

PASCO COUNTY LOCAL MITIGATION STRATEGY

*(A Guide to Implement Pre-Disaster Mitigation and Post-Disaster
Recovery Initiatives)*



Developed by the Hazard Mitigation Committee and coordinated
and prepared by the Office of Emergency Management

February 2009

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The LMS was developed and approved by the overall Hazard Mitigation Committee (HMC), which included the Hazard Mitigation Planning Committee (HMPC), Participants and Other Interested Parties (OIP), and was coordinated and prepared by the Pasco County Office of Emergency Management. The following individuals currently serve on the above mentioned committees.

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EXECUTIVE SUMMARY

Since 1992, the State of Florida has experienced numerous Federal Disaster Declarations. These events included Hurricanes Andrew, Erin, Opal, Earl, Georges, Charley, Francis, Jeanne, Dennis, Katrina, Wilma, Irene, and Ivan; Tropical Storms Alberto, Gordon, Josephine, Allison, Gabrielle, Bonnie, Mitch and Fay, flooding associated with El Niño weather conditions, the March 1993 Storm of the Century, wildfires and tornados. Approximately \$30 billion was spent in post-disaster recovery for Hurricane Andrew and \$3 billion was spent to clean up after Hurricane Opal. Many of the affects of these disasters were felt in Pasco County, either as a threat or in the aftermath of the event. The County has seen the affects of Hurricane Jeanne (2004), Hurricane Francis (2004), Hurricane Charley (2004), Hurricane Georges (1998), Tropical Storm Josephine (1996), Hurricane Erin (1995), and the March 1993 Storm of the Century. Pasco County experienced two damaging tornados, in December, 2006 and 2007. Extensive flooding was experienced between December 1997 and April 1998, as well as significant flooding between May and September 2003, as a result of weather conditions associated with El Niño. The Wildfires associated with drought conditions and human carelessness were experienced from 2000 through 2002.

Hazard mitigation is the practice of reducing risks to people and property from disasters. When developing new areas of a community, it is relatively straightforward to avoid hazardous sections if we know their location. Since few communities are created from scratch, it is also necessary to make existing communities safer and able to more quickly recover after a disaster. This term is referred to as hazard resilience. There are many obstacles to improving resilience. The greatest being inertia. Citizens may have a vision of their community, property or homes they are reluctant to alter. The second toughest challenge is finding the money. However, there are important reasons to mitigate hazards. The most important is that it makes communities safer places to live. In addition hazard mitigation brings a host of benefits that become apparent after a disaster; the cost of reconstruction is lower and the time it takes to recover is shorter; businesses close for less time; public facilities require fewer repairs; and the community is restored to normal a little more quickly. In the long term, the community should be subject to fewer incapacitating disasters.

Pasco County, like any coastal county, is at risk for devastation from a hurricane. Most of the land area west of Little Road in West Pasco County is vulnerable to storm surge flooding in the event of a hurricane. Storm surge can reach 5-6 feet above sea level in a Category One hurricane to more than 25 feet above sea level in a Category Five hurricane. The five evacuation levels along the coast comprise 48,107 acres; contain 70,887 single-family, multi-family and mobile homes; 2,912 commercial buildings; and 170 public buildings. The total replacement value of the structures is \$6.12 billion. According to the 2000 US Census population projection of the April 2006 Estimate, the total population of Pasco County was 450,171. The permanent resident population (including mobile home residents) living in the western part of the County, which includes evacuation levels A-E, totals 292,611 which is 65% of the population of Pasco County. Taking into account the mobile home population living outside the evacuation areas required to evacuate, the total population in Pasco County required to evacuate for a hurricane is roughly equivalent to the population in the western part of the County or 65% of the population of the County. The potential wind and flood damage

from a Category 5 hurricane could result in over \$11 billion in damage to homes, businesses, employers and public service providers. A storm of this magnitude would displace almost two-thirds of the residents in Pasco County.

Pasco County is also at risk to coastal, riverine and localized flooding. Approximately 41% of the National Flood Insurance policies are written for the State of Florida. In Pasco County, the amount of property lying within a designated floodplain is substantial. There are 425,730 acres of land in the County that lie in a floodplain. FEMA reported in July of 2005 that over 32,000 flood insurance policies were in effect in the County and local municipalities representing \$4,574,867,500 in coverage. The policies in force provide protection for 15.1% of the total housing units in Pasco County.

The identification, reduction and management of risks from disasters are becoming increasingly important. If effective action is not taken, human and economic costs of disasters to communities in the State are escalating so rapidly that it may not be possible to ever fully recover. The State of Florida, Department of Community Affairs is intent on finding reasonable approaches to making communities more resistant to disasters and ensuring that any redevelopment in their aftermath continues to lessen future vulnerability to those impacts. One of the most effective ways to do this is to have every local government recognize the importance of hazard mitigation, develop and adopt a Local Mitigation Strategy, and a post-disaster redevelopment plan.

Local government, citizens, businesses, industry, educational institutions, and community organizations must strive together to meet mitigation objectives. This Local Mitigation Strategy is a compilation of the efforts of these stakeholders' efforts to identify their mitigation goals and objectives, and develop mitigation initiatives based on the hazards and vulnerability of Pasco County. Implementation of the hazard mitigation objectives can only be accomplished through personal awareness and responsibility, coupled with governmental regulation and enforcement, as well as public awareness and support. The objective of this Local Mitigation Strategy is to make Pasco County a safer, more disaster resistant community.

Glossary

Aquifer Recharge Areas: Areas contributing to or providing volumes of water, which make a contribution to the storage or regional flow of an aquifer.

Base Flood Elevation (BFE): The highest elevation, expressed in feet above sea level, of the level of flood waters occurring in the regulatory base flood (i.e. 100-year flood event).

Building Codes: Regulations adopted by local government that establish standards for construction, modification, and repair of buildings and other structures.

Coastal High Hazard Area (CHA): Evacuation zone for a Category 1 hurricane as established in the Tampa Bay Regional Planning Council's Hurricane Evacuation Study.

Community Development Block Grants (CDBG): The objective of the CDBG program is to facilitate the development of viable urban communities by providing decent housing and a suitable living environment, while expanding economic opportunities primarily for persons of low- and moderate- incomes. Funds must be used so as to give maximum feasible priority to activities which will carry out one of the three broad national objectives of: benefit to low- and moderate-income families; or aid in the prevention or elimination of slums or blight; or activities designed to meet other community development needs having a particular urgency because existing conditions pose a serious and immediate threat to the health or welfare of the community.

Community Rating System (CRS): An initiative of the Federal Insurance Administration to encourage increased efforts in the reduction of flood losses, facilitate accurate insurance ratings and promote the awareness of flood insurance.

Comprehensive Emergency Management Plan (CEMP): Required by Florida Statutes and addresses the four inter-related phases of emergency management: preparedness, response, recovery and mitigation.

Critical Facilities: A structure from which essential services and functions for victim survival, continuation of public safety actions, and/or disaster recovery are performed or provided.

Cultural Facilities: Establishments such as museums or art galleries of an historic, educational or cultural interest that are not operated commercially.

Development: The carrying out of any building activity or mining operation, the making of any material change in the use or appearance of any structure or land, or the dividing of land into three or more parcels.

Disaster: Any natural, technological, or civil emergency that causes damage of sufficient severity and magnitude to result in a declaration of a state of emergency by a county, the

Governor, or the President of the United States. Disasters shall be identified by the severity of resulting damage, as follows:

- Minor Disaster - A disaster that is likely to be within the response capabilities of local government and to result in only a minimal need for State or Federal assistance.
- Major Disaster - A disaster that will likely exceed local capabilities and require a broad range of State and Federal assistance.
- Catastrophic Disaster - A disaster that will require massive state and federal assistance, including immediate military involvement.

Drainage: Surface water runoff or the removal of surface water or groundwater from land by drains, grading or other means.

Emergency Management, Preparedness and Assistance (EMPA) Trust Fund Grant Program: Competitive grant for the state or regional agencies, local governments and private non-profit organizations for the implementation of projects that will further state and local emergency management objectives.

Evacuation Routes: Routes designated by Pasco County Office of Emergency Management and the Tampa Bay Regional Planning Council for the movement of persons to safety in the event of a hurricane.

Floodplain Management Plan: The operation of a program containing corrective and preventive measures for reducing flood damage including, but not limited to, flood control projects, floodplain land use regulations, floodproofing of buildings and emergency preparedness plans.

Floodprone Areas: Areas inundated during a 100-year event or areas identified by the National Flood Insurance Program as an “A Zone” on Flood Insurance Rate Maps or Flood Hazard Boundary Maps.

Goal: Long-term end toward which programs or activities are ultimately directed.

Habitat: The particular natural community or communities that typically support a population of a particular plant or animal species.

Hazardous Material: Any substance or material in a quantity or form which may be harmful to humans, animals, crops, water systems, or other elements of the environment if accidentally released. Hazardous materials include: explosives, gases (compressed, liquefied, or dissolved), flammable and combustible liquids, flammable solids or substances, oxidizing substances, poisonous and infectious substances, radioactive materials, and corrosives.

Hazard Mitigation Grant Program (HMGP): The program operates under the authority of Public Law 100-707, the Robert T. Stafford Disaster Relief and Emergency Assistance Act.

(The Hazard Mitigation Grant Program (HMPG) will be replaced by Pre-Disaster Mitigation (PDM.) Section 404 provides 75/25 matching funds to eligible applicants to implement immediate and long-term hazard mitigation measures. A total of up to 15 percent of the combined public assistance and individual assistance programs are available to fund hazard mitigation projects. Section 406 is site-specific mitigation that is written if authorized by the federal/state/local officials and is in accordance with any applicable rules and regulations. This type of mitigation receives also 75 percent federal money and requires a state/local match of 25 percent.

Historic Resources: All areas, districts or sites containing properties listed on the Florida Master Site File, the National Register of Historic Places, or designated by a local government as historically, architecturally, or archaeologically significant.

Hurricane Shelter: A structure which meets the shelter selection guidelines, designated by local officials to be pre-identified for sheltering residents during a hurricane.

Infrastructure: Man-made structures which serve the common needs of the population, such as: sewage disposal systems, potable water systems, potable water wells serving a system, solid waste disposal sites or retention areas, stormwater systems, utilities, piers, docks, wharves, breakwaters, bulkheads, seawalls, bulwarks, revetments, causeways, marinas, navigation channels, bridges, and roadways.

Local Mitigation Strategy (LMS): Plan developed to minimize negative impacts (potential loss of life or property damage) from a natural, man-made or technological disaster.

Long-Term Temporary Housing: Tents, mobile homes, suitable rental housing, or other readily fabricated dwellings set-up for residents to live in until they are able to return to their own homes or find new homes. Utilization of this type of housing can last up to six months or longer.

Mitigate: To offset or reduce negative impacts through measures such as, but not limited to, the following:

- Not taking action or parts of a certain action.
- Limiting the degree or magnitude of the action.
- Repairing, rehabilitating, or restoring the affected resources.
- Preserving and maintaining operations over time during the life of the action, and
- Replacing or providing substitute resources or environment.

Mobile Home: A structure, transportable in one or more sections, twelve (12) body feet or more in width, and over forty (40) feet in length, which is built upon an integral chassis and designed to be used as a dwelling unit with or without a permanent foundation when connected to the required utilities, and includes the plumbing, heating, air conditioning, and electrical systems contained herein. If fabricated after June 15, 1976, each section shall bear a HUD label certifying that it was built in compliance with Federal Manufacturing Home Construction and Safety Standards 42 USC 5401 and 24 CR 3282 and 3283.

Mobile Home Park: A mobile home development consisting of a parcel of land under single ownership which has been, or is proposed to be, planned and improved for the placement of mobile homes for nontransient use.

Mobile Home Space: A plot of land for placement of a single mobile home within a mobile home park.

National Flood Insurance Program (NFIP): A federal program, which authorizes the sale of federally subsidized flood insurance in communities that agree to adopt and implement flood mitigation strategies and regulations.

Objective: A specific, measurable, intermediate end that is achievable and marks progress toward a goal.

Open Space: Undeveloped lands suitable for passive recreation or conservation uses.

Post-Disaster Recovery: Long-term activity designed to return life to normal or improved levels following a disaster.

Project Impact: Federal Emergency Management Agency (FEMA) initiative that challenges communities to take actions that protect families, businesses and property by reducing the effects of natural disasters.

Public Facilities: Transportation systems or facilities, sewer systems or facilities, solid waste systems or facilities, drainage systems or facilities, potable water systems or facilities, educational systems or facilities, parks and recreation systems or facilities and public health systems or facilities.

Recreational Vehicle: Vehicle-type unit primarily designed as temporary living quarters for recreational, camping, or travel use, which either has its own motive power or is mounted on or drawn by another vehicle.

Recreational Vehicle (RV) Park: Place set aside and offered by a person, for either direct or indirect remuneration of the owner, leaser, or operator of such place, for the parking, accommodation, or rental of five or more recreational vehicles or tents; and the group camping and similar recreational facilities.

Retrofit: Corrective measures taken on an existing structure to minimize damage caused by water, wind and fire.

Runoff: The part of the rainfall that travels to surface streams and water bodies via surface or subsurface routes.

Storm Surge: The abnormal rise in water level caused by the wind and pressure forces of a hurricane or tropical storm. Storm surge produces most of the flood damage and drowning associated with storms that make landfall or that closely approach the coastline.

Stormwater: Flow of water resulting from a rainfall event.

Subdivision: The division of land, lot, tract, or parcel into two or more lots, parcels, plats, or sites, or other divisions of land for the purpose of sale, lease, offer, or development, whether immediate or future. The term also includes the division of residential, commercial, industrial, agricultural, or other land whether by deed, metes and bounds description, lease, map, plat, or other instrument.

Wetlands: Areas that are inundated or saturated by surface water or ground water at a frequency and duration sufficient to support, and under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soils.

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I. INTRODUCTION

A. OVERVIEW AND COST ESTIMATES OF DISASTERS

Most of the burden of recovering from a disaster falls squarely on the shoulders of local government. A severe disaster can bring extraordinary hardship to a community's citizens, devastate its economic base, and damage quality of life for years to come. A disaster also creates enormous pressure for local officials to take action and take action quickly. But in the haste to rebuild the community and return it to normal, it is critical to consider that the actions taken should attempt to avoid the repetition of the same destruction in future disasters.

The escalating human and economic costs of disasters have created a need for action to decrease community vulnerability. The cost of rebuilding devastated neighborhoods after each disaster requires money from the community that could be used for many other valuable purposes. Efforts by the federal government and the State of Florida have been initiated to both lessen the costs of disasters to the community and to speed the return to normalcy in a way that will prevent similar damage in future disasters. However, the efforts of the federal and state government can only be fully effective when local governments contribute to this effort. While every Florida community will always be threatened by hurricanes and other natural disasters, as well as technological and man-made emergencies, the County and its municipalities do not have to remain unnecessarily vulnerable to the consequences of these disasters.

Pasco County is particularly vulnerable to hurricanes, tropical storms and flooding events. Since 1986, Pasco County has seen the impacts from Hurricanes Elena, Erin, Opal, Georges, Charlie, Francis and Jeanne, Tropical Storms Josephine, Gabrielle, Bonnie and Alberto, and the 1993 "No Name Storm." Damage costs can be in the millions of dollars. The potential for coastal, riverine, and localized flooding is also a concern since a large number of the existing housing stock in the County was built prior to the implementation of the National Flood Insurance Program. The lack of sufficient stormwater systems to handle rainfall accumulation and redevelopment in areas previously impacted by a flooding event will contribute to future flooding problems.

Wildfire activity has gone unnoticed until recently. The wildfires during the past five years in Northeast and North Central Florida brought attention to the vulnerability of all of Florida to this hazard. Adding to the fire hazard is the growing number of people living in new communities built in areas that were once considered wildland. There were 348 wildfires reported in Pasco County between 1994 and 2008. The predominance of forested acreage, current patterns of development, and historical weather conditions indicate that wildfires will continue to be a hazard to Pasco County.

The costs associated with disaster recovery efforts will continue to escalate unless actions are taken to implement pre-disaster mitigation and post-disaster recovery initiatives. The development of a strategy to consider mitigation actions and explore

funding options is the first step to relieve the burdens associated with the escalating cost of recovery.

B. LOCAL MITIGATION STRATEGY

Hazard mitigation is any action taken to permanently reduce or eliminate long-term risk to people and their property from the effects of hazards. These hazards can be of any type, whether natural causes, such as hurricanes and floods, technological causes, such as hazardous materials incidents, or from man-made causes, such as terrorism. It is preferable to develop a strategy and accomplish mitigation initiatives prior to the impact of a disaster. The key to successful long-term hazard vulnerability reduction through mitigation is to understand and use a fundamental, well-conceived planning process. Pasco County has taken steps to prepare and implement mitigation techniques for multiple types of hazards that threaten its citizens, businesses and institutions, through the development of a unified Local Mitigation Strategy.

Pasco County and its municipalities developed a unified Local Mitigation Strategy during the late nineties. This 2009 update to the Local Mitigation Strategy has been prompted by the Disaster Mitigation Act of 2000. By developing the Local Mitigation Strategy, Pasco County can increase the resiliency of the community to the disruption and hardship of disasters and attempt to reduce the potential and actual costs of their impact. The cost of recovery and rebuilding due to the devastation caused by a natural disaster is much greater than the cost of planning and preparing before disaster strikes.

The purpose of the Local Mitigation Strategy is to establish an ongoing process that will make hazard mitigation part of the daily functioning of the entire community. The Local Mitigation Strategy process assessed vulnerabilities of the community to different types of hazards, identified a comprehensive list of plans, programs and projects to decrease the magnitude of those vulnerabilities and prioritized the implementation of these initiatives.

The first step in the planning process was the development of definitive, realistic goals and objectives, and the examination of existing County policies. Pasco County currently has several existing programs and plans related to hazard mitigation and post-disaster redevelopment. These programs and plans include the Comprehensive Emergency Management Plan, Floodplain Management Plan, Local Comprehensive Plans, Local Land Development Regulations, National Flood Insurance Program, Stormwater Management Plan, Building Codes, Zoning Ordinances, establishment of the Environmental Lands Acquisition & Management Program, and the Hurricane Mitigation Ordinance. The review of existing programs and resources provided the foundation necessary to identify additional planning and regulatory requirements.

The Disaster Mitigation Act of 2000 mandated further expansion of the planning process by requiring the Local Mitigation Strategy to contain a description of the planning process. The description includes the sequence of events in the planning process, including who was involved in the process, how the proposed development was

actually accomplished, and how the public was involved. See Appendix G for a detailed description of the 2009 update planning process.

The second step in the process was a review of the hazards Pasco County is vulnerable to and conduct an assessment of the impact on people, property and public infrastructure. Finally, a list of potential mitigation programs and projects based on the community Goals and Objectives and hazard vulnerability was identified.

The tools and techniques for hazard mitigation fall into three broad categories: design and construction guidelines (structural), environmental interventions, and non-structural interventions. *Structural mitigation* projects identified through the Local Mitigation Strategy include the strengthening of vulnerable structures and public facilities to withstand wind and other forces, elevation of structures to protect them from damage caused by flooding, construction of storm water control facilities, completion of small scale drainage improvements to existing facilities, and participation in the State of Florida's My Safe Florida Homes Grant Program. *Environmental intervention* refers to actions that reduce the vulnerability of communities by armoring them against the elements. This term commonly evokes images of works of engineering as well as the purchase and/or the protection of environmental sensitive lands and wildlife habitats, beach restoration and planting vegetation on loose hillsides. *Non-structural mitigation* usually refers to policies for avoiding hazard impacts. These policies may include zoning restrictions, acquiring land in the floodplain, promoting citizen awareness of hazard risk, assessment of shelter mitigation fees in the vulnerable areas, for other planning initiatives. The non-structural mitigation initiatives identified in the Local Mitigation Strategy include educational programs and development of a Post-Disaster Recovery Ordinance. The implementation of a mitigation program is a key component in the achievement of a "sustainable community", one in which citizens, businesses and institutions are protected from the disruptions and impacts of emergencies and disasters.

The implementation and adoption of the Local Mitigation Strategy will benefit Pasco County in many ways. First, the implementation of the strategy will decrease the human and economic costs of disasters by addressing community vulnerabilities before a disaster strikes. A long-term plan for reconstruction of impacted areas after a disaster is instrumental in assuring the community's vulnerability to the costs of disaster continues to decrease. Second, it will be a tool for better planning between Pasco County and its municipalities. The strategy identifies the programs and projects needed for more effective hazard mitigation, places priorities on their implementation and has already sought public support for their realization. Third, it will support effective decision-making after a disaster, which is critical during this time of chaos and confusion. The strategy provides a predetermined approach to decision-making and guides redevelopment that can mitigate the impacts of future disasters. All of these decisions involve individual consideration, and redevelopment planning will have identified how this can be accomplished and who will be responsible. Fourth, it will speed the post-disaster recovery process. In the aftermath of a disaster, extraordinary pressure will be exerted to return the entire community to normalcy as quickly as possible by restoring utilities, resuming community services, rebuilding housing and

restarting the local economy. Finally, the strategy will help secure funding for the community that may not otherwise be available, or may be more time consuming to obtain. Communities who implement disaster-resistant planning techniques and strategies stand to receive more money after a disaster and will be given priority over communities who have not implemented a mitigation strategy. Quick access to state and federal dollars is a significant benefit in the development of the Local Mitigation Strategy.

All government entities will formally adopt the LMS Update by resolution after FEMA has conditionally approved it. The copies of the resolutions will be included in Appendix G, LMS Planning Process.

II. MITIGATION PLANNING ORGANIZATION AND PROCESS

Notice: For a description of the planning process, including how the process was carried out during the 2009 LMS Update, please see Appendix G, LMS Planning Process.

At the core of the mitigation planning process is coordination and partnership among the governmental units involved in the planning effort. In addition, the planning process relies upon the close involvement of public and private sector organizations; such as environmental organizations, homeowners associations, the insurance industry and relief organizations. The creation of the organizational structure was the first step in the development of the Local Mitigation Strategy. The second step was to ensure that the citizens of Pasco County were informed and educated about the Local Mitigation Strategy. The results were the establishment of effective and productive committees who oversaw the development of the Local Mitigation Strategy, with the public being given the opportunity to participate and contribute to its finalization.

A. GOVERNMENT COORDINATION

The development and implementation of hazard mitigation strategies must ultimately occur at the community level where the impact of a disaster is most felt by the families, business owners, and institutions that must restore themselves to normalcy after a disaster. The local government has the authority to enforce land use regulations and building codes, to define hazard areas, to apply for disaster relief funds and to take other specific actions to meet its own unique needs. Therefore, leadership in hazard mitigation and long-term redevelopment planning for the community originates with its governing body.

The State of Florida, Department of Community Affairs (FDCA) and the Pasco County Board of County Commissioners (BCC) entered into a Contractual Services Agreement on April 7, 1998 for the purpose of developing the Local Mitigation Strategy, as part of the FDCA's "Breaking the Cycle" initiative. On July 14, 1998 the BCC approved subcontracts with the cities of Dade City, New Port Richey, Port Richey, San Antonio, St. Leo and Zephyrhills to develop a single, unified Local Mitigation Strategy for Pasco County. Pasco County has developed the Local Mitigation Strategy using the Federal Emergency Management Agency publication entitled, "*Local Multi-Hazard Mitigation Guidance*."

The Contractual Services Agreement and subcontracts entered into during 1998 remain in effect and are the ongoing legal basis for updating and maintaining the multi-jurisdictional LMS for Pasco County.

This was the first mitigation partnership established between Pasco County government and its municipalities. Close coordination and cooperation in the planning effort between county and municipal government has been critically important in the development and maintaining of the Local Mitigation Strategy.

B. HAZARD MITIGATION COMMITTEE (HMC)

The overall Hazard Mitigation Committee (HMC) includes Participants, and Other Interested Parties (OIP). The Hazard Mitigation Committee develops the Local Mitigation Strategy (LMS) by establishing a planning schedule, establishing goals and objectives for the LMS, identifying the hazards threatening the Community, estimating the level of risk posed by those hazards, determining the vulnerability to the identified hazards, analyzing current mitigation policies and programs, identifying and justifying proposed mitigation “initiatives”, ensuring development of the LMS, and periodically reviewing and updating the LMS as necessary. The HMC will reconvene annually in January to review and amend (if deemed necessary) the LMS. (See **Acknowledgements** at the beginning of this document for HMC members.)

The organization chart in Figure 1 (next page) explains the relationship between the Board of County Commissioners, City Councils, and the Hazard Mitigation Committee.

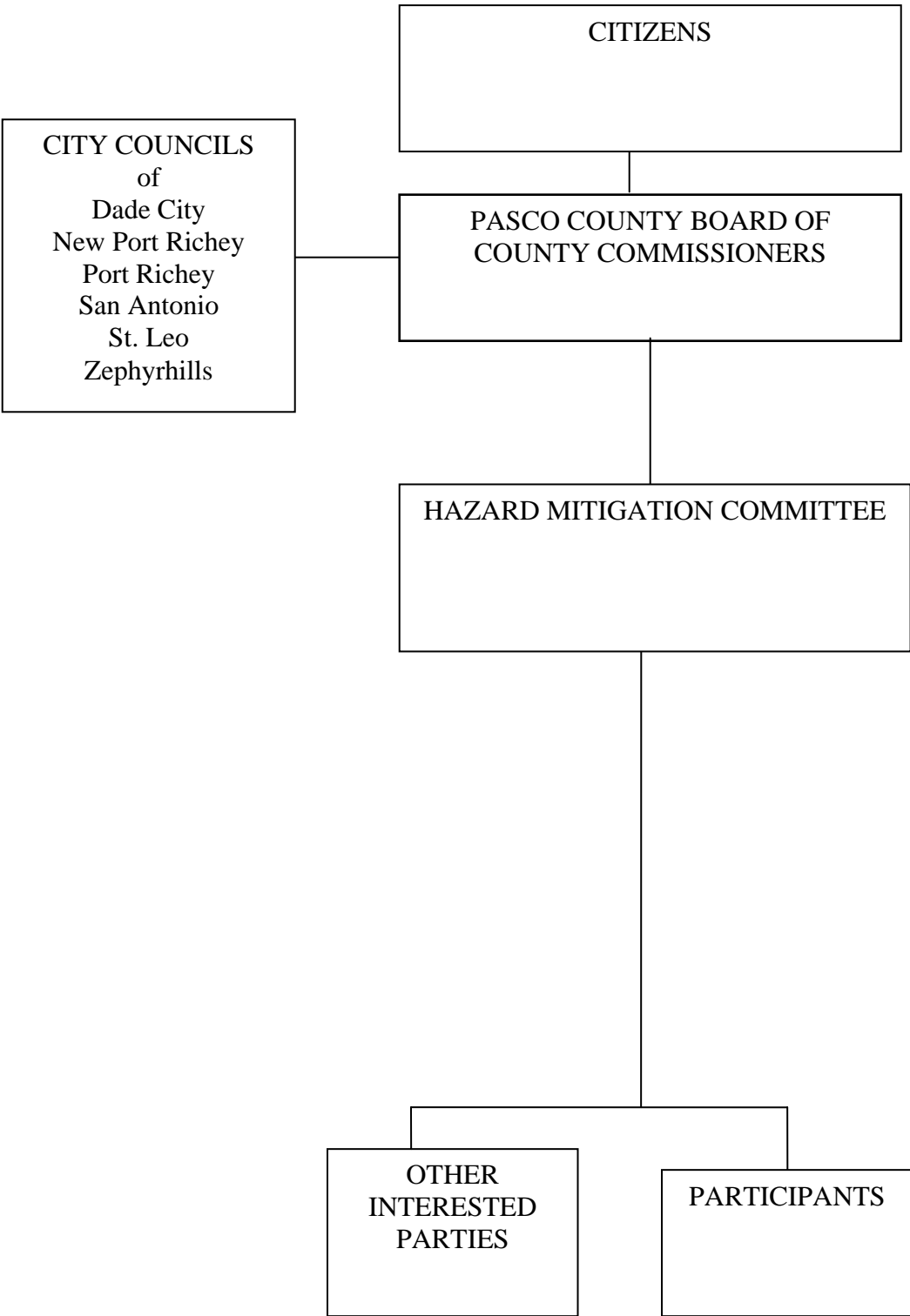
Through the involvement of the members of the Participants and Other Interested Parties, the Hazard Mitigation Committee (HMC) coordinated the development of the LMS with neighboring communities, local and regional agencies involved in hazard mitigation activities, agencies that have the authority to regulate development, businesses, academia and other private and non-private interests. These agencies and groups were invited and encouraged to actively participate in the planning process by becoming Committee Members. The representatives’ acceptance of the invitation and agreement to become Committee Members initiated their commitment to the effort. The representatives committed their time and available resources to develop a mitigation strategy that would protect life, property, and the environment as well as contribute to the economic well being of the County.

Each participating agency and group presented its programs, identified mitigation opportunities and subsequently had an opportunity to comment on preliminary and draft versions of the LMS. The HMC reviewed each agency’s function and identified more opportunities, including some applicable to agencies not present. The HMC incorporated appropriate comments and distributed a final copy of the LMS to all participants.

There were several Hazard Mitigation Committee Meetings held during the 2009 update to the LMS. **Please see Appendix G for more information concerning the meetings along with a description of the planning process for the 2009 update.**

Figure 1

Mitigation Planning Organization Chart



At the conclusion of the 2009 update to the LMS and after approval is provided by FEMA, formally executed resolutions will be adopted by the governing bodies of the participating jurisdictions (Pasco County, Dade City, New Port Richey, Port Richey, St. Leo, San Antonio, and Zephyrhills) and included in Appendix G.

C. HAZARD MITIGATION PLANNING COMMITTEE (HMPC)

The Hazard Mitigation Planning Committee (HMPC) is comprised of at least one voting representative each from the cities of Dade City, New Port Richey, Port Richey, St. Leo, San Antonio and Zephyrhills, as well as two appointed voting representatives from Pasco County. The HMPC is responsible for reviewing and approving the Local Mitigation Strategy (LMS), as well as reviewing and approving any future amendments.

D. PARTICIPANTS

Participants are defined as those entities that would be eligible applicants for federal assistance in case of a disaster. This includes public agencies and private non-profits assigned responsibilities under the Comprehensive Emergency Management Plan (CEMP). Participants also include Office of Emergency Management staff, and support staff from county and city departments, such as Community Development, Development Review Services, GIS/Survey, Growth Management/Zoning, Public Works, Environmental Lands Acquisition and Management Program, and Stormwater Management.

E. OTHER INTERESTED PARTIES (OIP) – PUBLIC PARTICIPATION

In order to ensure a cross-section of the community was involved in the development of the Local Mitigation Strategy (LMS), a designation of “Other Interested Parties” was established. Other Interested Parties (OIP) are citizens, businesses, contiguous counties, regional entities, etc. who may be affected by provisions in the plan. Other Interested Parties (OIP) do not have any requirements for participation. OIP were responsible for reviewing the work products developed by the Participants and providing comment to the Hazard Mitigation Committee (HMC). All interested parties were encouraged to review and comment on the plan and submit projects. Between October 2008 and February 29, 2009, four public meetings were noticed and held to encourage public participation and comment. The notices were placed in the local newspapers, the Emergency Management Website, the Pasco County Website, the local government television channel, and posted in government buildings.

Some of the agencies, organizations, associations and businesses represented in OIP are the American Red Cross, Greater Dade City Chamber of Commerce, Emergency Management Representatives from surrounding counties, and Pasco County Economic Development Council. Representatives from each of the six City governments were given the opportunity to appoint three members which generally include one elected official, one business/industry representative and one appointment at large. A complete roster of OIP organizations and their representatives, along with all HMC members, can be found in Acknowledgements, at the very beginning of this manual.

Pasco County is dedicated to involving the public directly in the continual reshaping and updating of the LMS. The HMC members continue to be responsible for the annual review and update of the LMS. Although they represent the public to some extent, the public was able to directly comment on and provide feedback concerning the LMS. Following each meeting, the draft sections were placed on the Emergency Management website for public review. The display also included an email address to provide feedback to the Office of Emergency Management.

Upon approval by FEMA of the plan, copies of the LMS Update will be catalogued and kept on hand at County Public Libraries, as well as the New Port Richey Library and published on the Pasco County Office of Emergency Management Website. The existence and location of these copies will be publicized in public notices. The copies in the libraries will have a first page in the binder containing the address and phone number of the County Emergency Management Staff Member(s) responsible for keeping track of public comments on the plan. A notice will also be posted on the County website regarding the public availability of the LMS Update copies in the libraries.

A copy of the LMS final draft was placed on the Pasco County website. The site also contains an e-mail address and phone number to which people can direct their comments or concerns. On the website, the public was invited to review the draft. Any comments were to be sent via email or by phone call to the Office of Emergency Management. The email address and phone number were listed on the website. The approved plan will be on the Emergency Management website to allow the public to comment on the final version prior to approval by the participating jurisdictions.

A public meeting will be held in conjunction with each of the upcoming annual Hazard Mitigation Planning Committee meeting. This meeting will provide the public a forum for expressing concerns, opinions and/or ideas about the LMS. The County Emergency Management Director will publicize and host this meeting.

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III. LOCAL MITIGATION STRATEGY COMPONENTS

A. PROFILE OF PASCO COUNTY

1. Natural Features and Topography

Pasco County is located on the west central coast of Florida, bordered on the north by Hernando County, on the east by Polk and Sumter Counties, on the south by Hillsborough and Pinellas Counties and on the west by the Gulf of Mexico. The land area for Pasco County totals 868 square miles, approximately 745 square miles of land area and 123 square miles of water (inland, coastal, territorial, new reservoirs and other man-made lakes).

The County is characterized by discontinuous highlands in the form of ridges separated by broad valleys. The ridges are above the static level of the water in the aquifer, but the broad valleys are below it. Broad shallow lakes are common on the valley floors, and smaller deep lakes are on the ridges. Based on physiography, the County can be divided into five areas: the Coastal Swamps, the Gulf Coastal Lowlands, the Brooksville Ridge, the Tsala Apopka Plain, and the Western Valley.

The Coastal Swamp area of the County extends the length of the County and is approximately two miles in width. As one goes inland, the terrain changes gradually from shallow marine water to salt marshes to freshwater swamps. The Gulf Coastal Lowlands lie between the Coastal Swamps and the Brooksville Ridge and the Western Valley. The elevation ranges between 10 and 50 feet above sea level. The Brooksville Ridge extends south from Hernando County to about the area of Zephyrhills. It extends from C.R. 581 on the west to U.S. Hwy 301 on the east. The elevation varies from about 70 to 300 feet over short distances. The Tsala Apopka Plain extends south from Hernando County east of U.S. 301 to about three miles north of Dade City. It is about six miles wide and ranges in elevation from about 75 to 85 feet above sea level. The Western Valley extends the length of the County on the eastern side. The Valley turns west at the termination of the Brooksville Ridge and unites with the Gulf Coastal Lowlands at Zephyrhills Gap. It contains the valleys of the Withlacoochee and Hillsborough Rivers.

The Withlacoochee, Hillsborough, Pithlachascotee and Anclote Rivers are the major permanent streams and surface drainage systems in the County. Numerous small streams and creeks are found along the coast, and most of the springs lie along the coastal areas, some with submarine openings. Approximately 195 lakes, ranging in size from one acre to 693 acres can be found in the County. During extended dry periods, many of the lakes are greatly reduced in size and/or dry up completely.

Approximately 24% of Pasco County is located in the 100-year flood plain (112,538 acres) and is vulnerable to localized fresh water flooding. In addition, 8% (4,291.8 acres) of the County is located in the Coastal High Hazard Area and subject to salt water flooding.

2. Demographics

Pasco County ranks 12th in the State for population and has a population density of 604.3 persons per square mile. The 2000 US Census indicates the total County population as 344,765 while the 2006 Estimate defines the population as 450,171. The county growth rate during 2000 –2006 was 30.6%, the highest in the Tampa Bay Area (2000 Census and 2006 American Community Survey, US Bureau of the Census).

The majority or 54.6% of the County’s population is 0-44 years of age and 45.4% is 45 years and older and the median age is 42.1 years. During the period between the 2000 Census and the 2006 American Community Survey population estimate, the population in age groups 0-14, 15-24 and 25-44 increased by 28%, 64.9%, and 43.8% respectively, resulting in a second significant demographic shift to an even younger overall population.

Table 2.1 Age Structure – Pasco County – 2006

Age Groups	No. of Persons	Percentage of All 2006	Percentage Change 2000-2006
0-14	74,539	16.6	28
15-24	51,864	11.5	64.9
25-44	119,506	26.5	43.8
45-64	109,377	24.3	37.4
65+	94,885	21.1	2.7
Total	450,171		30.6

Source: 2006 American Community Survey, US Bureau of the Census.

The 2000 Census recorded approximately 50% of the population (172,356 persons) residing in the Western part of the County in Evacuation Zones A through E. As a result of the continued development in Wesley Chapel, approximately 23.6 % of the population (81,327 persons) resides in the areas East of Interstate 75. The population in the central portion of the County, between the Suncoast Parkway and Interstate 75, is approximately 11.7 % (40,330 persons) of the population.

The 2006 population estimates showed municipal population inclusion to be 9.5%. The vast majority, 90.5%, of the County’s population is distributed in unincorporated areas, indicative of a decentralized and rural settlement pattern.

Table 2.2 Population Distribution – Incorporated and Unincorporated Areas of Pasco County – 2000 and 2006

POPULATION	2000 CENSUS	2006 Estimate
Unincorporated Pasco County	307306	407398
Dade City	6188	6924
New Port Richey City	16117	17658
Port Richey City	3021	3400
St Leo Town	595	1250
San Antonio City	655	962
Zephyrhills City	10883	12579
Pasco County (total)	344765	450171

Source: 2000 Census and 2006 Estimate.

The seasonal population in Pasco County was estimated to be 64,611 in 1997 with an annual growth rate of 1.66%. Given this growth rate, an estimation of the population of 74,931 in 2006 is derived. The 2000 Census reported 14,915 occupied seasonal housing units in the County indicating that at least half of the estimated seasonal residents reside in permanent housing, rather than resorts or hotels. Generally, seasonal residents spend an estimated 6 months per year in Florida.

Despite significant physical development, Pasco remains a bedroom community of the Tampa Bay area and is the residential destination of many neighboring counties. People moving into the county accounted for 105,406 persons, or 23.4% of the population for the 2000-2006 period.

Approximately 55.2% of people in the county commute to work outside Pasco County and this percentage is the highest of any county in the Tampa Bay area.

Pasco County includes 212,960 housing units with a density of 285.9 housing units per square mile. The overwhelming majority of housing or 92.1% of the housing stock is located in unincorporated areas while only 7.9% is located in municipalities.

Table 2.3 Housing Units in Pasco County

New Port Richey	8,428
Dade City	2,818
Zephyrhills	6,167
Port Richey	1,746
San Antonio	461
St. Leo	116
Pasco County	193,224

Source: 2006 American Community Survey, US Bureau of the Census

Table 2.4 Pasco County Housing Characteristics	Number	Percent
OCCUPANCY STATUS		
Total housing units	212,960	100
Occupied housing units	184,664	86.7
Vacant housing units	28,296	13.3
TENURE		
Occupied housing units	184,664	100
Owner-occupied housing units	142,695	77.2
Renter-occupied housing units	41,969	22.8

Source: 2006 American Community Survey, US Census Bureau

3. Housing Mix

Pasco County: The overall housing mix of single-family, multi-family, mobile homes and recreational vehicle housing is expected to continue through the year 2015. The breakdown is 143,739 (67.5%) single-family units, 24,026 (11.2%) multi-family units, and 45,195 (21.2%) mobile homes and recreational vehicles. Approximately 64.3% were built since 1980, 24.5% in the 1970's, 7.4% in the 1960's, 2.2% in the 1950's, 1.6% in the 1940's or before.

Dade City: Total number of dwelling units in the City of Dade City is 2,818. Of these, 2,729 are single family units and 89 are multi-family. In addition, there are 200 recreational vehicles registered in the City. Approximately 1,830 dwelling units or 65% of the housing stock was built prior to 1975.

New Port Richey: There are a total of 8,428 dwelling units in the City of New Port Richey. There are 4,435 single-family units, 2,425 multi-family units and 1,388

mobile homes. Approximately 23% of the housing stock has been built since 1985, 13% was built between 1980 and 1985, 32% was built between 1970 and 1980, and 32% was built before 1970.

Port Richey: The City of Port Richey has 1,116 single-family homes, 480 duplex and multi-family homes and 150 mobile homes. Approximately 87% of the single-family homes, 21% of the duplex and multi-family homes and 100% of the mobile homes are built below the Base Flood Elevation.

St. Leo: The Town of St. Leo is home for Saint Leo University; the 2008 full-time student enrollment at the university is 2,120 of which 1,142 reside on campus. The Town is also home to Holy Name Monastery and Saint Leo Abbey. The Town of St. Leo has a large percentage of its population residing in religious institutional quarters or in student dormitories. The high ratio of institutional non-family living to single-family and multi-family living has no comparison in the County. According to Pasco County Property Appraiser data, there are 115 single-family homes and one duplex located in the Town. The majority of the housing stock was constructed prior to 2007.

San Antonio: There are 461 single-family and multi-family dwelling units in the City of San Antonio. Approximately 139 dwelling units, about 30%, of the City of San Antonio's housing stock is forty years or older. Approximately 46 dwelling units or 1% of the homes are approximately sixty years or older, having been built prior to 1939. Single-family homes comprise approximately 75% of the City's housing stock, 25% is multi-family. There are no mobile home parks located within the City limits.

Zephyrhills: The housing stock for the City of Zephyrhills totals 6,167 dwelling units. Of these, 3,219 are single-family homes, 1,850 are mobile homes and 1,170 are multi-family units. Approximately 28% of the housing stock or 1,727 units have been constructed since 1980. Approximately 32% of the housing stock dates from 1970-1980, 22% dates from 1960-1970, and 18% dates before 1960.

4. Business and Industry

The County civilian labor force was estimated by the Bureau of Business and Economic Research to be 187,391 in 2006 and the unemployment rate was 3.7%. Pasco County has only 84,034 people, or 44.8 percent of the employable population, employed in the County. The majority of employment is in retail trade (20.5%) and construction (14.2%).

Table 2.5 2006 Employment Estimates by Industry – Pasco County

Agriculture, forestry, fishing and hunting	971
Mining	58
Wholesale Trade	2,142
Retail Trade	17,237
Transportation and warehousing	1,223
Utilities	705
Manufacturing	4,127
Construction	11,939
Finance and Insurance	2,670
Real Estate	1,869

Source: Bureau of Economic and Business Research, Florida Statistical Abstract, 2007.

5. Future Land Use and Development Trends

Pasco County is located on the west central coast of Florida. More than half of the population resides along the Gulf of Mexico coast. Like other jurisdictions in the Tampa Area, Pasco County is experiencing growing pains as it converts from a rural county known for ranches and orange groves into a county that will be competitive in the new global economy. The Comprehensive Plan, Future Land Use Maps for Pasco County and the cities of Dade City, New Port Richey, Port Richey, St. Leo, San Antonio and Zephyrhills, indicate that the predominant need for land in the future will be for employment generating development including target industry and office in strategic locations.

According to the Tampa Bay Partnership, a large problem facing Pasco is the fact that approximately 46% of its workforce commute out of Pasco to go to work. This puts Pasco at a competitive disadvantage and burdens Pasco's roads. Therefore, the County's vision is to promote target business and industry to keep trips and jobs in Pasco County. New employment opportunities are envisioned to be accelerated near existing residences such as along the US Hwy 19 corridor, S.R.54/56, I-75/S.R. 52, I-75/C.R. 41, and U.S. 301.

According to the Urban Land Institute Report issued in 2008, Pasco County's residential demand will require approximately 36,000 acres over the next 20 years for single-family homes, 13,000 acres for townhouses and condominiums, and 800 acres for rental apartments. Almost 260,000 new people will be housed in these units. It is projected that Pasco County over the next two decades will grow by 12,900 people annually. This increase in residential demand will trigger demand for infrastructure including roads, evacuation routes, community services, sewer, water, stormwater management, fire services, police, schools, and electric.

The local jurisdiction of Zephyrhills (located in the Southeast corner of the County), foresees continued growth in residential development spurred by in-migration from Northern Hillsborough County. Residential development is most predominate along Eiland Boulevard which is SR 54 (EW) and runs through the northern portion of the City. Commercial development is primarily occurring on US 301 (NW).

Zephyrhills considers flooding to be a significant threat, since a hundred-year floodplain abuts the City immediately to the south and west. Recent flooding has occurred in the area of the Zephyr Basin and Silver Oaks due to continuing rains throughout 2003. The City is exploring options to mitigate flooding for the Silver Oaks area with the Southwest Florida Water Management District.

The local jurisdiction of Dade City (located in the Eastern portion of the County), foresees growth in residential development along SR 52 (EW) and the 301 corridor. Commercial growth is also expected to continue along these same routes. Right outside of the city limits of Dade City, targeted areas are planned to be redeveloped such as Tommy Town, Lacoochee, Trilby, and Trilacoochee.

Dade City considers a significant threat to be hazardous material spills. This is due to the city's proximity to a CSX rail line and heavy truck traffic on Highway 301. Notification is made to both the County and Emergency Services whenever hazardous material spills occur.

In conclusion, based on historic and projected future growth patterns, the Growth Management Department recommends that the location and distribution of government services including emergency management, evacuation routes, and hazard mitigation be evaluated to promote accessibility, quick response time and maximize efficiency.

B. GOALS AND OBJECTIVES

The core of the Local Mitigation Strategy is the development of "Goals and Objectives". The principles guide the identification of hazards and the assessment of the vulnerable area(s) within the community. This assessment ultimately drives the prioritization of pre-disaster mitigation projects and programs that will serve to eliminate loss of life and reduce property damage.

In order to identify and understand the current hazard mitigation and post-disaster redevelopment guidelines within Pasco County and its municipalities, a comprehensive review of the existing policies, programs, ordinances and plans was undertaken. First, Dade City, New Port Richey, Pasco County, Port Richey, San Antonio, St. Leo and Zephyrhills reviewed their existing documents, i.e. Comprehensive Plans, Land Development Regulations, Building Codes, Floodplain Management Plans, Stormwater Plans, and Ordinances, and documented the hazard mitigation and post-disaster redevelopment guidelines in accordance with fifteen categories. These categories that

were considered are 1) Public Health, Safety and Welfare, 2) Stormwater Management, 3) Floodplain Management, 4) Natural Resource Protection, 5) Land Development Regulations, 6) Infrastructure/Critical Facilities, 7) Building Codes, 8) Affordable Housing, 9) Business and Industry Protection, 10) Economic Development and Diversification, 11) Post-Disaster Redevelopment, 12) Hazard Awareness and Education, 13) Historical and Cultural Resources, 14) Inter-Governmental Coordination, and 15) Capital Improvements. A policy/objective, source of the reference and brief analysis was compiled. Upon completion of this list, the Working Group met several times to review the goals and objectives, and arrive at a consensus on the issues deemed most important to the Local Mitigation Strategy.

The Goals and Objectives in Appendix A are divided into broad subject categories. There are several broad Goals, numerous measurable Objectives, and Projects designed to be implementation mechanisms for each objective. Pasco County and the municipalities over the years have had programs, policies, ordinances and projects in place that served to enhance the Local Mitigation Strategy. However, as a result of the development of the Goals and Objectives, new ideas have been suggested and existing objectives reaffirmed.

Public education will continue to be a critical initiative, with a few enhancements, such as, the development of a comprehensive Hazard Information Library and coordination with business and industry in Post-Disaster Redevelopment initiatives. Hurricane shelter for the population at risk is a concern that has prompted the encouragement of a continuing review of the impact of new development on the existing hurricane sheltering capacities in Pasco County. Several new initiatives have been suggested or implemented which include the development of a Post-Disaster Recovery Ordinance, creation of additional Community Emergency Response Teams (CERT), the development and implementation of a Stormwater Management Program, the creation of the Environmental Lands Acquisition and Management Program, and the encouragement of owners/developers of mobile homes, mobile home parks (subdivisions) and recreational vehicle parks to provide certified emergency shelters in clubhouses (outside the Hurricane Vulnerability Zone).

C. HAZARD ANALYSIS

The third critical element in the Local Mitigation Strategy (LMS) is the comprehensive and accurate assessment of the natural and man-made hazards threatening the community. The Hazard Analysis and Vulnerability Assessment process begins with the identification of the types of hazards threatening the community, and the location (e.g., flood plain) and/or community function (e.g., water and sewer system) that would be damaged or disabled should the hazard strike. When placed on maps, some of the hazard areas are confined to specific areas or functions of the community, while others must be viewed as threatening the entire jurisdiction.

The objective of the delineation of a hazard area is to determine the people, property, and resources existing within the hazard area that would be vulnerable to harm in the event of

the hazards impact. Upon completion of this analysis, the most urgent and pressing hazards and vulnerabilities were addressed. In addition, projects and programs only address the most significant hazards.

To accomplish this objective, the Hazard Mitigation Committee (HMC) researched the natural, technological and societal hazards that threaten the County, as well as the areas and systems that are threatened by these hazards. An assessment was accomplished to determine the type of impact that would be experienced by these individual hazards. Figure 2, “Hazard Identification Table”, illustrates the types of hazards and why each was identified as a concern. Ultimately, this type of information was used to prioritize the hazard types warranting the committee’s attention. Additional data was collected and more information assessed for those hazards identified as higher priority.

The following agencies were contacted for input on the Hazards and Vulnerability Assessment: Pasco County Property Appraisers Office, Crystal River Nuclear Power Plant (50-mile Ingestion/Exposure Pathway), Florida Department of Environmental Protection (Coastal and River Oil Spills), National Weather Service (lightning strikes and tornado touchdowns), Florida Division of Forestry (wild fires) and the Southwest Florida Water Management District (sinkholes), Pasco County Fire Rescue, Pasco County Fire Inspector, Pasco County Tourism Council, Pasco County Development Review, Pasco County Hazardous Incident Team, State of Florida Division of Emergency Management, and Pasco County Office of Emergency Management.

Several Cities’ vulnerability to certain hazards differs from the County’s overall vulnerability. Dade City, San Antonio, St. Leo, and Zephyrhills are not vulnerable to coastal flooding, coastal/river erosion, tsunamis, or coastal/river oil spills because the cities are inland and do not have any rivers within city limits. Dade City, San Antonio, and Zephyrhills are vulnerable to landslides because they are the only areas with hills. Finally, Dade City, San Antonio, St. Leo, and Zephyrhills are not vulnerable to a nuclear power plant incident because each city is outside the 50 mile zone ingestion/exposure radius.

1. Natural Hazards

a. Earthquakes

- 1) History/Background: Although Pasco County has never experienced an earthquake, sediments and marine deposits along plate boundaries in the northern and Panhandle portions indicate the State could conceivably experience seismic activity. Such activity could generate failures, resulting in sinkholes and alternating river meandering in Pasco County. If a major earthquake occurred along the fault line in the Gulf of Mexico, some multistory buildings and a few bridges/overpasses could experience minor to moderate damage. Pasco County’s buildings are built to resist high wind, not earthquakes, but strong building codes in the County should prevent extensive

damage from occurring. The power plant in Pasco County could also experience some interruption.

- 2) Probability: According to the US Geological Survey (USGS), Pasco County is part of a stable continental region. Earthquakes are unlikely to occur.
- 3) Vulnerability: Although there would be a significant number of residents affected by an incident, the probability of occurrence is extremely low, but the economic cost would be high. The level of vulnerability of an earthquake is very low. There are no areas of the County that are considered vulnerable to earthquakes.

b. Tsunamis

- 1) History/Background: According to the USGS, tsunamis occur as a result of earthquakes, volcanic eruptions, and landslides. Pasco County has never experienced a tsunami. If a tsunami were to occur in the Gulf of Mexico, the results would be less than the storm surge from a Category 1 Hurricane. Minor to moderate damage would occur to coastal infrastructure.
- 2) Probability: Pasco County's vulnerability to earthquakes, volcanic eruptions and landslides is extremely low. Therefore, tsunamis are unlikely to occur.
- 3) Vulnerability: Although there would be a significant number of coastal residents affected by an incident, the probability of occurrence is extremely low, but the economic cost would be high. The level of vulnerability of a tsunami is very low. There are no areas of the County that are considered vulnerable to tsunamis.

c. Coastal and Riverine Erosion

- 1) History/Background: Erosion changes the shape and structure of the coastal areas and river banks. Pasco County's western boundary is adjacent to the Gulf of Mexico; therefore, the County is subject to coastal erosion resulting from tropical storms, hurricanes, strong waves, and high winds. The Withlacoochee, Hillsborough, Pithlachascotee and Anclote Rivers are major permanent streams and surface drainage systems in the County; therefore, these rivers make Pasco County susceptible to riverine erosion.
- 2) Probability: The probability of coastal and riverine erosion is moderate. Coastal and riverine erosion occurs in small amounts and has not occurred significantly enough to be measurable. If significant erosion occurred, Pasco County would experience a large change in the shape of the coastline and riverbanks and perhaps the loss of structures built close to the shore or river, including residences and businesses in those areas. Rivers become shallower, which increases the chance of flooding along the riverbank.

- 3) Vulnerability: A significant number of people living along the coast would be affected by coastal erosion. Relative to the number of people living along the coast, the number of people living along the rivers, and potentially impacted by riverine erosion, is significantly less. The economic costs are high, the likelihood of coastal erosion is moderate, and therefore the vulnerability of coastal erosion resulting from tropical storms and hurricanes is high because the County is at a high vulnerability to tropical storms and hurricanes. Pasco County's west coast borders the Gulf of Mexico. Therefore, the western coast, including the municipalities of New Port Richey and Port Richey, is vulnerable to coastal erosion. It is difficult to define areas of the County that are vulnerable to riverine erosion because the County has 4 rivers within County boundaries and each river has many tributaries. In 1998 and 2003 the County had significant periods of rainfall which caused the rivers and tributaries to swell, resulting in widespread flooding which affected all areas of the county including the municipalities.

d. Sinkholes/Landslides

- 1) History/Background: Sinkholes are depressions in the land surface that occur widely throughout West Central Florida. They can be shallow or deep, small or large, but all are a result of the dissolving of the underlying limestone by acidic water. Heavy rains or flooding can cause sinkholes. Water inundation can cause the soil "roof" over a cavity in the limestone to collapse resulting in a sinkhole. Sinkholes can also be caused by droughts that lower groundwater levels. The lower groundwater levels reduce the buoyant support of a cavity roof which can prompt a collapse.

There have been 2291 reported incidents of sinkholes from 1996 through 2008, for an average of 191 sinkholes reported annually. According to the Pasco County Development Review Services Department, 1,836 permits were pulled for incidents of sinkhole subsidence repairs between 2003 and 2008. The vast majority of the sinkholes occurred on private property and were investigated by the property owner's insurance company. The Office of Emergency Management does not investigate sink holes to determine if they are in fact sinkholes, or just subsidence from other causes.

Landslides are the movement of earth on a downward slope. According to the USGS, landslides can occur after floods, storm surges, hurricanes, wildfires and other hazards. Pasco County is vulnerable to floods, storm surges, hurricanes and wildfires. Throughout most of the county, there is little change in elevation. However, there are hills in Dade City, St. Leo, and San Antonio, providing the potential for a landslide to occur as a cascading event from one of the previously listed hazards. A landslide has not occurred in Pasco County.

- 2) Probability: The West Coast of Pasco County, including the municipalities of New Port Richey and Port Richey, is particularly prone to sinkhole occurrence due to its physiography. The probability of a sinkhole occurring in the County is high, although the individual risk is not great. Twice the monthly average of sinkhole incidents are received during the rainy season when compared to the dry season.

The overall probability of a landslide occurring in Pasco County is very low.

- 3) Vulnerability: The number of people affected by sinkhole damage is relatively small, the economic costs are not high, but the likelihood of sinkholes occurring is high, therefore, the vulnerability, as compared to the other hazards is moderate. The Office of Emergency Management documents all voluntary reports of subsidence on public or private property. Although no ordinance exists requiring individuals to either report subsidence or sinkholes or, if reported, to provide results of the investigation to the County; repair of damage due to a sinkhole requires a building permit. All buildings and infrastructure in the County are vulnerable to sinkholes. However, existing structures in the Northwest section of the County tend to have a higher occurrence of subsidence and are therefore more vulnerable.

The vulnerability for landslides is very low.

e. Hurricanes and Tropical Storms

- 1) History/Background: A violent tropical storm becomes a hurricane as winds exceed 64 knots (approximately 75 miles per hour). Because they are weather driven, hurricanes have a clear seasonal aspect and provide predictable lead-time for preparation. They begin over the oceans and usually make landfall before dissipating their energy. The advances of meteorological science in identifying and tracking tropical storms is the primary reason for the decline in their death toll in spite of skyrocketing coastal populations. Hurricanes pose a significant threat to Florida, especially for those residents living along the coast. Hurricanes are unstable and unreliable, but their brief life onshore can wreak extensive damage. Pasco County has been impacted by eleven hurricanes and tropical storms over the last sixteen years: Hurricane Elena, Hurricane Erin, Hurricane Opal, Tropical Storm Josephine, Hurricane Georges, Tropical Storm Gabrielle, Hurricane Charley, Hurricane Frances, Hurricane Jeanne, Tropical Storm Alberto and Tropical Storm Fay. The impact of hurricanes/tropical storms has typically been to the coastal portions of the county but has had minimal impact on the coastal municipalities. Tropical Storm Josephine was the exception, as the city of Port Richey sustained significant flooding due to storm surge. The damage as a result of Elena, Erin, Georges, Charley, Frances, and Jeanne was mostly due to power outages, fallen trees, debris, and minor localized flooding from rainfall. The eastern portion of the county, including Zephyrhills, Dade City, San Antonio

and St. Leo, sustained far less impact from hurricanes/tropical storms. Pasco County was also impacted in 1993 by the March 13th No Name Storm which caused significant damage to coastal Pasco County, including the municipalities of New Port Richey and Port Richey. Several thousand homes and businesses were inundated with between two and five feet of water. However, according to the Pasco County Incident Database and the historical records of the Office of Emergency Management, the threat of a hurricane impacting the area occurs annually. The economic impact associated with hurricanes (both emergency response costs associated with warnings and damage from impact) has totaled millions of dollars.

- 2) Probability: According to Colorado State University, Pasco County's 50-year probabilities for tropical storm and hurricane activity are as follows: 61.5% chance of at least one named storm making landfall in the county, 28.0% change of at least one hurricane making landfall, and 16.6% chance of one or more intense hurricanes making landfall. Based upon the high probability of the occurrence of tropical storms and hurricanes, Pasco County can be expected to have a tropical storm, hurricane threat or impact at least once a year.
- 3) Vulnerability: A hurricane can combine storm surge, powerful winds, tornados, and torrential rains into a devastating combination. Most of the hurricane's destructive work is done by the general rise in the height of the sea called storm surge. The storm surge is by far the most dangerous of the four hazards, historically causing nine out of ten hurricane-related deaths. This surge, when coupled with the breaking waves, will cause great destruction. The more intense the hurricane, and the closer to perpendicular its track in relation to the coastline, the higher the storm surge and resulting destruction will be. Also, impacting on the height of storm surge is the depth of the water along the threatened coastline. Due to the high shoaling factor (shallow water and gradual slope of the Gulf bottom) off the central West Coast of Florida, Pasco County will receive higher surges than those indicated in the Saffir/Simpson Hurricane Scale. High winds will also render large segments of the population vulnerable to the passing hurricane. As winds increase, pressure against objects is added at a disproportionate rate. Tall structures, like radio towers, can be destroyed by gusty hurricane force winds and some structures, such as mobile homes are particularly at risk. Pasco County has over 50,000 mobile homes registered in the County and all mobile home residents are required to evacuate in the event of a hurricane, irrespective of their location in the County. *Tornados* can also be produced by the hurricane's destructive power. Although they are not the most violent form of these whirlwinds, they add to the toll exacted by the hurricane. Finally, *heavy rains and flooding* can prove quite destructive. Hurricanes can bring six to twelve inches of rainfall to the area it crosses, and some have brought much more. Rainfall, in itself, will not normally require the emergency evacuation of large numbers of residents during the passage of a hurricane as does storm

surge and flooding. The ensuing rain, however, has the potential to slow traffic, overtax the stormwater drainage system, and hamper evacuation routes that could severely reduce the number of hours available for the overall evacuation. Flooding is a major threat to areas well inland of the hurricane impact that requires the evacuation of coastal residents and mobile home residents. The potential wind and flood damage from a Category 5 hurricane could result in over \$30 billion in damage to homes, businesses, employers and public service providers and displace almost half of the residents in Pasco County. The permanent population living within evacuation levels A-E totals 172,356 or 50% of the population, excluding the mobile home population elsewhere in the County.

