccMappingList

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SchemeUpdated of table huGbsOccMappingList

CKC_SCHEMEUPDATED_HUGBSOCC

Column Updateable of table huGbsOccMappingList

Card of the column Updateable of the table huGbsOccMappingList

Name	Updateable
Code	Updateable
Data Type	bit
Mandatory	FALSE

Standard check of column Updateable of table huGbsOccMappingList

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Updateable of table huGbsOccMappingList

CKC_UPDATEABLE_HUGBSOCC

Column CaseID of table huGbsOccMappingList

Card of the column CaseID of the table huGbsOccMappingList

Name	CaseID
Code	CaseID
Data Type	int
Mandatory	FALSE

Standard check of column CaseID of table huGbsOccMappingList

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CaseID of table huGbsOccMappingList

CKC_CASEID_HUGBSOCC

Key list of the table huGbsOccMappingList

Name	Code
idthuOccMapSchemeName	idthuOccMapSchemeName

Key idthuOccMapSchemeName of table huGbsOccMappingList

Card of the key idthuOccMapSchemeName of the table huGbsOccMappingList

Name	idthuOccMapSchemeName
Code	idthuOccMapSchemeName
Table	huGbsOccMappingList

Column list of the key idthuOccMapSchemeName

Name	Code
huOccMapSchemeName	huOccMapSchemeName

Code preview of idthuOccMapSchemeName

```
alter table huGbsOccMappingList
   drop constraint PK_HUGBSOCCMAPPINGLIST
go
```

Index list of the table huGbsOccMappingList

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
idthuOccMapSchemeName	idthuOccMapSchemeName	TRUE	FALSE	TRUE	FALSE	FALSE

Index idthuOccMapSchemeName of table huGbsOccMappingList

Card of the index idthuOccMapSchemeName of the table huGbsOccMappingList

Name	idthuOccMapSchemeName
Code	idthuOccMapSchemeName
Unique	TRUE
Cluster	FALSE
Primary	TRUE
Foreign Key	FALSE
Alternate Key	FALSE
Table	huGbsOccMappingList

Column list of the index idthuOccMapSchemeName

Name	Code	Sort
huOccMapSchemeName	huOccMapSchemeName	Ascending

Code preview of idthuOccMapSchemeName

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huGbsOccMappingList

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huGbsOccMappingList

```
if exists (select 1
          from  sysobjects
         where  id = object_id('huGbsOccMappingList')
          and   type = 'U')
   drop table huGbsOccMappingList
go


/*==============================================================*/
/* Table: huGbsOccMappingList                                   */
/*==============================================================*/
create table huGbsOccMappingList (
huOccMapSchemeName   varchar(20)         not null,
SchemeDescription    varchar(40)         null,
SchemeCreated        datetime            null,
SchemeUpdated        datetime            null,
```

```
Updateable          bit                 null,
CaseID              int                 null,
constraint PK_HUGBSOCCMAPPINGLIST primary key  (huOccMapSchemeName)
)
go
```

Table huGbsOccMapping

Card of the table huGbsOccMapping

Name	huGbsOccMapping
Code	huGbsOccMapping
DBMS	Microsoft SQL Server 2000

Constraint name of table huGbsOccMapping

CKT_HUGBSOCCMAPPING

Column list of the table huGbsOccMapping

Name	Code
CECBHp	CECBHp
CECBLp	CECBLp
CECBMp	CECBMp
CERBHp	CERBHp
CERBLp	CERBLp
CERBMp	CERBMp
MECBHp	MECBHp
MECBLp	MECBLp
MECBMp	MECBMp
MERBHp	MERBHp
MERBLp	MERBLp
MERBMp	MERBMp
MH76HUDp	MH76HUDp
MH94HUDIIIp	MH94HUDIIIp
MH94HUDIIp	MH94HUDIIp
MH94HUDIp	MH94HUDIp
MHPHUDp	MHPHUDp
MLRIp	MLRIp
MLRM1p	MLRM1p
MLRM2p	MLRM2p
MMUH1p	MMUH1p
MMUH2p	MMUH2p
MMUH3p	MMUH3p
MSF1p	MSF1p
MSF2p	MSF2p
Occupancy	Occupancy
SECBHp	SECBHp
SECBLp	SECBLp
SECBMp	SECBMp
SERBHp	SERBHp
SERBLp	SERBLp
SERBMp	SERBMp
SPMBLp	SPMBLp
SPMBMp	SPMBMp
SPMBSp	SPMBSp
WMUH1p	WMUH1p

WMUH2p	WMUH2p
WMUH3p	WMUH3p
WSF1p	WSF1p
WSF2p	WSF2p
huOccMapSchemeName	huOccMapSchemeName

Column huOccMapSchemeName of table huGbsOccMapping

Card of the column huOccMapSchemeName of the table huGbsOccMapping

Name	huOccMapSchemeName
Code	huOccMapSchemeName
Data Type	varchar(20)
Mandatory	TRUE

Standard check of column huOccMapSchemeName of table huGbsOccMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column huOccMapSchemeName of table huGbsOccMapping

CKC_HUOCCMAPSCHEMENAM_HUGBSOCC

Column Occupancy of table huGbsOccMapping

Card of the column Occupancy of the table huGbsOccMapping

Name	Occupancy
Code	Occupancy
Data Type	char(5)
Mandatory	TRUE

Standard check of column Occupancy of table huGbsOccMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	TRUE
Lower case	FALSE
Cannot modify	FALSE
List of values	RES1 RES2 RES3A RES3B RES3C RES3D RES3E RES3F RES4 RES5 RES6 COM1 COM2 COM3 COM4 COM5 COM6 COM7 COM8 COM9 COM10 IND1 IND2 IND3 IND4 IND5 IND6 AGR1 REL1 GOV1 GOV2 EDU1 EDU2

Constraint name of column Occupancy of table huGbsOccMapping

CKC_OCCUPANCY_HUGBSOCC

Column WSF1p of table huGbsOccMapping

Card of the column WSF1p of the table huGbsOccMapping

Name	WSF1p
Code	WSF1p
Data Type	tinyint
Mandatory	FALSE

Standard check of column WSF1p of table huGbsOccMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WSF1p of table huGbsOccMapping

CKC_WSF1P_HUGBSOCC

Column WSF2p of table huGbsOccMapping

Card of the column WSF2p of the table huGbsOccMapping

Name	WSF2p
Code	WSF2p
Data Type	tinyint
Mandatory	FALSE

Standard check of column WSF2p of table huGbsOccMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WSF2p of table huGbsOccMapping

CKC_WSF2P_HUGBSOCC

Column WMUH1p of table huGbsOccMapping

Card of the column WMUH1p of the table huGbsOccMapping

Name	WMUH1p
Code	WMUH1p
Data Type	tinyint
Mandatory	FALSE

Standard check of column WMUH1p of table huGbsOccMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WMUH1p of table huGbsOccMapping

CKC_WMUH1P_HUGBSOCC

Column WMUH2p of table huGbsOccMapping

Card of the column WMUH2p of the table huGbsOccMapping

Name	WMUH2p
Code	WMUH2p
Data Type	tinyint
Mandatory	FALSE

Standard check of column WMUH2p of table huGbsOccMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WMUH2p of table huGbsOccMapping

CKC_WMUH2P_HUGBSOCC

Column WMUH3p of table huGbsOccMapping

Card of the column WMUH3p of the table huGbsOccMapping

Name	WMUH3p
Code	WMUH3p
Data Type	tinyint
Mandatory	FALSE

Standard check of column WMUH3p of table huGbsOccMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WMUH3p of table huGbsOccMapping

CKC_WMUH3P_HUGBSOCC

Column MSF1p of table huGbsOccMapping

Card of the column MSF1p of the table huGbsOccMapping

Name	MSF1p
Code	MSF1p
Data Type	tinyint
Mandatory	FALSE

Standard check of column MSF1p of table huGbsOccMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MSF1p of table huGbsOccMapping

CKC_MSF1P_HUGBSOCC

Column MSF2p of table huGbsOccMapping

Card of the column MSF2p of the table huGbsOccMapping

Name	MSF2p
Code	MSF2p
Data Type	tinyint
Mandatory	FALSE

Standard check of column MSF2p of table huGbsOccMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MSF2p of table huGbsOccMapping

CKC_MSF2P_HUGBSOCC

Column MMUH1p of table huGbsOccMapping

Card of the column MMUH1p of the table huGbsOccMapping

Name	MMUH1p
Code	MMUH1p
Data Type	tinyint
Mandatory	FALSE

Standard check of column MMUH1p of table huGbsOccMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MMUH1p of table huGbsOccMapping

CKC_MMUH1P_HUGBSOCC

Column MMUH2p of table huGbsOccMapping

Card of the column MMUH2p of the table huGbsOccMapping

Name	MMUH2p
Code	MMUH2p
Data Type	tinyint
Mandatory	FALSE

Standard check of column MMUH2p of table huGbsOccMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MMUH2p of table huGbsOccMapping

CKC_MMUH2P_HUGBSOCC

Column MMUH3p of table huGbsOccMapping

Card of the column MMUH3p of the table huGbsOccMapping

Name	MMUH3p
Code	MMUH3p
Data Type	tinyint
Mandatory	FALSE

Standard check of column MMUH3p of table huGbsOccMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MMUH3p of table huGbsOccMapping

CKC_MMUH3P_HUGBSOCC

Column MLRM1p of table huGbsOccMapping

Card of the column MLRM1p of the table huGbsOccMapping

Name	MLRM1p
Code	MLRM1p
Data Type	tinyint
Mandatory	FALSE

Standard check of column MLRM1p of table huGbsOccMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MLRM1p of table huGbsOccMapping

CKC_MLRM1P_HUGBSOCC

Column MLRM2p of table huGbsOccMapping

Card of the column MLRM2p of the table huGbsOccMapping

Name	MLRM2p
Code	MLRM2p
Data Type	tinyint
Mandatory	FALSE

Standard check of column MLRM2p of table huGbsOccMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MLRM2p of table huGbsOccMapping

CKC_MLRM2P_HUGBSOCC

Column MLRIp of table huGbsOccMapping

Card of the column MLRIp of the table huGbsOccMapping

Name	MLRIp
Code	MLRIp
Data Type	tinyint
Mandatory	FALSE

Standard check of column MLRIp of table huGbsOccMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MLRIp of table huGbsOccMapping

CKC_MLRIP_HUGBSOCC

Column MERBLp of table huGbsOccMapping

Card of the column MERBLp of the table huGbsOccMapping

Name	MERBLp
Code	MERBLp
Data Type	tinyint
Mandatory	FALSE

Standard check of column MERBLp of table huGbsOccMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MERBLp of table huGbsOccMapping

CKC_MERBLP_HUGBSOCC

Column MERBMp of table huGbsOccMapping

Card of the column MERBMp of the table huGbsOccMapping

Name	MERBMp
Code	MERBMp
Data Type	tinyint
Mandatory	FALSE

Standard check of column MERBMp of table huGbsOccMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MERBMp of table huGbsOccMapping

CKC_MERBMP_HUGBSOCC

Column MERBHp of table huGbsOccMapping

Card of the column MERBHp of the table huGbsOccMapping

Name	MERBHp
Code	MERBHp
Data Type	tinyint
Mandatory	FALSE

Standard check of column MERBHp of table huGbsOccMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MERBHp of table huGbsOccMapping

CKC_MERBHP_HUGBSOCC

Column MECBLp of table huGbsOccMapping

Card of the column MECBLp of the table huGbsOccMapping

Name	MECBLp
Code	MECBLp
Data Type	tinyint
Mandatory	FALSE

Standard check of column MECBLp of table huGbsOccMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MECBLp of table huGbsOccMapping

CKC_MECBLP_HUGBSOCC

Column MECBMp of table huGbsOccMapping

Card of the column MECBMp of the table huGbsOccMapping

Name	MECBMp
Code	MECBMp
Data Type	tinyint
Mandatory	FALSE

Standard check of column MECBMp of table huGbsOccMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MECBMp of table huGbsOccMapping

CKC_MECBMP_HUGBSOCC

Column MECBHp of table huGbsOccMapping

Card of the column MECBHp of the table huGbsOccMapping

Name	MECBHp
Code	MECBHp
Data Type	tinyint
Mandatory	FALSE

Standard check of column MECBHp of table huGbsOccMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MECBHp of table huGbsOccMapping

CKC_MECBHP_HUGBSOCC

Column CERBLp of table huGbsOccMapping

Card of the column CERBLp of the table huGbsOccMapping

Name	CERBLp
Code	CERBLp
Data Type	tinyint
Mandatory	FALSE

Standard check of column CERBLp of table huGbsOccMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CERBLp of table huGbsOccMapping

CKC_CERBLP_HUGBSOCC

Column CERBMp of table huGbsOccMapping

Card of the column CERBMp of the table huGbsOccMapping

Name	CERBMp
Code	CERBMp
Data Type	tinyint
Mandatory	FALSE

Standard check of column CERBMp of table huGbsOccMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CERBMp of table huGbsOccMapping

CKC_CERBMP_HUGBSOCC

Column CERBHp of table huGbsOccMapping

Card of the column CERBHp of the table huGbsOccMapping

Name	CERBHp
Code	CERBHp
Data Type	tinyint
Mandatory	FALSE

Standard check of column CERBHp of table huGbsOccMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CERBHp of table huGbsOccMapping

CKC_CERBHP_HUGBSOCC

Column CECBLp of table huGbsOccMapping

Card of the column CECBLp of the table huGbsOccMapping

Name	CECBLp
Code	CECBLp
Data Type	tinyint
Mandatory	FALSE

Standard check of column CECBLp of table huGbsOccMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CECBLp of table huGbsOccMapping

CKC_CECBLP_HUGBSOCC

Column CECBMp of table huGbsOccMapping

Card of the column CECBMp of the table huGbsOccMapping

Name	CECBMp
Code	CECBMp
Data Type	tinyint
Mandatory	FALSE

Standard check of column CECBMp of table huGbsOccMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CECBMp of table huGbsOccMapping

CKC_CECBMP_HUGBSOCC

Column CECBHp of table huGbsOccMapping

Card of the column CECBHp of the table huGbsOccMapping

Name	CECBHp
Code	CECBHp
Data Type	tinyint
Mandatory	FALSE

Standard check of column CECBHp of table huGbsOccMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CECBHp of table huGbsOccMapping

CKC_CECBHP_HUGBSOCC

Column SPMBSp of table huGbsOccMapping

Card of the column SPMBSp of the table huGbsOccMapping

Name	SPMBSp
Code	SPMBSp
Data Type	tinyint
Mandatory	FALSE

Standard check of column SPMBSp of table huGbsOccMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SPMBSp of table huGbsOccMapping

CKC_SPMBSP_HUGBSOCC

Column SPMBMp of table huGbsOccMapping

Card of the column SPMBMp of the table huGbsOccMapping

Name	SPMBMp
Code	SPMBMp
Data Type	tinyint
Mandatory	FALSE

Standard check of column SPMBMp of table huGbsOccMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SPMBMp of table huGbsOccMapping

CKC_SPMBMP_HUGBSOCC

Column SPMBLp of table huGbsOccMapping

Card of the column SPMBLp of the table huGbsOccMapping

Name	SPMBLp
Code	SPMBLp
Data Type	tinyint
Mandatory	FALSE

Standard check of column SPMBLp of table huGbsOccMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SPMBLp of table huGbsOccMapping

CKC_SPMBLP_HUGBSOCC

Column SERBLp of table huGbsOccMapping

Card of the column SERBLp of the table huGbsOccMapping

Name	SERBLp
Code	SERBLp
Data Type	tinyint
Mandatory	FALSE

Standard check of column SERBLp of table huGbsOccMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SERBLp of table huGbsOccMapping

CKC_SERBLP_HUGBSOCC

Column SERBMp of table huGbsOccMapping

Card of the column SERBMp of the table huGbsOccMapping

Name	SERBMp
Code	SERBMp
Data Type	tinyint
Mandatory	FALSE

Standard check of column SERBMp of table huGbsOccMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SERBMp of table huGbsOccMapping

CKC_SERBMP_HUGBSOCC

Column SERBHp of table huGbsOccMapping

Card of the column SERBHp of the table huGbsOccMapping

Name	SERBHp
Code	SERBHp
Data Type	tinyint
Mandatory	FALSE

Standard check of column SERBHp of table huGbsOccMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SERBHp of table huGbsOccMapping

CKC_SERBHP_HUGBSOCC

Column SECBLp of table huGbsOccMapping

Card of the column SECBLp of the table huGbsOccMapping

Name	SECBLp
Code	SECBLp
Data Type	tinyint
Mandatory	FALSE

Standard check of column SECBLp of table huGbsOccMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SECBLp of table huGbsOccMapping

CKC_SECBLP_HUGBSOCC

Column SECBMp of table huGbsOccMapping

Card of the column SECBMp of the table huGbsOccMapping

Name	SECBMp
Code	SECBMp
Data Type	tinyint
Mandatory	FALSE

Standard check of column SECBMp of table huGbsOccMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SECBMp of table huGbsOccMapping

CKC_SECBMP_HUGBSOCC

Column SECBHp of table huGbsOccMapping

Card of the column SECBHp of the table huGbsOccMapping

Name	SECBHp
Code	SECBHp
Data Type	tinyint
Mandatory	FALSE

Standard check of column SECBHp of table huGbsOccMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SECBHp of table huGbsOccMapping

CKC_SECBHP_HUGBSOCC

Column MHPHUDp of table huGbsOccMapping

Card of the column MHPHUDp of the table huGbsOccMapping

Name	MHPHUDp
Code	MHPHUDp
Data Type	tinyint
Mandatory	FALSE

Standard check of column MHPHUDp of table huGbsOccMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MHPHUDp of table huGbsOccMapping

CKC_MHPHUDP_HUGBSOCC

Column MH76HUDp of table huGbsOccMapping

Card of the column MH76HUDp of the table huGbsOccMapping

Name	MH76HUDp
Code	MH76HUDp
Data Type	tinyint
Mandatory	FALSE

Standard check of column MH76HUDp of table huGbsOccMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MH76HUDp of table huGbsOccMapping

CKC_MH76HUDP_HUGBSOCC

Column MH94HUDIp of table huGbsOccMapping

Card of the column MH94HUDIp of the table huGbsOccMapping

Name	MH94HUDIp
Code	MH94HUDIp
Data Type	tinyint
Mandatory	FALSE

Standard check of column MH94HUDIp of table huGbsOccMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MH94HUDIp of table huGbsOccMapping

CKC_MH94HUDIP_HUGBSOCC

Column MH94HUDIIp of table huGbsOccMapping

Card of the column MH94HUDIIp of the table huGbsOccMapping

Name	MH94HUDIIp
Code	MH94HUDIIp
Data Type	tinyint
Mandatory	FALSE

Standard check of column MH94HUDIIp of table huGbsOccMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MH94HUDIIp of table huGbsOccMapping

CKC_MH94HUDIIP_HUGBSOCC

Column MH94HUDIIIp of table huGbsOccMapping

Card of the column MH94HUDIIIp of the table huGbsOccMapping

Name	MH94HUDIIIp
Code	MH94HUDIIIp
Data Type	tinyint
Mandatory	FALSE

Standard check of column MH94HUDIIIp of table huGbsOccMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MH94HUDIIIp of table huGbsOccMapping

CKC_MH94HUDIIIP_HUGBSOCC

Key list of the table huGbsOccMapping

Name	Code
AK_OccMapping	AK_OccMapping
Key_2	Key_2

Key AK_OccMapping of table huGbsOccMapping

Card of the key AK_OccMapping of the table huGbsOccMapping

Name	AK_OccMapping
Code	AK_OccMapping
Table	huGbsOccMapping

Column list of the key AK_OccMapping

Name	Code
huOccMapSchemeName	huOccMapSchemeName
Occupancy	Occupancy

Code preview of AK_OccMapping

```
alter table huGbsOccMapping
  drop constraint AK_AK_OCCMAPPING_HUGBSOCC
go
```

Key Key_2 of table huGbsOccMapping

Card of the key Key_2 of the table huGbsOccMapping

Name	Key_2
Code	Key_2
Table	huGbsOccMapping

Column list of the key Key_2

Name	Code
huOccMapSchemeName	huOccMapSchemeName
Occupancy	Occupancy

Code preview of Key_2

```
alter table huGbsOccMapping
   drop constraint PK_HUGBSOCCMAPPING
go
```

Index list of the table huGbsOccMapping

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
RLNSOCC_HUGBSOM_FK	RLNSOCC_HUGBSOM_FK	FALSE	FALSE	FALSE	TRUE	FALSE
RLNSOCCMappingList_HUGBSOM	RLNSOCCMappingList_HUGBSOM	FALSE	FALSE	FALSE	TRUE	FALSE

Index RLNSOCC_HUGBSOM_FK of table huGbsOccMapping

Card of the index RLNSOCC_HUGBSOM_FK of the table huGbsOccMapping

Name	RLNSOCC_HUGBSOM_FK
Code	RLNSOCC_HUGBSOM_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huGbsOccMapping

Column list of the index RLNSOCC_HUGBSOM_FK

Name	Code	Sort
Occupancy	Occupancy	Ascending

Code preview of RLNSOCC_HUGBSOM_FK

The preview is empty because of the setting.
Check the generation option.

Index RLNSOCCMappingList_HUGBSOM of table huGbsOccMapping

Card of the index RLNSOCCMappingList_HUGBSOM of the table huGbsOccMapping

Name	RLNSOCCMappingList_HUGBSOM
Code	RLNSOCCMappingList_HUGBSOM
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huGbsOccMapping

Column list of the index RLNSOCCMappingList_HUGBSOM

Name	Code	Sort
huOccMapSchemeName	huOccMapSchemeName	Ascending

Code preview of RLNSOCCMappingList_HUGBSOM

The preview is empty because of the setting.

Check the generation option.

List of diagrams containing table huGbsOccMapping

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huGbsOccMapping

```
alter table huGbsOccMapping
   drop constraint FK_HUGBSOCC_RLNSOCC_H_CLOCCUPA
go


alter table huGbsOccMapping
   drop constraint FK_HUGBSOCC_RLNHUGBSO_HUGBSOCC
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huGbsOccMapping')
            and   type = 'U')
   drop table huGbsOccMapping
go


/*==============================================================*/
/* Table: huGbsOccMapping                                       */
/*==============================================================*/
create table huGbsOccMapping (
huOccMapSchemeName   varchar(20)         not null,
Occupancy            char(5)             not null
     constraint CKC_OCCUPANCY_HUGBSOCC check (Occupancy in
('RES1','RES2','RES3A','RES3B','RES3C','RES3D','RES3E','RES3F','RES4','RES5','RES6','COM1','COM2','COM3','COM4','COM5','
COM6','COM7','COM8','COM9','COM10','IND1','IND2','IND3','IND4','IND5','IND6','AGR1','REL1','GOV1','GOV2','EDU1','EDU2'))
,
WSF1p                tinyint             null,
WSF2p                tinyint             null,
WMUH1p               tinyint             null,
WMUH2p               tinyint             null,
WMUH3p               tinyint             null,
MSF1p                tinyint             null,
MSF2p                tinyint             null,
MMUH1p               tinyint             null,
MMUH2p               tinyint             null,
MMUH3p               tinyint             null,
MLRM1p               tinyint             null,
MLRM2p               tinyint             null,
MLRIp                tinyint             null,
MERBLp               tinyint             null,
MERBMp               tinyint             null,
MERBHp               tinyint             null,
MECBLp               tinyint             null,
MECBMp               tinyint             null,
MECBHp               tinyint             null,
CERBLp               tinyint             null,
CERBMp               tinyint             null,
CERBHp               tinyint             null,
CECBLp               tinyint             null,
CECBMp               tinyint             null,
CECBHp               tinyint             null,
SPMBSp               tinyint             null,
```

```
SPMBMp          tinyint          null,
SPMBLp          tinyint          null,
SERBLp          tinyint          null,
SERBMp          tinyint          null,
SERBHp          tinyint          null,
SECBLp          tinyint          null,
SECBMp          tinyint          null,
SECBHp          tinyint          null,
MHPHUDp         tinyint          null,
MH76HUDp        tinyint          null,
MH94HUDIp       tinyint          null,
MH94HUDIIp      tinyint          null,
MH94HUDIIIp     tinyint          null,
constraint PK_HUGBSOCCMAPPING primary key  (huOccMapSchemeName, Occupancy),
constraint AK_AK_OCCMAPPING_HUGBSOCC unique (huOccMapSchemeName, Occupancy)
)
go


alter table huGbsOccMapping
  add constraint FK_HUGBSOCC_RLNSOCC_H_CLOCCUPA foreign key (Occupancy)
    references clOccupancy (Occupancy)
go


alter table huGbsOccMapping
  add constraint FK_HUGBSOCC_RLNHUGBSO_HUGBSOCC foreign key (huOccMapSchemeName)
    references huGbsOccMappingList (huOccMapSchemeName)
    on delete cascade on update cascade
go
```

Table huBldgEconBIAnnGrossSales

Card of the table huBldgEconBIAnnGrossSales

Name	huBldgEconBIAnnGrossSales
Code	huBldgEconBIAnnGrossSales
DBMS	Microsoft SQL Server 2000

Constraint name of table huBldgEconBIAnnGrossSales

CKT_HUBLDGECONBIANNGROSSSALES

Column list of the table huBldgEconBIAnnGrossSales

Name	Code
Occupancy	Occupancy
Value	Value

Column Occupancy of table huBldgEconBIAnnGrossSales

Card of the column Occupancy of the table huBldgEconBIAnnGrossSales

Name	Occupancy
Code	Occupancy
Data Type	char(5)
Mandatory	TRUE

Standard check of column Occupancy of table huBldgEconBIAnnGrossSales

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Occupancy of table huBldgEconBIAnnGrossSales

CKC_OCCUPANCY_HUBLDGEC

Column Value of table huBldgEconBIAnnGrossSales

Card of the column Value of the table huBldgEconBIAnnGrossSales

Name	Value
Code	Value
Data Type	real
Mandatory	FALSE

Standard check of column Value of table huBldgEconBIAnnGrossSales

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Value of table huBldgEconBIAnnGrossSales

CKC_VALUE_HUBLDGEC

Key list of the table huBldgEconBIAnnGrossSales

Name	Code
PK_Occupancy	PK_Occupancy

Key PK_Occupancy of table huBldgEconBIAnnGrossSales

Card of the key PK_Occupancy of the table huBldgEconBIAnnGrossSales

Name	PK_Occupancy
Code	PK_Occupancy
Table	huBldgEconBIAnnGrossSales

Column list of the key PK_Occupancy

Name	Code
Occupancy	Occupancy

Code preview of PK_Occupancy

```
alter table huBldgEconBIAnnGrossSales
   drop constraint PK_HUBLDGECONBIANNGROSSSALES
go
```

Index list of the table huBldgEconBIAnnGrossSales

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
idtOccupancy	idtOccupancy	FALSE	FALSE	FALSE	FALSE	FALSE

Index idtOccupancy of table huBldgEconBIAnnGrossSales

Card of the index idtOccupancy of the table huBldgEconBIAnnGrossSales

Name	idtOccupancy
Code	idtOccupancy
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	FALSE
Alternate Key	FALSE
Table	huBldgEconBIAnnGrossSales

Column list of the index idtOccupancy

Name	Code	Sort
Occupancy	Occupancy	Ascending

Code preview of idtOccupancy

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huBldgEconBIAnnGrossSales

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huBldgEconBIAnnGrossSales

```
alter table huBldgEconBIAnnGrossSales
   drop constraint FK_HUBLDGEC_RLNOCC_BIAGS
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huBldgEconBIAnnGrossSales')
            and   type = 'U')
   drop table huBldgEconBIAnnGrossSales
go


/*==============================================================*/
/* Table: huBldgEconBIAnnGrossSales                             */
/*==============================================================*/
```

```
create table huBldgEconBIAnnGrossSales (
Occupancy          char(5)          not null,
Value              real             null default 0,
constraint PK_HUBLDGECONBIANNGROSSSALES primary key  (Occupancy)
)
go


alter table huBldgEconBIAnnGrossSales
  add constraint FK_HUBLDGEC_RLNOCC_BIAGS foreign key (Occupancy)
    references clOccupancy (Occupancy)
go
```

Table huPoliceStation

Card of the table huPoliceStation

Name	huPoliceStation
Code	huPoliceStation
DBMS	Microsoft SQL Server 2000

Constraint name of table huPoliceStation

CKT_HUPOLICESTATION

Column list of the table huPoliceStation

Name	Code
PoliceStationId	PoliceStationId
huBldgSchemeName	huBldgSchemeName
sbtName	sbtName

Column PoliceStationId of table huPoliceStation

Card of the column PoliceStationId of the table huPoliceStation

Name	PoliceStationId
Code	PoliceStationId
Data Type	char(8)
Mandatory	TRUE

Standard check of column PoliceStationId of table huPoliceStation

Low value	
High value	
Default value	
Unit	
Format	AA999999
Upper case	TRUE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column PoliceStationId of table huPoliceStation

CKC_POLICESTATIONID_HUPOLICE

Column huBldgSchemeName of table huPoliceStation

Card of the column huBldgSchemeName of the table huPoliceStation

Name	huBldgSchemeName
Code	huBldgSchemeName
Data Type	varchar(20)
Mandatory	FALSE

Standard check of column huBldgSchemeName of table huPoliceStation

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column huBldgSchemeName of table huPoliceStation

CKC_HUBLDGSCHEMENAME_HUPOLICE

Column sbtName of table huPoliceStation

Card of the column sbtName of the table huPoliceStation

Name	sbtName
Code	sbtName
Data Type	varchar(10)
Mandatory	FALSE

Standard check of column sbtName of table huPoliceStation

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column sbtName of table huPoliceStation

CKC_SBTNAME_HUPOLICE

Key list of the table huPoliceStation

Name	Code
idtKey	idtKey

Key idtKey of table huPoliceStation

Card of the key idtKey of the table huPoliceStation

Name	idtKey
Code	idtKey
Table	huPoliceStation

Column list of the key idtKey

Name	Code
PoliceStationId	PoliceStationId

Code preview of idtKey

```
alter table huPoliceStation
  drop constraint PK_HUPOLICESTATION
go
```

Index list of the table huPoliceStation

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
RLNPOLICE_HU_FK	RLNPOLICE_HU_FK	FALSE	FALSE	FALSE	TRUE	FALSE
RLNHUSBT_PS_FK	RLNHUSBT_PS_FK	FALSE	FALSE	FALSE	TRUE	FALSE
RLNHUBML_HUPS_FK	RLNHUBML_HUPS_FK	FALSE	FALSE	FALSE	TRUE	FALSE

Index RLNPOLICE_HU_FK of table huPoliceStation

Card of the index RLNPOLICE_HU_FK of the table huPoliceStation

Name	RLNPOLICE_HU_FK
Code	RLNPOLICE_HU_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huPoliceStation

Column list of the index RLNPOLICE_HU_FK

Name	Code	Sort
PoliceStationId	PoliceStationId	Ascending

Code preview of RLNPOLICE_HU_FK

The preview is empty because of the setting.
Check the generation option.

