

# HILLSBOROUGH COUNTY LOCAL MITIGATION STRATEGY ADDENDUM 1

April 30, 2004

## **Planning Process: Requirement Section 201.6(b)**

Element B. Added to page I-3

The State of Florida and Hillsborough County contracted with the Tampa Bay Regional Planning Council (TBRPC) to provide assistance to the county in the revision of the Local Mitigation Strategy. TBRPC staff worked with county staff to pull together the document, update components, and address deficiencies noted with the requirements of the Disaster Mitigation Act of 2000. TBRPC provided four drafts to the committee for review and both County and TBRPC staff met with DCA and FEMA representatives in Tallahassee April 27, 2004, to review the document and address any recommendations for approval.

Element D. Added to page I-2

State and federal agencies including federal agencies such as the National Weather Service and SBA Small Business Development Center, the Florida Department of Community Affairs and Department of Transportation were invited to participate. The University of South Florida (USF) provided analysis and review of drafts. Neighboring jurisdictions were invited to meetings and sent drafts for review. Also participating were environmental organizations such as the Southwest Florida Water Management District (SWFWMD); community organizations such as homeowners associations, the Citizen Corps Council (CCC) and Community Emergency Response Team (CERT) organizations. Private organizations such as representatives from the insurance industry, power utility (Tampa Electric) participated and relief organizations such as the American Red Cross serve on the committee.

## **Risk Assessment Requirement Section 201.6(c)(2)**

Element A. Added to page III-1 and Table 13

The following table was created to give an overview of the probability, potential impact, frequency and distribution of the hazards which could affect the county. The Plan addresses those natural hazards required by FEMA and the State of Florida. Three of those hazards do not pose any significant threat to Hillsborough County based on historical occurrences and meteorological, geological and topological research. However, due to the specific vulnerability of the County to certain technological and societal hazards, five additional hazards were addressed including hazardous material incidents (both transportation and fixed facility), dam or levee failure, power failure and terrorism.

Table 13  
Hazards Vulnerability Analysis Matrix

Hazard – Natural	Probability	Impact	Frequency	Distribution
Coastal /Riverine Erosion	Moderate	Minor	5-10 years	Primarily coastal areas in Tampa and unincorporated county (see Map 9)
Hurricane/Tropical Storm - Minor	High	Moderate	2 years	Storm surge in coastal areas in Tampa and unincorporated county. (See Map 7) Winds - County-wide
Hurricane/Tropical Storm - Major	Moderate	Major	50 years	County-wide and Regional wind damage, coastal and Riverine flooding (See Map 7)
Severe Storm/ Lightning, Hail, Wind	High	Minor	Several a year	Localized - specific to event
Severe Storm/ Tornado	High	Major	2-3 a year	Localized – specific to event
Drought/Extreme Heat	Low	Minor, damage primarily in agriculture	5-10 years	County-wide
Earthquake	None	Major	N/A	N/A
Flooding	Moderate	Minor	5-10 years	Localized (See Map 9)
Winter Storm/Freezes	Low	Moderate, damage primarily in agriculture	3 -4 years	County-wide
Landslide	None	None	N/A	N/A
Sinkholes	Moderate	Minor	Several a year	Localized (See Map 11)
Tsunami	None	None	N/A	N/A
Volcano	None	None	N/A	N/A
Wildfire	High	Minor	Several a year	Localized on Urban Fringe (See Map 13)

Hazard - Technological	Vulnerability	Impact	Frequency	Distribution
Hazardous Materials Transportation	High	Moderate	50-100 a year	Localized, greatest threat along Interstate
Hazardous Materials Fixed Facility	High	Major	5-10 years	Localized, greatest threat at the Port of Tampa
Dam/Levee Failure	Low	Minor	Unknown	Localized, along Hillsborough River
Power Failure Major	High	Moderate, greatest impact in downtowns and urban centers	Unknown	Localized, specific to event
Terrorism	Moderate	Major	Unknown	Localized, specific to event

**Profiling Hazards  
Requirement Section 201.(c) (2) (i)**

Element C.

**Hazards Events Update to the Local Mitigation Strategy**

Following the adoption of the Hillsborough County's communitywide (multi-jurisdictional) Local Mitigation Strategy (LMS) in 1999, several small tropical cyclone events impacted the county. Principal impacts were to the isolated coastal areas in the City of Tampa and the Alafia and Little Manatee coastal and Riverine areas in unincorporated Hillsborough County. In addition, there was some minor wind damage to the more interior portions of the county and the cities of Temple Terrace and Plant City.