Pasco County is considered highly vulnerable to hurricanes due to existing development, coastal population, the age of the population and the history of events. The number of people affected by hurricanes and coastal storms is significant, the economic costs are high, the likelihood of hurricanes and coastal storms is moderate, and the vulnerability is high. All buildings and infrastructure in the County are vulnerable to hurricanes and tropical storms.

f. Severe Storms/Tornados

- 1) History/Background: Tornados materialize at the trailing edge of large frontal cyclones that result from the clash of high pressure and low-pressure weather systems moving at continental scales across North America, also called severe storms. Severe storms are typically rain and wind events, but sometimes cause tornados. (See section on Hurricanes and Tropical Storms and Flooding for more information on rain and wind events.) Tornados can also occur as cascading events during hurricanes. Because of climatic differences, southern states like Florida experience their most violent tornados in winter. Most tornados are of short duration and do not touch down as the EF 4 or 5 tornados that make national headlines. Damages do not occur solely at the center of the tornado's path or only after touchdown. Between 1994 and 2008, there were 49 reported tornado touch downs in Pasco County, mostly minor, but all with varying amounts of damage. Pasco County receives tornado watch/warnings from the National Weather Service Office in Ruskin, and response is documented in the Pasco County Incident Database.

On September 22, 1996 in New Port Richey, in the Colonial Hills Subdivision at U.S. Hwy 19 and S.R.54 a tornado occurred and caused over \$10,000 in damages. On June 29, 2003, a tornado passed through Dade City and damaged mostly trees and power lines over an area 12 blocks long and one block wide, basically along Coleman Street between 7th Ave and 17th Ave. The tornado wind estimate was 70 mph. Damage to four homes and three cars were a result of trees falling on them. Many trees were pushed over by the tornado but most of these trees had signs of rot and the ground was saturated.

The local utility reported 2,700 people without power after the event. Damage was estimated at \$40,000 but cleanup costs were estimated at \$60,000.

The following year two more tornados occurred. On August 14, 2004, a brief tornado was reported near Osceola Drive and Massachusetts Avenue in New Port Richey. No damage was reported. Feeder bands associated with the southwest side of what was Hurricane Charley produced several tornados the day after Charley moved through the area. Less than one month later, the broadcast media relayed a report of a tornado in Sea Pines Subdivision in Aripeka with several fallen trees, including a 60 foot tall tree that fell across the road. No injuries or other damage was reported.

On May 31, 2005 a small northward moving thunderstorm collided with an eastward moving squall line and produced a brief F1 tornado that crossed the intersection of U.S. Highway 41 and State Road 54 in Land O Lakes. A fast food restaurant lost a plate glass window and a lumber yard had wood thrown about and roof damage, a strip mall had roof damage, and eighteen homes had minor damage as large limbs from oak trees fell on the homes.

In 2006, two tornados occurred. The first was a brief touch down in an open field and caused no damage. The second occurred on December 25. The tornado hit the Tampa Bay Golf and Country Club which is located a few miles west of San Antonio or about 9.5 miles west southwest of Dade City. Radar showed the tornado occurred on the north side of a small bow echo that was moving to the northeast and caused additional damage south of State Road 52. The tornado caused \$3.5 million in damage, two injuries, 101 damaged homes, 21 of which were considered heavily damaged, and 6 destroyed. Most of the damage was rated F0 or F1 on the Fujita tornado scale. However, damage rated as F2 occurred on the 2900 block of Caddyshack Lane. The damage looked like high end F1 damage, but the 1999 home had hurricane straps, a reinforced garage door, and other protective measures making it stronger than the average home.

A housing annex worth \$750,000 at the county jail was destroyed by an F1 tornado on December 16, 2007. The 125 inmates living in the annex were evacuated before it was destroyed, resulting in zero injuries. There was also roof damage to a fire station, four vehicles were flipped and there were numerous trees and power poles downed. Total damage amounted to \$1,853,530. A strong cold front combined with the remnants of Tropical Depression Olga to produce hazardous weather in west central Florida. The tornado formed from a long-lived super cell thunderstorm that moved onshore from the Gulf of Mexico.

On April 14, 2009, two tornados struck Pasco County. The first touched down in Pinellas County and moved through the Southwest corner of Pasco as an EF-1 tornado. Roughly 50 homes had light damage and seven homes had

moderate or greater damage. The second tornado occurred in Wesley Chapel and was an EF-0. Light damage occurred to six homes. Cost estimates are unavailable as all reported damage was to private property and the homeowners are negotiating with their insurance companies. The cost of tree and debris removal was minimal because the storm occurred during normal business hours.

- 2) Probability: According to the National Oceanic and Atmospheric Association, as of 2004 Florida was ranked number 1 in the number of tornados per square mile, most of which are weak, and referred to as "spawn tornados." However, strong ones do occur. While tornados can occur at any time during the day or night, they tend to form during the late afternoon and into the evening. Based on a historical trend over the past five years, Pasco County can expect to receive 1.4 tornado touchdowns per year. The expected tornado size would be approximately 20 yards wide, with a .1 mile path. Most tornados are expected to touchdown for relatively short periods of time in a bounce type pattern. The occurrence of a tornado touchdown on an annual basis is considered high. Severe storms occur regularly throughout the year, but do not always cause damage.
- 3) Vulnerability: Due to the frequency and unpredictable pattern of tornados, all of Pasco County is vulnerable to tornado induced damages. The probability of occurrence is high, the damage potential is high due to the concentrations of populated areas, large number of mobile homes and manufactured housing units throughout the County. Since the costs associated with an individual event are not considered high, but the population affected may be high, the level of vulnerability is considered moderate. The vulnerability to severe storms is also high as they occur regularly and have the potential to cause damage.

g. Floods

- 1) History/Background: Flooding typically involves the overflowing of the normal flood channels, rivers or streams as a result of prolonged rainfall. The lateral spread of floodwater is largely a function of the terrain, becoming greater in wide, flat areas, and affecting narrower areas in steep terrain. Variations in circumstances affect the duration of the inundation of the floodplain with rapid water movement draining floodplains faster. The duration of storm patterns also affects the length of the period of inundation. Many storms unleash considerable amounts of rain within just hours, producing very short-term but damaging floods in localized areas. The key contributing factors in identifying the scope of the local flood hazard are: the size of the watershed; development within the watershed affecting stormwater runoff; soil characteristics; topographic characteristics affecting the direction and flow of flood waters; and regional climate. Increasing impervious surface, building obstructions to the flow of water along the riverbank, or

allowing sedimentation through stream bank erosion all contribute to an escalation of the probabilities of flooding, and thus change 100- year floodplains into 80-year or 50-year floodplains.

Pasco County is subject to riverine flooding, closed basin flooding, and coastal flooding. Sometimes these floods occur as flash floods. The National Weather Service differentiates flood events based on the cause. Riverine and closed basin flooding occur due to rainfall events and are fresh water floods. Coastal flooding is a salt water flood that occurs as a result of storm surge (wind driven water) or heavy rain, which is exacerbated by an astronomical high tide. The Growth Management Department has reviewed the County's Flood Insurance Rate Maps (FIRMs) and Flood Insurance Studies (FIS) to compile a profile of the flooding hazard in the County. The Floodprone Areas and Floodplains Maps in Appendix B reflect the areas, and when combined with the critical structures map, give a picture of areas and structures most vulnerable to flooding.

The Withlacoochee River lies within the northeast quadrant of the County and the Anclote River lies within the southwestern section of the County. The Pithlachascotee River enters the mid section of the County from the Gulf of Mexico. Rainfall over several days causes these rivers to exceed their banks and tend to overflow. Many of the residents along these rivers are in a floodplain that can flood on almost an annual basis at least once per year, and most residents are aware of this hazard and plan accordingly.

The areas surrounding the Withlacoochee and Anclote Rivers are subject to flood damage because so many people live in the area.

The "no name" storm of 1993 and Tropical Storm Josephine in 1998 caused flood surges from the Gulf of Mexico to travel up the Pithlachascotee River. There is potential for repeat occurrences of flood surges along this heavily populated river during future tropical storms and hurricanes.

Flood damage probability is high in Pasco County because a large number of the existing homes were built pre-Flood Insurance Rate Map (FIRM), there are insufficient stormwater systems to handle rainfall accumulation, and people tend to settle in areas previously impacted by a flooding event.

Pasco County is a Category C Repetitive Loss Community because it has ten or more repetitive loss properties. Pasco County's repetitive loss properties are located in areas developed prior to the County joining the National Flood Insurance Program (NFIP). These areas have streets and drainage systems, which were developed prior to the delineation of the floodplain. Structures in these areas were almost always placed on the existing grade and very few were elevated to the base flood elevations designated by the NFIP. Local

drainage problems, freshwater rainfall, tropical storms, hurricanes and rivers overflowing their banks have caused flooding within Pasco County.

The flood prone properties in Pasco County have been identified based upon the El Niño flooding event that occurred from December 1997 to April 1998. These properties have been identified in the Hazard Mitigation Map Series as "Floodprone Areas". These floodprone properties are located along the following roadways: Chancey Road from New River to Sandy Drive; Bass Lake Drive, Yellow Lake Drive, Scout Lake Drive, Sunshine Road, Silver Oaks, Moon Lake Road, Hickory Hills Road, Wire Road and Phelps Road, and Frierson and Lake Karl. The number of structures and value of the property lying within floodprone areas (which have not been identified on the Flood Insurance Rate Maps as lying within a flood zone) is as follows: 1,806 acres are prone to flooding, which includes approximately 650 single-family and mobile homes and 18 non-residential buildings (commercial, industrial, agricultural and public). As of 2004, the land value totaled \$22,473,689 and the structures were valued at \$32,618,096.

The most recent flooding in the County occurred from May through September of 2003. While many areas were affected, areas in the Northwest portion of the County experienced sustained levels of flooding over a period of several weeks as rains continued on almost a daily basis. Several areas not previously designated as floodplain areas experienced flooding for the first time.

- 2) Probability: Although flooding does result from hurricanes, it can also occur during winter storms, as well as during prolonged summer thunderstorm activity. Prolonged periods of rainfall have shown increased potential for causing damage to property and the need for evacuation of residents due to flooding. The problem becomes more severe should the heavy rainfall occur at the same time as the astronomical high tide, thus preventing much of the rainfall from flowing through the drainage system into the Gulf of Mexico and causing Coastal Flooding. Although, Pasco County has elevation requirements and stormwater runoff systems, flooding is a natural event. The return rate based on reported incidents is at least annually. The probability of floods is high.
- 3) Vulnerability: The probability of repeated fresh water flooding, inability to accommodate the existing drainage problems due to a lack of funding and the location of the pre-FIRM housing stock results in a high level of vulnerability. A significant number of people can be affected by flooding. The most vulnerable areas are those that include pre-FIRM housing and the majority of pre-FIRM housing is located within the municipal limits and West of US 41 in the unincorporated areas. The economic costs are high and the likelihood of flooding is also high. The historical records of the Pasco County Office of Emergency Management were used to document the occurrences of flooding

within the county. The Community Rating System report documents the repetitive loss properties within the County.

h. Wildfires

- 1) History/Background: With the exception of fires triggered by lightning strikes, which are usually mitigated in their impact by the precipitation of an accompanying thunderstorm, wildfires tend to be the culmination of hot, dry weather patterns that merely create the conditions for their occurrence. Once those conditions and the buildup of dry fuel to feed a fire are in place, the occurrence of a conflagration depends simply on the right spark in the right place and the disaster is set in motion. Wildfires often begin unnoticed. The three factors contributing directly to the behavior of wildfires are topography, fuel and weather. Wildfires spread quickly igniting brush, trees and homes. Every year, thousands of acres of wildland and many homes are destroyed by fires that can erupt at any time of the year from a variety of causes including arson, lightning and debris burning.

But like other natural processes, such as flooding, wildfires serve a purpose in the ecosystem regardless of their inconvenience for humans. In the wildland, they have always served to clear underbrush from the forest and allow the regeneration of certain species at the expense of others. With or without the human presence, fire is a part of nature. Our efforts to eliminate wildfires from the natural environment, rather than helping matters, have served to make such fires more severe when they occur. Vegetative fuels accumulate in the forest under story, and when fires occur, they are more severe and disastrous than might otherwise have been the case. It is important to integrate the role of wildfires in understanding wildland ecosystems, and to incorporate these findings in planning for development that occurs at the interface between growing urban areas and this wildland. This is the area that becomes the focus of hazard identification efforts as part of the process of planning both for mitigation and post disaster recovery and reconstruction.

Adding to the fire hazard is the growing number of people living in new communities built in areas that were once wildland. Pasco County has approximately one-third of its acreage as undeveloped, forested or pastureland. As more development occurs adjacent to these areas, the County becomes susceptible to wildfire at the wildland/urban interface areas. According to the Florid Division of Forestry, the probability exists for at least five significant wildland fires in Pasco County per year. The level of vulnerability is high throughout the County due to the patterns and location of new development, probability of occurrence based on fuel types, and costs associated with these events. Florida Division of Forestry reported 286 wildfires in Pasco County from 2003 to 2008 involving over 6,248 acres, bringing the total number of wildfires from 1994 to 2008 to 348.

- 2) Probability: The predominance of forested acreage, current patterns of development and historical weather conditions indicate the probability of occurrence is high. The threat of fires cannot be eliminated, but public education and the use of prescribed burns can be used to better manage this hazard. The probability exists for at least five wildland fires in Pasco County per year.
- 3) Vulnerability: There have been several areas identified by the Florida Department of Agriculture and Consumer Services-Division of Forestry as problem areas. These areas include: 1) Old Dixie Highway in Hudson (Sections 11, 12, 14, 22, 27, 28, Township 24, Range 16), 2) Tanglewood Subdivision in New Port Richey (Sections 25 and 36, Township 25, Range 16), 3) River Ridge Subdivision in New Port Richey (Sections 29, 30, 31, 32, 33, Township 25, Range 17), 4) Trinity Communities in New Port Richey (Sections 34, 35, 36, Township 26, Range 16), and 5) Quail Hollow Subdivision in Wesley Chapel (Sections 1, 2, 3, Township 26, Range 19, and Sections 34, 35, 36, Township 25, Range 19). Although Pasco County does not have problems as severe as adjacent counties, a significant number of people in the County can be impacted by wildfires. The level of vulnerability is high due to the patterns and location of new development, and there is a high probability of occurrence and costs associated with these events.

i. Dam/Levee Failure

- 1) History/Background: Dam failure typically refers to the collapse, overtopping, or breaching of the embankment of a dam. Pasco County has one dam and one levee. Geiger Dam is located on Zephyr Creek, just upstream of the City of Zephyrhills. The levee is part of a reservoir in Land O' Lakes.
- 2) Probability: Pasco County has never experienced a dam or levee failure. The failure of the embankment could cause flooding downstream of the dam. There are approximately 240 homes in danger of flooding from an embankment failure at Geiger Dam. An embankment failure at the levee in Land O' Lakes could cause minor flooding to a few homes and possible flooding at a water treatment facility nearby. Failures usually occur as a result of severe storms or hurricanes which produce several feet of rain fall during a short timeframe. The probability of occurrence is very low.
- 3) Vulnerability: An embankment failure at Geiger Dam would send water flowing Southeasterly through Zephyr Creek, and a failure at the reservoir would send water flowing West-southwest. The extent of flooding at both sites would depend on the size of the breach and the amount of water in Geiger Pond or the reservoir. The floodwater could damage or destroy many homes in the area. There is also a water treatment facility near the reservoir that could sustain damage if a failure occurred on the Southerly portion of the

reservoir. Without warning to evacuate, loss of life is possible. The economic costs are low and the overall vulnerability is low.

j. Drought/Heat Wave

- 1) History/Background: The direct physical effects of drought typically include poor crops and foliage, increased fire danger, less water in the soil, streams and reservoirs, and less water available for livestock and wildlife. These lead to indirect effects such as less farm income, foreclosures, and reduced revenues for vendors and retailers who serve agricultural producers. Current drought conditions have caused some trees to become unstable. Should the County experience a wind or rain event, structures will be in danger from falling trees. The extent of danger from falling trees is unknown. The extent of social effects of extreme drought and heat waves includes brown outs, potential loss of life in the elderly and other at risk populations, and possible water restrictions. In Pasco County many owners of smaller properties use agricultural exemptions to raise cattle, harvest hay, plant citrus groves and cultivate tree farms. However, there has been a recent decline in the total amount of agricultural acreage in the County. This decline can be attributed to the purchase of acreage by public entities as public lands and also the shift of this acreage from agriculture to residential use. The County has experienced a number of prolonged dry periods in the past twenty years. Pasco County experienced prolonged drought conditions between 1998 and 2008 which resulted in many failed wells and ecological impacts to businesses in the spring of 2000. This trend is expected to continue.
- 2) Probability: The probability of the occurrence of a drought is high, given historical weather patterns.
- 3) Vulnerability: Pasco County has a significant amount of acreage designated as conservation, public lands and agricultural land uses. When this acreage becomes parched during a drought, the area becomes vulnerable to wildfires. The economic impact from these events has not been high, as other reasons have been cited for the decrease in agricultural land uses. Therefore, the vulnerability is considered low due to the number of people impacted by a drought being not overly significant and compared to other events the economic costs are low. Pasco County's agricultural areas are most vulnerable to drought conditions as a result of the economic impact.

k. Winter Storms/Freezes

- 1) History/Background: The County has experienced moderate to severe freezes in the past. The occurrences have increased dramatically with an average of one significant freeze per year. The cold weather shelters open when the temperature falls below 36 degrees. Between 1994 and 2008, the shelters opened for 60 weather incidents. Unlike a drought, a freeze does not continue

for an extended period of time, and precautions are taken by the residential and agricultural community to minimize the impacts. Both winter storms and freezes impact business conducted by farmers.

- 2) Probability: The probability of the occurrence of a freeze (below 36 degrees) is high, given historical weather patterns.
- 3) Vulnerability: The economic impact from these events has not been high, as less and less land in Pasco County is used for agricultural purposes. The vulnerability is considered low. The number of people impacted by a freeze is not overly significant and, compared to other events, the economic costs are low. Pasco County's agricultural areas are most vulnerable to winter storms and freezes as a result of the economic impact.

l. Lightning Strikes

- 1) History/Background: The State of Florida has an unusually high incidence of lightning strikes and thunderstorms causing death and injury. Lightning occurs mostly in the months of May through October. There were 75 lightning strikes reported in Pasco County between 1994 and 2003, as documented by the National Weather Service. In addition, in the last five years Pasco County has experienced five major lightning strikes that have resulted in human and animal fatalities, bringing the total number of lightning strikes for 1994 through 2008 to 80. These incidents caused personal death/injury, power outages, property damage and ignited wildfires. The economic impact associated with a lightning strike, primarily associated with personal property loss is estimated at \$10,000.
- 2) Probability: There is a high probability that lightning strikes will continue to occur in Pasco County resulting in the ignition of wildfires, injury and personal property damage.
- 3) Vulnerability: Although Pasco County has a high incidence of lightning strikes and thunderstorms, there are not a significant number of people impacted by these events. The economic costs are low, but response costs tend to be high, therefore, the level of vulnerability is moderate. All areas in the County are considered vulnerable to lightning strikes.

m. Exotic Pests

- 1) History/Background: Pasco County is subject to infestation of Mediterranean Fruit Flies, Citrus Canker, Red Ring Disease, etc. due to its significant agricultural base and the profusion of fruit trees. There have been no reports of major incidences in Pasco County.

- 2) Probability: The probability of exotic pest infestation is seasonal, depending on the growth cycle of the species.
- 3) Vulnerability: Commercial growers are extremely vulnerable to financial ruin from exotic pest infestation. Recovery from destruction of mature trees due to infestation takes years to overcome. The loss of income for multiple years would be financially devastating. While the probability of occurrence is moderate, the economic cost would be high to certain segments of the population. Therefore, the vulnerability would be high. Pasco County's agricultural areas are most vulnerable to exotic pests as a result of the economic impact.

n. Disease or Pandemic Outbreak

- 1) History/Background: Pasco County does not have a history of disease outbreaks.
- 2) Probability: The probability for a disease outbreak is low. However, seasonal residents, migrant populations, and the number of uninsured residents do present a chance for infectious diseases to rapidly spread.
- 3) Vulnerability: Pasco County is moderately vulnerable due to the large annual influx of seasonal residents and tourists. Additionally, Pasco County has large agricultural interests that may be vulnerable to animal-borne diseases such as Mad Cow and Foot and Mouth Disease. Rapid spread of these diseases would result in significant number of people being affected and high economic costs involved with replacement costs for livestock. All areas of the county are considered vulnerable to a disease outbreak.

2. Technological

a. Hazardous Materials Incidents

- 1) History/Background: In 2008, 60 facilities in Pasco County (per Emergency Management's Cameo System) reported quantities of extremely hazardous substances under Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986. The annual Hazards Analysis required under EPCRA, Sara Title III identifies all fixed facilities that are vulnerable to hazardous materials incidents. The heavy volume of truck traffic moving through the County in populated areas increases the vulnerability to transportation accidents involving hazardous materials. In addition, two railroad lines pass through the County transporting unknown amounts of hazardous materials. The majority of incidents involve petroleum-based products. The Office of Emergency Management Incident Database reflects an annual average of 93 hazardous material spills or releases reported from 1995 through 2008. The

annual report required under EPCRA, Sara Title III identifies all fixed facilities that are vulnerable to hazardous materials incidents.

- 2) Probability: Spills or releases of hazardous materials during transport are common, and the probability of a hazardous materials transportation incident is high. The event will most likely occur during a vehicle accident along one of Pasco County's major transportation routes. The most frequent incidents occur along the County's east-west routes, S.R. 52, S.R. 54, and the north-south routes, U.S. Hwy 41, U.S. Hwy 301, U.S. Hwy 98, U.S. Hwy 19, the Suncoast Expressway and I-75. In addition, two railroad lines pass through the County transporting unknown amounts of hazardous materials, with the last train derailment occurring in 1995. The probability of a release or spill is high. Chlorine is the most abundant and extremely hazardous substance stored in Pasco County. In addition, the incidence of an accidental spill of any hazardous material during transport is highly probable.
- 3) Vulnerability: The majority of the releases at a site are small, affecting only the building of origin and a relatively small number of people. Economic costs are usually low. Vulnerability to the release or spill of a hazardous material is moderate, and depends upon the amount and type of material spilled or released, and the location of the incident. Pasco County Office of Emergency Management staff and the Hazardous Incident Team (HIT) are trained and capable of minimizing the effects of spills and/or releases of most hazardous materials. A map of 5-mile vulnerability zones for each of the 302 facilities located in Appendix D.

b. Coastal/River Oil Spills

- 1) History/Background: Pasco County has not experienced a coastal/river oil spill of any great magnitude, to date. The Florida Department of Environmental Protection reported that 90% of the occurrences were a minimum of 25 gallons or less and the associated cost was \$150 per incident. These occurrences usually involve recreational vessels. The primary area for an accident is within the Gulf of Mexico and any location where a land shipment might spill into a stream or river. The consequences of an oil spill would be based on the amount released, location, wave action, and weather. A sizable oil spill on the Gulf of Mexico coming ashore on the County's coastline would be devastating to the abundant near-shore biological marine resources, fishing industry and local tourist industry.
- 2) Probability: The probability of a minor incident is at least one spill a year, which makes the probability high. However, the risk of a major spill is relatively low.
- 3) Vulnerability: While the probability of occurrence is high, the population impacted is relatively low and the economic costs are low, therefore the level

of vulnerability is low. Pasco County's west coast borders the Gulf of Mexico. Therefore, the western coast is vulnerable to coastal oil spills. It is difficult to define areas of the County that are vulnerable to river oil spills because the County has 4 rivers within County boundaries and each river has many tributaries.

c. Nuclear Power Plant Incidents

- 1) History/Background: The Florida Power Corporation operates the Crystal River Nuclear Power Facility approximately seven miles northwest of Crystal River in Citrus County. The Northwest and North Central portion of Pasco County lie within the 50-mile Emergency Planning Zone (EPZ) of the facility, which results in this area being monitored in the event of an incident. Crystal River Nuclear Power Facility and Radiological Health Services have the capability and resources to determine the presence or absence of key particles and radionuclides. However, a major failure at the site could make the County vulnerable to some of the long-term ingestion effects of ionizing radiation. There is no reported history of any incidents at this facility.
- 2) Probability: While the probability of an incident is very low, a portion of the County does lie in the impact area of an incident.
- 3) Vulnerability: Although there would be a significant number of residents affected by an incident, the probability of occurrence is low, and the economic cost is low, therefore the level of vulnerability is very low. The majority of Pasco County lies within the 50-mile ingestion zone for the nuclear power plant.

d. General Power Failure

- 1) History/Background: Pasco County is part of the national electrical grid system, whereby power companies across the United States work together to keep power flowing through the grid to all areas of the country. If a particular portion of the country should experience problems in delivering power to customers, the national power grid steps up and supplies power to the area temporarily experiencing problems. However, there have been instances in the past where the failsafe aspects of the grid system have not functioned properly. This has resulted in significant portions of the grid failing and being taken down by relatively small problems in localized areas. The problems back up into the grid, are not trapped by the failsafe systems, and cause sudden and unexpected loss of power. The loss of power can impact millions of people and can last from a few hours to several days until power is restored.

Pasco County experienced a general power failure on February 26, 2008 resulting from the Turkey Point Nuclear Power Plant #1 and #2 going offline. An equipment malfunction in a substation near Miami disabled two power

distribution lines between Miami and Daytona Beach, and in response, Florida Power & Light's Turkey Point nuclear plant south of Miami stopped operating around 1 p.m. Most residents lost power for less than two hours.

- 2) Probability: The probability of a general power loss similar to those experienced in the Northeast is low. In addition, Pasco County has only experienced one power failure since 1994 due to equipment failure. The overall probability of occurrence is low.
- 3) Vulnerability: At risk areas of the County's population are extremely vulnerable to sudden and unexpected loss of power. Since the providing of many critical resources and services are dependent on electrical power, the sudden and unexpected loss of power would expose many citizens to health and safety issues. Some of the impacts from a general power loss would include: 1) inability to deliver water due to non- functioning electrical pumps, 2) inability to process wastewater in treatment facilities, 3) inability to pump gasoline, and 4) lack of refrigeration and air conditioning to protect food and people in heat indexes that can reach 110 or higher during the summer months and 5) potential loss of life to the electric dependent, medically frail residents. While the probability of occurrence is low, the economic cost would be high in a worst-case scenario. Therefore, the vulnerability would be high. All areas of the County are considered vulnerable to a power failure.

3. Man-Made

a. Air Crash Incidents

- 1) History/Background: Pasco County falls within the Tampa Terminal Radar Area (Class B-Airspace) for Tampa International Airport. However, there has not been a crash of a commercial aircraft in Pasco County. Historically, the air crash incidents have occurred at the public and private airports located in Pasco County, with most of the incidents occurring during landing or take-off. Pasco County has two public airports, Zephyrhills Municipal Airport and Tampa North Aeropark, and two private airports, Hidden Lake Estates and Pilot Country Estates Airport. Pasco County has recorded 64 incidents of airplane crashes between 1995 and 2008. A majority of the incidents involved small fixed wing and ultra light planes.
- 2) Probability: The probability of air crashes is high with two to three incidents occurring each year.
- 3) Vulnerability: The number of people impacted by an air crash is usually two: the pilot and passenger. The economic impact is relatively low, with damage to the aircraft and possible injuries to the pilot and passenger. Therefore, the level of vulnerability is deemed to be low. The entire county is considered

vulnerable to air crash incidents because the County is within the airspace for Tampa International Airport. However, air crashes typically occur at the local airports, making the City of Zephyrhills and the areas surrounding the other airports in Land O Lakes, Hudson, and Port Richey most vulnerable.

b. Major Structural Fires

- 1) History/background: The County has a number of high-rise structures, congregate living facilities, and apartment/condominium complexes with more in the planning phase. These structures pose the most significant risk for major structure fires. Fire Service pre-planning and state codes minimize the threat to life and property for structures of this type.
- 2) Probability: As the density of population increases, the land available for development decreases. The decrease in available land tends to make multi-family and high-rise structures more desirable to developers. The US 19 corridor also has a significant number of vacant, abandoned and commercial structures which are vulnerable to fires, both accidental and deliberate. Presently, the probability is low for a major structural fire.
- 3) Vulnerability: The vulnerability is steadily increasing with the influx of new residents to the County. At present the most vulnerable properties are residential high-rise dwellings. The majority of the high-rise units specifically target the elderly population as potential residents, which makes combating fires and evacuations more difficult to accomplish. A significant number of people can be affected by a high rise fire and moderate economic costs are incurred in fighting a fire and repairing/rebuilding a damaged structure. The County is moderately vulnerable to major structure fires.

A major structural fire is any fire that requires multiple engines to respond, which could include one large building or several structures in the same area, for example, a fire that starts in one home and spreads to neighboring homes. Major structural fires could occur anywhere in the County; however, areas with large residential or commercial structures are at a higher risk. The majority of these types of structures are clustered on the West coast of Pasco County, creating the largest risk for a major structural fire. Future land use shows that the risk in Central and Eastern Pasco County will increase, as large residential and commercial structures are proposed or currently being developed in these areas.

c. Nuclear Attack

- 1) History/Background: Roughly 60% of the County is in the 50-mile ingestion zone, which places it in the high-risk area for an attack on the Nuclear Power

Plant in Crystal River. The remainder of the County is a host area for Pinellas and Hillsborough Counties. There is no history of nuclear attack in the Tampa Bay Area. In 1962, the Tampa Bay Area was placed on alert due to the Cuban Missile Crisis which lasted only a few days.

- 2) Probability: Pasco County has a very low probability of nuclear attack. There are no critical defense industries, financial headquarters or, nuclear power plants within the County.
- 3) Vulnerability: The County has a very low vulnerability to a direct nuclear attack. The most probable targets lie in Pinellas, Hillsborough, and Citrus Counties. If such an attack would occur within Pasco County, the cost in lives and property would be extremely high. All of Pasco County is considered vulnerable to the impact of a nuclear attack because of the targets in surrounding counties.

d. Mass Immigration

- 1) History/Background: Pasco County has no history of mass immigrations. Historically, flotillas and rafts have washed up on Florida's eastern coastline, not in the Gulf of Mexico. The few rafts that have washed ashore have been along the southern Gulf coast.
- 2) Probability: The probability of mass immigration is very low. Pasco County does not have a significant minority population. Immigrating populations have historically selected areas with large population concentrations to provide a support network.
- 3) Vulnerability: Pasco County is considered to have a very low vulnerability to mass immigration. The anticipation is that an insignificant number of people would be affected and costs associated with a mass immigration would be moderate. The County is not considered vulnerable to mass immigration.

e. Special Events

- 1) History/Background: Pasco County is home to several special events, which require coordinated incident planning activities. Plans include actual event operations in addition to contingency plans in case of emergency. Pasco County special events currently include: Pasco County Fair, Livestock Rock Festival in Zephyrhills; NORML Festival in Zephyrhills; Dade City Christmas Show; Church Street Christmas; San Antonio Rattlesnake Festival and Kumquat Festival; West Pasco Chasco Fiesta, etc. The number and size of special events continue to increase.

- 2) Probability: The probability of Pasco County hosting special events is high. These events generate income for the municipalities, as well as private interests. With the interstate system constantly expanding, there is easy access to the County from other areas.
- 3) Vulnerability: The vulnerability level of a special event varies with the size of the event, the location, and the venue. For purposes of this document, special event will be defined as a large outdoor gathering. Special events encompass all areas of public safety, i.e. traffic, access, security, public health, fire safety, and weather. Pasco County averages 8-10 special events each year. The number of people affected by a special event is high. Economic and response costs are moderate and the vulnerability is moderate.

f. Terrorism

- 1) History/Background: Pasco County has not been threatened or impacted by any major international terrorist groups. However, it is possible that domestic terrorist groups could be a threat. Pasco County is home to many militia groups and fringe organizations. Pasco County obtained a “Jurisdictional Risk Rating” of 14, from the State of Florida Terrorism Assessment conducted in the beginning of 2001. In the months immediately following September 11, 2001, the Hazardous Incident Team responded to more than 252 incidents of suspicious substances in government buildings, businesses, and private residences. Although, the investigations did not produce any hazardous substances, the public fear of a terrorist event occurring demanded a proactive protective response from local government.
- 2) Probability: The probability of a deliberate terrorist event occurring in Pasco County is very low. However, due to the number of militia groups and fringe organizations with ties to Pasco County, the probability of an accidental or unplanned event occurring raises the level to moderate
- 3) Vulnerability: A large percentage of land within central and northern Pasco County is sparsely developed, either wetlands or heavily forested, affording militia and fringe groups a relatively obscure location to plan, store materials, and practice any activities. The number of people affected by terrorism is usually significant, since one of the objectives of terrorists is to create as much human suffering and property damage as possible. The costs associated with terrorism are high. The ability of militia and fringe organizations to gather and quickly relocate, if necessary, places the County at a moderate vulnerability level. All critical infrastructure or key resource locations are vulnerable to terrorism.

Figure 2
HAZARD IDENTIFICATION TABLE

Hazard	How Identified	Why Identified
Earthquake	<ul style="list-style-type: none"> Review of state geological records 	<ul style="list-style-type: none"> The County has never experienced an earthquake Citizen concerns regarding sinkhole and river meandering resulting from potential seismic activity in northern and panhandle portions of state
Tsunami	<ul style="list-style-type: none"> Proximity of County to Gulf of Mexico and fact tsunamis are triggered by seismic activity within large bodies of water 	<ul style="list-style-type: none"> The county has never experienced a tsunami Concerns of residents that coastal portions would be inundated and economic cost would be high if a Tsunamis occurred
Coastal and Riverine Erosion	<ul style="list-style-type: none"> Review of FIRMs Input from County Planning Office Public input 	<ul style="list-style-type: none"> Related to tropical storms and hurricane activity Related to river flooding Concerns of residents along coast and along rivers that property would be lost through erosion
Sinkholes/Landslides (grouped because both are a movement of earth)	<ul style="list-style-type: none"> Incidents reported to Pasco County Office of Emergency Management Southwest Water Management studies concerning sinkholes Propensity of West Central Florida to experience sinkhole activity Permit applications for repair through Central Permitting Offices 	<ul style="list-style-type: none"> Heavy rains or drought trigger increased sinkhole activity Physiography of West Coast of Pasco County makes it particularly prone to sinkhole activity Concerns of residents regarding sinkhole activity impacting their property Hills in Eastern Pasco have the potential for landslides

Hurricanes and Tropical Storms	<ul style="list-style-type: none"> • Review of past disaster declarations • Input from residents • Risk Assessments 	<ul style="list-style-type: none"> • The County is subjected to a hurricane/coastal storm threat and/or impact at least once per year • The impacts of hurricanes and tropical storms have caused damage (personal and property), flooding and evacuation situations
Severe Storms/Tornados (grouped because tornados occur during severe storms)	<ul style="list-style-type: none"> • National Weather Service • Pasco County Emergency Management 	<ul style="list-style-type: none"> • Florida has the most tornados per square mile in the United States • Tornados typically occur during severe storms
Flooding (includes Coastal Flooding)	<ul style="list-style-type: none"> • Review of FIRMS • Input from County Planning Office 	<ul style="list-style-type: none"> • Associated with the effects of hurricanes and thunderstorms which threaten the County annually • The County contains wetlands and several rivers and streams, and western boundary of County is alongside the Gulf of Mexico
Wildfires	<ul style="list-style-type: none"> • Review of past wildfire incidents by County Fire Marshal and the Division of Forestry 	<ul style="list-style-type: none"> • The Florida Division of Forestry has identified several high risk wildfire areas in the county • Pasco County has significant wildlands within its boundaries
Drought/Heat Wave (grouped because heat waves can intensify drought conditions)	<ul style="list-style-type: none"> • Review of past incidents reported to Pasco County Office of Emergency Management 	<ul style="list-style-type: none"> • Recent years of drought have resulted in hardships for agricultural interests and conservation/public lands in the County
Winter Storms/Freezes (grouped because both impact agriculture)	<ul style="list-style-type: none"> • Review of past incidents reported to Pasco County Office of Emergency Management 	<ul style="list-style-type: none"> • Impact on agriculture industry in the County • Need to open shelters for at risk people
Lightning Strikes	<ul style="list-style-type: none"> • Review of past incidents reported to National Weather Service 	<ul style="list-style-type: none"> • Florida has an unusually high incidence of lightning strikes

Exotic Pests	<ul style="list-style-type: none"> • Past incidents reported of Mediterranean Fruit Fly, Citrus Canker, etc. 	<ul style="list-style-type: none"> • County has significant agricultural base and profusion of fruit trees • Recovery from infestations takes years to overcome and financial impacts are devastating to growers
Disease or Pandemic Outburst	<ul style="list-style-type: none"> • Health Department records concerning incidents or potential incidents of West Nile Virus, SARS, etc. 	<ul style="list-style-type: none"> • Pasco County has large annual influxes of seasonal residents and tourists, as well as migrant workers which can introduce diseases to the County which can spread rapidly • Concern of public regarding these types of diseases
Hazardous Materials Spills	<ul style="list-style-type: none"> • Incidents reported to the Pasco County Office of Emergency Management 	<ul style="list-style-type: none"> • Large amount of truck traffic moving through County in populated areas increases vulnerability to accidents involving hazardous materials • Two railroad lines pass through the County transporting unknown amounts of hazardous materials
Coastal/River Oil Spills	<ul style="list-style-type: none"> • Incidents reported to the Pasco County Office of Emergency Management and Coast Guard 	<ul style="list-style-type: none"> • Sizable spill in Gulf of Mexico coming ashore could be devastating to near-shore biological marine resources, fishing industry and the local tourist industry • Land shipments spilling into a stream or river could have adverse impacts on drinking water sources
Nuclear Power Plant Incidents	<ul style="list-style-type: none"> • Public input • Crystal River Nuclear Power Facility located to the north in Citrus County 	<ul style="list-style-type: none"> • The Northwest and North Central portions of Pasco County lie within the 50-mile Emergency Planning Zone of the facility

Dam Levee Failures	<ul style="list-style-type: none"> Review of Geiger Pond/Geiger Dam Embankment Failure Assessment and Land O' Lakes Reservoir Emergency Plan 	<ul style="list-style-type: none"> Pasco County has one structure that is considered a dam but has never experienced a failure Pasco County has one levee, which has not experienced a failure
Air Crash Incidents	<ul style="list-style-type: none"> Incidents reported to Pasco County Office of Emergency Management 	<ul style="list-style-type: none"> Pasco County experiences an average of 2 to 3 private airplane crashes per year
Major Structural Fires	<ul style="list-style-type: none"> Incidents reported to Pasco County Office of Emergency Management 	<ul style="list-style-type: none"> There are a number of high-rise structures already built in Pasco County with more in the planning stage With steady influx of new residents to the County, and many high rises targeting elderly as residents, combating fires and evacuations are more difficult to accomplish
Nuclear Attack	<ul style="list-style-type: none"> Proximity of south-central Pasco County to the City of Tampa and McDill Air Force Base and Central Command Headquarters 	<ul style="list-style-type: none"> Nuclear bomb attack directed at Tampa or McDill Air Force Base could result in the blast shock waves and radiation impacting south-central Pasco County
Mass Immigration	<ul style="list-style-type: none"> Mass immigration has not been, and is not expected to be, a hazard for Pasco County 	<ul style="list-style-type: none"> No history of mass immigration Historically, flotillas and rafts have washed up on Florida's eastern coastline
Special Events	<ul style="list-style-type: none"> The number of Special events held in Pasco County each year Public input 	<ul style="list-style-type: none"> Concerns of public about incidents occurring at special events
Terrorism	<ul style="list-style-type: none"> Public Input Terrorism incidents that have occurred in other parts of the country 	<ul style="list-style-type: none"> Nuclear power plant located north of the county Heightened sense of security since September 2001

D. HAZARD MITIGATION MAPS

The identification of the potential hazards to Pasco County and the associated type of impact to people and property are the basis of the Hazard Mitigation Map Series. The development of the Mitigation Map Series involved the identification and mapping of the hazards impacting Pasco County, Flood Prone Areas, Repetitive Property Loss Areas, and Critical Facilities.

1. Pasco County Hazard Maps

Appendix B considers the hazards that have historically impacted Pasco County and those that could potentially have a damaging affect on the County. The hazards include the threat of hurricanes, flooding, wildfires, hazardous materials incidents, reported tornado touchdowns, sinkholes, lightning strike areas, potential area for coastal/river oil spills, agricultural areas subject to drought and freezes, tsunamis, coastal and riverine erosion, landslides, coastal storms, exotic pests, disease or pandemic outburst, dam levee failures, air crash incidents, major structural fires, nuclear attack, mass immigration, special events, coastal river oil spills, nuclear power plant incidents and terrorism. Some of these hazards could not be mapped because the at-risk areas cover the entire county. In addition, some hazards cannot be mitigated (e.g. lightning strikes), and therefore have not been mapped.

The Hurricane Evacuation Levels were revised in March 2006, and show those areas vulnerable to storm surge inundation. The revision of these maps was based upon data provided from the Sea, Lake, and Overland Surges from Hurricanes (SLOSH) model. The floodplains determined by the National Flood Insurance Program have also been mapped. In addition, floodprone areas and roadways have been mapped. The National Weather Service in Ruskin provided some information on tornado touchdown areas and lightning strike areas. The Drainage Basin map is provided as a reference for the location of the Stormwater Projects identified on the Hazard Mitigation Project/Program Lists.

The airports located in Pasco County have been mapped and are shown in the critical facilities maps. The Crystal River Nuclear Power Plant Emergency Planning Zone is also shown with the critical facilities.

2. Repetitive Loss Area (RLA) Maps and Mitigation Efforts

Appendix C shows the areas of the County (including the cities of Port Richey and New Port Richey) in which properties that have been designated as repetitive loss properties are located. Repetitive Loss Properties are properties in which two or more flood insurance claims of at least \$1,000 have been filed with the National Flood Insurance Program (NFIP) over a 10-year period since 1978. These areas are identified by Section-Township-Range.

The information regarding repetitive loss properties was obtained through FEMA. The properties have been located on the Property Appraiser's parcel maps with the flood zones delineated and the Southwest Florida Water Management contours overlaid. The repetitive loss areas were then defined by using the elevation of the repetitive loss properties as a boundary. A County map is provided for reference.

Pasco County determined that there are sixteen (16) repetitive loss areas that exist in the County with a total of four hundred and fifty-eight repetitive loss properties within these areas. A narrative describing each of these repetitive loss areas, including the number of repetitive loss properties in each area, follows the RLA Maps in Appendix C.

Following the narrative of the repetitive loss areas is a listing of RLA and efforts either currently underway or planned to address these areas. Local jurisdictions involved in addressing Repetitive Loss Areas are noted in this listing. Additional information concerning these projects, including current status and future activity, can be found in Appendix E (Hazard Mitigation Project/Program Lists).

The primary way Pasco County and the local jurisdictions work to mitigate the Repetitive Loss Area issue both today and in the future is to elevate structures. The City of Port Richey utilizes the option of elevation to mitigate risk. In addition, public awareness activities are ongoing currently, and will continue in the future, to make property owners more aware of NFIP. Buyout of RLA properties and returning the properties to public lands is an option the County has used in the past and will consider in the future on a case by case basis.

All eligible jurisdictions participating in the 2009 LMS Update participate in the NFIP. In addition to Pasco County, the local jurisdictions participating are Dade City, New Port Richey, Port Richey, Saint Leo, San Antonio, and Zephyrhills. The Southwest Florida Water Management District (SWFMD) has completed the LIDAR (Light Detection and Ranging) mapping of the entire County utilizing one foot contours. The SWFMD, in co-operation with Pasco County, is in the final stages of a five year and nearly \$10,000,000 effort to create new digital flood maps for the entire County. Preliminary maps will be available in September of 2009 with final acceptance anticipated in 2010.

Pasco County has been included in the Community Rating System since 1991. Recently, the County achieved a Class 7 rating. As a Category C Repetitive Loss Community, it is fulfilling its responsibilities by:

1. Establishing committees in each jurisdiction to review the CRS requirements.
2. Defining, reviewing and describing its repetitive loss areas and problems.
3. Preparing a map of the repetitive loss areas.

4. Undertaking an annual outreach project for the residents of the repetitive loss areas. This includes mailings, brochures, and meetings to provide information regarding NFIP benefits.
5. Including a plan to address the repetitive loss areas in the Local Mitigation Strategy.
6. Maintaining a website with Floodplain Management information and links to additional websites (NFIP, FEMA, etc.).
7. Development of the Environmental Lands Acquisition and Management Program (ELAMP) which acquires lands and conservation easements, many of which are in floodplains.

Pasco County has established a Community Rating System committee comprised of representatives from Development Review, Growth Management, Metropolitan Planning Organization, Stormwater Management, Engineering Services, Public Works, Utilities, and Emergency Management. The committee meets annually, at a minimum, to review actions taken to ensure continued compliance with the NFIP. The committee also reviews any new requirements or programs which are included in the National Flood Insurance Program. Each of the participating jurisdictions developed similar internal processes, as well as coordinating efforts with the County.

3. Critical Facility Maps

Appendix D includes maps of the facilities identified as critical facilities that need to be operational within 72 hours in order to make an area habitable after a disaster has struck. These public or private facilities were identified as critical facilities because they provide essential products and services to the general public, are otherwise necessary to preserve the welfare and quality of life in the County, or fulfill important public safety, emergency response, and/or disaster recovery functions.

- a. Active Landfill Facilities
- b. Airports (Public and Private)
- c. American Red Cross Facilities (East and West Pasco County)
- d. Animal Related Facilities (Facilities serving as Emergency Shelters)
- e. Clinics and Dialysis Centers (Clinics and Ambulatory Surgical Centers)
- f. Communication Towers (Towers and Switching Facilities)
- g. Correctional Facilities
- h. Educational Facilities
- i. Electrical Facilities (Substations, Power Plants, Staging Areas, and Operations Control Centers)
- j. Emergency Operations Centers (East and West Pasco County)
- k. Emergency Shelters
- l. Fire Protection Stations
- m. Funeral Homes (assisting in an emergency)
- n. Hospitals

- o. Law Enforcement Agencies
- p. Major Wells
- q. National Guard Armory
- r. Nursing/Convalescent Homes
- s. Potable Water (wells, production plants, purification plants and distribution plants)
- t. Public Buildings
- u. Regional Operation Areas and Staging Areas
- v. Salvation Army Sites
- w. Sewage Treatment Facilities
- x. Transportation Facilities (includes Hurricane Evacuation Routes)
- y. Public Health Facilities

The Pasco County Planning Department used GIS and other modeling tools to map the County's critical facilities and determine which are most likely to be affected by hazards.

E. VULNERABILITY ASSESSMENT

The Vulnerability Assessment involves the analysis and identification of the population, property, and resources in the County that are vulnerable to the identified hazards. The assessment provides a basis for identification of the hazard mitigation initiatives needed, assignment of a priority for implementation of each initiative, justification for implementation, and estimation of the potential dollar losses to vulnerable structures by the identified hazards.

1. Vulnerability Assessment Table

The assessment integrated the hazards threatening the County and the impacts of these events/incidents into a matrix or Vulnerability Assessment Table (Figure 3). The time period from 1/94 through 10/08 was used to document the reported events/incidents that have occurred for each hazard identified. Data was obtained from the Pasco County Office of Emergency Management, Florida Department of Agriculture and Consumer Services, Division of Forestry, National Weather Service, Florida Department of Environmental Protection, Florida Department of Transportation, the Southwest Florida Water Management District, Pasco County Fire Rescue, Fire Inspector, and Pasco County Tourism Council. The Probability of Occurrence was calculated based upon the reported number of events/incidents for a one-year period, either High, Moderate, Low or Very Low. The size of the population affected was derived from the Hazards Maps, Pasco County Property Appraiser and the Pasco County Office of Emergency Management. If the incidents were isolated impacting a small population (<50), then the response was No, if >50 were impacted the response was Yes. Data regarding the Primary Costs (economic) and Secondary Costs (response) was obtained from the Pasco County Property Appraiser, and the various local and state agencies providing information for the development of the Local Mitigation Strategy. A Level of Vulnerability was assessed

for each type of hazard based upon all the data collected and the scoring of each criterion. These levels were High, Moderate, Low or Very Low. The Vulnerability Assessment Table was used in the Project/Program Prioritization Worksheet for development of the Mitigation Initiatives.

2. Hazard Mitigation Project/Program Prioritization Worksheet

The key objective of the Vulnerability Assessment process was to assist the Hazard Mitigation Committee in identifying and justifying the structural and non-structural mitigation initiatives that would be proposed for implementation through the Local Mitigation Strategy. The potential mitigation initiatives address: 1) the community-wide vulnerabilities that pose the greatest concern to the County and local jurisdictions (hurricane threats and impact and tropical storms, coastal/riverine/localized flooding), 2) the areas and population that are most at risk for impact by these threats, 3) development of plans and studies to assist in the correction of these problems, and 4) the retrofit of priority 1 and 2 critical facilities; 5) description and accompanying map of land uses and development trends within the jurisdiction so that mitigation options can be considered in future land use decisions.

The Vulnerability Assessment was a critical process in the identification of the mitigation initiatives and the prioritization of those initiatives. The assessment integrated several components of the Local Mitigation Strategy, such as the mapping of the hazards, repetitive loss properties, and the critical facilities; the impacts of these hazards and costs associated with these events/incidents, and the areas of concern within the community.

The Vulnerability Assessment Table, Figure 3, was used to prioritize the hazards that would become the primary concerns in the development of the Mitigation Initiatives, which became part of the Project/Program Prioritization Criteria and Worksheet in Figure 4. An assessment of the hazards and the impacts to the critical facilities was done. Based upon this assessment, there are retrofit projects identified on the project/program list for the municipalities and the County that are derived from the analysis of these facilities.

Figure 3

Vulnerability Assessment Table

(1994 – 2008)

Vulnerability to Hazard by Community

Type Of Hazard	Reported Events 1994-2008	Probability of Occurrence	Significant #r of People Affected	Primary Costs (Economic)	Secondary Costs (Response)	Level of Vulnerability	Pasco County	Dade City	New Port Richey	Port Richey	San Antonio	St. Leo	Zephyrhills
Manmade Hazards													
Air Crashes	64	High	No	Low	Low	Low	Y	Y	Y	Y	Y	Y	Y
Major Structural Fires	14	Low	Yes	Moderate	Moderate	Moderate	Y	Y	Y	Y	Y	Y	Y
Mass Immigration	0	Very Low	No	Moderate	Moderate	Very Low	Y	Y	Y	Y	Y	Y	Y
Nuclear Attack	0	Very Low	Yes	V High	V High	Very Low	Y	Y	Y	Y	Y	Y	Y
Special Events	160	High	Yes	Moderate	Moderate	Moderate	Y	Y	Y	Y	Y	Y	Y
Terrorism	0	Moderate	Yes	High	V High	Moderate	Y	Y	Y	Y	Y	Y	Y
Natural Hazards													
Coastal Flooding	20	High	Yes	High	Moderate	High	Y	N	N	Y	N	N	N
Coastal/River Erosion	0	Moderate	Yes	High	Moderate	Moderate	Y	N	Y	Y	N	N	N
Dam/Levee Failure	N/A	N/A	N/A	N/A	N/A	N/A	N	N	N	N	N	N	N
Disease (Pandemic) Attack	0	Low	Yes	High	High	Moderate	Y	Y	Y	Y	Y	Y	Y
Drought/Heat Wave	0	High	No	Moderate	Moderate	Low	Y	Y	Y	Y	Y	Y	Y
Earthquakes	0	Very Low	Yes	V High	V High	Very Low	Y	Y	Y	Y	Y	Y	Y
Exotic Pests	0	Moderate	Yes	High	Moderate	Moderate	Y	Y	Y	Y	Y	Y	Y
Floods	37	High	Yes	High	Moderate	High	Y	Y	Y	Y	Y	Y	Y
Hurricanes/Tropical Storms	16	Moderate	Yes	High	High	High	Y	Y	Y	Y	Y	Y	Y
Landslides	0	Very Low	No	Very Low	Very Low	Very Low	N	Y	N	N	Y	Y	N
Lightning Strikes	80	High	No	Low	Low	Moderate	Y	Y	Y	Y	Y	Y	Y
Severe Storm	42	High	Yes	Moderate	Moderate	Moderate	Y	Y	Y	Y	Y	Y	Y
Sinkholes	2291	High	No	Low	Low	Moderate	Y	Y	Y	Y	Y	Y	Y

Tornado	7	Low	Yes	Moderate	Low	Low	Y	Y	Y	Y	Y	Y	Y
Tsunamis	0	Very Low	Yes	V High	V High	Very Low	Y	N	Y	Y	N	N	N
Wildfires	348	High	Yes	High	Moderate	High	Y	Y	Y	Y	Y	Y	Y
Winter Storm Freezes	67	High	Yes	Moderate	Low	Low	Y	Y	Y	Y	Y	Y	Y
Technological Hazards													
Coastal/River Oil Spills	14	High	No	Low	Low	Low	Y	N	Y	Y	N	N	N
General Power Failure	1	Low	Yes	High	Moderate	Moderate	Y	Y	Y	Y	Y	Y	Y
Hazardous Materials	1206	High	No	Low	Moderate	Moderate	Y	Y	Y	Y	Y	Y	Y
Nuclear Power Plant	0	Very Low	Yes	Low	V High	Very Low	Y	N	Y	Y	N	N	N

Type of Hazard: Disaster events and incidents that have occurred or may occur in Pasco County.

Reported Events/Incidents: Data obtained from the Pasco County Office of Emergency Management, Florida Department of Agriculture and Consumer Services - Division of Forestry, National Weather Service, Florida Department of Environmental Protection, Southwest Florida Water Management District, City of Dade City, City of New Port Richey, City of Port Richey, Town of St. Leo, City of San Antonio and City of Zephyrhills.

Probability of Occurrence: Probability derived from the reported number of events/incidents for a one-year period. Degree of probability described as follows: a) 1 = High, b) .1 = Moderate, c) .01 = Low, and d) .001 = Very Low.

Significant Number of People Affected: Information derived from All Hazards Maps, Pasco County Property Appraiser and Pasco County Office of Emergency Management.

Primary Costs (Economic): Information derived from All Hazards Maps, Pasco County Property Appraiser and Pasco County Office of Emergency Management.

Secondary Costs (Response): Information obtained from Pasco County Office of Emergency Management, Florida Department of Agriculture and Consumer Services - Division of Forestry, National Weather Service, Florida Department of Environmental Protection and Southwest Florida Water Management District.

Level of Vulnerability: Assessment of High, Moderate, Low and Very Low Levels of Vulnerability based upon the best available data.

Vulnerability to Hazard by Community: Yes indicates the community is vulnerable to the hazard, No indicates the community is not.

Figure 4

Hazard Mitigation Project/Program Prioritization Worksheet

The New Project Submission Worksheet will be utilized for identifying new projects. First, the project or program will be described and categorized by type. The initial submission will determine the extent to which the project will enhance the sustainability of the county/city/community.

Applicant Information:

Name:

Agency:

Address:

Telephone:

Project/Program Information:

Project/Program Name:

Project/Program Description:

Project/Program Category (Select One):

Project Category:

- Capital Projects (CIP)
- Critical Facilities
- Flood Proofing
- Infrastructure
- Property Acquisition
- Restoration of Natural Features
- Retrofitting of Structures
- Stormwater Management

Program Category:

- Stormwater Management
- Community Involvement
- Feasibility Studies
- Management Plan
- Development/Modification
- Public Education
- Public/Private Partnerships
- Regulatory Initiatives

Goals and Objectives:

List the goals and objectives supported by the project/program. Please list each Goal and Objective separately and include the number for each Goal/Objective. You do not need to re-type the entire Goal or Objective, but please list the number.

Goal:

Objective:

Objective:

Objective:

Goal:

Objective:

Objective:

Objective:

Project Type:

Please identify the type of action proposed. Check all that apply.

- Prevention – Government administrative or regulatory actions or processes that influence the way land and buildings are developed and built. These actions also include public activities to reduce hazard losses. Examples include planning and zoning, building codes, capital improvement programs, open space preservation, and storm water management regulations.
- Property Protection – Actions that involve the modification of existing buildings or infrastructure to protect them from a hazard, or removal from the hazard area. Examples include acquisition, elevation, relocation, structural retrofits, flood proofing, storm shutters, and shatter-resistant glass.
- Public Education and Awareness – Actions to inform and educate citizens, elected officials, and property owners about potential risks from hazards and potential ways to mitigate them. Such actions include outreach projects, health immunization and prophylaxis, real estate disclosure, hazard information centers, and school-age and adult education programs.
- Natural Resource Protection – Actions that, in addition to minimizing hazard losses also preserve or restore the functions of natural systems. These actions include sediment and erosion control, stream corridor restoration, watershed management, forest and vegetation management, and wetland restoration and preservation.
- Structural Projects – Actions that involve the construction of structures to reduce the impact of a hazard. Such structures include storm water controls (e.g. culverts), floodwalls, seawalls, retaining walls, and safe rooms.

Level of Vulnerability:

Please identify the Hazard type that the action addresses. Check the box for the level of vulnerability. Refer to the Vulnerability Assessment Table for the Level of Vulnerability (LMS Figure 3, also on disk).

Hazard Type:

- High Level of Vulnerability
- Moderate Level of Vulnerability
- Low Level of Vulnerability
- No Vulnerability Identified

Timeliness:

The expected timeframe for completion and implementation of a project or program (upon receipt of funding). Please check the appropriate box.

- Less than one year to complete or implement.
- More than one year to complete or implement.

Matching Funds Availability:

Will the Local Recipient provide matching funds for the Project/Program? If so, please check the box for the amount of matching funds and identify the source.

- Local Recipient will provide 50% Match.
- Local Recipient will provide 25% Match.
- Local Recipient will provide 12 ½ % Match.
- No Match will be provided.

Funding Source:

3. Estimating Potential Dollar Losses

Describing vulnerability in terms of dollar losses provides the community and the State with a common framework with which to measure the effects of hazards on assets. This method of expressing expected losses will provide a relative ranking of risk to different elements of the planning area from different hazards. However, the estimated dollar losses obtained through this process are extremely rough and should not be used for other purposes.

The basic process for determining loss estimates requires initially assessing the level of damage from a hazard event, both as a percentage of the asset's structural and content replacement value, and as a loss of function. Next, the level of damage percentage needs to be multiplied by the value of the structure, contents and use. In this manner, a comprehensive loss estimation can be developed which includes the risk to a structure itself, as well as the contents and functions of the structure.

Adhering to this approach for determining dollar loss estimates from hazards, the following loss models outline potential losses in Pasco County and the local jurisdictions of the County: HAZUS-MH, MEMPHIS/ELVIS, and recent historical loss data. Additional documentation is available in Appendix H, which includes damage estimates for the municipalities. The data in this section does not include information regarding each hazard's impact to vulnerable structures because the MEMPHIS/ELVIS models did not provide such data. HAZUS provides information on vulnerable structures, however, the databases do not include the most recent information, making the models extremely inaccurate. Pasco County Office of Emergency Management is in the process sending a staff member for HAZUS training in order to update the databases in HAZUS and run more accurate models.

a. Exposure and Actual Loss

Damage Estimate Modeling Software used by the State of Florida is the basis for this model. The MEMPHIS and ELVIS models were incorporated into the estimates.