Index RLNHUSBT_PS_FK of table huPoliceStation

Card of the index RLNHUSBT_PS_FK of the table huPoliceStation

Name	RLNHUSBT_PS_FK
Code	RLNHUSBT_PS_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huPoliceStation

Column list of the index RLNHUSBT_PS_FK

Name	Code	Sort
sbtName	sbtName	Ascending

Code preview of RLNHUSBT_PS_FK

The preview is empty because of the setting.
Check the generation option.

Index RLNHUBML_HUPS_FK of table huPoliceStation

Card of the index RLNHUBML_HUPS_FK of the table huPoliceStation

Name	RLNHUBML_HUPS_FK
Code	RLNHUBML_HUPS_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huPoliceStation

Column list of the index RLNHUBML_HUPS_FK

Name	Code	Sort
huBldgSchemeName	huBldgSchemeName	Ascending

Code preview of RLNHUBML_HUPS_FK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huPoliceStation

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huPoliceStation

```
alter table huPoliceStation
   drop constraint FK_HUPOLICE_RLNPOLICE_HZPOLICE
go


alter table huPoliceStation
   drop constraint FK_HUPOLICE_RLNHUSBT__CLBLDGTY
go
```

```
alter table huPoliceStation
   drop constraint FK_HUPOLICE_RLNHUBML__HUBLDGMA
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huPoliceStation')
            and   type = 'U')
   drop table huPoliceStation
go


/*==============================================================*/
/* Table: huPoliceStation                                       */
/*==============================================================*/
create table huPoliceStation (
PoliceStationId      char(8)              not null,
huBldgSchemeName     varchar(20)          null,
sbtName              varchar(10)          null,
constraint PK_HUPOLICESTATION primary key  (PoliceStationId)
)
go


alter table huPoliceStation
   add constraint FK_HUPOLICE_RLNPOLICE_HZPOLICE foreign key (PoliceStationId)
      references hzPoliceStation (PoliceStationId)
      on delete cascade on update cascade
go


alter table huPoliceStation
   add constraint FK_HUPOLICE_RLNHUSBT__CLBLDGTY foreign key (sbtName)
      references clBldgTypeHu (sbtName)
go


alter table huPoliceStation
   add constraint FK_HUPOLICE_RLNHUBML__HUBLDGMA foreign key (huBldgSchemeName)
      references huBldgMappingList (huBldgSchemeName)
      on delete cascade on update cascade
go
```

Table huEmergencyCtr

Card of the table huEmergencyCtr

Name	huEmergencyCtr
Code	huEmergencyCtr
DBMS	Microsoft SQL Server 2000

Constraint name of table huEmergencyCtr

CKT_HUEMERGENCYCTR

Column list of the table huEmergencyCtr

Name	Code
EocId	EocId

huBldgSchemeName	huBldgSchemeName
sbtName	sbtName

Column EocId of table huEmergencyCtr

Card of the column EocId of the table huEmergencyCtr

Name	EocId
Code	EocId
Data Type	char(8)
Mandatory	TRUE

Standard check of column EocId of table huEmergencyCtr

Low value	
High value	
Default value	
Unit	
Format	AA999999
Upper case	TRUE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column EocId of table huEmergencyCtr

CKC_EOCID_HUEMERGE

Column huBldgSchemeName of table huEmergencyCtr

Card of the column huBldgSchemeName of the table huEmergencyCtr

Name	huBldgSchemeName
Code	huBldgSchemeName
Data Type	varchar(20)
Mandatory	FALSE

Standard check of column huBldgSchemeName of table huEmergencyCtr

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column huBldgSchemeName of table huEmergencyCtr

CKC_HUBLDGSCHEMENAME_HUEMERGE

Column sbtName of table huEmergencyCtr

Card of the column sbtName of the table huEmergencyCtr

Name	sbtName
Code	sbtName
Data Type	varchar(10)
Mandatory	FALSE

Standard check of column sbtName of table huEmergencyCtr

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column sbtName of table huEmergencyCtr

CKC_SBTNAME_HUEMERGE

Key list of the table huEmergencyCtr

Name	Code
idtKey	idtKey

Key idtKey of table huEmergencyCtr

Card of the key idtKey of the table huEmergencyCtr

Name	idtKey
Code	idtKey
Table	huEmergencyCtr

Column list of the key idtKey

Name	Code
EocId	EocId

Code preview of idtKey

```
alter table huEmergencyCtr
   drop constraint PK_HUEMERGENCYCTR
go
```

Index list of the table huEmergencyCtr

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
RLNEOCS_HU_FK	RLNEOCS_HU_FK	FALSE	FALSE	FALSE	TRUE	FALSE
RLNHUSBT_EC_FK	RLNHUSBT_EC_FK	FALSE	FALSE	FALSE	TRUE	FALSE
RLNHUBML_HUEC_FK	RLNHUBML_HUEC_FK	FALSE	FALSE	FALSE	TRUE	FALSE

Index RLNEOCS_HU_FK of table huEmergencyCtr

Card of the index RLNEOCS_HU_FK of the table huEmergencyCtr

Name	RLNEOCS_HU_FK
Code	RLNEOCS_HU_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huEmergencyCtr

Column list of the index RLNEOCS_HU_FK

Name	Code	Sort
EocId	EocId	Ascending

Code preview of RLNEOCS_HU_FK

The preview is empty because of the setting.
Check the generation option.

Index RLNHUSBT_EC_FK of table huEmergencyCtr

Card of the index RLNHUSBT_EC_FK of the table huEmergencyCtr

Name	RLNHUSBT_EC_FK
Code	RLNHUSBT_EC_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huEmergencyCtr

Column list of the index RLNHUSBT_EC_FK

Name	Code	Sort
sbtName	sbtName	Ascending

Code preview of RLNHUSBT_EC_FK

The preview is empty because of the setting.
Check the generation option.

Index RLNHUBML_HUEC_FK of table huEmergencyCtr

Card of the index RLNHUBML_HUEC_FK of the table huEmergencyCtr

Name	RLNHUBML_HUEC_FK
Code	RLNHUBML_HUEC_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huEmergencyCtr

Column list of the index RLNHUBML_HUEC_FK

Name	Code	Sort
huBldgSchemeName	huBldgSchemeName	Ascending

Code preview of RLNHUBML_HUEC_FK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huEmergencyCtr

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huEmergencyCtr

```
alter table huEmergencyCtr
   drop constraint FK_HUEMERGE_RLNEOCS_H_HZEMERGE
go


alter table huEmergencyCtr
   drop constraint FK_HUEMERGE_RLNHUSBT__CLBLDGTY
go


alter table huEmergencyCtr
   drop constraint FK_HUEMERGE_RLNHUBML__HUBLDGMA
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huEmergencyCtr')
            and   type = 'U')
   drop table huEmergencyCtr
go


/*==============================================================*/
/* Table: huEmergencyCtr                                        */
/*==============================================================*/
create table huEmergencyCtr (
EocId               char(8)             not null,
huBldgSchemeName    varchar(20)         null,
sbtName             varchar(10)         null,
constraint PK_HUEMERGENCYCTR primary key  (EocId)
)
go


alter table huEmergencyCtr
   add constraint FK_HUEMERGE_RLNEOCS_H_HZEMERGE foreign key (EocId)
      references hzEmergencyCtr (EocId)
      on delete cascade on update cascade
go


alter table huEmergencyCtr
   add constraint FK_HUEMERGE_RLNHUSBT__CLBLDGTY foreign key (sbtName)
      references clBldgTypeHu (sbtName)
go
```

```
alter table huEmergencyCtr
  add constraint FK_HUEMERGE_RLNHUBML__HUBLDGMA foreign key (huBldgSchemeName)
    references huBldgMappingList (huBldgSchemeName)
    on delete cascade on update cascade
go
```

Table huFireStation

Card of the table huFireStation

Name	huFireStation
Code	huFireStation
DBMS	Microsoft SQL Server 2000

Constraint name of table huFireStation

CKT_HUFIRESTATION

Column list of the table huFireStation

Name	Code
FireStationId	FireStationId
huBldgSchemeName	huBldgSchemeName
sbtName	sbtName

Column FireStationId of table huFireStation

Card of the column FireStationId of the table huFireStation

Name	FireStationId
Code	FireStationId
Data Type	char(8)
Mandatory	TRUE

Standard check of column FireStationId of table huFireStation

Low value	
High value	
Default value	
Unit	
Format	AA999999
Upper case	TRUE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column FireStationId of table huFireStation

CKC_FIRESTATIONID_HUFIREST

Column huBldgSchemeName of table huFireStation

Card of the column huBldgSchemeName of the table huFireStation

Name	huBldgSchemeName
Code	huBldgSchemeName
Data Type	varchar(20)
Mandatory	FALSE

Standard check of column huBldgSchemeName of table huFireStation

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column huBldgSchemeName of table huFireStation

CKC_HUBLDGSCHEMENAME_HUFIREST

Column sbtName of table huFireStation

Card of the column sbtName of the table huFireStation

Name	sbtName
Code	sbtName
Data Type	varchar(10)
Mandatory	FALSE

Standard check of column sbtName of table huFireStation

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column sbtName of table huFireStation

CKC_SBTNAME_HUFIREST

Key list of the table huFireStation

Name	Code
idtKey	idtKey

Key idtKey of table huFireStation

Card of the key idtKey of the table huFireStation

Name	idtKey
Code	idtKey
Table	huFireStation

Column list of the key idtKey

Name	Code
FireStationId	FireStationId

Code preview of idtKey

```
alter table huFireStation
  drop constraint PK_HUFIRESTATION
go
```

Index list of the table huFireStation

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
RLNHZFIRESTAT_HU_FK	RLNHZFIRESTAT_HU_FK	FALSE	FALSE	FALSE	TRUE	FALSE
RLNHUSBT_FS_FK	RLNHUSBT_FS_FK	FALSE	FALSE	FALSE	TRUE	FALSE
RLNHUBML_HUFS_FK	RLNHUBML_HUFS_FK	FALSE	FALSE	FALSE	TRUE	FALSE

Index RLNHZFIRESTAT_HU_FK of table huFireStation

Card of the index RLNHZFIRESTAT_HU_FK of the table huFireStation

Name	RLNHZFIRESTAT_HU_FK
Code	RLNHZFIRESTAT_HU_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huFireStation

Column list of the index RLNHZFIRESTAT_HU_FK

Name	Code	Sort
FireStationId	FireStationId	Ascending

Code preview of RLNHZFIRESTAT_HU_FK

The preview is empty because of the setting.
Check the generation option.

Index RLNHUSBT_FS_FK of table huFireStation

Card of the index RLNHUSBT_FS_FK of the table huFireStation

Name	RLNHUSBT_FS_FK
Code	RLNHUSBT_FS_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huFireStation

Column list of the index RLNHUSBT_FS_FK

Name	Code	Sort
sbtName	sbtName	Ascending

Code preview of RLNHUSBT_FS_FK

The preview is empty because of the setting.
Check the generation option.

Index RLNHUBML_HUFS_FK of table huFireStation

Card of the index RLNHUBML_HUFS_FK of the table huFireStation

Name	RLNHUBML_HUFS_FK
Code	RLNHUBML_HUFS_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huFireStation

Column list of the index RLNHUBML_HUFS_FK

Name	Code	Sort
huBldgSchemeName	huBldgSchemeName	Ascending

Code preview of RLNHUBML_HUFS_FK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huFireStation

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huFireStation

```
alter table huFireStation
   drop constraint FK_HUFIREST_RLNHZFIRE_HZFIREST
go


alter table huFireStation
   drop constraint FK_HUFIREST_RLNHUSBT__CLBLDGTY
go
```

```
alter table huFireStation
   drop constraint FK_HUFIREST_RLNHUBML__HUBLDGMA
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huFireStation')
            and   type = 'U')
   drop table huFireStation
go


/*==============================================================*/
/* Table: huFireStation                                         */
/*==============================================================*/
create table huFireStation (
FireStationId        char(8)              not null,
huBldgSchemeName     varchar(20)          null,
sbtName              varchar(10)          null,
constraint PK_HUFIRESTATION primary key  (FireStationId)
)
go


alter table huFireStation
   add constraint FK_HUFIREST_RLNHZFIRE_HZFIREST foreign key (FireStationId)
      references hzFireStation (FireStationId)
      on delete cascade on update cascade
go


alter table huFireStation
   add constraint FK_HUFIREST_RLNHUSBT__CLBLDGTY foreign key (sbtName)
      references clBldgTypeHu (sbtName)
go


alter table huFireStation
   add constraint FK_HUFIREST_RLNHUBML__HUBLDGMA foreign key (huBldgSchemeName)
      references huBldgMappingList (huBldgSchemeName)
      on delete cascade on update cascade
go
```

Table huReturn Periods

Card of the table huReturn Periods

Name	huReturn Periods
Code	huReturn_Periods
DBMS	Microsoft SQL Server 2000

Constraint name of table huReturn Periods

CKT_HURETURN_PERIODS

Column list of the table huReturn Periods

Name	Code
RPString	RPString

Return_Period	Return_Period

Column Return_Period of table huReturn Periods

Card of the column Return_Period of the table huReturn Periods

Name	Return_Period
Code	Return_Period
Data Type	varchar(25)
Mandatory	TRUE

Standard check of column Return_Period of table huReturn Periods

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Return_Period of table huReturn Periods

CKC_RETURN_PERIOD_HURETURN

Column RPString of table huReturn Periods

Card of the column RPString of the table huReturn Periods

Name	RPString
Code	RPString
Data Type	varchar(25)
Mandatory	FALSE

Standard check of column RPString of table huReturn Periods

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column RPString of table huReturn Periods

CKC_RPSTRING_HURETURN

Key list of the table huReturn Periods

Name	Code
idtReturnPeriod	idtReturnPeriod

Key idtReturnPeriod of table huReturn Periods

Card of the key idtReturnPeriod of the table huReturn Periods

Name	idtReturnPeriod
Code	idtReturnPeriod
Table	huReturn Periods

Column list of the key idtReturnPeriod

Name	Code
Return_Period	Return_Period

Code preview of idtReturnPeriod

```
alter table huReturn_Periods
   drop constraint PK_HURETURN_PERIODS
go
```

Index list of the table huReturn Periods

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
Return_Periods_PK	Return_Periods_PK	TRUE	FALSE	TRUE	FALSE	FALSE

Index Return_Periods_PK of table huReturn Periods

Card of the index Return_Periods_PK of the table huReturn Periods

Name	Return_Periods_PK
Code	Return_Periods_PK
Unique	TRUE
Cluster	FALSE
Primary	TRUE
Foreign Key	FALSE
Alternate Key	FALSE
Table	huReturn Periods

Column list of the index Return_Periods_PK

Name	Code	Sort
Return_Period	Return_Period	Ascending

Code preview of Return_Periods_PK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huReturn Periods

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram
Main CDM Diagram	Main CDM Diagram
Main CDM Diagram	Main CDM Diagram
Main CDM Diagram	Main CDM Diagram
Main CDM Diagram	Main CDM Diagram

Code preview of huReturn Periods

```
if exists (select 1
          from  sysobjects
         where  id = object_id('huReturn_Periods')
          and   type = 'U')
   drop table huReturn_Periods
go


/*==============================================================*/
/* Table: huReturn_Periods                                      */
/*==============================================================*/
create table huReturn_Periods (
Return_Period        varchar(25)          not null,
RPString             varchar(25)          null,
constraint PK_HURETURN_PERIODS primary key  (Return_Period)
)
go
```

Table huReports

Card of the table huReports

Name	huReports
Code	huReports
DBMS	Microsoft SQL Server 2000

Constraint name of table huReports

CKT_HUREPORTS

Column list of the table huReports

Name	Code
FileName	FileName
ReportName	ReportName
TabName	TabName
bAvailable	bAvailable

Column TabName of table huReports

Card of the column TabName of the table huReports

Name	TabName
Code	TabName
Data Type	varchar(50)
Mandatory	FALSE

Standard check of column TabName of table huReports

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column TabName of table huReports

CKC_TABNAME_HUREPORT

Column ReportName of table huReports

Card of the column ReportName of the table huReports

Name	ReportName
Code	ReportName
Data Type	varchar(50)
Mandatory	FALSE

Standard check of column ReportName of table huReports

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column ReportName of table huReports

CKC_REPORTNAME_HUREPORT

Column FileName of table huReports

Card of the column FileName of the table huReports

Name	FileName
Code	FileName
Data Type	varchar(50)
Mandatory	FALSE

Standard check of column FileName of table huReports

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column FileName of table huReports

CKC_FILENAME_HUREPORT

Column bAvailable of table huReports

Card of the column bAvailable of the table huReports

Name	bAvailable
Code	bAvailable
Data Type	smallint
Mandatory	FALSE

Standard check of column bAvailable of table huReports

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column bAvailable of table huReports

CKC_BAVAILABLE_HUREPORT

List of diagrams containing table huReports

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huReports

```
if exists (select 1
          from  sysobjects
         where  id = object_id('huReports')
          and   type = 'U')
   drop table huReports
go


/*==============================================================*/
/* Table: huReports                                             */
/*==============================================================*/
create table huReports (
TabName             varchar(50)         null,
```

```
ReportName      varchar(50)      null,
FileName        varchar(50)      null,
bAvailable      smallint         null
)
go
```

Table huGridProperties

Card of the table huGridProperties

Name	huGridProperties
Code	huGridProperties
DBMS	Microsoft SQL Server 2000

Constraint name of table huGridProperties

CKT_HUGRIDPROPERTIES

Column list of the table huGridProperties

Name	Code
GridName	GridName
HU_GRIDCOL_CONTROL	HU_GRIDCOL_CONTROL
HU_GRIDCOL_EDITMODE	HU_GRIDCOL_EDITMODE
HU_GRIDCOL_EXTNAME	HU_GRIDCOL_EXTNAME
HU_GRIDCOL_INDEX	HU_GRIDCOL_INDEX
HU_GRIDCOL_INTNAME	HU_GRIDCOL_INTNAME
HU_GRIDCOL_TXTCOLOR	HU_GRIDCOL_TXTCOLOR
HU_GRIDCOL_TYPE	HU_GRIDCOL_TYPE
HU_GRIDCOL_WIDTH	HU_GRIDCOL_WIDTH

Column GridName of table huGridProperties

Card of the column GridName of the table huGridProperties

Name	GridName
Code	GridName
Data Type	varchar(50)
Mandatory	TRUE

Standard check of column GridName of table huGridProperties

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column GridName of table huGridProperties

CKC_GRIDNAME_HUGRIDPR

Column HU_GRIDCOL_EXTNAME of table huGridProperties

Card of the column HU_GRIDCOL_EXTNAME of the table huGridProperties

Name	HU_GRIDCOL_EXTNAME
Code	HU_GRIDCOL_EXTNAME
Data Type	varchar(50)
Mandatory	TRUE

Standard check of column HU_GRIDCOL_EXTNAME of table huGridProperties

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column HU_GRIDCOL_EXTNAME of table huGridProperties

CKC_HU_GRIDCOL_EXTNAM_HUGRIDPR

Column HU_GRIDCOL_TYPE of table huGridProperties

Card of the column HU_GRIDCOL_TYPE of the table huGridProperties

Name	HU_GRIDCOL_TYPE
Code	HU_GRIDCOL_TYPE
Data Type	int
Mandatory	TRUE

Standard check of column HU_GRIDCOL_TYPE of table huGridProperties

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column HU_GRIDCOL_TYPE of table huGridProperties

CKC_HU_GRIDCOL_TYPE_HUGRIDPR

Column HU_GRIDCOL_EDITMODE of table huGridProperties

Card of the column HU_GRIDCOL_EDITMODE of the table huGridProperties

Name	HU_GRIDCOL_EDITMODE
Code	HU_GRIDCOL_EDITMODE
Data Type	int
Mandatory	TRUE

Standard check of column HU_GRIDCOL_EDITMODE of table huGridProperties

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column HU_GRIDCOL_EDITMODE of table huGridProperties

CKC_HU_GRIDCOL_EDITMO_HUGRIDPR

Column HU_GRIDCOL_TXTCOLOR of table huGridProperties

Card of the column HU_GRIDCOL_TXTCOLOR of the table huGridProperties

Name	HU_GRIDCOL_TXTCOLOR
Code	HU_GRIDCOL_TXTCOLOR
Data Type	int
Mandatory	TRUE

Standard check of column HU_GRIDCOL_TXTCOLOR of table huGridProperties

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column HU_GRIDCOL_TXTCOLOR of table huGridProperties

CKC_HU_GRIDCOL_TXTCOL_HUGRIDPR

Column HU_GRIDCOL_WIDTH of table huGridProperties

Card of the column HU_GRIDCOL_WIDTH of the table huGridProperties

Name	HU_GRIDCOL_WIDTH
Code	HU_GRIDCOL_WIDTH
Data Type	float
Mandatory	TRUE

Standard check of column HU_GRIDCOL_WIDTH of table huGridProperties

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column HU_GRIDCOL_WIDTH of table huGridProperties

CKC_HU_GRIDCOL_WIDTH_HUGRIDPR

Column HU_GRIDCOL_CONTROL of table huGridProperties

Card of the column HU_GRIDCOL_CONTROL of the table huGridProperties

Name	HU_GRIDCOL_CONTROL
Code	HU_GRIDCOL_CONTROL
Data Type	int
Mandatory	TRUE

Standard check of column HU_GRIDCOL_CONTROL of table huGridProperties

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column HU_GRIDCOL_CONTROL of table huGridProperties

CKC_HU_GRIDCOL_CONTRO_HUGRIDPR

Column HU_GRIDCOL_INDEX of table huGridProperties

Card of the column HU_GRIDCOL_INDEX of the table huGridProperties

Name	HU_GRIDCOL_INDEX
Code	HU_GRIDCOL_INDEX
Data Type	int
Mandatory	TRUE

Standard check of column HU_GRIDCOL_INDEX of table huGridProperties

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column HU_GRIDCOL_INDEX of table huGridProperties

CKC_HU_GRIDCOL_INDEX_HUGRIDPR

Column HU_GRIDCOL_INTNAME of table huGridProperties

Card of the column HU_GRIDCOL_INTNAME of the table huGridProperties

Name	HU_GRIDCOL_INTNAME
Code	HU_GRIDCOL_INTNAME
Data Type	varchar(50)
Mandatory	TRUE

Standard check of column HU_GRIDCOL_INTNAME of table huGridProperties

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column HU_GRIDCOL_INTNAME of table huGridProperties

CKC_HU_GRIDCOL_INTNAM_HUGRIDPR

List of diagrams containing table huGridProperties

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huGridProperties

```
if exists (select 1
          from  sysobjects
         where  id = object_id('huGridProperties')
          and   type = 'U')
   drop table huGridProperties
go


/*==============================================================*/
/* Table: huGridProperties                                      */
/*==============================================================*/
create table huGridProperties (
```

```
GridName            varchar(50)         not null,
HU_GRIDCOL_EXTNAME   varchar(50)         not null,
HU_GRIDCOL_TYPE      int                 not null,
HU_GRIDCOL_EDITMODE  int                 not null,
HU_GRIDCOL_TXTCOLOR  int                 not null,
HU_GRIDCOL_WIDTH     float               not null,
HU_GRIDCOL_CONTROL   int                 not null,
HU_GRIDCOL_INDEX     int                 not null,
HU_GRIDCOL_INTNAME   varchar(50)         not null
)
go
```

Table huHazardMapWindSpeed

Card of the table huHazardMapWindSpeed

Name	huHazardMapWindSpeed
Code	huHazardMapWindSpeed
DBMS	Microsoft SQL Server 2000

Constraint name of table huHazardMapWindSpeed

CKT_HUHAZARDMAPWINDSPEED

Column list of the table huHazardMapWindSpeed

Name	Code
Tract	Tract
f1000yr	f1000yr
f100yr	f100yr
f10yr	f10yr
f200yr	f200yr
f20yr	f20yr
f500yr	f500yr
f50yr	f50yr

Column Tract of table huHazardMapWindSpeed

Card of the column Tract of the table huHazardMapWindSpeed

Name	Tract
Code	Tract
Data Type	char(11)
Mandatory	TRUE

Standard check of column Tract of table huHazardMapWindSpeed

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Tract of table huHazardMapWindSpeed

CKC_TRACT_HUHAZARD

Column f10yr of table huHazardMapWindSpeed

Card of the column f10yr of the table huHazardMapWindSpeed

Name	f10yr
Code	f10yr
Data Type	real
Mandatory	FALSE

Standard check of column f10yr of table huHazardMapWindSpeed

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column f10yr of table huHazardMapWindSpeed

