

**HURRICANE KATRINA SURGE INUNDATION  
and  
ADVISORY BASE FLOOD ELEVATION MAP  
Harrison County, MS**

Date of Event: August 29, 2005  
Date of Map: January 6, 2006

**Map Number: MS-K22**

**Estimated Katrina Surge Elevations<sup>1,2</sup>**

**18-20 ft**

**Advisory Base Flood Elevations<sup>2,3</sup>**

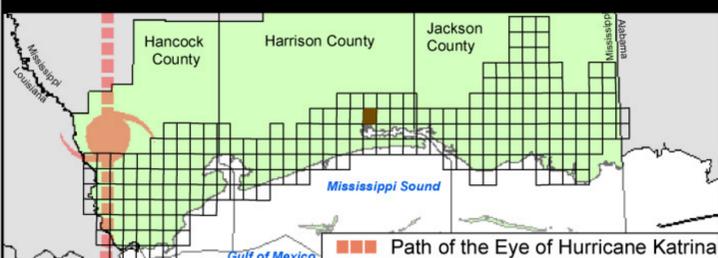
**Open Coast: N/A  
Back Bay: 16-24 ft**

**Effective Base Flood Elevations<sup>2</sup>**

**VE Zone: 13-14 ft  
AE Zone: 11-12 ft**

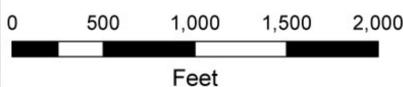


**OVERVIEW MAP**



**Data Sources:**  
Aerial Imagery: USDA, National Agriculture Imagery Program, 2004  
Flood Zones and Elevations: FEMA Flood Insurance Rate Maps (Hancock Co., MS, [1983-1992]; Harrison Co., MS [1984-2002]; Jackson Co. [1984-1993]). Elevations converted from NAVD83 to NGVD29.  
High Water Marks: FEMA (Identified and surveyed Sept-Oct., 2005)  
Storm Track: NOAA National Weather Service

For more information on these advisory maps, please see [www.fema.gov/hazards/floods/recoverydata/katrina\\_index.shtml](http://www.fema.gov/hazards/floods/recoverydata/katrina_index.shtml)



**LEGEND**

- State Boundary
- County Boundary
- Flood Advisory-Related Data**
- Hurricane Katrina-Related Data**
- Preliminary Indoor High Water Mark<sup>2</sup>
- Preliminary Outdoor High Water Mark<sup>2</sup>
- Preliminary Debris High Water Mark<sup>2</sup>
- Limit of Katrina Surge Inundation
- ABFE Contours (1-foot intervals)<sup>3</sup>
- ABFE Inland Limit<sup>3</sup>
- Approx. Limit of 1.5-foot Wave Zone<sup>3</sup>
- Approx. Limit of 3-foot Wave Zone<sup>3</sup>
- Open Coast/Back Bay Boundary
- Limit of ABFEs

**Notes:**

<sup>1</sup> Range estimated from surveyed, surge-only HWMs. Local wave effects (wave heights and wave runup) are not included in these elevations.  
<sup>2</sup> Measured in feet relative to the North American Vertical Datum of 1988.  
<sup>3</sup> Post-Hurricane Katrina Advisory Base Flood Elevations (ABFEs) are based on updated statistical information to develop the estimated 1%-annual-chance (100-year) stillwater elevations (SWELs) plus estimated wave effects. For Harrison County, MS, the advisory SWEL is 18 ft for the Gulf Coast and 16 ft for back-bay areas. See equation below to calculate the ABFE with wave effects for a given site:  
**ABFE = Advisory SWEL + Wave Height,**  
where Wave Height = 1/2 Stillwater Flooding Depth (depth measured relative to the ground)

**MAPS FOR ADVISORY PURPOSES ONLY - NOT FOR INSURANCE RATING PURPOSES**

For insurance rating purposes, refer to the currently effective Flood Insurance Rate Map (FIRM), available from your local government or the FEMA Map Service Center (1-800-358-9616/ <http://msc.fema.gov>)