Average floodwater depth through and including Level 3 Hurricane Vulnerability Zone is estimated to be 4 feet. All calculations performed within the Modeling Software are based on replacement values of properties as supplied by the Pasco County Property Appraiser's Office. These property values are updated annually. All exposures amounts are stated in thousands of dollars.

(1) Coastal Flooding/Floods

The following provides estimated dollar losses based on replacement costs to various structure types evaluated. HAZUS-MH calculates the total economic exposure from floods, based on building and content

value for residential, commercial, industrial, agricultural religious, educational and governments in three percentage values. The exposure amount in thousands of dollars for Pasco County totals exposure \$30,369,845. One percent of the population resides in the 100 yr flood plain with exposure of \$303,698.45. Three percent of population lies in the 500 yr flood plain with exposure of \$911,095.40 and ten percent of the population resides in the coastal floodplain with exposure of \$3,036,984.50

(2). Hurricane exposures

HAZUS-MH was capable of providing a more in-depth analysis of the exposure to hurricanes, providing a breakdown by type of structure. The evaluation is based on the 2000 census data with a population of 345,765. The total exposure is determined to be \$30,369,845. The following data represents total exposure for a category 5 storm.

- (a) Residential exposure: \$25,330,668
- (b) Mobile Home exposure: \$ 3,731,392
- (c) Industrial exposure: \$ 649,534
- (d) Agricultural exposure: \$ 81,938
- (e) Religious exposure: \$ 269,472
- (f) Educational exposure: \$ 207,560
- (g) Government exposure: \$ 99,281

(3) Tornado/Severe Storm/Lightning Strike exposures

HAZUS-MH considers Pasco County to be at a high risk for tornados (1-100 chance) and severe storms (1-50 chance). The evaluation is based on the 2006 census data with a population of 450,171. The total exposure is determined to be \$30,369,845. Two significant tornadic events have occurred in the past three years. The Christmas Day Tornado of 2006, which was an F-2 affecting primarily Tampa Bay Golf and Country Club, damaged 105 homes at a cost of \$3,500,000. On December 16, 2007 the Central Pasco Jail was struck by a tornado causing major damage to the roof, numerous vehicles, and a temporary jail facility housing prisoners, costing Pasco County \$1,853,530. The following data represents total exposure for tornados and severe storms.

- (a) Residential exposure: \$25,330,668
- (b) Mobile Home exposure: \$ 3,731,392
- (c) Industrial exposure: \$ 649,534
- (d) Agricultural exposure: \$ 81,938
- (e) Religious exposure: \$ 269,472
- (f) Educational exposure: \$ 207,560

(g) Government exposure: \$ 99,281

Lightning strikes are considered a high vulnerability for the entire County mainly as a consequence of severe storms or a cause of wildfires. Lightning strikes from severe storms may cause structure damage, injuries, or loss of life.

(4) Wildfire/Major Structural Fire

Wildfire exposure is considered to have a high probability of occurrence within Pasco County according to MEMPHIS. According to the Pasco County Fire Rescue statistics, there have been 14 major structure fires, either in multi-story buildings or large commercial structures. The vulnerability for major structural fires is low as Pasco County is primarily a residential community of single family and mobile homes. In the past 14 years, Pasco County has been impacted by 348 wildfires. Based on historical data from the State of Florida, the average loss from a wildfire is \$1,107,000. The following data represents total exposure for wildfires.

- (a) Residential exposure: \$25,330,668
- (b) Mobile Home exposure: \$ 3,731,392
- (c) Industrial exposure: \$ 649,534
- (d) Agricultural exposure: \$ 81,938
- (e) Religious exposure: \$ 269,472
- (f) Educational exposure: \$ 207,560
- (g) Government exposure: \$ 99,281

(5) Drought/Heat Wave

The committee has reviewed the drought vulnerability as part of the 2009 revision process. The entire state continues to be at-risk to cyclical drought/heat waves. The vulnerability to drought/heat waves is different from the other vulnerabilities considered in this plan. The committee has determined that there is no material impact the physical infrastructure of the state, rather it impacts the various human, animal and plant populations.

(6) Winter Storm Freezes

The committee has reviewed this winter storm freeze vulnerability as part of the 2009 revision process. The entire state continues to be at-risk to cyclical winter storm freezes. The vulnerability to winter storm freezes is also different from the other vulnerabilities considered in this plan. The committee has determined that there is no material impact the

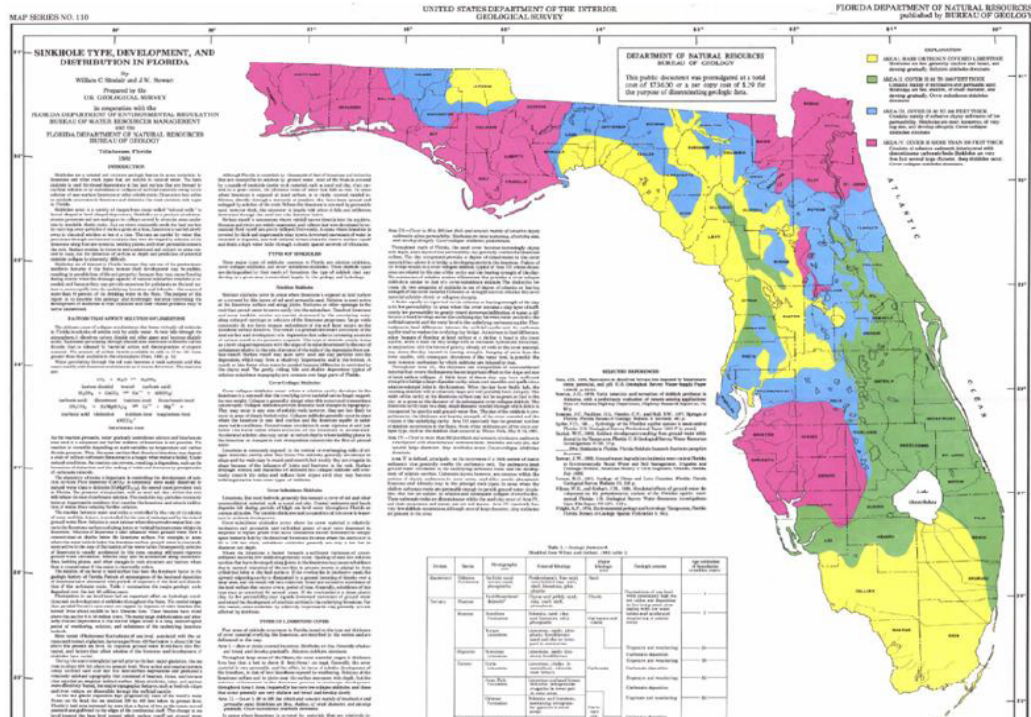
physical infrastructure of the state, rather it impacts the various human, animal and plant populations.

(7) Coastal/River Erosion

Pasco County, with a largely north facing coastline, has been determined to be at a low risk for coastal/river erosion with only one area identified. Hudson Beach is determined to be have critical exposure, however encompasses only .2 miles of the coastline. Only one other area, Green Key, is identified as a non-critical exposure and encompasses 1.1 miles of coastline.

(8) Sinkholes

Pasco County is identified as having a high occurrence of sinkholes as Southwest Florida Water Management District reports 2,291 citizen inquiries concerning potential sinkholes within the County. The State of Florida however, lists Pasco County as having a low hazard rating for sinkholes with sinkhole data through the Florida Department of Environmental Protection listing less than 300 verified occurrences. It is extremely difficult to determine the economic impact of sinkholes as the majority are located on private property, covered by the property owner's insurance, and varying in size from several feet to several hundred feet. The risk exists throughout the State; however, sinkhole reporting also includes instances of natural settling of a structure. Pasco County also has varying vulnerability layers. The coastline, Southcentral Pasco, and Northeast Pasco have bare or thinly covered limestone with few sinkholes, which are generally shallow and broad and develop gradually. The remainder of the County is covered by 30-200 foot thick cohesive clay sediments of low permeability. Sinkholes are most numerous of varying size, and develop abruptly. Cover-collapse sinkholes dominate.



The following represents the economic exposure of the County to sinkholes.

- (a) Residential exposure: \$25,330,668
- (b) Mobile Home exposure: \$ 3,731,392
- (c) Industrial exposure: \$ 649,534
- (d) Agricultural exposure: \$ 81,938
- (e) Religious exposure: \$ 269,472
- (f) Educational exposure: \$ 207,560
- (g) Government exposure: \$ 99,281

(9) Landslide, Earthquake, Tsunami

Pasco County has not experienced landslide, earthquake, or tsunami activity. However, the coastal area, including New Port Richey and Port Richey would be at risk for a tsunami, should one occur. The topography of Eastern Pasco County, including Zephyrhills and Dade City, where gently rolling hills are located, would be at some risk for landslides. Property damage from landslides would be minimal. There are no known ground faults within Pasco County, so earthquake activity would be highly unlikely, but is possible as the State of Florida is situated on the trailing margin of the North American Plate.

(10) Other Hazards Exposure

For the 2009 revision, Pasco County analyzed the vulnerability to all the natural hazards that were identified in the Local Hazard Mitigation Plan. Manmade and technological hazards such as terrorism, nuclear events, hazardous materials, pandemic flu, exotic pests, mass migration and others have been identified but were not fully profiled and analyzed as part of the five-year review cycle for FEMA. Pasco County reserves the right to profile and include these hazards in future revisions of this plan.

b. Critical Facilities Estimated Loss Model

In contrast to the HAZUS-MH and actual costs described above, which addressed all assets in an area impacted by a hazard, the Critical Facilities Estimated Loss Model addresses the vulnerability of only critical facilities impacted by the three most likely hazards to impact Pasco County. The vulnerability and resultant dollar losses of these critical facilities are addressed from the perspectives of damage from storm surge, flood and wind.

Since generation of estimated dollar losses from this model is currently a manual effort (unlike HAZUS-MH which has an automated dollar loss generation included), the **segment of critical facilities targeted in this model was only the segment of critical facilities utilized for emergency functions.** This piece of the total critical facilities pie was addressed due to the labor intensive effort required to identify and estimate losses for structures using Pasco County's existing information.

The most appropriate way to obtain replacement value information for Pasco County's critical facilities is to access the Pasco County Property Appraiser's Files. The Property Appraiser's Files are in a lot and parcel orientation, whereas critical facilities are identified by physical street address in Pasco County Emergency Management Files.

The inability to directly reference the Property Appraiser's files by street address is problematic. Under each lot and parcel number, there can be multiple facilities (each one represented by a "card"). While there is a table of all physical addresses included within the overall lot and parcel number, there is currently no correlation between the individual "cards" and specific physical addresses. The only way to determine which specific facilities are represented by which "cards" is to do a manual lookup of all cards assigned to the lot and parcel number containing the facility's address. In this manual lookup mode, some information may be found, such as wording in a description field, which will correlate a particular "card" to a facility's address.

Currently, in order to generate the estimated loss costs of not just critical facilities used for emergency functions, but for all critical facilities that would be impacted by a hazard or hazards, Pasco County is working to correlate the Property Appraiser's Database and databases in Emergency Management and GIS. This correlation will allow for lot and parcels, physical addresses and coordinates to be cross referenced to one another. Required loss cost reports will then be generated in a much more automated manner. The correlation of the databases and automatic generation of the cost reports is targeted to be completed by the time of the 2011 Annual LMS Update. This project was originally scheduled to be completed by the 2009 re-submission, but has been delayed while awaiting the FEMA flood map update in process.

GIS provided the necessary maps to include maps of hazards, critical facilities, and hazard overlay maps for SLOSH (using Hurricane Evacuation Zone Maps) wind and flood hazards. The maps in the latter part of Appendix D reflect the impact of these hazards on all critical facilities, as well as critical facilities used for emergency functions.

Using the Pasco County Property Appraiser's data, GIS modeling and guidelines in the FEMA document Understanding Your Risks: Identifying Hazards and Estimating Losses, the estimates below reflect the higher profile and impact losses involved when using critical facilities for emergency functions:

Sample potential storm surge loss calculation (average 4 foot storm surge inundation = 29% of replacement cost):

- 1 school: $\$23,811,432 \times .29 = \6.9 million
- 1 hospital $\$26,358,999 \times .29 = \7.6 million
- 1 fire station: $\$539,827 \times .29 = \156.5 thousand

Sample potential flood losses (average 4 foot flood depth = 29% of replacement cost):

- 1 school: $\$23,811,432 \times .29 = \6.9 million
- 1 hospital $\$26,358,999 \times .29 = \7.6 million
- 1 fire station: $\$539,827 \times .29 = \156.5 thousand

Sample potential wind losses (estimation tables not available, full replacement cost reflected):

- 1 hospital: \$26.4 million
- 1 school: \$23.8 million
- 1 fire station: \$539.8 thousand

See Maps in Appendix D for Critical Facilities located in evacuation zones or the 50 mile Inundation Zone.

c. Structures and Infrastructure located in Hazard Areas

As most of Pasco County’s hazards affect all areas within the county’s boundary, all structures in the county are vulnerable to the following hazards: hurricanes and tropical storms, severe storms and tornados, floods, wildfires, lightning strikes, disease outbreaks, hazardous materials incidents, general power failures, and major structural fires. As a result, Table 3.1 shows the number of buildings by type that are vulnerable to those hazards. Critical facilities and infrastructure throughout the county are show on the maps in Appendix D.

Table 3.1 Buildings by Type in Hazard Areas

Structure Type	Number
Mobile Homes	32,912
Single Family Homes	105,525
Multi-family Homes	7,467
Condominiums	0
Commercial	5,747
Public Buildings	610
Other	3,362
TOTAL	155,623

Although the entire county is vulnerable to hurricanes and tropical storm winds, the number of structures located within evacuation zones is shown in Table 3.2 as these structures located in evacuation zones are the most vulnerable to storm surge. Also, the number of critical facilities in the 50-mile inundation zone is shown in Table 3.3.

Table 3.2. Number of Structures in Evacuation Zones by Type

Structure Type	Number	Structure Type	Number
Mobile Homes	8,821	EMS Facilities	14
Single Family Homes	58,558	Funeral Homes	8
Multi-family Homes	3,508	Hospitals	3
Condominiums	0	Landfills	1
Commercial Buildings	2,969	Law Enforcement Facilities	3
Airfields	1	Nursing/ Community/ ACLF Homes	14
Animal Care Facilities	10	Parks	35
Clinics	16	Potable Water	11
Communication Towers	32	Public Buildings	11
Correctional Facilities	1	Red Cross Facilities	1
Educational Facilities	49	Salvation Army Facilities	3
Electrical Stations	14	Well Fields	43

Table 3.3. Number of Structures in 50-mile Inundation Zone for Crystal River Power Plant by Type

Structure Type	Number	Structure Type	Number
Airfields	2	Landfills	4
Animal Care Facilities	8	Law Enforcement Facilities	6
Clinics	9	Nursing/ Community/ ACLF Homes	19
Communication Towers	61	Parks	36
Correctional Facilities	3	Potable Water	16
Educational Facilities	47	Public Buildings	12
Electrical Stations	17	Red Cross Facilities	1
EMS Facilities	23	Salvation Army Facilities	3
Funeral Homes	8	Well Fields	47
Hospitals	3		

d. Future Buildings in Hazard Areas

There are several proposed or approved Master Planned Unit Developments (MPUDs) and Development of Regional Impact (DRIs) in the evacuation zones and/or the 50-mile ingestion zone for the Crystal River Nuclear Power Plant. The remainder of the hazards affect the entire County, only agricultural lands, or very small areas. All new construction is subject to the State of Florida Building Code, requiring wind code upgrades and flood plain mitigation. All residential construction in the hazard vulnerability zone (HVZ evacuation zones 1-3) and all mobile home communities are required provide mitigation as stated in Article 400 of the Pasco County Land Development Code. The Land Development Code requires a per unit shelter mitigation fee or offsite shelter provision and an Intelligent Traffic System (ITS) fee be paid to the County. The six municipalities within the County do not have any significant construction projects within their city limits at this time. Construction within city limits is primarily building additions, modifications, demolition and replacement projects. All new construction will meet or exceed the current building codes.

New Construction in Evacuation Zones

1. SunWest Harbourtowne: 2,500 residential units; 250,000 sq. ft. for commercial use including 250 hotel rooms, 500 boat slips, and 18 hole golf course. The planned completion date is December 2018. (Also in the 50-mile ingestion zone.)
2. Hudson Pointe: 120 mobile homes; 200 homes or 576 townhomes. This MPUD does not have a completion date listed. (Also in the 50-mile ingestion zone.)
3. Baillie Drive: 60 townhomes. The planned completion date is January 2010. (Also in the 50-mile ingestion zone.)
4. Sun Toyota: 90,000 sq. ft. for commercial use; 85 or 107 townhouses. The planned completion date is December 2009.
5. Boca Vista: 940 housing units. The planned completion date is December 2010.

New Construction outside the evacuation zones but within the 50-mile Ingestion Zone

1. Berry Hill Estates: 266 homes. The planned completion dates is December 2010.
2. Suncoast Lakes: 655,000 sq. ft. for commercial use; 13.1 acres for church/public service use. The completion date is December 2010.
3. Connerton: mixed-use development of over 6,000 acres including housing, commercial, and industrial centers. The project will be completed in phases through December 2030.
4. Bexley Ranch: mixed-use development of over 6,000 acres including housing, commercial, schools, a park and a possible golf course. The

planned completion date is December 2015. (Only a small portion of this development is in the ingestion zone.)

5. Talavera: 800 housing units. The planned completion date is December 2010.
6. Pine Ridge Estates: 300 housing units. The planned completion date is December 2009.

Planned Critical Facilities and Infrastructure – Due to the current economic conditions, Pasco County and the municipalities are restructuring the Capital Improvements Programs as well as the critical facilities construction schedules. All target dates are subject to revision.

1. Construction of five new fire stations to meet current building codes will be completed by 2010.
2. Construction of the Regional Hurricane Shelter in the northwest will be complete by February 2010.
3. The District School Board of Pasco County is constructing a high school in northwest Pasco County to meet the Enhanced Hurricane Protection Area standards for use as a shelter, which will be completed in 2011.
4. The District School Board of Pasco County in partnership with the Florida Department of Management Services is in the process of installing a generator at Wesley Chapel High School, near Zephyrhills, for use as a shelter, with completion in 2010.
5. A new Animal Services shelter has been designed; however, construction has been delayed due to funding.
6. A 512 bed jail facility is under construction. The first phase has been completed and subsequent phases will be under construction soon.
7. Pasco County utilizes the Stormwater Utility fund to address drainage problems, flooding conditions, and meeting state and national requirements for preventing stormwater pollution and protecting the quality of our water. This is an ongoing program.
8. All municipalities participate with Pasco County in the Metropolitan Planning Organization which prioritizes the projects in the Capital Improvement Program.

Regardless of geographic location, all critical facility projects throughout the county must meet or exceed the standards set by the Governor's Building Code, the Florida wind codes, and Flood Plain Regulations. The District School Board of Pasco County and the state colleges must also meet or exceed the Enhanced Hurricane Protection Area standards if they are located outside the hurricane evacuation zones.

IV. MITIGATION RESPONSIBILITIES

The Federal, State and Local Government responsibilities for hazard mitigation create an interlocking framework of governmental involvement. This section describes the personnel involved in response, recovery, planning and hazard mitigation.

A. FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA)

The Federal responsibilities for Hazard Mitigation Planning Committee under 44 CFR, Part 206, Subpart M are assumed by FEMA. FEMA has oversight of all pre- and post-disaster hazard evaluation and mitigation programs and activities.

FEMA is responsible for administering the Hazard Mitigation Program within the Disaster Assistance Programs Division. The hazard mitigation programs and activities include: the Disaster Preparedness Improvement Grant Program, Hazard Mitigation Assistance Program, Hazard Mitigation Grant Program, Leadership of Hazard Mitigation Survey Teams and Interagency Hazard Mitigation Teams; and planning activities conducted under Section 409. FEMA is also responsible for the appointment of a Federal Hazard Mitigation Officer for each disaster to manage hazard mitigation programs and activities. In addition, FEMA provides technical assistance to state and local governments in fulfilling mitigation responsibilities.

B. FLORIDA DEPARTMENT OF COMMUNITY AFFAIRS, DIVISION OF EMERGENCY MANAGEMENT (FDEM)

FDEM is responsible for Hazard Mitigation Planning Committee under 44 CFR, Part 206, Subpart M. FDEM appoints a State Hazard Mitigation Officer, who reports to the Governor or an authorized representative, and who serves as the point of contact for all matters relating to Section 409, Hazard Mitigation Planning Committee and Implementation. FDEM prepares and submits, in accordance with the FEMA-State Agreement and the requirements of this subpart, a Local Mitigation Strategy(s) or updates to existing plan(s), as required under 206.405. The plan or update includes an evaluation of the natural hazards in the declared area and an identification of appropriate actions to mitigate those hazards.

FDEM participates on the Hazard Mitigation Survey Team or Interagency Hazard Mitigation Team activated after the declaration. They arrange for appropriate state and local participation on the Hazard Mitigation Survey Team or Interagency Hazard Mitigation Team, follow-up with state agencies and local governments to ensure that appropriate hazard mitigation actions are taken and coordinate plans and actions of local governments to ensure that they are not in conflict with each other or with state plans. In addition, FDEM ensures that the activities, programs and policies of all state agencies related to hazard evaluation, vulnerability, and mitigation are coordinated and contribute to the overall lessening or avoidance of vulnerability to natural hazards.

C. PASCO COUNTY

1. American Red Cross (ARC):
The ARC is the lead agency for Emergency Support Function (ESF) 6, Mass Care and is responsible for the coordination and provision of shelters and other disaster services for victims.
2. Attorney's Office:
The Attorney's Office offers counsel to various Boards and Committees including the Board of County Commissioners, Planning Commission and Development Review Committee, and is very active in obtaining right-of-way for infrastructure projects and negotiating contracts for construction.
3. Building Inspections:
The Building Inspections Department accomplishes an inspection process to ensure that each structure within the County is constructed to the Florida Building Codes. In addition, the Department assesses damage and determines level of safety and habitability of structures, protects residents from unsafe situations and attempts to allow re-entry into homes/businesses in a timely manner and provides inspectors that will review and oversee rehabilitation efforts and ensures that each structures design mitigates hazard impacts.
4. Central Permitting:
The Central Permitting Department reviews all permit applications for compliance with Building, Fire, Floodplain Management and Land Development Codes.
5. Community Development:
The Community Development Department oversees the financing and construction of infrastructure, public facilities, structural rehabilitation, housing assistance and other activities related to low and moderate income areas. In addition, this Department administers the Community Development Block Grant (CBDG) program, Home Investment Partnership Program, Emergency Shelter Grant, State Housing Initiatives Partnership (SHIP) Program, Housing Finance Authority, and Housing Preservation Grant Programs.
6. Community Services:
Community Services is the lead agency for ESF 18, Long Term Human Service Delivery and coordinates community outreach teams and disaster recovery centers.
7. Information Technology:
The Information Technology Department administers the Emergency Operations Center computer network and links to the Property Appraiser's database.

8. Development Review:
The Development Review Division administers the National Flood Insurance Program (NFIP) and coordinates policies and procedures for hazard mitigation efforts with the Building, Floodplain Management and Land Development Codes. In addition, the Division conducts public education programs to inform the public of the floodplain rules and regulations, maintains the Land Development Code and reviews amendments and processes amendments to the Code.
9. Emergency Services Department (ESD):
ESD (Fire and Rescue) is the lead agency for ESF 4, Firefighting and ESF 9, Search and Rescue, and provides response to fire, medical emergencies and all other rescue operations, assists in staffing evacuation shelters with medical personnel and supplies, establishes fire and life safety codes and provides enforcement and conducts public education on fire safety.
10. Facilities Management:
The Facilities Management Department is a member of ESF 7, Resources, and maintains County buildings, surveys damage, ensures operation of critical systems and recommends hazard mitigation measures.
11. Growth Management/Zoning Department/Metropolitan Planning Organization (MPO):
The Growth Management Administration maintains the Pasco County Comprehensive Plan, evaluates development in accordance with the goals, objectives and policies in the Plan and reviews amendments and processes amendments to the Plan. The Zoning Department regulates the siting and lot specifications of development within the guidelines established by the Zoning Ordinance. MPO accomplishes long-range transportation planning, monitors concurrency with Level of Service Standards for new development and performs bikeway and pedestrian planning.
12. Libraries:
The Libraries Department provides staff for the Resident Information Center (RIC) to answer calls and provide information to residents 24 hours/day during an emergency.
13. Office of Emergency Management (OEM):
The OEM has the local government responsibility for hazard mitigation planning under 44 CFR, Part 206, Subpart M. The OEM participates in the process of evaluating hazards and adoption of hazard mitigation measures, including land use and construction standards, appoints a Local Hazard Mitigation Officer, if appropriate, participates on Hazard Mitigation Survey Teams and Interagency Hazard Mitigation Teams, as appropriate and participates in the development and implementation of Section 409 plans or plan updates, as appropriate. In addition, the OEM coordinates and monitors

the implementation of local mitigation measures. The OEM develops and maintains the Comprehensive Emergency Management Plan (CEMP). The CEMP includes a Hazard Vulnerability Analysis, which facilitates prioritization of mitigation measures. The CEMP also includes a Recovery Element detailing Disaster Assistance, Hazard Mitigation Programs and long-range Reconstruction Plans. The OEM provides training in public education, coordinates all activities within the Emergency Operations Center and assists in the coordination of Department/Division's emergency planning.

14. Office of Management and Budget (OMB):

The OMB is responsible for the financial oversight of a disaster, which includes accounting paperwork, purchasing information, payroll, insurance documentation and allocation of contingency funds, as necessary. In addition, OMB reviews capital improvement plans and associated costs.

15. Parks and Recreation:

Under the Coastal Management Program, the County maintains waterfront parks and facilities along the County's shoreline which provide public access, while preserving the natural integrity of the County's publicly owned coastal areas. As the lead agency for ESF 15, Volunteers and Donations, the Parks and Recreation Department coordinates receipt and distribution of donated goods and deployment of volunteers in the aftermath of a disaster.

16. Public Health Department:

As the lead agency for ESF 8, Health and Medical Services, the Public Health Department coordinates the Special Needs Assistance Population Program (SNAPP) and assesses public health concerns/needs in the aftermath, issues boil water orders and implements immunization programs as necessary. The Department is also the lead agency for the County's public health response to a Pandemic Flu.

17. Public Works:

As the lead agency for ESF 3, Public Works manages engineering and debris clearance and removal, designs, builds and maintains road and bridge infrastructure and stormwater drainage systems and responds to flooding problems and implements corrective measures where possible.

18. Risk Management:

The Risk Management Department administers the County's self insurance program and is instrumental in insurance policy acquisition for County-owned buildings and contents, data processing and communications equipment, and waste to energy facility policies.

19. Sheriffs Office:

As the lead agency for ESF 16, Law Enforcement and Security, the Sheriffs Office implements evacuation of areas in danger of sustaining substantial

damage or loss of human life, conducts traffic control along designated evacuation routes, secures evacuated areas by establishing a perimeter and allowing access to designated individuals and provides security at designated shelters.

20. Stormwater Management:

Stormwater Management is responsible for developing and maintaining the Stormwater Master Plan and the coordination of Stormwater projects to alleviate flooding.

21. Survey/Geodetic Mapping Department:

The Geographic Information System (GIS) Department provides analysis and maps of geographic data such as vulnerability analyses.

22. Utilities Department:

As lead agency for ESF 12, Utilities, the Utilities Department coordinates operations between electric, telephone and private utility companies, performs pre- and post-disaster solid waste removal and provides assistance to Public Works in debris clearance and removal.

D. MUNICIPALITIES

The following local governments are included with Pasco County in the multi-jurisdictional approach: Dade City, New Port Richey, Port Richey, St. Leo, San Antonio, and Zephyrhills

1. Dade City

a. Building Official:

The Building Official ensures that the finished floor elevations are in conformance with FEMA requirements, enforces building codes and FEMA regulations, reviews proposed projects in the city to ensure the plans meet the code requirements to mitigate hazard impacts and coordinates inspections and corrective action of existing buildings, which are in poor condition to mitigate hazard impact. In addition, the building official coordinates recovery and rebuilding operations with City Commission and provides a damage assessment of city buildings and infrastructure following a disaster. During recovery efforts, the Building Official estimates damage and ensures rebuilding is done to meet proper codes, provides an inspection process to ensure that each structure within the city is constructed to the standard building codes identified by the city and provides inspectors that will review and oversee rehabilitation efforts and ensure the structure design mitigates hazard impacts. Also, the Building Official develops a Plan for Record Protection (microfiche), coordinates with FEMA and the State (DEM) in recovery and coordinates with Pasco County Office of Emergency Management and volunteer

organizations active in disaster (including churches, Salvation Army, and Red Cross) for the set up of recovery sites within the city to distribute emergency supplies to the citizens affected by a disaster.

b. City Attorney:

The City Attorney ensures mitigation of loss of all legal records, reviews ordinances, and contracts and plans.

c. City Engineer:

The City Engineer works with federal, state and local officials to develop mitigation projects to reduce flooding and mitigate stormwater runoff, maintains city water and waste water systems and identifies mitigation projects necessary for those systems.

d. City Manager:

The City Manager coordinates mitigation policies with City Commission, establishes a mechanism for policy review and approval, and maintains property accountability and funding availability. In addition, the City Manager provides a risk and business impact analysis, City-wide program of loss control, a series of emergency response procedures, and insurance coverage tailored specifically to the City's needs.

e. City Planner/Zoning Administrator:

The City Planner/Zoning Administrator coordinates policies and procedures for hazard mitigation efforts with the building and fire safety codes, land development codes and the Comprehensive Plan. In addition, the City Planner/Zoning Administrator maintains and implements the City's Comprehensive Plan and ensures that site plans of all new developments comply with the Comprehensive Plan and zoning requirements.

f. Finance Director/City Clerk:

The Finance Director/City Clerk maintains the financial aspect of an overall disaster program for the City that combines financial administration, accounting treasury, purchasing, payroll, insurance and safety, ensures incorporation of the financial and assessment needs both during and after the disaster strikes and preserves City records (mitigates loss of city records through microfilming and digital data backups). In addition, the Finance Director/City Clerk will request all departments develop a disaster plan for records in their departments.

g. Police Chief:

The Police Chief is the Emergency Management Coordinator (EMC) and Pasco County Emergency Management responsible for evacuation in areas in danger of sustaining substantial damage or loss of human life, conducts traffic control along designated evacuation routes, secures evacuated areas

by establishing a perimeter and allowing access only to designated persons and patrols the city for vandalism after an evacuation or during recovery. In addition, the Police Chief establishes departmental procedures to perform in a disaster operation and assists in the coordination of city evacuation plans and procedures, establishing emergency management planning in the City, provides coordination and training, including public education, maintains the City Emergency Operations Center (EOC) and represents the City as a liaison to Pasco County during emergency events. In addition, the EMC assists PCEM with the evacuations of mobile home parks and low lying, flood prone areas, establishes fire and life safety codes and code enforcement, hazardous materials and public education, serves as a point of contact and a liaison for businesses and industries within the City and coordinates with hotel and motel industry related businesses. Further additions include the acquisition and distribution of food and emergency supplies to designated facilities for the feeding of City staff on duty during a disaster or emergency, and coordinates with the Pasco County Office of Emergency Management including all volunteer organizations active in disaster for the set up of recovery sites within the City to distribute emergency supplies to the citizens affected by disaster. The EMC, or his/her designee, acts as an information officer during an emergency and provides information to the general public, the EOC and employee families as the Dade City Public Information Officer.

h. Public Works:

The Public Works Department prepares buildings and equipment for evacuation (i.e. shutters, window covers, retrofit), where possible, relocates city vehicles and equipment to higher ground, if necessary and performs regular maintenance and emergency response for stormwater and drainage system (removal of debris). In addition the Department coordinates and implements agreements with the County for pre- and post-disaster solid waste and debris removal, maintains city stormwater systems, identifies mitigation projects necessary for those systems and coordinates and provides debris removal teams.

i. Purchasing:

The Purchasing Department coordinates the acquisition and distribution of food and emergency supplies to designated facilities for the feeding of City staff on duty during a disaster or emergency and coordinates with the Pasco County Office of Emergency Management and volunteer organizations active in disaster (including churches, Salvation Army, and Red Cross) for the set up of recovery sites within the city to distribute emergency supplies to the citizens affected by a disaster.

2. New Port Richey

- a. City Clerk:
The City Clerk records and documents all official action taken and emergency decisions made by the City Council during and after disaster operations.
- b. City Manager:
The City Manager acts as the Executive Director to the City Council for all disaster operations including Natural Disaster Planning and the training of all designated City departments.
- c. Development Services:
The Development Services Department addresses actions to be taken and policies to be developed before a disaster, in order to reduce damage to buildings and property and conducts damage assessment surveys after an incident to ensure proper disposition of unsafe or damaged structures.
- d. Finance:
The Finance Department enters into agreements with other locations for backup support data functions and financial records and maintains financial records in support of any natural disaster.
- e. Fire Department:
The Fire Department develops the concept, identifies resources, coordinates procedures and conducts operations to provide fire suppression, emergency medical services and search and rescue and plans and organizes the needs assessment effort for determining the impact of damage occurring during and after a disaster.
- f. Police Department:
The Police Department develops procedures for evacuation and early warning of citizens in areas of potential danger and establishes traffic central and maintains law and order throughout a disaster situation.
- g. Public Works:
The Public Works Department plans, coordinates and manages various duties assigned to each department under Public Works, ensures debris clearance and repair of City streets and evacuation routes and maintains integrity of water and wastewater production and distribution equipment and facilities.

3. Port Richey

- a. Building and Zoning Department:
The Building and Zoning Department is responsible for Disaster Preparedness coordination, post-disaster inspections of structures and the issuance of permits and enforcement of all Building Codes. This Department authorizes re-entry into evacuation areas and processes and coordinates mitigation grants.
- b. City Clerk:
The City Clerk is responsible for printing and delivering educational materials to city residents.
- c. City Manager:
The City Manager manages all city departments, ensures compliance with the goals and objectives in the Port Richey Comprehensive Plan and decides on issues relative to the safety and welfare of the city and its residents during emergency situations.
- d. Finance:
The Finance Department coordinates the post-disaster funding for recovery, mitigation and re-development.
- e. Fire Department:
The Fire Department provides response to incidents of fire, medical emergencies and all other types of rescue operations, develops fire codes, life safety codes and hazardous materials codes and educates the public.
- f. Police Department:
The Police Department provides assistance to the Fire Department in evacuation areas in danger of sustaining substantial property damage or loss of human life.

4. San Antonio

- a. Building and Maintenance:
The Building and Maintenance Department ensures compliance with Building Codes and provides for a process to accomplish the regular maintenance of property. The City has an interlocal agreement with the City of Dade City to allow the Building Inspector for Dade City to inspect property in San Antonio. The City has no officially designated Code Enforcement Office or Department. Code Enforcement is complaint driven. Complaints received are investigated by City staff and reviewed by an appointed Code Enforcement Board.

- b. Central Permitting:
Following site plan and zoning review by City Staff, the City of Dade City Building Department issues permits and conducts inspections to ensure that each structure is constructed to the Standard Building Code.
- c. City Clerk:
The City Clerk handles all necessary coordination and planning requests for the allocation of City finances. In addition, the City Clerk maintains all financial records from a disaster that includes: accounting paperwork, purchasing information, payroll and insurance documentation, ensures information is readily available after a disaster and is responsible for general coordination and information, both pre- and post-disaster.
- d. City Manager/Mayor:
The City Manager/Mayor is responsible for coordination of all pre- and post-disaster coordination of City resources.
- e. Development Services:
This function is contracted out by the City to private consulting firms.
- f. Engineering:
The City conducts a review process to ensure that all development is in compliance with the City's Land Development Code. This function is contracted out by the City to private engineering firms on a contract by contract basis.
- g. Police/Fire Department:
The city of San Antonio contracts out all police functions to the Pasco County Sheriff's Office. The City of San Antonio is included in a Pasco County Municipal Services Taxing Unit for Fire Combat and Rescue Services.
- h. Public Works:
The Public Works Department provides for maintenance of City right-of-way including road resurfacing, maintenance of drainage areas, etc. City staff repair and maintain the majority of the City rights-of-way, often by contracting with a private company. Major street resurfacing projects are usually handled by Pasco County Public Works Department through an interlocal agreement, on a project by project basis.

5. St. Leo

- a. City Clerk/Mayor:
The Town Clerk and Mayor of St. Leo serves as the Public Information Official (PIO) in the event of a disaster and any subsequent mitigation efforts.

- b. Central Permitting:
The Dade City Building Department handles all building permitting and inspections by interlocal agreement.
- c. Engineering:
Engineering Services are privately contracted on an as-need basis.
- d. Finance:
The Town Clerk and Mayor handle all coordination/planning for requests of financial allocation.
- e. Police/Fire Department:
The Town of St. Leo contracts all law enforcement with the Pasco County Sheriff's Office. The Pasco County Fire Rescue Department is responsible for all fire services. The residents of St. Leo pay MSTU taxes for this service.

6. Zephyrhills

- a. Building Official:
The Building Official enforces building codes and FEMA regulations, reviews developmental projects in the city to ensure the proposed plans meet the code requirements to mitigate hazard impacts and coordinates inspections and corrective action of existing buildings, which are in poor condition to mitigate hazard impact. During recovery efforts, the Building Official estimates damage and ensures rebuilding is done to meet proper codes. The official also provides an inspection process to ensure that each structure within the city is constructed to the standard building codes identified by the city and provides inspectors that will review and oversee rehabilitation efforts and ensure the structure design mitigates hazard impacts.
- b. City Attorney:
The City Attorney ensures mitigation of loss of all legal records and reviews ordinances, contracts and plans.
- c. City Manager:
The City Manager coordinates mitigation policies with the City Council, recovery/rebuilding operations with the City Council and the establishment of a mechanism for policy review and approval.
- d. City Planner:
The City Planner coordinates policies and procedures for hazard mitigation efforts with the building and fire safety codes, land development codes and the comprehensive plan, maintains and implements the City's

Comprehensive Plan and accomplishes site plan reviews to ensure that all new developments comply with the Comprehensive Plan requirements. In addition, the City Planner serves as a point of contact and liaison for businesses and industries within the city, ensures that the finished floor elevations are in conformance with FEMA requirements and assures that flooding will not be increased and works with federal, state and local officials to develop mitigation projects to reduce flooding and mitigate stormwater runoff.

e. Finance Department:

The Finance Department maintains the financial aspect of an overall disaster program for the City that combines financial administration, accounting treasury, purchasing, payroll, insurance and safety and incorporates the financial and assessment needs both during and after the disaster strikes. The Finance Department maintains property accountability, funding availability, provides a risk and business impact analysis, City-wide program of loss control, a series of emergency response procedures, and insurance coverage tailored specifically to the City's needs and preserves City records (mitigates loss of city records through microfilming/digital data backups). Also, the Finance Department ensures that all departments develop a disaster plan for records in their departments.

f. Fire Chief:

The Fire Chief establishes emergency management planning in the city. Provides coordination and training, including public education, provides response to fire, medical emergencies, and all other rescue operation, performs initial evacuation procedures and maintains the City Emergency Operations Center (EOC). The Fire Chief conducts evacuation of mobile home parks and low lying, flood prone areas, moves equipment to secondary locations on higher ground if necessary and assists in staffing evacuation shelters with medical personnel and supplies. In addition, the Fire Chief establishes fire and life safety codes and code enforcement, hazardous materials and public education, coordinates with hotel/motel industry related businesses and coordinates the acquisition and distribution of food and emergency supplies to designated facilities for the feeding of City staff on duty during a hazard/ emergency.

The Fire Chief coordinates with the Pasco County Office of Emergency Management and volunteer organizations active in disaster (including churches, Salvation Army, and Red Cross) for the set up of recovery sites within the city to distribute emergency supplies to the citizens affected by a disaster. The Chief also acts as information officer during an emergency and provides information to general public, the EOC and employee families.

- g. Police Chief:
The Police Chief provides assistance to the Fire Department with evacuation areas in danger of sustaining substantial damage or loss of human life, conducts traffic control along designated evacuation routes, secures evacuated areas by establishing a perimeter and allowing access only to designated persons and patrols the city for vandalism after an evacuation or during recovery. In addition, the Chief maintains security at designated evacuation shelters, establishes departmental procedures to perform in a disaster operation and assists in the coordination of the city evacuation plans and procedures.

- h. Public Works:
The Public Works Department prepares buildings and equipment for evacuation (i.e. shutters, window covers, retrofit), where possible, relocates city vehicles and equipment to higher ground, if necessary, maintains and provides an emergency response for the removal of debris within the stormwater/drainage system and coordinates and provides debris removal teams. The Sanitation Supervisor coordinates and implements agreements with the Pasco County for pre- and post-disaster solid waste disposal and debris removal. The Building Maintenance Supervisor provides a damage assessment of city buildings and infrastructure following a disaster.

- i. Utilities Director:
The Utilities Director maintains city water, wastewater and stormwater systems and identifies mitigation projects necessary for those systems.

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V. DEVELOPMENT OF MITIGATION INITIATIVES

This section describes the selection process used to identify the mitigation projects and programs.

The Mitigation Strategy addresses FEMA's Floodplain Map Modernization Program and Repetitive Loss Initiative including: prioritization of mitigation measures towards repetitive loss properties; fulfillment of CRS planning requirements; and FEMA's ongoing field and database verification projects for repetitive loss properties. Accompanying this will be a risk assessment and a discussion on repetitive loss structures, as well as mitigation measures that would reduce repetitive loss properties.

A. MITIGATION PROJECT/PROGRAM PRIORITIZATION CRITERIA

The Hazard Mitigation Project/Program Prioritization Worksheet (Figure 4) was utilized by multi-jurisdictions (Pasco County, Dade City, New Port Richey, Port Richey, St. Leo, San Antonio, and Zephyrhills) in the development of the list of Mitigation Initiatives. The Prioritization Worksheet requires the identification of projects and programs that appear to have technical merit, will be cost effective, and will protect the health, safety and welfare of Pasco County's citizens. Each project/program on the list of Mitigation Initiatives was described, categorized by type and ranked individually.

The Member submitting the new project filled out the Benefit-Cost Review for New Projects form to emphasize a review of benefits and costs for each new project being submitted and includes four Exhibits (Figure 5). The forms included were Measuring Vulnerability Before and After Mitigation, Benefits, Costs, and Social, Technical, Administrative, Political, Legal, Economic, and Environmental (STAPLEE) impacts. These forms were a qualitative analysis of the benefits and costs associated with each project.

Existing projects were assessed using STAPLEE for Existing Projects, which is the same as Exhibit 4 from Benefit-Cost Review for New Projects (Figure 5). This was also a qualitative analysis of the benefits and costs for existing projects. The costs and benefits for each action were listed for each STAPLEE criterion.

All projects were prioritized using the STAPLEE system. Each criterion of the STAPLEE was assigned a value of positive one (+1), zero, or negative one (-1). If the action resulted in a benefit for that criterion, it was assigned a value of positive one. Conversely, if the action resulted in a cost for that criterion, it was assigned a value of negative one. Zero was assigned if the criterion did not apply to that action. Scores for each criterion were summed to give a final ranking based on scores.

The prioritized list of projects was presented to the members during the February meeting. The members then approved the final prioritization for the mitigation projects and programs based on the rankings from the STAPLEE criteria.

Rationalization for Weights of STAPLEE criteria

Weights were assigned to some STAPLEE criteria based on community values and factors that heavily influence whether a project will be completed. The Planning Team determined that community acceptance should be weighted because when spending tax payers' money the community needs to value the action as a measure to help protect the community. Technical feasibility is important to consider when ranking projects because projects that are not technically feasible will never be completed and should not have high priority. Therefore, technical feasibility was given a weight of 3. The necessity and availability of technical or professional expertise will also determine whether a project can realistically be completed and was given a weight of 2. It was not given a weight of 3 because such services could be contracted out if they are not available in the jurisdiction completing the project. The community's ability to provide the appropriate maintenance for a project was given a weight of 3 because future problems may arise if they community cannot maintain the project. Authority to implement was given a weight of 2 because a project will be delayed if the community has to create the necessary statutory authority. Compliance with environmental regulations will save time and money if the project does not need to go through a complete environmental review. Reasonable cost was given a weight of 2 because it is important for cost-benefit review. In the current economic environment, the creation of new jobs was given a weight of 2 because the project will benefit the community both economically and in terms of mitigation. Natural environment was given a weight of 3 because it is important to the community to maintain the natural and beneficial functions of floodplains and wetlands.

The Goals and Objectives (Appendix A) were developed with input from the municipalities and the County, and highlight the areas of mitigation concern. There are currently many plans, programs, policies and ordinances in effect that address regulation, construction, and implementation. The Goals and Objectives are intended to reaffirm these initiatives and propose the development of some new initiatives.

The Vulnerability Assessment Table (Figure 3) is based upon an evaluation of the hazards that have historically impacted the County (floods, wildfires, lightning strikes, etc.) or could potentially impact the County (as evidenced by the Hurricane Evacuation Levels). The discussion of Vulnerability Assessment can be found in Chapter III, Section E. The projects/programs mitigating the threats of hurricanes, tropical storms, coastal, riverine, and local flooding were deemed to be the highest priority projects/programs for the County and local jurisdictions.

Figure 5

Exhibit 1: Measuring Vulnerability Before and After Mitigation

Action:

Vulnerability	Before the Action is Implemented*	After the Action is Implemented*	Difference
Number of people affected by the hazard			
Area affected (acreage) by the hazard			
Number of properties affected by the hazard			
Property damage (amount in \$)			
Loss of use (number of properties/physical assets [e.g. bridges] in number of days)			
Loss of life (number of people)			
Injury (number of people)			
**			

*Include measurable items, where possible, based on experience, professional estimate, or judgment.

** Add more categories of risk as appropriate

Exhibit 2: Benefits

Please list any additional benefits not included in the table above (Exhibit 1).

Action:

Risk reduction (short- or long-term):

If other community goals are achieved, explain:

If easy to implement, explain:

If funding is available, explain:

If politically/socially acceptable, explain:

Other:

Exhibit 3: Costs*

Please list any additional costs not included in the table above (Exhibit 1).

Action:

Construction cost (amount in \$):

Programming costs (amount in \$, # of people needed to administer):

Time needed to implement:

If unfair to a certain social group, explain:

If there is public/political opposition, explain:

If there are any adverse effects on the environment, explain:

Other:

*If precise costs are not available, use costs based on experience, professional estimate, or judgment.

Exhibit 4: STAPLEE

Please identify all the costs and benefits according to the following categories.

Action:

Social:

Will this action easily gain community acceptance?

Will this action have an adverse effect on any one segment of the population?

What effects will the action have on the social, historic, and cultural environment of the community?

Technical:

Is this action technically feasible and does it provide the appropriate level of protection?

What types of technical/professional expertise will be required to implement the project?

Is this expertise available? If so, what is the cost?

Will the action create more problems than it solves?

How long will it take to complete the project? Is this a reasonable timeframe?

Administrative:

Does the community have the capability (staff, expertise, time, funding) to implement the action?

Can the community provide the necessary maintenance of the project?

Political:

Is the mitigation action politically acceptable?

Will the general public support or oppose the project?

Legal:

Does the community have the authority to implement the action?

Will the action comply with local, State, and Federal environmental regulations?

Do homeowner association bylaws apply to the project?

Is the action likely to be challenged by stakeholders whose interests may be adversely affected?

Economic:

Do the costs of the action seem reasonable for the size of the problem and the likely benefits?

What burden will be placed on the local economy to implement and maintain the action?

Will the action generate additional jobs locally?

Environmental:

Is the proposed action in a floodplain or wetland or will it indirectly impact the natural and beneficial functions of a floodplain or wetland?

How will the action affect the natural environment?

How will the action affect utility and transportation systems?

B. MITIGATION PROJECTS/PROGRAMS

The list of Hazard Mitigation Projects/Programs (Appendix E) identifies projects/programs that can be funded through the Hazard Mitigation Grant Program (to be replaced by Pre-Disaster Mitigation), as well as those that can utilize alternative funding sources. The list developed includes the overall score of the projects/programs based upon the Project/Program Prioritization Worksheet, project location, project/program category, applicable jurisdiction, overview of funding sources, project/program description, estimated costs, estimated benefits (if calculated), and an implementation date for those projects included in FY Capital Improvement Programs.

Many of the projects/programs on the list include Elevation and Acquisition Projects and Stormwater Improvement Projects. Since the highest level of vulnerability for the County is associated with flooding events, the list accurately reflects the concerns of the community. The estimated benefit for many of the County's and City's Stormwater Improvement Projects is an assumption based upon the average value of similar homes in the area, with a 5% cost per household per event, multiplied by the number of households that could potentially be impacted by an event, assuming an event occurs at least once every ten years, and multiplied by the 30-year life of the home. The benefit shown is the annual cost avoided by implementation of this initiative. It is assumed that additional information will be needed to complete the cost-effectiveness analysis for a grant application.

Region IV requires that the Multi-Jurisdictional Plan include a description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards. The revision of the mitigation strategy includes how and why specific goals and objectives were developed and how they reduced the communities' vulnerabilities to the identified hazards. Furthermore, the revision includes an evaluation and analysis of the proposed projects in terms of anticipated mitigation benefits.

In addition to the Elevation and Acquisition Projects and Stormwater Improvement Projects, Feasibility Studies, Weather Information Projects, Retrofitting of Critical Facilities, Management Plan Development and Modification projects/programs are included in the Hazard Mitigation Projects/Programs List. The Worksheet was utilized to score these types of projects/programs on this list. However a cost-effectiveness analysis was not required, since funding sources other than the Hazard Mitigation Grant Program have been identified.

The availability of funding and the immediate priorities of the local government and municipalities will ultimately drive the selection of mitigation projects/programs for grant application submittal. The funding source, allocation, and priorities established by the grant program would determine if and when the mitigation projects/programs will be funded outside the regular local government budgetary process. The

description of funding sources is based upon information currently available and does not preclude the consideration of other funding sources that are not identified herein.

C. FUNDING SOURCES

A description of currently identified funding sources is provided in Appendix F. The list is provided as a guideline to communities, and is not to be considered complete as other funding streams may be or become available. The description includes an overview of the resource, eligibility criteria, type of assistance available, and a point of contact.

In addition to the funding sources for the mitigation projects/programs, there are a few programs available to citizens and homeowners to strengthen their homes and businesses. These programs include the Fannie Mae Project Impact Prevention Loan Program, Florida Alliance for Safe Homes (FLASH), and National Flood Insurance Program (NFIP).

The Fannie Mae Project Impact Prevention Loan Program has joined with the Florida Department of Community Affairs and the Federal Emergency Management Agency (FEMA) to make consumer installment loans available to Florida homeowners throughout the state. These unsecured loans, at competitive interest rates, will help homeowners complete structural elevation, utility protection/elevation, elevation of HVAC equipment, foundation bolting, chimney bracing, cripple wall stiffening, sprinkler system installation/retrofit, replacement of roofing systems installation of fire-resistant siding, installation of shutters/protection systems for openings, structural strengthening for wind, and construction of an in-home "safe room. All single-family homeowners (including mobile homes) in Florida are eligible for these loans. Homeowners may borrow up to \$10,000 and have up to ten years to repay the loan. Benefits to the consumer include a quick approval process; competitive interest rate; assurance work is performed by certified contractors; and an increase in the value of the home.

FLASH is a partnership of the insurance industry, state and federal government as well as national not-for-profit groups. The program is targeted at educating consumers about disaster mitigation. This is a multimedia campaign aimed at helping Floridians make their families, homes, and communities better able to withstand hurricanes and other severe windstorms. The initiative includes a toll-free information line (1-877-221-SAFE), web site (www.fl safehomes.org), and television public service announcements concerning how to prepare for the next hurricane season.

The NFIP provides flood insurance coverage for structures at risk in special flood hazard areas. The FDCA administers the NFIP in the state and provides technical assistance to local governments, residents and various building-trade groups on proper floodplain building and construction techniques. Insurance under the program

is available only for loss due to flood. If floods damage a home or business, the NFIP may require the owner to meet certain building requirements to reduce flood damage. To help meet the costs associated with repairing or rebuilding, NFIP grants policyholders up to \$15,000 to bring their home or business into compliance.

VI. IMPLEMENTATION AND MAINTENANCE OF THE LOCAL MITIGATION STRATEGY

The implementation of the Local Mitigation Strategy is a joint effort between local government, business, industry, and Pasco County residents. Each of these entities can ensure mitigation is undertaken effectively to reduce the potential for property loss or personal injury as a result of a disaster.

Pasco County currently utilizes comprehensive land use planning, capital improvements planning, and building codes to guide and control development in the County. Upon adoption of the Local Mitigation Strategy Update, these existing mechanisms will have hazard mitigation strategies integrated into them.

The 2004 Local Mitigation Strategy set forth thirteen goals, with multiple objectives, for the county and municipalities as targets to reach. Several of the goals required action through enhanced regulations, building code revisions, or ordinance review and update. Progress has been made in the following areas:

- The county has placed into County Code a requirement that all residential construction in the Hurricane Vulnerability Zone be required to mitigate the impact to shelter availability, either through private sheltering of residents or payment per unit to offset the cost of shelter retrofit.
- The County, in cooperation the Tampa Bay Regional Planning Council, revised the Regional Evacuation Plan in 2006.
- The County and all municipalities participate annually in the required update to the Local Mitigation Strategy.
- The County participated in the Hazard Mitigation Grant Program through the acquisition of nine properties, thereby removing them from further damage.
- Pasco County adopted the 2007 Statewide Building Code.
- Pasco County enacted a Stormwater Utility Fee which is being utilized to repair and maintain existing stormwater systems.
- The Environmental Lands Acquisition and Management Program was established to acquire lands and conservation easements to protect natural resources.
- FEMA approved the Pasco County Debris Management Plan to assist in recovery from disasters.
- Annually, the Capital Improvement Program includes a review of the evacuation demand on traffic management.
- Based on increased mitigation emphasis, the County's CRS rating was increased to a 7.

The adopted Local Mitigation Strategy Update will require that local municipalities address natural hazards in their comprehensive plans and land use regulations. Specifically, one of the goals of the LMS directs County and local governments to

protect the health, safety and welfare of the public from disasters and hazards. The County Growth Management Department will conduct periodic reviews of the County's comprehensive plans and land use policies, analyze any plan amendments, and provide technical assistance to other local municipalities in implementing these requirements. The Pasco County LMS Plan will also be monitored at least annually as a part of the duties of the Hazard Mitigation Committee Chairperson (currently the Emergency Management Director).

Every January, at a minimum, the Hazard Mitigation Committee will convene to review the document, assess the plan against existing local regulations and ordinances, update the project list and correct any discrepancies. Each department requesting grant funding for a project will request a letter of support from the HMC Chairman or his designee. This document will certify that the project is included in the current approved project list. Projects underway or complete, or not requiring grant funding, will require the responsible entity to provide a progress update by phone or email to the HMC Chairman upon commencement and completion of the project.

Central Permitting and Building Inspections Departments are responsible for administering the building codes in the County. They will work with the State Building Code Office to make sure the County adopts, and is enforcing, the minimum standards established in the 2007 Florida Building Code. Local municipalities are responsible for administering the building codes within their jurisdictions. They will work directly with the State Building Code Office to make sure they adopt and are enforcing the minimum standards established in the 2007 Florida Building Code.

The capital improvement planning that occurs in the future will also contribute to the goals in the Local Mitigation Strategy Update. The County will work to secure high-hazard areas for low risk uses.

Within three months of the formal adoption of the LMS Update, the policies listed above will be incorporated into the process of existing planning mechanisms.

Pasco County will review and revise the Local Mitigation Strategy to meet the changing needs of the community. This review process will ensure that pre-disaster planning and mitigation initiatives are attainable and cost effective. The Hazard Mitigation Committee will convene to review, evaluate the effectiveness of, and revise (if deemed necessary) the Local Mitigation Strategy under the following circumstances: a) annually in the month of January, b) when actual events substantially alter or negate parts of the Strategy; c) at the request of a member of the Hazard Mitigation Committee; or d) at the request of a municipality or the local government. Any revisions and updates to the Local Mitigation Strategy will be publicly noticed and presented to the Pasco County Board of County Commissioners and the City Councils by June of each year.

Every 5 years, the committee will undertake an intensive re-write of the Local Mitigation Strategy. It is anticipated that this process will take approximately one year to complete, requiring members to provide detailed information concerning their county or municipal projects, ordinances, progress, and programs. The Office of Emergency Management will compile the information which will be presented to the entire Hazard Mitigation Committee at several publicly noticed meetings for comment and approval. The work in progress will also be posted on the County website for review by all residents. It is expected that a minimum of monthly meetings will be required by either the participating members or the entire Hazard Mitigation Committee to successfully complete the project.

Public participation and interest will be key to producing a quality program for the County and the municipalities to implement. It is anticipated that notices will be placed in newspapers, public meeting places, libraries, websites, and County and municipal buildings to encourage participation in the process. It is also the intent of the members to personally encourage participation through public speaking engagements.

Pasco County's LMS encompasses several jurisdictions. Strategies for hazard mitigation within the County were identified to reduce overall damage in the County. Although these strategies are aimed at reducing overall damage in the County, each jurisdiction will be responsible for pursuing the actions that are relevant to that jurisdiction. The jurisdictions, along with the specific actions they will pursue, are listed as follows:

Dade City: This City will work to redesign its stormwater system and acquire properties to increase retention areas to alleviate flooding.

New Port Richey: This City will work to construct road and sewer improvements in the Lower Coastal Study Area to alleviate flooding.

Port Richey: This City will continue work on developing and maintaining a hurricane/coastal storm early warning system in conjunction with PCEM and USF through the automated buoy system.

San Antonio: This City plans to conduct public outreach programs to inform residents about all types of hazards and disaster preparedness.

St. Leo: This City will work to increase number and capacities of shelters and retrofit them for hurricane preparedness.

Zephyrhills: This City will work to retrofit critical municipal facilities in order to ensure continuation of critical municipal functions in the wake of a disaster event.

In order to ensure public awareness of the area's hazards and the measures necessary to minimize potential damage and injury, education is the key. Public education will

continue to be a key element in the ultimate success of hazard mitigation goals. Residents need to understand the hazards and their role in minimizing the impacts to their families and businesses. It is important for the public to realize that there are actions they can take to protect themselves, such as obtaining the necessary insurance for personal property, especially for renters and mobile home owners. Pasco County will continue to provide information to residents and businesses through speaking engagements, written materials, web site updates and press releases.

There are many reasons for local government and various sectors of the community to make a strong commitment to implement the Local Mitigation Strategy. Communities will have safer neighborhoods, the recovery process will be faster, and access to state and federal funding for mitigation projects will be expedited. During times of normalcy, the mitigation planning process will enable local officials to gain greater coordination of planning efforts, as well as to facilitate compliance with state and federal planning requirements and regulations. The overall objective will be to make Pasco County a safer, more disaster resilient community.

VII. PROGRAMATIC PROGRESS AND IMPLEMENTATION

Since the 2003 LMS approval, Pasco County has made significant progress in implementing programs that support the goals stated in the Community Goals and Objectives and creating more sustainable communities. The following is a sampling of continuing progress.

A. Public Information and Education (Goal #1)

Pasco County actively pursues opportunities to educate the public, through speaking engagements, an interactive website, cable television override capabilities, the government television channel, the Citizens Emergency Response Team (CERT) program, a web based auto-dial telephone information system, mailings, and expos.