CKC_F10YR_HUHAZARD

Column f20yr of table huHazardMapWindSpeed

Card of the column f20yr of the table huHazardMapWindSpeed

Name	f20yr
Code	f20yr
Data Type	real
Mandatory	FALSE

Standard check of column f20yr of table huHazardMapWindSpeed

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column f20yr of table huHazardMapWindSpeed

CKC_F20YR_HUHAZARD

Column f50yr of table huHazardMapWindSpeed

Card of the column f50yr of the table huHazardMapWindSpeed

Name	f50yr
Code	f50yr
Data Type	real
Mandatory	FALSE

Standard check of column f50yr of table huHazardMapWindSpeed

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column f50yr of table huHazardMapWindSpeed

CKC_F50YR_HUHAZARD

Column f100yr of table huHazardMapWindSpeed

Card of the column f100yr of the table huHazardMapWindSpeed

Name	f100yr
Code	f100yr
Data Type	real
Mandatory	FALSE

Standard check of column f100yr of table huHazardMapWindSpeed

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column f100yr of table huHazardMapWindSpeed

CKC_F100YR_HUHAZARD

Column f200yr of table huHazardMapWindSpeed

Card of the column f200yr of the table huHazardMapWindSpeed

Name	f200yr
Code	f200yr
Data Type	real
Mandatory	FALSE

Standard check of column f200yr of table huHazardMapWindSpeed

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column f200yr of table huHazardMapWindSpeed

CKC_F200YR_HUHAZARD

Column f500yr of table huHazardMapWindSpeed

Card of the column f500yr of the table huHazardMapWindSpeed

Name	f500yr
Code	f500yr
Data Type	real
Mandatory	FALSE

Standard check of column f500yr of table huHazardMapWindSpeed

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column f500yr of table huHazardMapWindSpeed

CKC_F500YR_HUHAZARD

Column f1000yr of table huHazardMapWindSpeed

Card of the column f1000yr of the table huHazardMapWindSpeed

Name	f1000yr
Code	f1000yr
Data Type	real
Mandatory	FALSE

Standard check of column f1000yr of table huHazardMapWindSpeed

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column f1000yr of table huHazardMapWindSpeed

CKC_F1000YR_HUHAZARD

Key list of the table huHazardMapWindSpeed

Name	Code
idtHazardMapWSKey	idtHazardMapWSKey

Key idtHazardMapWSKey of table huHazardMapWindSpeed

Card of the key idtHazardMapWSKey of the table huHazardMapWindSpeed

Name	idtHazardMapWSKey
Code	idtHazardMapWSKey
Table	huHazardMapWindSpeed

Column list of the key idtHazardMapWSKey

Name	Code
Tract	Tract

Code preview of idtHazardMapWSKey

```
alter table huHazardMapWindSpeed
  drop constraint PK_HUHAZARDMAPWINDSPEED
go
```

Index list of the table huHazardMapWindSpeed

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
idtTract_HazardMapWS	idtTract_HazardMapWS	TRUE	FALSE	TRUE	FALSE	FALSE

Index idtTract_HazardMapWS of table huHazardMapWindSpeed

Card of the index idtTract_HazardMapWS of the table huHazardMapWindSpeed

Name	idtTract_HazardMapWS
Code	idtTract_HazardMapWS
Unique	TRUE
Cluster	FALSE
Primary	TRUE
Foreign Key	FALSE
Alternate Key	FALSE
Table	huHazardMapWindSpeed

Column list of the index idtTract_HazardMapWS

Name	Code	Sort
Tract	Tract	Ascending

Code preview of idtTract_HazardMapWS

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huHazardMapWindSpeed

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huHazardMapWindSpeed

```
alter table huHazardMapWindSpeed
   drop constraint FK_HURPWINDDFLT_RLNTRACT__HZTRACT
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huHazardMapWindSpeed')
            and   type = 'U')
   drop table huHazardMapWindSpeed
go


/*==============================================================*/
/* Table: huHazardMapWindSpeed                                  */
/*==============================================================*/
create table huHazardMapWindSpeed (
Tract               char(11)            not null,
f10yr               real                null,
f20yr               real                null,
f50yr               real                null,
f100yr              real                null,
f200yr              real                null,
f500yr              real                null,
f1000yr             real                null,
constraint PK_HUHAZARDMAPWINDSPEED primary key  (Tract)
)
go


alter table huHazardMapWindSpeed
   add constraint FK_HURPWINDDFLT_RLNTRACT__HZTRACT foreign key (Tract)
      references hzTract (Tract)
go
```

Table huBldgEconRTBusInterruption

Card of the table huBldgEconRTBusInterruption

Name	huBldgEconRTBusInterruption
Code	huBldgEconRTBusInterruption
DBMS	Microsoft SQL Server 2000

Constraint name of table huBldgEconRTBusInterruption

CKT_HUBLDGECONRTBUSINTERRUPTIO

Column list of the table huBldgEconRTBusInterruption

Name	Code
CompleteDS	CompleteDS
MinorDS	MinorDS
ModerateDS	ModerateDS
None	None
Occupancy	Occupancy
SevereDS	SevereDS

Column Occupancy of table huBldgEconRTBusInterruption

Card of the column Occupancy of the table huBldgEconRTBusInterruption

Name	Occupancy
Code	Occupancy
Data Type	char(5)
Mandatory	TRUE

Standard check of column Occupancy of table huBldgEconRTBusInterruption

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Occupancy of table huBldgEconRTBusInterruption

CKC_OCCUPANCY_HUBLDGEC

Column None of table huBldgEconRTBusInterruption

Card of the column None of the table huBldgEconRTBusInterruption

Name	None
Code	None
Data Type	real
Mandatory	FALSE

Standard check of column None of table huBldgEconRTBusInterruption

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column None of table huBldgEconRTBusInterruption

CKC_NONE_HUBLDGEC

Column MinorDS of table huBldgEconRTBusInterruption

Card of the column MinorDS of the table huBldgEconRTBusInterruption

Name	MinorDS
Code	MinorDS
Data Type	real
Mandatory	FALSE

Standard check of column MinorDS of table huBldgEconRTBusInterruption

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MinorDS of table huBldgEconRTBusInterruption

CKC_MINORDS_HUBLDGEC

Column ModerateDS of table huBldgEconRTBusInterruption

Card of the column ModerateDS of the table huBldgEconRTBusInterruption

Name	ModerateDS
Code	ModerateDS
Data Type	real
Mandatory	FALSE

Standard check of column ModerateDS of table huBldgEconRTBusInterruption

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column ModerateDS of table huBldgEconRTBusInterruption

CKC_MODERATEDS_HUBLDGEC

Column SevereDS of table huBldgEconRTBusInterruption

Card of the column SevereDS of the table huBldgEconRTBusInterruption

Name	SevereDS
Code	SevereDS
Data Type	real
Mandatory	FALSE

Standard check of column SevereDS of table huBldgEconRTBusInterruption

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SevereDS of table huBldgEconRTBusInterruption

CKC_SEVEREDS_HUBLDGEC

Column CompleteDS of table huBldgEconRTBusInterruption

Card of the column CompleteDS of the table huBldgEconRTBusInterruption

Name	CompleteDS
Code	CompleteDS
Data Type	real
Mandatory	FALSE

Standard check of column CompleteDS of table huBldgEconRTBusInterruption

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CompleteDS of table huBldgEconRTBusInterruption

CKC_COMPLETEDS_HUBLDGEC

Key list of the table huBldgEconRTBusInterruption

Name	Code
PKOccupancy	PKOccupancy

Key PKOccupancy of table huBldgEconRTBusInterruption

Card of the key PKOccupancy of the table huBldgEconRTBusInterruption

Name	PKOccupancy
Code	PKOccupancy
Table	huBldgEconRTBusInterruption

Column list of the key PKOccupancy

Name	Code
Occupancy	Occupancy

Code preview of PKOccupancy

```
alter table huBldgEconRTBusInterruption
   drop constraint PK_HUBLDGECONRTBUSINTERRUPTION
go
```

Index list of the table huBldgEconRTBusInterruption

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
idtOccupancy	idtOccupancy	TRUE	FALSE	TRUE	FALSE	FALSE

Index idtOccupancy of table huBldgEconRTBusInterruption

Card of the index idtOccupancy of the table huBldgEconRTBusInterruption

Name	idtOccupancy
Code	idtOccupancy
Unique	TRUE
Cluster	FALSE
Primary	TRUE
Foreign Key	FALSE
Alternate Key	FALSE
Table	huBldgEconRTBusInterruption

Column list of the index idtOccupancy

Name	Code	Sort
Occupancy	Occupancy	Ascending

Code preview of idtOccupancy

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huBldgEconRTBusInterruption

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huBldgEconRTBusInterruption

```
alter table huBldgEconRTBusInterruption
   drop constraint FK_HUBLDGEC_RLNOCC_BE_BUSINT
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huBldgEconRTBusInterruption')
            and   type = 'U')
   drop table huBldgEconRTBusInterruption
go


/*==============================================================*/
/* Table: huBldgEconRTBusInterruption                           */
/*==============================================================*/
create table huBldgEconRTBusInterruption (
Occupancy           char(5)             not null,
None                real                null,
MinorDS             real                null,
ModerateDS          real                null,
SevereDS            real                null,
CompleteDS          real                null,
constraint PK_HUBLDGECONRTBUSINTERRUPTION primary key  (Occupancy)
)
go


alter table huBldgEconRTBusInterruption
   add constraint FK_HUBLDGEC_RLNOCC_BE_BUSINT foreign key (Occupancy)
      references clOccupancy (Occupancy)
go
```

Table huBldgEconILRentalCost

Card of the table huBldgEconILRentalCost

Name	huBldgEconILRentalCost
Code	huBldgEconILRentalCost
DBMS	Microsoft SQL Server 2000

Constraint name of table huBldgEconILRentalCost

CKT_HUBLDGECONILRENTALCOST

Column list of the table huBldgEconILRentalCost

Name	Code
DisruptionCost	DisruptionCost
Occupancy	Occupancy
RentalCostDay	RentalCostDay
RentalCostMonth	RentalCostMonth

Column Occupancy of table huBldgEconILRentalCost

Card of the column Occupancy of the table huBldgEconILRentalCost

Name	Occupancy
Code	Occupancy
Data Type	char(5)
Mandatory	TRUE

Standard check of column Occupancy of table huBldgEconILRentalCost

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Occupancy of table huBldgEconILRentalCost

CKC_OCCUPANCY_HUBLDGEC

Column RentalCostMonth of table huBldgEconILRentalCost

Card of the column RentalCostMonth of the table huBldgEconILRentalCost

Name	RentalCostMonth
Code	RentalCostMonth
Data Type	real
Mandatory	FALSE

Standard check of column RentalCostMonth of table huBldgEconILRentalCost

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column RentalCostMonth of table huBldgEconILRentalCost

CKC_RENTALCOSTMONTH_HUBLDGEC

Column RentalCostDay of table huBldgEconILRentalCost

Card of the column RentalCostDay of the table huBldgEconILRentalCost

Name	RentalCostDay
Code	RentalCostDay
Data Type	real
Mandatory	FALSE

Standard check of column RentalCostDay of table huBldgEconILRentalCost

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column RentalCostDay of table huBldgEconILRentalCost

CKC_RENTALCOSTDAY_HUBLDGEC

Column DisruptionCost of table huBldgEconILRentalCost

Card of the column DisruptionCost of the table huBldgEconILRentalCost

Name	DisruptionCost
Code	DisruptionCost
Data Type	real
Mandatory	FALSE

Standard check of column DisruptionCost of table huBldgEconILRentalCost

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column DisruptionCost of table huBldgEconILRentalCost

CKC_DISRUPTIONCOST_HUBLDGEC

Key list of the table huBldgEconILRentalCost

Name	Code
PKOccupancy	PKOccupancy

Key PKOccupancy of table huBldgEconILRentalCost

Card of the key PKOccupancy of the table huBldgEconILRentalCost

Name	PKOccupancy
Code	PKOccupancy
Table	huBldgEconILRentalCost

Column list of the key PKOccupancy

Name	Code
Occupancy	Occupancy

Code preview of PKOccupancy

```
alter table huBldgEconILRentalCost
   drop constraint PK_HUBLDGECONILRENTALCOST
go
```

Index list of the table huBldgEconILRentalCost

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
idtOccupancy	idtOccupancy	TRUE	FALSE	TRUE	FALSE	FALSE

Index idtOccupancy of table huBldgEconILRentalCost

Card of the index idtOccupancy of the table huBldgEconILRentalCost

Name	idtOccupancy
Code	idtOccupancy
Unique	TRUE
Cluster	FALSE
Primary	TRUE
Foreign Key	FALSE
Alternate Key	FALSE
Table	huBldgEconILRentalCost

Column list of the index idtOccupancy

Name	Code	Sort
Occupancy	Occupancy	Ascending

Code preview of idtOccupancy

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huBldgEconILRentalCost

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huBldgEconILRentalCost

```
alter table huBldgEconILRentalCost
   drop constraint FK_HUBLDGEC_RLNOCC_BE_RENTALCOST
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huBldgEconILRentalCost')
            and   type = 'U')
   drop table huBldgEconILRentalCost
go


/*==============================================================*/
/* Table: huBldgEconILRentalCost                                */
/*==============================================================*/
create table huBldgEconILRentalCost (
Occupancy            char(5)              not null,
RentalCostMonth      real                 null,
RentalCostDay        real                 null,
DisruptionCost       real                 null,
constraint PK_HUBLDGECONILRENTALCOST primary key  (Occupancy)
)
go


alter table huBldgEconILRentalCost
   add constraint FK_HUBLDGEC_RLNOCC_BE_RENTALCOST foreign key (Occupancy)
      references clOccupancy (Occupancy)
go
```

Table huBldgEconILOwnerOcc

Card of the table huBldgEconILOwnerOcc

Name	huBldgEconILOwnerOcc
Code	huBldgEconILOwnerOcc
DBMS	Microsoft SQL Server 2000

Constraint name of table huBldgEconILOwnerOcc

CKT_HUBLDGECONILOWNEROCC

Column list of the table huBldgEconILOwnerOcc

Name	Code
Occupancy	Occupancy
OwnerOcc	OwnerOcc

Column Occupancy of table huBldgEconILOwnerOcc

Card of the column Occupancy of the table huBldgEconILOwnerOcc

Name	Occupancy
Code	Occupancy
Data Type	char(5)
Mandatory	TRUE

Standard check of column Occupancy of table huBldgEconILOwnerOcc

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Occupancy of table huBldgEconILOwnerOcc

CKC_OCCUPANCY_HUBLDGEC

Column OwnerOcc of table huBldgEconILOwnerOcc

Card of the column OwnerOcc of the table huBldgEconILOwnerOcc

Name	OwnerOcc
Code	OwnerOcc
Data Type	real
Mandatory	FALSE

Standard check of column OwnerOcc of table huBldgEconILOwnerOcc

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column OwnerOcc of table huBldgEconILOwnerOcc

CKC_OWNEROCC_HUBLDGEC

Key list of the table huBldgEconILOwnerOcc

Name	Code
PKOccupancy	PKOccupancy

Key PKOccupancy of table huBldgEconILOwnerOcc

Card of the key PKOccupancy of the table huBldgEconILOwnerOcc

Name	PKOccupancy
Code	PKOccupancy
Table	huBldgEconILOwnerOcc

Column list of the key PKOccupancy

Name	Code
Occupancy	Occupancy

Code preview of PKOccupancy

```
alter table huBldgEconILOwnerOcc
  drop constraint PK_HUBLDGECONILOWNEROCC
go
```

Index list of the table huBldgEconILOwnerOcc

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
idtOccupancy	idtOccupancy	TRUE	FALSE	TRUE	FALSE	FALSE

Index idtOccupancy of table huBldgEconILOwnerOcc

Card of the index idtOccupancy of the table huBldgEconILOwnerOcc

Name	idtOccupancy
Code	idtOccupancy
Unique	TRUE
Cluster	FALSE
Primary	TRUE
Foreign Key	FALSE
Alternate Key	FALSE
Table	huBldgEconILOwnerOcc

Column list of the index idtOccupancy

Name	Code	Sort
Occupancy	Occupancy	Ascending

Code preview of idtOccupancy

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huBldgEconILOwnerOcc

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huBldgEconILOwnerOcc

```
alter table huBldgEconILOwnerOcc
   drop constraint FK_HUBLDGEC_RLNOCC_BE_OWNEROCC
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huBldgEconILOwnerOcc')
            and   type = 'U')
   drop table huBldgEconILOwnerOcc
go


/*==============================================================*/
/* Table: huBldgEconILOwnerOcc                                  */
/*==============================================================*/
create table huBldgEconILOwnerOcc (
Occupancy           char(5)             not null,
OwnerOcc            real                null,
constraint PK_HUBLDGECONILOWNEROCC primary key  (Occupancy)
)
go


alter table huBldgEconILOwnerOcc
   add constraint FK_HUBLDGEC_RLNOCC_BE_OWNEROCC foreign key (Occupancy)
      references clOccupancy (Occupancy)
go
```

Table huBldgEconILWageCapIncome

Card of the table huBldgEconILWageCapIncome

Name	huBldgEconILWageCapIncome
Code	huBldgEconILWageCapIncome
DBMS	Microsoft SQL Server 2000

Constraint name of table huBldgEconILWageCapIncome

CKT_HUBLDGECONILWAGECAPINCOME

Column list of the table huBldgEconILWageCapIncome

Name	Code
Employment	Employment
IncomeDay	IncomeDay
IncomeYear	IncomeYear
Occupancy	Occupancy
OutputDay	OutputDay
WageDay	WageDay

Column Occupancy of table huBldgEconILWageCapIncome

Card of the column Occupancy of the table huBldgEconILWageCapIncome

Name	Occupancy
Code	Occupancy
Data Type	char(5)
Mandatory	TRUE

Standard check of column Occupancy of table huBldgEconILWageCapIncome

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Occupancy of table huBldgEconILWageCapIncome

CKC_OCCUPANCY_HUBLDGEC

Column IncomeYear of table huBldgEconILWageCapIncome

Card of the column IncomeYear of the table huBldgEconILWageCapIncome

Name	IncomeYear
Code	IncomeYear
Data Type	real
Mandatory	FALSE

Standard check of column IncomeYear of table huBldgEconILWageCapIncome

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column IncomeYear of table huBldgEconILWageCapIncome

CKC_INCOMEYEAR_HUBLDGEC

Column IncomeDay of table huBldgEconILWageCapIncome

Card of the column IncomeDay of the table huBldgEconILWageCapIncome

Name	IncomeDay
Code	IncomeDay
Data Type	real
Mandatory	FALSE

Standard check of column IncomeDay of table huBldgEconILWageCapIncome

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column IncomeDay of table huBldgEconILWageCapIncome

CKC_INCOMEDAY_HUBLDGEC

Column WageDay of table huBldgEconILWageCapIncome

Card of the column WageDay of the table huBldgEconILWageCapIncome

Name	WageDay
Code	WageDay
Data Type	real
Mandatory	FALSE

Standard check of column WageDay of table huBldgEconILWageCapIncome

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WageDay of table huBldgEconILWageCapIncome

CKC_WAGEDAY_HUBLDGEC

Column Employment of table huBldgEconILWageCapIncome

Card of the column Employment of the table huBldgEconILWageCapIncome

Name	Employment
Code	Employment
Data Type	real
Mandatory	FALSE

Standard check of column Employment of table huBldgEconILWageCapIncome

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Employment of table huBldgEconILWageCapIncome

CKC_EMPLOYMENT_HUBLDGEC

Column OutputDay of table huBldgEconILWageCapIncome

Card of the column OutputDay of the table huBldgEconILWageCapIncome

Name	OutputDay
Code	OutputDay
Data Type	real
Mandatory	FALSE

Standard check of column OutputDay of table huBldgEconILWageCapIncome

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column OutputDay of table huBldgEconILWageCapIncome

CKC_OUTPUTDAY_HUBLDGEC

Key list of the table huBldgEconILWageCapIncome

Name	Code
PKOccupancy	PKOccupancy

Key PKOccupancy of table huBldgEconILWageCapIncome

Card of the key PKOccupancy of the table huBldgEconILWageCapIncome

Name	PKOccupancy
Code	PKOccupancy
Table	huBldgEconILWageCapIncome

Column list of the key PKOccupancy

Name	Code
Occupancy	Occupancy

Code preview of PKOccupancy

```
alter table huBldgEconILWageCapIncome
   drop constraint PK_HUBLDGECONILWAGECAPINCOME
go
```

Index list of the table huBldgEconILWageCapIncome

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
idtOccupancy	idtOccupancy	TRUE	FALSE	TRUE	FALSE	FALSE

Index idtOccupancy of table huBldgEconILWageCapIncome

Card of the index idtOccupancy of the table huBldgEconILWageCapIncome

Name	idtOccupancy
Code	idtOccupancy
Unique	TRUE
Cluster	FALSE
Primary	TRUE
Foreign Key	FALSE
Alternate Key	FALSE
Table	huBldgEconILWageCapIncome

Column list of the index idtOccupancy

Name	Code	Sort
Occupancy	Occupancy	Ascending

Code preview of idtOccupancy

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huBldgEconILWageCapIncome

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huBldgEconILWageCapIncome

```
alter table huBldgEconILWageCapIncome
   drop constraint FK_HUBLDGEC_RLNOCC_BE_WAGECAP
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huBldgEconILWageCapIncome')
            and   type = 'U')
   drop table huBldgEconILWageCapIncome
go


/*==============================================================*/
/* Table: huBldgEconILWageCapIncome                             */
/*==============================================================*/
create table huBldgEconILWageCapIncome (
Occupancy           char(5)             not null,
IncomeYear          real                null,
IncomeDay           real                null,
WageDay             real                null,
Employment          real                null,
OutputDay           real                null,
constraint PK_HUBLDGECONILWAGECAPINCOME primary key  (Occupancy)
)
go


alter table huBldgEconILWageCapIncome
   add constraint FK_HUBLDGEC_RLNOCC_BE_WAGECAP foreign key (Occupancy)
      references clOccupancy (Occupancy)
go
```

Table huBldgEconILRecaptureFactors

Card of the table huBldgEconILRecaptureFactors

Name	huBldgEconILRecaptureFactors
Code	huBldgEconILRecaptureFactors
DBMS	Microsoft SQL Server 2000

Constraint name of table huBldgEconILRecaptureFactors

CKT_HUBLDGECONILRECAPTUREFACTO

Column list of the table huBldgEconILRecaptureFactors

Name	Code
Employment	Employment
Income	Income
Occupancy	Occupancy
OutputRecapture	OutputRecapture
Wage	Wage

Column Occupancy of table huBldgEconILRecaptureFactors

Card of the column Occupancy of the table huBldgEconILRecaptureFactors

Name	Occupancy
Code	Occupancy
Data Type	char(5)
Mandatory	TRUE

Standard check of column Occupancy of table huBldgEconILRecaptureFactors

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Occupancy of table huBldgEconILRecaptureFactors

CKC_OCCUPANCY_HUBLDGEC

Column Wage of table huBldgEconILRecaptureFactors

Card of the column Wage of the table huBldgEconILRecaptureFactors

Name	Wage
Code	Wage
Data Type	real
Mandatory	FALSE

Standard check of column Wage of table huBldgEconILRecaptureFactors

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Wage of table huBldgEconILRecaptureFactors

CKC_WAGE_HUBLDGEC

Column Employment of table huBldgEconILRecaptureFactors

Card of the column Employment of the table huBldgEconILRecaptureFactors

Name	Employment
Code	Employment
Data Type	real
Mandatory	FALSE

Standard check of column Employment of table huBldgEconILRecaptureFactors

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Employment of table huBldgEconILRecaptureFactors

CKC_EMPLOYMENT_HUBLDGEC

Column Income of table huBldgEconILRecaptureFactors

Card of the column Income of the table huBldgEconILRecaptureFactors

Name	Income
Code	Income
Data Type	real
Mandatory	FALSE

Standard check of column Income of table huBldgEconILRecaptureFactors

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Income of table huBldgEconILRecaptureFactors

CKC_INCOME_HUBLDGEC

Column OutputRecapture of table huBldgEconILRecaptureFactors

Card of the column OutputRecapture of the table huBldgEconILRecaptureFactors

Name	OutputRecapture
Code	OutputRecapture
Data Type	real
Mandatory	FALSE

Standard check of column OutputRecapture of table huBldgEconILRecaptureFactors

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column OutputRecapture of table huBldgEconILRecaptureFactors

CKC_OUTPUTRECAPTURE_HUBLDGEC

Key list of the table huBldgEconILRecaptureFactors

Name	Code
PKOccupancy	PKOccupancy

Key PKOccupancy of table huBldgEconILRecaptureFactors

Card of the key PKOccupancy of the table huBldgEconILRecaptureFactors

Name	PKOccupancy
Code	PKOccupancy
Table	huBldgEconILRecaptureFactors

Column list of the key PKOccupancy

Name	Code
Occupancy	Occupancy

Code preview of PKOccupancy

```
alter table huBldgEconILRecaptureFactors
   drop constraint PK_HUBLDGECONILRECAPTUREFACTOR
go
```

Index list of the table huBldgEconILRecaptureFactors

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
idtOccupancy	idtOccupancy	TRUE	FALSE	TRUE	FALSE	FALSE

Index idtOccupancy of table huBldgEconILRecaptureFactors

Card of the index idtOccupancy of the table huBldgEconILRecaptureFactors

Name	idtOccupancy
Code	idtOccupancy
Unique	TRUE
Cluster	FALSE
Primary	TRUE
Foreign Key	FALSE
Alternate Key	FALSE
Table	huBldgEconILRecaptureFactors

Column list of the index idtOccupancy

Name	Code	Sort
Occupancy	Occupancy	Ascending

Code preview of idtOccupancy

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huBldgEconILRecaptureFactors

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huBldgEconILRecaptureFactors

```
alter table huBldgEconILRecaptureFactors
   drop constraint FK_HUBLDGEC_RLNOCC_BE_RECAPTURE
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huBldgEconILRecaptureFactors')
            and   type = 'U')
   drop table huBldgEconILRecaptureFactors
go


/*==============================================================*/
/* Table: huBldgEconILRecaptureFactors                          */
/*==============================================================*/
create table huBldgEconILRecaptureFactors (
```

```
Occupancy          char(5)          not null,
Wage               real             null,
Employment         real             null,
Income             real             null,
OutputRecapture    real             null,
constraint PK_HUBLDGECONILRECAPTUREFACTOR primary key  (Occupancy)
)
go


alter table huBldgEconILRecaptureFactors
  add constraint FK_HUBLDGEC_RLNOCC_BE_RECAPTURE foreign key (Occupancy)
    references clOccupancy (Occupancy)
go
```

Table huShelterDSProb

Card of the table huShelterDSProb

Name	huShelterDSProb
Code	huShelterDSProb
DBMS	Microsoft SQL Server 2000

Constraint name of table huShelterDSProb

CKT_HUSHELTERDSPROB

Column list of the table huShelterDSProb

Name	Code
Description	Description
Value	Value
WeightFactor	WeightFactor

Column WeightFactor of table huShelterDSProb

Card of the column WeightFactor of the table huShelterDSProb

Name	WeightFactor
Code	WeightFactor
Data Type	char(5)
Mandatory	TRUE

Standard check of column WeightFactor of table huShelterDSProb

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WeightFactor of table huShelterDSProb

CKC_WEIGHTFACTOR_HUSHELTE

Column Description of table huShelterDSProb

Card of the column Description of the table huShelterDSProb

Name	Description
Code	Description
Data Type	varchar(100)
Mandatory	FALSE

Standard check of column Description of table huShelterDSProb

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Description of table huShelterDSProb

CKC_DESCRIPTION_HUSHELTE

Column Value of table huShelterDSProb

Card of the column Value of the table huShelterDSProb

Name	Value
Code	Value
Data Type	real
Mandatory	FALSE

Standard check of column Value of table huShelterDSProb

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Value of table huShelterDSProb

