

Puerto Rico MMMS – Business Plan Summary

Data based on information provided by the Puerto Rico Planning Board (PRPB), dated May 10, 2004 and other FEMA sources

PRELIMINARY STUDIES



LEGEND

DFIRM Preliminary Dates



Source: FEMA Regional Flood Study Sequencing by County, December 2005.

PURPOSE OF BUSINESS PLAN SUMMARY

The Map Modernization Management Support (MMMS) Business Plan Summary was compiled by reviewing the Federal Fiscal Year (FY) 2005-09 MMMS Business Plans and FY06 updates from the business plans submitted to the Department of Homeland Security's Federal Emergency Management Agency (FEMA). The business plan summary highlights the proposed and completed MMMS activities that each FEMA MMMS Partner has undertaken, presents how the FEMA Regional Office allocated its funding from FEMA Headquarters to each State in Federal FY05, and identifies risk factors that may have impacted the FEMA MMMS Partner's resources. All of these categories are shown in relation to the Flood Map Modernization mapping schedule.

THE COMMONWEALTH'S VISION FOR MAP MODERNIZATION AND IMPLEMENTATION

The Puerto Rico Planning Board (PRPB) is the Commonwealth's responsible agency for the overall coordination and integration of the government's policy concerning the National Flood Insurance Program (NFIP). The PRPB would like to increase responsibility for project management, hydrologic and hydraulic data development, data sharing, and outreach within the

Commonwealth, expanding our role as a Cooperating Technical Partner (CTP).

SIGNIFICANT ACCOMPLISHMENTS AND STRENGTHS OR SUCCESS STORIES

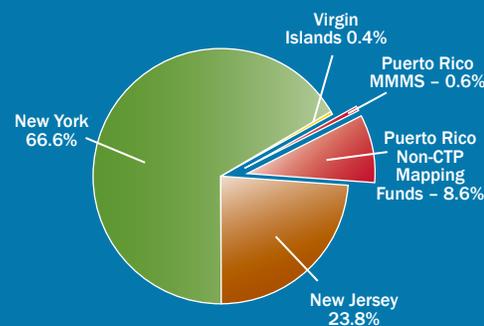
In the past few years, FEMA has been investigating the use of a new finite element hydrodynamic storm surge model, Advanced Circulation Model (ADCIRC), for flood hazard mapping purposes. It had been used for FEMA flood hazard mapping in site specific projects (American Samoa and Charleston, South Carolina), and it was being reviewed for inclusion in FEMA's Accepted Models list. FEMA accepted the use of ADCIRC for coastal storm surge modeling and FEMA Region II initiated a project to develop an updated storm surge model for the Caribbean area using ADCIRC. This project is currently focused on the Virgin Islands and was completed during the spring 2004. Although the current project is focused on the Virgin Islands and the coastal stillwater elevations developed from this model can only be applied in the Virgin Islands, much of the input data and grid setup can be transferred for use in Puerto Rico; additional refinement of the Puerto Rico conditions and additional data would need to be included for use in developing coastal stillwater elevations for Puerto Rico. In turn, this would be the starting point for a full coastal restudy of the entire Commonwealth.

SIGNIFICANT PARTNERSHIPS

With several recent disasters in Puerto Rico, funds were approved to be allocated towards updating the Puerto Rico Flood Insurance Rate Maps (FIRMs) to current Digital FIRM (DFIRM) specifications. As part of this effort, the PRPB became a partner under Map Modernization. As part of this partnership, the PRPB shared

REGIONAL AND THE COMMONWEALTH'S VIEW

Federal FY05 Region II Funding Distribution Total \$11,675,000



Source: State percentage received of total FY05 Flood Map Modernization Regional production budget according to internal FEMA procurement data (PALT). Puerto Rico 9.2%

ACCOMPLISHED ACTIVITIES FY05

- None stated

MMMS ACTIVITIES PLANNED FY06

- None stated

FEMA'S OBJECTIVES FOR FLOOD MAP MODERNIZATION

- Establish and maintain a premier data collection and delivery system
- Achieve effective program and project management
- Build and maintain mutually beneficial partnerships
- Expand and better inform the user community



FEMA

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data, such as digital topographic mapping, digital bathymetric data, and Geographical Information Systems (GIS) data layers, with FEMA for use in developing updated flood hazard information. With this commitment towards Map Modernization in Puerto Rico, production began to complete a digital upgrade for the entire Commonwealth in order to modernize the FIRMs. This included:

- Incorporating five basin restudies from the Hazard Mitigation Grant Program project;
- Utilization of updated base map and GIS data from the Commonwealth;
- Incorporating hundreds of Letters of Map Change;
- Creation of a GIS-enabled DFIRM Database; and
- Outreach to the community in making the maps user-friendly.

IMPEDIMENTS TO MAP ADOPTION

As the NFIP Commonwealth Coordinating Agency, the Puerto Rico Planning Board is working diligently to create and maintain accurate, up-to-date flood hazard data for the Commonwealth and participating municipalities. The Board is currently engaged in extensive

community partnerships for training, feedback and assistance with the floodplain management program, and will continue to do so in the future. There are no major impediments to map adoption at this time.

UNMET NEEDS OF PUERTO RICO'S MAP MODERNIZATION PROGRAM

PRPB's vision for Map Modernization is to undertake a more active role in program administration, project management, and flood study specific tasks over the next five year. In order to make that happen, we are requesting funding for the resources needed to maintain its capability and to take an increased role. Current program administration and management functions carried out by PRPB staff include: Project planning (business plan updates, establishing priorities, etc.); Development of federal, Commonwealth agency and local partnerships; and Community and public outreach. PRPB requests that four additional full-time positions be funded for implementing Map Modernization annually. These FEMA-funded positions are created directly in support of the Map Modernization effort: 1 Senior Engineer; 1 Engineer; and 2 Mapping Technicians. In addition, to fully implement the vision for Map Modernization, PRPB requests that some equipment needs be funded.

COMMONWEALTH POPULATION STATISTICS

2000 CENSUS POPULATION & POPULATION GROWTH (1990-2000)	2000 COMMONWEALTH POPULATION RANK WITHIN FEMA REGION	FEMA REGIONAL POPULATION
3,808,610 / 8.1%	3rd	31,308,029

Source: U.S. Census Bureau

FEDERALLY DECLARED DISASTERS/EMERGENCIES BY CALENDAR YEAR

PUERTO RICO	2004 (Disasters as of 12/06/05)	2005 (Disasters as of 12/06/05)
Federally Declared Disasters	Tropical Storm Jeanne and Resulting Landslides and Mudslides – September 17	Severe Storms, Flooding, Landslides, and Mudslides – November 10

FLOOD INSURANCE AND LOSS SUMMARY FROM 1978 TO NOVEMBER 30, 2005

	TOTAL CURRENT POLICIES	TOTAL PREMIUM (\$)**	NUMBER OF CLAIMS***	TOTAL DOLLARS PAID (\$)****	NUMBER OF REPETITIVE LOSS PROPERTIES
NATIONAL RANKINGS*	56,701	\$23,039,208	21,417	\$105,235,621	1,829
	13th	15th	17th	23rd	

* National ranking based on NFIP NextGen data; ranked from highest to lowest.

** The total amount of premiums for policies in-force.

*** The total number of claims reported.

**** The total amount paid on claims.