B Hurricane Mitigation Ordinance (Goal # 1)

Since 2003, the demand for coastal residential development has increased significantly, causing a potential shortage of shelter space for the population at risk. In 2004 the Pasco County Board of County Commissioner approved a hurricane mitigation ordinance assessing all residential development in the Category 1-3 evacuation zones and all mobile/manufactured home developments throughout the county for the cost of providing increased shelter space. The ordinance also requires a payment of improved traffic signalization on evacuation routes. To date, the County has collected \$ 375,789 for shelter mitigation and has allocated the monies collected as well as any additional funds collected in FY 09 for the regional hurricane shelter construction. The traffic management enhancement fees collected to date amount to \$4,495, and are being held in reserves.

C. Regional Hurricane Shelter (Goal #1)

Utilizing a combination of Federal/State grants, the Hurricane Mitigation Fees, and Local Funds, Pasco County is currently constructing a Regional Hurricane Shelter. The shelter will accommodate approximately 1,000 evacuees, without impacting the public school system. Located in an area currently without a shelter, the building will house a local health department clinic and an indigent care clinic as well as county government functions on a daily basis. Construction will be complete in 2010.

D. Hazardous Incident Team (HIT) (Goal #2)

The Hazardous Incident Team (HIT) is a multi-discipline, multi-jurisdictional response team available to respond to hazardous materials incidents. Originally instituted after 9-11 to respond to the threat of anthrax, the team focus has changed to an all hazards team, chemical, biological, radiological, nuclear, and explosive (CBRNE).

E. Encourage Economic Diversification and Development (Goal #3)

Pasco County has been awarded \$19,495,805 through the Neighborhood Stabilization Program (NSP) for the redevelopment of abandoned and foreclosed homes and residential properties. Funding is being targeted to areas of greatest need, defined as areas of high foreclosures, sub-prime loans and areas that may have a great increase in the number of foreclosures. Although the primary goal of the program is to assist potential homeowners and preserve neighborhoods, this program is also an economic stimulus package creating employment opportunities for the construction trades, real estate businesses, as well as public-private partnerships with local banks and lending institutions.

F. Local Incident Management Team (AHIMT) (Goal #4)

Pasco County is currently training first responders to become a Local Incident Management Team (AHIMT). Utilizing the National Incident Management System (NIMS) training guides, the county and municipal employees participating are able to seamlessly mesh with other county, state, or federal team structures in mitigating an emergency.

G. Property Acquisition (Goal #5)

In 2007/2008, the Hazard Mitigation Grant Program, coupled with local funding allowed Pasco County to purchase nine (9) properties that had suffered repetitive flood damage. The properties are now vacant as the homes have been demolished, and will remain under the ownership of Pasco County as unbuildable. As funding becomes available, some of the properties will be constructed as drainage areas for localized freshwater flooding.

H. Reduce the Cost of Disaster Response and Recovery (Goal #5)

Pasco County Community Development Division was awarded a \$500,000 grant in December, 2007 from the My Safe Florida Home Program to provide assistance to low-income homeowners to harden their homes against wind damage. The program is in progress. As of May, 2008, 20 properties have been retrofitted or are under construction at a cost of \$45,173.66.

The County building codes require compliance with the Coastal Construction Code for all coastal development. Pasco County prohibits expansion/placement of mobile home parks/subdivisions or new development of critical care facilities in the Hurricane Vulnerability Zone. All development or redevelopment in Pasco County must comply with Federal Flood Insurance Regulations. All development or improvements must meet the opening protection standards (windows, doors, and garage doors) as stated in the wind code standards.

I. Environmental Lands Acquisition and Management Program (Goal #6)

The purpose of the program is to acquire lands and conservation easements in order to: protect natural communities, including uplands and wetlands, connect natural linkages, conserve viable populations of native plants and animals, protect habitat for listed species, protect water resources and wetland systems, protect unique natural resources, enhance resource-based recreational opportunities, and expand environmental education opportunities with Pasco County.

Purchases

Upper Pithlachascotee River Preserve – purchased 1/25/07, 111 acres, \$1,116,285 (half reimbursed by State)

Hoover (managed as part of Upper Pithlachascotee River Preserve) – purchased 4/27/07, 11 acres, \$426,500 (half reimbursed by State)

Aripeka Heights – purchased 11/8/07, 210 acres, \$4,350,000 (half reimbursed by SWFWMD)

Pending Purchases

Morsani – 598 acres (214 acres by outright purchase, 384 acres by conservation easement), BCC approved contract on 10/21/08 for \$2,550,000. Expect to close within 3-4 months.

Pasco Palms – 116 acres, contract will go before BCC on 11/25/08

Three others are on the Acquisition List (approved for purchase and in negotiations) and four others are in the review process.

J. Historical Preservation (Goal # 7)

New Port Richey Historical & Cultural Projects

Project Description:

Railroad Square is a \$1 million streetscape project.

The redevelopment includes plans to create a pedestrian-friendly corridor, including street lights, sidewalks and landscaping. This will lead to a growth in business on Nebraska Avenue between Bank and Adams Streets. Planners hope to make Nebraska an extension of Main Street, which connects to the Pithlachascotee River and Sims Park. Completed in 2008.

Hacienda



Project Description:

This project is for the renovation and restoration of the former hotel, The Hacienda, which is listed on the National Register of Historic places, and was destined to become the next Hollywood, led by silent film star, Thomas Meighan. Unfortunately the Great Depression prevented that and the Hacienda changed hands numerous times since the 1920's.

The CRA Board of Directors (City Council) voted in favor of an Easterly expansion to the Hacienda Hotel at their June 12, 2007 meeting. Community Development Partners, Inc. and Three Oaks Hospitality, Inc. plan to revitalize The Hacienda Hotel for use as an upscale lodge, conference center and restaurant. The Hacienda Hotel, owned by the City, is designated as a historic structure. The City envisions the building to attract people to New Port Richey as a destination stop. The City and the Developer will proceed with the refinement of architectural plans and the drafting of a development agreement for this project.

James E. Grey Preserve

Project Description:

The James E. Grey Preserve, located on Plathe Road and Baker Road is an 80-acre nature park (of which 50 acres are protected wetlands) that officially opened to the public in 2003.

The city bought the land in 1997, paying \$120,000 of the \$775,000 purchase price and funded in majority by a state trust that buys environmentally sensitive land.

The Park is named after the patriarch of the Grey family. John Grey brokered the deal between the city and a New York company for the land.

An archaeological survey done for the city found pottery fragments and tool pieces from what was probably a seasonal hunting camp used by prehistoric American Indians dating as far back as 2,500 B.C. Also, The West Pasco Audubon Society has found 140 species of birds in the preserve

This projects seeks to enhance and enrich this nature preserve into a park-like setting for the enjoyment of the public. In a four-phase development process.

Estimated

Cost:

\$1,000,000



K. Stormwater Management Utility Program (Goal # 8)

Pasco County's Stormwater Management Plan identifies and recommends solutions to stormwater problems. Programs that will control development in the 25 and 100 year floodplain, require lot-grading plans which address drainage with each building permit, and require all new development and redevelopment to regulate the rate and volume of stormwater runoff are addressed in the Comprehensive Plan, the Land Development Code and the County Building Code

Instituted in 2007, the Stormwater Management Utility Fee manages Pasco County's Stormwater Utility in a cost effective and professional manner. The fee was instituted to fulfill all requirements of the National Pollutant Discharge Elimination System (NPDES). The permit was initially issued to Pasco County by the U.S. Environmental Protection Agency (USEPA) but now is administered by the Florida Department of Environmental Protection Agency. In conjunction with the Road and Bridge Department, the Stormwater Management Division utilizes a portion of the fee to improve infrastructure maintenance in the County, Manage large-scale, watershed models and the Federal Emergency Management Agency (FEMA) flood-mapping update. The fund also supports the design and construct flood-control projects and improvements to surface water quality in the County as mandated by the Florida Department of Environmental Protection and the U.S. Environmental Protection Agency.

L. Reduce Flooding and Construction and/or Hardening of Critical Facilities (Goals # 9 and #10)

Since 2003, Pasco County has concentrated on hardening of critical facilities throughout the county. The City of New Port Richey has constructed a new Police Station and a Recreation Complex which will also double as an emergency shelter. The City of Zephyrhills constructed the new Police Station to meet shelter standards. Pasco County has hardened nine (9) fire stations and the Training Center, at a cost of approximately \$430,000 in local funding. Eight new fire stations have been constructed to the meet or exceed the current wind standards. Dade City installed window protection to their City Hall Annex. Port Richey and Pasco County cooperated with the University of South Florida to install buoys off the coast which are linked to a satellite to detect extreme tidal surge. The District School Board of Pasco County has constructed fifteen new schools to meet the Enhanced Hurricane Protection Area standards using local funding, and retro-fitted one existing high school for use as a shelter.

M. Minimize the Effects of Disease Outbreak (Goal # 11)

The Pasco County Public Health Department has participated in the Cities Readiness Initiative (CRI) to partner with non-traditional agencies in preparing to respond to and mitigate a pandemic event. The County's Pandemic Flu Plan was approved locally as well as regionally in December, 2008.

N. Regional Response Team (RRT) (Goal # 12)

Pasco County participates with the surrounding counties in a Regional Response Team to respond to incidents within the region, or through the State as a team to deploy wherever necessary. This multi-discipline team is funded under Homeland Security by the Regional Domestic Security Task Force (RDSTF) and the Urban Area Security Initiative (UASI).

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VIII. Deleted, Deferred and Completed Projects

Appendix E contains a list of projects which have been deleted, or completed. The projects which have been deleted required partnerships with homeowners or private entities which no longer wish to participate. The completed projects are also included in the table. Deferred projects remain on the active project listing as funding sources are not available.

Appendix A: Goals and Objectives

Goal 01 PROTECT THE HEALTH, SAFETY AND WELFARE OF THE PUBLIC

Objective 01.1 Inform and educate the public about potential hazards and property protection measures

Hazard Mitigated All Hazards

Action/Program DW : Pasco County Educational Outreach Program
Agency/Department Pasco County
Time Frame More than 12 Months
Possible Funding Sources Emergency Management Preparedness and Assistance Trust Fund (EMPATF)
Progress Toward Completion Application to be submitted for EMPATF Grant. Received weather radios from DEM at no cost to County, a distribution plan is being developed.
Date Updated 1/08

Hazard Mitigated Hurricanes/ Tropical Storms, Tornados, Nuclear Power Plant Incident

Action/Program EK : Residential Safe Rooms
Agency/Department Countywide
Time Frame More than 12 Months
Possible Funding Sources Emergency Management Preparedness and Assistance Trust Fund; Hazard Mitigation Grant Program; Flood Mitigation Assistance Program
Progress Toward Completion Project costs and benefits will vary by residence. This is a continuing effort to encourage homeowners to construct safe rooms.
Date Updated 1/08

Hazard Mitigated Multiple Hazards

Action/Program EP : San Antonio Outreach Educational Program
Agency/Department San Antonio and St. Leo
Time Frame More than 12 Months
Possible Funding Sources Emergency Management Preparedness and Assistance Trust Fund; Environmental Education Grant
Progress Toward Completion Brochures and flyers concerning hazards and disaster preparedness are available at City Halls. Plan is to expand the program in the future by adding to selection and types of brochures and flyers available while addressing an all hazards environment. Some information has been printed at the Cities cost.
Date Updated 1/09

Goal 01 PROTECT THE HEALTH, SAFETY AND WELFARE OF THE PUBLIC

Hazard Mitigated All Hazards

Action/Program GE : Special Needs Population Software
Agency/Department Pasco County Emergency Management
Time Frame Less than 12 Months
Possible Funding Sources EMPATF
Progress Toward Completion
Date Added 11/08

Objective 01.2 Ensure new development and redevelopment complies with all applicable federal, state and local regulations

Hazard Mitigated Floods

Action/Program BT : Flood Insurance Rate Maps
Agency/Department St. Leo
Time Frame More than 12 Months
Possible Funding Sources Emergency Management Preparedness and Assistance Trust Fund
Progress Toward Completion Work is currently underway with SWFWMD and Pasco County to develop new Flood

Insurance

Rate Maps (FIRM). Upon completion of effort, St. Leo will receive flood maps for the township. New FIRM Maps are now anticipated to be released during 2009.

Date Updated 1/09

Objective 01.3 Provide sufficient shelter space to satisfy in-County demand

Hazard Mitigated Hurricanes/ Tropical Storms

Action/Program AZ : Community Shelter Retrofits in Recreational Vehicle Parks
Agency/Department Pasco County Emergency Management
Time Frame More than 12 Months
Possible Funding Sources Emergency Management Preparedness and Assistance Trust Fund; Hazard Mitigation Grant Program; Flood Mitigation Assistance Program
Progress Toward Completion Project costs and benefits will vary by community. There are approximately 350+ parks in the County. This is an ongoing initiative and will continue to be stressed in speaking engagements Emergency Management staff provides to citizens located in manufactured homes and RV Parks.

Date Updated 1/08

Goal 01 PROTECT THE HEALTH, SAFETY AND WELFARE OF THE PUBLIC

Hazard Mitigated Hurricanes/ Tropical Storms

Action/Program EG : Public Hurricane Shelter Retrofit Projects
Agency/Department Pasco County Emergency Management, Dade City, New Port Richey, Port Richey, St. Leo, San Antonio, Zephyrhills
Time Frame More than 12 Months
Possible Funding Sources Emergency Management Preparedness and Assistance Trust Fund; Hazard Mitigation Grant Program
Progress Toward Completion HB 7121 awarded grants for two generators for Pasco County. The generators are scheduled to be installed at two schools by June in 2007. Funds are pending for additional schools to receive generators. Funding fell short and only one school Wiregrass High is funded currently, additional schools pending further funding.
Date Updated 1/08

Hazard Mitigated Hurricanes/ Tropical Storms

Action/Program EH : Public Hurricane Shelter Survey Project
Agency/Department Pasco County Emergency Management, Dade City, New Port Richey, Port Richey, St. Leo, San Antonio, Zephyrhills
Time Frame
Possible Funding Sources Emergency Management Preparedness and Assistance Trust Fund; Hazard Mitigation Grant Program
Progress Toward Completion Pasco County Surveys will continue through FY 08.
Date Updated 1/08

Hazard Mitigated Hurricanes

Action/Program EJ : Regional Hurricane Shelter
Agency/Department Pasco County Facilities and Emergency Management
Time Frame More than 12 Months
Possible Funding Sources HMGP
Progress Toward Completion Design of shelter is currently underway. Federal funding is under re-evaluation as new code (FEMA 361) requires 200 mph wind speed which significantly increases cost to County.
Date Updated 1/08

Goal 02 MINIMIZE THE EFFECTS OF HAZARDOUS MATERIALS INCIDENTS

Objective 02.2 Maintain a capability to respond to hazardous materials incidents

Hazard Mitigated All Hazards

Action/Program FZ : Hazardous Incident Team
Agency/Department Pasco County Emergency Management
Time Frame More than 12 Months
Possible Funding Sources
Progress Toward Completion This is a continuous project.
Date Added 11/08

Goal 03 ENCOURAGE ECONOMIC DIVERSIFICATION AND DEVELOPMENT

Objective 03.1 Assist and encourage new economic development and post-disaster redevelopment

Hazard Mitigated All Hazards

Action/Program FX : Post-disaster Redevelopment for Business and Industry
Agency/Department Pasco County Economic Development Council
Time Frame More than 12 Months
Possible Funding Sources
Progress Toward Completion
Date Added 11/08

Goal 04 MAINTAIN HIGH STATE OF PREPAREDNESS/COORDINATION TO MITIGATE AND RESPOND TO DISASTERS

Objective 04.1 Develop the capacity to mitigate, prepare, respond, and recover from all hazards

Hazard Mitigated All Hazards

Action/Program FU : Community Emergency Response Teams
Agency/Department Pasco County Emergency Management
Time Frame More than 12 Months
Possible Funding Sources Citizen Corps Grant Program
Progress Toward Completion This is an ongoing program. Pasco County Emergency Management will continue to hold CERT training regularly.
Date Updated 11/08

Goal 05 REDUCE THE COST OF DISASTER RESPONSE AND RECOVERY

Objective 05.2 Advocate property acquisition or retro-fitting for repetitive loss properties

Hazard Mitigated Floods

Action/Program AC : Anclote Project Area
Agency/Department Pasco County Development Services, Emergency Management
Time Frame More than 12 Months
Possible Funding Sources Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Pre-Disaster Mitigation Program
Progress Toward Completion Dec. 1999 HMGP Grant 1195-096 approved for \$47,846 for elevation of 3365 Elfers Pkwy. Pursuit of homeowners to elevate in this area will continue as funding is made available for modified elevations.
Date Updated 1/09

Hazard Mitigated Floods

Action/Program AD : Aripeka Project Area
Agency/Department Pasco County Development Services
Time Frame More than 12 Months
Possible Funding Sources Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Pre-Disaster Mitigation Program
Progress Toward Completion Pursuit of homeowners to elevate in this area will continue as funding is made available for modified elevations.
Date Updated 1/09

Hazard Mitigated Floods

Action/Program AF : Baillies Bluff Project Area
Agency/Department Pasco County Development Services
Time Frame More than 12 Months
Possible Funding Sources Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Pre-Disaster Mitigation Program
Progress Toward Completion Pursuit of homeowners to elevate in this area will continue as funding is made available for modified elevations.
Date Updated 1/09

Hazard Mitigated Floods

Action/Program AH : Bass Lake Drainage Area Phase I
Agency/Department Pasco County Development Services
Time Frame More than 12 Months
Possible Funding Sources Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Pre-Disaster Mitigation Program
Progress Toward Completion 2004 FMAP Grant Award made for 8526 Cameo Dr. which was completed in August 2006. Pursuit of homeowners to elevate in this area will continue as funding is made available for modified elevations
Date Updated 1/09

Goal 05 REDUCE THE COST OF DISASTER RESPONSE AND RECOVERY

Hazard Mitigated Floods

Action/Program GC : Dunn Retrofit
Agency/Department New Port Richey
Time Frame Less than 12 Months
Possible Funding Sources Repetitive Flood Claims Mitigation Grant
Progress Toward Completion
Date Added 11/08

Hazard Mitigated Floods

Action/Program BR : Elevation of Putnam Dwelling
Agency/Department New Port Richey
Time Frame More than 12 Months
Possible Funding Sources Flood Mitigation Act
Progress Toward Completion FMA grant awarded. Dwelling leveled, land cleared and pilings installed during 2006. Remainder of elevation project to be completed during 2007. Extended until 2009.
Date Updated 12/08

Hazard Mitigated Floods

Action/Program CA : Green Key Project Area Phase I
Agency/Department Pasco County Development Services and New Port Richey
Time Frame More than 12 Months
Possible Funding Sources Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Pre-Disaster Mitigation Program
Progress Toward Completion 1998 FMAP - 6719 Manor Beach RD COMPLETE; 1999 FMAP - 6727 Manor Beach RD COMPLETE; 6744 Arroyo DR (Capraro) DROPPED OUT; 6519 Oelsner ST (Gause). Pursuit of homeowners to elevate in this area will continue as funding is made available for modified elevations.
Date Updated 1/09

Hazard Mitigated Floods

Action/Program CJ : Hudson Project Area
Agency/Department Pasco County Development Services
Time Frame More than 12 Months
Possible Funding Sources Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Pre-Disaster Mitigation Program
Progress Toward Completion Pursuit of homeowners to elevate in this area will continue as funding is made available for modified elevations. On January 27, 2009, the County was approved for a 2008 FMAP Grant Award for 6709 Clark Street. The homeowner is reviewing the contract to determine if they wish to proceed with the project.
Date Updated 1/09

Goal 05 REDUCE THE COST OF DISASTER RESPONSE AND RECOVERY

Hazard Mitigated Floods

Action/Program EB : Pithlachascotee Project Area
Agency/Department Pasco County Development Services
Time Frame More than 12 Months
Possible Funding Sources Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Pre-Disaster Mitigation Program
Progress Toward Completion Pursuit of homeowners to elevate in this area will continue as funding is made available for modified elevations.
Date Updated 1/09

Hazard Mitigated Floods, Coastal Flooding

Action/Program EE : Port Richey Repetitive Loss Mitigation 2007
Agency/Department Port Richey
Time Frame More than 12 Months
Possible Funding Sources
Progress Toward Completion 75% through construction
Date Updated 12/08

Hazard Mitigated Floods, Coastal Flooding

Action/Program EF : Port Richey Repetitive Loss Mitigation 2008
Agency/Department Port Richey
Time Frame More than 12 Months
Possible Funding Sources
Progress Toward Completion Awaiting funding
Date Updated 12/08

Hazard Mitigated Floods

Action/Program GP : Port Richey RLP Elevations
Agency/Department Port Richey
Time Frame More than 12 Months
Possible Funding Sources Flood Mitigation Assistance Program, Hazard Mitigation Grant Program
Progress Toward Completion
Date Added 12/08

Goal 05 REDUCE THE COST OF DISASTER RESPONSE AND RECOVERY

Hazard Mitigated Floods

Action/Program FD : West Port Project Area Phase I
Agency/Department Pasco County Development Services
Time Frame More than 12 Months
Possible Funding Sources Community Development Block Grant; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Pre-Disaster Mitigation Program
Progress Toward Completion Pursuit of homeowners to elevate in this area will continue as funding is made available for modified elevations.
Date Updated 1/09

Hazard Mitigated Floods

Action/Program FI : Withlacoochee Project Area
Agency/Department Pasco County Development Services
Time Frame More than 12 Months
Possible Funding Sources Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Pre-Disaster Mitigation Program
Progress Toward Completion Pursuit of homeowners to elevate in this area will continue as funding is made available for modified elevations.
Date Updated 1/09

Objective 05.3 Establish and implement a plan for post-disaster temporary housing

Hazard Mitigated All Hazards

Action/Program FW : Post-disaster Temporary Housing
Agency/Department Pasco County Emergency Management
Time Frame More than 12 Months
Possible Funding Sources Funding is not necessary to develop the addition to the ordinance.
Progress Toward Completion
Date Added 11/08

Objective 05.4 Efficiently manage all local disasters

Hazard Mitigated All Hazards

Action/Program GA : Local Incident Management Team
Agency/Department Pasco County Emergency Management
Time Frame More than 12 Months
Possible Funding Sources
Progress Toward Completion This is a continuous project.
Date Added 11/08

Goal 06 ENCOURAGE THE PROTECTION OF NATURAL RESOURCES

Objective 06.1 Partner with the State and other agencies in the acquisition of lands and/or development rights for environmental protection

Hazard Mitigated Coastal Flooding, Hurricanes/ Tropical Storms, Coastal/ River Erosion, Wildfires

Action/Program GX : Dutchmen Key Acquisition

Agency/Department Pasco County ELAMP

Time Frame More than 12 Months

Possible Funding Sources County Sales Tax, Florida Communities Trust, Florida Forever, Conservation and Recreation Lands, Watershed Protection and Flood Prevention

Progress Toward Completion

Date Added 12/08

Objective 06.2 Protect and restore wetlands and critical upland habitats

Hazard Mitigated Floods, Drought

Action/Program GW : Cypress Creek Acquisition

Agency/Department Pasco County ELAMP

Time Frame Less than 12 Months

Possible Funding Sources County Sales Tax

Progress Toward Completion

Date Added 12/08

Objective 06.4 Provide and encourage preservation of open space

Hazard Mitigated Coastal Flooding, Hurricanes/ Tropical Storms, Coastal/ River Erosion, Wildfires

Action/Program GT : Boger Coastal Acquisition

Agency/Department Pasco County ELAMP

Time Frame More than 12 Months

Possible Funding Sources County Sales Tax, Wetland Mitigation, SWFWMD, Florida Communities Trust, Conservation and Recreation Lands, Watershed Protection and Flood Prevention

Progress Toward Completion

Date Added 12/08

Hazard Mitigated Floods, Wildfires

Action/Program GU : Castriota Acquisition

Agency/Department Pasco County ELAMP

Time Frame More than 12 Months

Possible Funding Sources County Sales Tax, Florida Communities Trust, Florida Forever, Conservation and Recreation Lands, Watershed Protection and Flood Prevention

Progress Toward Completion

Date Added 12/08

Goal 06 ENCOURAGE THE PROTECTION OF NATURAL RESOURCES

Hazard Mitigated Floods, Wildfires

Action/Program GV : Crossbar-AI Bar Ranch Acquisition
Agency/Department Pasco County ELAMP
Time Frame More than 12 Months
Possible Funding Sources County Sales Tax, Wetland Mitigation, SWFWMD, Florida Forever, Conservation and Recreation Lands, Watershed Protection and Flood Prevention
Progress Toward Completion
Date Added 12/08

Hazard Mitigated Floods, Drought, Wildfires

Action/Program GY : Hidden River South Acquisition
Agency/Department Pasco County ELAMP
Time Frame Less than 12 Months
Possible Funding Sources County Sales Tax, Florida Communities Trust, SWFWMD
Progress Toward Completion
Date Added 12/08

Hazard Mitigated Floods, Wildfires

Action/Program GZ : Horton-Beacon Point Acquisition
Agency/Department Pasco County ELAMP
Time Frame More than 12 Months
Possible Funding Sources Florida Communities Trust, Florida Forever, Conservation and Recreation Lands, Watershed Protection and Flood Prevention
Progress Toward Completion
Date Added 12/08

Hazard Mitigated Floods, Wildfires

Action/Program HA : Malhotra Acquisition
Agency/Department Pasco County ELAMP
Time Frame More than 12 Months
Possible Funding Sources County Sales Tax, Florida Communities Trust, Florida Forever, Conservation and Recreation Lands, Watershed Protection and Flood Prevention, Wetland Mitigation
Progress Toward Completion
Date Added 12/08

Goal 06 ENCOURAGE THE PROTECTION OF NATURAL RESOURCES

Hazard Mitigated Coastal Flooding, Coastal/ River Erosion, Hurricanes/ Tropical Storms, Wildfires

Action/Program HB : Mickler Coastal Acquisition

Agency/Department Pasco County ELAMP

Time Frame Less than 12 Months

Possible Funding Sources County Sales Tax, Florida Communities Trust, SWFWMD, Conservation and Recreation Lands, Watershed Protection and Flood Prevention

Progress Toward Completion

Date Added 12/08

Hazard Mitigated Floods, Drought, Wildfires

Action/Program HC : Morsani Ranch Acquisition

Agency/Department Pasco County ELAMP

Time Frame Less than 12 Months

Possible Funding Sources County Sales Tax, Florida Communities Trust, SWFWMD, Conservation and Recreation Lands, Watershed Protection and Flood Prevention

Progress Toward Completion

Date Added 12/08

Hazard Mitigated Coastal Floods, Coastal/ River Erosion, Hurricanes/ Tropical Storms, Wildfires

Action/Program HD : Pasco Palms Acquisition

Agency/Department Pasco County ELAMP

Time Frame Less than 12 Months

Possible Funding Sources County Sales Tax, Florida Communities Trust, Conservation and Recreation Lands, Watershed Protection and Flood Prevention

Progress Toward Completion

Date Added 12/08

Hazard Mitigated Coastal Flooding, Coastal Erosion, Hurricanes/ Tropical Storms, Wildfires

Action/Program HE : Rocky Creek Acquisition

Agency/Department Pasco County ELAMP

Time Frame More than 12 Months

Possible Funding Sources County Sales Tax, Florida Communities Trust, Florida Forever, Conservation and Recreation Lands, Watershed Protection and Flood Prevention

Progress Toward Completion

Date Added 12/08

Goal 06 ENCOURAGE THE PROTECTION OF NATURAL RESOURCES

Hazard Mitigated Floods, Wildfires

Action/Program HF : Tierra del Sol Acquisition

Agency/Department Pasco County ELAMP

Time Frame More than 12 Months

Possible Funding Sources County Sales Tax, Wetland Mitigation, Conservation and Recreation Lands, Watershed Protection and Flood Prevention

Progress Toward Completion

Date Added 12/08

Goal 07 MINIMIZE THE EFFECTS OF DISASTERS ON HISTORICAL AND CULTURAL RESOURCES

There are no active projects or programs for this goal. Please see Section VII of the main document for programmatic progress on this goal.

Goal 08 STORMWATER IMPROVEMENT

Objective 08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff

Hazard Mitigated Floods

Action/Program AA : 10th Street and Willingham Avenue Stormwater Project

Agency/Department Dade City

Time Frame More than 12 Months

Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program

Progress Toward Completion Awaiting release of new FIRMs before attempting to determine redesigned stormwater system for this project. This project will be reviewed during spring 2008 and is possible item for FY 2008-2009 budget. FIRMs should be released in late 2009.

Date Updated 12/08

Hazard Mitigated Floods

Action/Program AE : Bahia Acres Loop Project

Agency/Department Pasco County Stormwater Management

Time Frame More than 12 Months

Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program

Progress Toward Completion SWFWMD and Pasco County study due 02/09. BMPs due 2/08.

Date Updated 11/08

Goal 08 STORMWATER IMPROVEMENT**Hazard Mitigated** Floods

Action/Program AG : Barcelona Road Project
Agency/Department Pasco County Stormwater Management
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program
Progress Toward Completion SWFWMD/Pasco County funded study. \$1,400,000 completion not yet scheduled.
Date Updated 11/08

Hazard Mitigated Floods

Action/Program AI : Bass Lake Drainage Area Phase II
Agency/Department Pasco County Stormwater Management
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program
Progress Toward Completion Permit issued 12/06. Project scheduled for bid advertisement 11/08. Construction to be completed in 2009.
Date Updated 11/08

Hazard Mitigated Floods

Action/Program AK : Bear Creek Watershed Project, Phase II
Agency/Department Pasco County Stormwater Management
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program
Progress Toward Completion Project not active at this time.
Date Updated 11/08

Hazard Mitigated Floods

Action/Program AL : Beauchamp Retention Ponds Stormwater Project
Agency/Department Dade City
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program
Progress Toward Completion Awaiting release of new FIRMs before attempting to determine redesigned stormwater system for this project. Project will be evaluated after view of new FIRMs. FIRMs should be released in late 2009.
Date Updated 12/08

Goal 08 STORMWATER IMPROVEMENT

Hazard Mitigated Floods

Action/Program AP : Bexley Road/Wisteria Loop Project
Agency/Department Pasco County Stormwater Management
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program

Progress Toward Completion Ditches have been cleaned out to mitigate flooding. Remainder of project has not been scheduled.

Date Updated 11/08

Hazard Mitigated Floods

Action/Program AQ : Bosley Drive/Lawless Road Project
Agency/Department Pasco County Stormwater Management
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program

Progress Toward Completion Project has not been scheduled nor funding determined.

Date Updated 11/08

Hazard Mitigated Floods

Action/Program AU : Brightwell Drive/Gerard Lane Project
Agency/Department Pasco County Stormwater Management
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program

Progress Toward Completion Project not scheduled yet.

Date Updated 11/08

Hazard Mitigated Floods

Action/Program AW : Carricker Road Project
Agency/Department Pasco County Stormwater Management
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program

Progress Toward Completion SWFWMD and Pasco County study underway. BMPs due 2/09.

Date Updated 11/08

Goal 08 STORMWATER IMPROVEMENT

Hazard Mitigated Floods

Action/Program BC : Cypress Creek-South Lake Watershed Management Plan Implementation
Agency/Department Pasco County
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant Program; Emergency Management Preparedness and Assistance Trust Fund; Nonpoint Source Implementation Grant; Watershed Protection & Flood.

Progress Toward Completion Stormwater Management Master Plan BMPs due by 2/09.
Date Updated 11/08

Hazard Mitigated Floods

Action/Program BD : Cypress Estates Project Area
Agency/Department Pasco County Stormwater Management
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program

Progress Toward Completion Master Plan jointly funded with SWFWMD. BMPs due 2/09.
Date Updated 11/08

Hazard Mitigated Floods

Action/Program BE : Dade City Stormwater Management Plan
Agency/Department Dade City and Pasco County Stormwater Management
Time Frame More than 12 Months
Possible Funding Sources Emergency Management Preparedness and Assistance Trust Fund
Progress Toward Completion Work underway to develop 5 year capital improvement plan.
Date Updated 12/08

Hazard Mitigated Floods

Action/Program BI : Dade Oaks Project, Phase II, 10th Street and Whitehouse Avenue Intersection
Agency/Department Dade City and Pasco County Stormwater Management
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program

Progress Toward Completion Project is not active at this time. Awaiting release of new FIRM Maps before attempting to determine redesigned stormwater system for this project.
Date Updated 11/08

Goal 08 STORMWATER IMPROVEMENT

Hazard Mitigated Floods

Action/Program BL : Double Hammock Creek Watershed Management Plan Implementation
Agency/Department Pasco County
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant Program; Emergency Management Preparedness and Assistance Trust Fund; Nonpoint Source Implementation Grant; Watershed Protection & Flood.

Progress Toward Completion To be scheduled. Stormwater Management Master Plan will begin development 2/08 and be completed by 2/10.

Date Updated 1/08

Hazard Mitigated Floods

Action/Program GI : Drainage Improvements - River Gulf, Grand & Bay
Agency/Department Port Richey
Time Frame Less than 12 Months
Possible Funding Sources Capital Grants for Clean Water State Revolving Funds, Flood Mitigation Assistance Program, Hazard Mitigation Grant Program, Nonpoint Source Implementation Grants, Watershed Protection & Flood Prevention Program

Progress Toward Completion

Date Added 11/08

Hazard Mitigated Floods

Action/Program GJ : Drainage Improvements - Tabor, Papaya, Cormel, Quist, Wilkins, & Berlin
Agency/Department Port Richey
Time Frame Less than 12 Months
Possible Funding Sources Capital Grants for Clean Water State Revolving Funds, Flood Mitigation Assistance Program, Hazard Mitigation Grant Program, Nonpoint Source Implementation Grants, Watershed Protection & Flood Prevention Program

Progress Toward Completion

Date Added 11/08

Hazard Mitigated Floods

Action/Program GK : Drainage Improvements - Treadway
Agency/Department Port Richey
Time Frame Less than 12 Months
Possible Funding Sources Capital Grants for Clean Water State Revolving Funds, Flood Mitigation Assistance Program, Hazard Mitigation Grant Program, Nonpoint Source Implementation Grants, Watershed Protection & Flood Prevention Program

Progress Toward Completion

Date Added 11/08

Goal 08 STORMWATER IMPROVEMENT

Hazard Mitigated Floods

Action/Program BM : Drexel Road Project
Agency/Department Pasco County Stormwater Management
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program

Progress Toward Completion SWFWMD/Pasco County study underway. BMPs due 2/09.
Date Updated 11/08

Hazard Mitigated Floods

Action/Program BN : Duck Lake Regional Retention System
Agency/Department Pasco County Stormwater Management
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants

Progress Toward Completion Funding needs to be sourced. Stormwater Management Master Plan underway. Due to be completed 2nd Quarter 2009. Possible location identified.
Date Updated 11/08

Hazard Mitigated Floods

Action/Program BO : Duck Lake Watershed Management Plan Implementation
Agency/Department Pasco County
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant Program; Emergency Management Preparedness and Assistance Trust Fund; Nonpoint Source Implementation Grant; Watershed Protection & Flood.

Progress Toward Completion Study underway due by 06/01/09.
Date Updated 11/08

Hazard Mitigated Floods

Action/Program BP : Dupree Gardens Project Area
Agency/Department Pasco County Stormwater Management
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program

Progress Toward Completion SWFWMD and Pasco County study underway. BMPs due 2/09.
Date Updated 11/08

Goal 08 STORMWATER IMPROVEMENT

Hazard Mitigated Floods

Action/Program BQ : East Zephyrhills Watershed Management Plan Implementation
Agency/Department Pasco County
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant Program; Emergency Management Preparedness and Assistance Trust Fund; Nonpoint Source Implementation Grant; Watershed Protection & Flood.

Progress Toward Completion Final Stormwater Management Master Plan due by 4/09. BMPs delivered. First group of BMPs to be designed and permitted in 2009. Construction schedule not determined

Date Updated 11/08

Hazard Mitigated Floods

Action/Program BV : Foxwood Subdivision
Agency/Department Pasco County Stormwater Management
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program

Progress Toward Completion SWFWMD and Pasco County study began 1/07. Study to be completed by late 2010.

Date Updated 11/08

Hazard Mitigated Floods

Action/Program CB : Griffin Park Project
Agency/Department Pasco County Stormwater Management
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program

Progress Toward Completion Project not active at this time.

Date Updated 11/08

Hazard Mitigated Floods

Action/Program CC : Gulfside Estates/Gulfside Acres Project Area
Agency/Department Pasco County Stormwater Management
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program

Progress Toward Completion Project is not active at this time.

Date Updated 11/08

Goal 08 STORMWATER IMPROVEMENT

Hazard Mitigated Floods

Action/Program CD : Hale Road Project
Agency/Department Pasco County Stormwater Management
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program
Progress Toward Completion SWFWMD and Pasco County study due to be completed in 2009.
Date Updated 11/08

Hazard Mitigated Floods

Action/Program CE : Hammock Creek Watershed Management Plan Implementation
Agency/Department Pasco County
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant Program; Emergency Management Preparedness and Assistance Trust Fund; Nonpoint Source Implementation Grant; Watershed Protection & Flood.
Progress Toward Completion BMPs completed. Engineering of first BMP to begin by 01/09.
Date Updated 1/08

Hazard Mitigated Floods

Action/Program CF : Holiday Hills Project Area
Agency/Department Pasco County Stormwater Management
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program; CDBG
Progress Toward Completion Project on hold. Pond major cleaning completed 10/08
Date Updated 11/08

Hazard Mitigated Floods

Action/Program CG : Hopson Road Project
Agency/Department Pasco County Stormwater Management
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program
Progress Toward Completion SWFWMD and Pasco County study underway due for completion in 2009.
Date Updated 11/08

Goal 08 STORMWATER IMPROVEMENT

	Hazard Mitigated	Floods
	Action/Program	CH : Howard Avenue Stormwater Project
	Agency/Department	Dade City
	Time Frame	More than 12 Months
	Possible Funding Sources	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program
included	Progress Toward Completion	Project was divided into two phases. Phase I was completed by the City. This phase the installation of a 24" RCP along Howard Ave and the construction of a retention pond. Phase II will include the upgrade of the stormwater pump station and outfall.
	Date	Updated 12/08
	Hazard Mitigated	Floods
	Action/Program	CN : Jarvis Street Project
	Agency/Department	Pasco County Stormwater Management
	Time Frame	More than 12 Months
	Possible Funding Sources	Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program
	Progress Toward Completion	Project not active at this time. Pump is scheduled to be replaced 2009.
	Date	Updated 11/08
	Hazard Mitigated	Floods
	Action/Program	CP : Keystone Drive Project
	Agency/Department	Pasco County Stormwater Management
	Time Frame	More than 12 Months
	Possible Funding Sources	Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program
	Progress Toward Completion	Project is not active at this time.
	Date	Updated 11/08

Goal 08 STORMWATER IMPROVEMENT

Hazard Mitigated Floods

Action/Program CV : Lake Padgett Estates Project Area
Agency/Department Pasco County Stormwater Management
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program

Progress Toward Completion Project underway. Project will be continuing, since this is a continuous maintenance activity.

Date Updated 11/08

Hazard Mitigated Floods

Action/Program CW : Lake Patience Road Project
Agency/Department Pasco County Stormwater Management
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program

Progress Toward Completion Project is not active at this time.

Date Updated 11/08

Hazard Mitigated Floods

Action/Program CX : Lake Zephyr Watershed Project
Agency/Department Pasco County Stormwater Management
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant Program; Emergency Management Preparedness and Assistance Trust Fund; Nonpoint Source Implementation Grant; Watershed Protection & Flood Prevention

Progress Toward Completion Phases I and II designed and permitted. Funding request to be submitted to continue project in FY 07. Phases I and II permits expired. Repermitting to begin by 01/09.

Date Updated 11/08

Goal 08 STORMWATER IMPROVEMENT

Hazard Mitigated Floods

Action/Program CY : Lake Zephyr/Meadowlawn Subdivision Drainage and Retention Project
Agency/Department Zephyrhills and Pasco County Stormwater Management
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program

Progress Toward Completion Lake Pasadena SubBasin of the East Zephyrhills Basin is currently being studied by URS and the results of the study are due in late 2008 or early 2009. Study is being co-funded by Pasco County and SWFWMD.

Date Updated 11/08

Hazard Mitigated Floods

Action/Program DB : Lost Lake Restoration Project
Agency/Department Pasco County Emergency Management and Stormwater Management
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program

Progress Toward Completion Received HMGP Award Oct 1999 for El Nino (DR-1195). Properties acquired and demolished. Phase I and II COMPLETED. Phase III, the construction of additional retention facilities, has not been scheduled yet, and funding for the project has not been determined.

Date Updated 1/09

Hazard Mitigated Floods

Action/Program DC : Louis Avenue Project
Agency/Department Pasco County Stormwater Management
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program

Progress Toward Completion Project not active at present time.

Date Updated 11/08

Goal 08 STORMWATER IMPROVEMENT

Hazard Mitigated Floods

Action/Program DD : Lower Coastal Watershed Management Plan Implementation
Agency/Department Pasco County
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant Program; Emergency Management Preparedness and Assistance Trust Fund; Nonpoint Source Implementation Grant; Watershed Protection & Flood.

Progress Toward Completion Stormwater Management Master Plan underway. Completion scheduled for 01/11.
Date Updated 11/08

Hazard Mitigated Floods

Action/Program DF : Main Street Drainage Project
Agency/Department New Port Richey and Pasco County Stormwater Management
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program

Progress Toward Completion \$10,000 in drainage work completed. Further activity between Congress and Rowen Roads planned for future.
Date Updated 1/09

Hazard Mitigated Floods

Action/Program DL : Moog Road/Pinehurst Drive Project
Agency/Department Pasco County Stormwater Management
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program

Progress Toward Completion Project is not active at this time.
Date Updated 11/08

Hazard Mitigated Floods

Action/Program DS : New River Ranchettes Project Area
Agency/Department Pasco County Stormwater Management
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program

Progress Toward Completion SWFWMD and Pasco County study underway and conclude by 2011.
Date Updated 11/08

Goal 08 STORMWATER IMPROVEMENT

Hazard Mitigated Floods

Action/Program DT : New River Watershed Management Plan Improvement
Agency/Department Pasco County
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant Program; Emergency Management Preparedness and Assistance Trust Fund; Nonpoint Source Implementation Grant; Watershed Protection & Flood.

Progress Toward Completion Stormwater Management Master Plan development began 6/07 and is scheduled to be completed by 1/10.

Date Updated 1/08

Hazard Mitigated Floods

Action/Program DU : Oak Ridge Subdivision Project
Agency/Department Pasco County Stormwater Management
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program

Progress Toward Completion Project has not been scheduled, nor funding determined yet.

Date Updated 1/09

Hazard Mitigated Floods

Action/Program GH : Review of Stormwater Master Plan
Agency/Department Port Richey
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds, Flood Mitigation Assistance Program, Pre-Disaster Mitigation (PDM) Program Water Pollution Control & Watershed Protection and Flood Prevention, SWFTMD

Progress Toward Completion

Date Added 11/08

Hazard Mitigated Floods

Action/Program EM : Riverside Village Project Area
Agency/Department Pasco County Stormwater Management
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program

Progress Toward Completion Project is not active at this time.

Date Updated 11/08

Goal 08 STORMWATER IMPROVEMENT

Hazard Mitigated Floods

Action/Program EQ : San Antonio Stormwater Management Plan

Agency/Department San Antonio

Time Frame Less than 12 Months

Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program

Progress Toward Completion The required field work for our stormwater study has been completed. After recommendations

are compiled by the consulting engineers San Antonio will prioritize projects and pursue funding to implement the recommendations.

Date Updated 1/09

Hazard Mitigated Floods

Action/Program ER : Scenic Drive/Jasmine Blvd. Project

Agency/Department Pasco County Stormwater Management

Time Frame More than 12 Months

Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program

Progress Toward Completion Study began 10/01/07 and scheduled for completion 2010.

Date Updated 11/08

Hazard Mitigated Floods

Action/Program EU : Silver Oaks Drainage Basin Improvements

Agency/Department Zephyrhills/Pasco County Stormwater Management

Time Frame More than 12 Months

Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program

Progress Toward Completion Details of specific improvements is an ongoing process being worked on by Swiftmud and Pasco County Engineer. Project will not be permitted by SWFWMD unless two separate drainage basins are merged. BMPs delivered and project is ranked low due to being totally within the City of Zephyrhills

Date Updated 11/08

Goal 08 STORMWATER IMPROVEMENT

Hazard Mitigated Floods

Action/Program EW : Tampa Downs Project Area
Agency/Department Pasco County Stormwater Management
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program

Progress Toward Completion SWFWMD and Pasco County study due 02/09. BMPs delivered and engineering to begin by 01/09.

Date Updated 11/08

Hazard Mitigated Floods

Action/Program EX : Tommytown-Neighborhood Target Area
Agency/Department Pasco County Community Development
Time Frame More than 12 Months
Possible Funding Sources Community Development Block Grant Program; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Special Economic Development & Adjustment Assistance Program; Watershed Protection & Flood Prevention

Progress Toward Completion Pasco County has received a \$13 million loan for this project. Design completed. Final lots needed for drainage are acquired. Construction began April 2007 in area south of Lock St. Bid for area north of Lock Street went out in Spring 2008. Southern Part of Lock Street completed in 2008. Contract has been signed for the completion of the North side.

Date Updated 1/09

Hazard Mitigated Floods

Action/Program EY : Trouble Creek Road at Wiggins Drive
Agency/Department Pasco County Stormwater Management
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program

Progress Toward Completion Project is not active at this time.

Date Updated 11/08

Goal 08 STORMWATER IMPROVEMENT

Hazard Mitigated Floods

Action/Program FA : Trout Creek Watershed Management Plan Implementation
Agency/Department Pasco County
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants
Progress Toward Completion Stormwater Management Master Plan completed during 2007. BMPs delivered. Engineering of first BMP to begin 01/09.
Date Updated 11/08

Hazard Mitigated Floods

Action/Program FB : Upper Hillsborough Watershed Management Plan Implementation
Agency/Department Pasco County
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant Program; Emergency Management Preparedness and Assistance Trust Fund; Nonpoint Source Implementation Grant; Watershed Protection & Flood.
Progress Toward Completion Stormwater Management Master Plan currently being developed. Started 6/07 and scheduled to be completed by 1/10.
Date Updated 1/08

Hazard Mitigated Floods

Action/Program FC : Viva Villas Project Area
Agency/Department Pasco County Stormwater Management
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program
Progress Toward Completion Project is not active at this time.
Date Updated 11/08

Goal 08 STORMWATER IMPROVEMENT

Hazard Mitigated Floods

Action/Program FE : West Port Project Area Phase II
Agency/Department Pasco County Stormwater Management
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program

Progress Toward Completion Major cleaning of the ditch completed 6/08. Improvements waiting on study started 10/1/07 and scheduled for completion 2011.

Date Updated 11/08

Hazard Mitigated Floods

Action/Program FF : Williams Acres Project, Trout Creek, S.R. 54 & C.R. 577
Agency/Department Pasco County Stormwater Management
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program

Progress Toward Completion Study due 02/01/09. BMPs delivered. Project not scheduled

Date Updated 11/08

Hazard Mitigated Floods

Action/Program FG : Williams Double Branch Estates
Agency/Department Pasco County Stormwater Management
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program

Progress Toward Completion SWFWMD and Pasco County study and BMPs due 02/09.

Date Updated 11/08

Hazard Mitigated Floods

Action/Program FH : Williams New River Project Area, west of Morris Bridge Road
Agency/Department Pasco County Stormwater Management
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program

Progress Toward Completion SWFWMD and Pasco County study began 2007 and to be completed by 2010.

Date Updated 11/08

Goal 08 STORMWATER IMPROVEMENT

Hazard Mitigated Floods

Action/Program GN : Zephyrhills Downtown Retention Pond / flood proofing
Agency/Department Zephyrhills
Time Frame Less than 12 Months
Possible Funding Sources Local Government, Flood Mitigation Assistance Program, Hazard Mitigation Grant Program, Nonpoint Source Implementation Grants, Watershed Protection & Flood Prevention Program

Progress Toward Completion

Date Added 11/08

Hazard Mitigated Floods

Action/Program FR : Zephyrhills Stormwater Management Plan
Agency/Department Zephyrhills and Pasco County Stormwater Management
Time Frame
Possible Funding Sources Emergency Management Preparedness and Assistance Trust Fund
Progress Toward Completion FY 2000 - Partially funded with EMPATF Competitive Grant. PROJECT COMPLETED.

Date Updated 9/03

Objective 08.2 Protect the function of natural drainage features and surficial aquifer recharge areas

Hazard Mitigated Floods

Action/Program BB : Crews Lake Project
Agency/Department Pasco County Stormwater Management
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant; Nonpoint Source Implementation Grants; Pollution Prevention Grants Program; Watershed Protection & Flood Prevention

Progress Toward Completion Project not active at this time.

Date Updated 11/08

Goal 09 REDUCE PROPERTY DAMAGE CAUSED BY FLOODING

Objective 09.1 Identify and correct local flooding conditions

Hazard Mitigated Floods

Action/Program CI : Hudson Ave. Drainage Improvements Project
Agency/Department Pasco County
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant Program; Emergency Management Preparedness and Assistance Trust Fund; Nonpoint Source Implementation Grant; Watershed Protection & Flood

Progress Toward Completion Engineering scheduled for 2010.
Date Updated 11/08

Hazard Mitigated Floods

Action/Program CQ : Kitten Trail Drainage Improvements Project
Agency/Department Pasco County
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program; CDBG

Progress Toward Completion Engineering scheduled for 2010.
Date Updated 11/08

Goal 10 REGULATE AND PRIORITIZE THE CONSTRUCTION AND/OR ENHANCE THE PROTECTION OF CRITICAL FACILITIES AND INFRASTRUCTURE

Objective 10.2 Prioritize and retrofit existing critical facilities and infrastructure

Hazard Mitigated Floods

Action/Program GS : Bay Blvd Lift Station Upgrade
Agency/Department Port Richey
Time Frame Less than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds, Hazard Mitigation Grant Program

Progress Toward Completion
Date Added 12/08

Goal 10 REGULATE AND PRIORITIZE THE CONSTRUCTION AND/OR ENHANCE THE PROTECTION OF CRITICAL FACILITIES AND INFRASTRUCTURE

Hazard Mitigated Hurricanes/ Tropical Storms

Action/Program GM : Emergency Generator
Agency/Department District School Board of Pasco County
Time Frame Less than 12 Months
Possible Funding Sources
Progress Toward Completion
Date Added 11/08

Hazard Mitigated Hurricanes/ Tropical Storms

Action/Program BW : Generator for Town of St. Leo Town Hall
Agency/Department St. Leo
Time Frame More than 12 Months
Possible Funding Sources Emergency Management Preparedness and Assistance Trust Fund
Progress Toward Completion No action taken to date.
Date Updated 1/09

Hazard Mitigated Hurricanes/ Tropical Storms

Action/Program BY : Generators for San Antonio Municipal Facilities
Agency/Department San Antonio
Time Frame More than 12 Months
Possible Funding Sources Emergency Management Preparedness and Assistance Trust Fund
Progress Toward Completion Generator purchased and installed at water plant. Funding not currently available for generators at San Antonio City Hall and Fire Station next door.
Date Updated 1/09

Hazard Mitigated Floods

Action/Program GG : Installation of ring guards on manhole covers
Agency/Department Port Richey
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds, Community Development Block Grant, Hazard Mitigation Grant Program, Water and Waste Disposal Loans and Grants.
Progress Toward Completion
Date Added 11/08

Goal 10 REGULATE AND PRIORITIZE THE CONSTRUCTION AND/OR ENHANCE THE PROTECTION OF CRITICAL FACILITIES AND INFRASTRUCTURE

Hazard Mitigated All Hazards

Action/Program GB : Nextel Re-banding
Agency/Department Pasco County Information Technology and Communications
Time Frame Less than 12 Months
Possible Funding Sources Funding is not necessary
Progress Toward Completion
Date Added 11/08

Hazard Mitigated Floods

Action/Program GQ : Oelsner Lift Station Upgrade
Agency/Department Port Richey
Time Frame Less than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds, Hazard Mitigation Grant Program
Progress Toward Completion
Date Added 12/08

Hazard Mitigated Hurricanes/ Tropical Storms

Action/Program DV : Pasco County Animal Control Power Back-Up
Agency/Department Pasco County Emergency Management and Animal Control
Time Frame More than 12 Months
Possible Funding Sources Emergency Management Preparedness and Assistance Trust Fund
Progress Toward Completion New animal shelter scheduled to come online at earliest during 2009. Shelter to be wired for generator, but will not have generator included. Portable generator to be supplied by County when need arises. Will continue to search for funding to install permanent generator.
Date Updated 1/08

Hazard Mitigated Floods

Action/Program DX : Pasco County Fleet Maintenance Hazardous Waste Mitigation Project - D&E
Agency/Department Pasco County Fleet Maintenance
Time Frame More than 12 Months
Possible Funding Sources Emergency Management Preparedness and Assistance Trust Fund
Progress Toward Completion To be scheduled.
Date Updated 1/08

Goal 10 REGULATE AND PRIORITIZE THE CONSTRUCTION AND/OR ENHANCE THE PROTECTION OF CRITICAL FACILITIES AND INFRASTRUCTURE

Hazard Mitigated Hazard Materials Incidents

Action/Program DY : Pasco County Hazardous Waste Mitigation Project - C Barn Maintenance Facility
Agency/Department Pasco County Fleet Maintenance
Time Frame More than 12 Months
Possible Funding Sources Emergency Management Preparedness and Assistance Trust Fund
Progress Toward Completion Not currently active, since County is outgrowing C-Barn facility and is contemplating moving to a larger facility in the County. Stopped washing cars and are pursuing a different location at this time
Date Updated 1/08

Hazard Mitigated Hurricanes/ Tropical Storms

Action/Program DZ : Pasco County Retrofit of Critical Facilities
Agency/Department Pasco County Emergency Management
Time Frame More than 12 Months
Possible Funding Sources Emergency Management Preparedness and Assistance Trust Fund; Hazard Mitigation Grant Program
Progress Toward Completion Pasco County Facilities submitting 4 facilities and Fire/Rescue submitting 3 for FY 2000-2001 EMPA Grant. Funding not awarded. COOP Working group conducting security surveys of critical facilities and identifying needed enhancements. This is an ongoing effort to retrofit critical facilities.
Date Updated 1/08

Hazard Mitigated Floods

Action/Program ED : Port Richey Lift Station Flood Proofing Project Phase I (48 Lift Stations)
Agency/Department Port Richey
Time Frame More than 12 Months
Possible Funding Sources Emergency Management Preparedness and Assistance Trust Fund
Progress Toward Completion Three lift stations are scheduled for 2009 and 14 manholes have been fitted with rings to
 date. Further work on both projects is planned as funding becomes available.