CKC_VALUE_HUSHELTE

Key list of the table huShelterDSProb

Name	Code
PKWeightFactor	PKWeightFactor

Key PKWeightFactor of table huShelterDSProb

Card of the key PKWeightFactor of the table huShelterDSProb

Name	PKWeightFactor
Code	PKWeightFactor
Table	huShelterDSProb

Column list of the key PKWeightFactor

Name	Code
WeightFactor	WeightFactor

Code preview of PKWeightFactor

```
alter table huShelterDSProb
   drop constraint PK_HUSHELTERDSPROB
go
```

Index list of the table huShelterDSProb

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
idtWeightFactor	idtWeightFactor	TRUE	FALSE	TRUE	FALSE	FALSE

Index idtWeightFactor of table huShelterDSProb

Card of the index idtWeightFactor of the table huShelterDSProb

Name	idtWeightFactor
Code	idtWeightFactor
Unique	TRUE
Cluster	FALSE
Primary	TRUE
Foreign Key	FALSE
Alternate Key	FALSE
Table	huShelterDSProb

Column list of the index idtWeightFactor

Name	Code	Sort
WeightFactor	WeightFactor	Ascending

Code preview of idtWeightFactor

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huShelterDSProb

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huShelterDSProb

```
if exists (select 1
          from  sysobjects
         where  id = object_id('huShelterDSProb')
          and   type = 'U')
```

```
   drop table huShelterDSProb
go


/*==============================================================*/
/* Table: huShelterDSProb                                       */
/*==============================================================*/
create table huShelterDSProb (
WeightFactor        char(5)             not null,
Description         varchar(100)        null,
Value               real                null,
constraint PK_HUSHELTERDSPROB primary key  (WeightFactor)
)
go
```

Table huShelterCategoryWeights

Card of the table huShelterCategoryWeights

Name	huShelterCategoryWeights
Code	huShelterCategoryWeights
DBMS	Microsoft SQL Server 2000

Constraint name of table huShelterCategoryWeights

CKT_HUSHELTERCATEGORYWEIGHTS

Column list of the table huShelterCategoryWeights

Name	Code
Class	Class
Description	Description
Value	Value

Column Class of table huShelterCategoryWeights

Card of the column Class of the table huShelterCategoryWeights

Name	Class
Code	Class
Data Type	char(5)
Mandatory	TRUE

Standard check of column Class of table huShelterCategoryWeights

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Class of table huShelterCategoryWeights

CKC_CLASS_HUSHELTE

Column Description of table huShelterCategoryWeights

Card of the column Description of the table huShelterCategoryWeights

Name	Description
Code	Description
Data Type	varchar(100)
Mandatory	FALSE

Standard check of column Description of table huShelterCategoryWeights

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Description of table huShelterCategoryWeights

CKC_DESCRIPTION_HUSHELTE

Column Value of table huShelterCategoryWeights

Card of the column Value of the table huShelterCategoryWeights

Name	Value
Code	Value
Data Type	real
Mandatory	FALSE

Standard check of column Value of table huShelterCategoryWeights

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Value of table huShelterCategoryWeights

CKC_VALUE_HUSHELTE

Key list of the table huShelterCategoryWeights

Name	Code
PKClass	PKClass

Key PKClass of table huShelterCategoryWeights

Card of the key PKClass of the table huShelterCategoryWeights

Name	PKClass
Code	PKClass
Table	huShelterCategoryWeights

Column list of the key PKClass

Name	Code
Class	Class

Code preview of PKClass

```
alter table huShelterCategoryWeights
   drop constraint PK_HUSHELTERCATEGORYWEIGHTS
go
```

Index list of the table huShelterCategoryWeights

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
idtClass	idtClass	TRUE	FALSE	TRUE	FALSE	FALSE

Index idtClass of table huShelterCategoryWeights

Card of the index idtClass of the table huShelterCategoryWeights

Name	idtClass
Code	idtClass
Unique	TRUE
Cluster	FALSE
Primary	TRUE
Foreign Key	FALSE
Alternate Key	FALSE
Table	huShelterCategoryWeights

Column list of the index idtClass

Name	Code	Sort
Class	Class	Ascending

Code preview of idtClass

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huShelterCategoryWeights

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huShelterCategoryWeights

```
if exists (select 1
          from  sysobjects
         where  id = object_id('huShelterCategoryWeights')
          and   type = 'U')
   drop table huShelterCategoryWeights
```

```
go

/*==============================================================*/
/* Table: huShelterCategoryWeights                              */
/*==============================================================*/
create table huShelterCategoryWeights (
Class              char(5)            not null,
Description        varchar(100)       null,
Value              real               null,
constraint PK_HUSHELTERCATEGORYWEIGHTS primary key  (Class)
)
go
```

Table huShelterRelModFactors

Card of the table huShelterRelModFactors

Name	huShelterRelModFactors
Code	huShelterRelModFactors
DBMS	Microsoft SQL Server 2000

Constraint name of table huShelterRelModFactors

CKT_HUSHELTERRELMODFACTORS

Column list of the table huShelterRelModFactors

Name	Code
Class	Class
Description	Description
Value	Value

Column Class of table huShelterRelModFactors

Card of the column Class of the table huShelterRelModFactors

Name	Class
Code	Class
Data Type	char(5)
Mandatory	TRUE

Standard check of column Class of table huShelterRelModFactors

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Class of table huShelterRelModFactors

CKC_CLASS_HUSHELTE

Column Description of table huShelterRelModFactors

Card of the column Description of the table huShelterRelModFactors

Name	Description
Code	Description
Data Type	varchar(100)
Mandatory	FALSE

Standard check of column Description of table huShelterRelModFactors

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Description of table huShelterRelModFactors

CKC_DESCRIPTION_HUSHELTE

Column Value of table huShelterRelModFactors

Card of the column Value of the table huShelterRelModFactors

Name	Value
Code	Value
Data Type	real
Mandatory	FALSE

Standard check of column Value of table huShelterRelModFactors

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Value of table huShelterRelModFactors

CKC_VALUE_HUSHELTE

Key list of the table huShelterRelModFactors

Name	Code
PKClass	PKClass

Key PKClass of table huShelterRelModFactors

Card of the key PKClass of the table huShelterRelModFactors

Name	PKClass
Code	PKClass
Table	huShelterRelModFactors

Column list of the key PKClass

Name	Code
Class	Class

Code preview of PKClass

```
alter table huShelterRelModFactors
   drop constraint PK_HUSHELTERRELMODFACTORS
go
```

Index list of the table huShelterRelModFactors

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
idtClass	idtClass	TRUE	FALSE	TRUE	FALSE	FALSE

Index idtClass of table huShelterRelModFactors

Card of the index idtClass of the table huShelterRelModFactors

Name	idtClass
Code	idtClass
Unique	TRUE
Cluster	FALSE
Primary	TRUE
Foreign Key	FALSE
Alternate Key	FALSE
Table	huShelterRelModFactors

Column list of the index idtClass

Name	Code	Sort
Class	Class	Ascending

Code preview of idtClass

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huShelterRelModFactors

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huShelterRelModFactors

```
if exists (select 1
          from  sysobjects
         where  id = object_id('huShelterRelModFactors')
          and   type = 'U')
   drop table huShelterRelModFactors
```

```
go

/*==============================================================*/
/* Table: huShelterRelModFactors                                */
/*==============================================================*/
create table huShelterRelModFactors (
Class              char(5)            not null,
Description        varchar(100)       null,
Value              real               null,
constraint PK_HUSHELTERRELMODFACTORS primary key  (Class)
)
go
```

Table huExposureContentBldgTypeT

Card of the table huExposureContentBldgTypeT

Name	huExposureContentBldgTypeT
Code	huExposureContentBldgTypeT
DBMS	Microsoft SQL Server 2000

Constraint name of table huExposureContentBldgTypeT

CKT_HUEXPOSURECONTENTBLDGTYPET

Column list of the table huExposureContentBldgTypeT

Name	Code
CECBHi	CECBHi
CECBLi	CECBLi
CECBMi	CECBMi
CERBHi	CERBHi
CERBLi	CERBLi
CERBMi	CERBMi
MECBHi	MECBHi
MECBLi	MECBLi
MECBMi	MECBMi
MERBHi	MERBHi
MERBLi	MERBLi
MERBMi	MERBMi
MH76HUDi	MH76HUDi
MH94HUDIIIi	MH94HUDIIIi
MH94HUDIIi	MH94HUDIIi
MH94HUDIi	MH94HUDIi
MHPHUDi	MHPHUDi
MLRIi	MLRIi
MLRM1i	MLRM1i
MLRM2i	MLRM2i
MMUH1i	MMUH1i
MMUH2i	MMUH2i
MMUH3i	MMUH3i
MSF1i	MSF1i
MSF2i	MSF2i
SECBHi	SECBHi
SECBLi	SECBLi
SECBMi	SECBMi
SERBHi	SERBHi

SERBLi	SERBLi
SERBMi	SERBMi
SPMBLi	SPMBLi
SPMBMi	SPMBMi
SPMBSi	SPMBSi
Tract	Tract
WMUH1i	WMUH1i
WMUH2i	WMUH2i
WMUH3i	WMUH3i
WSF1i	WSF1i
WSF2i	WSF2i

Column Tract of table huExposureContentBldgTypeT

Card of the column Tract of the table huExposureContentBldgTypeT

Name	Tract
Code	Tract
Data Type	char(11)
Mandatory	TRUE

Standard check of column Tract of table huExposureContentBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Tract of table huExposureContentBldgTypeT

CKC_TRACT_HUEXPOSU

Column WSF1i of table huExposureContentBldgTypeT

Card of the column WSF1i of the table huExposureContentBldgTypeT

Name	WSF1i
Code	WSF1i
Data Type	int
Mandatory	FALSE

Standard check of column WSF1i of table huExposureContentBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WSF1i of table huExposureContentBldgTypeT

CKC_WSF1I_HUEXPOSU

Column WSF2i of table huExposureContentBldgTypeT

Card of the column WSF2i of the table huExposureContentBldgTypeT

Name	WSF2i
Code	WSF2i
Data Type	int
Mandatory	FALSE

Standard check of column WSF2i of table huExposureContentBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WSF2i of table huExposureContentBldgTypeT

CKC_WSF2I_HUEXPOSU

Column WMUH1i of table huExposureContentBldgTypeT

Card of the column WMUH1i of the table huExposureContentBldgTypeT

Name	WMUH1i
Code	WMUH1i
Data Type	int
Mandatory	FALSE

Standard check of column WMUH1i of table huExposureContentBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WMUH1i of table huExposureContentBldgTypeT

CKC_WMUH1I_HUEXPOSU

Column WMUH2i of table huExposureContentBldgTypeT

Card of the column WMUH2i of the table huExposureContentBldgTypeT

Name	WMUH2i
Code	WMUH2i
Data Type	int
Mandatory	FALSE

Standard check of column WMUH2i of table huExposureContentBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WMUH2i of table huExposureContentBldgTypeT

CKC_WMUH2I_HUEXPOSU

Column WMUH3i of table huExposureContentBldgTypeT

Card of the column WMUH3i of the table huExposureContentBldgTypeT

Name	WMUH3i
Code	WMUH3i
Data Type	int
Mandatory	FALSE

Standard check of column WMUH3i of table huExposureContentBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WMUH3i of table huExposureContentBldgTypeT

CKC_WMUH3I_HUEXPOSU

Column MSF1i of table huExposureContentBldgTypeT

Card of the column MSF1i of the table huExposureContentBldgTypeT

Name	MSF1i
Code	MSF1i
Data Type	int
Mandatory	FALSE

Standard check of column MSF1i of table huExposureContentBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MSF1i of table huExposureContentBldgTypeT

CKC_MSF1I_HUEXPOSU

Column MSF2i of table huExposureContentBldgTypeT

Card of the column MSF2i of the table huExposureContentBldgTypeT

Name	MSF2i
Code	MSF2i
Data Type	int
Mandatory	FALSE

Standard check of column MSF2i of table huExposureContentBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MSF2i of table huExposureContentBldgTypeT

CKC_MSF2I_HUEXPOSU

Column MMUH1i of table huExposureContentBldgTypeT

Card of the column MMUH1i of the table huExposureContentBldgTypeT

Name	MMUH1i
Code	MMUH1i
Data Type	int
Mandatory	FALSE

Standard check of column MMUH1i of table huExposureContentBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MMUH1i of table huExposureContentBldgTypeT

CKC_MMUH1I_HUEXPOSU

Column MMUH2i of table huExposureContentBldgTypeT

Card of the column MMUH2i of the table huExposureContentBldgTypeT

Name	MMUH2i
Code	MMUH2i
Data Type	int
Mandatory	FALSE

Standard check of column MMUH2i of table huExposureContentBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MMUH2i of table huExposureContentBldgTypeT

CKC_MMUH2I_HUEXPOSU

Column MMUH3i of table huExposureContentBldgTypeT

Card of the column MMUH3i of the table huExposureContentBldgTypeT

Name	MMUH3i
Code	MMUH3i
Data Type	int
Mandatory	FALSE

Standard check of column MMUH3i of table huExposureContentBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MMUH3i of table huExposureContentBldgTypeT

CKC_MMUH3I_HUEXPOSU

Column MLRM1i of table huExposureContentBldgTypeT

Card of the column MLRM1i of the table huExposureContentBldgTypeT

Name	MLRM1i
Code	MLRM1i
Data Type	int
Mandatory	FALSE

Standard check of column MLRM1i of table huExposureContentBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MLRM1i of table huExposureContentBldgTypeT

CKC_MLRM1I_HUEXPOSU

Column MLRM2i of table huExposureContentBldgTypeT

Card of the column MLRM2i of the table huExposureContentBldgTypeT

Name	MLRM2i
Code	MLRM2i
Data Type	int
Mandatory	FALSE

Standard check of column MLRM2i of table huExposureContentBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MLRM2i of table huExposureContentBldgTypeT

CKC_MLRM2I_HUEXPOSU

Column MLRIi of table huExposureContentBldgTypeT

Card of the column MLRIi of the table huExposureContentBldgTypeT

Name	MLRIi
Code	MLRIi
Data Type	int
Mandatory	FALSE

Standard check of column MLRIi of table huExposureContentBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MLRIi of table huExposureContentBldgTypeT

CKC_MLRII_HUEXPOSU

Column MERBLi of table huExposureContentBldgTypeT

Card of the column MERBLi of the table huExposureContentBldgTypeT

Name	MERBLi
Code	MERBLi
Data Type	int
Mandatory	FALSE

Standard check of column MERBLi of table huExposureContentBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MERBLi of table huExposureContentBldgTypeT

CKC_MERBLI_HUEXPOSU

Column MERBMi of table huExposureContentBldgTypeT

Card of the column MERBMi of the table huExposureContentBldgTypeT

Name	MERBMi
Code	MERBMi
Data Type	int
Mandatory	FALSE

Standard check of column MERBMi of table huExposureContentBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MERBMi of table huExposureContentBldgTypeT

CKC_MERBMI_HUEXPOSU

Column MERBHi of table huExposureContentBldgTypeT

Card of the column MERBHi of the table huExposureContentBldgTypeT

Name	MERBHi
Code	MERBHi
Data Type	int
Mandatory	FALSE

Standard check of column MERBHi of table huExposureContentBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MERBHi of table huExposureContentBldgTypeT

CKC_MERBHI_HUEXPOSU

Column MECBLi of table huExposureContentBldgTypeT

Card of the column MECBLi of the table huExposureContentBldgTypeT

Name	MECBLi
Code	MECBLi
Data Type	int
Mandatory	FALSE

Standard check of column MECBLi of table huExposureContentBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MECBLi of table huExposureContentBldgTypeT

CKC_MECBLI_HUEXPOSU

Column MECBMi of table huExposureContentBldgTypeT

Card of the column MECBMi of the table huExposureContentBldgTypeT

Name	MECBMi
Code	MECBMi
Data Type	int
Mandatory	FALSE

Standard check of column MECBMi of table huExposureContentBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MECBMi of table huExposureContentBldgTypeT

CKC_MECBMI_HUEXPOSU

Column MECBHi of table huExposureContentBldgTypeT

Card of the column MECBHi of the table huExposureContentBldgTypeT

Name	MECBHi
Code	MECBHi
Data Type	int
Mandatory	FALSE

Standard check of column MECBHi of table huExposureContentBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MECBHi of table huExposureContentBldgTypeT

CKC_MECBHI_HUEXPOSU

Column CERBLi of table huExposureContentBldgTypeT

Card of the column CERBLi of the table huExposureContentBldgTypeT

Name	CERBLi
Code	CERBLi
Data Type	int
Mandatory	FALSE

Standard check of column CERBLi of table huExposureContentBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CERBLi of table huExposureContentBldgTypeT

CKC_CERBLI_HUEXPOSU

Column CERBMi of table huExposureContentBldgTypeT

Card of the column CERBMi of the table huExposureContentBldgTypeT

Name	CERBMi
Code	CERBMi
Data Type	int
Mandatory	FALSE

Standard check of column CERBMi of table huExposureContentBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CERBMi of table huExposureContentBldgTypeT

CKC_CERBMI_HUEXPOSU

Column CERBHi of table huExposureContentBldgTypeT

Card of the column CERBHi of the table huExposureContentBldgTypeT

Name	CERBHi
Code	CERBHi
Data Type	int
Mandatory	FALSE

Standard check of column CERBHi of table huExposureContentBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CERBHi of table huExposureContentBldgTypeT

CKC_CERBHI_HUEXPOSU

Column CECBLi of table huExposureContentBldgTypeT

Card of the column CECBLi of the table huExposureContentBldgTypeT

Name	CECBLi
Code	CECBLi
Data Type	int
Mandatory	FALSE

Standard check of column CECBLi of table huExposureContentBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CECBLi of table huExposureContentBldgTypeT

CKC_CECBLI_HUEXPOSU

Column CECBMi of table huExposureContentBldgTypeT

Card of the column CECBMi of the table huExposureContentBldgTypeT

Name	CECBMi
Code	CECBMi
Data Type	int
Mandatory	FALSE

Standard check of column CECBMi of table huExposureContentBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CECBMi of table huExposureContentBldgTypeT

CKC_CECBMI_HUEXPOSU

Column CECBHi of table huExposureContentBldgTypeT

Card of the column CECBHi of the table huExposureContentBldgTypeT

Name	CECBHi
Code	CECBHi
Data Type	int
Mandatory	FALSE

Standard check of column CECBHi of table huExposureContentBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CECBHi of table huExposureContentBldgTypeT

CKC_CECBHI_HUEXPOSU

Column SPMBSi of table huExposureContentBldgTypeT

Card of the column SPMBSi of the table huExposureContentBldgTypeT

Name	SPMBSi
Code	SPMBSi
Data Type	int
Mandatory	FALSE

Standard check of column SPMBSi of table huExposureContentBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SPMBSi of table huExposureContentBldgTypeT

CKC_SPMBSI_HUEXPOSU

Column SPMBMi of table huExposureContentBldgTypeT

Card of the column SPMBMi of the table huExposureContentBldgTypeT

Name	SPMBMi
Code	SPMBMi
Data Type	int
Mandatory	FALSE

Standard check of column SPMBMi of table huExposureContentBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SPMBMi of table huExposureContentBldgTypeT

CKC_SPMBMI_HUEXPOSU

Column SPMBLi of table huExposureContentBldgTypeT

Card of the column SPMBLi of the table huExposureContentBldgTypeT

Name	SPMBLi
Code	SPMBLi
Data Type	int
Mandatory	FALSE

Standard check of column SPMBLi of table huExposureContentBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SPMBLi of table huExposureContentBldgTypeT

CKC_SPMBLI_HUEXPOSU

Column SERBLi of table huExposureContentBldgTypeT

Card of the column SERBLi of the table huExposureContentBldgTypeT

Name	SERBLi
Code	SERBLi
Data Type	int
Mandatory	FALSE

Standard check of column SERBLi of table huExposureContentBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SERBLi of table huExposureContentBldgTypeT

CKC_SERBLI_HUEXPOSU

Column SERBMi of table huExposureContentBldgTypeT

Card of the column SERBMi of the table huExposureContentBldgTypeT

Name	SERBMi
Code	SERBMi
Data Type	int
Mandatory	FALSE

Standard check of column SERBMi of table huExposureContentBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SERBMi of table huExposureContentBldgTypeT

CKC_SERBMI_HUEXPOSU

Column SERBHi of table huExposureContentBldgTypeT

Card of the column SERBHi of the table huExposureContentBldgTypeT

Name	SERBHi
Code	SERBHi
Data Type	int
Mandatory	FALSE

Standard check of column SERBHi of table huExposureContentBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SERBHi of table huExposureContentBldgTypeT

CKC_SERBHI_HUEXPOSU

Column SECBLi of table huExposureContentBldgTypeT

Card of the column SECBLi of the table huExposureContentBldgTypeT

Name	SECBLi
Code	SECBLi
Data Type	int
Mandatory	FALSE

Standard check of column SECBLi of table huExposureContentBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SECBLi of table huExposureContentBldgTypeT

CKC_SECBLI_HUEXPOSU

Column SECBMi of table huExposureContentBldgTypeT

Card of the column SECBMi of the table huExposureContentBldgTypeT

Name	SECBMi
Code	SECBMi
Data Type	int
Mandatory	FALSE

Standard check of column SECBMi of table huExposureContentBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SECBMi of table huExposureContentBldgTypeT

CKC_SECBMI_HUEXPOSU

Column SECBHi of table huExposureContentBldgTypeT

Card of the column SECBHi of the table huExposureContentBldgTypeT

Name	SECBHi
Code	SECBHi
Data Type	int
Mandatory	FALSE

Standard check of column SECBHi of table huExposureContentBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SECBHi of table huExposureContentBldgTypeT

CKC_SECBHI_HUEXPOSU

Column MHPHUDi of table huExposureContentBldgTypeT

Card of the column MHPHUDi of the table huExposureContentBldgTypeT

Name	MHPHUDi
Code	MHPHUDi
Data Type	int
Mandatory	FALSE

Standard check of column MHPHUDi of table huExposureContentBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MHPHUDi of table huExposureContentBldgTypeT

CKC_MHPHUDI_HUEXPOSU

Column MH76HUDi of table huExposureContentBldgTypeT

Card of the column MH76HUDi of the table huExposureContentBldgTypeT

Name	MH76HUDi
Code	MH76HUDi
Data Type	int
Mandatory	FALSE

Standard check of column MH76HUDi of table huExposureContentBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MH76HUDi of table huExposureContentBldgTypeT

CKC_MH76HUDI_HUEXPOSU

Column MH94HUDIi of table huExposureContentBldgTypeT

Card of the column MH94HUDIi of the table huExposureContentBldgTypeT

Name	MH94HUDIi
Code	MH94HUDIi
Data Type	int
Mandatory	FALSE

Standard check of column MH94HUDIi of table huExposureContentBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MH94HUDIi of table huExposureContentBldgTypeT

CKC_MH94HUDII_HUEXPOSU

Column MH94HUDIIi of table huExposureContentBldgTypeT

Card of the column MH94HUDIIi of the table huExposureContentBldgTypeT

Name	MH94HUDIIi
Code	MH94HUDIIi
Data Type	int
Mandatory	FALSE

Standard check of column MH94HUDIIi of table huExposureContentBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MH94HUDIIi of table huExposureContentBldgTypeT

CKC_MH94HUDIII_HUEXPOSU

Column MH94HUDIIIi of table huExposureContentBldgTypeT

Card of the column MH94HUDIIIi of the table huExposureContentBldgTypeT

Name	MH94HUDIIIi
Code	MH94HUDIIIi
Data Type	int
Mandatory	FALSE

Standard check of column MH94HUDIIIi of table huExposureContentBldgTypeT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MH94HUDIIIi of table huExposureContentBldgTypeT

CKC_MH94HUDIIII_HUEXPOSU

Key list of the table huExposureContentBldgTypeT

Name	Code
idtKey	idtKey

Key idtKey of table huExposureContentBldgTypeT

Card of the key idtKey of the table huExposureContentBldgTypeT

Name	idtKey
Code	idtKey
Table	huExposureContentBldgTypeT

Column list of the key idtKey

Name	Code
Tract	Tract

Code preview of idtKey

```
alter table huExposureContentBldgTypeT
  drop constraint PK_HUEXPOSURECONTENTBLDGTYPET
go
```

Index list of the table huExposureContentBldgTypeT

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
RLNTRACT_HUEXPBT_FK	RLNTRACT_HUEXPBT_FK	FALSE	FALSE	FALSE	FALSE	FALSE

Index RLNTRACT_HUEXPBT_FK of table huExposureContentBldgTypeT

Card of the index RLNTRACT_HUEXPBT_FK of the table huExposureContentBldgTypeT

Name	RLNTRACT_HUEXPBT_FK
Code	RLNTRACT_HUEXPBT_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	FALSE
Alternate Key	FALSE
Table	huExposureContentBldgTypeT

Column list of the index RLNTRACT_HUEXPBT_FK

Name	Code	Sort
Tract	Tract	Ascending

Code preview of RLNTRACT_HUEXPBT_FK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huExposureContentBldgTypeT

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huExposureContentBldgTypeT

```
alter table huExposureContentBldgTypeT
   drop constraint FK_HUEXPOSUCONTSBT_RLNTRACT
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huExposureContentBldgTypeT')
            and   type = 'U')
   drop table huExposureContentBldgTypeT
go


/*==============================================================*/
/* Table: huExposureContentBldgTypeT                            */
/*==============================================================*/
create table huExposureContentBldgTypeT (
Tract              char(11)           not null,
WSF1i              int                null,
WSF2i              int                null,
WMUH1i             int                null,
WMUH2i             int                null,
WMUH3i             int                null,
MSF1i              int                null,
MSF2i              int                null,
MMUH1i             int                null,
MMUH2i             int                null,
MMUH3i             int                null,
MLRM1i             int                null,
MLRM2i             int                null,
MLRIi              int                null,
MERBLi             int                null,
MERBMi             int                null,
MERBHi             int                null,
MECBLi             int                null,
```

```
MECBMi          int          null,
MECBHi          int          null,
CERBLi          int          null,
CERBMi          int          null,
CERBHi          int          null,
CECBLi          int          null,
CECBMi          int          null,
CECBHi          int          null,
SPMBSi          int          null,
SPMBMi          int          null,
SPMBLi          int          null,
SERBLi          int          null,
SERBMi          int          null,
SERBHi          int          null,
SECBLi          int          null,
SECBMi          int          null,
SECBHi          int          null,
MHPHUDi         int          null,
MH76HUDi        int          null,
MH94HUDIi       int          null,
MH94HUDIIi      int          null,
MH94HUDIIIi     int          null,
constraint PK_HUEXPOSURECONTENTBLDGTYPET primary key  (Tract)
)
go


alter table huExposureContentBldgTypeT
  add constraint FK_HUEXPOSUCONTSBT_RLNTRACT foreign key (Tract)
    references hzTract (Tract)
go
```

Table huExposureContentBldgTypeB

Card of the table huExposureContentBldgTypeB

Name	huExposureContentBldgTypeB
Code	huExposureContentBldgTypeB
DBMS	Microsoft SQL Server 2000

Constraint name of table huExposureContentBldgTypeB

CKT_HUEXPOSURECONTENTBLDGTYPEB

Column list of the table huExposureContentBldgTypeB

Name	Code
CECBHi	CECBHi
CECBLi	CECBLi
CECBMi	CECBMi
CERBHi	CERBHi
CERBLi	CERBLi
CERBMi	CERBMi
CensusBlock	CensusBlock
MECBHi	MECBHi
MECBLi	MECBLi
MECBMi	MECBMi
MERBHi	MERBHi
MERBLi	MERBLi