Severe thunderstorms impacted the community damaging property and taking lives (lightening strikes). Community outreach continues to focus on warning systems and precautionary actions individuals should take to protect both life and property. Outreach programs continue to be successful.

The information below is an update to listings and tables within the LMS that are associated with areas of vulnerability and disasters. Information provided does correspond to the Risk tables, which show flooding as the most repetitive disaster and the highest ranked area of vulnerability.

Since the tragic events of September 11, 2001, the region recognizes that terrorism is a very real threat to the County and the country. The local governments, first responders and State agencies are working with the Department of Homeland Security to insure that everything that can be done to mitigate the occurrence (Crisis management) and impacts (consequence management) is being done. There were no acts of terrorism within the Bay area.

The following damage summary only includes flooding events. No other significant events occurred. Updates to the LMS associated with flooding are as follows:

**Period: 2000 - 2001**

There were no Federal or State disaster declarations in Hillsborough County during this period. Hurricane Gordon in September 2000 did create storm surge effects that flooded known repetitive flood-loss structures within the Alafia and Little Manatee coastal and riverine areas. This information was recorded by the review of the County's Disaster Assessment Team:

HURRICANE GORDON STORM-SURGE EFFECTS  
TO HILLSBOROUGH COUNTY

Structures flooded:	25
Residential structures:	22
(10 documented repetitive flood loss structures; verification of addresses will be made)	
Commercial structures	3
Insured Properties	19

Approx. damage value: \$284,000 (not including lost wages/customers).

**Period: 2001 – 2002**

There were no Federal or State declarations assigned to Hillsborough County during this year. Tropical Storm Gabrielle in September 2001 did create storm surge effects that flooded known repetitive flood-loss structures within the Alafia and Little Manatee coastal and riverine areas. Relevant information is listed below derived through the County's Disaster Assessment Team records:

TROPICAL STORM GABRIELLE STORM-SURGE EFFECTS  
TO HILLSBOROUGH COUNTY

Structures flooded:	39
Residential structures:	37 (this added 21 repetitive flood loss structures, verification of addresses will be made),
Commercial structures	2
Insured Properties	10

Approx. damage value: \$376,000 (not including lost wages/customers).

Spring and early summer months of the reporting period were pronounced with a severe drought period. However, the County did experience localized flooding from thunderstorms during the mid- to late-summer period of the 2001/2002 reporting period. During these events, the County's severe weather system was initiated providing warning of such events to residents and businesses. A few tornadoes were reported, and there were several reports of wind damage and power outages, but no losses of life.

With respect to localized flooding during the previous year, some minor flooding was reported in the Ruskin and the Odessa areas of the county. Flooding occurred to some roads and to several homes during locally heavy rain events. Both the Public Works and the Planning and Growth Management Departments responded to reports and took appropriate actions. Localized street flooding required placing signs at respective sites until stormwater receded. The Roads and Streets Department was available to furnish

sandbags to County residents at maintenance stations located throughout the County when the demand was present.

The County's Flood Warning System was initiated to have residents evacuate from flood high-hazard areas during Tropical Storm Gabrielle. Gabrielle's main impact was sustained winds and rivers cresting over banks the day after the storm passed through. The storm primarily affected the extreme southern portion of Hillsborough County, particularly residences along the Bullfrog Creek.

**Period: 2002 – 2003:**

There were no Federal or State declarations in Hillsborough County during this period. There were numerous minor flooding events. Some were associated with what was considered the El Nino of 2002/2003 that occurred during the weeks of Christmas and New Year's. Continuous rainfall throughout the spring, summer and early fall saturated the ground leading to instances of urban and inland flooding. This information was obtained through the County's Disaster Assessment Team records:

Structures flooded:	22
Residential structures:	20
Commercial structures	2
Insured Property	12
Approx. Damage value:	\$279,000 (not including lost wages/customers).

For greater detailed information, the reader can refer to county Disaster Assessment Team records.

**Assessing Vulnerability: Overview  
Requirement Section 201.6 (c) (ii)**

Element B.

The impact of each hazard (measure of damages) for infrastructure, i.e. roads and bridges, is not currently available. The mitigation strategy action plan will be amended to include the collection of data necessary to improve future vulnerability assessment efforts.