Date Updated 12/08

Hazard Mitigated Floods

Action/Program GF : Portable Generator for Utilities
Agency/Department Port Richey
Time Frame More than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds, Hazard Mitigation Grant Program, Pre-Disaster Mitigation Program, Water & Waste Disposal Loans & Grants, Water Pollution Control, Watershed Protection and Flood Prevention.
Progress Toward Completion
Date Added 11/08

Goal 10 REGULATE AND PRIORITIZE THE CONSTRUCTION AND/OR ENHANCE THE PROTECTION OF CRITICAL FACILITIES AND INFRASTRUCTURE

Hazard Mitigated Floods

Action/Program GR : Queener Lift Station Upgrade
Agency/Department Port Richey
Time Frame Less than 12 Months
Possible Funding Sources Capitalization Grants for Clean Water State Revolving Funds, Hazard Mitigation Grant Program
Progress Toward Completion
Date Added 12/08

Hazard Mitigated Hurricanes/ Tropical Storms

Action/Program FQ : Zephyrhills Retrofit of Critical Facilities
Agency/Department Zephyrhills
Time Frame More than 12 Months
Possible Funding Sources Emergency Management Preparedness and Assistance Trust Fund; Hazard Mitigation Grant Program
Progress Toward Completion As funding becomes available, retrofitting of critical facilities will be done.
Date Updated 1/08

Objective 10.3 Encourage capital improvement expenditures for critical infrastructure

Hazard Mitigated Hurricanes/ Tropical Storms

Action/Program EI : Regional Hurricane Route and Signal Timing Study for Hurricane Evacuation
Agency/Department Pasco County Emergency Management, Pinellas County, Hillsborough County and Manatee County
Time Frame More than 12 Months
Possible Funding Sources Emergency Management Preparedness and Assistance Trust Fund; Federal Highway Administration; Transportation Efficiency Act of the 21st Century
Progress Toward Completion Tampa Bay Regional Planning Council completed and issued results of Regional Hurricane Evacuation Study during 2006. Signal timing study still needs to be done. Pasco County has installed automatic timing for signals.
Date Updated 1/08

Goal 11 MINIMIZE THE EFFECTS OF PANDEMIC INFLUENZA OR OTHER DISEASE OUTBREAK

Objective 11.1 Continue to enhance measures addressing pandemic influenza or other disease outbreak

Hazard Mitigated Pandemic Influenza

Action/Program GO : Pandemic Flu Plan
Agency/Department Pasco County Health Department
Time Frame Less than 12 Months
Possible Funding Sources Centers for Disease Control
Progress Toward Completion
Date Added 12/08

Goal 12 MINIMIZE THE EFFECTS OF A TERRORIST ATTACK

Objective 12.1 Continue to enhance the capacity to aid in the prevention of and response to terror attacks

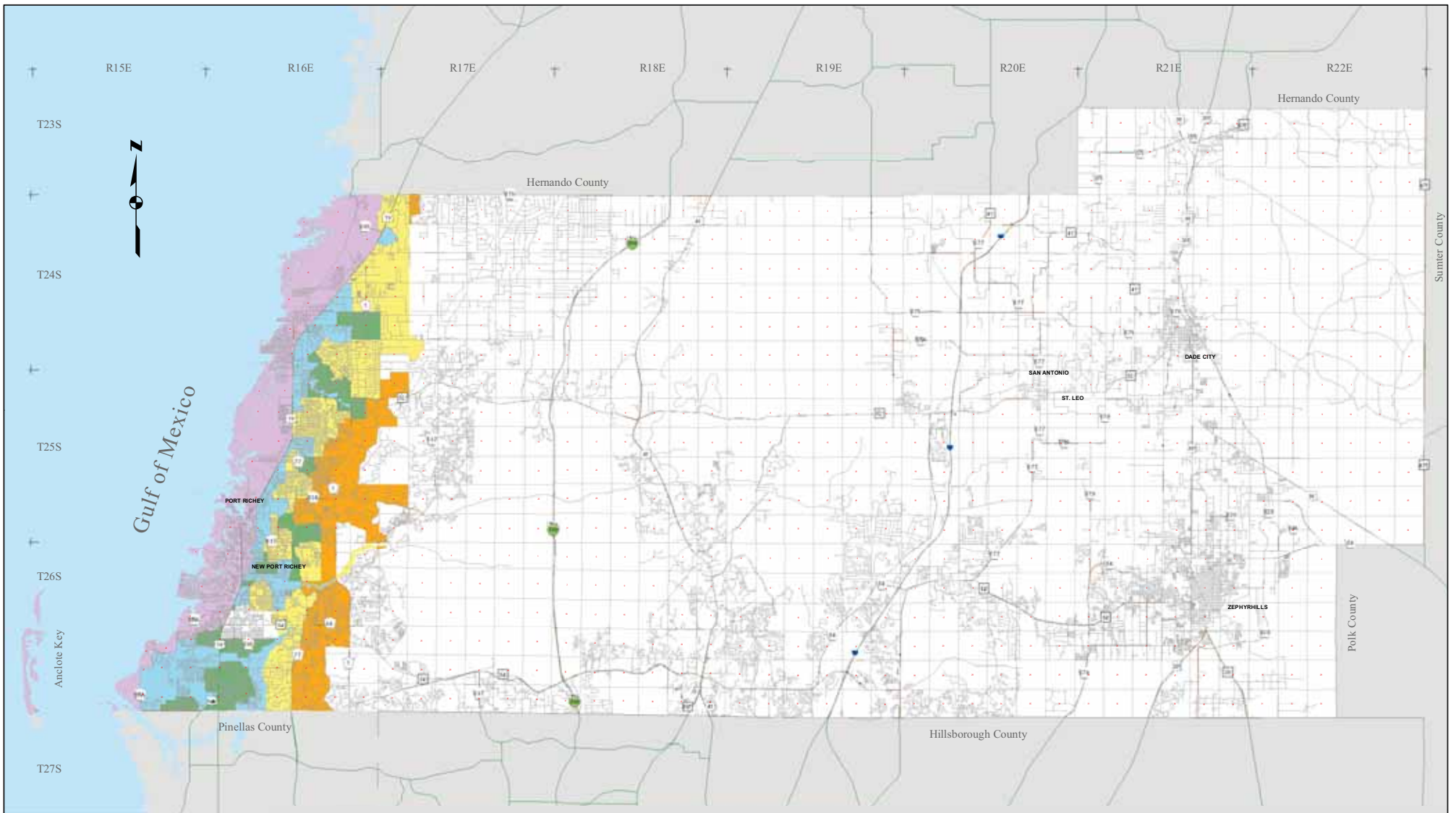
Hazard Mitigated Terrorism

Action/Program GD : Counter-terrorism
Agency/Department Pasco County Emergency Management
Time Frame More than 12 Months
Possible Funding Sources
Progress Toward Completion
Date Added 11/08

Appendix B

Hazard Maps

- B-1 Evacuation Zones
- B-2 Floodplains
- B-3 Tornados
- B-4 Nuclear Power Plant Emergency Planning Zone
- B-5 Drainage Basins



Evacuation Zones

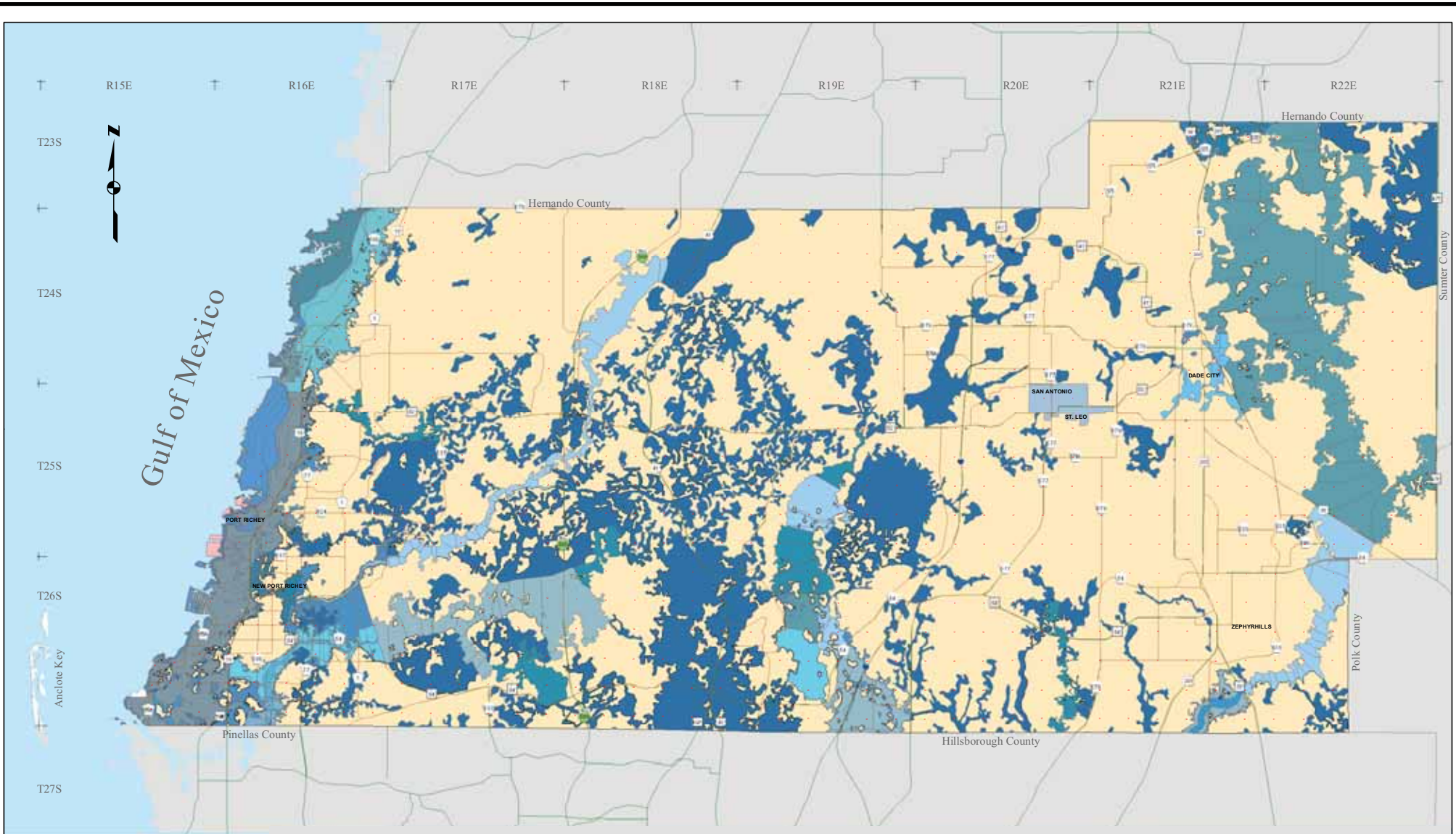
- Level A
- Level A and B
- Level A, B, and C
- Level A, B, C, and D
- Level A, B, C, D, and E

Pasco County, Florida

Office of Emergency Management
7530 Little Rd.
New Port Richey, Florida 34654



<h3>Evacuation Levels</h3>			
Created:	Paul Latham January 2009	Revisions:	
Printed:	Paul Latham January 2009	Scale No.:	LMS2009
Checked by:	Kalah Mueller	Map No.:	B-1




	A		A2		A6		A9		B		X
	A1		A2 F		A6 F		A9 F		C		X5
	A11		A3		A7		A9F		V		
	A13		A4		A7 F		AE		V16		
	A13F		A4 F		A8		AH		V17		
	A14		A5		A8 F		ANI		V18		



Pasco County, Florida

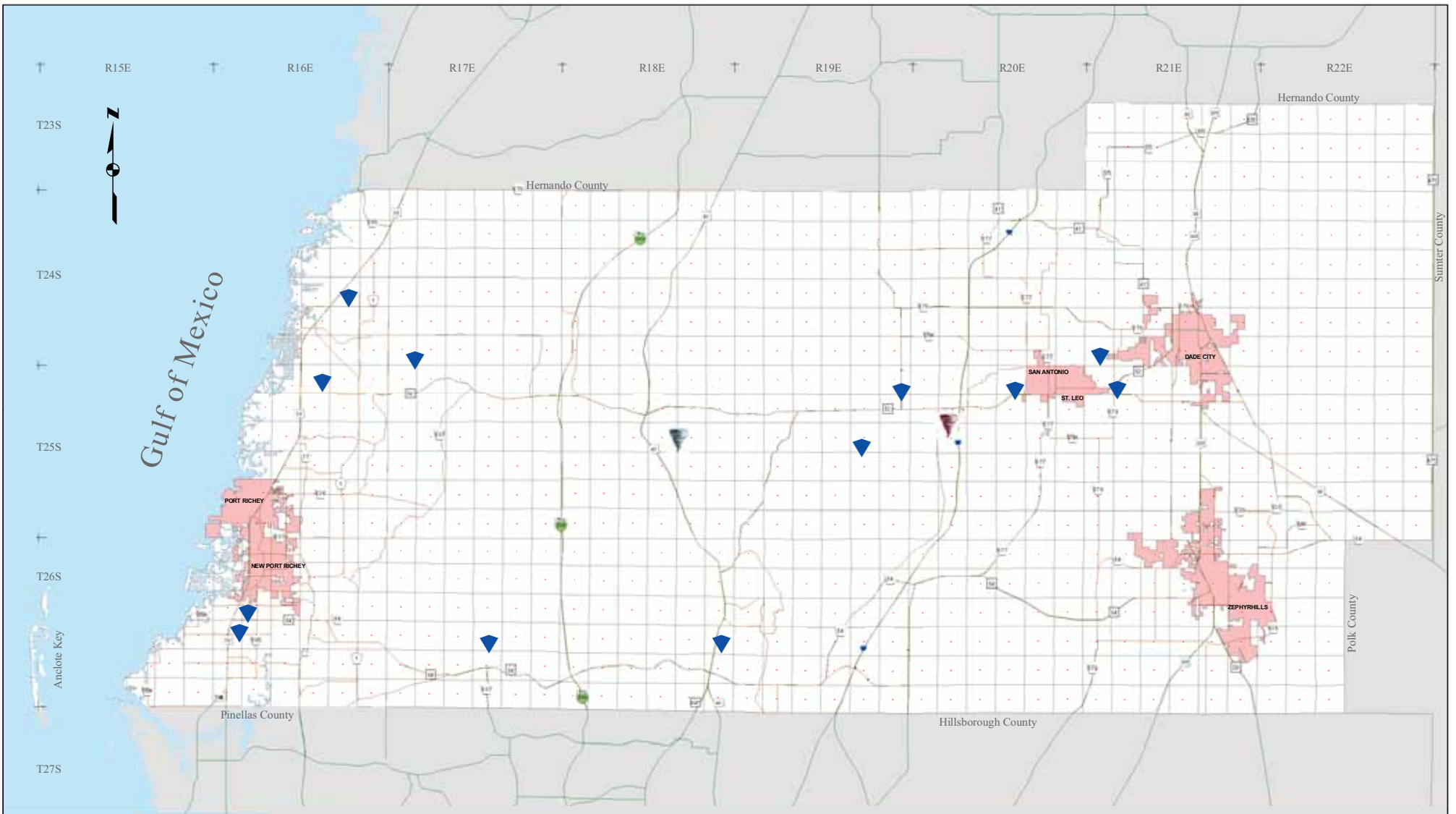
Office of Emergency Management
7530 Little Rd.
New Port Richey, Florida 34654






Project:

FLOOD PLAINS

Created:	Paul Latham January 2009	Revisions:	
Printed:	Paul Latham January 2009		
Checked By:	Kalah Mueller	Scale No:	LMS2009
		Map No:	B-2



Confirmed Tornado Touchdown With Damage

-  Various Locations from 2003-2006
-  Tampa Bay Gulf and Country Club (12/25/06)
-  Pasco County Jail Land O' Lakes (12/16/07)



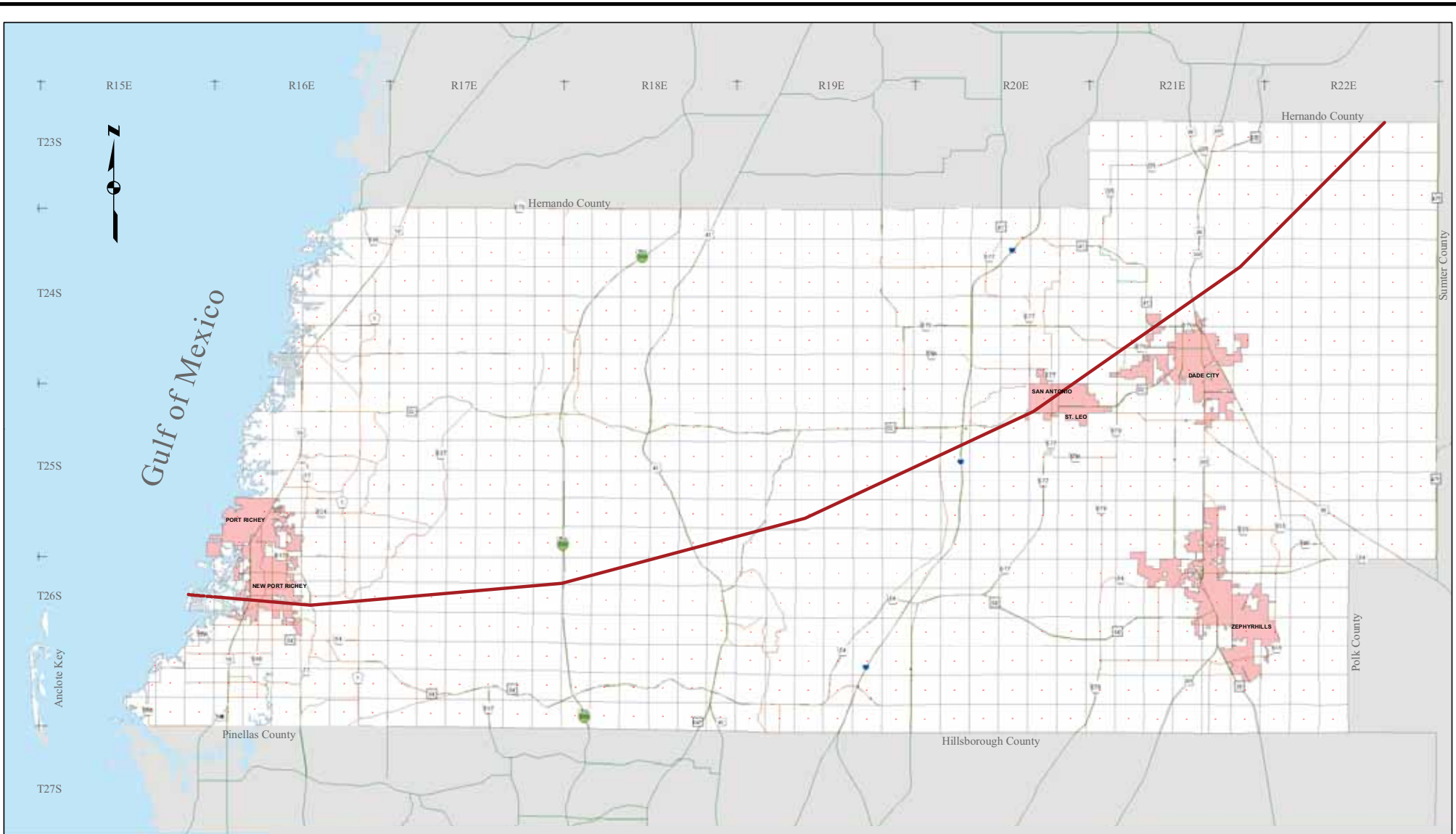
Pasco County, Florida

Office of Emergency Management
 7530 Little Rd.
 New Port Richey, Florida 34654



Project:
 National Weather Service
 Confirmed Tornado Touchdown Locations

Created:	Paul Latham January 2009	Revision:	
Printed:	Paul Latham January 2009		
Checked By:	Kalah Mueller	Map No:	B-3



Crystal River Nuclear Power Plant
 Emergency Planning Zones
 50-mile Ingestion / Exposure Pathway

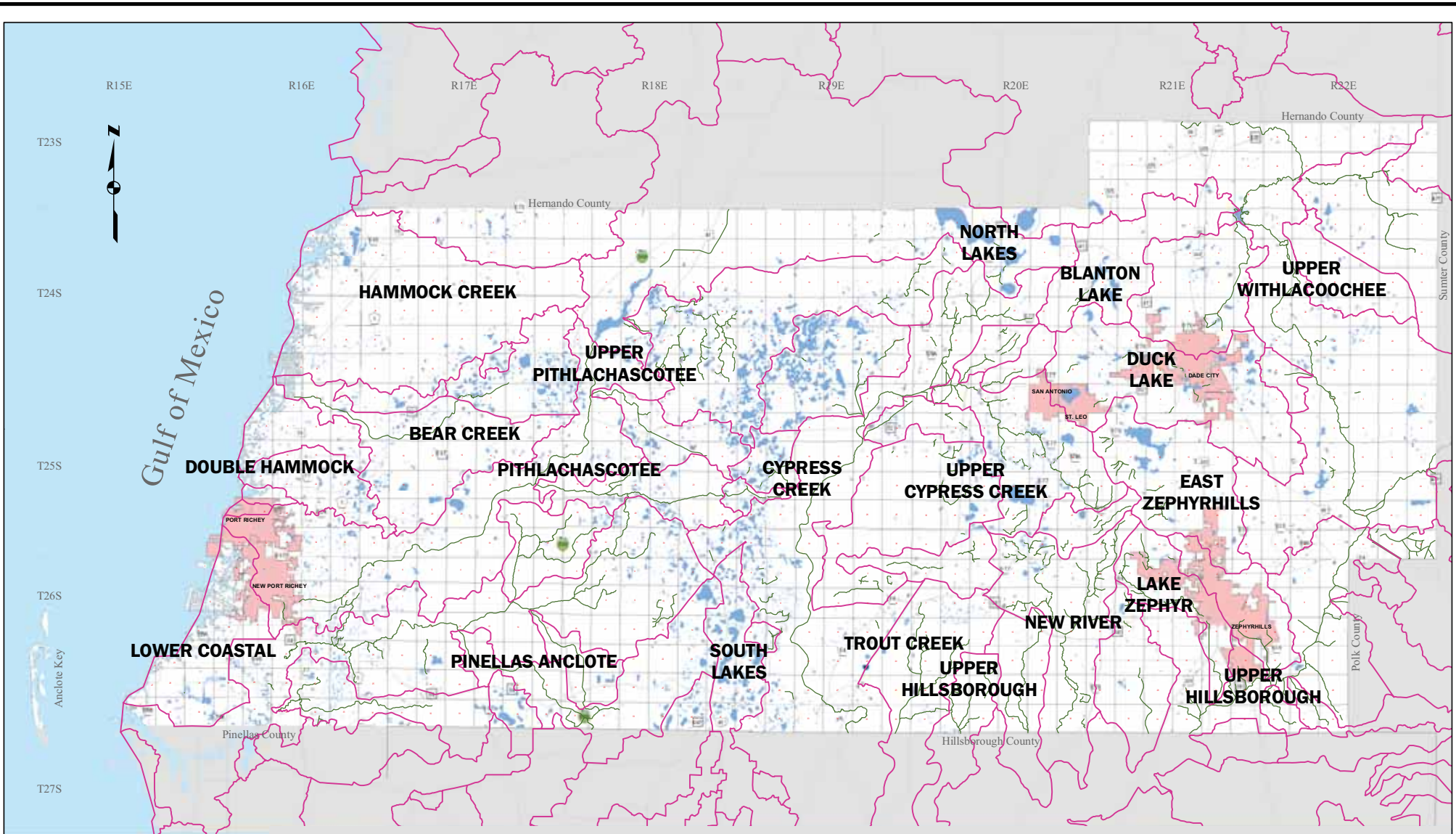


Pasco County, Florida

Office of Emergency Management
 7530 Little Rd.
 New Port Richey, Florida 34654



Project:			
Nuclear Power Plant Radiological Emergency Planning Zones			
Created:	Paul Latham January 2009	Revisions:	
Printed:	Paul Latham January 2009		
Checked by:	Kalah Mueller	Scale No:	Map No:
		LMS2009	B-4




- Drainage Basins
- Rivers
- Lakes

Drainage basin data obtained from the Southwest Florida Water Management District, February 2009.
http://www.swfwmd.state.fl.us/data/gis/layer_library/category/physical_sparse



Pasco County, Florida

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DRAINAGE BASINS

Created:	Paul Latham February 2009	Revisions:
Printed:	Paul Latham February 2009	
Checked by:	Kalah Mueller	Sheet No. Map No. LMS2009 B-5

Repetitive Loss Properties and Development of Repetitive Loss Areas

(Updated January 22, 2008)

Pasco County received its repetitive loss property information from the Federal Emergency Management Agency (FEMA). Four hundred ninety-two (492) repetitive loss properties were identified in this information. After a review of these properties and correction to those properties already mitigated or not located within the jurisdiction of unincorporated Pasco County, it was determined that a total of four hundred sixty-one (461) properties need to be counted for CRS purposes. These properties were then located on the property appraiser parcel maps and the repetitive loss areas were then defined. The areas were defined through the use of contour information from the Southwest Florida Water Management District topographic maps and available flood elevation information.

Through evaluation of the repetitive loss property locations, map information, and site inspections, it was determined that 14 repetitive loss areas existed in Pasco County. Other repetitive loss properties were isolated in areas of the County. These isolated repetitive loss properties are identified by the drainage basin in which they are located.

By using the Geographical Information System, an inventory was conducted of each repetitive loss area. The total number of undeveloped and developed properties was identified along with the year in which the structures were built to determine how many structures were pre-Flood Insurance Rate Map (FIRM) (built prior to Pasco County joining National Flood Insurance Program [NFIP]) and post-FIRM (built after Pasco County joined NFIP). These were then further subdivided into type of structure based on the Use Codes assigned to structures by the Pasco County Property Appraiser's Office.

Each of the repetitive loss properties on the printout indicated an event date that resulted in an NFIP insurance claim. These dates were arranged in chronological order, and the Office of Emergency Management and the National Weather Service were consulted as to the event that occurred on the dates listed.

Repetitive Loss Area Summary

TYPE OF STRUCTURE	PRE-FIRM	POST-FIRM
Single-Family Residential, Single-Family Villas	1,858	1,477
Mobile Homes	653	266
Multifamily (less than five units)	99	14
Multifamily (five or more units)	14	1
Condominium	122	37
Multi Story Retirement Apartments	0	0
Professional Offices or Medical	8	8
Commercial Buildings	103	14
Food-Related Buildings	3	5
Vehicle-Related Buildings	17	6
Financial Institutions	1	0
Hotels and Motels	4	0
Hospitals and Nursing Homes	2	1
Churches	6	0
Storage/Warehouses	11	3
Industrial Buildings	0	1
Social Buildings/Entertainment/Sporting Facilities	9	1
Schools	1	0
Government Buildings/Facilities	13	1
Utility Buildings	11	1
Total Properties with Structures	2935	1836
Vacant Properties		1533

Repetitive Loss Area No. 1: Hudson

Repetitive Loss Area No. 1 is located west of U.S. 19 and east of the Gulf of Mexico in Sections 27, 28, and 33; Township 24 South; Range 16 East. The events attributed to flooding in this area are 8, 11, 15, 16, 23, and 33.

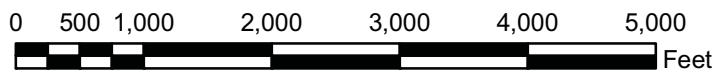
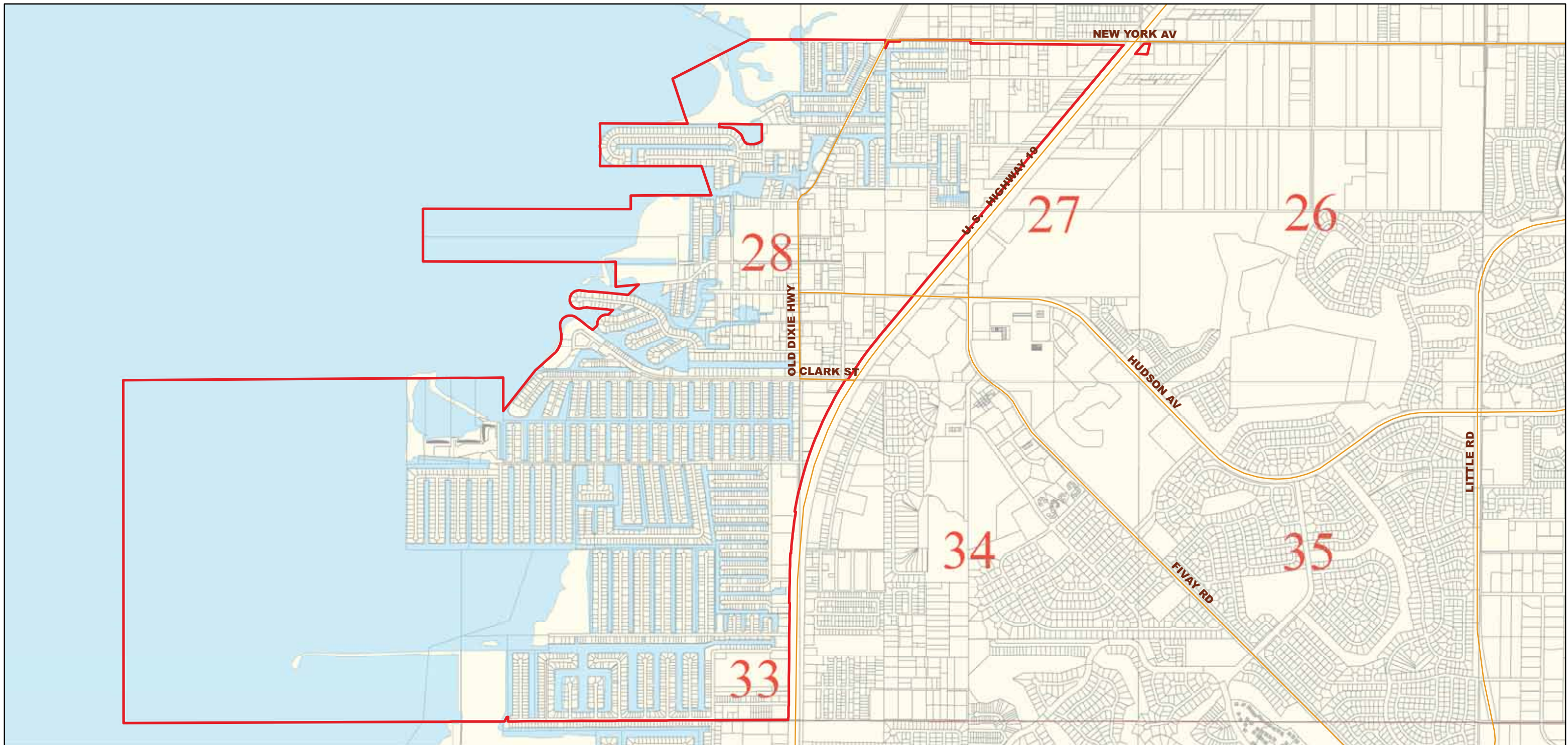
Repetitive Loss Area No. 1 is an area that consists of older homes on canals which were built in the 1960's and 1970's, prior to the County joining NFIP. The area was developed by the dredging and creation of a canal system with the excavated material deposited, graded, and then subdivided into lots and sold. This area consists of long main streets off of which branch cul-de-sac streets. The area is developed with few vacant lots remaining. Drainage in the area consists of sheet flow along the roadways into catch basins which directly discharge to the canals, leading directly to the Gulf of Mexico.

There are a total of 2,531 structures located within this area. Of those, 1,398 are pre-FIRM and 1,133 are post-FIRM. The flood zones in this area range from "A14" to "V17," with the base flood elevation (BFE) ranging from 13 to 19 feet. The average grade elevation in this area ranges from three to seven feet. The structures in this area consist of the following types:

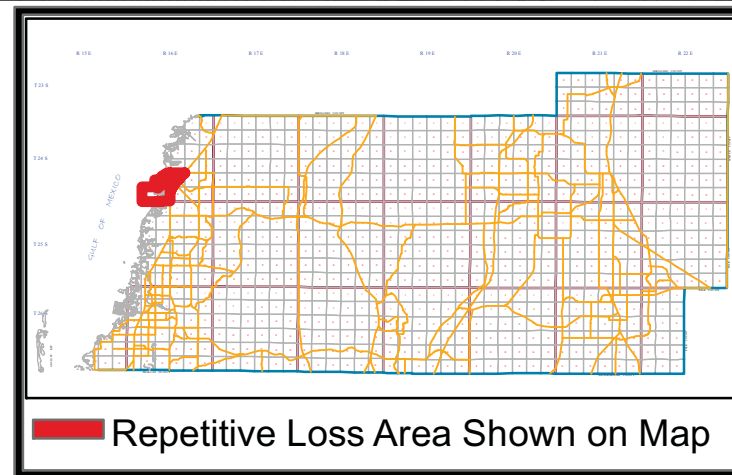
TYPE OF STRUCTURE	PRE-FIRM	POST-FIRM
Single-Family Residential, Single-Family Villas	736	898
Mobile Homes	505	214
Multifamily (less than five units)	38	4
Multifamily (five or more units)	2	1


Condominium	0	0
Multi Story Retirement Apartments	0	0
Professional Offices or Medical	6	4
Commercial Buildings	65	5
Food-Related Buildings	2	3
Vehicle-Related Buildings	11	2
Financial Institutions	0	0
Hotels and Motels	4	0
Hospitals and Nursing Homes	2	0
Churches	4	0
Storage/Warehouses	9	2
Industrial Buildings	0	0
Social Buildings/Entertainment/Sporting Facilities	6	0
Schools	1	0
Government Buildings/Facilities	2	0
Utility Buildings	5	0
Total Properties with Structures	1398	1133
Vacant Properties		855
Total Properties	1398	1988

Repetitive Loss Area No. 1 is in an Evacuation Level A area which is the first level to be evacuated. Approximately ten hours are needed to evacuate the entire Level A area. Flooding in this area impacts the roadway areas first. This in turn hampers evacuation efforts as normal passenger vehicles cannot be used and high-rise vehicles must be used. Past flooding in this area has ranged from a few inches to several feet causing damage mainly to the residential homes with few sustaining substantial damage. Development and redevelopment in this area consists of home improvements and repairs, and redevelopment of business properties. Substantially improved or damaged structures are required to comply with the standards for new construction. The County has assisted in the elevation of five (5) single-family homes in this area through the Flood Mitigation Assistance Program (FMAP).



1 inch equals 1,500 feet



PASCO COUNTY FLORIDA Geographic Information Systems Division (GIS) Survey Department Engineering Services		
Title: RLA 1 - Hudson Sections 27,28,33, & 34 Township 24 S Range 16 E.		
Created By: E.C.D. Date: 02-12-2009 Reviewed By: C.J.	<small>This map is for informational purposes only. The data contained herein is not collected under the supervision of, or approved by, a licensed surveyor. It is not intended for any legal use. The data does not meet the minimum technical standards under the Florida Administrative Code 61G17-6. The Pasco County Board of County Commissioners does not accept any responsibility for errors or omissions of any kind contained in the data herein. All products and derivations from the data contained herein must retain this disclaimer.</small>	
Source Data: Pasco County Property Appraiser Pasco County GIS Pasco County Development Review		

Repetitive Loss Area No. 2: Lake Worrell

Repetitive Loss Area No. 2 is located east of Little Road (C.R. 1), north of Ridge Road (C.R. 587A), and adjacent to Yellow Lake, in Sections 25 and 26, Township 25 South, Range 16 East. The events attributed to flooding in this area are 10, 11, 15, 32, 33 and 34.

Repetitive Loss Area No. 2 includes ten repetitive loss properties. This area contains larger lot property developed prior to the County joining NFIP. The area around the lakes known as Lake Worrell, Worley Lakes, Bass Lake, Yellow Lake, Scout Lake, and Rock Sink have experienced water levels which caused some flooding of the existing residential structures and streets. The two most recent storm events which caused these high water levels occurred during the summers of 1985 and 1988. In 1989, the Board of County Commissioners authorized a drainage study of the area to gather data, determine the extent of the flooding problem, and list alternatives for further consideration. The area of study included three major drainage basins. These basins were delineated and their characteristics were summarized. The flood levels for the various basins were then taken from information found in studies performed by SWFWMD. Field surveying and engineering analysis was then performed which supported these flood levels. The Two-, Five-, Ten-, 25-, 50-, and 100-year flood levels for the repetitive loss area were determined to be the following:

Bass Lake (Worrell Lake)

2-Year Storm Flood Level 20.9
5-Year Storm Flood Level 21.5
10-Year Storm Flood Level 22.1
25-Year Storm Flood Level 22.6
50-Year Storm Flood Level 23.2
100-Year Storm Flood Level 23.6

Based on the 100-year flood level, it was determined that any building with a finished floor elevation below 23.6 had a chance of experiencing flood damage with the occurrence of a 100-year storm event. Existing building elevations for structures in the area were then obtained. The finished floor elevations ranged from a low of 20.43 feet to a high of 37.56 feet.

Several possible solutions were then presented. These included retrofitting existing structures by elevating, sand bagging, constructing berms and sumps, and abandoning structures. The study also recommended that all new structures in this area be built with a minimum finished floor elevation of 24.0 feet.

Another solution that was proposed was the development of an alternative outfall for this area; however, this outfall may not provide relief to the water levels experienced during storm events, but it would provide a faster draw down of the flood waters after the peak level is achieved.

There are a total of 425 structures located within this area. Of those, 220 are pre-FIRM and 205 are post-FIRM. The flood zone in this area is "A" with BFE of 23 feet. The average grade elevation in this area ranges from 19 to 27 feet. The structures consist of the following:

TYPE OF STRUCTURE	PRE-FIRM	POST-FIRM
Single-Family Residential, Single-Family Villas	168	167
Mobile Homes	30	24
Multifamily (less than five units)	13	4
Multifamily (five or more units)	0	0
Condominium	0	0
Multi Story Retirement Apartments	0	0
Professional Offices or Medical	0	1
Commercial Buildings	4	6
Food-Related Buildings	0	1
Vehicle-Related Buildings	1	0
Financial Institutions	1	0
Hotels and Motels	0	0
Hospitals and Nursing Homes	0	1
Churches	1	0
Storage/Warehouses	0	0
Industrial Buildings	0	0
Social Buildings/Entertainment/Sporting Facilities	1	0
Schools	0	0
Government Buildings/Facilities	1	0
Utility Buildings	0	1
Total Properties with Structures	220	205
Vacant Properties		136
Total Properties	220	341

Repetitive Loss Area No. 2 is in an Evacuation Level E area, which is the last level to be evacuated. Approximately 13 hours are needed to evacuate the entire Level E area. Flooding in this area is due to rising water in the existing lakes. Flooding is of varying depths creating damage to the residential homes. Redevelopment in this area consists of home improvements and repairs to existing homes.

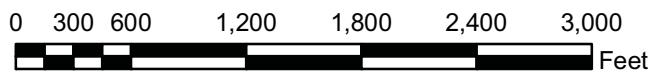
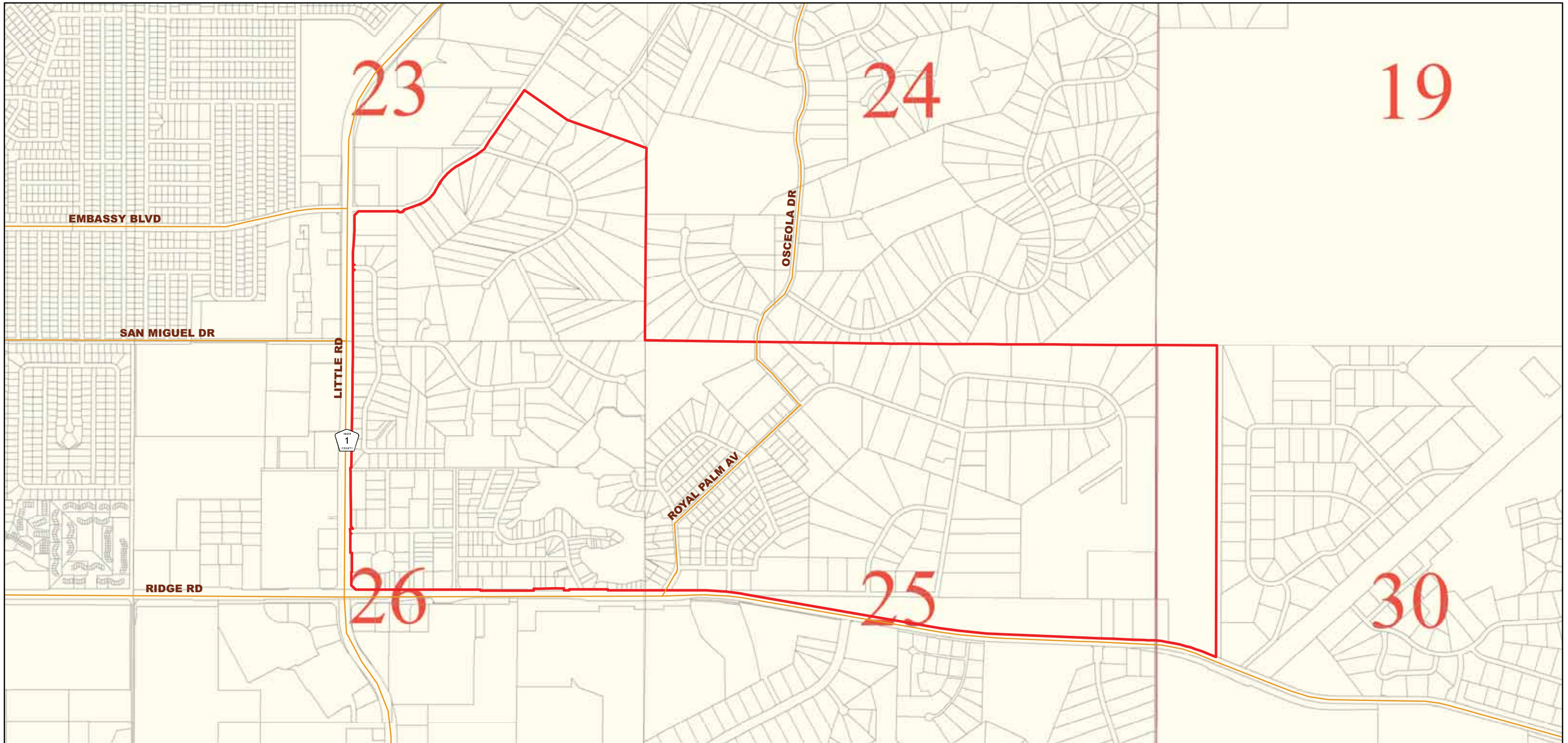
The Spring/Summer 2003 Flood (Incident #03-06118) affected this Repetitive Loss Area. Based on County staffs review of the areas of flooding, in comparison to those areas shown on the FIRM map as within the 100-year flood zone, it has been determined by staff that the Spring/Summer 2003 Event has exceeded the 100-year storm in this area.

Impacts in this area began in June 2003 when Pasco County experienced between 20 and 30 inches of rain.

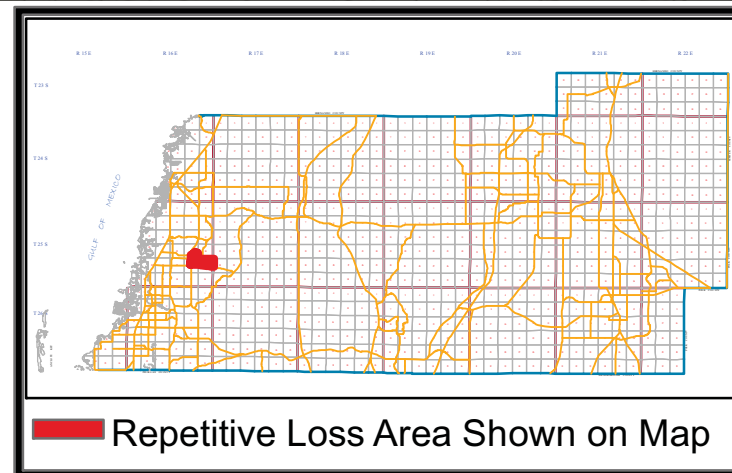
A Comfort Station for the residents in this area was set up at the end of June through August 4, 2003. The Comfort Station consisted of Shower Units, Port-a-Lets, Potable Water source and a dumpster.

On July 21, 2003, County officials and Southwest Florida Water Management District representatives met with area residents to discuss the flooding issues. Approximately 40 residents from this area attended. The residents received information on proposed solutions and packets and applications for the Pre-Disaster Mitigation Program. As a follow up to this meeting, on August 1, 2003 each resident in this area was sent a packet of information on the current situation and proposed solutions. In addition, on August 4, 2003, residents of flooded structures were sent a notice to determine any interest in a buy-out of their property. In response to this notice, one Pre-Disaster Mitigation application was submitted to the State of Florida for elevation of a repetitively flooded structure at 8526 Cameo Drive.

On July 26, 2004, the Florida Department of Community Affairs notified Pasco County that the PDM application would not be forwarded to FEMA for consideration. However, the application has been modified and submitted to the State of Florida for consideration under the 2004 Flood Mitigation Assistance Program application cycle. The demolition/rebuild of this structure has recently been completed.



1 inch equals 1,000 feet



Repetitive Loss Area Shown on Map

PASCO COUNTY FLORIDA

Geographic Information Systems Division (GIS)
Survey Department
Engineering Services



Title: Sections 23,24,25,26 TWP 25 S RNG. 16 E.
Sections 30 TWP 25 S RNG. 17 E.

RLA 2 - Lake Worrell

Created By: E.C.D.
Date: 02-12-2009
Reviewed By: C.J.
Source Data:
Pasco County Property Appraiser
Pasco County GIS
Pasco County Development Review

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Repetitive Loss Area No. 3: Pithlachascotee

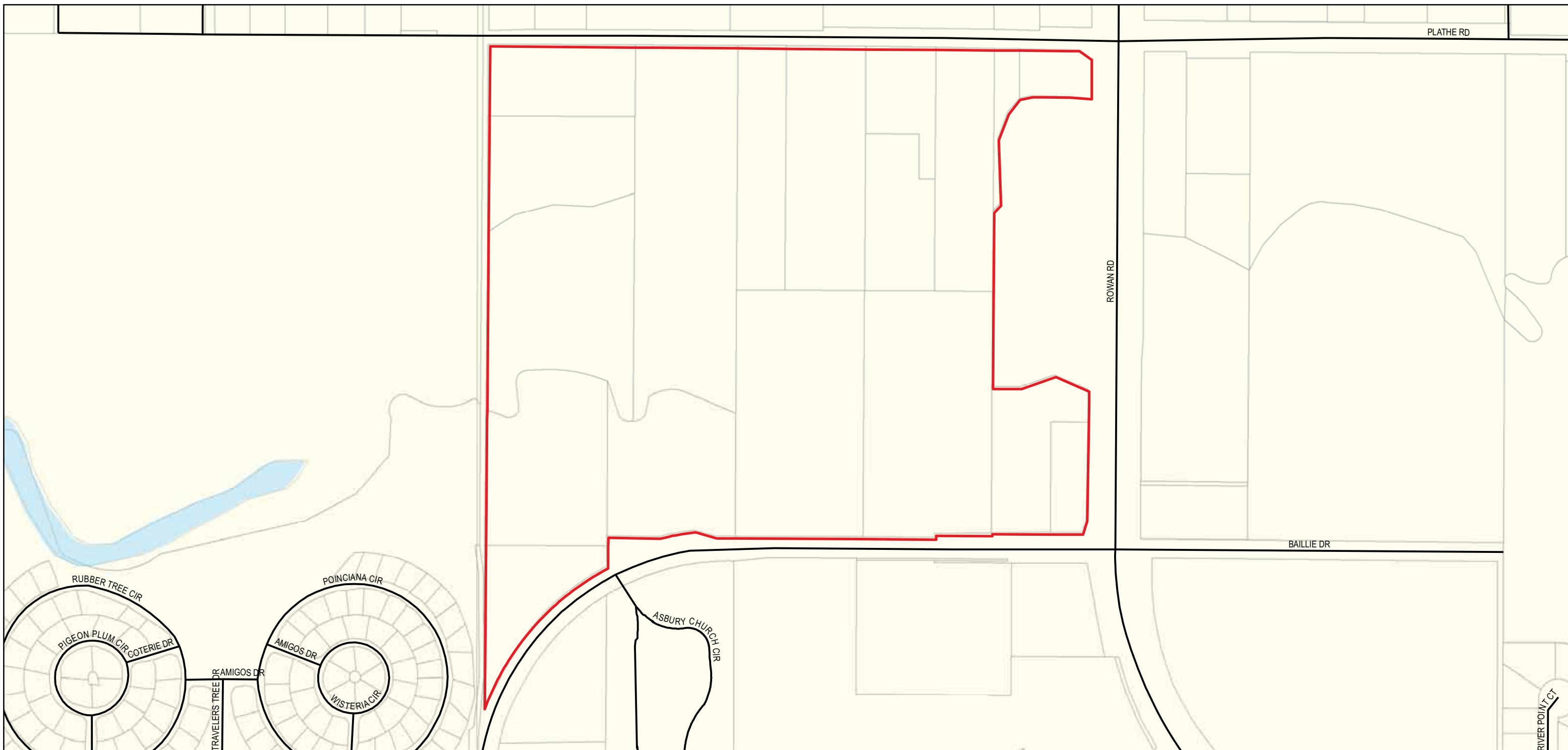
Repetitive Loss Area No. 3 is located west of C.R. 77 and south of Plathe Road, directly adjacent to the Pithlachascotee River, in Section 10, Township 26 South, Range 16 East. The events attributed to flooding in this area are 11 and 14.

Repetitive Loss Area No. 3 includes two repetitive loss properties. This area is characterized by unplatted division of property along the Pithlachascotee River. There are a total of 11 structures located within this area. Of those, 8 are pre-FIRM and three are post-FIRM. The flood zone in this area is "A7" with BFE of 11 feet. The average grade elevation in this area ranges from 6 to 16 feet. The structures consist of the following types:

TYPE OF STRUCTURE	PRE-FIRM	POST-FIRM
Single-Family Residential, Single-Family Villas	3	1
Mobile Homes	0	2
Multifamily (less than five units)	0	0
Multifamily (five or more units)	0	0
Condominium	0	0
Multi Story Retirement Apartments	0	0
Professional Offices or Medical	0	0
Commercial Buildings	2	0
Food-Related Buildings	0	0
Vehicle-Related Buildings	0	0
Financial Institutions	0	0
Hotels and Motels	0	0
Hospitals and Nursing Homes	0	0
Churches	0	0
Storage/Warehouses	0	0
Industrial Buildings	0	0
Social Buildings/Entertainment/Sporting Facilities	0	0
Schools	0	0
Government Buildings/Facilities	3	0
Utility Buildings	0	0
Total Properties with Structures	8	3
Vacant Properties		9
Total Properties	8	12

There are no plans for drainage improvements in this area.

Repetitive Loss Area No. 3 is in an Evacuation Level A area. Approximately ten hours are needed to evacuate the entire Level A area. Flooding in this area is due to rising water in the Pithlachascotee River. Redevelopment in this area consists mainly of repairs and maintenance to existing structures. No structures in this area have been substantially improved or substantially damaged.



1 inch equals 250 feet



Repetitive Loss Area Shown on Map

PASCO COUNTY FLORIDA
 Geographic Information Systems Division (GIS)
 Survey Department
 Engineering Services



Title: Sections 10 TWP 26 S RNG. 16 E.

RLA 3 - Pithlachascotee

Created By: E.C.D
 Date: 02-12-2009
 Reviewed By: C.J.
 Source Data:
 Pasco County Property Appraiser
 Pasco County GIS
 Pasco County Development Review

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Repetitive Loss Area No. 4: Green Key

Repetitive Loss Area No. 4 is located west of U.S. 19 and east of the Gulf of Mexico in Sections 31 and 32, Township 25 South, Range 16 East, and Sections 5 and 6, Township 26 South, Range 16 East. The events attributed to flooding in this area are 11, 13, 15, 21, 22, 23, 27, 28, 30, and 33.

Repetitive Loss Area No. 4 includes 88 repetitive loss properties. This area consists of older homes, the majority of which were built prior to the County joining NFIP. Drainage in the area consists of sheet flow to drainage swales which eventually lead to the Gulf of Mexico.

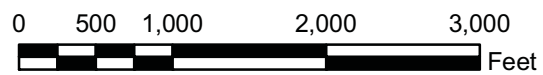
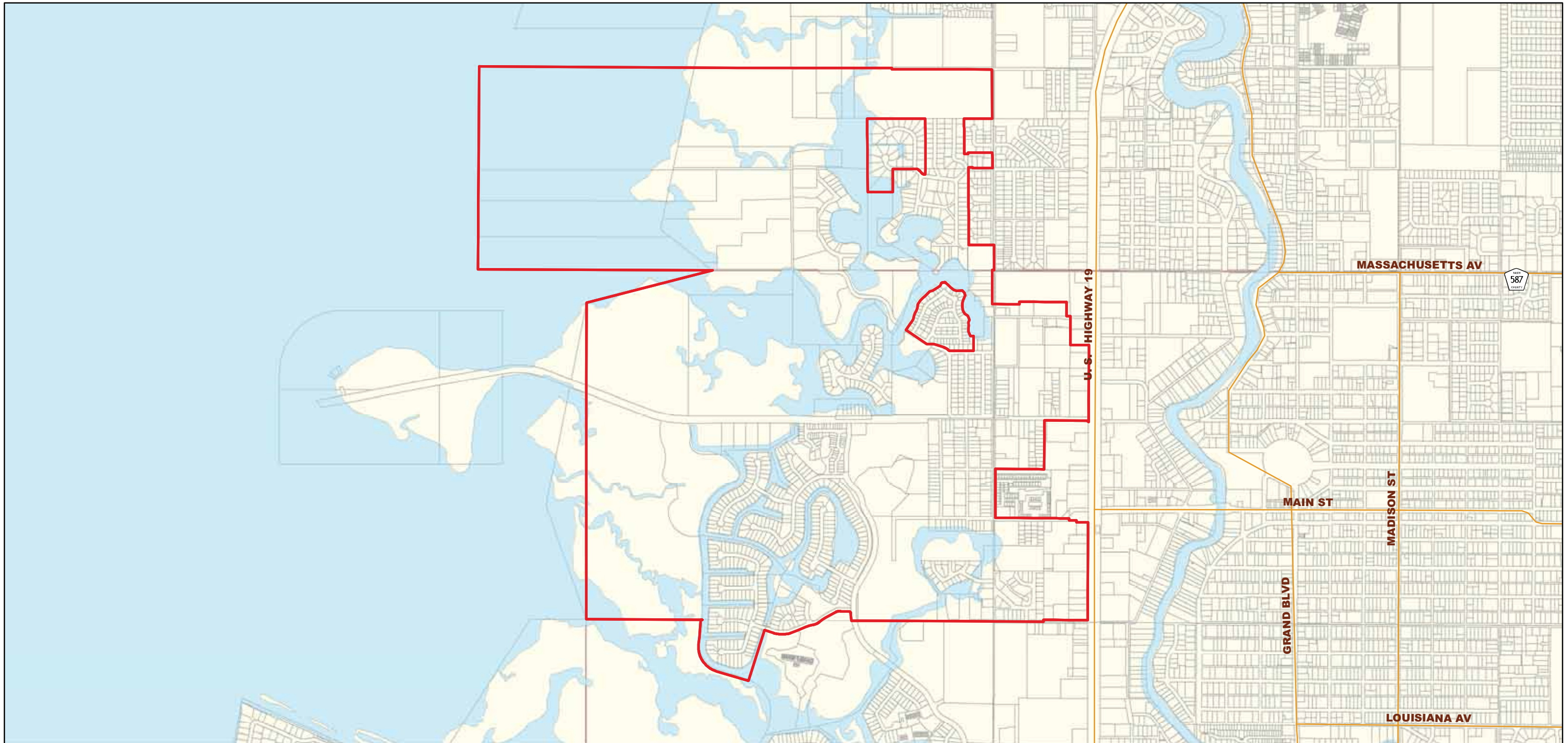
There are a total of 693 structures located within this area. Of these, 348 are pre-FIRM and 345 are post-FIRM. The flood zones in this area range from "A13" to "V17" with BFE ranging from 12 to 19 feet. The average grade elevation in this area ranges from 3 to 12 feet.

The structures in this area consist of the following types:

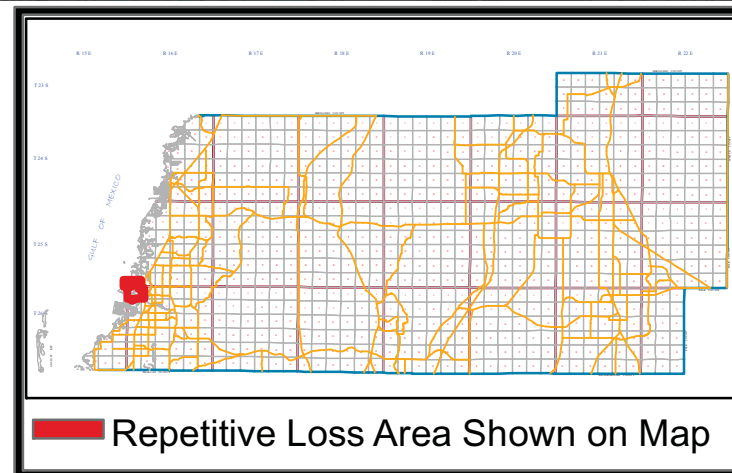
TYPE OF STRUCTURE	PRE-FIRM	POST-FIRM
Single-Family Residential, Single-Family Villas	224	327
Mobile Homes	76	10
Multifamily (less than five units)	13	0
Multifamily (five or more units)	0	0

Condominium	0	0
Multi Story Retirement Apartments	0	0
Professional Offices or Medical	1	1
Commercial Buildings	24	1
Food-Related Buildings	0	1
Vehicle-Related Buildings	2	2
Financial Institutions	0	0
Hotels and Motels	0	0
Hospitals and Nursing Homes	0	0
Churches	0	0
Storage/Warehouses	0	1
Industrial Buildings	0	0
Social Buildings/Entertainment/Sporting Facilities	0	1
Schools	0	0
Government Buildings/Facilities	4	1
Utility Buildings	4	0
Total Properties with Structures	348	345
Vacant Properties		293
Total Properties	348	638

Repetitive Loss Area No. 4 is in an Evacuation Level A area. Approximately ten hours are needed to evacuate the entire Level A area. Flooding in this area impacts the roadway areas first with water then entering the structures. This area is affected by tidal action. Due to the tidal action and the terrain of this area, water often stands some period of time prior to draining to the Gulf of Mexico. Past flooding in this area has ranged from a few inches to several feet causing minor to substantial damage to the structures. Development and redevelopment in this area consists of home improvements and repairs with some redevelopment of business properties. Substantially improved or damaged structures are required to comply with the standards for new construction. The County has assisted in the elevation of two single-family homes in this area through FMAP. In addition, the State of Florida, Department of Community Affairs, has recently prepared a "Hazard Mitigation Planning Strategy" for a portion of this repetitive loss area.



1 inch equals 1,250 feet



PASCO COUNTY FLORIDA

Geographic Information Systems Division (GIS)
Survey Department
Engineering Services



Title: Sections 31 & 32 TWP 26 S RNG. 16 E.
RLA 4 - Green Key Sections 5,6 & 7 TWP 26 S RNG. 16 E.

Created By: E.C.D

Date: 02-12-2009

Reviewed By: C.J.

Source Data:
Pasco County Property Appraiser
Pasco County GIS
Pasco County Development Review

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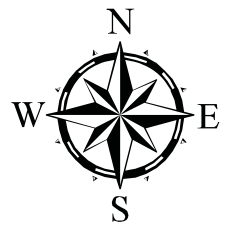
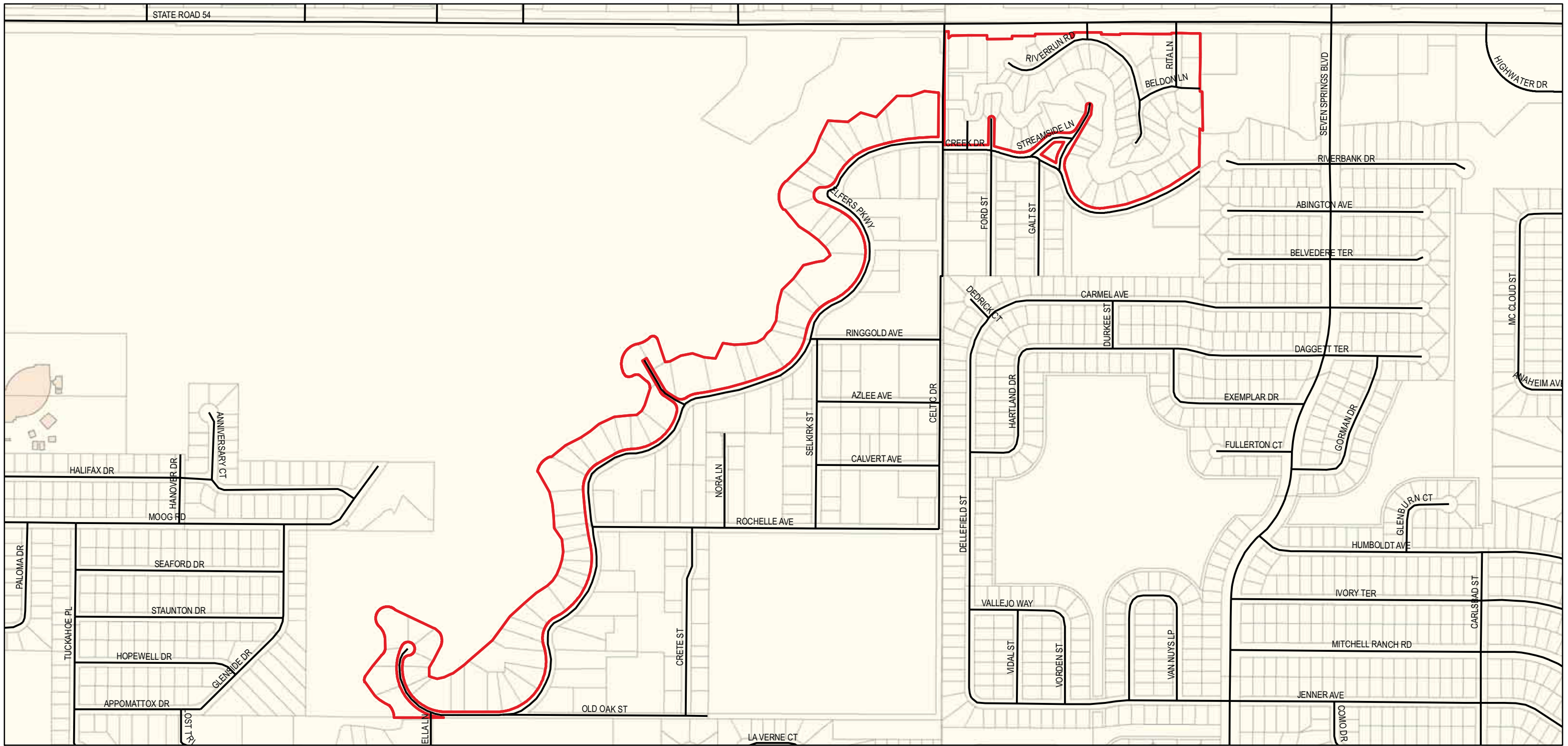
Repetitive Loss Area No. 5: Anclote

Repetitive Loss Area No. 5 is located south of S.R. 54 and west of C.R. 77, directly adjacent to the Anclote River, in Sections 21 and 22, Township 26 South, Range 16 East. The events attributed to flooding in this area are 11, 12, 14, 15, and 32.