MERBMi	MERBMi
MH76HUDi	MH76HUDi
MH94HUDIIIi	MH94HUDIIIi
MH94HUDIIi	MH94HUDIIi
MH94HUDIi	MH94HUDIi
MHPHUDi	MHPHUDi
MLRIi	MLRIi
MLRM1i	MLRM1i
MLRM2i	MLRM2i
MMUH1i	MMUH1i
MMUH2i	MMUH2i
MMUH3i	MMUH3i
MSF1i	MSF1i
MSF2i	MSF2i
SECBHi	SECBHi
SECBLi	SECBLi
SECBMi	SECBMi
SERBHi	SERBHi
SERBLi	SERBLi
SERBMi	SERBMi
SPMBLi	SPMBLi
SPMBMi	SPMBMi
SPMBSi	SPMBSi
WMUH1i	WMUH1i
WMUH2i	WMUH2i
WMUH3i	WMUH3i
WSF1i	WSF1i
WSF2i	WSF2i

Column CensusBlock of table huExposureContentBldgTypeB

Card of the column CensusBlock of the table huExposureContentBldgTypeB

Name	CensusBlock
Code	CensusBlock
Data Type	char(15)
Mandatory	TRUE

Standard check of column CensusBlock of table huExposureContentBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CensusBlock of table huExposureContentBldgTypeB

CKC_CENSUSBLOCK_HUEXPOSU

Column WSF1i of table huExposureContentBldgTypeB

Card of the column WSF1i of the table huExposureContentBldgTypeB

Name	WSF1i
Code	WSF1i
Data Type	int
Mandatory	FALSE

Standard check of column WSF1i of table huExposureContentBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WSF1i of table huExposureContentBldgTypeB

CKC_WSF1I_HUEXPOSU

Column WSF2i of table huExposureContentBldgTypeB

Card of the column WSF2i of the table huExposureContentBldgTypeB

Name	WSF2i
Code	WSF2i
Data Type	int
Mandatory	FALSE

Standard check of column WSF2i of table huExposureContentBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WSF2i of table huExposureContentBldgTypeB

CKC_WSF2I_HUEXPOSU

Column WMUH1i of table huExposureContentBldgTypeB

Card of the column WMUH1i of the table huExposureContentBldgTypeB

Name	WMUH1i
Code	WMUH1i
Data Type	int
Mandatory	FALSE

Standard check of column WMUH1i of table huExposureContentBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WMUH1i of table huExposureContentBldgTypeB

CKC_WMUH1I_HUEXPOSU

Column WMUH2i of table huExposureContentBldgTypeB

Card of the column WMUH2i of the table huExposureContentBldgTypeB

Name	WMUH2i
Code	WMUH2i
Data Type	int
Mandatory	FALSE

Standard check of column WMUH2i of table huExposureContentBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WMUH2i of table huExposureContentBldgTypeB

CKC_WMUH2I_HUEXPOSU

Column WMUH3i of table huExposureContentBldgTypeB

Card of the column WMUH3i of the table huExposureContentBldgTypeB

Name	WMUH3i
Code	WMUH3i
Data Type	int
Mandatory	FALSE

Standard check of column WMUH3i of table huExposureContentBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column WMUH3i of table huExposureContentBldgTypeB

CKC_WMUH3I_HUEXPOSU

Column MSF1i of table huExposureContentBldgTypeB

Card of the column MSF1i of the table huExposureContentBldgTypeB

Name	MSF1i
Code	MSF1i
Data Type	int
Mandatory	FALSE

Standard check of column MSF1i of table huExposureContentBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MSF1i of table huExposureContentBldgTypeB

CKC_MSF1I_HUEXPOSU

Column MSF2i of table huExposureContentBldgTypeB

Card of the column MSF2i of the table huExposureContentBldgTypeB

Name	MSF2i
Code	MSF2i
Data Type	int
Mandatory	FALSE

Standard check of column MSF2i of table huExposureContentBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MSF2i of table huExposureContentBldgTypeB

CKC_MSF2I_HUEXPOSU

Column MMUH1i of table huExposureContentBldgTypeB

Card of the column MMUH1i of the table huExposureContentBldgTypeB

Name	MMUH1i
Code	MMUH1i
Data Type	int
Mandatory	FALSE

Standard check of column MMUH1i of table huExposureContentBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MMUH1i of table huExposureContentBldgTypeB

CKC_MMUH1I_HUEXPOSU

Column MMUH2i of table huExposureContentBldgTypeB

Card of the column MMUH2i of the table huExposureContentBldgTypeB

Name	MMUH2i
Code	MMUH2i
Data Type	int
Mandatory	FALSE

Standard check of column MMUH2i of table huExposureContentBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MMUH2i of table huExposureContentBldgTypeB

CKC_MMUH2I_HUEXPOSU

Column MMUH3i of table huExposureContentBldgTypeB

Card of the column MMUH3i of the table huExposureContentBldgTypeB

Name	MMUH3i
Code	MMUH3i
Data Type	int
Mandatory	FALSE

Standard check of column MMUH3i of table huExposureContentBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MMUH3i of table huExposureContentBldgTypeB

CKC_MMUH3I_HUEXPOSU

Column MLRM1i of table huExposureContentBldgTypeB

Card of the column MLRM1i of the table huExposureContentBldgTypeB

Name	MLRM1i
Code	MLRM1i
Data Type	int
Mandatory	FALSE

Standard check of column MLRM1i of table huExposureContentBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MLRM1i of table huExposureContentBldgTypeB

CKC_MLRM1I_HUEXPOSU

Column MLRM2i of table huExposureContentBldgTypeB

Card of the column MLRM2i of the table huExposureContentBldgTypeB

Name	MLRM2i
Code	MLRM2i
Data Type	int
Mandatory	FALSE

Standard check of column MLRM2i of table huExposureContentBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MLRM2i of table huExposureContentBldgTypeB

CKC_MLRM2I_HUEXPOSU

Column MLRIi of table huExposureContentBldgTypeB

Card of the column MLRIi of the table huExposureContentBldgTypeB

Name	MLRIi
Code	MLRIi
Data Type	int
Mandatory	FALSE

Standard check of column MLRIi of table huExposureContentBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MLRIi of table huExposureContentBldgTypeB

CKC_MLRII_HUEXPOSU

Column MERBLi of table huExposureContentBldgTypeB

Card of the column MERBLi of the table huExposureContentBldgTypeB

Name	MERBLi
Code	MERBLi
Data Type	int
Mandatory	FALSE

Standard check of column MERBLi of table huExposureContentBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MERBLi of table huExposureContentBldgTypeB

CKC_MERBLI_HUEXPOSU

Column MERBMi of table huExposureContentBldgTypeB

Card of the column MERBMi of the table huExposureContentBldgTypeB

Name	MERBMi
Code	MERBMi
Data Type	int
Mandatory	FALSE

Standard check of column MERBMi of table huExposureContentBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MERBMi of table huExposureContentBldgTypeB

CKC_MERBMI_HUEXPOSU

Column MERBHi of table huExposureContentBldgTypeB

Card of the column MERBHi of the table huExposureContentBldgTypeB

Name	MERBHi
Code	MERBHi
Data Type	int
Mandatory	FALSE

Standard check of column MERBHi of table huExposureContentBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MERBHi of table huExposureContentBldgTypeB

CKC_MERBHI_HUEXPOSU

Column MECBLi of table huExposureContentBldgTypeB

Card of the column MECBLi of the table huExposureContentBldgTypeB

Name	MECBLi
Code	MECBLi
Data Type	int
Mandatory	FALSE

Standard check of column MECBLi of table huExposureContentBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MECBLi of table huExposureContentBldgTypeB

CKC_MECBLI_HUEXPOSU

Column MECBMi of table huExposureContentBldgTypeB

Card of the column MECBMi of the table huExposureContentBldgTypeB

Name	MECBMi
Code	MECBMi
Data Type	int
Mandatory	FALSE

Standard check of column MECBMi of table huExposureContentBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MECBMi of table huExposureContentBldgTypeB

CKC_MECBMI_HUEXPOSU

Column MECBHi of table huExposureContentBldgTypeB

Card of the column MECBHi of the table huExposureContentBldgTypeB

Name	MECBHi
Code	MECBHi
Data Type	int
Mandatory	FALSE

Standard check of column MECBHi of table huExposureContentBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MECBHi of table huExposureContentBldgTypeB

CKC_MECBHI_HUEXPOSU

Column CERBLi of table huExposureContentBldgTypeB

Card of the column CERBLi of the table huExposureContentBldgTypeB

Name	CERBLi
Code	CERBLi
Data Type	int
Mandatory	FALSE

Standard check of column CERBLi of table huExposureContentBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CERBLi of table huExposureContentBldgTypeB

CKC_CERBLI_HUEXPOSU

Column CERBMi of table huExposureContentBldgTypeB

Card of the column CERBMi of the table huExposureContentBldgTypeB

Name	CERBMi
Code	CERBMi
Data Type	int
Mandatory	FALSE

Standard check of column CERBMi of table huExposureContentBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CERBMi of table huExposureContentBldgTypeB

CKC_CERBMI_HUEXPOSU

Column CERBHi of table huExposureContentBldgTypeB

Card of the column CERBHi of the table huExposureContentBldgTypeB

Name	CERBHi
Code	CERBHi
Data Type	int
Mandatory	FALSE

Standard check of column CERBHi of table huExposureContentBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CERBHi of table huExposureContentBldgTypeB

CKC_CERBHI_HUEXPOSU

Column CECBLi of table huExposureContentBldgTypeB

Card of the column CECBLi of the table huExposureContentBldgTypeB

Name	CECBLi
Code	CECBLi
Data Type	int
Mandatory	FALSE

Standard check of column CECBLi of table huExposureContentBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CECBLi of table huExposureContentBldgTypeB

CKC_CECBLI_HUEXPOSU

Column CECBMi of table huExposureContentBldgTypeB

Card of the column CECBMi of the table huExposureContentBldgTypeB

Name	CECBMi
Code	CECBMi
Data Type	int
Mandatory	FALSE

Standard check of column CECBMi of table huExposureContentBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CECBMi of table huExposureContentBldgTypeB

CKC_CECBMI_HUEXPOSU

Column CECBHi of table huExposureContentBldgTypeB

Card of the column CECBHi of the table huExposureContentBldgTypeB

Name	CECBHi
Code	CECBHi
Data Type	int
Mandatory	FALSE

Standard check of column CECBHi of table huExposureContentBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CECBHi of table huExposureContentBldgTypeB

CKC_CECBHI_HUEXPOSU

Column SPMBSi of table huExposureContentBldgTypeB

Card of the column SPMBSi of the table huExposureContentBldgTypeB

Name	SPMBSi
Code	SPMBSi
Data Type	int
Mandatory	FALSE

Standard check of column SPMBSi of table huExposureContentBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SPMBSi of table huExposureContentBldgTypeB

CKC_SPMBSI_HUEXPOSU

Column SPMBMi of table huExposureContentBldgTypeB

Card of the column SPMBMi of the table huExposureContentBldgTypeB

Name	SPMBMi
Code	SPMBMi
Data Type	int
Mandatory	FALSE

Standard check of column SPMBMi of table huExposureContentBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SPMBMi of table huExposureContentBldgTypeB

CKC_SPMBMI_HUEXPOSU

Column SPMBLi of table huExposureContentBldgTypeB

Card of the column SPMBLi of the table huExposureContentBldgTypeB

Name	SPMBLi
Code	SPMBLi
Data Type	int
Mandatory	FALSE

Standard check of column SPMBLi of table huExposureContentBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SPMBLi of table huExposureContentBldgTypeB

CKC_SPMBLI_HUEXPOSU

Column SERBLi of table huExposureContentBldgTypeB

Card of the column SERBLi of the table huExposureContentBldgTypeB

Name	SERBLi
Code	SERBLi
Data Type	int
Mandatory	FALSE

Standard check of column SERBLi of table huExposureContentBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SERBLi of table huExposureContentBldgTypeB

CKC_SERBLI_HUEXPOSU

Column SERBMi of table huExposureContentBldgTypeB

Card of the column SERBMi of the table huExposureContentBldgTypeB

Name	SERBMi
Code	SERBMi
Data Type	int
Mandatory	FALSE

Standard check of column SERBMi of table huExposureContentBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SERBMi of table huExposureContentBldgTypeB

CKC_SERBMI_HUEXPOSU

Column SERBHi of table huExposureContentBldgTypeB

Card of the column SERBHi of the table huExposureContentBldgTypeB

Name	SERBHi
Code	SERBHi
Data Type	int
Mandatory	FALSE

Standard check of column SERBHi of table huExposureContentBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SERBHi of table huExposureContentBldgTypeB

CKC_SERBHI_HUEXPOSU

Column SECBLi of table huExposureContentBldgTypeB

Card of the column SECBLi of the table huExposureContentBldgTypeB

Name	SECBLi
Code	SECBLi
Data Type	int
Mandatory	FALSE

Standard check of column SECBLi of table huExposureContentBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SECBLi of table huExposureContentBldgTypeB

CKC_SECBLI_HUEXPOSU

Column SECBMi of table huExposureContentBldgTypeB

Card of the column SECBMi of the table huExposureContentBldgTypeB

Name	SECBMi
Code	SECBMi
Data Type	int
Mandatory	FALSE

Standard check of column SECBMi of table huExposureContentBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SECBMi of table huExposureContentBldgTypeB

CKC_SECBMI_HUEXPOSU

Column SECBHi of table huExposureContentBldgTypeB

Card of the column SECBHi of the table huExposureContentBldgTypeB

Name	SECBHi
Code	SECBHi
Data Type	int
Mandatory	FALSE

Standard check of column SECBHi of table huExposureContentBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SECBHi of table huExposureContentBldgTypeB

CKC_SECBHI_HUEXPOSU

Column MHPHUDi of table huExposureContentBldgTypeB

Card of the column MHPHUDi of the table huExposureContentBldgTypeB

Name	MHPHUDi
Code	MHPHUDi
Data Type	int
Mandatory	FALSE

Standard check of column MHPHUDi of table huExposureContentBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MHPHUDi of table huExposureContentBldgTypeB

CKC_MHPHUDI_HUEXPOSU

Column MH76HUDi of table huExposureContentBldgTypeB

Card of the column MH76HUDi of the table huExposureContentBldgTypeB

Name	MH76HUDi
Code	MH76HUDi
Data Type	int
Mandatory	FALSE

Standard check of column MH76HUDi of table huExposureContentBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MH76HUDi of table huExposureContentBldgTypeB

CKC_MH76HUDI_HUEXPOSU

Column MH94HUDIi of table huExposureContentBldgTypeB

Card of the column MH94HUDIi of the table huExposureContentBldgTypeB

Name	MH94HUDIi
Code	MH94HUDIi
Data Type	int
Mandatory	FALSE

Standard check of column MH94HUDIi of table huExposureContentBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MH94HUDIi of table huExposureContentBldgTypeB

CKC_MH94HUDII_HUEXPOSU

Column MH94HUDIIi of table huExposureContentBldgTypeB

Card of the column MH94HUDIIi of the table huExposureContentBldgTypeB

Name	MH94HUDIIi
Code	MH94HUDIIi
Data Type	int
Mandatory	FALSE

Standard check of column MH94HUDIIi of table huExposureContentBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MH94HUDIIi of table huExposureContentBldgTypeB

CKC_MH94HUDIII_HUEXPOSU

Column MH94HUDIIIi of table huExposureContentBldgTypeB

Card of the column MH94HUDIIIi of the table huExposureContentBldgTypeB

Name	MH94HUDIIIi
Code	MH94HUDIIIi
Data Type	int
Mandatory	FALSE

Standard check of column MH94HUDIIIi of table huExposureContentBldgTypeB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MH94HUDIIIi of table huExposureContentBldgTypeB

CKC_MH94HUDIIII_HUEXPOSU

Key list of the table huExposureContentBldgTypeB

Name	Code
idtKey	idtKey

Key idtKey of table huExposureContentBldgTypeB

Card of the key idtKey of the table huExposureContentBldgTypeB

Name	idtKey
Code	idtKey
Table	huExposureContentBldgTypeB

Column list of the key idtKey

Name	Code
CensusBlock	CensusBlock

Code preview of idtKey

```
alter table huExposureContentBldgTypeB
  drop constraint PK_HUEXPOSURECONTENTBLDGTYPEB
go
```

Index list of the table huExposureContentBldgTypeB

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
RLNTRACT_HUEXPBT_FK	RLNTRACT_HUEXPBT_FK	FALSE	FALSE	FALSE	FALSE	FALSE

Index RLNTRACT_HUEXPBT_FK of table huExposureContentBldgTypeB

Card of the index RLNTRACT_HUEXPBT_FK of the table huExposureContentBldgTypeB

Name	RLNTRACT_HUEXPBT_FK
Code	RLNTRACT_HUEXPBT_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	FALSE
Alternate Key	FALSE
Table	huExposureContentBldgTypeB

Column list of the index RLNTRACT_HUEXPBT_FK

Name	Code	Sort
CensusBlock	CensusBlock	Ascending

Code preview of RLNTRACT_HUEXPBT_FK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huExposureContentBldgTypeB

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huExposureContentBldgTypeB

```
alter table huExposureContentBldgTypeB
   drop constraint FK_HUEXPOSU_RLNBLOCK
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huExposureContentBldgTypeB')
            and   type = 'U')
   drop table huExposureContentBldgTypeB
go


/*==============================================================*/
/* Table: huExposureContentBldgTypeB                            */
/*==============================================================*/
create table huExposureContentBldgTypeB (
CensusBlock          char(15)             not null,
WSF1i                int                  null,
WSF2i                int                  null,
WMUH1i               int                  null,
WMUH2i               int                  null,
WMUH3i               int                  null,
MSF1i                int                  null,
MSF2i                int                  null,
MMUH1i               int                  null,
MMUH2i               int                  null,
MMUH3i               int                  null,
MLRM1i               int                  null,
MLRM2i               int                  null,
MLRIi                int                  null,
MERBLi               int                  null,
MERBMi               int                  null,
MERBHi               int                  null,
```

```
MECBLi          int          null,
MECBMi          int          null,
MECBHi          int          null,
CERBLi          int          null,
CERBMi          int          null,
CERBHi          int          null,
CECBLi          int          null,
CECBMi          int          null,
CECBHi          int          null,
SPMBSi          int          null,
SPMBMi          int          null,
SPMBLi          int          null,
SERBLi          int          null,
SERBMi          int          null,
SERBHi          int          null,
SECBLi          int          null,
SECBMi          int          null,
SECBHi          int          null,
MHPHUDi         int          null,
MH76HUDi        int          null,
MH94HUDIi       int          null,
MH94HUDIIi      int          null,
MH94HUDIIIi     int          null,
constraint PK_HUEXPOSURECONTENTBLDGTYPEB primary key  (CensusBlock)
)
go


alter table huExposureContentBldgTypeB
  add constraint FK_HUEXPOSU_RLNBLOCK foreign key (CensusBlock)
    references hzCensusBlock (CensusBlock)
go
```

Table huBldgCharTree

Card of the table huBldgCharTree

Name	huBldgCharTree
Code	huBldgCharTree
DBMS	Microsoft SQL Server 2000

Constraint name of table huBldgCharTree

CKT_HUBLDGCHARTREE

Column list of the table huBldgCharTree

Name	Code
BldgChar	BldgChar
CaseID	CaseID
CharType	CharType
ExcludedBldgCharTypeList	ExcludedBldgCharTypeList
sbtName	sbtName

Column sbtName of table huBldgCharTree

Card of the column sbtName of the table huBldgCharTree

Name	sbtName
Code	sbtName
Data Type	varchar(10)
Mandatory	FALSE

Standard check of column sbtName of table huBldgCharTree

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column sbtName of table huBldgCharTree

CKC_SBTNAME_HUBLDGCH

Column CharType of table huBldgCharTree

Card of the column CharType of the table huBldgCharTree

Name	CharType
Code	CharType
Data Type	varchar(40)
Mandatory	FALSE

Standard check of column CharType of table huBldgCharTree

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CharType of table huBldgCharTree

CKC_CHARTYPE_HUBLDGCH

Column BldgChar of table huBldgCharTree

Card of the column BldgChar of the table huBldgCharTree

Name	BldgChar
Code	BldgChar
Data Type	char(5)
Mandatory	FALSE

Standard check of column BldgChar of table huBldgCharTree

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column BldgChar of table huBldgCharTree

CKC_BLDGCHAR_HUBLDGCH

Column ExcludedBldgCharTypeList of table huBldgCharTree

Card of the column ExcludedBldgCharTypeList of the table huBldgCharTree

Name	ExcludedBldgCharTypeList
Code	ExcludedBldgCharTypeList
Data Type	varchar(100)
Mandatory	FALSE

Standard check of column ExcludedBldgCharTypeList of table huBldgCharTree

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column ExcludedBldgCharTypeList of table huBldgCharTree

CKC_EXCLUDEDBLDGCHART_HUBLDGCH

Column CaseID of table huBldgCharTree

Card of the column CaseID of the table huBldgCharTree

Name	CaseID
Code	CaseID
Data Type	int
Mandatory	FALSE

Standard check of column CaseID of table huBldgCharTree

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CaseID of table huBldgCharTree

CKC_CASEID_HUBLDGCH

List of diagrams containing table huBldgCharTree

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huBldgCharTree

```
if exists (select 1
          from  sysobjects
         where  id = object_id('huBldgCharTree')
          and   type = 'U')
   drop table huBldgCharTree
go


/*==============================================================*/
/* Table: huBldgCharTree                                        */
/*==============================================================*/
create table huBldgCharTree (
sbtName              varchar(10)          null,
CharType             varchar(40)          null,
BldgChar             char(5)              null,
ExcludedBldgCharTypeList varchar(100)         null,
CaseID               int                  null
)
go
```

Table huBldgEconBIBusinessInv

Card of the table huBldgEconBIBusinessInv

Name	huBldgEconBIBusinessInv
Code	huBldgEconBIBusinessInv
DBMS	Microsoft SQL Server 2000

Constraint name of table huBldgEconBIBusinessInv

CKT_HUBLDGECONBIBUSINESSINV

Column list of the table huBldgEconBIBusinessInv

Name	Code
Occupancy	Occupancy
Value	Value

Column Occupancy of table huBldgEconBlBusinessInv

Card of the column Occupancy of the table huBldgEconBlBusinessInv

Name	Occupancy
Code	Occupancy
Data Type	char(5)
Mandatory	TRUE

Standard check of column Occupancy of table huBldgEconBlBusinessInv

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Occupancy of table huBldgEconBlBusinessInv

CKC_OCCUPANCY_HUBLDGEC

Column Value of table huBldgEconBlBusinessInv

Card of the column Value of the table huBldgEconBlBusinessInv

Name	Value
Code	Value
Data Type	real
Mandatory	FALSE

Standard check of column Value of table huBldgEconBlBusinessInv

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Value of table huBldgEconBlBusinessInv

CKC_VALUE_HUBLDGEC

Key list of the table huBldgEconBlBusinessInv

Name	Code
PK_Occupancy	PK_Occupancy

Key PK_Occupancy of table huBldgEconBlBusinessInv

Card of the key PK_Occupancy of the table huBldgEconBIBusinessInv

Name	PK_Occupancy
Code	PK_Occupancy
Table	huBldgEconBIBusinessInv

Column list of the key PK_Occupancy

Name	Code
Occupancy	Occupancy

Code preview of PK_Occupancy

```
alter table huBldgEconBIBusinessInv
  drop constraint PK_HUBLDGECONBIBUSINESSINV
go
```

Index list of the table huBldgEconBIBusinessInv

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
idtOccupancy	idtOccupancy	FALSE	FALSE	FALSE	FALSE	FALSE

Index idtOccupancy of table huBldgEconBIBusinessInv

Card of the index idtOccupancy of the table huBldgEconBIBusinessInv

Name	idtOccupancy
Code	idtOccupancy
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	FALSE
Alternate Key	FALSE
Table	huBldgEconBIBusinessInv

Column list of the index idtOccupancy

Name	Code	Sort
Occupancy	Occupancy	Ascending

Code preview of idtOccupancy

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huBldgEconBIBusinessInv

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huBldgEconBIBusinessInv

```
alter table huBldgEconBIBusinessInv
  drop constraint FK_HUBLDGEC_RLNOCC_BIBUSINV
go
```

```
if exists (select 1
          from  sysobjects
         where  id = object_id('huBldgEconBIBusinessInv')
          and   type = 'U')
   drop table huBldgEconBIBusinessInv
go


/*==============================================================*/
/* Table: huBldgEconBIBusinessInv                               */
/*==============================================================*/
create table huBldgEconBIBusinessInv (
Occupancy           char(5)             not null,
Value               real                null default 0,
constraint PK_HUBLDGECONBIBUSINESSINV primary key  (Occupancy)
)
go


alter table huBldgEconBIBusinessInv
   add constraint FK_HUBLDGEC_RLNOCC_BIBUSINV foreign key (Occupancy)
      references clOccupancy (Occupancy)
go
```

Table huEfOccMapping

Card of the table huEfOccMapping

Name	huEfOccMapping
Code	huEfOccMapping
DBMS	Microsoft SQL Server 2000

Constraint name of table huEfOccMapping

CKT_HUEFOCCMAPPING

Column list of the table huEfOccMapping

Name	Code
EFClass	EFClass
Occupancy	Occupancy

Column EFClass of table huEfOccMapping

Card of the column EFClass of the table huEfOccMapping

Name	EFClass
Code	EFClass
Data Type	char(5)
Mandatory	TRUE

Standard check of column EFClass of table huEfOccMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column EFClass of table huEfOccMapping

CKC_EFCLASS_HUEFOCCM

Column Occupancy of table huEfOccMapping

Card of the column Occupancy of the table huEfOccMapping

Name	Occupancy
Code	Occupancy
Data Type	char(10)
Mandatory	FALSE

Standard check of column Occupancy of table huEfOccMapping

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Occupancy of table huEfOccMapping

CKC_OCCUPANCY_HUEFOCCM

Key list of the table huEfOccMapping

Name	Code
PKEFClass	PKEFClass

Key PKEFClass of table huEfOccMapping

Card of the key PKEFClass of the table huEfOccMapping

Name	PKEFClass
Code	PKEFClass
Table	huEfOccMapping

Column list of the key PKEFClass

Name	Code
EFClass	EFClass

Code preview of PKEFClass

```
alter table huEfOccMapping
   drop constraint PK_HUEFOCCMAPPING
go
```

Index list of the table huEfOccMapping

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
idtEFClass	idtEFClass	TRUE	FALSE	TRUE	FALSE	FALSE

Index idtEFClass of table huEfOccMapping

Card of the index idtEFClass of the table huEfOccMapping

Name	idtEFClass
Code	idtEFClass
Unique	TRUE
Cluster	FALSE
Primary	TRUE
Foreign Key	FALSE
Alternate Key	FALSE
Table	huEfOccMapping

Column list of the index idtEFClass

Name	Code	Sort
EFClass	EFClass	Ascending

Code preview of idtEFClass

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huEfOccMapping

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huEfOccMapping

```
alter table huEfOccMapping
   drop constraint FK_HUEFOCCM_RLNHUEFOC_CLEF
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huEfOccMapping')
            and   type = 'U')
   drop table huEfOccMapping
go


/*==============================================================*/
/* Table: huEfOccMapping                                        */
/*==============================================================*/
create table huEfOccMapping (
```

```
EFClass          char(5)          not null,
Occupancy        char(10)         null,
constraint PK_HUEFOCCMAPPING primary key  (EFClass)
)
go


alter table huEfOccMapping
  add constraint FK_HUEFOCCM_RLNHUEFOC_CLEF foreign key (EFClass)
    references clEF (EfClass)
go
```

Table huSummaryDamageB

Card of the table huSummaryDamageB

Name	huSummaryDamageB
Code	huSummaryDamageB
DBMS	Microsoft SQL Server 2000

Constraint name of table huSummaryDamageB

CKT_HUSUMMARYDAMAGEB

Column list of the table huSummaryDamageB

Name	Code
CensusBlock	CensusBlock
ComDamage	ComDamage
GenBldgOrGenOcc	GenBldgOrGenOcc
MinDamage	MinDamage
ModDamage	ModDamage
NonDamage	NonDamage
ReturnPeriod	ReturnPeriod
SevDamage	SevDamage
ShelterDisp	ShelterDisp
ShelterShortTerm	ShelterShortTerm
huScenarioName	huScenarioName