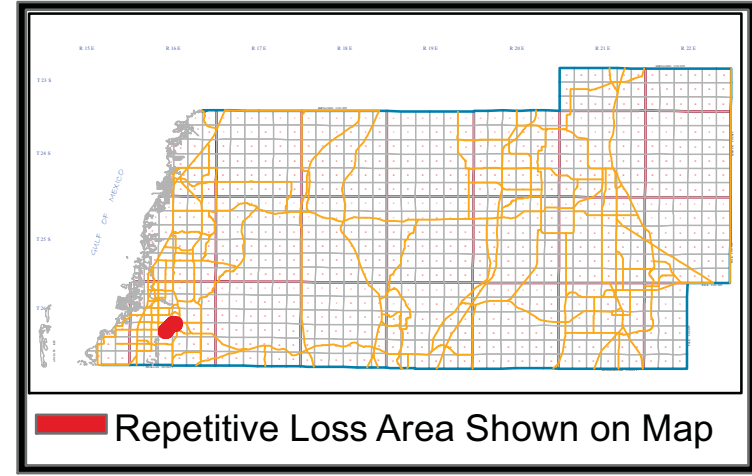
Repetitive Loss Area No. 5 includes eight repetitive loss properties. This area consists of older homes built prior to the County joining NFIP. There are a total of 83 structures located within this repetitive loss area. Of these, 69 are pre-FIRM and 14 are post-FIRM. The flood zone in this area is "AE" with BFE ranging from 13 to 20 feet. The floodway of the Anclote River is also in this area. The average grade elevation in this area ranges from 6 to 15 feet. The structures consist of the following types:


TYPE OF STRUCTURE	PRE-FIRM	POST-FIRM
Single-Family Residential, Single-Family Villas	38	7
Mobile Homes	20	2
Multifamily (less than five units)	9	0
Multifamily (five or more units)	0	0
Condominium	0	0
Multi Story Retirement Apartments	0	0
Professional Offices or Medical	0	2
Commercial Buildings	1	0
Food-Related Buildings	0	0
Vehicle-Related Buildings	0	2
Financial Institutions	0	0
Hotels and Motels	0	0
Hospitals and Nursing Homes	0	0
Churches	0	0
Storage/Warehouses	0	0
Industrial Buildings	0	1
Social Buildings/Entertainment/Sporting Facilities	0	0
Schools	0	0
Government Buildings/Facilities	0	0
Utility Buildings	0	0
Total Properties with Structures	69	14
Vacant Properties		49
Total Properties	69	63

Repetitive Loss Area No. 5 is in an Evacuation Level A area. Approximately ten hours are needed to evacuate the entire Level A area. Flooding in this area is due to rising water in the Anclote River. Redevelopment in this area consists mainly of repairs and maintenance to existing structures. The County has assisted in the elevation of one single-family home in this area through HMGP.



1 inch equals 500 feet



<h2>PASCO COUNTY FLORIDA</h2> <p>Geographic Information Systems Division (GIS) Survey Department Engineering Services</p> 	
<p>Title: Sections 21 & 22 TWP 26 S RNG. 16 E.</p>	
<h3>RLA 5 - Anclote</h3>	
<p>Created By: E.C.D Date: 02-12-2009 Reviewed By: C.J.</p>	<p><small>This map is for informational purposes only. The data contained herein is not collected under the supervision of, or approved by, a licensed surveyor. It is not intended for any legal use. The data does not meet the minimum technical standards under the Florida Administrative Code 61G17-6. The Pasco County Board of County Commissioners does not accept any responsibility for errors or omissions of any kind contained in the data herein. All products and derivations from the data contained herein must retain this disclaimer.</small></p>
<p>Source Data: Pasco County Property Appraiser Pasco County GIS Pasco County Development Review</p>	

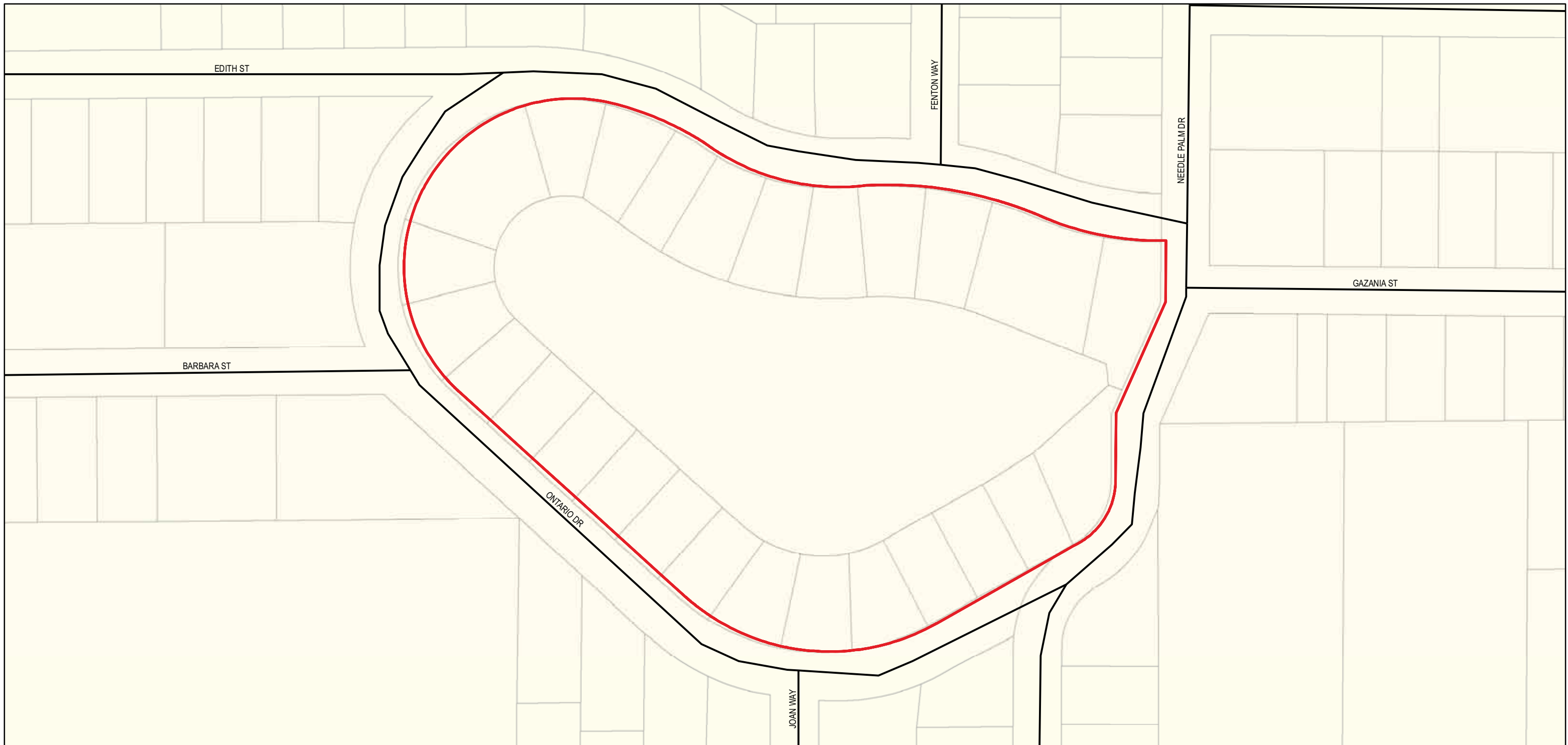
Repetitive Loss Area No. 6: Lake Terrace Subdivision

Repetitive Loss Area No. 6 is located west of U.S. 19 and south of Gulf Harbors in Section 18, Township 26 South, Range 16 East. The events attributed to flooding in this area are 11 and 14.

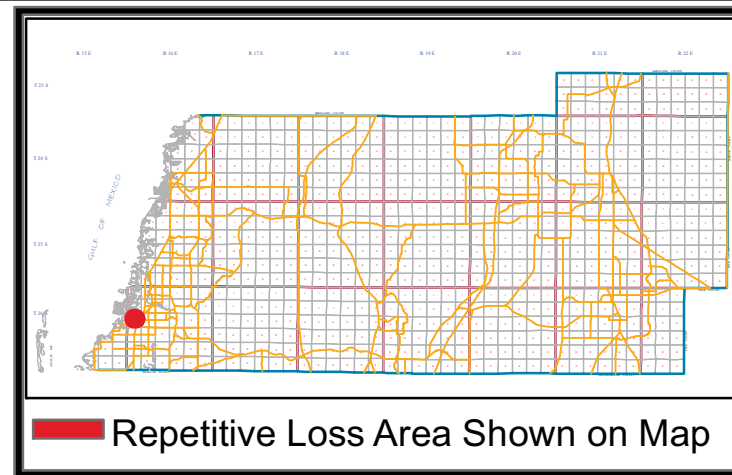
Repetitive Loss Area No. 6 includes one repetitive loss property. This area consists of homes built in the 1970's and early 1980's. All homes surround a retention area, which overflows during some storm events. There are a total of 23 structures located within this area. Of those, 22 are pre-FIRM and one is post-FIRM. The flood zone in this area is "A13" with BFE of 12 feet. The average grade elevation in this area ranges from five to six feet. The structures consist of the following types:

TYPE OF STRUCTURE	PRE-FIRM	POST-FIRM
Single-Family Residential, Single-Family Villas	22	1
Mobile Homes	0	0
Multifamily (less than five units)	0	0
Multifamily (five or more units)	0	0
Condominium	0	0
Multi Story Retirement Apartments	0	0
Professional Offices or Medical	0	0
Commercial Buildings	0	0
Food-Related Buildings	0	0
Vehicle-Related Buildings	0	0
Financial Institutions	0	0
Hotels and Motels	0	0
Hospitals and Nursing Homes	0	0
Churches	0	0
Storage/Warehouses	0	0
Industrial Buildings	0	0
Social Buildings/Entertainment/Sporting Facilities	0	0
Schools	0	0
Government Buildings/Facilities	0	0
Utility Buildings	0	0
Total Properties with Structures	22	1
Vacant Properties		4
Total Properties	22	5

Repetitive Loss Area No. 6 is in an Evacuation Level A area. Approximately ten hours are needed to evacuate the entire Level A area. Flooding in this area occurs at times of heavy rainfall and high tide which causes the retention pond to overflow. Flooding in this area has been relatively minor. Development and redevelopment in this area consists of home improvements and repairs. Substantially improved or damaged structures are required to comply with the standards for new construction.



1 inch equals 100 feet



PASCO COUNTY FLORIDA

Geographic Information Systems Division (GIS)
Survey Department
Engineering Services



Title: Sections 18 TWP 26 S RNG. 16 E.

RLA 6 - Lake Terrace

Created By: E.C.D

Date: 02-12-2009

Reviewed By: C.J.

Source Data:
Pasco County Property Appraiser
Pasco County GIS
Pasco County Development Review

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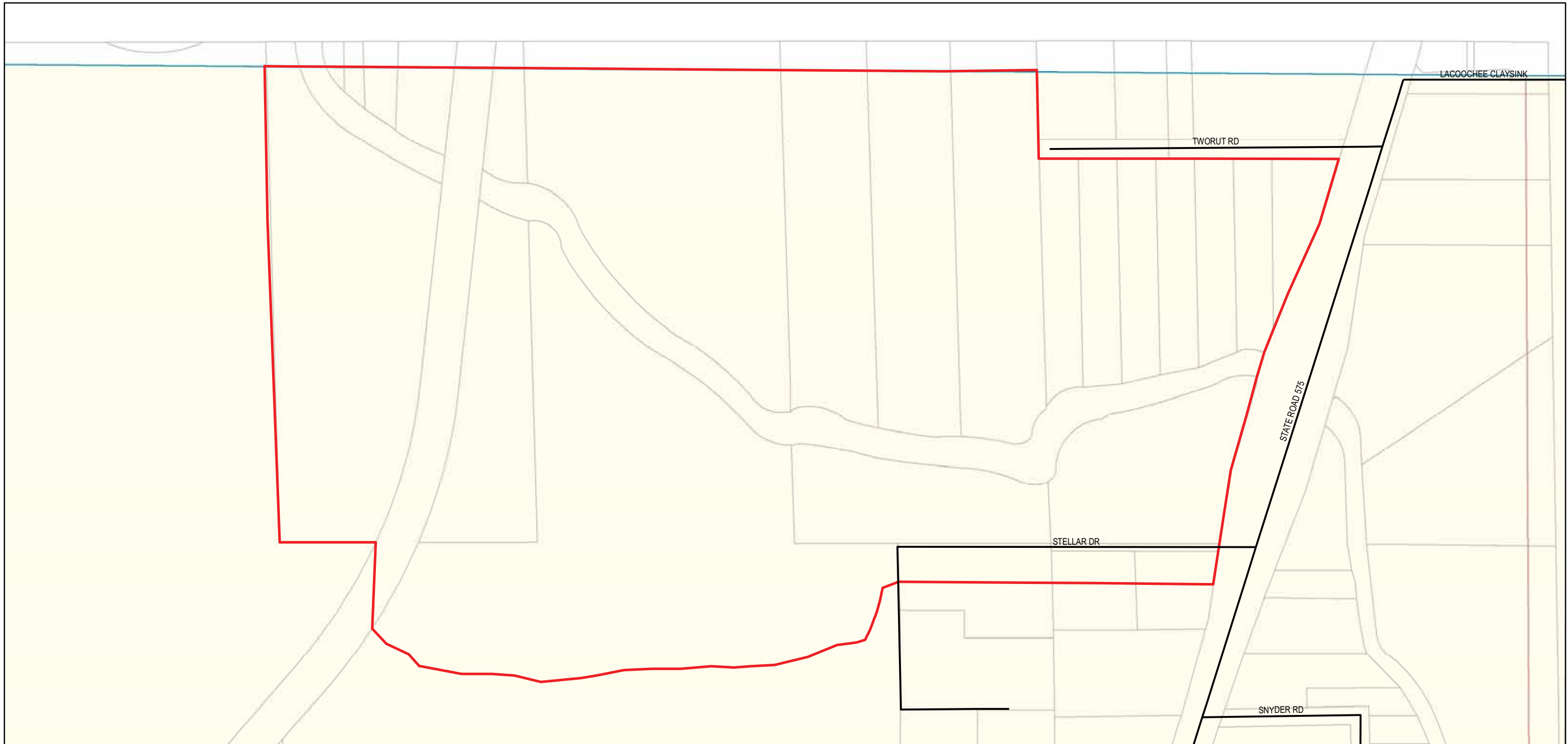
Repetitive Loss Area No. 7: Withlacoochee

Repetitive Loss Area No. 7 is located west of C.R. 575 in the extreme northeast of Pasco County, in Section 24, Township 23 South, Range 21 East, along the Withlacoochee River. The events attributed to flooding in this area are 11, 14, 15, and 32.

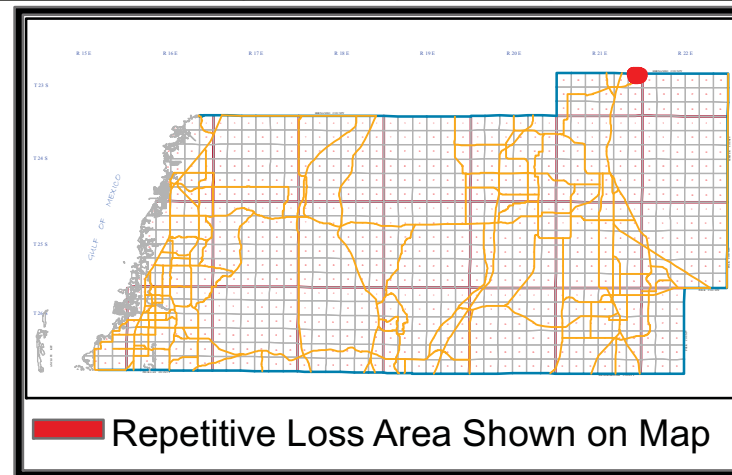
Repetitive Loss Area No. 7 includes two repetitive loss properties. This area consists of large acre lots with homes built prior to the County's adoption of NFIP. During some rainfall events, the Withlacoochee River will top its banks, and low-lying flooding occurs approximately one-half mile in each direction. There are a total of 8 structures located within this area. Of those, three are pre-FIRM and five are post-FIRM. The flood zone in this area is "A9" with BFE of 71 feet. The average grade elevation in this area ranges from 59 to 68 feet. The structures consist of the following types:

TYPE OF STRUCTURE	PRE-FIRM	POST-FIRM
Single-Family Residential, Single-Family Villas	1	3
Mobile Homes	2	2
Multifamily (less than five units)	0	0
Multifamily (five or more units)	0	0
Condominium	0	0
Multi Story Retirement Apartments	0	0
Professional Offices or Medical	0	0
Commercial Buildings	0	0
Food-Related Buildings	0	0
Vehicle-Related Buildings	0	0
Financial Institutions	0	0
Hotels and Motels	0	0
Hospitals and Nursing Homes	0	0
Churches	0	0
Storage/Warehouses	0	0
Industrial Buildings	0	0
Social Buildings/Entertainment/Sporting Facilities	0	0
Schools	0	0
Government Buildings/Facilities	0	0
Utility Buildings	0	0
Total Properties with Structures	3	5
Vacant Properties		17
Total Properties	3	22

Repetitive Loss Area No. 7 is not in a designated evacuation zone except for the mobile home structures. Flooding in this area is due to the Withlacoochee River overflowing. Development and redevelopment in this area consists of home improvements and repairs. No structures in this area have been substantially improved or substantially damaged.



1 inch equals 250 feet



PASCO COUNTY FLORIDA Geographic Information Systems Division (GIS) Survey Department Engineering Services		
Title: Sections 24 TWP 23 S RNG. 21 E. RLA 7 -Withlacochee		
Created By: E.C.D	This map is for informational purposes only. The data contained herein is not collected under the supervision of, or approved by, a licensed surveyor. It is not intended for any legal use. The data does not meet the minimum technical standards under the Florida Administrative Code 61G17-6. The Pasco County Board of County Commissioners does not accept any responsibility for errors or omissions of any kind contained in the data herein. All products and derivations from the data contained herein must retain this disclaimer.	
Date: 02-12-2009		
Reviewed By: C.J.		
Source Data: Pasco County Property Appraiser Pasco County GIS Pasco County Development Review		

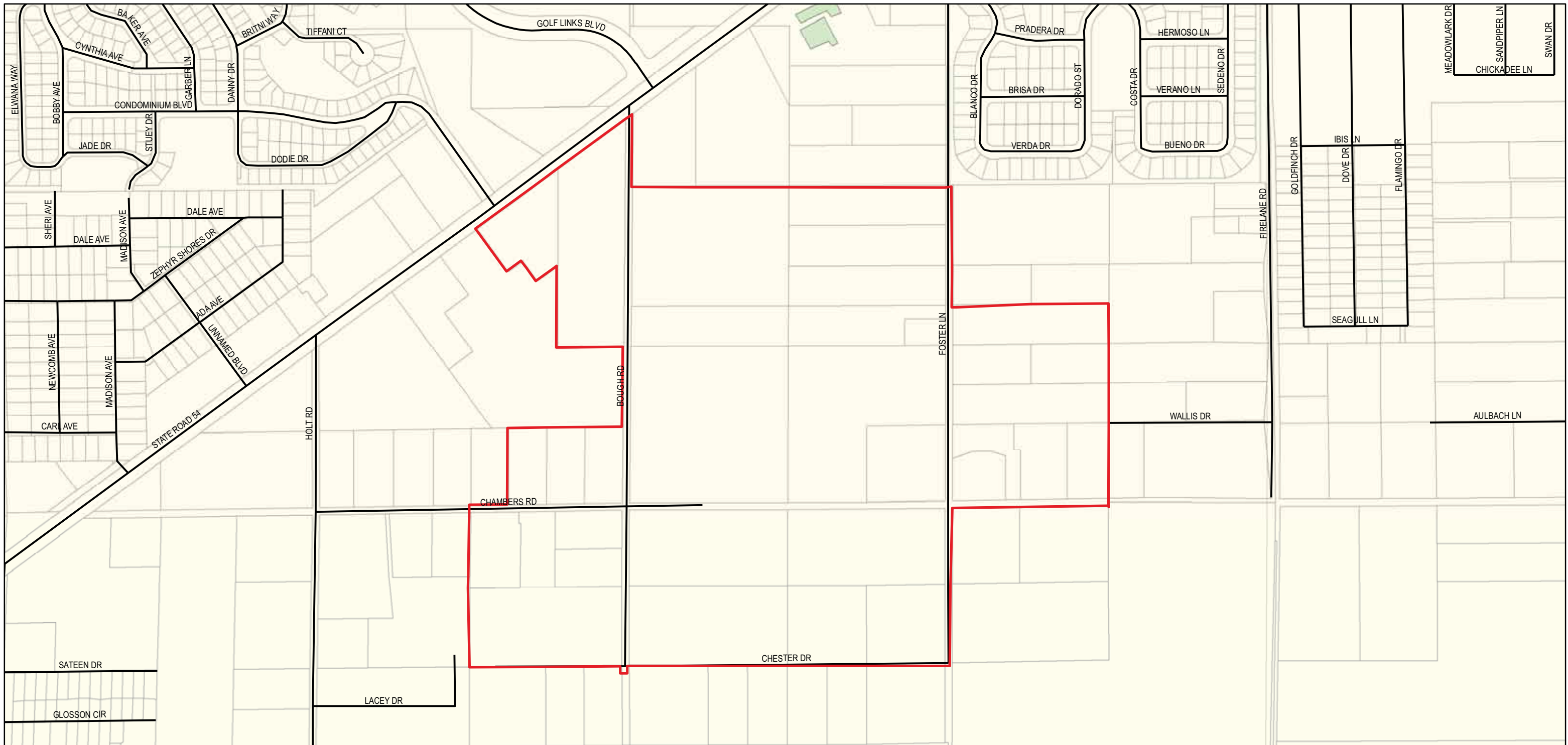
Repetitive Loss Area No. 8: Lake Bernadette Outfall

Repetitive Loss Area No. 8 is located south of S.R. 54 and to the west of the City of Zephyrhills, in Section 17, Township 26 South, Range 21 East. The events attributed to flooding in this area are two and seven.

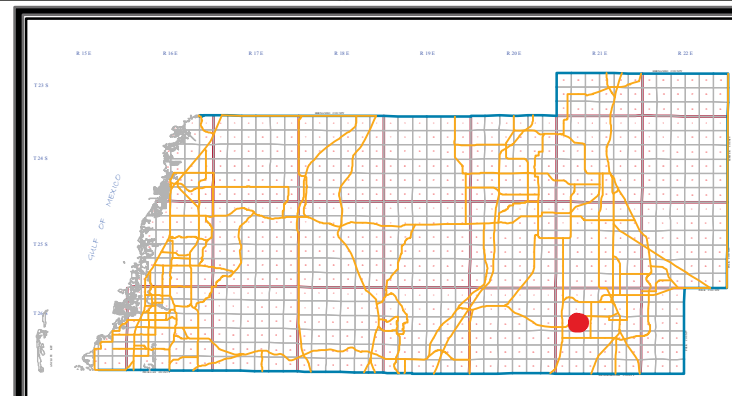
Repetitive Loss Area No. 8 includes one repetitive loss property. There are a total of 29 structures located within this repetitive loss area. Of those, 11 are pre-FIRM and 18 are post-FIRM. The flood zone in this area is "A" with a base flood elevation of 81 feet. The average grade in this area is 78 feet. The structures consist of the following types:

TYPE OF STRUCTURE	PRE-FIRM	POST-FIRM
Single-Family Residential, Single-Family Villas	3	3
Mobile Homes	5	11
Multifamily (less than five units)	3	3
Multifamily (five or more units)	0	0
Condominium	0	0
Multi Story Retirement Apartments	0	0
Professional Offices or Medical	0	0
Commercial Buildings	0	1
Food-Related Buildings	0	0
Vehicle-Related Buildings	0	0
Financial Institutions	0	0
Hotels and Motels	0	0
Hospitals and Nursing Homes	0	0
Churches	0	0
Storage/Warehouses	0	0
Industrial Buildings	0	0
Social Buildings/Entertainment/Sporting Facilities	0	0
Schools	0	0
Government Buildings/Facilities	0	0
Utility Buildings	0	0
Total Properties with Structures	11	18
Vacant Properties		4
Total Properties	11	22

The one repetitive loss property is located at the natural low point of the area which serves as the natural retention area for runoff. Berms have been installed around the property to divert the runoff. This area was developed prior to the County joining NFIP. This repetitive loss area is not in a designated evacuation zone.



1 inch equals 400 feet



Repetitive Loss Area Shown on Map

PASCO COUNTY FLORIDA

Geographic Information Systems Division (GIS)
Survey Department
Engineering Services



Title: Sections 17 TWP 26 S RNG. 21 E.

RLA 8 - Lake Bernadette

Created By: E.C.D

Date: 02-12-2009

Reviewed By: C.J.

Source Data:

Pasco County Property Appraiser
Pasco County GIS
Pasco County Development Review

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Repetitive Loss Area No. 9: West Port/Salt Springs

Repetitive Loss Area No. 9 is located west of U.S. 19 and south of Fox Hollow Drive, in Sections 20 and 21, Township 25 South, Range 16 East. The events attributed to flooding in this area are 11, 18, 23, and 27.

Repetitive Loss Area No. 9 includes 12 repetitive loss properties. There are a total of 499 structures located within this repetitive loss area. Of those, 420 are pre-FIRM and 79 are post-FIRM. This area consists of residential homes built in the 1970's. This area is developed with few vacant lots remaining. The storm sewer system within the southeastern portion of West Port Subdivision drains to a ditch that parallels the rear lot line of homes located along the south side of Westport Drive. Storm sewers extend north from the ditch and tie into curb inlets located along the north and south sides of Westport Drive and Sea Breeze Drive. The ditch continues west along the southern limits of the subdivision and eventually discharges to a tidal creek centerline. Elevations of Westport Drive and Sea Breeze Drive are as low as 5.2 feet National Geodetic Vertical Datum.

Flooding problems within the area appear to result from the low elevation of the subdivision relative to the hydraulic profile of the outfall ditch, from limited storm sewer capacity, and from relatively flat road grades and cross slopes. Cleaning the outfall ditch may have some affect on hydraulic profiles. However, it is likely that the hydraulic profile is largely a reflection of tidal conditions.

The frequency of flooding may be reduced by replacing the existing curb inlets as the inlet throats are very narrow, installing eight additional inlets, repaving the road, and cleaning approximately 2,000 linear feet of outfall ditch. The additional inlets are needed due to the relatively flat road profiles and due to the wide spacing between existing inlets. The 1995 estimated cost to complete these conceptual improvements is \$318,000.00.

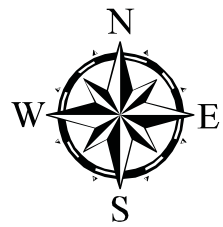
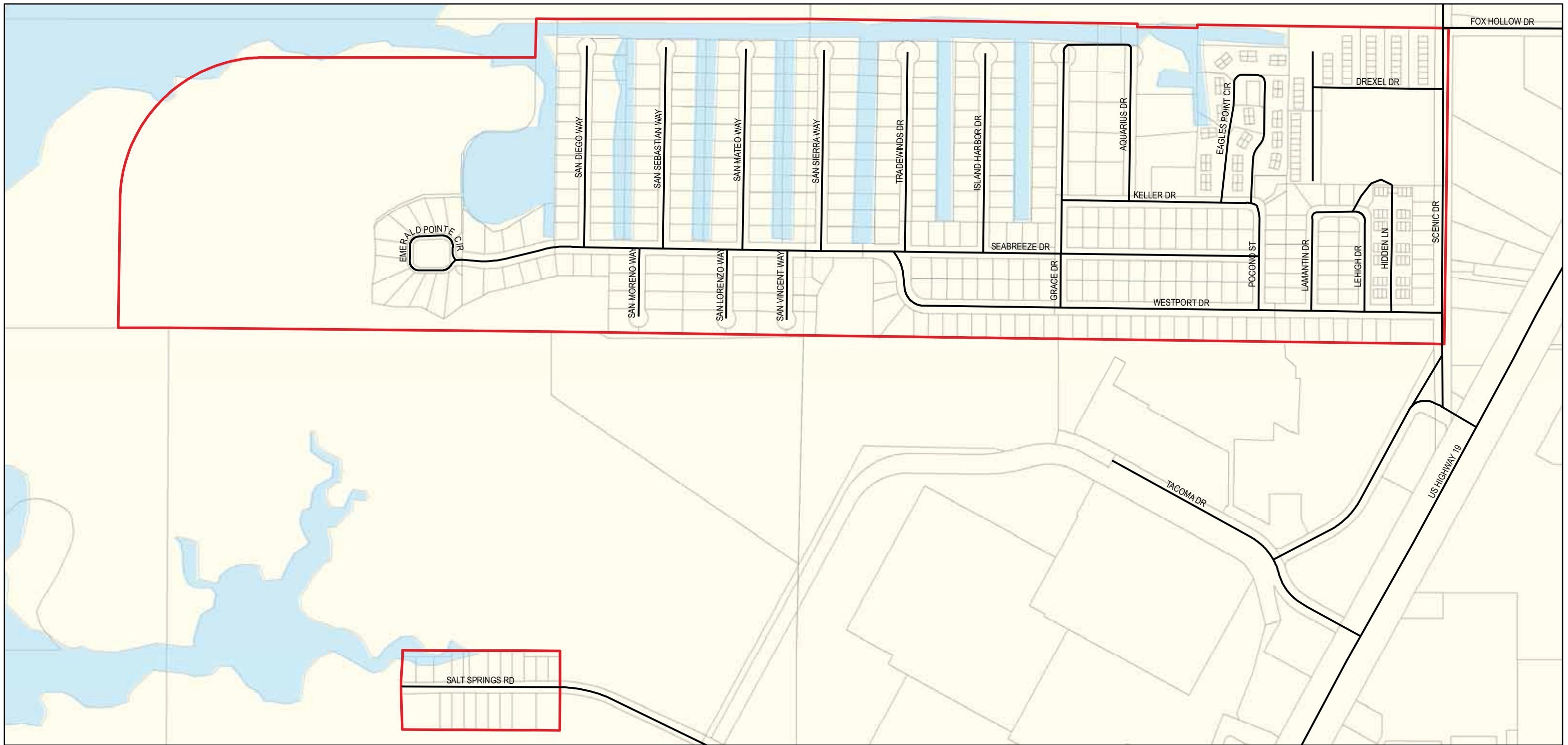
It should be noted that this conceptual improvement plan was developed without the aid of detailed survey data or modeling. The conceptual plan assumes that cleaning the outfall ditch may have an affect on the hydraulic profiles. However, the hydraulic profiles of the outfall ditch are often a reflection of tidal conditions. It is also unclear if the existing storm sewers have adequate capacity. A stormwater modeling evaluation of the existing system and any proposed improvements is needed to determine the affects of the proposed improvements. Due to limited budget in 1996, the Board of County Commissioners authorized only the cleaning of the ditch to provide some relief to the area.

The flood zones in this area range from "A13" to "V17," with BFE ranging from 12 to 15 feet. The average grade elevation in this area ranges from five to eight feet. The structures in this area consist of the following types:

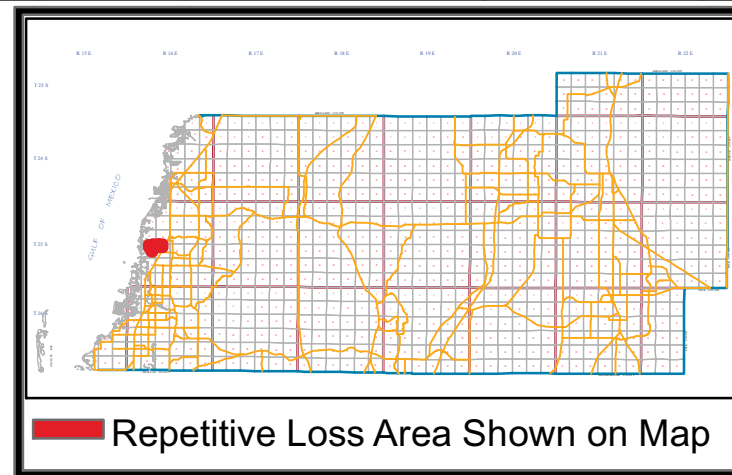
TYPE OF STRUCTURE	PRE-FIRM	POST-FIRM
Single-Family Residential, Single-Family Villas	276	40
Mobile Homes	1	0
Multifamily (less than five units)	7	1
Multifamily (five or more units)	12	0

Condominium	122	37
Multi Story Retirement Apartments	0	0
Professional Offices or Medical	0	0
Commercial Buildings	1	1
Food-Related Buildings	0	0
Vehicle-Related Buildings	0	0
Financial Institutions	0	0
Hotels and Motels	0	0
Hospitals and Nursing Homes	0	0
Churches	0	0
Storage/Warehouses	0	0
Industrial Buildings	0	0
Social Buildings/Entertainment/Sporting Facilities	1	0
Schools	0	0
Government Buildings/Facilities	0	0
Utility Buildings	0	0
Total Properties with Structures	420	79
Vacant Properties		68
Total Properties	420	147

Repetitive Loss Area No. 9 is in an Evacuation Level A area. Approximately ten hours are needed to evacuate the entire Level A area. Development and redevelopment in this area consists of home improvements and repairs, and redevelopment of business properties. Substantially improved or damaged structures are required to comply with the standards for new construction.



1 inch equals 400 feet



PASCO COUNTY FLORIDA
 Geographic Information Systems Division (GIS)
 Survey Department
 Engineering Services



Title: Sections 20 & 21 TWP 26 S RNG. 21 E.

RLA 9 - Westport / Salt Springs

Created By: E.C.D
 Date: 02-12-2009
 Reviewed By: C.J.
 Source Data:
 Pasco County Property Appraiser
 Pasco County GIS
 Pasco County Development Review

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Repetitive Loss Area No. 10: Grove Park

Repetitive Loss Area No. 10 is located south of S.R. 54 and east of U.S. 19, in Section 19, Township 26 South, Range 16 East. The events attributed to flooding in this area are 15, 25, and 27.

Repetitive Loss Area No. 10 included two repetitive loss properties (one of which has been demolished). There are a total of 51 structures located within this repetitive loss area. Of these, all 51 are pre-FIRM. This area, known as Grove Park, Unit 4, consists of residential and commercial structures built in the 1960's. At the time the area was constructed, Pasco County did not have drainage or site development regulations enacted. Drainage improvements were not required by regulation and, therefore, were at the discretion of the developer.

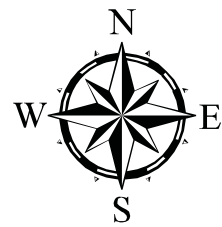
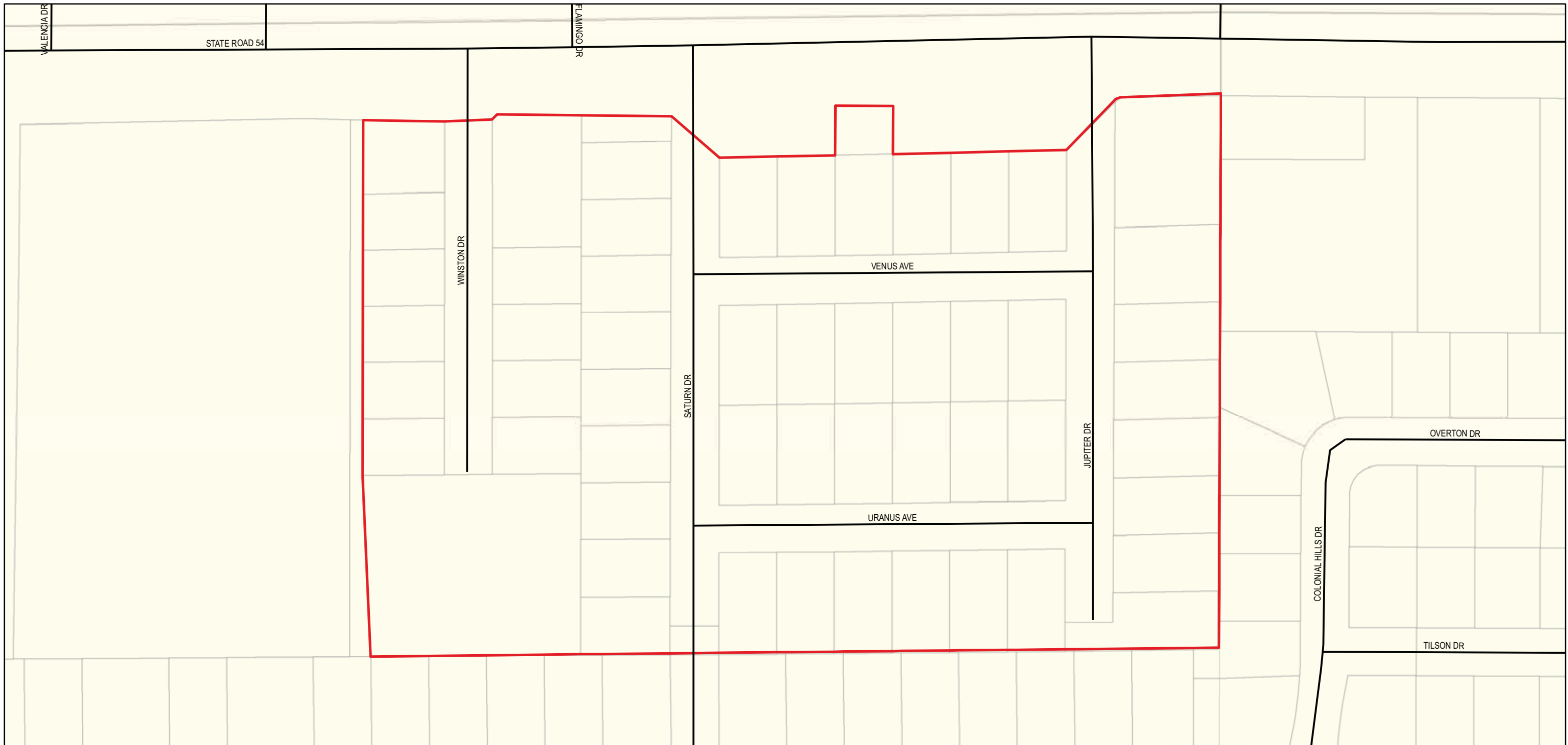
The retention pond located at the southernmost end of Winston Drive was built in the mid-1970 by Beacon Construction Company to alleviate flooding in Beacon Hill Subdivision, Units 1 and 2. The retention pond was deeded to the County in 1979. Improvements to the pond were later constructed, consisting of widening and deepening the pond and an addition of drainage pipes into the pond from Grove Park, Unit 4. Although the drainage pipes assisted in the relief of stormwater runoff, the pond was never designed to alleviate all of the flooding in the area. To alleviate flooding in this area, the construction of a stormwater drainage system and additional drainage retention areas would be needed along with a funding source.

The average grade elevation in this area ranges from 25 to 26 feet. The structures in this area consist of the following types:

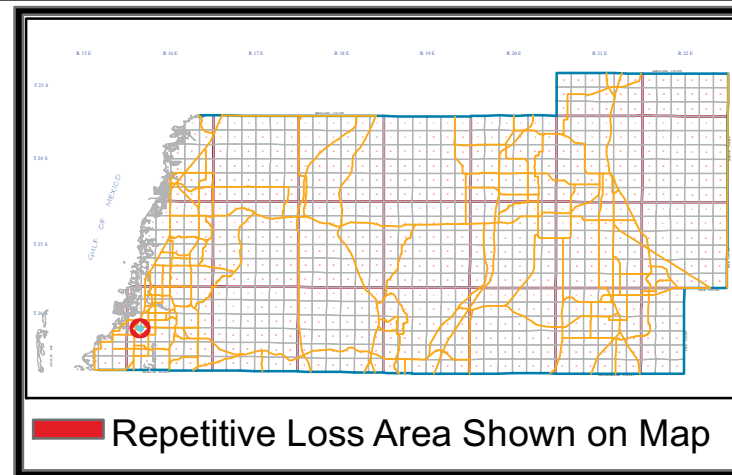
TYPE OF STRUCTURE	PRE-FIRM	POST-FIRM
Single-Family Residential, Single-Family Villas	51	0
Mobile Homes	0	0
Multifamily (less than five units)	0	0
Multifamily (five or more units)	0	0


Condominium	0	0
Multi Story Retirement Apartments	0	0
Professional Offices or Medical	0	0
Commercial Buildings	0	0
Food-Related Buildings	0	0
Vehicle-Related Buildings	0	0
Financial Institutions	0	0
Hotels and Motels	0	0
Hospitals and Nursing Homes	0	0
Churches	0	0
Storage/Warehouses	0	0
Industrial Buildings	0	0
Social Buildings/Entertainment/Sporting Facilities	0	0
Schools	0	0
Government Buildings/Facilities	0	0
Utility Buildings	0	0
Total Properties with Structures	51	0
Vacant Properties		6
Total Properties	51	6

Repetitive Loss Area No. 10 is not in a designated evacuation zone. Development and redevelopment in this area consists of home improvements and repairs, and redevelopment of business properties.



1 inch equals 100 feet



PASCO COUNTY FLORIDA Geographic Information Systems Division (GIS) Survey Department Engineering Services		
Title: Sections 19 TWP 26 S RNG. 16 E. RLA 10 - Grove Park		
Created By: E.C.D	This map is for informational purposes only. The data contained herein is not collected under the supervision of, or approved by, a licensed surveyor. It is not intended for any legal use. The data does not meet the minimum technical standards under the Florida Administrative Code 61G17-6. The Pasco County Board of County Commissioners does not accept any responsibility for errors or omissions of any kind contained in the data herein. All products and derivations from the data contained herein must retain this disclaimer.	
Date: 02-12-2009		
Reviewed By: C.J.		
Source Data: Pasco County Property Appraiser Pasco County GIS Pasco County Development Review		

Repetitive Loss Area No. 11: Aurora Drive

Repetitive Loss Area No. 11 is located north of Massachusetts Avenue and west of Rowan Road, in Section 33, Township 25 South, Range 16 East. The events attributed to flooding in this area are 1, 2, 17, 19, 20, 27, and 32.

Repetitive Loss Area No. 11 includes two repetitive loss properties. There are a total of 97 structures located within this repetitive loss area. Of those, 90 are pre-FIRM and 7 are post-FIRM. This area consists of a mixture of older residential and commercial properties built within a 24.33-acre closed, drainage basin. The area does not lie within a designated flood zone. High water levels within a small pond just west of Aurora Drive and Carnelian Avenue have caused restrictions to at least two homes and an automobile repair shop on numerous occasions. The automobile repair shop on the north side of the pond has also experienced flooding due to the overflow of stormwater from a drainage ditch, which is located immediately west of the automobile repair shop.

This area lies within a 24.33-acre closed, drainage basin. There are 123 parcels within the drainage basin. The small retention pond is located at the lowest point within the basin. The storage volume of the pond is recovered only through infiltration. During mean annual storm events with approximately five inches of rainfall in 24 hours, the rate of infiltration and storage capacity of the pond are sufficient to prevent flooding of homes and only minor flooding of Aurora Drive. During ten-year storm events with eight inches of rainfall in 24 hours, the storage capacity of the pond is exceeded and Aurora Drive becomes flooded. Events larger than a ten-year storm event have caused flooding to buildings, including a duplex, a home, and an automobile repair shop, and have caused Aurora Drive to be impassible with high water levels.

The frequency of flooding within this closed drainage basin could be reduced by expanding the existing pond to provide additional storage. Expansion of the existing pond would require property acquisition, demolition of existing buildings, and construction. The following paragraphs represent various estimates/options developed by County staff for the Aurora Drive area:

1. Estimate No. 1; Retrofit the Basin to Current Standards. Since this area is a closed basin, current standards require that the stormwater system must handle a 100-year storm event, which is the equivalent of 12 inches of rainfall in 24 hours. Therefore, 24 acre-feet of stormwater storage would be required. To accomplish this, a retention area of three acres would be required. The pond would require the purchase of 14 properties and the partial closure of Aurora Drive, Carnelian Avenue, and Temple Avenue. The 1995 total estimated cost, which includes design costs, land acquisition, demolition of structures, and construction, is \$1,292,000.00.
2. Estimate No. 2; Construct a 0.50-Acre Pond. Due to the extreme cost of Estimate No. 1, other estimates were developed which would reduce the flooding only. Estimate No. 2 considers the construction of a 0.50-acre retention pond. The existing pond would be expanded to the north and would require the purchase of two properties. This option would not require street closure in the subdivision. This pond would improve the storage capacity of the drainage basin for up to a five-year storm event (seven inches of rainfall in 24 hours). The 1995 total estimated cost, which includes design costs, land acquisition, demolition of structures, and construction, is \$198,000.00.
3. Estimate No. 3, Purchase Affected Properties. Estimate No. 3 considers the purchase of the four properties that are flood prone and does not include the costs to construct an expansion of the pond. This option would allow the possibility of expanding the pond in the future. The 1995 total estimated cost, which includes land acquisition and demolition of the existing structures, is \$226,000.00.
4. Estimate No. 4; Construct a 0.45-Acre Pond. Estimate No. 4 considers the construction of a 0.45-acre retention pond by expanding the pond to the north and west, and would require the purchase of two properties. This project would require the closure of a portion of Aurora Drive, but would not deny access to homeowners within the subdivision. This pond would improve the storage capacity of the drainage basin

for up to a ten-year storm event (eight inches of rainfall in 24 hours). The 1995 total estimated cost, which includes design costs, land acquisition, demolition of structures, and construction, is \$140,500.00.

5. Estimate No. 5, Build a Lift Station. Estimate No. 5 considers building a pumping station adjacent to the existing pond and piping the excess stormwater to a newly constructed 2.4-acre retention pond on the south side of Massachusetts Avenue. This estimate would require the purchase of one commercially zoned property. This estimate would improve the storage capacity of the drainage basin for up to a 100-year storm event (12 inches of rainfall in 24 hours). The 1995 total estimated cost, which includes design costs, land acquisition, and construction, is \$680,000.00.

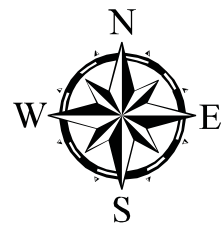
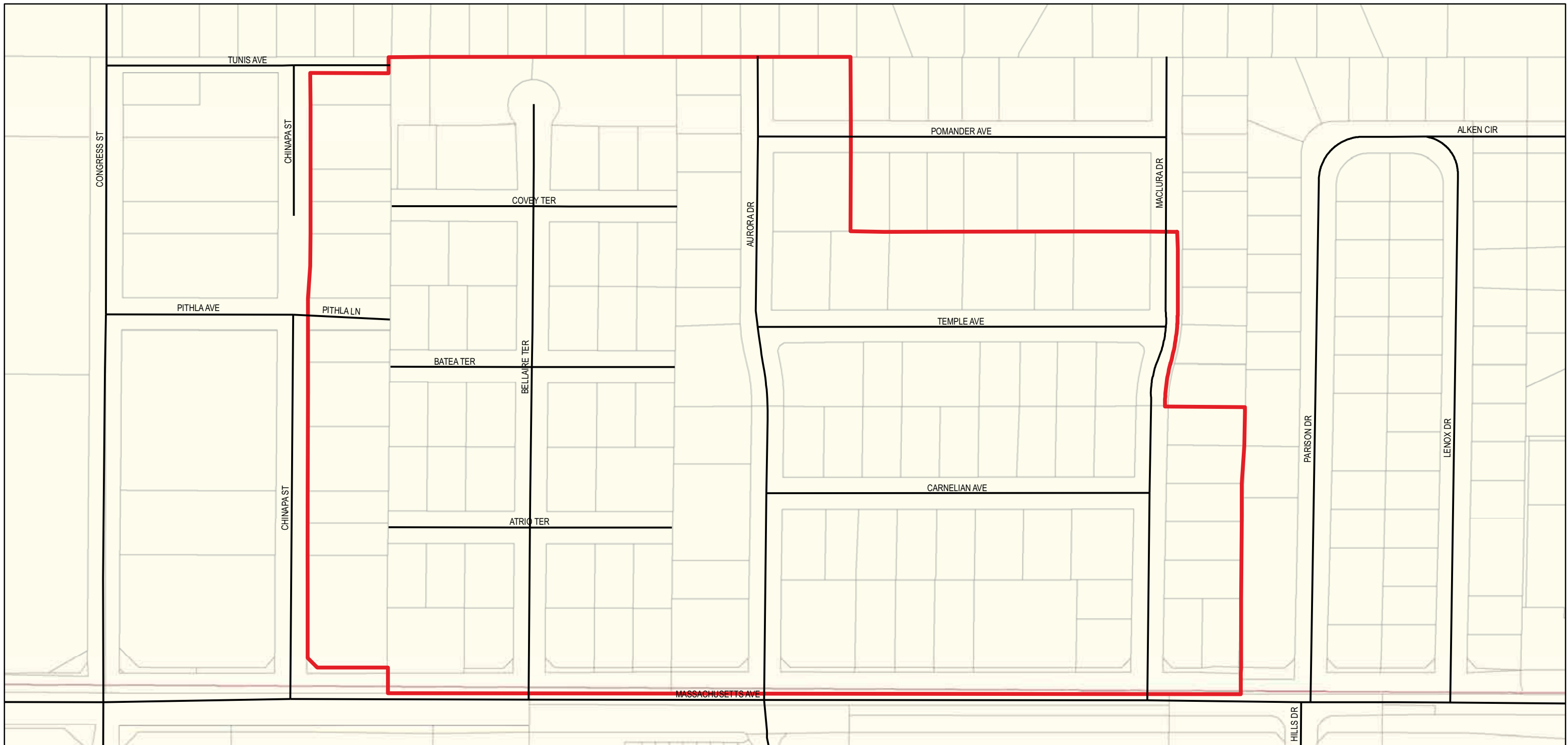
Please note that all of the above estimates, with the exception of Estimate No. 3, will require annual operation and maintenance expenses ranging from \$1,500.00 to \$3,000.00 per year. There currently is no funding available for construction of any drainage improvements in this or any other problem area. Since funding sources to construct any drainage improvement do not exist at this time, the Board of County Commissioners selected not to proceed with the project.

The structures in this area consist of the following types:

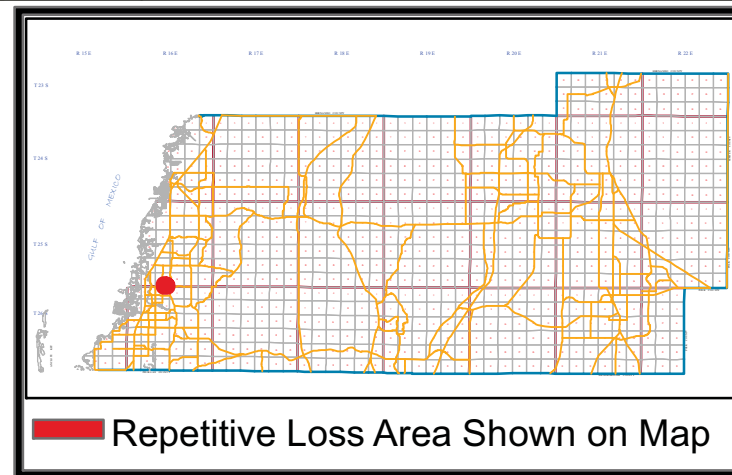
TYPE OF STRUCTURE	PRE-FIRM	POST-FIRM
Single-Family Residential, Single-Family Villas	63	5
Mobile Homes	2	0
Multifamily (less than five units)	13	2
Multifamily (five or more units)	0	0

Condominium	0	0
Multi Story Retirement Apartments	0	0
Professional Offices or Medical	0	0
Commercial Buildings	5	0
Food-Related Buildings	1	0
Vehicle-Related Buildings	3	0
Financial Institutions	0	0
Hotels and Motels	0	0
Hospitals and Nursing Homes	0	0
Churches	0	0
Storage/Warehouses	2	0
Industrial Buildings	0	0
Social Buildings/Entertainment/Sporting Facilities	0	0
Schools	0	0
Government Buildings/Facilities	1	0
Utility Buildings	0	0
Total Properties with Structures	90	7
Vacant Properties		26
Total Properties	90	33

Repetitive Loss Area No. 11 is in an Evacuation Level C area, which is the third level to be evacuated. Approximately 11 hours are needed to evacuate the entire Level C area. Development and redevelopment in this area consists of home improvements and repairs, and redevelopment of business properties.



1 inch equals 150 feet



PASCO COUNTY FLORIDA

Geographic Information Systems Division (GIS)
Survey Department
Engineering Services



Title: Sections 33 TWP 25 S RNG. 16 E.

RLA 11 - Aurora Drive

Created By: E.C.D.
Date: 02-12-2009
Reviewed By: C.J.
Source Data:
Pasco County Property Appraiser
Pasco County GIS
Pasco County Development Review

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Repetitive Loss Area No. 12: Aripeka

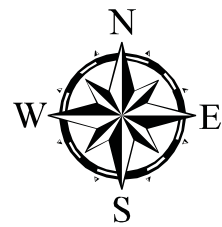
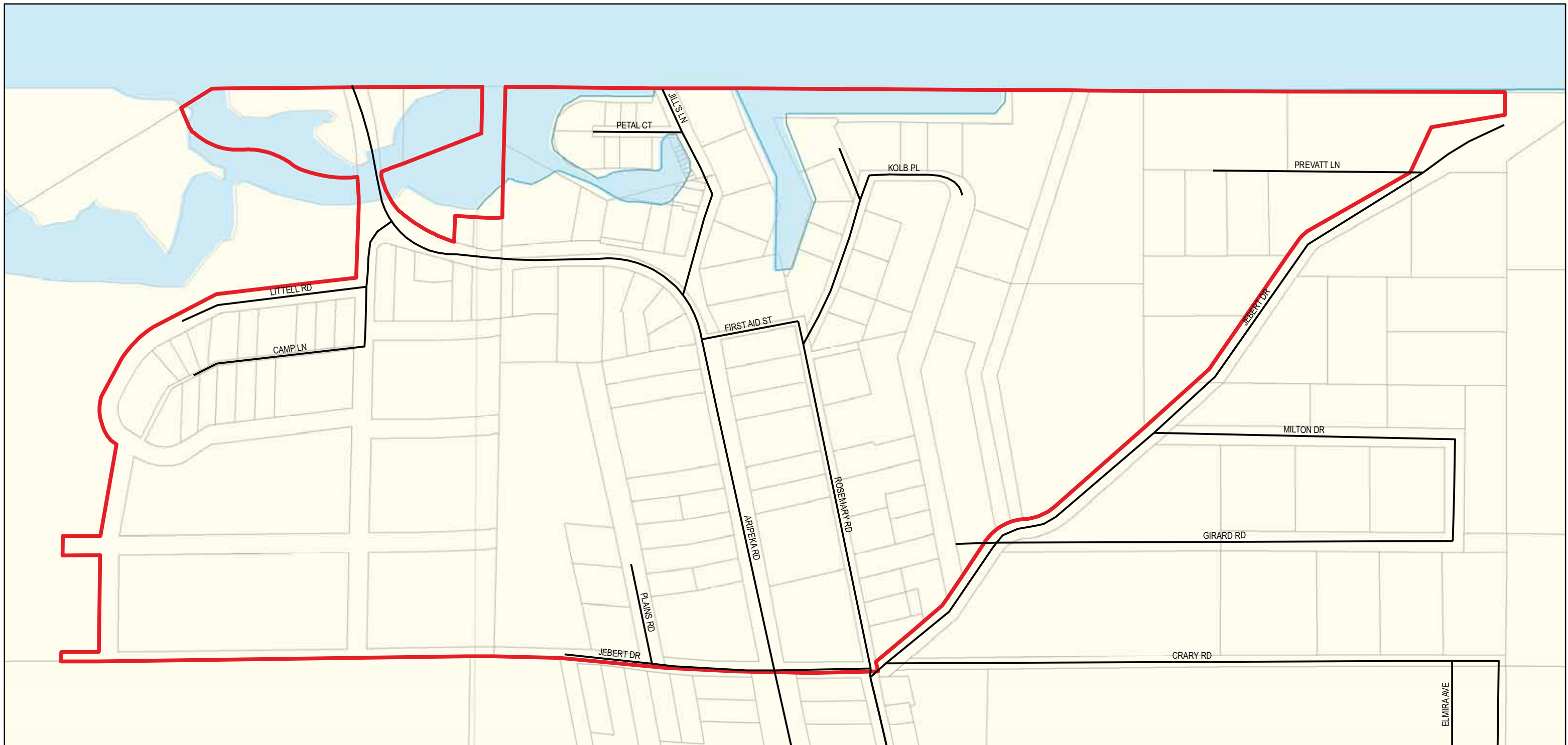
Repetitive Loss Area No. 12 is located west of U.S. 19 and south of Hernando County line in Sections 1 and 2, Township 24 South, Range 16 East. The events attributed to flooding in this are 11, 23, and 31.

Repetitive Loss Area No. 12 includes eight repetitive loss properties. There are a total of 87 structures within this repetitive loss area. Of those, 77 are pre-FIRM and 10 are post-FIRM. The majority of the area consists of older homes built in the 1950's and 1960's as a fishing village next to the Gulf of Mexico.

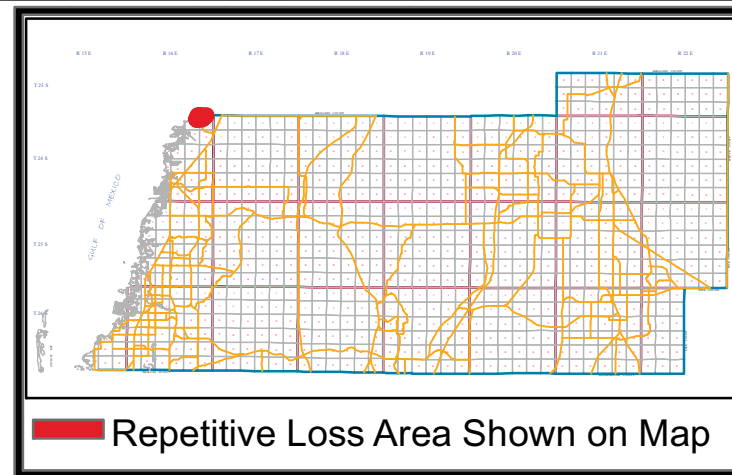
The flood zones in this area range from "A14" to "V18" with BFE ranging from 13 to 17. The average grade in this area ranges from 6 to 18 feet.


TYPE OF STRUCTURE	PRE-FIRM	POST-FIRM
Single-Family Residential, Single-Family Villas	56	9
Mobile Homes	12	1
Multifamily (less than five units)	3	0
Multifamily (five or more units)	0	0
Condominium	0	0
Multi Story Retirement Apartments	0	0
Professional Offices or Medical	1	0
Commercial Buildings	1	0
Food-Related Buildings	0	0
Vehicle-Related Buildings	0	0
Financial Institutions	0	0
Hotels and Motels	0	0
Hospitals and Nursing Homes	0	0
Churches	1	0
Storage/Warehouses	0	0
Industrial Buildings	0	0
Social Buildings/Entertainment/Sporting Facilities	0	0
Schools	0	0
Government Buildings/Facilities	1	0
Utility Buildings	2	0
Total Properties with Structures	77	10
Vacant Properties		60
Total Properties	77	70

Repetitive Loss Area No. 12 is in an Evacuation Level A area which is the first level to be evacuated. Approximately ten hours is needed to evacuate the entire Level A area. Flooding in this area impacts the structure areas first. This in turn hampers evacuation efforts as normal passenger vehicles cannot be used and high-profile vehicles must be used. Past flooding in this area has ranged from a few inches to several feet, causing damage mainly to residential homes. Development and redevelopment in this area consists of home improvements and repairs.



1 inch equals 250 feet



PASCO COUNTY FLORIDA Geographic Information Systems Division (GIS) Survey Department Engineering Services		
Title: Sections 01, 02 TWP 24 S RNG. 16 E. RLA 12 - Aripeka		
Created By: E.C.D. Date: 02-12-2009 Reviewed By: C.J.	<small>This map is for informational purposes only. The data contained herein is not collected under the supervision of, or approved by, a licensed surveyor. It is not intended for any legal use. The data does not meet the minimum technical standards under the Florida Administrative Code 61G17-6. The Pasco County Board of County Commissioners does not accept any responsibility for errors or omissions of any kind contained in the data herein. All products and derivations from the data contained herein must retain this disclaimer.</small>	
Source Data: Pasco County Property Appraiser Pasco County GIS Pasco County Development Review		

Repetitive Loss Area No. 13: Baillies Bluff

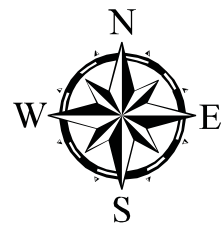
Repetitive Loss Area No. 13 is located west of U.S. 19 in the southern area of Pasco County adjacent to the Gulf of Mexico in Sections 22 and 23, Township 26 South, Range 15 East. The events attributed to flooding in this area are 11, 23, and 33.