Column CensusBlock of table huSummaryDamageB

Card of the column CensusBlock of the table huSummaryDamageB

Name	CensusBlock
Code	CensusBlock
Data Type	char(15)
Mandatory	TRUE

Standard check of column CensusBlock of table huSummaryDamageB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CensusBlock of table huSummaryDamageB

CKC_CENSUSBLOCK_HUSUMMAR

Column GenBldgOrGenOcc of table huSummaryDamageB

Card of the column GenBldgOrGenOcc of the table huSummaryDamageB

Name	GenBldgOrGenOcc
Code	GenBldgOrGenOcc
Data Type	varchar(20)
Mandatory	TRUE

Standard check of column GenBldgOrGenOcc of table huSummaryDamageB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column GenBldgOrGenOcc of table huSummaryDamageB

CKC_GENBLDGORGENOCC_HUSUMMAR

Column ReturnPeriod of table huSummaryDamageB

Card of the column ReturnPeriod of the table huSummaryDamageB

Name	ReturnPeriod
Code	ReturnPeriod
Data Type	varchar(25)
Mandatory	TRUE

Standard check of column ReturnPeriod of table huSummaryDamageB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column ReturnPeriod of table huSummaryDamageB

CKC_RETURNPERIOD_HUSUMMAR

Column NonDamage of table huSummaryDamageB

Card of the column NonDamage of the table huSummaryDamageB

Name	NonDamage
Code	NonDamage
Data Type	real
Mandatory	FALSE

Standard check of column NonDamage of table huSummaryDamageB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column NonDamage of table huSummaryDamageB

CKC_NONDAMAGE_HUSUMMAR

Column MinDamage of table huSummaryDamageB

Card of the column MinDamage of the table huSummaryDamageB

Name	MinDamage
Code	MinDamage
Data Type	real
Mandatory	FALSE

Standard check of column MinDamage of table huSummaryDamageB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column MinDamage of table huSummaryDamageB

CKC_MINDAMAGE_HUSUMMAR

Column ModDamage of table huSummaryDamageB

Card of the column ModDamage of the table huSummaryDamageB

Name	ModDamage
Code	ModDamage
Data Type	real
Mandatory	FALSE

Standard check of column ModDamage of table huSummaryDamageB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column ModDamage of table huSummaryDamageB

CKC_MODDAMAGE_HUSUMMAR

Column SevDamage of table huSummaryDamageB

Card of the column SevDamage of the table huSummaryDamageB

Name	SevDamage
Code	SevDamage
Data Type	real
Mandatory	FALSE

Standard check of column SevDamage of table huSummaryDamageB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SevDamage of table huSummaryDamageB

CKC_SEVDAMAGE_HUSUMMAR

Column ComDamage of table huSummaryDamageB

Card of the column ComDamage of the table huSummaryDamageB

Name	ComDamage
Code	ComDamage
Data Type	real
Mandatory	FALSE

Standard check of column ComDamage of table huSummaryDamageB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column ComDamage of table huSummaryDamageB

CKC_COMDAMAGE_HUSUMMAR

Column ShelterDisp of table huSummaryDamageB

Card of the column ShelterDisp of the table huSummaryDamageB

Name	ShelterDisp
Code	ShelterDisp
Data Type	real
Mandatory	FALSE

Standard check of column ShelterDisp of table huSummaryDamageB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column ShelterDisp of table huSummaryDamageB

CKC_SHELTERDISP_HUSUMMAR

Column ShelterShortTerm of table huSummaryDamageB

Card of the column ShelterShortTerm of the table huSummaryDamageB

Name	ShelterShortTerm
Code	ShelterShortTerm
Data Type	real
Mandatory	FALSE

Standard check of column ShelterShortTerm of table huSummaryDamageB

Low value	
High value	
Default value	0
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column ShelterShortTerm of table huSummaryDamageB

CKC_SHELTERSHORTTERM_HUSUMMAR

Column huScenarioName of table huSummaryDamageB

Card of the column huScenarioName of the table huSummaryDamageB

Name	huScenarioName
Code	huScenarioName
Data Type	varchar(40)
Mandatory	FALSE

Standard check of column huScenarioName of table huSummaryDamageB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column huScenarioName of table huSummaryDamageB

CKC_HUSCENARIONAME_HUSUMMAR

Key list of the table huSummaryDamageB

Name	Code
AK_huSumDamB	AK_huSumDamB

Key AK_huSumDamB of table huSummaryDamageB

Card of the key AK_huSumDamB of the table huSummaryDamageB

Name	AK_huSumDamB
Code	AK_huSumDamB
Table	huSummaryDamageB

Column list of the key AK_huSumDamB

Name	Code
ReturnPeriod	ReturnPeriod
GenBldgOrGenOcc	GenBldgOrGenOcc
CensusBlock	CensusBlock

Code preview of AK_huSumDamB

```
alter table huSummaryDamageB
   drop constraint PK_HUSUMMARYDAMAGEB
go
```

Index list of the table huSummaryDamageB

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
RLNBLOCK_SUMLOSS_FK	RLNBLOCK_SUMLOSS_FK	TRUE	FALSE	TRUE	FALSE	FALSE

Index RLNBLOCK_SUMLOSS_FK of table huSummaryDamageB

Card of the index RLNBLOCK_SUMLOSS_FK of the table huSummaryDamageB

Name	RLNBLOCK_SUMLOSS_FK
Code	RLNBLOCK_SUMLOSS_FK
Unique	TRUE
Cluster	FALSE
Primary	TRUE
Foreign Key	FALSE
Alternate Key	FALSE
Table	huSummaryDamageB

Column list of the index RLNBLOCK_SUMLOSS_FK

Name	Code	Sort
ReturnPeriod	ReturnPeriod	Ascending
GenBldgOrGenOcc	GenBldgOrGenOcc	Ascending
CensusBlock	CensusBlock	Ascending

Code preview of RLNBLOCK_SUMLOSS_FK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huSummaryDamageB

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huSummaryDamageB

```
alter table huSummaryDamageB
   drop constraint FK_HUSUMMAR_RLNBLOCK__HZCENSUS
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huSummaryDamageB')
            and   type = 'U')
   drop table huSummaryDamageB
go


/*==============================================================*/
/* Table: huSummaryDamageB                                      */
/*==============================================================*/
create table huSummaryDamageB (
CensusBlock          char(15)            not null,
GenBldgOrGenOcc      varchar(20)         not null,
ReturnPeriod         varchar(25)         not null,
NonDamage            real                null default 0,
MinDamage            real                null default 0,
ModDamage            real                null default 0,
SevDamage            real                null default 0,
ComDamage            real                null default 0,
ShelterDisp          real                null default 0,
ShelterShortTerm     real                null default 0,
huScenarioName       varchar(40)         null,
constraint PK_HUSUMMARYDAMAGEB primary key  (ReturnPeriod, GenBldgOrGenOcc, CensusBlock)
)
go
```

```
alter table huSummaryDamageB
  add constraint FK_HUSUMMAR_RLNBLOCK__HZCENSUS foreign key (CensusBlock)
    references hzCensusBlock (CensusBlock)
    on delete cascade on update cascade
go
```

Table huTreeParameters

Card of the table huTreeParameters

Name	huTreeParameters
Code	huTreeParameters
DBMS	Microsoft SQL Server 2000

Constraint name of table huTreeParameters

CKT_HUTREEPARAMETERS

Column list of the table huTreeParameters

Name	Code
PreDomTreeType	PreDomTreeType
StemsPerAcre	StemsPerAcre
Tract	Tract
TreeHeight40To60	TreeHeight40To60
TreeHeightGreater60	TreeHeightGreater60
TreeHeightLess40	TreeHeightLess40

Column Tract of table huTreeParameters

Card of the column Tract of the table huTreeParameters

Name	Tract
Code	Tract
Data Type	char(11)
Mandatory	TRUE

Standard check of column Tract of table huTreeParameters

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Tract of table huTreeParameters

CKC_TRACT_HUTREEPA

Column PreDomTreeType of table huTreeParameters

Card of the column PreDomTreeType of the table huTreeParameters

Name	PreDomTreeType
Code	PreDomTreeType
Data Type	varchar(20)
Mandatory	FALSE

Standard check of column PreDomTreeType of table huTreeParameters

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column PreDomTreeType of table huTreeParameters

CKC_PREDOMTREETYPE_HUTREEPA

Column StemsPerAcre of table huTreeParameters

Card of the column StemsPerAcre of the table huTreeParameters

Name	StemsPerAcre
Code	StemsPerAcre
Data Type	int
Mandatory	FALSE

Standard check of column StemsPerAcre of table huTreeParameters

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column StemsPerAcre of table huTreeParameters

CKC_STEMSPERACRE_HUTREEPA

Column TreeHeightLess40 of table huTreeParameters

Card of the column TreeHeightLess40 of the table huTreeParameters

Name	TreeHeightLess40
Code	TreeHeightLess40
Data Type	real
Mandatory	FALSE

Standard check of column TreeHeightLess40 of table huTreeParameters

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column TreeHeightLess40 of table huTreeParameters

CKC_TREEHEIGHTLESS40_HUTREEPA

Column TreeHeight40To60 of table huTreeParameters

Card of the column TreeHeight40To60 of the table huTreeParameters

Name	TreeHeight40To60
Code	TreeHeight40To60
Data Type	real
Mandatory	FALSE

Standard check of column TreeHeight40To60 of table huTreeParameters

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column TreeHeight40To60 of table huTreeParameters

CKC_TREEHEIGHT40TO60_HUTREEPA

Column TreeHeightGreater60 of table huTreeParameters

Card of the column TreeHeightGreater60 of the table huTreeParameters

Name	TreeHeightGreater60
Code	TreeHeightGreater60
Data Type	real
Mandatory	FALSE

Standard check of column TreeHeightGreater60 of table huTreeParameters

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column TreeHeightGreater60 of table huTreeParameters

CKC_TREEHEIGHTGREATER_HUTREEPA

Key list of the table huTreeParameters

Name	Code
PK_tract	PK_tract

Key PK_tract of table huTreeParameters

Card of the key PK_tract of the table huTreeParameters

Name	PK_tract
Code	PK_tract
Table	huTreeParameters

Column list of the key PK_tract

Name	Code
Tract	Tract

Code preview of PK_tract

```
alter table huTreeParameters
   drop constraint PK_HUTREEPARAMETERS
go
```

Index list of the table huTreeParameters

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
idtTract	idtTract	TRUE	FALSE	TRUE	FALSE	FALSE

Index idtTract of table huTreeParameters

Card of the index idtTract of the table huTreeParameters

Name	idtTract
Code	idtTract
Unique	TRUE
Cluster	FALSE
Primary	TRUE
Foreign Key	FALSE
Alternate Key	FALSE
Table	huTreeParameters

Column list of the index idtTract

Name	Code	Sort
Tract	Tract	Ascending

Code preview of idtTract

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huTreeParameters

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huTreeParameters

```
alter table huTreeParameters
   drop constraint FK_HUTREEPA_RLNTRACT__HZTRACT
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huTreeParameters')
            and   type = 'U')
   drop table huTreeParameters
go


/*==============================================================*/
/* Table: huTreeParameters                                      */
/*==============================================================*/
create table huTreeParameters (
Tract               char(11)            not null,
PreDomTreeType      varchar(20)         null,
StemsPerAcre        int                 null,
TreeHeightLess40    real                null,
TreeHeight40To60    real                null,
TreeHeightGreater60 real                null,
constraint PK_HUTREEPARAMETERS primary key  (Tract)
)
go


alter table huTreeParameters
   add constraint FK_HUTREEPA_RLNTRACT__HZTRACT foreign key (Tract)
      references hzTract (Tract)
go
```

Table huResultsBldgEconOutputAndEmpOccT

Card of the table huResultsBldgEconOutputAndEmpOccT

Name	huResultsBldgEconOutputAndEmpOccT
Code	huResultsBldgEconOutputAndEmpOccT
DBMS	Microsoft SQL Server 2000

Constraint name of table huResultsBldgEconOutputAndEmpOccT

CKT_HURESULTSBLDGECONOUTPUTAND

Column list of the table huResultsBldgEconOutputAndEmpOccT

Name	Code
AGR1I	AGR1I
COM10I	COM10I
COM1I	COM1I
COM2I	COM2I
COM3I	COM3I
COM4I	COM4I
COM5I	COM5I
COM6I	COM6I
COM7I	COM7I
COM8I	COM8I
COM9I	COM9I
EDU1I	EDU1I
EDU2I	EDU2I
EconLossType	EconLossType
GOV1I	GOV1I
GOV2I	GOV2I
IND1I	IND1I
IND2I	IND2I
IND3I	IND3I
IND4I	IND4I
IND5I	IND5I
IND6I	IND6I
REL1I	REL1I
RES1I	RES1I
RES2I	RES2I
RES3AI	RES3AI
RES3BI	RES3BI
RES3CI	RES3CI
RES3DI	RES3DI
RES3EI	RES3EI
RES3FI	RES3FI
RES4I	RES4I
RES5I	RES5I
RES6I	RES6I
Return_Period	Return_Period
Tract	Tract
huScenarioName	huScenarioName

Column Tract of table huResultsBldgEconOutputAndEmpOccT

Card of the column Tract of the table huResultsBldgEconOutputAndEmpOccT

Name	Tract
Code	Tract
Data Type	char(11)
Mandatory	TRUE

Standard check of column Tract of table huResultsBldgEconOutputAndEmpOccT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Tract of table huResultsBldgEconOutputAndEmpOccT

CKC_TRACT_HURESULT

Column Return_Period of table huResultsBldgEconOutputAndEmpOccT

Card of the column Return_Period of the table huResultsBldgEconOutputAndEmpOccT

Name	Return_Period
Code	Return_Period
Data Type	varchar(25)
Mandatory	TRUE

Standard check of column Return_Period of table huResultsBldgEconOutputAndEmpOccT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Return_Period of table huResultsBldgEconOutputAndEmpOccT

CKC_RETURN_PERIOD_HURESULT

Column EconLossType of table huResultsBldgEconOutputAndEmpOccT

Card of the column EconLossType of the table huResultsBldgEconOutputAndEmpOccT

Name	EconLossType
Code	EconLossType
Data Type	varchar(12)
Mandatory	TRUE

Standard check of column EconLossType of table huResultsBldgEconOutputAndEmpOccT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column EconLossType of table huResultsBldgEconOutputAndEmpOccT

CKC_ECONLOSSTYPE_HURESULT

Column RES1I of table huResultsBldgEconOutputAndEmpOccT

Card of the column RES1I of the table huResultsBldgEconOutputAndEmpOccT

Name	RES1I
Code	RES1I
Data Type	real
Mandatory	FALSE

Standard check of column RES1I of table huResultsBldgEconOutputAndEmpOccT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column RES1I of table huResultsBldgEconOutputAndEmpOccT

CKC_RES1I_HURESULT

Column RES2I of table huResultsBldgEconOutputAndEmpOccT

Card of the column RES2I of the table huResultsBldgEconOutputAndEmpOccT

Name	RES2I
Code	RES2I
Data Type	real
Mandatory	FALSE

Standard check of column RES2I of table huResultsBldgEconOutputAndEmpOccT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column RES2I of table huResultsBldgEconOutputAndEmpOccT

CKC_RES2I_HURESULT

Column RES3AI of table huResultsBldgEconOutputAndEmpOccT

Card of the column RES3AI of the table huResultsBldgEconOutputAndEmpOccT

Name	RES3AI
Code	RES3AI
Data Type	real
Mandatory	FALSE

Standard check of column RES3AI of table huResultsBldgEconOutputAndEmpOccT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column RES3AI of table huResultsBldgEconOutputAndEmpOccT

CKC_RES3AI_HURESULT

Column RES3BI of table huResultsBldgEconOutputAndEmpOccT

Card of the column RES3BI of the table huResultsBldgEconOutputAndEmpOccT

Name	RES3BI
Code	RES3BI
Data Type	real
Mandatory	FALSE

Standard check of column RES3BI of table huResultsBldgEconOutputAndEmpOccT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column RES3BI of table huResultsBldgEconOutputAndEmpOccT

CKC_RES3BI_HURESULT

Column RES3CI of table huResultsBldgEconOutputAndEmpOccT

Card of the column RES3CI of the table huResultsBldgEconOutputAndEmpOccT

Name	RES3CI
Code	RES3CI
Data Type	real
Mandatory	FALSE

Standard check of column RES3CI of table huResultsBldgEconOutputAndEmpOccT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column RES3CI of table huResultsBldgEconOutputAndEmpOccT

CKC_RES3CI_HURESULT

Column RES3DI of table huResultsBldgEconOutputAndEmpOccT

Card of the column RES3DI of the table huResultsBldgEconOutputAndEmpOccT

Name	RES3DI
Code	RES3DI
Data Type	real
Mandatory	FALSE

Standard check of column RES3DI of table huResultsBldgEconOutputAndEmpOccT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column RES3DI of table huResultsBldgEconOutputAndEmpOccT

CKC_RES3DI_HURESULT

Column RES3EI of table huResultsBldgEconOutputAndEmpOccT

Card of the column RES3EI of the table huResultsBldgEconOutputAndEmpOccT

Name	RES3EI
Code	RES3EI
Data Type	real
Mandatory	FALSE

Standard check of column RES3EI of table huResultsBldgEconOutputAndEmpOccT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column RES3EI of table huResultsBldgEconOutputAndEmpOccT

CKC_RES3EI_HURESULT

Column RES3FI of table huResultsBldgEconOutputAndEmpOccT

Card of the column RES3FI of the table huResultsBldgEconOutputAndEmpOccT

Name	RES3FI
Code	RES3FI
Data Type	real
Mandatory	FALSE

Standard check of column RES3FI of table huResultsBldgEconOutputAndEmpOccT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column RES3FI of table huResultsBldgEconOutputAndEmpOccT

CKC_RES3FI_HURESULT

Column RES4I of table huResultsBldgEconOutputAndEmpOccT

Card of the column RES4I of the table huResultsBldgEconOutputAndEmpOccT

Name	RES4I
Code	RES4I
Data Type	real
Mandatory	FALSE

Standard check of column RES4I of table huResultsBldgEconOutputAndEmpOccT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column RES4I of table huResultsBldgEconOutputAndEmpOccT

CKC_RES4I_HURESULT

Column RES5I of table huResultsBldgEconOutputAndEmpOccT

Card of the column RES5I of the table huResultsBldgEconOutputAndEmpOccT

Name	RES5I
Code	RES5I
Data Type	real
Mandatory	FALSE

Standard check of column RES5I of table huResultsBldgEconOutputAndEmpOccT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column RES5I of table huResultsBldgEconOutputAndEmpOccT

CKC_RES5I_HURESULT

Column RES6I of table huResultsBldgEconOutputAndEmpOccT

Card of the column RES6I of the table huResultsBldgEconOutputAndEmpOccT

Name	RES6I
Code	RES6I
Data Type	real
Mandatory	FALSE

Standard check of column RES6I of table huResultsBldgEconOutputAndEmpOccT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column RES6I of table huResultsBldgEconOutputAndEmpOccT

CKC_RES6I_HURESULT

Column COM1I of table huResultsBldgEconOutputAndEmpOccT

Card of the column COM1I of the table huResultsBldgEconOutputAndEmpOccT

Name	COM1I
Code	COM1I
Data Type	real
Mandatory	FALSE

Standard check of column COM1I of table huResultsBldgEconOutputAndEmpOccT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column COM1I of table huResultsBldgEconOutputAndEmpOccT

CKC_COM1I_HURESULT

Column COM2I of table huResultsBldgEconOutputAndEmpOccT

Card of the column COM2I of the table huResultsBldgEconOutputAndEmpOccT

Name	COM2I
Code	COM2I
Data Type	real
Mandatory	FALSE

Standard check of column COM2I of table huResultsBldgEconOutputAndEmpOccT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column COM2I of table huResultsBldgEconOutputAndEmpOccT

CKC_COM2I_HURESULT

Column COM3I of table huResultsBldgEconOutputAndEmpOccT

Card of the column COM3I of the table huResultsBldgEconOutputAndEmpOccT

Name	COM3I
Code	COM3I
Data Type	real
Mandatory	FALSE

Standard check of column COM3I of table huResultsBldgEconOutputAndEmpOccT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column COM3I of table huResultsBldgEconOutputAndEmpOccT

CKC_COM3I_HURESULT

Column COM4I of table huResultsBldgEconOutputAndEmpOccT

Card of the column COM4I of the table huResultsBldgEconOutputAndEmpOccT

Name	COM4I
Code	COM4I
Data Type	real
Mandatory	FALSE

Standard check of column COM4I of table huResultsBldgEconOutputAndEmpOccT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column COM4I of table huResultsBldgEconOutputAndEmpOccT

CKC_COM4I_HURESULT

Column COM5I of table huResultsBldgEconOutputAndEmpOccT

Card of the column COM5I of the table huResultsBldgEconOutputAndEmpOccT

Name	COM5I
Code	COM5I
Data Type	real
Mandatory	FALSE

Standard check of column COM5I of table huResultsBldgEconOutputAndEmpOccT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column COM5I of table huResultsBldgEconOutputAndEmpOccT

CKC_COM5I_HURESULT

Column COM6I of table huResultsBldgEconOutputAndEmpOccT

Card of the column COM6I of the table huResultsBldgEconOutputAndEmpOccT

Name	COM6I
Code	COM6I
Data Type	real
Mandatory	FALSE

Standard check of column COM6I of table huResultsBldgEconOutputAndEmpOccT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column COM6I of table huResultsBldgEconOutputAndEmpOccT

CKC_COM6I_HURESULT

Column COM7I of table huResultsBldgEconOutputAndEmpOccT

Card of the column COM7I of the table huResultsBldgEconOutputAndEmpOccT

Name	COM7I
Code	COM7I
Data Type	real
Mandatory	FALSE

Standard check of column COM7I of table huResultsBldgEconOutputAndEmpOccT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column COM7I of table huResultsBldgEconOutputAndEmpOccT

CKC_COM7I_HURESULT

Column COM8I of table huResultsBldgEconOutputAndEmpOccT

Card of the column COM8I of the table huResultsBldgEconOutputAndEmpOccT

Name	COM8I
Code	COM8I
Data Type	real
Mandatory	FALSE

Standard check of column COM8I of table huResultsBldgEconOutputAndEmpOccT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column COM8I of table huResultsBldgEconOutputAndEmpOccT

CKC_COM8I_HURESULT

Column COM9I of table huResultsBldgEconOutputAndEmpOccT

Card of the column COM9I of the table huResultsBldgEconOutputAndEmpOccT

Name	COM9I
Code	COM9I
Data Type	real
Mandatory	FALSE

Standard check of column COM9I of table huResultsBldgEconOutputAndEmpOccT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column COM9I of table huResultsBldgEconOutputAndEmpOccT

CKC_COM9I_HURESULT

Column COM10I of table huResultsBldgEconOutputAndEmpOccT

Card of the column COM10I of the table huResultsBldgEconOutputAndEmpOccT

Name	COM10I
Code	COM10I
Data Type	real
Mandatory	FALSE

Standard check of column COM10I of table huResultsBldgEconOutputAndEmpOccT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column COM10I of table huResultsBldgEconOutputAndEmpOccT

CKC_COM10I_HURESULT

Column IND1I of table huResultsBldgEconOutputAndEmpOccT

Card of the column IND1I of the table huResultsBldgEconOutputAndEmpOccT

Name	IND1I
Code	IND1I
Data Type	real
Mandatory	FALSE

Standard check of column IND1I of table huResultsBldgEconOutputAndEmpOccT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column IND1I of table huResultsBldgEconOutputAndEmpOccT

CKC_IND1I_HURESULT

Column IND2I of table huResultsBldgEconOutputAndEmpOccT

Card of the column IND2I of the table huResultsBldgEconOutputAndEmpOccT

Name	IND2I
Code	IND2I
Data Type	real
Mandatory	FALSE

Standard check of column IND2I of table huResultsBldgEconOutputAndEmpOccT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column IND2I of table huResultsBldgEconOutputAndEmpOccT

CKC_IND2I_HURESULT

Column IND3I of table huResultsBldgEconOutputAndEmpOccT

Card of the column IND3I of the table huResultsBldgEconOutputAndEmpOccT

Name	IND3I
Code	IND3I
Data Type	real
Mandatory	FALSE

Standard check of column IND3I of table huResultsBldgEconOutputAndEmpOccT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column IND3I of table huResultsBldgEconOutputAndEmpOccT

CKC_IND3I_HURESULT

Column IND4I of table huResultsBldgEconOutputAndEmpOccT

Card of the column IND4I of the table huResultsBldgEconOutputAndEmpOccT

Name	IND4I
Code	IND4I
Data Type	real
Mandatory	FALSE

Standard check of column IND4I of table huResultsBldgEconOutputAndEmpOccT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column IND4I of table huResultsBldgEconOutputAndEmpOccT

CKC_IND4I_HURESULT

Column IND5I of table huResultsBldgEconOutputAndEmpOccT

Card of the column IND5I of the table huResultsBldgEconOutputAndEmpOccT

Name	IND5I
Code	IND5I
Data Type	real
Mandatory	FALSE

Standard check of column IND5I of table huResultsBldgEconOutputAndEmpOccT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column IND5I of table huResultsBldgEconOutputAndEmpOccT

CKC_IND5I_HURESULT

Column IND6I of table huResultsBldgEconOutputAndEmpOccT

Card of the column IND6I of the table huResultsBldgEconOutputAndEmpOccT

Name	IND6I
Code	IND6I
Data Type	real
Mandatory	FALSE

Standard check of column IND6I of table huResultsBldgEconOutputAndEmpOccT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column IND6I of table huResultsBldgEconOutputAndEmpOccT

CKC_IND6I_HURESULT

Column AGR1I of table huResultsBldgEconOutputAndEmpOccT

Card of the column AGR1I of the table huResultsBldgEconOutputAndEmpOccT

Name	AGR1I
Code	AGR1I
Data Type	real
Mandatory	FALSE

Standard check of column AGR1I of table huResultsBldgEconOutputAndEmpOccT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column AGR1I of table huResultsBldgEconOutputAndEmpOccT

CKC_AGR1I_HURESULT

Column REL1I of table huResultsBldgEconOutputAndEmpOccT

Card of the column REL1I of the table huResultsBldgEconOutputAndEmpOccT

Name	REL1I
Code	REL1I
Data Type	real
Mandatory	FALSE

Standard check of column REL1I of table huResultsBldgEconOutputAndEmpOccT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column REL1I of table huResultsBldgEconOutputAndEmpOccT

CKC_REL1I_HURESULT

Column GOV1I of table huResultsBldgEconOutputAndEmpOccT

Card of the column GOV1I of the table huResultsBldgEconOutputAndEmpOccT

Name	GOV1I
Code	GOV1I
Data Type	real
Mandatory	FALSE

Standard check of column GOV1I of table huResultsBldgEconOutputAndEmpOccT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column GOV1I of table huResultsBldgEconOutputAndEmpOccT

CKC_GOV1I_HURESULT

Column GOV2I of table huResultsBldgEconOutputAndEmpOccT

Card of the column GOV2I of the table huResultsBldgEconOutputAndEmpOccT

Name	GOV2I
Code	GOV2I
Data Type	real
Mandatory	FALSE

Standard check of column GOV2I of table huResultsBldgEconOutputAndEmpOccT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column GOV2I of table huResultsBldgEconOutputAndEmpOccT

CKC_GOV2I_HURESULT

Column EDU1I of table huResultsBldgEconOutputAndEmpOccT

Card of the column EDU1I of the table huResultsBldgEconOutputAndEmpOccT

Name	EDU1I
Code	EDU1I
Data Type	real
Mandatory	FALSE

Standard check of column EDU1I of table huResultsBldgEconOutputAndEmpOccT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column EDU1I of table huResultsBldgEconOutputAndEmpOccT

CKC_EDU1I_HURESULT

Column EDU2I of table huResultsBldgEconOutputAndEmpOccT

Card of the column EDU2I of the table huResultsBldgEconOutputAndEmpOccT

Name	EDU2I
Code	EDU2I
Data Type	real
Mandatory	FALSE

Standard check of column EDU2I of table huResultsBldgEconOutputAndEmpOccT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column EDU2I of table huResultsBldgEconOutputAndEmpOccT

CKC_EDU2I_HURESULT

Column huScenarioName of table huResultsBldgEconOutputAndEmpOccT

Card of the column huScenarioName of the table huResultsBldgEconOutputAndEmpOccT

Name	huScenarioName
Code	huScenarioName
Data Type	varchar(40)
Mandatory	FALSE

Standard check of column huScenarioName of table huResultsBldgEconOutputAndEmpOccT

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column huScenarioName of table huResultsBldgEconOutputAndEmpOccT

CKC_HUSCENARIONAME_HURESULT

Key list of the table huResultsBldgEconOutputAndEmpOccT

Name	Code
idtKey	idtKey

Key idtKey of table huResultsBldgEconOutputAndEmpOccT

Card of the key idtKey of the table huResultsBldgEconOutputAndEmpOccT

Name	idtKey
Code	idtKey
Table	huResultsBldgEconOutputAndEmpOccT

Column list of the key idtKey

Name	Code
Tract	Tract
Return_Period	Return_Period
EconLossType	EconLossType

Code preview of idtKey

```
alter table huResultsBldgEconOutputAndEmpOccT
   drop constraint PK_HURESULTSBLDGECONOUTPUTANDE
go
```

Index list of the table huResultsBldgEconOutputAndEmpOccT

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
idtTract	idtTract	FALSE	FALSE	FALSE	TRUE	FALSE
idtReturn_Period	idtReturn_Period	FALSE	FALSE	FALSE	TRUE	FALSE
idtEconLossType	idtEconLossType	FALSE	FALSE	FALSE	TRUE	FALSE

Index idtTract of table huResultsBldgEconOutputAndEmpOccT

Card of the index idtTract of the table huResultsBldgEconOutputAndEmpOccT

Name	idtTract
Code	idtTract
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huResultsBldgEconOutputAndEmpOccT

Column list of the index idtTract

Name	Code	Sort
Tract	Tract	Ascending

Code preview of idtTract

The preview is empty because of the setting.
Check the generation option.