Repetitive Loss Area No. 13 includes five repetitive loss properties. There are a total of 50 structures located within this repetitive loss area. Of those, 34 are pre-FIRM and 16 are post-FIRM. The area consists of single-family structures built between 1967 and 1977. The flood zones in this area range from "A13" to "V17," with BFE ranging from 13 to 17 feet. The average grade elevation in this area ranges from 4 to 11 feet.

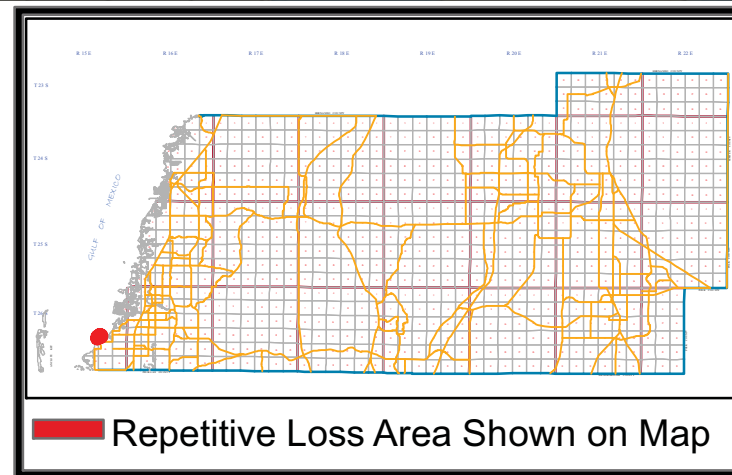
TYPE OF STRUCTURE	PRE-FIRM	POST-FIRM
Single-Family Residential, Single-Family Villas	34	16
Mobile Homes	0	0
Multifamily (less than five units)	0	0
Multifamily (five or more units)	0	0
Condominium	0	0
Multi Story Retirement Apartments	0	0
Professional Offices or Medical	0	0
Commercial Buildings	0	0
Food-Related Buildings	0	0
Vehicle-Related Buildings	0	0
Financial Institutions	0	0
Hotels and Motels	0	0
Hospitals and Nursing Homes	0	0
Churches	0	0
Storage/Warehouses	0	0
Industrial Buildings	0	0
Social Buildings/Entertainment/Sporting Facilities	0	0
Schools	0	0
Government Buildings/Facilities	0	0
Utility Buildings	0	0
Total Properties with Structures	34	16
Vacant Properties		5
Total Properties	34	21


Repetitive Loss Area No. 13 is in an Evacuation Level A area which is the first level to be evacuated. Approximately ten hours is needed to evacuate the entire Level A area. Flooding in this area impacts the roadway

areas first. This in turn hampers evacuation efforts as normal passenger vehicles cannot be used and high-profile vehicles must be used. Past flooding in this area has ranged from a few inches to several feet, causing damage mainly to residential homes. Development and redevelopment in this area consists of home improvements and repairs.



1 inch equals 200 feet



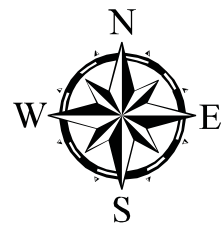
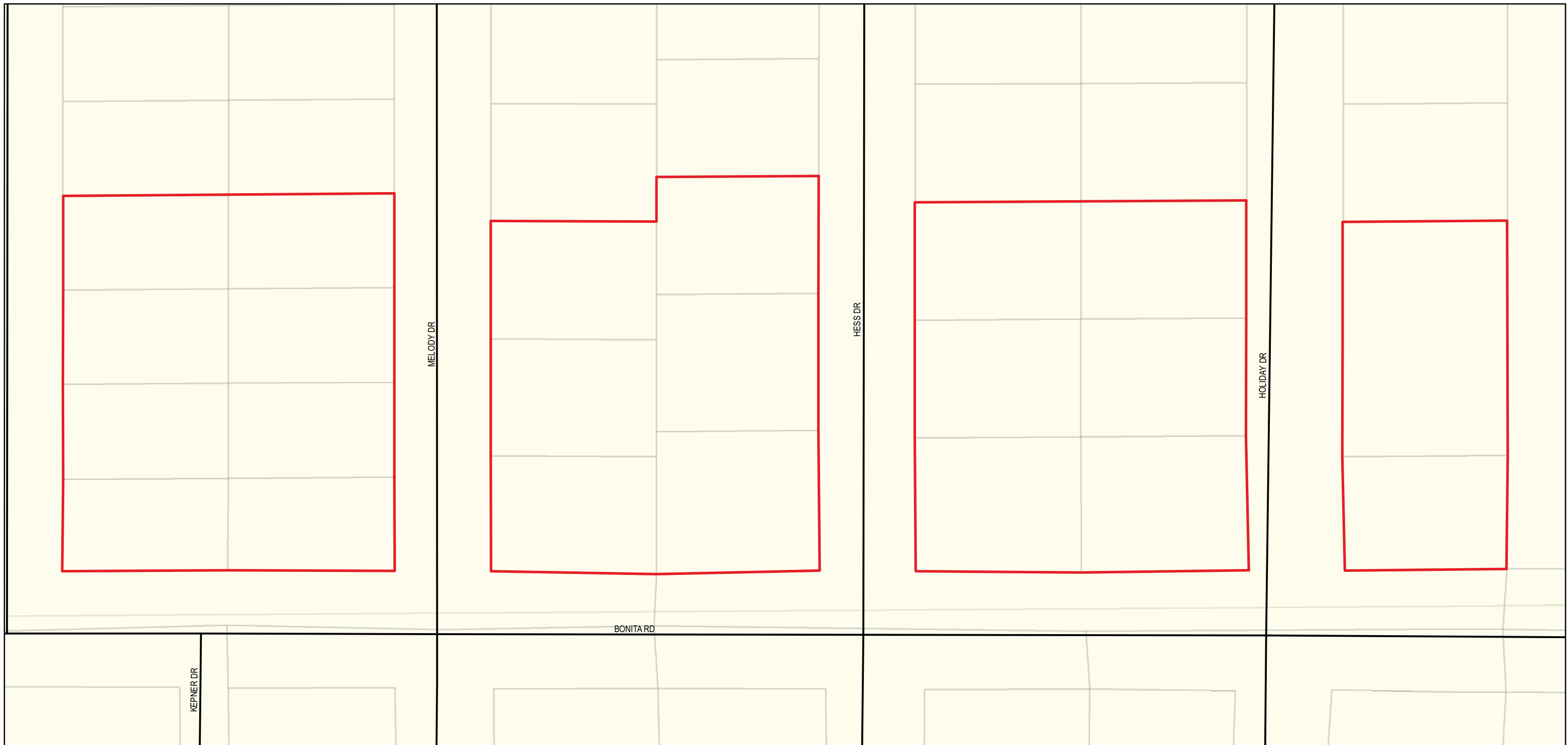
PASCO COUNTY FLORIDA Geographic Information Systems Division (GIS) Survey Department Engineering Services		
Title: Sections 22, 23 TWP 26 S RNG. 15 E. RLA 13 - Baillies Bluff		
Created By: E.C.D	<small>This map is for informational purposes only. The data contained herein is not collected under the supervision of, or approved by, a licensed surveyor. It is not intended for any legal use. The data does not meet the minimum technical standards under the Florida Administrative Code 61G17-6. The Pasco County Board of County Commissioners does not accept any responsibility for errors or omissions of any kind contained in the data herein. All products and derivations from the data contained herein must retain this disclaimer.</small>	
Date: 02-12-2009		
Reviewed By: C.J.		
Source Data: Pasco County Property Appraiser Pasco County GIS Pasco County Development Review		

Repetitive Loss Area No. 14: Bonita

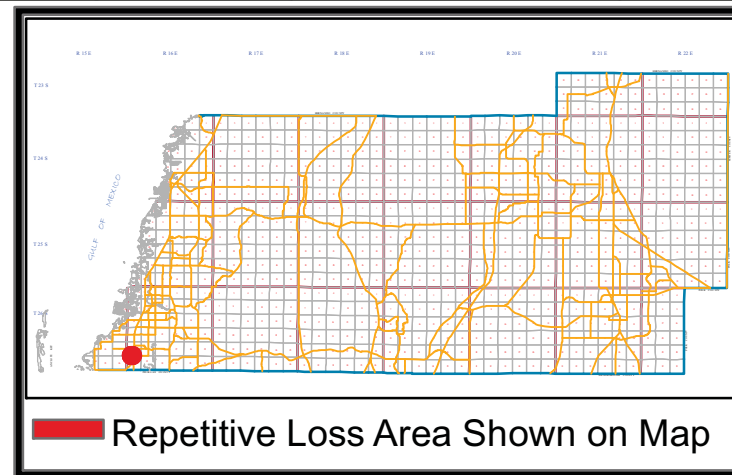
Repetitive Loss Area No. 14 is located west of U.S. 19 in the southern area of Pasco County in Section 30, Township 26 South, Range 16 East. The events attributed to flooding in this area are 1, 2, 32 and 33 and localized flooding issues.

Repetitive Loss Area No. 14 includes two repetitive loss properties which are adjacent to one another. These two properties are at the lowest elevation of the area (elevation 11 ft, msl) and all stormwater runoff ponds at these properties. The area consists of single-family structures built in the mid-1960s. The flood zones in this area range from "A13" to "B," with a BFE ranging of 12 feet. The average grade elevation in this area ranges from 11 to 20 feet.

Repetitive Loss Area No. 14 is in an Evacuation Level A area which is the first level to be evacuated. Approximately ten hours is needed to evacuate the entire Level A area. Flooding in this area impacts the roadway areas first. This in turn hampers evacuation efforts as normal passenger vehicles cannot be used and high-profile vehicles must be used. Past flooding in this area has ranged from a few inches to several feet, causing damage mainly to residential homes. Development and redevelopment in this area consists of home improvements and repairs.



1 inch equals 50 feet



PASCO COUNTY FLORIDA

Geographic Information Systems Division (GIS)
Survey Department
Engineering Services



Title: Sections 30 TWP 26 S RNG. 16 E.

RLA 14 - Bonita

Created By: E.C.D.
Date: 02-12-2009
Reviewed By: C.J.
Source Data:
Pasco County Property Appraiser
Pasco County GIS
Pasco County Development Review

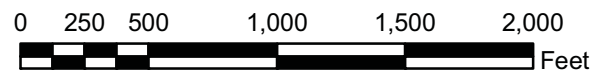
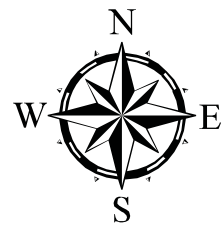
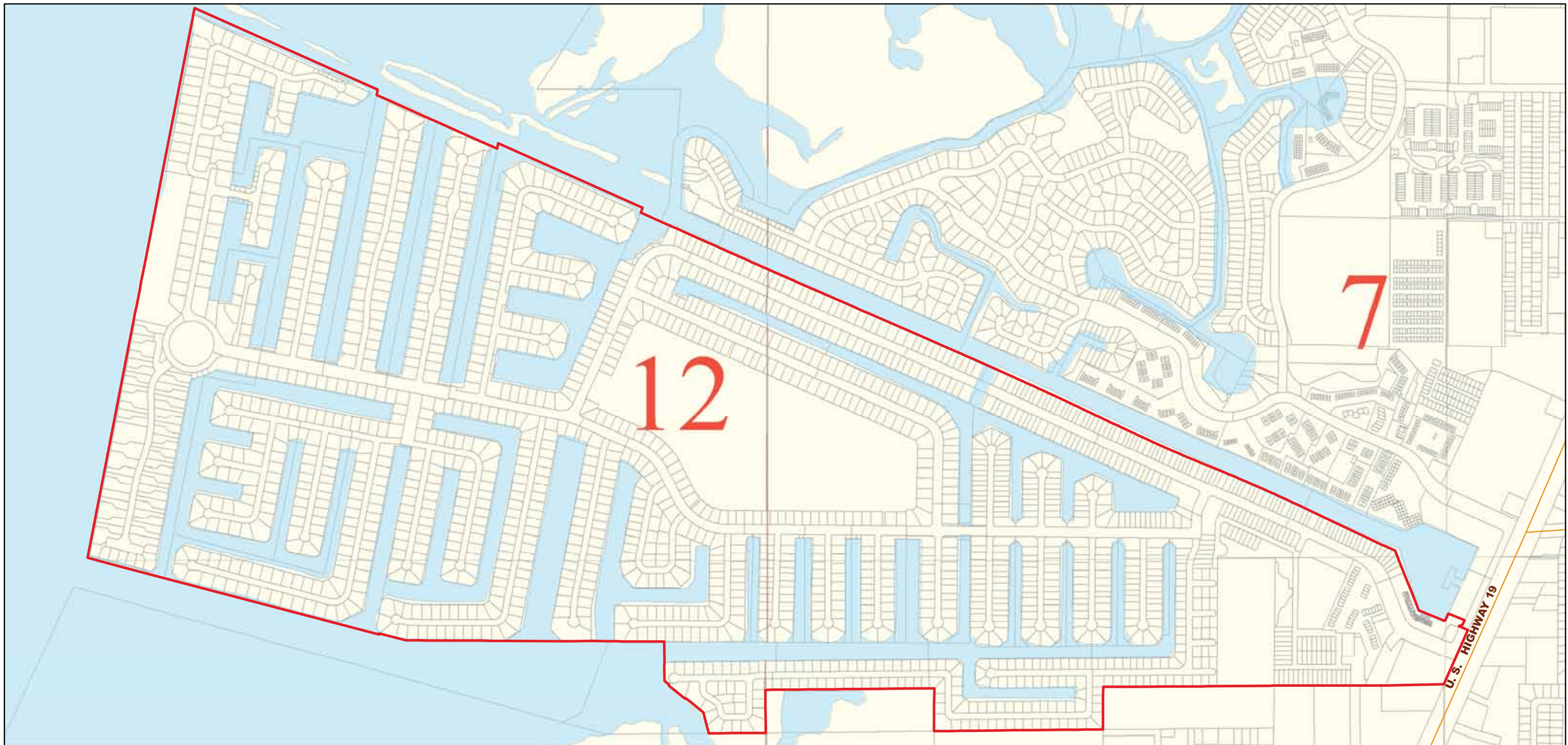
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Repetitive Loss Area No. 15: Flor A Mar

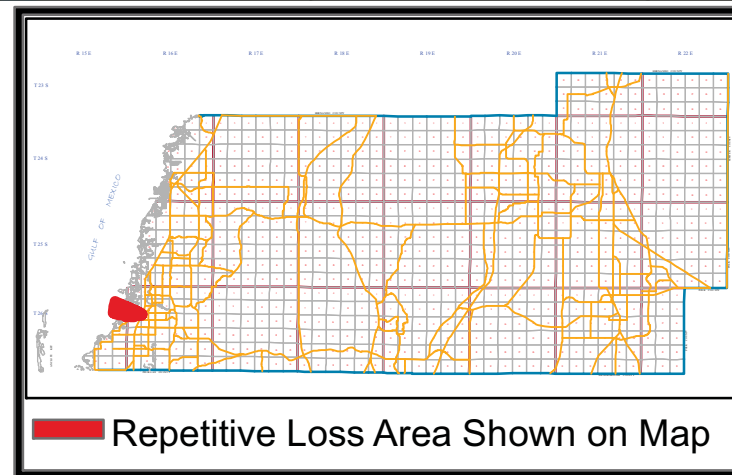
Repetitive Loss Area No. 15 is located west of U.S. 19 in the southern area of Pasco County adjacent to the Gulf of Mexico in Section 12, Township 26 South, Range 15 East. The events attributed to flooding in this area are 23, 24 and 33.


Repetitive Loss Area No. 15 includes four repetitive loss properties. . These four properties are located adjacent to man-made canals and at the lowest elevation of the area. The rainfall events contributing to flooding were intense rainfall with high tide that pushed the waters up in the canals and flooded the structures. The area consists of single-family structures built in the late 1960s and the 1970s. The flood zones in this area range from "A13" to "V19," with BFE ranging from 12 to 17 feet. The average grade elevation in this area ranges from 4 to 7 feet.

Repetitive Loss Area No. 15 is in an Evacuation Level A area which is the first level to be evacuated. Approximately ten hours is needed to evacuate the entire Level A area. Flooding in this area impacts the roadway areas first. This in turn hampers evacuation efforts as normal passenger vehicles cannot be used and high-profile vehicles must be used. Past flooding in this area has ranged from a few inches to several feet, causing damage mainly to residential homes. Development and redevelopment in this area consists of home improvements and repairs.



1 inch equals 750 feet



PASCO COUNTY FLORIDA Geographic Information Systems Division (GIS) Survey Department Engineering Services		
Title: Sections 12,13 TWP 26 S RNG. 15 E. Sections 7, 18 TWP 26 S RNG. 16 E.		
Created By: E.C.D. Date: 02-12-2009 Reviewed By: C.J.		<small>This map is for informational purposes only. The data contained herein is not collected under the supervision of, or approved by, a licensed surveyor. It is not intended for any legal use. The data does not meet the minimum technical standards under the Florida Administrative Code 61G17-6. The Pasco County Board of County Commissioners does not accept any responsibility for errors or omissions of any kind contained in the data herein. All products and derivations from the data contained herein must retain this disclaimer.</small>
Source Data: Pasco County Property Appraiser Pasco County GIS Pasco County Development Review		
Title: RLA 15 - Floramar		

Repetitive Loss Area No. 16: Holiday Hills

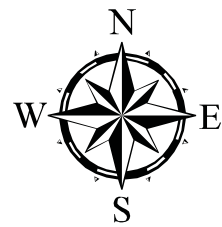
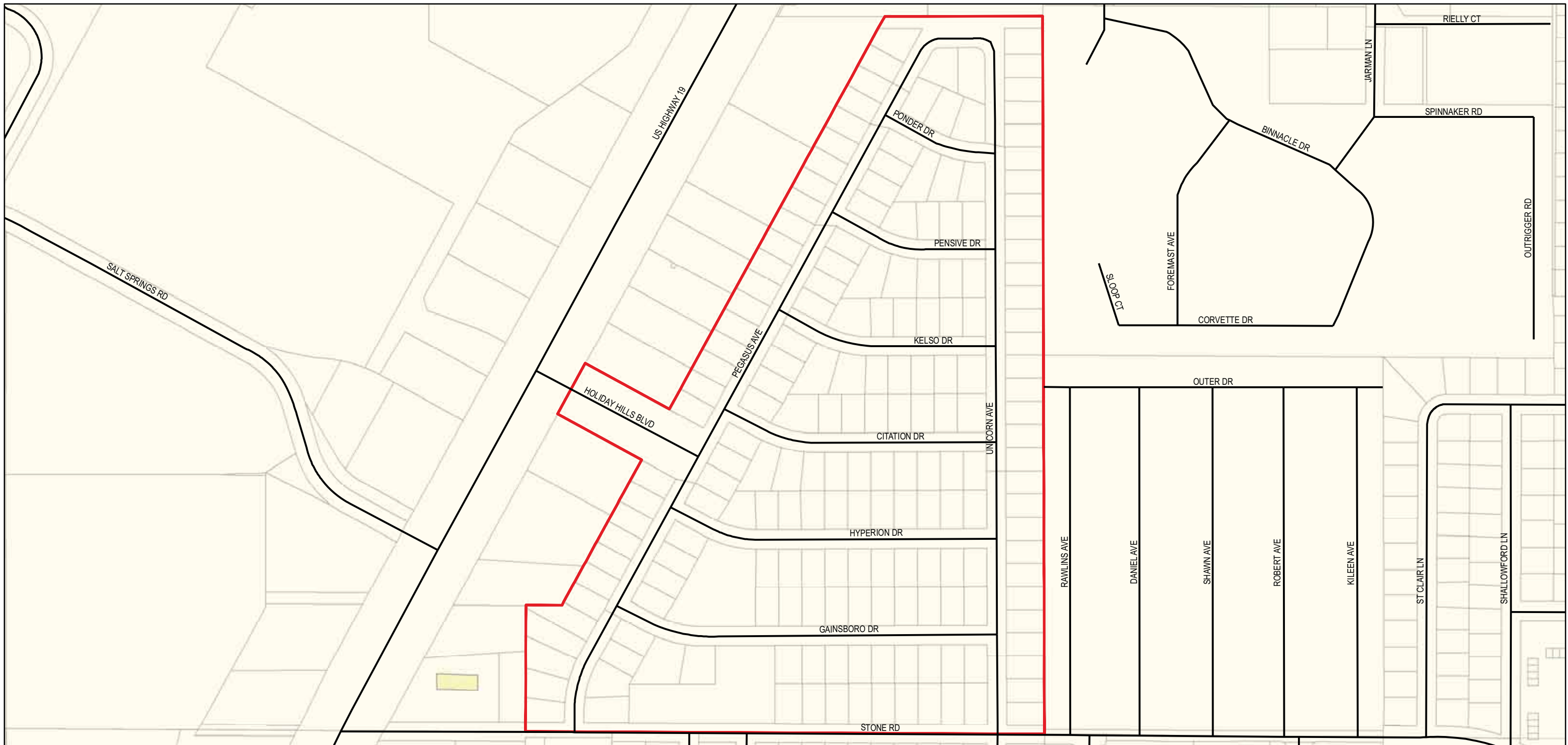
Repetitive Loss Area No. 16 is located east of U.S. 19 in the west central area of Pasco County in Section 21, Township 25 South, Range 16 East. The events attributed to flooding in this area are 27 and 35.

Repetitive Loss Area No. 16 includes five repetitive loss properties. There are a total of 185 structures located within this repetitive loss area. Of those, 185 are pre-FIRM. The area consists of single-family structures built in the late 1960's. The flood zone in this area is "A13". The average grade elevation in this area is approximately 10 feet.

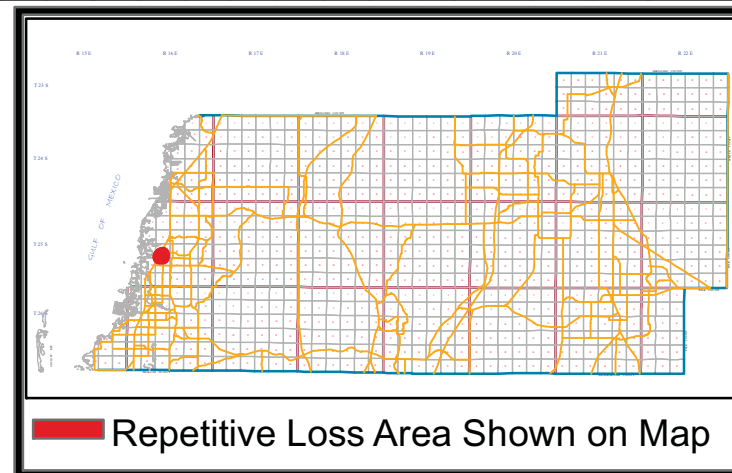
TYPE OF STRUCTURE	PRE-FIRM	POST-FIRM
Single-Family Residential, Single-Family Villas	183	0
Mobile Homes	0	0
Multifamily (less than five units)	0	0
Multifamily (five or more units)	0	0
Condominium	0	0
Multi Story Retirement Apartments	0	0
Professional Offices or Medical	0	0
Commercial Buildings	0	0
Food-Related Buildings	0	0
Vehicle-Related Buildings	0	0
Financial Institutions	0	0
Hotels and Motels	0	0
Hospitals and Nursing Homes	0	0
Churches	0	0
Storage/Warehouses	0	0
Industrial Buildings	0	0
Social Buildings/Entertainment/Sporting Facilities	1	0
Schools	0	0
Government Buildings/Facilities	1	0
Utility Buildings	0	0
Total Properties with Structures	185	0
Vacant Properties		1
Total Properties	185	1

Repetitive Loss Area No. 16 is in an Evacuation Level B area which is the second level to be evacuated. Approximately ten hours are needed to evacuate the entire Level B area. Flooding in this area impacts the roadway areas first. This in turn hampers evacuation efforts as normal passenger vehicles cannot be used and

high-rise vehicles must be used. Past flooding in this area has ranged from a few inches to a few feet causing damage mainly to the residential homes with few sustaining substantial damage. Development and redevelopment in this area consists of home improvements and repairs, and redevelopment of business properties. Substantially improved or damaged structures are required to comply with the standards for new construction. The County has considered local drainage improvements in the area.



1 inch equals 250 feet



PASCO COUNTY FLORIDA

Geographic Information Systems Division (GIS)
Survey Department
Engineering Services



Title: Sections 21 TWP 25 S RNG. 16 E.

RLA 16 - Holiday Hills

Created By: E.C.D.

Date: 02-12-2009

Reviewed By: C.J.

Source Data:

Pasco County Property Appraiser
Pasco County GIS
Pasco County Development Review

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REPETITIVE LOSS ARE MITIGATION EFFORTS

REPETITIVE LOSS AREA	MITIGATION EFFORTS WITHIN THE REPETITIVE LOSS AREA
1-Hudson	Elevation of Repetitive Loss Properties in an area characterized by older homes built prior to the County joining the National Flood Insurance Program (NFIP).
2-Lake Worrell	Elevation of Repetitive Loss Properties in an area characterized by older homes built prior to the County joining the National Flood Insurance Program (NFIP).
3-Pithlachascotee	Elevation of Repetitive Loss Properties in an area characterized by older homes built prior to the County joining the National Flood Insurance Program (NFIP).
4-Green Key	Elevation of Repetitive Loss Properties in an area characterized by older homes built prior to the County joining the National Flood Insurance Program (NFIP).
5-Anclote	Elevation of Repetitive Loss Properties in an area characterized by older homes built prior to the County joining the National Flood Insurance Program (NFIP).
6-Lake Terrace	The one repetitive loss property has been removed.
7-Withlacoochee	Elevation of Repetitive Loss Properties in an area characterized by older homes built prior to the County joining the National Flood Insurance Program (NFIP).
8-Lake Bernadette Outfall	The one repetitive loss property has constructed a berm as a property protection measure.
9-Westport/Salt Springs	Elevation of Repetitive Loss Properties in an area characterized by older homes built prior to the County joining the National Flood Insurance Program (NFIP).
10-Grove Park	Drainage improvements were completed as part of the State of Florida SR 54 Improvements.
11-Aurora Drive	Local stormwater drainage improvements have been considered.
12-Aripeka	Elevation of Repetitive Loss Properties in an area characterized by older homes built prior to the County joining the National Flood Insurance Program (NFIP).
13-Baillies Bluff	Elevation of Repetitive Loss Properties in an area characterized by older homes built prior to the County joining the National Flood Insurance Program (NFIP).
14-Bonita	Local stormwater drainage improvements have been considered.
15-Flor A Mar	Elevation of Repetitive Loss Properties in an area characterized by older homes built prior to the County joining the National Flood Insurance Program (NFIP).
16-Holiday Hills	Local stormwater drainage improvements have been considered.

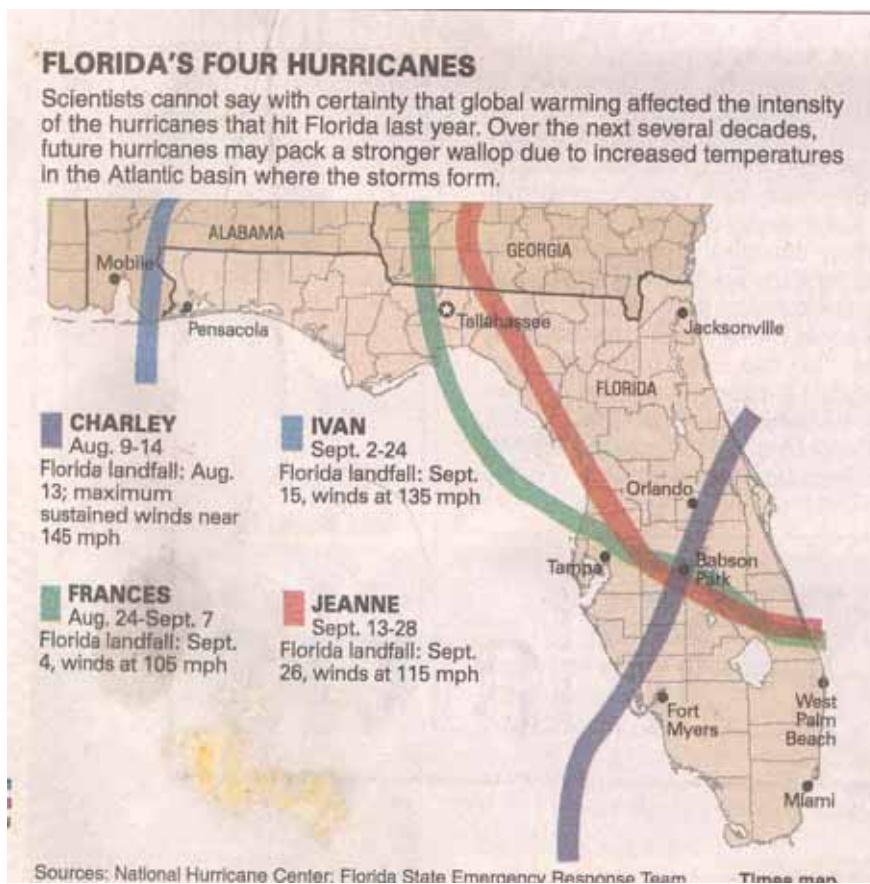
Office of Emergency Management

National Weather Service

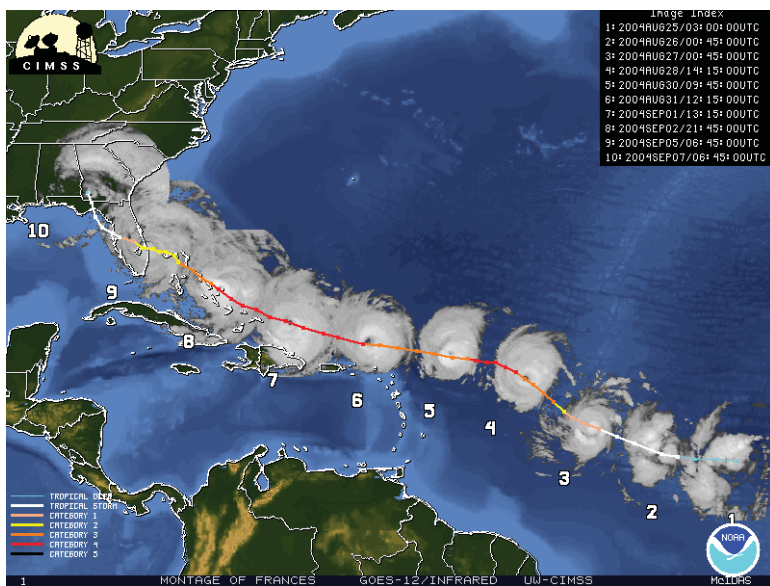
1. May 8, 1979: 11.09 inches of rainfall measured in Tarpon Springs.
2. August 11, 1979: 1.5 inches of rainfall measured at Tampa International Airport (TIA).
3. August 22, 1979: 0.25 inch of rainfall measured at TIA.
4. June 26, 1981: 3.67 inches of rainfall measured in St. Leo over a two-day period.
5. June 18, 1982: 6.32 inches of rainfall measured in Tarpon Springs and five inches of rainfall measured in Brooksville.
6. June 23, 1982: No significant amount of rainfall attributed to this day.
7. October 6, 1982: 3.7 inches of rainfall measured in St. Leo.
8. March 24, 1983: No significant amount of rainfall attributed to this day.
9. September 18 and 19, 1983: 5.67 inches of rainfall measured in Tarpon Springs.
10. July 31, 1984: No significant amount of rainfall attributed to this day.
11. August 30 to September 5, 1985: Hurricane Elena was a Category 3 Hurricane, which stalled off the west coast of Florida, causing saltwater and freshwater flooding.
12. January 10, 1986: 4.21 inches of rainfall measured in Tarpon Springs.
13. December 31, 1986: No significant amount of rainfall attributed to this day.
14. March 27 to March 31, 1987: 10.69 inches of rainfall in six days was measured in St. Leo.
15. September 5 to September 9, 1988: 15.38 inches of rainfall in five days was measured in Tarpon Springs. A front had stalled over Central Florida and a series of tropical waves moved along the front, causing widespread freshwater flooding.
16. November 11, 1988: No significant amount of rainfall attributed to this day.
17. June 28, 1989: 0.2 inch of rainfall measured at TIA.
18. July 15, 1990: 3.0 inches of rainfall measured at TIA.
19. August 23, 1991: 1.5 inches of rainfall measured at TIA.
20. August 12, 1992: No significant amount of rainfall attributed to this day.
21. August 27, 1992: 2.3 inches of rainfall measured at TIA.
22. October 3, 1992: 2.0 inches of rainfall measured at TIA.

23. March 13, 1993: No Name Storm. 5.0 inches of rainfall measured at TIA. Due to astronomically high tides, extremely heavy rainfall, wind of near tropical storm strength, and a storm surge of six to eight feet, the coastal areas of Aripeka, Hudson, Port Richey, and New Port Richey experienced severe flooding. Flooding in homes and businesses ranged from several inches to more than four feet of water. Several thousand homes were impacted. The Pasco County Emergency Operations Center (EOC) was fully activated in response to the event. Recovery operations commenced within 24 hours of the storm. The County received a Presidential Disaster Declaration for public assistance and individual assistance.
24. April 6, 1993: 0.4 inch of rainfall measured at TIA.
25. June 7, 1994: 1.4 inches of rainfall measured at TIA.
26. July 7, 1995: 0.4 inch of rainfall measured at TIA.
27. July 18, 1995: 5.1 inches of rainfall measured at TIA. Pasco County experienced localized flooding due to extremely heavy rainfall of more than five inches falling within a few hours on already saturated ground. The flooding was concentrated mainly in the Port Richey area. Homes and businesses received one to two feet of water. The County responded with a partial activation of EOC. A Small Business Administration disaster declaration was awarded to assist in the recovery effort.
28. August 2, 1995: Hurricane Erin. 5.0 to 6.0 inches of rainfall measured at TIA. Hurricane Erin passed over Pasco County with the eye of the storm passing near Dade City. EOC was fully activated as Pasco County was in the direct path of the storm. Damage was minimal, confined mostly to electric power and tree damage. One apartment building housing the elderly received roof damage and the residents evacuated to a local shelter. Rainfall associated with Hurricane Erin caused minor street flooding; however, storm surge was not a problem. Hurricane Erin exited to the north of Pasco County during a low tide period. Pasco County was included in the Presidential Disaster Declaration for Hurricane Erin.
29. October 4, 1995: Hurricane Opal. 1.6 inches of rainfall measured at TIA. Pasco County fully activated EOC in expectation of receiving an impact from Hurricane Opal. Though no direct impact was felt, Hurricane Opal, a gulf storm, was responsible for prolonged high tides. Pasco County did not receive a disaster declaration.
30. October 13, 1995: No significant amount of rainfall attributed to this day.
31. October 7, 1996: Tropical Storm Josephine. 2.0 inches of rainfall measured at TIA. Pasco County fully activated EOC in response to the threat of Tropical Storm Josephine. Tropical Storm Josephine impacted Aripeka, Hudson, Port Richey, and New Port Richey. The City of Port Richey received the greatest impact from the storm, consisting mainly of flooding in homes. The impact of Tropical Storm Josephine was not as severe as the March 13, 1993, No Name Storm, as residents received generally less than one foot of water in their homes. Pasco County received a Presidential Disaster Declaration for individual assistance due to the damage received from Tropical Storm Josephine.
32. December 1997 through March 1998: El Niño.
33. January 1, 1999: Pasco County experienced localized flooding due to extremely heavy rainfall within a few hours coinciding with high tide.
34. Spring/Summer 2003 Floods (Incident #03-06118): Impacts in this area began in June 2003 when Pasco County experienced between 20 and 30 inches of rain.
35. 2004 Tropical Storms and Hurricanes:

Tropical Storms and Hurricanes of 2004



The 2004 Hurricane Season was a very active season with a total of fifteen named storms. Eight of the storms grew to become hurricanes and the State of Florida saw four of those storms make landfall as major (Category 3 or higher) hurricanes. The names of the four major hurricanes were Charley, Frances, Ivan and Jeanne. Pasco County was involved in preparation actions for Hurricanes Charley, Frances and Jeanne, as well as response and recovery operations for Frances and Jeanne. Fortunately, when Hurricane Ivan arrived in mid September, it moved from south to north through the Gulf of Mexico towards landfall in the Panhandle some 300 miles offshore from Pasco County. Therefore, the County was not impacted by this storm.

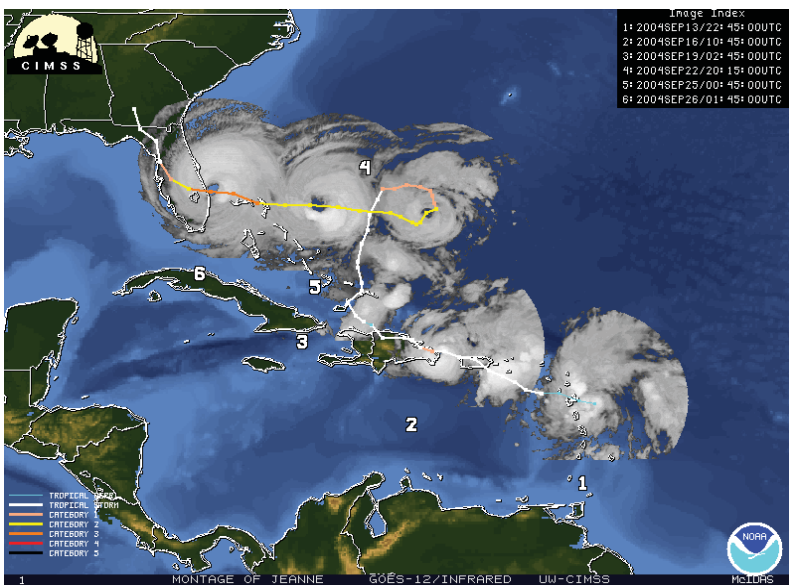


The State of Florida has experienced several Labor Day/Labor Day weekend storms during its history. Hurricane Frances proved to be the latest in this string of storms, tracking

through southwest Pasco County around 11 p.m. on September 5 as it exited the state.

Hurricane Frances made landfall in Martin County on Florida's east coast early in the morning of September 5 as a Category 3. It tracked towards the northwest through Polk and Hillsborough Counties, eventually exiting the State into the Gulf of Mexico through the southwest portion of Pasco County on September 5.

Unlike Hurricane Charley where only preparation actions were necessary on the part of Pasco County, response and recovery actions were needed following Hurricane Francis, since it passed through Pasco County with sustained gale force winds (55+ mph) that caused significant damage as it exited the state. Primary response and recovery operations conducted were flood response/pumping operations and debris removal. Damage assessment reports issued after the storm reflected 782 buildings (primarily mobile homes) in the County with minor damage and 114 with major damage resulting from the storm winds. In addition, 459 flooding reports were received by the County as a result of rains that accompanied the storm. Repetitive Loss Area No. 2, Bass Lake experienced flooding.



The third and final weekend storm of the 2004 Hurricane Season to impact Pasco County was Hurricane Jeanne. Jeanne proved to be a special challenge for Pasco County in that recovery operations that was well underway for Hurricane Frances had to be suspended in order to retrench and initiate preparation (protective) actions for Jeanne. Likewise, after the storm passed, the concurrent efforts of resuming recovery operations for Frances and initiating recovery operations for Jeanne had to be undertaken.

Similar to Hurricane Frances, Jeanne made landfall in Martin County on Florida's east coast early in the morning of September 26 as a Category 3. It followed a track similar to Frances as it generally moved to the north-northwest through Polk, the northeastern part of Hillsborough and into Pasco County with the track taking the center of the storm very close to Zephyrhills and Dade City prior to it exiting the County into Hernando County late in the evening of September 26.

Hurricane Jeanne passed through Pasco County with sustained gale force winds (55+ mph) that once again caused significant damage. Primary response and recovery operations conducted were flood response/pumping operations and debris removal. Damage assessment reports issued after the storm reflected 2,805 buildings (primarily homes) in the County with minor damage, and 558 with major damage resulting from the storm winds. As of the end of September 2004, 462 flooding complaints were received and tasked to field investigators. Unfortunately, Pasco County had one fatality attributable to Hurricane Jeanne.

Pasco County Local Mitigation Strategy (LMS) Active Project/Program List

ID	Score	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Additional Goals/Objectives	Time Frame	Date Update	Project Status
GV	34	Crossbar-Al Bar Ranch Acquisition	Purchase Crossbar - Al Bar Ranch property because it is located in a Critical Linkage area and it will protect wildlife and floodplains.	Pasco County ELAMP	Floods, Wildfires	Restoration of Natural Features	County Sales Tax, Wetland Mitigation, SWFWMD, Florida Forever, Conservation and Recreation Lands, Watershed Protection and Flood Prevention	06 Encourage the protection of Natural Resources	06.4 Provide and encourage preservation of open space	6 (6.1) (6.2) (6.5), 8 (8.3)	More than 12 Months	Added 12/08	
GZ	33	Horton-Beacon Point Acquisition	Purchase Horton-Beacon Point property because it has rare natural habitats in a primarily urban area and it will protect wildlife habitats and wetlands.	Pasco County ELAMP	Floods, Wildfires	Restoration of Natural Features	Florida Communities Trust, Florida Forever, Conservation and Recreation Lands, Watershed Protection and Flood Prevention	06 Encourage the protection of Natural Resources	06.4 Provide and encourage preservation of open space	6 (6.2) (6.1) (6.5), 8 (8.3)	More than 12 Months	Added 12/08	
HB	33	Mickler Coastal Acquisition	Purchase Mickler property because it is located along the Gulf of Mexico and it will protect wildlife and floodplains. This acquisition will also prevent residential or commercial structures on this property which prevents it from becoming a repetitive loss property in the future.	Pasco County ELAMP	Coastal Flooding, Coastal/River Erosion, Hurricanes/Tropical Storms, Wildfires	Restoration of Natural Features	County Sales Tax, Florida Communities Trust, SWFWMD, Conservation and Recreation Lands, Watershed Protection and Flood Prevention	06 Encourage the protection of Natural Resources	06.4 Provide and encourage preservation of open space	6 (6.2) (6.1), 8 (8.3)	Less than 12 Months	Added 12/08	
GW	32	Cypress Creek Acquisition	Purchase Cypress Creek property because it is located in a Critical Linkage and it will protect wildlife and floodplains.	Pasco County ELAMP	Floods, Drought	Restoration of Natural Features	County Sales Tax	06 Encourage the protection of Natural Resources	06.2 Protect and restore wetlands and critical upland habitats	6 (6.4), 8 (8.3)	Less than 12 Months	Added 12/08	
GY	32	Hidden River South Acquisition	Purchase Hidden River South property because it is located in a Critical Linkage (along Hillsborough River) and it will protect wildlife and floodplains.	Pasco County ELAMP	Floods, Drought, Wildfire	Restoration of Natural Features	County Sales Tax, Florida Communities Trust, SWFWMD	06 Encourage the protection of Natural Resources	06.4 Provide and encourage preservation of open space	6 (6.1) (6.2), 8 (8.3)	Less than 12 Months	Added 12/08	
GT	31	Boger Coastal Acquisition	Purchase Boger Coastal property because it is located in a coastal high hazard area and it will protect wildlife and floodplains.	Pasco County ELAMP	Coastal Flooding, Hurricanes/Tropical Storms, Coastal/River Erosion, Wildfires	Restoration of Natural Features	County Sales Tax, Wetland Mitigation, SWFWMD, Florida Communities Trust, Conservation and Recreation Lands, Watershed Protection and Flood Prevention	06 Encourage the protection of Natural Resources	06.4 Provide and encourage preservation of open space	6 (6.1) (6.2) (6.5), 8 (8.3)	More than 12 Months	Added 12/08	

Pasco County Local Mitigation Strategy (LMS) Active Project/Program List

ID	Score	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Additional Goals/Objectives	Time Frame	Date Update	Project Status
GU	31	Castriota Acquisition	Purchase Castriota property because it is located in a Critical Linkage area and it will protect wildlife habitats and floodplains.	Pasco County ELAMP	Floods, Wildfires	Restoration of Natural Features	County Sales Tax, Florida Communities Trust, Florida Forever, Conservation and Recreation Lands, Watershed Protection and Flood Prevention	06 Encourage the protection of Natural Resources	06.4 Provide and encourage preservation of open space	6 (6.1) (6.2) (6.5), 8 (8.3)	More than 12 Months	Added 12/08	
GX	31	Dutchmen Key Acquisition	Purchase Dutchmen Key property because it is located in a coastal high hazard area and it will protect wildlife habitats.	Pasco County ELAMP	Coastal Flooding, Hurricanes/Tropical Storms, Coastal/River Erosion, Wildfires	Restoration of Natural Features	County Sales Tax, Florida Communities Trust, Florida Forever, Conservation and Recreation Lands, Watershed Protection and Flood Prevention	06 Encourage the protection of Natural Resources	06.1 Partner with the State and other agencies in the acquisition of lands and/or development rights for environmental protection	6 (6.4) (6.2) (6.5)	More than 12 Months	Added 12/08	
HA	31	Malhotra Acquisition	Purchase Malhotra property because it is located in a Critical Linkage area and it will protect wildlife habitats, floodplains, and wetlands.	Pasco County ELAMP	Floods, Wildfires	Restoration of Natural Features	County Sales Tax, Florida Communities Trust, Florida Forever, Conservation and Recreation Lands, Watershed Protection and Flood Prevention, Wetland Mitigation	06 Encourage the protection of Natural Resources	06.4 Provide and encourage preservation of open space	6 (6.2) (6.1) (6.5), 8 (8.3)	More than 12 Months	Added 12/08	
HC	31	Morsani Ranch Acquisition	Purchase Morsani Ranch property because it is located in a Critical Linkage at the headwaters of the Pithlachascotee River and it will protect wildlife and floodplains. Part of the Crews Lake Basin is located on this property.	Pasco County ELAMP	Floods, Drought, Wildfires	Restoration of Natural Features	County Sales Tax, Florida Communities Trust, SWFWMD, Conservation and Recreation Lands, Watershed Protection and Flood Prevention	06 Encourage the protection of Natural Resources	06.4 Provide and encourage preservation of open space	6 (6.2) (6.1), 8 (8.3)	Less than 12 Months	Added 12/08	
HD	31	Pasco Palms Acquisition	Purchase Pasco Palms property because it is located in a coastal high hazard area and it will protect wildlife and floodplains.	Pasco County ELAMP	Coastal Floods, Coastal/River Erosion, Hurricanes/Tropical Storms, Wildfires	Restoration of Natural Features	County Sales Tax, Florida Communities Trust, Conservation and Recreation Lands, Watershed Protection and Flood Prevention	06 Encourage the protection of Natural Resources	06.4 Provide and encourage preservation of open space	6 (6.2) (6.1) (6.5), 8 (8.3)	Less than 12 Months	Added 12/08	

Pasco County Local Mitigation Strategy (LMS) Active Project/Program List

ID	Score	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Additional Goals/Objectives	Time Frame	Date Update	Project Status
EX	31	Tommytown-Neighborhood Target Area	Investment of physical development in low-income areas. Construct paved streets, water and sewer facilities, stormwater improvements, street lights and other amenities.	Pasco County Community Development	Floods	Revitalization Project	Community Development Block Grant Program; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Special Economic Development & Assistance Program; Watershed Protection & Flood Prevention	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 1/09	Pasco County has received a \$13 million loan for this project. Design completed. Final lots needed for drainage are acquired. Construction began April 2007 in area south of Lock St. Bid for area north of Lock Street went out in Spring 2008. Southern Part of Lock Street completed in 2008. Contract has been signed for the completion of the North side.
GK	30	Drainage Improvements - Treadway	Construct drainage and roadway improvements on Treadway Drive	Port Richey	Floods	Stormwater Management	Capital Grants for Clean Water State Revolving Funds, Flood Mitigation Assistance Program, Hazard Mitigation Grant Program, Nonpoint Source Implementation Grants, Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff	9 (9.1)	Less than 12 Months	Added 11/08	
GA	30	Local Incident Management Team	Develop and maintain a Local Incident Management Team (L-IMT) to reduce and/or eliminate excess expenditure costs associated with Type-4 incidents, and events.	Pasco County Emergency Management	All Hazards	Management Plan		05 Reduce the cost of disaster response and recovery	05.4 Efficiently manage all local disasters	12 (12.1)	More than 12 Months	Added 11/08	This is a continuous project.
HE	30	Rocky Creek Acquisition	Purchase Rocky Creek property because it is located in the coastal high hazard area, has rare natural habitats in a primarily urban area and it will protect wildlife habitats and wetlands.	Pasco County ELAMP	Coastal Flooding, Coastal Erosion, Hurricanes/Tropical Storms, Wildfires	Restoration of Natural Features	County Sales Tax, Florida Communities Trust, Florida Forever, Conservation and Recreation Lands, Watershed Protection and Flood Prevention	06 Encourage the protection of Natural Resources	06.4 Provide and encourage preservation of open space	6 (6.1) (6.2) (6.5), 8 (8.3)	More than 12 Months	Added 12/08	

Pasco County Local Mitigation Strategy (LMS) Active Project/Program List

ID	Score	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Additional Goals/Objectives	Time Frame	Date Update	Project Status
HF	30	Tierra del Sol Acquisition	Purchase Tierra del Sol property because it is located in a Critical Linkage area and it will protect wildlife and floodplains.	Pasco County ELAMP	Floods, Wildfires	Restoration of Natural Features	County Sales Tax, Wetland Mitigation, Conservation and Recreation Lands, Watershed Protection and Flood Prevention	06 Encourage the protection of Natural Resources	06.4 Provide and encourage preservation of open space	6 (6.2) (6.1) (6.5), 8 (8.3)	More than 12 Months	Added 12/08	
GI	29	Drainage Improvements - River Gulf, Grand & Bay	Construct drainage and roadway improvements on River Gulf Dr., Grand Blvd. & Bay Blvd.	Port Richey	Floods	Stormwater Management	Capital Grants for Clean Water State Revolving Funds, Flood Mitigation Assistance Program, Hazard Mitigation Grant Program, Nonpoint Source Implementation Grants, Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff	9 (9.1)	Less than 12 Months	Added 11/08	
GJ	29	Drainage Improvements - Tabor, Papaya, Cormel, Quist, Wilkins, & Berlin	Construct drainage and roadway improvements on Tabor, Papaya, Cormel, Quist, Wilkins, & Berlin Dr.	Port Richey	Floods	Stormwater Management	Capital Grants for Clean Water State Revolving Funds, Flood Mitigation Assistance Program, Hazard Mitigation Grant Program, Nonpoint Source Implementation Grants, Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff	9 (9.1)	Less than 12 Months	Added 11/08	
FZ	29	Hazardous Incident Team	Maintain a Hazardous Incident Team to respond to and mitigate hazardous material incidents.	Pasco County Emergency Management	All Hazards	Management Plan		02 Minimize the effects of Hazardous Materials incidents	02.2 Maintain a capability to respond to hazardous materials incidents	6 (6.3)	More than 12 Months	Added 11/08	This is a continuous project.

Pasco County Local Mitigation Strategy (LMS) Active Project/Program List

ID	Score	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Additional Goals/Objectives	Time Frame	Date Update	Project Status
AA	28	10th Street and Willingham Avenue Stormwater Project	Increase retention area and redesign stormwater system.	Dade City	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 12/08	Awaiting release of new FIRMs before attempting to determine redesigned stormwater system for this project. This project will be reviewed during spring 2008 and is possible item for FY 2008-2009 budget. FIRMs should be released in late 2009.
CI	28	Hudson Ave. Drainage Improvements Project	Elevate approximately 800 ft. of road to keep it out of the 100 year flood plain.	Pasco County	Floods	Stormwater Management	Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant Program; Emergency Management Preparedness and Assistance Trust Fund; Nonpoint Source Implementation Grant; Watershed Protection & Flood	09 Reduce property damage caused by flooding	09.1 Identify and correct local flooding conditions		More than 12 Months	Updated 11/08	Engineering scheduled for 2010.
CQ	28	Kitten Trail Drainage Improvements Project	Elevate approximately 1,000 ft. of road to keep it out of the 100 year flood plain.	Pasco County	Floods	Stormwater Management	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program; CDBG	09 Reduce property damage caused by flooding	09.1 Identify and correct local flooding conditions		More than 12 Months	Updated 11/08	Engineering scheduled for 2010.

Pasco County Local Mitigation Strategy (LMS) Active Project/Program List

ID	Score	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Additional Goals/Objectives	Time Frame	Date Update	Project Status
BW	27	Generator for Town of St. Leo Town Hall	Purchase of generator for the Town Hall.	St. Leo	Hurricane/Coastal Storms	Critical Facilities Project	Emergency Management Preparedness and Assistance Trust Fund	10 Regulate and prioritize the construction and/or enhance the protection of critical facilities and infrastructure	10.2 Prioritize and retrofit existing critical facilities and infrastructure		More than 12 Months	Updated 1/09	No action taken to date.
GF	27	Portable Generator for Utilities	Purchase of portable generator for operating lift stations in the event of a storm or hurricane event.	Port Richey	Floods	Critical Facilities	Capitalization Grants for Clean Water State Revolving Funds, Hazard Mitigation Grant Program, Pre-Disaster Mitigation Program, Water & Waste Disposal Loans & Grants, Water Pollution Control, Watershed Protection and Flood Prevention.	10 Regulate and prioritize the construction and/or enhance the protection of critical facilities and infrastructure	10.2 Prioritize and retrofit existing critical facilities and infrastructure		More than 12 Months	Added 11/08	
EJ	27	Regional Hurricane Shelter	Provide wind resistance capabilities up to 160 mph and backup power for a regional hurricane shelter. Shelter should be available to approximately 1,000 evacuating citizens of Pasco, Hernando and surrounding counties.	Pasco County Facilities and Emergency Management	Hurricanes	Critical Facilities Project	HMGP	01 Protect the health, safety and welfare of the public	01.3 Provide sufficient shelter space to satisfy in-County demand		More than 12 Months	Updated 1/08	Design of shelter is currently underway. Federal funding is under re-evaluation as new code (FEMA 361) requires 200 mph wind speed which significantly increases cost to County.
GN	27	Zephyrhills Downtown Retention Pond / flood proofing	The City of Zephyrhills has experienced flooding problems in the Downtown including City Hall, the fire station property, and adjacent roadways. An existing retention pond that serves this area is in need of expansion to increase capacity to reduce flooding potential. Flood proofing the fire station and City Hall have also been recommended	Zephyrhills	Floods	Stormwater Management	Local Government, Flood Mitigation Assistance Program, Hazard Mitigation Grant Program, Nonpoint Source Implementation Grants, Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff	1 (1.2), 3 (3.1) (3.2), 4 (4.1), 5 (5.2)	Less than 12 Months	Added 11/08	

Pasco County Local Mitigation Strategy (LMS) Active Project/Program List

ID	Score	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Additional Goals/Objectives	Time Frame	Date Update	Project Status
EE	26	Port Richey Repetitive Loss Mitigation 2007	Elevation of 11 repetitive loss properties. See project worksheet for addresses.	Port Richey	Floods, Coastal Flooding	Property Acquisition		05 Reduce the cost of disaster response and recovery	05.2 Advocate property acquisition or retro-fitting for repetitive loss properties		More than 12 Months	Updated 12/08	75% through construction
EF	26	Port Richey Repetitive Loss Mitigation 2008	Elevation of 5 repetitive loss properties at 8352 Carolyn Dr, 7515 Grand Blvd, 5024 Miller Bayou Dr, 5140 Miller Bayou Dr, and 4901 Waterside Dr.	Port Richey	Floods, Coastal Flooding	Property Acquisition		05 Reduce the cost of disaster response and recovery	05.2 Advocate property acquisition or retro-fitting for repetitive loss properties		More than 12 Months	Updated 12/08	Awaiting funding
AE	25	Bahia Acres Loop Project	Replace culverts and regrade roadside swales and primary drainage ditches.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 11/08	SWFWMD and Pasco County study due 02/09. BMPs due 2/08.
AG	25	Barcelona Road Project	Pave road and construct roadside swales in South Lakes Study Area.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 11/08	SWFWMD/Pasco County funded study. \$1,400,000 completion not yet scheduled.

Pasco County Local Mitigation Strategy (LMS) Active Project/Program List

ID	Score	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Additional Goals/Objectives	Time Frame	Date Update	Project Status
AI	25	Bass Lake Drainage Area Phase II	Construct improvements in accordance with Bear Creek Master Plan for the Double Hammock Creek Study Area.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 11/08	Permit issued 12/06. Project scheduled for bid advertisement 11/08. Construction to be completed in 2009.
AK	25	Bear Creek Watershed Project, Phase II	Engineering study to identify cost-effective stormwater improvements necessary to correct existing problems and policy guidelines to mitigate for potential flooding.	Pasco County Stormwater Management	Floods	Management Plan Development and Modification	Capitalization Grants for Clean Water State Revolving Funds; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 11/08	Project not active at this time.
AP	25	Bexley Road/Wisteria Loop Project	Road elevation and cross drains in Pinellas Anclote Study Area.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 11/08	Ditches have been cleaned out to mitigate flooding. Remainder of project has not been scheduled.

Pasco County Local Mitigation Strategy (LMS) Active Project/Program List

ID	Score	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Additional Goals/Objectives	Time Frame	Date Update	Project Status
AQ	25	Bosley Drive/Lawless Road Project	Road elevation in Pithlachasscotee Study Area.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 11/08	Project has not been scheduled nor funding determined.
AU	25	Brightwell Drive/Gerard Lane Project	Storm sewer repair and ditch maintenance in Pinellas Anclote Study Area.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 11/08	Project not scheduled yet.
AW	25	Carricker Road Project	Pave road and construct roadside swales in South Lakes Study Area.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 11/08	SWFWMD and Pasco County study underway. BMPs due 2/09.

Pasco County Local Mitigation Strategy (LMS) Active Project/Program List

ID	Score	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Additional Goals/Objectives	Time Frame	Date Update	Project Status
FU	25	Community Emergency Response Teams	Create and support Community Emergency Response Teams (CERT) that are capable of performing public education, warning and notification, damage assessment and coordination of service delivery into the neighborhoods post-disaster.	Pasco County Emergency Management	All Hazards	Public Education	Citizen Corps Grant Program	04 Maintain high state of preparedness/coordination to mitigate and respond to disasters	04.1 Develop the capacity to mitigate, prepare, respond, and recover from all hazards	5 (5.4)	More than 12 Months	Updated 11/08	This is an ongoing program. Pasco County Emergency Management will continue to hold CERT training regularly.
GD	25	Counter-terrorism	Develop and maintain local information and intelligence collection and dissemination capabilities to prevent/mitigate terrorism activity/incidents.	Pasco County Emergency Management	Terrorism	Management Plan		12 Minimize the effects of a terrorist attack	12.1 Continue to enhance the capacity to aid in the prevention of and response to terror attacks	1 (1.1)	More than 12 Months	Added 11/08	
BB	25	Crews Lake Project	Water Quality Study and Lake Monitoring Plan.	Pasco County Stormwater Management	Floods	Management Plan Development and Modification	Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant; Nonpoint Source Implementation Grants; Pollution Prevention Grants Program; Watershed Protection & Flood Prevention	08 Stormwater Improvement	08.2 Protect the function of natural drainage features and surficial aquifer recharge areas		More than 12 Months	Updated 11/08	Project not active at this time.
BC	25	Cypress Creek-South Lake Watershed Management Plan Implementation	Implementation of BMPs identified in the Stormwater Management Master Plan-SWMMP	Pasco County	Floods	Structural Project	Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant Program; Emergency Management Preparedness and Assistance Trust Fund; Nonpoint Source Implementation Grant; Watershed Protection & Flood.	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 11/08	Stormwater Management Master Plan BMPs due by 2/09.