Index idtReturn_Period of table huResultsBldgEconOutputAndEmpOccT

Card of the index idtReturn_Period of the table huResultsBldgEconOutputAndEmpOccT

Name	idtReturn_Period
Code	idtReturn_Period
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huResultsBldgEconOutputAndEmpOccT

Column list of the index idtReturn_Period

Name	Code	Sort
Return_Period	Return_Period	Ascending

Code preview of idtReturn_Period

The preview is empty because of the setting.
Check the generation option.

Index idtEconLossType of table huResultsBldgEconOutputAndEmpOccT

Card of the index idtEconLossType of the table huResultsBldgEconOutputAndEmpOccT

Name	idtEconLossType
Code	idtEconLossType
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huResultsBldgEconOutputAndEmpOccT

Column list of the index idtEconLossType

Name	Code	Sort

EconLossType	EconLossType	Ascending

Code preview of idtEconLossType

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huResultsBldgEconOutputAndEmpOccT

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huResultsBldgEconOutputAndEmpOccT

```
alter table huResultsBldgEconOutputAndEmpOccT
   drop constraint FK_HURESULT_RLNTRACT__HZTRACT
go


alter table huResultsBldgEconOutputAndEmpOccT
   drop constraint FK_HURESULT_RLNRETURN_HURETURN
go


alter table huResultsBldgEconOutputAndEmpOccT
   drop constraint FK_HURESULT_RLNBLDGEC_HUBLDGEC
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huResultsBldgEconOutputAndEmpOccT')
            and   type = 'U')
   drop table huResultsBldgEconOutputAndEmpOccT
go


/*==============================================================*/
/* Table: huResultsBldgEconOutputAndEmpOccT                     */
/*==============================================================*/
create table huResultsBldgEconOutputAndEmpOccT (
Tract               char(11)            not null,
Return_Period       varchar(25)         not null,
EconLossType        varchar(12)         not null,
RES1I               real                null,
RES2I               real                null,
RES3AI              real                null,
RES3BI              real                null,
RES3CI              real                null,
RES3DI              real                null,
RES3EI              real                null,
RES3FI              real                null,
RES4I               real                null,
RES5I               real                null,
RES6I               real                null,
COM1I               real                null,
COM2I               real                null,
COM3I               real                null,
COM4I               real                null,
COM5I               real                null,
COM6I               real                null,
COM7I               real                null,
```

```
COM8I          real          null,
COM9I          real          null,
COM10I         real          null,
IND1I          real          null,
IND2I          real          null,
IND3I          real          null,
IND4I          real          null,
IND5I          real          null,
IND6I          real          null,
AGR1I          real          null,
REL1I          real          null,
GOV1I          real          null,
GOV2I          real          null,
EDU1I          real          null,
EDU2I          real          null,
huScenarioName     varchar(40)     null,
constraint PK_HURESULTSBLDGECONOUTPUTANDE primary key  (Tract, Return_Period, EconLossType)
)
go


alter table huResultsBldgEconOutputAndEmpOccT
  add constraint FK_HURESULT_RLNTRACT__HZTRACT foreign key (Tract)
    references hzTract (Tract)
go


alter table huResultsBldgEconOutputAndEmpOccT
  add constraint FK_HURESULT_RLNRETURN_HURETURN foreign key (Return_Period)
    references huReturn_Periods (Return_Period)
go


alter table huResultsBldgEconOutputAndEmpOccT
  add constraint FK_HURESULT_RLNBLDGEC_HUBLDGEC foreign key (EconLossType)
    references huBldgEconLossTypes (EconLossType)
go
```

Table huBldgEconLossTypes

Card of the table huBldgEconLossTypes

Name	huBldgEconLossTypes
Code	huBldgEconLossTypes
DBMS	Microsoft SQL Server 2000

Constraint name of table huBldgEconLossTypes

CKT_HUBLDGECONLOSSTYPES

Column list of the table huBldgEconLossTypes

Name	Code
Description	Description
EconLossType	EconLossType

Column EconLossType of table huBldgEconLossTypes

Card of the column EconLossType of the table huBldgEconLossTypes

Name	EconLossType
Code	EconLossType
Data Type	varchar(12)
Mandatory	TRUE

Standard check of column EconLossType of table huBldgEconLossTypes

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column EconLossType of table huBldgEconLossTypes

CKC_ECONLOSSTYPE_HUBLDGEC

Column Description of table huBldgEconLossTypes

Card of the column Description of the table huBldgEconLossTypes

Name	Description
Code	Description
Data Type	varchar(25)
Mandatory	FALSE

Standard check of column Description of table huBldgEconLossTypes

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Description of table huBldgEconLossTypes

CKC_DESCRIPTION_HUBLDGEC

Key list of the table huBldgEconLossTypes

Name	Code
pkEconLossType	pkEconLossType

Key pkEconLossType of table huBldgEconLossTypes

Card of the key pkEconLossType of the table huBldgEconLossTypes

Name	pkEconLossType
Code	pkEconLossType
Table	huBldgEconLossTypes

Column list of the key pkEconLossType

Name	Code
EconLossType	EconLossType

Code preview of pkEconLossType

```
alter table huBldgEconLossTypes
   drop constraint PK_HUBLDGECONLOSSTYPES
go
```

Index list of the table huBldgEconLossTypes

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
idtEconLossType	idtEconLossType	TRUE	FALSE	TRUE	FALSE	FALSE

Index idtEconLossType of table huBldgEconLossTypes

Card of the index idtEconLossType of the table huBldgEconLossTypes

Name	idtEconLossType
Code	idtEconLossType
Unique	TRUE
Cluster	FALSE
Primary	TRUE
Foreign Key	FALSE
Alternate Key	FALSE
Table	huBldgEconLossTypes

Column list of the index idtEconLossType

Name	Code	Sort
EconLossType	EconLossType	Ascending

Code preview of idtEconLossType

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huBldgEconLossTypes

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huBldgEconLossTypes

```
if exists (select 1
          from  sysobjects
          where  id = object_id('huBldgEconLossTypes')
          and   type = 'U')
   drop table huBldgEconLossTypes
go
```

```
/*==============================================================*/
/* Table: huBldgEconLossTypes                                   */
/*==============================================================*/
create table huBldgEconLossTypes (
EconLossType        varchar(12)        not null,
Description         varchar(25)        null,
constraint PK_HUBLDGECONLOSSTYPES primary key  (EconLossType)
)
go
```

Table huResultsBldgEconOutputAndEmpOccB

Card of the table huResultsBldgEconOutputAndEmpOccB

Name	huResultsBldgEconOutputAndEmpOccB
Code	huResultsBldgEconOutputAndEmpOccB
DBMS	Microsoft SQL Server 2000

Constraint name of table huResultsBldgEconOutputAndEmpOccB

CKT_HURESULTSBLDGECONOUTPUTAND

Column list of the table huResultsBldgEconOutputAndEmpOccB

Name	Code
AGR1I	AGR1I
COM10I	COM10I
COM1I	COM1I
COM2I	COM2I
COM3I	COM3I
COM4I	COM4I
COM5I	COM5I
COM6I	COM6I
COM7I	COM7I
COM8I	COM8I
COM9I	COM9I
CensusBlock	CensusBlock
EDU1I	EDU1I
EDU2I	EDU2I
EconLossType	EconLossType
GOV1I	GOV1I
GOV2I	GOV2I
IND1I	IND1I
IND2I	IND2I
IND3I	IND3I
IND4I	IND4I
IND5I	IND5I
IND6I	IND6I
REL1I	REL1I
RES1I	RES1I
RES2I	RES2I
RES3AI	RES3AI
RES3BI	RES3BI
RES3CI	RES3CI
RES3DI	RES3DI

RES3EI	RES3EI
RES3FI	RES3FI
RES4I	RES4I
RES5I	RES5I
RES6I	RES6I
Return_Period	Return_Period
huScenarioName	huScenarioName

Column CensusBlock of table huResultsBldgEconOutputAndEmpOccB

Card of the column CensusBlock of the table huResultsBldgEconOutputAndEmpOccB

Name	CensusBlock
Code	CensusBlock
Data Type	char(15)
Mandatory	TRUE

Standard check of column CensusBlock of table huResultsBldgEconOutputAndEmpOccB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CensusBlock of table huResultsBldgEconOutputAndEmpOccB

CKC_CENSUSBLOCK_HURESULT

Column Return_Period of table huResultsBldgEconOutputAndEmpOccB

Card of the column Return_Period of the table huResultsBldgEconOutputAndEmpOccB

Name	Return_Period
Code	Return_Period
Data Type	varchar(25)
Mandatory	TRUE

Standard check of column Return_Period of table huResultsBldgEconOutputAndEmpOccB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column Return_Period of table huResultsBldgEconOutputAndEmpOccB

CKC_RETURN_PERIOD_HURESULT

Column EconLossType of table huResultsBldgEconOutputAndEmpOccB

Card of the column EconLossType of the table huResultsBldgEconOutputAndEmpOccB

Name	EconLossType
Code	EconLossType
Data Type	varchar(12)
Mandatory	TRUE

Standard check of column EconLossType of table huResultsBldgEconOutputAndEmpOccB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column EconLossType of table huResultsBldgEconOutputAndEmpOccB

CKC_ECONLOSSTYPE_HURESULT

Column RES1I of table huResultsBldgEconOutputAndEmpOccB

Card of the column RES1I of the table huResultsBldgEconOutputAndEmpOccB

Name	RES1I
Code	RES1I
Data Type	real
Mandatory	FALSE

Standard check of column RES1I of table huResultsBldgEconOutputAndEmpOccB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column RES1I of table huResultsBldgEconOutputAndEmpOccB

CKC_RES1I_HURESULT

Column RES2I of table huResultsBldgEconOutputAndEmpOccB

Card of the column RES2I of the table huResultsBldgEconOutputAndEmpOccB

Name	RES2I
Code	RES2I
Data Type	real
Mandatory	FALSE

Standard check of column RES2I of table huResultsBldgEconOutputAndEmpOccB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column RES2I of table huResultsBldgEconOutputAndEmpOccB

CKC_RES2I_HURESULT

Column RES3AI of table huResultsBldgEconOutputAndEmpOccB

Card of the column RES3AI of the table huResultsBldgEconOutputAndEmpOccB

Name	RES3AI
Code	RES3AI
Data Type	real
Mandatory	FALSE

Standard check of column RES3AI of table huResultsBldgEconOutputAndEmpOccB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column RES3AI of table huResultsBldgEconOutputAndEmpOccB

CKC_RES3AI_HURESULT

Column RES3BI of table huResultsBldgEconOutputAndEmpOccB

Card of the column RES3BI of the table huResultsBldgEconOutputAndEmpOccB

Name	RES3BI
Code	RES3BI
Data Type	real
Mandatory	FALSE

Standard check of column RES3BI of table huResultsBldgEconOutputAndEmpOccB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column RES3BI of table huResultsBldgEconOutputAndEmpOccB

CKC_RES3BI_HURESULT

Column RES3CI of table huResultsBldgEconOutputAndEmpOccB

Card of the column RES3CI of the table huResultsBldgEconOutputAndEmpOccB

Name	RES3CI
Code	RES3CI
Data Type	real
Mandatory	FALSE

Standard check of column RES3CI of table huResultsBldgEconOutputAndEmpOccB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column RES3CI of table huResultsBldgEconOutputAndEmpOccB

CKC_RES3CI_HURESULT

Column RES3DI of table huResultsBldgEconOutputAndEmpOccB

Card of the column RES3DI of the table huResultsBldgEconOutputAndEmpOccB

Name	RES3DI
Code	RES3DI
Data Type	real
Mandatory	FALSE

Standard check of column RES3DI of table huResultsBldgEconOutputAndEmpOccB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column RES3DI of table huResultsBldgEconOutputAndEmpOccB

CKC_RES3DI_HURESULT

Column RES3EI of table huResultsBldgEconOutputAndEmpOccB

Card of the column RES3EI of the table huResultsBldgEconOutputAndEmpOccB

Name	RES3EI
Code	RES3EI
Data Type	real
Mandatory	FALSE

Standard check of column RES3EI of table huResultsBldgEconOutputAndEmpOccB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column RES3EI of table huResultsBldgEconOutputAndEmpOccB

CKC_RES3EI_HURESULT

Column RES3FI of table huResultsBldgEconOutputAndEmpOccB

Card of the column RES3FI of the table huResultsBldgEconOutputAndEmpOccB

Name	RES3FI
Code	RES3FI
Data Type	real
Mandatory	FALSE

Standard check of column RES3FI of table huResultsBldgEconOutputAndEmpOccB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column RES3FI of table huResultsBldgEconOutputAndEmpOccB

CKC_RES3FI_HURESULT

Column RES4I of table huResultsBldgEconOutputAndEmpOccB

Card of the column RES4I of the table huResultsBldgEconOutputAndEmpOccB

Name	RES4I
Code	RES4I
Data Type	real
Mandatory	FALSE

Standard check of column RES4I of table huResultsBldgEconOutputAndEmpOccB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column RES4I of table huResultsBldgEconOutputAndEmpOccB

CKC_RES4I_HURESULT

Column RES5I of table huResultsBldgEconOutputAndEmpOccB

Card of the column RES5I of the table huResultsBldgEconOutputAndEmpOccB

Name	RES5I
Code	RES5I
Data Type	real
Mandatory	FALSE

Standard check of column RES5I of table huResultsBldgEconOutputAndEmpOccB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column RES5I of table huResultsBldgEconOutputAndEmpOccB

CKC_RES5I_HURESULT

Column RES6I of table huResultsBldgEconOutputAndEmpOccB

Card of the column RES6I of the table huResultsBldgEconOutputAndEmpOccB

Name	RES6I
Code	RES6I
Data Type	real
Mandatory	FALSE

Standard check of column RES6I of table huResultsBldgEconOutputAndEmpOccB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column RES6I of table huResultsBldgEconOutputAndEmpOccB

CKC_RES6I_HURESULT

Column COM1I of table huResultsBldgEconOutputAndEmpOccB

Card of the column COM1I of the table huResultsBldgEconOutputAndEmpOccB

Name	COM1I
Code	COM1I
Data Type	real
Mandatory	FALSE

Standard check of column COM1I of table huResultsBldgEconOutputAndEmpOccB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column COM1I of table huResultsBldgEconOutputAndEmpOccB

CKC_COM1I_HURESULT

Column COM2I of table huResultsBldgEconOutputAndEmpOccB

Card of the column COM2I of the table huResultsBldgEconOutputAndEmpOccB

Name	COM2I
Code	COM2I
Data Type	real
Mandatory	FALSE

Standard check of column COM2I of table huResultsBldgEconOutputAndEmpOccB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column COM2I of table huResultsBldgEconOutputAndEmpOccB

CKC_COM2I_HURESULT

Column COM3I of table huResultsBldgEconOutputAndEmpOccB

Card of the column COM3I of the table huResultsBldgEconOutputAndEmpOccB

Name	COM3I
Code	COM3I
Data Type	real
Mandatory	FALSE

Standard check of column COM3I of table huResultsBldgEconOutputAndEmpOccB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column COM3I of table huResultsBldgEconOutputAndEmpOccB

CKC_COM3I_HURESULT

Column COM4I of table huResultsBldgEconOutputAndEmpOccB

Card of the column COM4I of the table huResultsBldgEconOutputAndEmpOccB

Name	COM4I
Code	COM4I
Data Type	real
Mandatory	FALSE

Standard check of column COM4I of table huResultsBldgEconOutputAndEmpOccB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column COM4I of table huResultsBldgEconOutputAndEmpOccB

CKC_COM4I_HURESULT

Column COM5I of table huResultsBldgEconOutputAndEmpOccB

Card of the column COM5I of the table huResultsBldgEconOutputAndEmpOccB

Name	COM5I
Code	COM5I
Data Type	real
Mandatory	FALSE

Standard check of column COM5I of table huResultsBldgEconOutputAndEmpOccB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column COM5I of table huResultsBldgEconOutputAndEmpOccB

CKC_COM5I_HURESULT

Column COM6I of table huResultsBldgEconOutputAndEmpOccB

Card of the column COM6I of the table huResultsBldgEconOutputAndEmpOccB

Name	COM6I
Code	COM6I
Data Type	real
Mandatory	FALSE

Standard check of column COM6I of table huResultsBldgEconOutputAndEmpOccB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column COM6I of table huResultsBldgEconOutputAndEmpOccB

CKC_COM6I_HURESULT

Column COM7I of table huResultsBldgEconOutputAndEmpOccB

Card of the column COM7I of the table huResultsBldgEconOutputAndEmpOccB

Name	COM7I
Code	COM7I
Data Type	real
Mandatory	FALSE

Standard check of column COM7I of table huResultsBldgEconOutputAndEmpOccB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column COM7I of table huResultsBldgEconOutputAndEmpOccB

CKC_COM7I_HURESULT

Column COM8I of table huResultsBldgEconOutputAndEmpOccB

Card of the column COM8I of the table huResultsBldgEconOutputAndEmpOccB

Name	COM8I
Code	COM8I
Data Type	real
Mandatory	FALSE

Standard check of column COM8I of table huResultsBldgEconOutputAndEmpOccB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column COM8I of table huResultsBldgEconOutputAndEmpOccB

CKC_COM8I_HURESULT

Column COM9I of table huResultsBldgEconOutputAndEmpOccB

Card of the column COM9I of the table huResultsBldgEconOutputAndEmpOccB

Name	COM9I
Code	COM9I
Data Type	real
Mandatory	FALSE

Standard check of column COM9I of table huResultsBldgEconOutputAndEmpOccB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column COM9I of table huResultsBldgEconOutputAndEmpOccB

CKC_COM9I_HURESULT

Column COM10I of table huResultsBldgEconOutputAndEmpOccB

Card of the column COM10I of the table huResultsBldgEconOutputAndEmpOccB

Name	COM10I
Code	COM10I
Data Type	real
Mandatory	FALSE

Standard check of column COM10I of table huResultsBldgEconOutputAndEmpOccB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column COM10I of table huResultsBldgEconOutputAndEmpOccB

CKC_COM10I_HURESULT

Column IND1I of table huResultsBldgEconOutputAndEmpOccB

Card of the column IND1I of the table huResultsBldgEconOutputAndEmpOccB

Name	IND1I
Code	IND1I
Data Type	real
Mandatory	FALSE

Standard check of column IND1I of table huResultsBldgEconOutputAndEmpOccB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column IND1I of table huResultsBldgEconOutputAndEmpOccB

CKC_IND1I_HURESULT

Column IND2I of table huResultsBldgEconOutputAndEmpOccB

Card of the column IND2I of the table huResultsBldgEconOutputAndEmpOccB

Name	IND2I
Code	IND2I
Data Type	real
Mandatory	FALSE

Standard check of column IND2I of table huResultsBldgEconOutputAndEmpOccB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column IND2I of table huResultsBldgEconOutputAndEmpOccB

CKC_IND2I_HURESULT

Column IND3I of table huResultsBldgEconOutputAndEmpOccB

Card of the column IND3I of the table huResultsBldgEconOutputAndEmpOccB

Name	IND3I
Code	IND3I
Data Type	real
Mandatory	FALSE

Standard check of column IND3I of table huResultsBldgEconOutputAndEmpOccB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column IND3I of table huResultsBldgEconOutputAndEmpOccB

CKC_IND3I_HURESULT

Column IND4I of table huResultsBldgEconOutputAndEmpOccB

Card of the column IND4I of the table huResultsBldgEconOutputAndEmpOccB

Name	IND4I
Code	IND4I
Data Type	real
Mandatory	FALSE

Standard check of column IND4I of table huResultsBldgEconOutputAndEmpOccB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column IND4I of table huResultsBldgEconOutputAndEmpOccB

CKC_IND4I_HURESULT

Column IND5I of table huResultsBldgEconOutputAndEmpOccB

Card of the column IND5I of the table huResultsBldgEconOutputAndEmpOccB

Name	IND5I
Code	IND5I
Data Type	real
Mandatory	FALSE

Standard check of column IND5I of table huResultsBldgEconOutputAndEmpOccB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column IND5I of table huResultsBldgEconOutputAndEmpOccB

CKC_IND5I_HURESULT

Column IND6I of table huResultsBldgEconOutputAndEmpOccB

Card of the column IND6I of the table huResultsBldgEconOutputAndEmpOccB

Name	IND6I
Code	IND6I
Data Type	real
Mandatory	FALSE

Standard check of column IND6I of table huResultsBldgEconOutputAndEmpOccB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column IND6I of table huResultsBldgEconOutputAndEmpOccB

CKC_IND6I_HURESULT

Column AGR1I of table huResultsBldgEconOutputAndEmpOccB

Card of the column AGR1I of the table huResultsBldgEconOutputAndEmpOccB

Name	AGR1I
Code	AGR1I
Data Type	real
Mandatory	FALSE

Standard check of column AGR1I of table huResultsBldgEconOutputAndEmpOccB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column AGR1I of table huResultsBldgEconOutputAndEmpOccB

CKC_AGR1I_HURESULT

Column REL1I of table huResultsBldgEconOutputAndEmpOccB

Card of the column REL1I of the table huResultsBldgEconOutputAndEmpOccB

Name	REL1I
Code	REL1I
Data Type	real
Mandatory	FALSE

Standard check of column REL1I of table huResultsBldgEconOutputAndEmpOccB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column REL1I of table huResultsBldgEconOutputAndEmpOccB

CKC_REL1I_HURESULT

Column GOV1I of table huResultsBldgEconOutputAndEmpOccB

Card of the column GOV1I of the table huResultsBldgEconOutputAndEmpOccB

Name	GOV1I
Code	GOV1I
Data Type	real
Mandatory	FALSE

Standard check of column GOV1I of table huResultsBldgEconOutputAndEmpOccB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column GOV1I of table huResultsBldgEconOutputAndEmpOccB

CKC_GOV1I_HURESULT

Column GOV2I of table huResultsBldgEconOutputAndEmpOccB

Card of the column GOV2I of the table huResultsBldgEconOutputAndEmpOccB

Name	GOV2I
Code	GOV2I
Data Type	real
Mandatory	FALSE

Standard check of column GOV2I of table huResultsBldgEconOutputAndEmpOccB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column GOV2I of table huResultsBldgEconOutputAndEmpOccB

CKC_GOV2I_HURESULT

Column EDU1I of table huResultsBldgEconOutputAndEmpOccB

Card of the column EDU1I of the table huResultsBldgEconOutputAndEmpOccB

Name	EDU1I
Code	EDU1I
Data Type	real
Mandatory	FALSE

Standard check of column EDU1I of table huResultsBldgEconOutputAndEmpOccB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column EDU1I of table huResultsBldgEconOutputAndEmpOccB

CKC_EDU1I_HURESULT

Column EDU2I of table huResultsBldgEconOutputAndEmpOccB

Card of the column EDU2I of the table huResultsBldgEconOutputAndEmpOccB

Name	EDU2I
Code	EDU2I
Data Type	real
Mandatory	FALSE

Standard check of column EDU2I of table huResultsBldgEconOutputAndEmpOccB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column EDU2I of table huResultsBldgEconOutputAndEmpOccB

CKC_EDU2I_HURESULT

Column huScenarioName of table huResultsBldgEconOutputAndEmpOccB

Card of the column huScenarioName of the table huResultsBldgEconOutputAndEmpOccB

Name	huScenarioName
Code	huScenarioName
Data Type	varchar(40)
Mandatory	FALSE

Standard check of column huScenarioName of table huResultsBldgEconOutputAndEmpOccB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column huScenarioName of table huResultsBldgEconOutputAndEmpOccB

CKC_HUSCENARIONAME_HURESULT

Key list of the table huResultsBldgEconOutputAndEmpOccB

Name	Code
idtKey	idtKey

Key idtKey of table huResultsBldgEconOutputAndEmpOccB

Card of the key idtKey of the table huResultsBldgEconOutputAndEmpOccB

Name	idtKey
Code	idtKey
Table	huResultsBldgEconOutputAndEmpOccB

Column list of the key idtKey

Name	Code
CensusBlock	CensusBlock
Return_Period	Return_Period
EconLossType	EconLossType

Code preview of idtKey

```
alter table huResultsBldgEconOutputAndEmpOccB
  drop constraint PK_HURLTSBLDGECONOUTPUTAEMPB
go
```

Index list of the table huResultsBldgEconOutputAndEmpOccB

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
idtBlock	idtBlock	FALSE	FALSE	FALSE	TRUE	FALSE
idtReturn_Period	idtReturn_Period	FALSE	FALSE	FALSE	TRUE	FALSE
idtEconLossType	idtEconLossType	FALSE	FALSE	FALSE	TRUE	FALSE

Index idtBlock of table huResultsBldgEconOutputAndEmpOccB

Card of the index idtBlock of the table huResultsBldgEconOutputAndEmpOccB

Name	idtBlock
Code	idtBlock
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huResultsBldgEconOutputAndEmpOccB

Column list of the index idtBlock

Name	Code	Sort
CensusBlock	CensusBlock	Ascending

Code preview of idtBlock

The preview is empty because of the setting.
Check the generation option.

Index idtReturn_Period of table huResultsBldgEconOutputAndEmpOccB

Card of the index idtReturn_Period of the table huResultsBldgEconOutputAndEmpOccB

Name	idtReturn_Period
Code	idtReturn_Period
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huResultsBldgEconOutputAndEmpOccB

Column list of the index idtReturn_Period

Name	Code	Sort
Return_Period	Return_Period	Ascending

Code preview of idtReturn_Period

The preview is empty because of the setting.
Check the generation option.

Index idtEconLossType of table huResultsBldgEconOutputAndEmpOccB

Card of the index idtEconLossType of the table huResultsBldgEconOutputAndEmpOccB

Name	idtEconLossType
Code	idtEconLossType
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	TRUE
Alternate Key	FALSE
Table	huResultsBldgEconOutputAndEmpOccB

Column list of the index idtEconLossType

Name	Code	Sort
EconLossType	EconLossType	Ascending

Code preview of idtEconLossType

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huResultsBldgEconOutputAndEmpOccB

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huResultsBldgEconOutputAndEmpOccB

```
alter table huResultsBldgEconOutputAndEmpOccB
   drop constraint FK_HURESULT_RLNBLOCK__HZCENSUS
go


alter table huResultsBldgEconOutputAndEmpOccB
   drop constraint FK_HURESULT_RLN2RETUR_HURETURN
go


alter table huResultsBldgEconOutputAndEmpOccB
   drop constraint FK_HURESULT_RLN2BLDGE_HUBLDGEC
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huResultsBldgEconOutputAndEmpOccB')
            and   type = 'U')
   drop table huResultsBldgEconOutputAndEmpOccB
go


/*==============================================================*/
/* Table: huResultsBldgEconOutputAndEmpOccB                     */
/*==============================================================*/
create table huResultsBldgEconOutputAndEmpOccB (
CensusBlock          char(15)             not null,
Return_Period        varchar(25)          not null,
EconLossType         varchar(12)          not null,
RES1I                real                 null,
RES2I                real                 null,
RES3AI               real                 null,
RES3BI               real                 null,
RES3CI               real                 null,
RES3DI               real                 null,
RES3EI               real                 null,
RES3FI               real                 null,
RES4I                real                 null,
RES5I                real                 null,
RES6I                real                 null,
COM1I                real                 null,
COM2I                real                 null,
COM3I                real                 null,
COM4I                real                 null,
COM5I                real                 null,
COM6I                real                 null,
COM7I                real                 null,
```

```
COM8I          real          null,
COM9I          real          null,
COM10I         real          null,
IND1I          real          null,
IND2I          real          null,
IND3I          real          null,
IND4I          real          null,
IND5I          real          null,
IND6I          real          null,
AGR1I          real          null,
REL1I          real          null,
GOV1I          real          null,
GOV2I          real          null,
EDU1I          real          null,
EDU2I          real          null,
huScenarioName     varchar(40)     null,
constraint PK_HURLTSBLDGECONOUTPUTAEMPB primary key  (CensusBlock, Return_Period, EconLossType)
)
go


alter table huResultsBldgEconOutputAndEmpOccB
  add constraint FK_HURESULT_RLNBLOCK__HZCENSUS foreign key (CensusBlock)
    references hzCensusBlock (CensusBlock)
go


alter table huResultsBldgEconOutputAndEmpOccB
  add constraint FK_HURESULT_RLN2RETUR_HURETURN foreign key (Return_Period)
    references huReturn_Periods (Return_Period)
go


alter table huResultsBldgEconOutputAndEmpOccB
  add constraint FK_HURESULT_RLN2BLDGE_HUBLDGEC foreign key (EconLossType)
    references huBldgEconLossTypes (EconLossType)
go
```

Table huRPWindSpeedsB

Card of the table huRPWindSpeedsB

Name	huRPWindSpeedsB
Code	huRPWindSpeedsB
DBMS	Microsoft SQL Server 2000

Constraint name of table huRPWindSpeedsB

CKT_HURPWINDSPEEDSB

Column list of the table huRPWindSpeedsB

Name	Code
CensusBlock	CensusBlock
wRtnP1	wRtnP1
wRtnP2	wRtnP2
wRtnP3	wRtnP3
wRtnP4	wRtnP4
wRtnP5	wRtnP5

wRtnP6	wRtnP6
wRtnP7	wRtnP7

Column CensusBlock of table huRPWindSpeedsB

Card of the column CensusBlock of the table huRPWindSpeedsB

Name	CensusBlock
Code	CensusBlock
Data Type	char(15)
Mandatory	TRUE

Standard check of column CensusBlock of table huRPWindSpeedsB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CensusBlock of table huRPWindSpeedsB

CKC_CENSUSBLOCK_HURPWIND

Column wRtnP1 of table huRPWindSpeedsB

Card of the column wRtnP1 of the table huRPWindSpeedsB

Name	wRtnP1
Code	wRtnP1
Data Type	smallint
Mandatory	FALSE

Standard check of column wRtnP1 of table huRPWindSpeedsB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column wRtnP1 of table huRPWindSpeedsB

CKC_WRTNP1_HURPWIND

Column wRtnP2 of table huRPWindSpeedsB

Card of the column wRtnP2 of the table huRPWindSpeedsB

Name	wRtnP2
Code	wRtnP2
Data Type	smallint
Mandatory	FALSE

Standard check of column wRtnP2 of table huRPWindSpeedsB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column wRtnP2 of table huRPWindSpeedsB

CKC_WRTNP2_HURPWIND

Column wRtnP3 of table huRPWindSpeedsB

Card of the column wRtnP3 of the table huRPWindSpeedsB

Name	wRtnP3
Code	wRtnP3
Data Type	smallint
Mandatory	FALSE

Standard check of column wRtnP3 of table huRPWindSpeedsB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column wRtnP3 of table huRPWindSpeedsB

CKC_WRTNP3_HURPWIND

Column wRtnP4 of table huRPWindSpeedsB

Card of the column wRtnP4 of the table huRPWindSpeedsB

Name	wRtnP4
Code	wRtnP4
Data Type	smallint
Mandatory	FALSE

Standard check of column wRtnP4 of table huRPWindSpeedsB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column wRtnP4 of table huRPWindSpeedsB

CKC_WRTNP4_HURPWIND

Column wRtnP5 of table huRPWindSpeedsB

Card of the column wRtnP5 of the table huRPWindSpeedsB

Name	wRtnP5
Code	wRtnP5
Data Type	smallint
Mandatory	FALSE

Standard check of column wRtnP5 of table huRPWindSpeedsB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column wRtnP5 of table huRPWindSpeedsB

CKC_WRTNP5_HURPWIND

Column wRtnP6 of table huRPWindSpeedsB

Card of the column wRtnP6 of the table huRPWindSpeedsB

Name	wRtnP6
Code	wRtnP6
Data Type	smallint
Mandatory	FALSE

Standard check of column wRtnP6 of table huRPWindSpeedsB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column wRtnP6 of table huRPWindSpeedsB

CKC_WRTNP6_HURPWIND

Column wRtnP7 of table huRPWindSpeedsB

Card of the column wRtnP7 of the table huRPWindSpeedsB

Name	wRtnP7
Code	wRtnP7
Data Type	smallint
Mandatory	FALSE

Standard check of column wRtnP7 of table huRPWindSpeedsB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column wRtnP7 of table huRPWindSpeedsB

CKC_WRTNP7_HURPWIND

Key list of the table huRPWindSpeedsB

Name	Code
idtKey	idtKey

Key idtKey of table huRPWindSpeedsB

Card of the key idtKey of the table huRPWindSpeedsB

Name	idtKey
Code	idtKey
Table	huRPWindSpeedsB

Column list of the key idtKey

Name	Code
CensusBlock	CensusBlock

Code preview of idtKey

```
alter table huRPWindSpeedsB
   drop constraint PK_HURPWINDSPEEDSB
go
```

Index list of the table huRPWindSpeedsB

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
idtBlock_RPwindSpeeds	idtBlock_RPwindSpeeds	FALSE	FALSE	FALSE	FALSE	FALSE

Index idtBlock_RPwindSpeeds of table huRPWindSpeedsB

Card of the index idtBlock_RPwindSpeeds of the table huRPWindSpeedsB

Name	idtBlock_RPwindSpeeds
Code	idtBlock_RPwindSpeeds
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	FALSE
Alternate Key	FALSE
Table	huRPWindSpeedsB

Column list of the index idtBlock_RPwindSpeeds

Name	Code	Sort
CensusBlock	CensusBlock	Ascending

Code preview of idtBlock_RPwindSpeeds

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huRPWindSpeedsB

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huRPWindSpeedsB

```
alter table huRPWindSpeedsB
   drop constraint FK_HURPWIND_RLNBLOCK__HZCENSUS
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huRPWindSpeedsB')
            and   type = 'U')
   drop table huRPWindSpeedsB
go


/*==============================================================*/
/* Table: huRPWindSpeedsB                                       */
/*==============================================================*/
create table huRPWindSpeedsB (
```

```
CensusBlock        char(15)        not null,
wRtnP1             smallint        null,
wRtnP2             smallint        null,
wRtnP3             smallint        null,
wRtnP4             smallint        null,
wRtnP5             smallint        null,
wRtnP6             smallint        null,
wRtnP7             smallint        null,
constraint PK_HURPWINDSPEEDSB primary key  (CensusBlock)
)
go


alter table huRPWindSpeedsB
  add constraint FK_HURPWIND_RLNBLOCK__HZCENSUS foreign key (CensusBlock)
    references hzCensusBlock (CensusBlock)
    on delete cascade on update cascade
go
```

Table huHazardMapWindSpeedB

Card of the table huHazardMapWindSpeedB

Name	huHazardMapWindSpeedB
Code	huHazardMapWindSpeedB
DBMS	Microsoft SQL Server 2000

Constraint name of table huHazardMapWindSpeedB

CKT_HUHAZARDMAPWINDSPEEDB

Column list of the table huHazardMapWindSpeedB

Name	Code
CensusBlock	CensusBlock
f1000yr	f1000yr
f100yr	f100yr
f10yr	f10yr
f200yr	f200yr
f20yr	f20yr
f500yr	f500yr
f50yr	f50yr

Column CensusBlock of table huHazardMapWindSpeedB

Card of the column CensusBlock of the table huHazardMapWindSpeedB

Name	CensusBlock
Code	CensusBlock
Data Type	char(15)
Mandatory	TRUE

Standard check of column CensusBlock of table huHazardMapWindSpeedB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CensusBlock of table huHazardMapWindSpeedB

CKC_CENSUSBLOCK_HUHAZARD

Column f10yr of table huHazardMapWindSpeedB

Card of the column f10yr of the table huHazardMapWindSpeedB

Name	f10yr
Code	f10yr
Data Type	real
Mandatory	FALSE

Standard check of column f10yr of table huHazardMapWindSpeedB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column f10yr of table huHazardMapWindSpeedB

CKC_F10YR_HUHAZARD

Column f20yr of table huHazardMapWindSpeedB

Card of the column f20yr of the table huHazardMapWindSpeedB

Name	f20yr
Code	f20yr
Data Type	real
Mandatory	FALSE

Standard check of column f20yr of table huHazardMapWindSpeedB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column f20yr of table huHazardMapWindSpeedB

CKC_F20YR_HUHAZARD

Column f50yr of table huHazardMapWindSpeedB

Card of the column f50yr of the table huHazardMapWindSpeedB

Name	f50yr
Code	f50yr
Data Type	real
Mandatory	FALSE

Standard check of column f50yr of table huHazardMapWindSpeedB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column f50yr of table huHazardMapWindSpeedB

CKC_F50YR_HUHAZARD

Column f100yr of table huHazardMapWindSpeedB

Card of the column f100yr of the table huHazardMapWindSpeedB

Name	f100yr
Code	f100yr
Data Type	real
Mandatory	FALSE

Standard check of column f100yr of table huHazardMapWindSpeedB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column f100yr of table huHazardMapWindSpeedB

CKC_F100YR_HUHAZARD

Column f200yr of table huHazardMapWindSpeedB

Card of the column f200yr of the table huHazardMapWindSpeedB

Name	f200yr
Code	f200yr
Data Type	real
Mandatory	FALSE

Standard check of column f200yr of table huHazardMapWindSpeedB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column f200yr of table huHazardMapWindSpeedB

CKC_F200YR_HUHAZARD

Column f500yr of table huHazardMapWindSpeedB

Card of the column f500yr of the table huHazardMapWindSpeedB

Name	f500yr
Code	f500yr
Data Type	real
Mandatory	FALSE

Standard check of column f500yr of table huHazardMapWindSpeedB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column f500yr of table huHazardMapWindSpeedB

CKC_F500YR_HUHAZARD

Column f1000yr of table huHazardMapWindSpeedB

Card of the column f1000yr of the table huHazardMapWindSpeedB

Name	f1000yr
Code	f1000yr
Data Type	real
Mandatory	FALSE

Standard check of column f1000yr of table huHazardMapWindSpeedB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column f1000yr of table huHazardMapWindSpeedB

CKC_F1000YR_HUHAZARD

Key list of the table huHazardMapWindSpeedB

Name	Code
idtHazardMapWSKey	idtHazardMapWSKey

Key idtHazardMapWSKey of table huHazardMapWindSpeedB

Card of the key idtHazardMapWSKey of the table huHazardMapWindSpeedB

Name	idtHazardMapWSKey
Code	idtHazardMapWSKey
Table	huHazardMapWindSpeedB

Column list of the key idtHazardMapWSKey

Name	Code
CensusBlock	CensusBlock

Code preview of idtHazardMapWSKey

```
alter table huHazardMapWindSpeedB
   drop constraint PK_HUHAZARDMAPWINDSPEEDB
go
```

Index list of the table huHazardMapWindSpeedB

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
idtBlock_HazardMapWS	idtBlock_HazardMapWS	TRUE	FALSE	TRUE	FALSE	FALSE

Index idtBlock_HazardMapWS of table huHazardMapWindSpeedB

Card of the index idtBlock_HazardMapWS of the table huHazardMapWindSpeedB

Name	idtBlock_HazardMapWS
Code	idtBlock_HazardMapWS
Unique	TRUE
Cluster	FALSE
Primary	TRUE
Foreign Key	FALSE
Alternate Key	FALSE
Table	huHazardMapWindSpeedB

Column list of the index idtBlock_HazardMapWS

Name	Code	Sort
CensusBlock	CensusBlock	Ascending

Code preview of idtBlock_HazardMapWS

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huHazardMapWindSpeedB

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huHazardMapWindSpeedB

```
alter table huHazardMapWindSpeedB
   drop constraint FK_HUHAZARD_RLNBLOCK__HZCENSUS
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huHazardMapWindSpeedB')
            and   type = 'U')
   drop table huHazardMapWindSpeedB
go


/*==============================================================*/
/* Table: huHazardMapWindSpeedB                                 */
/*==============================================================*/
create table huHazardMapWindSpeedB (
```

```
CensusBlock        char(15)          not null,
f10yr              real              null,
f20yr              real              null,
f50yr              real              null,
f100yr             real              null,
f200yr             real              null,
f500yr             real              null,
f1000yr            real              null,
constraint PK_HUHAZARDMAPWINDSPEEDB primary key  (CensusBlock)
)
go


alter table huHazardMapWindSpeedB
  add constraint FK_HUHAZARD_RLNBLOCK__HZCENSUS foreign key (CensusBlock)
    references hzCensusBlock (CensusBlock)
go
```

Table huTerrainB

Card of the table huTerrainB

Name	huTerrainB
Code	huTerrainB
DBMS	Microsoft SQL Server 2000

Constraint name of table huTerrainB

CKT_HUTERRAINB

Column list of the table huTerrainB

Name	Code
CensusBlock	CensusBlock
SRindex	SRindex
SurfaceRoughness	SURFACEROUGHNESS

Column CensusBlock of table huTerrainB

Card of the column CensusBlock of the table huTerrainB

Name	CensusBlock
Code	CensusBlock
Data Type	char(15)
Mandatory	TRUE

Standard check of column CensusBlock of table huTerrainB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CensusBlock of table huTerrainB

CKC_CENSUSBLOCK_HUTERRAI

Column SurfaceRoughness of table huTerrainB

Card of the column SurfaceRoughness of the table huTerrainB

Name	SurfaceRoughness
Code	SURFACEROUGHNESS
Data Type	real
Mandatory	FALSE

Standard check of column SurfaceRoughness of table huTerrainB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SurfaceRoughness of table huTerrainB

CKC_SURFACEROUGHNESS_HUTERRAI

Column SRindex of table huTerrainB

Card of the column SRindex of the table huTerrainB

Name	SRindex
Code	SRindex
Data Type	float
Mandatory	FALSE

Standard check of column SRindex of table huTerrainB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column SRindex of table huTerrainB

CKC_SRINDEX_HUTERRAI

Key list of the table huTerrainB

Name	Code
idtKey	idtKey

Key idtKey of table huTerrainB

Card of the key idtKey of the table huTerrainB

Name	idtKey
Code	idtKey
Table	huTerrainB

Column list of the key idtKey

Name	Code
CensusBlock	CensusBlock

Code preview of idtKey

```
alter table huTerrainB
   drop constraint PK_HUTERRAINB
go
```

Index list of the table huTerrainB

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
RLNBlock_HUZO_FK	RLNBlock_HUZO_FK	FALSE	FALSE	FALSE	FALSE	FALSE

Index RLNBlock_HUZO_FK of table huTerrainB

Card of the index RLNBlock_HUZO_FK of the table huTerrainB

Name	RLNBlock_HUZO_FK
Code	RLNBlock_HUZO_FK
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	FALSE
Alternate Key	FALSE
Table	huTerrainB

Column list of the index RLNBlock_HUZO_FK

Name	Code	Sort
CensusBlock	CensusBlock	Ascending

Code preview of RLNBlock_HUZO_FK

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huTerrainB

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huTerrainB

```
alter table huTerrainB
   drop constraint FK_HUTERRAI_RLNBLOCK__HZCENSUS
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huTerrainB')
            and   type = 'U')
   drop table huTerrainB
go


/*==============================================================*/
/* Table: huTerrainB                                            */
/*==============================================================*/
create table huTerrainB (
CensusBlock          char(15)             not null,
SURFACEROUGHNESS     real                 null,
SRindex              AS ((round(([SURFACEROUGHNESS] * 100),3))),
constraint PK_HUTERRAINB primary key  (CensusBlock)
)
go


alter table huTerrainB
   add constraint FK_HUTERRAI_RLNBLOCK__HZCENSUS foreign key (CensusBlock)
      references hzCensusBlock (CensusBlock)
go
```

Table huTreeParametersB

Card of the table huTreeParametersB

Name	huTreeParametersB
Code	huTreeParametersB
DBMS	Microsoft SQL Server 2000

Constraint name of table huTreeParametersB

CKT_HUTREEPARAMETERSB

Column list of the table huTreeParametersB

Name	Code
CensusBlock	CensusBlock
PreDomTreeType	PreDomTreeType
StemsPerAcre	StemsPerAcre
TreeHeight40To60	TreeHeight40To60
TreeHeightGreater60	TreeHeightGreater60
TreeHeightLess40	TreeHeightLess40

Column CensusBlock of table huTreeParametersB

Card of the column CensusBlock of the table huTreeParametersB

Name	CensusBlock
Code	CensusBlock
Data Type	char(15)
Mandatory	TRUE

Standard check of column CensusBlock of table huTreeParametersB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CensusBlock of table huTreeParametersB

CKC_CENSUSBLOCK_HUTREEPA

Column PreDomTreeType of table huTreeParametersB

Card of the column PreDomTreeType of the table huTreeParametersB

Name	PreDomTreeType
Code	PreDomTreeType
Data Type	varchar(20)
Mandatory	FALSE

Standard check of column PreDomTreeType of table huTreeParametersB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column PreDomTreeType of table huTreeParametersB

CKC_PREDOMTREETYPE_HUTREEPA

Column StemsPerAcre of table huTreeParametersB

Card of the column StemsPerAcre of the table huTreeParametersB

Name	StemsPerAcre
Code	StemsPerAcre
Data Type	int
Mandatory	FALSE

Standard check of column StemsPerAcre of table huTreeParametersB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column StemsPerAcre of table huTreeParametersB

CKC_STEMSPERACRE_HUTREEPA

Column TreeHeightLess40 of table huTreeParametersB

Card of the column TreeHeightLess40 of the table huTreeParametersB

Name	TreeHeightLess40
Code	TreeHeightLess40
Data Type	real
Mandatory	FALSE

Standard check of column TreeHeightLess40 of table huTreeParametersB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column TreeHeightLess40 of table huTreeParametersB

CKC_TREEHEIGHTLESS40_HUTREEPA

Column TreeHeight40To60 of table huTreeParametersB

Card of the column TreeHeight40To60 of the table huTreeParametersB

Name	TreeHeight40To60
Code	TreeHeight40To60
Data Type	real
Mandatory	FALSE

Standard check of column TreeHeight40To60 of table huTreeParametersB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column TreeHeight40To60 of table huTreeParametersB

CKC_TREEHEIGHT40TO60_HUTREEPA

Column TreeHeightGreater60 of table huTreeParametersB

Card of the column TreeHeightGreater60 of the table huTreeParametersB

Name	TreeHeightGreater60
Code	TreeHeightGreater60
Data Type	real
Mandatory	FALSE

Standard check of column TreeHeightGreater60 of table huTreeParametersB

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column TreeHeightGreater60 of table huTreeParametersB

CKC_TREEHEIGHTGREATER_HUTREEPA

Key list of the table huTreeParametersB

Name	Code
PK_block	PK_block

Key PK_block of table huTreeParametersB

Card of the key PK_block of the table huTreeParametersB

Name	PK_block
Code	PK_block
Table	huTreeParametersB

Column list of the key PK_block

Name	Code
CensusBlock	CensusBlock

Code preview of PK_block

```
alter table huTreeParametersB
   drop constraint PK_HUTREEPARAMETERSB
go
```

Index list of the table huTreeParametersB

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
idtBlock	idtBlock	TRUE	FALSE	TRUE	FALSE	FALSE

Index idtBlock of table huTreeParametersB

Card of the index idtBlock of the table huTreeParametersB

Name	idtBlock
Code	idtBlock
Unique	TRUE
Cluster	FALSE
Primary	TRUE
Foreign Key	FALSE
Alternate Key	FALSE
Table	huTreeParametersB

Column list of the index idtBlock

Name	Code	Sort
CensusBlock	CensusBlock	Ascending

Code preview of idtBlock

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huTreeParametersB

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huTreeParametersB

```
alter table huTreeParametersB
   drop constraint FK_HUTREEPA_RLNBLOCK__HZCENSUS
go


if exists (select 1
            from  sysobjects
           where  id = object_id('huTreeParametersB')
            and   type = 'U')
   drop table huTreeParametersB
go


/*==============================================================*/
/* Table: huTreeParametersB                                     */
/*==============================================================*/
create table huTreeParametersB (
CensusBlock          char(15)             not null,
PreDomTreeType       varchar(20)          null,
StemsPerAcre         int                  null,
TreeHeightLess40     real                 null,
TreeHeight40To60     real                 null,
TreeHeightGreater60  real                 null,
constraint PK_HUTREEPARAMETERSB primary key  (CensusBlock)
)
go


alter table huTreeParametersB
   add constraint FK_HUTREEPA_RLNBLOCK__HZCENSUS foreign key (CensusBlock)
      references hzCensusBlock (CensusBlock)
go
```

Table huTemplateScenario

Card of the table huTemplateScenario

Name	huTemplateScenario
Code	huTemplateScenario
DBMS	Microsoft SQL Server 2000

Constraint name of table huTemplateScenario

CKT_HUTEMPLATESCENARIO

Column list of the table huTemplateScenario

Name	Code
CurrentScenario	CurrentScenario

Column CurrentScenario of table huTemplateScenario

Card of the column CurrentScenario of the table huTemplateScenario

Name	CurrentScenario
Code	CurrentScenario
Data Type	varchar(40)
Mandatory	TRUE

Standard check of column CurrentScenario of table huTemplateScenario

Low value	
High value	
Default value	Probabilistic
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CurrentScenario of table huTemplateScenario

CKC_CURRENTSCENARIO_HUTEMPLA

Key list of the table huTemplateScenario

Name	Code
Key_1	Key_1

Key Key_1 of table huTemplateScenario

Card of the key Key_1 of the table huTemplateScenario

Name	Key_1
Code	Key_1
Table	huTemplateScenario

Column list of the key Key_1

Name	Code

CurrentScenario	CurrentScenario

Code preview of Key_1

```
alter table huTemplateScenario
   drop constraint PK_HUTEMPLATESCENARIO
go
```

List of diagrams containing table huTemplateScenario

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huTemplateScenario

```
if exists (select 1
            from  sysobjects
           where  id = object_id('huTemplateScenario')
            and   type = 'U')
   drop table huTemplateScenario
go


/*==============================================================*/
/* Table: huTemplateScenario                                    */
/*==============================================================*/
create table huTemplateScenario (
CurrentScenario      varchar(40)          not null default 'Probabilistic',
constraint PK_HUTEMPLATESCENARIO primary key  (CurrentScenario)
)
go
```

Table huBldgCharCase

Card of the table huBldgCharCase

Name	huBldgCharCase
Code	huBldgCharCase
DBMS	Microsoft SQL Server 2000

Constraint name of table huBldgCharCase

CKT_HUBLDGCHARCASE

Column list of the table huBldgCharCase

Name	Code
CaseDescription	CaseDescription
CaseID	CaseID
CaseName	CaseName

Column CaseID of table huBldgCharCase

Card of the column CaseID of the table huBldgCharCase

Name	CaseID
Code	CaseID
Data Type	int
Mandatory	TRUE

Standard check of column CaseID of table huBldgCharCase

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CaseID of table huBldgCharCase

CKC_CASEID_HUBLDGCH

Column CaseName of table huBldgCharCase

Card of the column CaseName of the table huBldgCharCase

Name	CaseName
Code	CaseName
Data Type	varchar(25)
Mandatory	FALSE

Standard check of column CaseName of table huBldgCharCase

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CaseName of table huBldgCharCase

CKC_CASENAME_HUBLDGCH

Column CaseDescription of table huBldgCharCase

Card of the column CaseDescription of the table huBldgCharCase

Name	CaseDescription
Code	CaseDescription
Data Type	varchar(255)
Mandatory	FALSE

Standard check of column CaseDescription of table huBldgCharCase

Low value	
High value	
Default value	
Unit	
Format	
Upper case	FALSE
Lower case	FALSE
Cannot modify	FALSE
List of values	

Constraint name of column CaseDescription of table huBldgCharCase

CKC_CASEDESCRIPTION_HUBLDGCH

Key list of the table huBldgCharCase

Name	Code
PK_CaseID	PK_CaseID

Key PK_CaseID of table huBldgCharCase

Card of the key PK_CaseID of the table huBldgCharCase

Name	PK_CaseID
Code	PK_CaseID
Table	huBldgCharCase

Column list of the key PK_CaseID

Name	Code
CaseID	CaseID

Code preview of PK_CaseID

```
alter table huBldgCharCase
   drop constraint PK_HUBLDGCHARCASE
go
```

Index list of the table huBldgCharCase

Name	Code	Unique	Cluster	Primary	Foreign Key	Alternate Key
idtCaseID	idtCaseID	FALSE	FALSE	FALSE	FALSE	FALSE

Index idtCaseID of table huBldgCharCase

Card of the index idtCaseID of the table huBldgCharCase

Name	idtCaseID
Code	idtCaseID
Unique	FALSE
Cluster	FALSE
Primary	FALSE
Foreign Key	FALSE
Alternate Key	FALSE
Table	huBldgCharCase

Code preview of idtCaseID

The preview is empty because of the setting.
Check the generation option.

List of diagrams containing table huBldgCharCase

Diagram name	Diagram Code
Main CDM Diagram	Main CDM Diagram

Code preview of huBldgCharCase

```
if exists (select 1
          from  sysobjects
         where  id = object_id('huBldgCharCase')
          and   type = 'U')
   drop table huBldgCharCase
go


/*==============================================================*/
/* Table: huBldgCharCase                                        */
/*==============================================================*/
create table huBldgCharCase (
CaseID              int                 not null,
CaseName            varchar(25)         null,
CaseDescription     varchar(255)        null,
constraint PK_HUBLDGCHARCASE primary key  (CaseID)
)
go
```