Pasco County Local Mitigation Strategy (LMS) Active Project/Program List

ID	Score	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Additional Goals/Objectives	Time Frame	Date Update	Project Status
BD	25	Cypress Estates Project Area	Construct ditch and shoulder improvements in Cypress Creek Study Area.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 11/08	Master Plan jointly funded with SWFWMD. BMPs due 2/09.
BE	25	Dade City Stormwater Management Plan	Engineering study to identify cost-effective stormwater improvements necessary to correct existing problems and policy guidelines to mitigate for potential flooding.	Dade City and Pasco County Stormwater Management	Floods	Management Plan Development and Modification	Emergency Management Preparedness and Assistance Trust Fund	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 12/08	Work underway to develop 5 year capital improvement plan.
BI	25	Dade Oaks Project, Phase II, 10th Street and Whitehouse Avenue Intersection Stormwater Project	Drainage improvements and additional retention to restore natural flows and contain flood waters in the Dade Oaks Public Housing Project. Cost unavailable. Completion dependent on County project.	Dade City and Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 11/08	Project is not active at this time. Awaiting release of new FIRM Maps before attempting to determine redesigned stormwater system for this project.

Pasco County Local Mitigation Strategy (LMS) Active Project/Program List

ID	Score	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Additional Goals/Objectives	Time Frame	Date Update	Project Status
BL	25	Double Hammock Creek Watershed Management Plan Implementation	Implementation of BMPs identified in the Stormwater Management Master Plan-SWMMMP	Pasco County	Floods	Structural Project	Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant Program; Emergency Management Preparedness and Assistance Trust Fund; Nonpoint Source Implementation Grant; Watershed Protection & Flood.	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 1/08	To be scheduled. Stormwater Management Master Plan will begin development 2/08 and be completed by 2/10.
BM	25	Drexel Road Project	Rebuild road and cross drains in South Lakes Study Area.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 11/08	SWFWMD/Pasco County study underway. BMPs due 2/09.
BN	25	Duck Lake Regional Retention System	Construct 100+ acre detention system in the Duck Lake System near Happy Hill Road.	Pasco County Stormwater Management	Floods	Structural Project	Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 11/08	Funding needs to be sourced. Stormwater Management Master Plan underway. Due to be completed 2nd Quarter 2009. Possible location identified.

Pasco County Local Mitigation Strategy (LMS) Active Project/Program List

ID	Score	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Additional Goals/Objectives	Time Frame	Date Update	Project Status
BO	25	Duck Lake Watershed Management Plan Implementation	Implementation of BMPs identified in the Stormwater Management Master Plan-SWMP	Pasco County	Floods	Stormwater Management	Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant Program; Emergency Management Preparedness and Assistance Trust Fund; Nonpoint Source Implementation Grant; Watershed Protection & Flood.	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 11/08	Study underway due by 06/01/09.
GC	25	Dunn Retrofit	Modified elevation of severe repetitive loss property. Second-story conversion will reduce if not eliminate the flood problem.	New Port Richey	Floods	Retrofitting of Structure	Repetitive Flood Claims Mitigation Grant	05 Reduce the cost of disaster response and recovery	05.2 Advocate property acquisition or retro-fitting for repetitive loss properties		Less than 12 Months	Added 11/08	
BP	25	Dupree Gardens Project Area	Construct road and ditch improvements in South Lakes Study Area.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 11/08	SWFWMD and Pasco County study underway. BMPs due 2/09.

Pasco County Local Mitigation Strategy (LMS) Active Project/Program List

ID	Score	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Additional Goals/Objectives	Time Frame	Date Update	Project Status
BQ	25	East Zephyrhills Watershed Management Plan Implementation	Implementation of BMPs identified in the Stormwater Management Master Plan-SWMMP	Pasco County	Floods	Stormwater Management	Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant Program; Emergency Management Preparedness and Assistance Trust Fund; Nonpoint Source Implementation Grant; Watershed Protection & Flood.	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 11/08	Final Stormwater Management Master Plan due by 4/09. BMPs delivered. First group of BMPs to be designed and permitted in 2009. Construction schedule not determined
BT	25	Flood Insurance Rate Maps	Add St. Leo to National Flood Insurance Program and Flood Insurance Rate Maps (Community Panel #120230-0275 D). The City will not be charged for the purchase of flood maps.	St. Leo	Floods	Public Education Project	Emergency Management Preparedness and Assistance Trust Fund	01 Protect the health, safety and welfare of the public	01.2 Ensure new development and redevelopment complies with all applicable federal, state and local regulations		More than 12 Months	Updated 1/09	Work is currently underway with SWFWMD and Pasco County to develop new Flood Insurance Rate Maps (FIRM). Upon completion of effort, St. Leo will receive flood maps for the township. New FIRM Maps are now anticipated to be released during 2009.
BV	25	Foxwood Subdivision	Maintenance of ditches and cross drains in Upper Hillsborough Study Area.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 11/08	SWFWMD and Pasco County study began 1/07. Study to be completed by late 2010.

Pasco County Local Mitigation Strategy (LMS) Active Project/Program List

ID	Score	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Additional Goals/Objectives	Time Frame	Date Update	Project Status
CB	25	Griffin Park Project	Construct culvert and swale improvements in the Bear Creek Study Area.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 11/08	Project not active at this time.
CC	25	Gulfside Estates/Gulfside Acres Project Area	Construct road and drainage improvements in Hammock Creek Study Area.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 11/08	Project is not active at this time.
CD	25	Hale Road Project	Construct road and cross drain improvements in South Lakes Study Area	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 11/08	SWFWMD and Pasco County study due to be completed in 2009.

Pasco County Local Mitigation Strategy (LMS) Active Project/Program List

ID	Score	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Additional Goals/Objectives	Time Frame	Date Update	Project Status
CE	25	Hammock Creek Watershed Management Plan Implementation	Implementation of BMPs identified in the Stormwater Management Master Plan-SWMMP	Pasco County	Floods	Stormwater Management	Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant Program; Emergency Management Preparedness and Assistance Trust Fund; Nonpoint Source Implementation Grant; Watershed Protection & Flood.	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 1/08	BMPs completed. Engineering of first BMP to begin by 01/09.
CF	25	Holiday Hills Project Area	Construct gravity outfall from existing pond in the Double Hammock Creek Study Area.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program; CDBG	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 11/08	Project on hold. Pond major cleaning completed 10/08
CG	25	Hopson Road Project	Rebuild roads, ditches and cross drains in the South Lakes Study Area.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 11/08	SWFWMD and Pasco County study underway due for completion in 2009.

Pasco County Local Mitigation Strategy (LMS) Active Project/Program List

ID	Score	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Additional Goals/Objectives	Time Frame	Date Update	Project Status
GG	25	Installation of ring guards on manhole covers	Installation of ring guards on approximately 50 manhole covers in the city's utility system.	Port Richey	Floods	Critical Facilities	Capitalization Grants for Clean Water State Revolving Funds, Community Development Block Grant, Hazard Mitigation Grant Program, Water and Waste Disposal Loans and Grants.	10 Regulate and prioritize the construction and/or enhance the protection of critical facilities and infrastructure	10.2 Prioritize and retrofit existing critical facilities and infrastructure		More than 12 Months	Added 11/08	
CN	25	Jarvis Street Project	Storm sewer improvements in Pinellas Anclote Study Area.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 11/08	Project not active at this time. Pump is scheduled to be replaced 2009.
CP	25	Keystone Drive Project	Construct detention pond improvements in Lower Coastal Study Area.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 11/08	Project is not active at this time.

Pasco County Local Mitigation Strategy (LMS) Active Project/Program List

ID	Score	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Additional Goals/Objectives	Time Frame	Date Update	Project Status
CV	25	Lake Padgett Estates Project Area	Maintenance of culverts and swales in South Lakes Study Area.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 11/08	Project underway. Project will be continuing, since this is a continuous maintenance activity.
CW	25	Lake Patience Road Project	Rebuild road and cross drains in Pinellas Anclote Study Area.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 11/08	Project is not active at this time.
CX	25	Lake Zephyr Watershed Project	Design Phases I, II, III, IV, and VI. Channel improvements, culvert improvement/replacement, wetland creation, secondary drainage system improvements and detention or retention storage off-line.	Pasco County Stormwater Management	Floods	Management Plan Development and Modification	Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant Program; Emergency Management Preparedness and Assistance Trust Fund; Nonpoint Source Implementation Grant; Watershed Protection & Flood Prevention	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 11/08	Phases I and II designed and permitted. Funding request to be submitted to continue project in FY 07. Phases I and II permits expired. Repermitting to begin by 01/09.

Pasco County Local Mitigation Strategy (LMS) Active Project/Program List

ID	Score	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Additional Goals/Objectives	Time Frame	Date Update	Project Status
CY	25	Lake Zephyr/Meadowlawn Subdivision Drainage and Retention Project	Drainage improvements and additional retention are necessary to restore natural flows, contain flood waters and mitigate future flooding events.	Zephyrhills and Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 11/08	Lake Pasadena SubBasin of the East Zephyrhills Basin is currently being studied by URS and the results of the study are due in late 2008 or early 2009. Study is being co-funded by Pasco County and SWFWMD.
DB	25	Lost Lake Restoration Project	Phase I = Acquire 9 properties. Phase II = Demolish properties. Phase III = Construct additional retention facilities.	Pasco County Emergency Management and Stormwater Management	Floods	Property Acquisition and Stormwater Improvement Project/	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 1/09	Received HMGP Award Oct 1999 for El Nino (DR-1195). Properties acquired and demolished. Phase I and II COMPLETED. Phase III, the construction of additional retention facilities, has not been scheduled yet, and funding for the project has not been determined.
DC	25	Louis Avenue Project	Rebuild road and cross drains in Pinellas Anclote Study Area, between US 19 and Alternate 19.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 11/08	Project not active at present time.

Pasco County Local Mitigation Strategy (LMS) Active Project/Program List

ID	Score	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Additional Goals/Objectives	Time Frame	Date Update	Project Status
DD	25	Lower Coastal Watershed Management Plan Implementation	Implementation of BMPs identified in the Stormwater Management Master Plan-SWMMP	Pasco County	Floods	Stormwater Management	Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant Program; Emergency Management Preparedness and Assistance Trust Fund; Nonpoint Source Implementation Grant; Watershed Protection & Flood.	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 11/08	Stormwater Management Master Plan underway. Completion scheduled for 01/11.
DF	25	Main Street Drainage Project	Construct road and drainage improvements.	New Port Richey and Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 1/09	\$10,000 in drainage work completed. Further activity between Congress and Rowen Roads planned for future.
DL	25	Moog Road/Pinehurst Drive Project	Construct new pond outfall and road improvements in Lower Coastal Study Area.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 11/08	Project is not active at this time.

Pasco County Local Mitigation Strategy (LMS) Active Project/Program List

ID	Score	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Additional Goals/Objectives	Time Frame	Date Update	Project Status
DS	25	New River Ranchettes Project Area	Construct culvert replacement in New River Study Area.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 11/08	SWFWMD and Pasco County study underway and conclude by 2011.
DT	25	New River Watershed Management Plan Improvement	Implementation of BMPs identified in the Stormwater Management Master Plan-SWMMP	Pasco County	Floods	Stormwater Management	Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant Program; Emergency Management Preparedness and Assistance Trust Fund; Nonpoint Source Implementation Grant; Watershed Protection & Flood.	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 1/08	Stormwater Management Master Plan development began 6/07 and is scheduled to be completed by 1/10.
DU	25	Oak Ridge Subdivision Project	Regrade swale and replace culverts in Pinellas Anclote Study Area.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 1/09	Project has not been scheduled, nor funding determined yet.
GP	25	Port Richey RLP Elevations	Elevation of 17 Repetitive Loss Properties in an area of older homes, the majority of which were built prior to the City joining the NFIP	Port Richey	Floods	Retrofitting of Structures	Flood Mitigation Assistance Program, Hazard Mitigation Grant Program	05 Reduce the cost of disaster response and recovery	05.2 Advocate property acquisition or retro-fitting for repetitive loss properties		More than 12 Months	Added 12/08	

Pasco County Local Mitigation Strategy (LMS) Active Project/Program List

ID	Score	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Additional Goals/Objectives	Time Frame	Date Update	Project Status
EH	25	Public Hurricane Shelter Survey Project	Survey public buildings throughout the County to identify facilities for possible use as public shelters. (Cost per campus.)	Pasco County Emergency Management, Dade City, New Port Richey, Port Richey, St. Leo, San Antonio, Zephyrhills	Hurricane/Coastal Storms	Critical Facilities Retrofit Project	Emergency Management Preparedness and Assistance Trust Fund; Hazard Mitigation Grant Program	01 Protect the health, safety and welfare of the public	01.3 Provide sufficient shelter space to satisfy in-County demand			Updated 1/08	Pasco County Surveys will continue through FY 08.
EI	25	Regional Hurricane Route and Signal Timing Study for Hurricane Evacuation	Study of each County Evacuation Plan in the Tampa Bay Area to determine adequacy of evacuation routes and development of signal timing plans for computerized signals.	Pasco County Emergency Management, Pinellas County, Hillsborough County and Manatee County	Hurricane/Coastal Storms	Feasibility Study	Emergency Management Preparedness and Assistance Trust Fund; Federal Highway Administration; Transportation Efficiency Act of the 21st Century	10 Regulate and prioritize the construction and/or enhance the protection of critical facilities and infrastructure	10.3 Encourage capital improvement expenditures for critical infrastructure	10 (10.1)	More than 12 Months	Updated 1/08	Tampa Bay Regional Planning Council completed and issued results of Regional Hurricane Evacuation Study during 2006. Signal timing study still needs to be done. Pasco County has installed automatic timing for signals.
EM	25	Riverside Village Project Area	Regrade roadside swales, rebuild roadway and clean/repair culverts.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 11/08	Project is not active at this time.
ER	25	Scenic Drive/Jasmine Blvd. Project	Construct box culvert and rebuild road in Double Hammock Creek Study Area.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 11/08	Study began 10/01/07 and scheduled for completion 2010.

Pasco County Local Mitigation Strategy (LMS) Active Project/Program List

ID	Score	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Additional Goals/Objectives	Time Frame	Date Update	Project Status
EU	25	Silver Oaks Drainage Basin Improvements	Construct cross drain improvements in Silver Oaks area.	Zephyrhills/Pasco County Stormwater Management	Flood	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 11/08	Details of specific improvements is an ongoing process being worked on by Swiftmud and Pasco County Engineer. Project will not be permitted by SWFWMD unless two separate drainage basins are merged. BMPs delivered and project is ranked low due to being totally within the City of Zephyrhills
EW	25	Tampa Downs Project Area	Construct box culvert and repair road in Trout Creek Study Area.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 11/08	SWFWMD and Pasco County study due 02/09. BMPs delivered and engineering to begin by 01/09.
EY	25	Trouble Creek Road at Wiggins Drive	Storm sewer improvements and construction of retention pond for Lower Coastal Study Area Project. Phase I-A complete.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 11/08	Project is not active at this time.

Pasco County Local Mitigation Strategy (LMS) Active Project/Program List

ID	Score	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Additional Goals/Objectives	Time Frame	Date Update	Project Status
FA	25	Trout Creek Watershed Management Plan Implementation	Implementation of BMPs identified in the Stormwater Management Master Plan-SWMMP	Pasco County	Floods	Stormwater Management	Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 11/08	Stormwater Management Master Plan completed during 2007. BMPs delivered. Engineering of first BMP to begin 01/09.
FB	25	Upper Hillsborough Watershed Management Plan Implementation	Implementation of BMPs identified in the Stormwater Management Master Plan-SWMMP.	Pasco County	Floods	Stormwater Management	Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant Program; Emergency Management Preparedness and Assistance Trust Fund; Nonpoint Source Implementation Grant; Watershed Protection & Flood.	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 1/08	Stormwater Management Master Plan currently being developed. Started 6/07 and scheduled to be completed by 1/10.
FC	25	Viva Villas Project Area	Repave roads and construct storm sewer and retention area in Hammock Creek Study Area.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 11/08	Project is not active at this time.

Pasco County Local Mitigation Strategy (LMS) Active Project/Program List

ID	Score	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Additional Goals/Objectives	Time Frame	Date Update	Project Status
FE	25	West Port Project Area Phase II	Ditch cleaning and storm sewer improvements in Double Hammock Creek Study Area.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 11/08	Major cleaning of the ditch completed 6/08. Improvements waiting on study started 10/1/07 and scheduled for completion 2011.
FF	25	Williams Acres Project, Trout Creek, S.R. 54 & C.R. 577	Construct ditches and culverts.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 11/08	Study due 02/01/09. BMPs delivered. Project not scheduled
FG	25	Williams Double Branch Estates	Culvert Replacement in Upper East Cypress Study Area.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 11/08	SWFWMD and Pasco County study and BMPs due 02/09.

Pasco County Local Mitigation Strategy (LMS) Active Project/Program List

ID	Score	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Additional Goals/Objectives	Time Frame	Date Update	Project Status
FH	25	Williams New River Project Area, west of Morris Bridge Road	Construct culvert replacement in New River Study Area.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 11/08	SWFWMD and Pasco County study began 2007 and to be completed by 2010.
FR	25	Zephyrhills Stormwater Management Plan	Update and modify the Stormwater Management Plan, and identify cost-effective stormwater improvements.	Zephyrhills and Pasco County Stormwater Management	Floods	Management Plan Development and Modification	Emergency Management Preparedness and Assistance Trust Fund	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff			Updated 9/03	FY 2000 - Partially funded with EMPATF Competitive Grant. PROJECT COMPLETED.
GS	24	Bay Blvd Lift Station Upgrade	Upgrade of Bay Blvd Lift Station	Port Richey	Floods	Infrastructure	Capitalization Grants for Clean Water State Revolving Funds, Hazard Mitigation Grant Program	10 Regulate and prioritize the construction and/or enhance the protection of critical facilities and infrastructure	10.2 Prioritize and retrofit existing critical facilities and infrastructure		Less than 12 Months	Added 12/08	
GQ	24	Oelsner Lift Station Upgrade	Upgrade of Oelsner Lift Station	Port Richey	Floods	Infrastructure	Capitalization Grants for Clean Water State Revolving Funds, Hazard Mitigation Grant Program	10 Regulate and prioritize the construction and/or enhance the protection of critical facilities and infrastructure	10.2 Prioritize and retrofit existing critical facilities and infrastructure		Less than 12 Months	Added 12/08	

Pasco County Local Mitigation Strategy (LMS) Active Project/Program List

ID	Score	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Additional Goals/Objectives	Time Frame	Date Update	Project Status
GO	24	Pandemic Flu Plan	A comprehensive plan designed to protect, prevent, implement and mitigate the effects of a large disease outbreak such as pandemic flu. Focus on prevention, isolation and quarantine, social distancing and treatment if any major public health emergency. The institution of tiers or measures that define major and minor disease outbreaks will be set forth. A plan to return the county to a pre-disease level operation will be recommended.	Pasco County Health Department	Pandemic Flu	Management Plan	Centers for Disease Control	11 Minimize the effects of pandemic influenza or other disease outbreak	11.1 Continue to enhance measures addressing pandemic influenza or other disease outbreak		Less than 12 Months	Added 12/08	
ED	24	Port Richey Lift Station Flood Proofing Project Phase I (48 Lift Stations)	Elevation of controls & flood proofing of 48 lift stations and flood proofing of manholes with three foot rings. All are located below the Base Flood Elevation.	Port Richey	Floods	Critical Facilities Project	Emergency Management Preparedness and Assistance Trust Fund	10 Regulate and prioritize the construction and/or enhance the protection of critical facilities and infrastructure	10.2 Prioritize and retrofit existing critical facilities and infrastructure		More than 12 Months	Updated 12/08	Three lift stations are scheduled for 2009 and 14 manholes have been fitted with rings to date. Further work on both projects is planned as funding becomes available.
GR	24	Queener Lift Station Upgrade	Upgrade of Queener Avenue Lift Station	Port Richey	Floods	Infrastructure	Capitalization Grants for Clean Water State Revolving Funds, Hazard Mitigation Grant Program	10 Regulate and prioritize the construction and/or enhance the protection of critical facilities and infrastructure	10.2 Prioritize and retrofit existing critical facilities and infrastructure		Less than 12 Months	Added 12/08	
GM	23	Emergency Generator	Install an emergency generator at Centennial Elementary School to supply backup power to the water well and waste plant during shelter operations	District School Board of Pasco County	Hurricanes, Coastal Storms	Critical Facilities		10 Regulate and prioritize the construction and/or enhance the protection of critical facilities and infrastructure	10.2 Prioritize and retrofit existing critical facilities and infrastructure		Less than 12 Months	Added 11/08	

Pasco County Local Mitigation Strategy (LMS) Active Project/Program List

ID	Score	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Additional Goals/Objectives	Time Frame	Date Update	Project Status
FX	23	Post-disaster Redevelopment for Business and Industry	Coordinate with business and industry on the development of a plan that addresses business interests/concerns for Post-Disaster Redevelopment.	Pasco County Economic Development Council	All Hazards	Regulatory Initiatives		03 Encourage economic diversification and development	03.1 Assist and encourage new economic development and post-disaster redevelopment		More than 12 Months	Added 11/08	
EP	23	San Antonio Outreach Educational Program	Public Outreach Program (flyers/informational brochures) to inform residents about all types of hazards and disaster preparedness.	San Antonio and St. Leo	Multiple Hazards	Public Education Program	Emergency Management Preparedness and Assistance Trust Fund; Environmental Education Grant	01 Protect the health, safety and welfare of the public	01.1 Inform and educate the public about potential hazards and property protection measures		More than 12 Months	Updated 1/09	Brochures and flyers concerning hazards and disaster preparedness are available at City Halls. Plan is to expand the program in the future by adding to selection and types of brochures and flyers available while addressing an all hazards environment. Some information has been printed at the Cities cost.
FQ	23	Zephyrhills Retrofit of Critical Facilities	Add window protection to City Hall and two fire stations in order to ensure continuation of critical municipal functions.	Zephyrhills	Hurricane/Coastal Storms	Critical Facilities Retrofit Project	Emergency Management Preparedness and Assistance Trust Fund; Hazard Mitigation Grant Program	10 Regulate and prioritize the construction and/or enhance the protection of critical facilities and infrastructure	10.2 Prioritize and retrofit existing critical facilities and infrastructure		More than 12 Months	Updated 1/08	As funding becomes available, retrofitting of critical facilities will be done.
AL	22	Beauchamp Retention Ponds Stormwater Project	Engineering study with SWFWMD to increase the depth of the ponds and effects of pumping to other basins. This project would affect the #059 Dade Oaks II Project, along with the engineering study for the City Storm Water Management Plan (#055;E-17).	Dade City	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 12/08	Awaiting release of new FIRMs before attempting to determine redesigned stormwater system for this project. Project will be evaluated after view of new FIRMs. FIRMs should be released in late 2009.

Pasco County Local Mitigation Strategy (LMS) Active Project/Program List

ID	Score	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Additional Goals/Objectives	Time Frame	Date Update	Project Status
CH	22	Howard Avenue Stormwater Project	Resize culverts draining to the lift station, upgrade lift station and upgrade outfall.	Dade City	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		More than 12 Months	Updated 12/08	Project was divided into two phases. Phase I was completed by the City. This phase included the installation of a 24" RCP along Howard Ave and the construction of a retention pond. Phase II will include the upgrade of the stormwater pump station and outfall.
AC	21	Anclote Project Area	Elevation of 8 Repetitive Loss Properties, in an area of older homes built prior to the County joining the National Flood Insurance Program.	Pasco County Development Services, Emergency Management	Floods	Retrofitting of Structure(s)	Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Pre-Disaster Mitigation Program	05 Reduce the cost of disaster response and recovery	05.2 Advocate property acquisition or retro-fitting for repetitive loss properties		More than 12 Months	Updated 1/09	Dec. 1999 HMGP Grant 1195-096 approved for \$47,846 for elevation of 3365 Elfers Pkwy. Pursuit of homeowners to elevate in this area will continue as funding is made available for modified elevations.
AD	21	Aripeka Project Area	Elevation of 8 Repetitive Loss Properties, built prior to the County joining the National Flood Insurance Program.	Pasco County Development Services	Floods	Retrofitting of Structure(s)	Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Pre-Disaster Mitigation Program	05 Reduce the cost of disaster response and recovery	05.2 Advocate property acquisition or retro-fitting for repetitive loss properties		More than 12 Months	Updated 1/09	Pursuit of homeowners to elevate in this area will continue as funding is made available for modified elevations.
AF	21	Baillies Bluff Project Area	Elevation of 5 Repetitive Loss Properties in an area of older homes built between 1967 and 1977 prior to the County joining the National Flood Insurance Program.	Pasco County Development Services	Floods	Retrofitting of Structures	Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Pre-Disaster Mitigation Program	05 Reduce the cost of disaster response and recovery	05.2 Advocate property acquisition or retro-fitting for repetitive loss properties		More than 12 Months	Updated 1/09	Pursuit of homeowners to elevate in this area will continue as funding is made available for modified elevations.
AH	21	Bass Lake Drainage Area Phase I	Elevation of 10 Repetitive Loss Properties in an area of properties developed prior to the County joining the National Flood Insurance Program.	Pasco County Development Services	Floods	Retrofitting of Structure(s)	Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Pre-Disaster Mitigation Program	05 Reduce the cost of disaster response and recovery	05.2 Advocate property acquisition or retro-fitting for repetitive loss properties		More than 12 Months	Updated 1/09	2004 FMAP Grant Award made for 8526 Cameo Dr. which was completed in August 2006. Pursuit of homeowners to elevate in this area will continue as funding is made available for modified elevations

Pasco County Local Mitigation Strategy (LMS) Active Project/Program List

ID	Score	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Additional Goals/Objectives	Time Frame	Date Update	Project Status
BR	21	Elevation of Putnam Dwelling	Modified elevation of Putnam Home at 5422 Bellview Ave., New Port Richey	New Port Richey	Floods	Elevation of home to eliminate flooding	Flood Mitigation Act	05 Reduce the cost of disaster response and recovery	05.2 Advocate property acquisition or retro-fitting for repetitive loss properties		More than 12 Months	Updated 12/08	FMA grant awarded. Dwelling leveled, land cleared and pilings installed during 2006. Remainder of elevation project to be completed during 2007. Extended until 2009.
CA	21	Green Key Project Area Phase I	Elevation of 88 Repetitive Loss Properties in an area of older homes, the majority were built prior to the County joining the National Flood Insurance Program.	Pasco County Development Services and New Port Richey	Floods	Property Protection	Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Pre-Disaster Mitigation Program	05 Reduce the cost of disaster response and recovery	05.2 Advocate property acquisition or retro-fitting for repetitive loss properties		More than 12 Months	Updated 1/09	1998 FMAP - 6719 Manor Beach RD COMPLETE; 1999 FMAP - 6727 Manor Beach RD COMPLETE; 6744 Arroyo DR (Capraro) DROPPED OUT; 6519 Oelsner ST (Gause). Pursuit of homeowners to elevate in this area will continue as funding is made available for modified elevations.
CJ	21	Hudson Project Area	Elevation of 306 Repetitive Loss Properties, in an area characterized by older homes built on canals in the 1960's and the 1970's.	Pasco County Development Services	Floods	Retrofitting of Structure(s)	Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Pre-Disaster Mitigation Program	05 Reduce the cost of disaster response and recovery	05.2 Advocate property acquisition or retro-fitting for repetitive loss properties		More than 12 Months	Updated 1/09	Pursuit of homeowners to elevate in this area will continue as funding is made available for modified elevations. On January 27, 2009, the County was approved for a 2008 FMAP Grant Award for 6709 Clark Street. The homeowner is reviewing the contract to determine if they wish to proceed with the project.
EB	21	Pithlachascotee Project Area	Elevation of 2 Repetitive Loss Properties in an area characterized by the unplatted division of property along the Pithlachascotee River.	Pasco County Development Services	Floods	Retrofitting of Structure(s)	Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Pre-Disaster Mitigation Program	05 Reduce the cost of disaster response and recovery	05.2 Advocate property acquisition or retro-fitting for repetitive loss properties		More than 12 Months	Updated 1/09	Pursuit of homeowners to elevate in this area will continue as funding is made available for modified elevations.
FD	21	West Port Project Area Phase I	Elevation of 12 Repetitive Loss Properties, in an area of residential homes built in the 1970's.	Pasco County Development Services	Floods	Retrofitting of Structure(s)	Community Development Block Grant; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Pre-Disaster Mitigation Program	05 Reduce the cost of disaster response and recovery	05.2 Advocate property acquisition or retro-fitting for repetitive loss properties		More than 12 Months	Updated 1/09	Pursuit of homeowners to elevate in this area will continue as funding is made available for modified elevations.

Pasco County Local Mitigation Strategy (LMS) Active Project/Program List

ID	Score	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Additional Goals/Objectives	Time Frame	Date Update	Project Status
FI	21	Withlacoochee Project Area	Elevation of two Repetitive Loss Properties, in an area of large lots with homes built prior to the County joining the National Flood Insurance Program.	Pasco County Development Services	Floods	Retrofitting of Structure(s)	Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Pre-Disaster Mitigation Program	05 Reduce the cost of disaster response and recovery	05.2 Advocate property acquisition or retro-fitting for repetitive loss properties		More than 12 Months	Updated 1/09	Pursuit of homeowners to elevate in this area will continue as funding is made available for modified elevations.
FW	20	Post-disaster Temporary Housing	Develop a provision in the Post-Disaster Recovery Ordinance that addresses post-disaster temporary housing.	Pasco County Emergency Management	All Hazards	Regulatory Initiatives	Funding is not necessary to develop the addition to the ordinance.	05 Reduce the cost of disaster response and recovery	05.3 Establish and implement a plan for post-disaster temporary housing		More than 12 Months	Added 11/08	
EQ	20	San Antonio Stormwater Management Plan	City-wide engineering study to identify cost-effective stormwater improvements that are necessary to correct existing problems and to prepare policy guidelines that will mitigate for potential flooding.	San Antonio	Floods	Stormwater Management	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff		Less than 12 Months	Updated 1/09	The required field work for our stormwater study has been completed. After recommendations are compiled by the consulting engineers San Antonio will prioritize projects and pursue funding to implement the recommendations.
GE	20	Special Needs Population Software	Web-based HIPPA secure program to track the special needs population within the county.	Pasco County Emergency Management	All Hazards	Management Plan	EMPATF	01 Protect the health, safety and welfare of the public	01.1 Inform and educate the public about potential hazards and property protection measures	1 (1.3)	Less than 12 Months	Added 11/08	
DV	19	Pasco County Animal Control Power Back-Up	Purchase of Emergency Generator for Pasco County Animal Services, a critical facility for the housing and care of animals in West, Central and East Pasco County.	Pasco County Emergency Management and Animal Control	Hurricane/Coastal Storms	Critical Facilities Project	Emergency Management Preparedness and Assistance Trust Fund	10 Regulate and prioritize the construction and/or enhance the protection of critical facilities and infrastructure	10.2 Prioritize and retrofit existing critical facilities and infrastructure		More than 12 Months	Updated 1/08	New animal shelter scheduled to come online at earliest during 2009. Shelter to be wired for generator, but will not have generator included. Portable generator to be supplied by County when need arises. Will continue to search for funding to install permanent generator.

Pasco County Local Mitigation Strategy (LMS) Active Project/Program List

ID	Score	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Additional Goals/Objectives	Time Frame	Date Update	Project Status
BY	18	Generators for San Antonio Municipal Facilities	Purchase of Emergency Generators for facilities such as San Antonio City Hall and Fire Station.	San Antonio	Hurricane/Coastal Storms	Critical Facilities Project	Emergency Management Preparedness and Assistance Trust Fund	10 Regulate and prioritize the construction and/or enhance the protection of critical facilities and infrastructure	10.2 Prioritize and retrofit existing critical facilities and infrastructure		More than 12 Months	Updated 1/09	Generator purchased and installed at water plant. Funding not currently available for generators at San Antonio City Hall and Fire Station next door.
DW	18	Pasco County Educational Outreach Program	Institute or continue public education programs that promote risk reduction, the purchase of flood and wind insurance, evacuation procedures and shelter availability, disaster preparedness and education for citizens and businesses, and the safe storage and disposal of household and commercial hazardous materials. Education provided through re-publications of disaster brochures and public speaking engagements.	Pasco County	All Hazards	Public Education Project	Emergency Management Preparedness and Assistance Trust Fund (EMPATF)	01 Protect the health, safety and welfare of the public	01.1 Inform and educate the public about potential hazards and property protection measures		More than 12 Months	Updated 1/08	Application to be submitted for EMPATF Grant. Received weather radios from DEM at no cost to County, a distribution plan is being developed.
DZ	18	Pasco County Retrofit of Critical Facilities	Retrofit of buildings on the Critical Facility Inventory to include window protection and security enhancements to ensure continuation of critical functions. CFI has several hundred facilities. Its not feasible to list estimated costs separately here.	Pasco County Emergency Management	Hurricane/Coastal Storms	Critical Facilities Retrofit Project	Emergency Management Preparedness and Assistance Trust Fund; Hazard Mitigation Grant Program	10 Regulate and prioritize the construction and/or enhance the protection of critical facilities and infrastructure	10.2 Prioritize and retrofit existing critical facilities and infrastructure		More than 12 Months	Updated 1/08	Pasco County Facilities submitting 4 facilities and Fire/Rescue submitting 3 for FY 2000-2001 EMPA Grant. Funding not awarded. COOP Working group conducting security surveys of critical facilities and identifying needed enhancements. This is an ongoing effort to retrofit critical facilities.
EG	18	Public Hurricane Shelter Retrofit Projects	Pasco County surveys public shelters to Hurricane Evacuation Shelter Standards. Retrofittable structures are submitted to State Retrofit List. Only those facilities approved on State Retrofit List will be retrofitted.	Pasco County Emergency Management, Dade City, New Port Richey, Port Richey, St. Leo, San Antonio, Zephyrhills	Hurricane/Coastal Storms	Critical Facilities Retrofit Project	Emergency Management Preparedness and Assistance Trust Fund; Hazard Mitigation Grant Program	01 Protect the health, safety and welfare of the public	01.3 Provide sufficient shelter space to satisfy in-County demand		More than 12 Months	Updated 1/08	HB 7121 awarded grants for two generators for Pasco County. The generators are scheduled to be installed at two schools by June in 2007. Funds are pending for additional schools to receive generators. Funding fell short and only one school Wiregrass High is funded currently, additional schools pending further funding.

Pasco County Local Mitigation Strategy (LMS) Active Project/Program List

ID	Score	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Additional Goals/Objectives	Time Frame	Date Update	Project Status
GH	18	Review of Stormwater Master Plan	Review of Stormwater Master Plan	Port Richey	Floods	Management Plan	Capitalization Grants for Clean Water State Revolving Funds, Flood Mitigation Assistance Program, Pre-Disaster Mitigation (PDM) Program Water Pollution Control & Watershed Protection and Flood Prevention, SWFTMD	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff	9 (9.1)	More than 12 Months	Added 11/08	
AZ	14	Community Shelter Retrofits in Recreational Vehicle Parks	Manufactured home communities and RV Parks are encouraged to retrofit community centers/clubhouses to be used as shelters for their residents.	Pasco County Emergency Management	Hurricane/Coastal Storms	Retrofitting of Structures	Emergency Management Preparedness and Assistance Trust Fund; Hazard Mitigation Grant Program; Flood Mitigation Assistance Program	01 Protect the health, safety and welfare of the public	01.3 Provide sufficient shelter space to satisfy in-County demand		More than 12 Months	Updated 1/08	Project costs and benefits will vary by community. There are approximately 350+ parks in the County. This is an ongoing initiative and will continue to be stressed in speaking engagements Emergency Management staff provides to citizens located in manufactured homes and RV Parks.
GB	14	Nextel Re-banding	Nextel is replacing the EDACS 800 trunk Public Safety Radio System with current EDACS site pro GPS simulcast system. Nextel needed to replace system due to outdated technology and not being able to re-tune for new frequencies. The FCC mandated that Nextel pay for the upgrades to stop the interference of the 800 radio frequency spectrum. Nextel will move existing license holders to the lower end of the 800 frequency and Nextel will occupy the upper end of the frequency spectrum.	Pasco County Information Technology and Communications	All Hazards	Infrastructure	Funding is not necessary	10 Regulate and prioritize the construction and/or enhance the protection of critical facilities and infrastructure	10.2 Prioritize and retrofit existing critical facilities and infrastructure		Less than 12 Months	Added 11/08	

Pasco County Local Mitigation Strategy (LMS) Active Project/Program List

ID	Score	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Additional Goals/Objectives	Time Frame	Date Update	Project Status
DX	13	Pasco County Fleet Maintenance Hazardous Waste Mitigation Project - D&E Maintenance Facility	Development and implementation of a plan to control and capture the surface run-off from the D & E Maintenance Facility in New Port Richey.	Pasco County Fleet Maintenance	Floods	Critical Facilities Project	Emergency Management Preparedness and Assistance Trust Fund	10 Regulate and prioritize the construction and/or enhance the protection of critical facilities and infrastructure	10.2 Prioritize and retrofit existing critical facilities and infrastructure		More than 12 Months	Updated 1/08	To be scheduled.
DY	13	Pasco County Hazardous Waste Mitigation Project - C Barn Maintenance Facility	Recycle motor vehicle car wash fluids. Purchase and construct a self-contained car wash system at C-Barn Maintenance Facility in the Dade City/San Antonio area.	Pasco County Fleet Maintenance	Hazard Materials Incidents	Critical Facilities Project	Emergency Management Preparedness and Assistance Trust Fund	10 Regulate and prioritize the construction and/or enhance the protection of critical facilities and infrastructure	10.2 Prioritize and retrofit existing critical facilities and infrastructure		More than 12 Months	Updated 1/08	Not currently active, since County is outgrowing C-Barn facility and is contemplating moving to a larger facility in the County. Stopped washing cars and are pursuing a different location at this time
EK	11	Residential Safe Rooms	Encourage residents to construct/retrofit safe rooms in their homes using FEMA criteria.	Countywide	Hurricane/ Coastal Storms, Tornados, Nuclear Power Plant Incident	Retrofitting of Structures	Emergency Management Preparedness and Assistance Trust Fund; Hazard Mitigation Grant Program; Flood Mitigation Assistance Program	01 Protect the health, safety and welfare of the public	01.1 Inform and educate the public about potential hazards and property protection measures		More than 12 Months	Updated 1/08	Project costs and benefits will vary by residence. This is a continuing effort to encourage homeowners to construct safe rooms.

Pasco County Local Mitigation Strategy (LMS) Completed Project/Program List

ID	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Date	Project Status
BK	Development of Post Disaster Redevelopment Plan (PDRP) and Recovery and Reconstruction Ordinance	Develop PDRP and Recovery and Reconstruction Ordinance that integrates important hazard mitigation initiatives into the City's planning documents and ordinances.	New Port Richey	Floods, Coastal Storms, River Erosion	Regulatory Initiatives	HMGP	05 Reduce the cost of disaster response and recovery	05.1 Develop and implement guidelines for Post-Disaster Redevelopment	Updated 1/09	Hazard Mitigation Planning Grant Application has been submitted. Awaiting decision from FEMA regarding a grant award. Funding Denied. PROJECT CLOSED
AV	Carpenters Run Stormwater Management Improvement Plan	Construct emergency gravity out fall to alleviate flooding at the Carpenters Run Subdivision by decreasing high water surfaces within the receiving wetland system.	Pasco County	Floods	Structural Project	Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant Program; Emergency Management Preparedness and Assistance Trust Fund; Nonpoint Source Implementation Grant; Watershed Protection & Flood.	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff	Updated 1/08	To be scheduled. Completed during 2007. PROJECT COMPLETED.
FJ	Zephyr Creek Drainage Project	Phase V (Geiger Rd. Pond): Drainage improvements and additional retention are necessary to restore natural flows, contain flood waters and mitigate future flooding events.	Pasco County Stormwater Management	Floods	Structural Project	Community Development Block Grant Program; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Special Economic Development & Adjustment Assistance Program; Watershed Protection & Flood Prevention	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff	Updated 1/08	Geiger Rd detention pond constructed with El Nino Grande FY 2000 funds - \$2,428,000, plus \$2,000,000 SWFWMD and \$2,000,000 Pasco County funds. PROJECT COMPLETED.

Pasco County Local Mitigation Strategy (LMS) Completed Project/Program List

ID	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Date	Project Status
AM	Beinhauer Acquisitions	Acquisition of 3 single family homes to alleviate flooding. Beinhauer Properties at 36800, 36816 and 36820 Sunshine Road in Zephyrhills	Pasco County Emergency Management	Floods	Property Protection	Hazard Mitigation Grant Program	05 Reduce the cost of disaster response and recovery	05.2 Advocate property acquisition or retrofitting for repetitive loss properties	Updated 1/08	Applications submitted. Grant awards received for 36800, 36816 and 36820 Sunshine Rd. properties. Added funding requested for two properties to attempt to match fair market appraisal without the hazard. Added funding received. Offer made to homeowner and homeowner accepts for 2 of 3 properties (36800 Sunshine excluded for time being). BCC approves contracts and properties close as properties of Pasco County. Demolition of dwellings and restoration of land to natural state will occur early 2008.
CK	Humphrey Acquisition and Relocation (Name change from Humphrey to Fair)	Acquire property at 16234 Tomahawk St. in Hudson and relocate mobile home on property to alleviate flooding.	Pasco County Emergency Management	Floods	Property Protection	Hazard Mitigation Grant Program	05 Reduce the cost of disaster response and recovery	05.2 Advocate property acquisition or retrofitting for repetitive loss properties	Updated 1/08	Application submitted. Awaiting decision from FEMA/State of Florida regarding grant award. Grant award received. Request to project manager made for added funding. Without added funding, project is not viable.
CZ	Leonard Road Project	Construct cross drain improvements in South Lakes Study Area.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff	Updated 11/08	Some drain improvements completed by Public Works. No further activity is scheduled.
DG	Mauldin Acquisition	Acquire property at 17641 Thomas Blvd. in Hudson to alleviate flooding.	Pasco County Emergency Management	Floods	Acquisition of homes to alleviate flooding.	Hazard Mitigation Grant Program	05 Reduce the cost of disaster response and recovery	05.2 Advocate property acquisition or retrofitting for repetitive loss properties	Updated 10/08	Application submitted. Grant award received. Added funding requested to meet FMV. Added funding resulted in negative Benefit Cost Analysis. Homeowner declined to sell for less than FMV. Grant award returned to DEM. PROJECT CLOSED.

Pasco County Local Mitigation Strategy (LMS) Completed Project/Program List

ID	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Date	Project Status
DH	Mayler Acquisition	Acquire property at 9340 Yellow Lake Drive in New Port Richey to alleviate flooding.	Pasco County Emergency Management	Floods	Acquisition of home to alleviate flooding.	Hazard Mitigation Grant Program	05 Reduce the cost of disaster response and recovery	05.2 Advocate property acquisition or retrofitting for repetitive loss properties	Updated 1/08	Application submitted. Grant award received. Added funding requested to attempt to match fair market appraisal. Added funding received. Offer made to homeowner and homeowner accepts. BCC approves contract and property closes as property of Pasco County. Demolition of dwelling and restoration of land to natural state to occur in early 2008.
DO	Motl Acquisition	Acquire property at 3352 Sandy Drive in Zephyrhills to alleviate flooding.	Pasco County Emergency Management	Floods	Acquisition of home to alleviate flooding.	Hazard Mitigation Grant Program	05 Reduce the cost of disaster response and recovery	05.2 Advocate property acquisition or retrofitting for repetitive loss properties	Updated 4/05	Application being submitted. Homeowner withdrew application due to sale of property to developer. PROJECT CLOSED.
DP	Murray Acquisition	Acquire property at 17701 Thomas Blvd. in Hudson to alleviate flooding.	Pasco County Emergency Management	Floods	Acquisition of homes to alleviate flooding.	Hazard Mitigation Grant Program	05 Reduce the cost of disaster response and recovery	05.2 Advocate property acquisition or retrofitting for repetitive loss properties	Updated 1/08	Application submitted. Grant award received. Added funding requested to attempt to match fair market appraisal without the hazard. Added funding received. Offer made to homeowner and homeowner accepts. BCC approves contract and property closes as property of Pasco County. Demolition of dwelling and restoration of land to natural state to occur in early 2008.

Pasco County Local Mitigation Strategy (LMS) Completed Project/Program List

ID	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Date	Project Status
CL	Hurricane Window Protection for Baldomero Lopez State Veterans Nursing Home	Place hurricane shutters or film on all windows and doors in the facility.	Baldomero Lopez State Veterans Nursing Home	Hurricane/ Coastal Storms	Critical Facilities Project	Emergency Management Preparedness and Assistance Trust Fund; Hazard Mitigation Grant Program	10	10.2 Regulate and prioritize the construction and/or enhance the protection of critical facilities and infrastructure	Updated 1/07	HMGP Application submitted. Grant award received. Film installed on windows. PROJECT COMPLETED.
BH	Dade Oaks Project Phase I, Marshall Avenue and State Street Intersection Stormwater Project	Drainage improvements and additional retention to restore natural flows, contain flood waters and mitigate future flooding events in the Dade Oaks Public Housing Project.	Dade City and Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08	08.1 Storm water Improvement Maintain and improve existing drainage systems to regulate management of stormwater runoff	Updated 8/03	\$84,138 CDBG funds. COMPLETED 8/00.
FK	Zephyrhills - 5th Avenue from 17th Street to 20th Street	800 feet of 24-inch perforated CPP exfiltration trench (both sides of street).	Zephyrhills	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08	08.1 Storm water Improvement Maintain and improve existing drainage systems to regulate management of stormwater runoff	Updated 10/03	COMPLETED.

Pasco County Local Mitigation Strategy (LMS) Completed Project/Program List

ID	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Date	Project Status
FL	Zephyrhills - 7th Avenue from 2nd Street to 4th Street	Construct additional retention pond, lift station and approximately 500 feet of force main on south side of 7th Avenue.	Zephyrhills	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff	Updated 1/08	Submitting for FY 2003-2004 EMPATF Competitive Grant. City pursuing funding. Seeking to purchase private property for \$30,000. Retention pond will be constructed on this property following purchase. Retention pond construction has been completed. Completed
AX	Carson Drive/US Hwy 41 Project	Construct road and cross drain improvements in South Lakes Study Area.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff	Updated 9/03	Culverts installed. PROJECT COMPLETED.
BS	Fivay Road Project	Road and cross drain improvements in Hammock Creek Study Area.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff	Updated 1/06	Road elevation work completed by Public Works during August 2003. Friction, stripping and work on ditches completed. PROJECT COMPLETED.
DQ	Nelson Elevation	Elevate dwelling at 13631 Garris Drive in Hudson to alleviate flooding.	Pasco County Emergency Management	Floods	Acquisition of homes to alleviate flooding.	Hazard Mitigation Grant Program	05 Reduce the cost of disaster response and recovery	05.2 Advocate property acquisition or retrofitting for repetitive loss properties	Updated 4/05	Application being submitted. Homeowner withdrew application prior to final submission date. PROJECT CLOSED.

Pasco County Local Mitigation Strategy (LMS) Completed Project/Program List

ID	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Date	Project Status
FN	Zephyrhills - Court St. & "C" Avenue	Construct 6-inch diameter force main along north side of "C" Avenue (approx. 1,500 s.f.).	Zephyrhills	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Storm water Improv ement	08.1 Maintain and improve existing drainage systems to regulate manageme nt of stormwater runoff	Updated 3/03	Submitting for FY 2000-2001 EMPATF Competitive Grant. City completed Project 11/2002. COMPLETED.
FP	Zephyrhills Police Station	Construct new police station (\$2,410,000) and include design criteria and space to be used as alternate emergency operations center (EOC) for Pasco County (\$300,000 portion).	Zephyrhills	Hurricane/ Coastal Storms	Critical Facilities Project	Emergency Management Preparedness and Assistance Trust Fund	10 Regula te and prioriti ze the constru ction and/or enhanc e the protecti on of critical facilitie s and infrastr ucture	10.2 Prioritize and retrofit existing critical facilities and infrastruct ure	Updated 4/05	New police station completed and opened. PROJECT COMPLETED.
AJ	Bear Creek Project Area Phase 1	Construct storm sewer and improve pavement in the Double Hammock Creek Study Area.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Storm water Improv ement	08.1 Maintain and improve existing drainage systems to regulate manageme nt of stormwater runoff	Updated 9/03	COMPLETED 2000.

Pasco County Local Mitigation Strategy (LMS) Completed Project/Program List

ID	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Date	Project Status
AO	Berube Acquisition	Acquire single family home Berube home at 15838 Lyle Circle in Hudson to alleviate flooding.	Pasco County Emergency Management	Floods	Acquisition of homes to alleviate flooding.	Hazard Mitigation Grant Program	05 Reduce the cost of disaster response and recovery	05.2 Advocate property acquisition or retrofitting for repetitive loss properties	Updated 6/06	HMGP Grant Awarded. Homeowner declined buyout option and grant award returned to State of Florida. PROJECT CLOSED.
AR	Boujelal Acquisition	Acquire single family Boujelal home at 1147 Grand Boulevard in Holiday to alleviate flooding.	Pasco County Emergency Management	Floods	Acquisition of homes to alleviate flooding.	Hazard Mitigation Grant Program	05 Reduce the cost of disaster response and recovery	05.2 Advocate property acquisition or retrofitting for repetitive loss properties	Updated 1/08	Application submitted. Grant award received. Added funding requested to attempt to match fair market appraisal without the hazard. Modification #1 with added funding received and approved by BCC. Homeowner desires to elevate rather than sell, concern over sinkhole on property may hinder the request. Declined offer.
AT	Briarwood Subdivision	Construct detention pond improvements in Hammock Creek Study Area.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Storm water Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff	Updated 1/06	Pump piping installed. PROJECT COMPLETED.
BA	Craig Acquisition	Acquire property at 14741 10th Street in Dade City to alleviate flooding.	Dade City	Floods	Acquisition of homes to eliminate flood hazard	Hazard Mitigation Grant Program	05 Reduce the cost of disaster response and recovery	05.2 Advocate property acquisition or retrofitting for repetitive loss properties	Updated 5/06	Application submitted. Grant award received. Acquisition and demolition to occur during 2006. Homeowner declined buyout offer and would not sell property. Grant award returned to State of Florida. PROJECT CLOSED.

Pasco County Local Mitigation Strategy (LMS) Completed Project/Program List

ID	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Date	Project Status
BU	Forest Hills Drive/Harpoon Drive Project	Construct storm sewer improvements in Pinellas Anclote Study Area.	Pasco County Stormwater Management Community Development Division	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff	Updated 8/03	\$60,000 budgeted in FY 2001. PROJECT COMPLETED.
CM	Indian Creek Watershed Project (Sandy Drive Improvement)	Impoundment and culvert replacement in Upper Hillsborough Study Area.	Pasco County Stormwater Management	Floods	Management Plan Development and Modification	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff	Updated 1/06	\$366,954 budgeted in FY 2000. PROJECT COMPLETED during Summer of 2005 utilizing CDBG funding.
CO	Kent Groves/Lussier Lane Project Area	Raise Road and build swales.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff	Updated 3/03	FY 2000 \$50,000 via CDBG. PROJECT COMPLETED.
CR	La Viano Acquisition	Acquire property at 4829 Seaberg Road in Zephyrhills to alleviate flooding.	Pasco County Emergency Management	Floods	Acquisition of homes to alleviate flooding.	Hazard Mitigation Grant Program	05 Reduce the cost of disaster response and recovery	05.2 Advocate property acquisition or retrofitting for repetitive loss properties	Updated 1/08	Application submitted. Grant award received. Added funding requested to attempt to match fair market appraisal without the hazard. Added funding received. Offer made to homeowner and accepted by homeowner. Property now owned by Pasco County. Demolition of dwelling and restoration of land to natural state to occur in early 2008.

Pasco County Local Mitigation Strategy (LMS) Completed Project/Program List

ID	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Date	Project Status
CS	Lake Conley /Lake Nash Project Area Phase III	Control structure replacement and drainage improvements in Lower Coastal Study Area, Phase I-B.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff	Updated 9/03	PROJECT COMPLETED.
CT	Lake Conley/Lake Nash Project Area Phase I (Buena Vista Lane)	Structure modification and shoulder improvements in Lower Coastal Study Area.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff	Updated 9/03	PROJECT COMPLETED..
CU	Lake Conley/Lake Nash Project Area Phase II (Bonita Road)	Construct road and cross drain improvements in Lower Coastal Study Area.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff	Updated 1/06	PROJECT CANCELLED.

Pasco County Local Mitigation Strategy (LMS) Completed Project/Program List

ID	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Date	Project Status
DE	Magnolia Valley Project Area (Bergen Court)	Maintenance of culverts and swales in Pithlachasscotee Study Area.	Pasco County Stormwater Management		Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Storm water Improv ement	08.1 Maintain and improve existing drainage systems to regulate managem ent of stormwater runoff	Updated 3/03	COMPLETED (FY 2000).
DI	McGee Acquisition	Acquire property at 38847 Daughtery Road in Zephyrhills to alleviate flooding.	Pasco County Emergency Management	Floods	Acquisition of homes to alleviate flooding.	Hazard Mitigation Grant Program	05 Reduce the cost of disaster respons e and recover y	05.2 Advocate property acquisition or retro- fitting for repetitive loss properties	Updated 9/06	Application submitted. Grant awarded. Homeowner change to GMAC Mortgage. Added funding requested to attempt to match fair market appraisal without the hazard. Home sold to new owner not interested in acquisition. Notification made to State of Florida that grant award needs to be deobligated. PROJECT CLOSED.
DJ	Melady Acquisition	Acquire property at 12212 Hudson Ave. in Hudson to alleviate flooding.	Pasco County Emergency Management	Floods	Acquisition of homes to alleviate flooding.	Hazard Mitigation Grant Program	05 Reduce the cost of disaster respons e and recover y	05.2 Advocate property acquisition or retro- fitting for repetitive loss properties	Updated 1/08	Application submitted. Grant awarded. Added funding requested to attempt to match fair market appraisal without the hazard. Issues with duplicate benefits included in this project successfully reconciled. Added funding received. Offer made to homeowner and homeowner accepts. BCC approves contract and property closes as property of Pasco County. Demolition of dwelling and restoration of land to natural state to occur in early 2008. DEMO has been completed.
DM	Morales Acquisition	Acquire property at 36709 Thompson Lane in Zephyrhills to alleviate flooding.	Pasco County Emergency Management	Floods	Acquisition of homes to alleviate flooding.	Hazard Mitigation Grant Program	05 Reduce the cost of disaster respons e and recover y	05.2 Advocate property acquisition or retro- fitting for repetitive loss properties	Updated 1/08	Application submitted. Grant award received. Added funding requested to attempt to match fair market appraisal without the hazard. Modification #1 with added funding received and approved by BCC. Final approval of sale will be presented to the BCC in January 2008. COMPLETED.

Pasco County Local Mitigation Strategy (LMS) Completed Project/Program List

ID	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Date	Project Status
EL	Retrofitting/Hardening of 6 EMS Stations (#s 13,15,17,18,20 and 34)	Retrofit/harden 6 EMS Stations in order that these critical facilities can remain staffed during periods when Tropical Storm Force and/or Hurricane Force Winds are being experienced in Pasco County.	Pasco County EMS	Hurricanes	Critical Facilities Project	Pre-Disaster Mitigation Grant	10	10.2	Updated 4/06	PDM Grant Applications for funding of these projects considered. However, due to limitations placed on total number of applications State of Florida can submit under the PDM Program in FY 06, decision made not to submit applications. Rather, approval sought and received from BCC to fund projects from reserves. PROJECT CLOSED.
EN	Rutan Acquisition	Acquire property at 8618 Wire Road in Zephyrhills to alleviate flooding.	Pasco County Emergency Management	Floods	Acquisition of homes to alleviate flooding.	Hazard Mitigation Grant Program	05	05.2	Updated 1/08	Application submitted. Grant award received. Added funding requested to attempt to match fair market appraisal without the hazard. Modification #1 with added funding received and approved by BCC. Homeowner has declined to sell, funding authorization will be returned to DEM
ES	Sea Pines Project Area (Gasparilla Drive, Sea Pines Drive, Lafitte Drive)	Stormwater Improvement Project	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08	08.1	Updated 3/03	\$45,000 budgeted in FY 2000. COMPLETED.

Pasco County Local Mitigation Strategy (LMS) Completed Project/Program List

ID	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Date	Project Status
ET	Shafer Acquisition	Acquire property at 3715 New River Road in Zephyrhills to alleviate flooding.	Pasco County Emergency Management	Floods	Acquisition of homes to alleviate flooding.	Hazard Mitigation Grant Program	05 Reduce the cost of disaster response and recovery	05.2 Advocate property acquisition or retrofitting for repetitive loss properties	Updated 1/08	Application submitted. Grant award received. Added funding requested to attempt to match fair market appraisal without the hazard. Added funding received. Offer made to homeowner and homeowner accepts. BCC approves contract and property closes as property of Pasco County. Demolition of dwelling and restoration of land to natural state to occur in early 2008.
EV	Stoffo Acquisition	Acquire property at 12508 Sherman Drive in Hudson to alleviate flooding impacts on dwelling..	Pasco County Emergency Management	Floods	Acquisition of homes to alleviate flooding.	Hazard Mitigation Grant Program	05 Reduce the cost of disaster response and recovery	05.2 Advocate property acquisition or retrofitting for repetitive loss properties	Updated 1/07	HMGP Grant Awarded. Homeowner declined buyout option and grant award returned to State of Florida. PROJECT CLOSED.
EZ	Trouble Creek Road/Cancille St/Dohrcrest Drive Project	Construct road and cross drain improvements in Lower Coastal Study Area.	Pasco County Community Development	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Community Development Block Grant; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff	Updated 1/06	PROJECT CANCELLED.
DA	Livingston Road Project	Construct road and cross drain improvements in Cypress Creek Study Area Project.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Hazard Mitigation Grant Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff	Updated 3/03	El Nino HMGP Grant 1195-089 engineering approved for \$33,192. 1195-089A approved for \$298,733. Scope being negotiated with consultant. Task order scheduled for 5/15/01 BCC. PROJECT COMPLETED.

Pasco County Local Mitigation Strategy (LMS) Completed Project/Program List

ID	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Date	Project Status
DK	Missouri Avenue Drainage Project	Increase retention area and redesign stormwater system.	New Port Richey	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Storm water Improv ement	08.1 Maintain and improve existing drainage systems to regulate managem ent of stormwater runoff	Updated 12/08	\$552,400 CDBG funds. Project to be completed during first half of 2008. PROJECT COMPLETED IN 2008.
FO	Zephyrhills - South Avenue & 6th Street	Acquisition of two single family homes to alleviate flooding.	Zephyrhills	Floods	Property Acquisition & Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	05 Reduce the cost of disaster respons e and recover y	05.2 Advocate property acquisition or retro- fitting for repetitive loss properties	Updated 1/06	Submitting for FY 2004 EMPATF Competitive Grant. Unable to acquire properties from homeowners. PROJECT ABANDONED.
BF	Dade City Retrofit of Critical Facilities	Add window protection to City Hall Annex and Police Station in order to ensure continuation of critical municipal functions.	Dade City	Hurricane/ Coastal Storms	Critical Facilities Retrofit Project	Emergency Management Preparedness and Assistance Trust Fund; Hazard Mitigation Grant Program	10 Regula te and prioriti ze the constru ction and/or enhanc e the protecti on of critical facilitie s and infrastr ucture	10.2 Prioritize and retrofit existing critical facilities and infrastruct ure	Updated 1/08	Critical facilities retrofit accomplished using in-house materials and general budget funding. PROJECT COMPLETED.

Pasco County Local Mitigation Strategy (LMS) Completed Project/Program List

ID	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Date	Project Status
DR	New Port Richey Retrofit of Municipal Complex	Add window protection to City Hall in order to ensure continuation of critical municipal functions.	New Port Richey	Hurricane/ Coastal Storms	Critical Facilities Retrofit	Emergency Management Preparedness and Assistance Trust Fund; Hazard Mitigation Grant Program	10	10.2 Regulate and prioritize the construction and/or enhance the protection of critical facilities and infrastructure	Updated 10/03	Shutters fitted. PROJECT COMPLETED.
AN	Bell Lake Road Phase I and II	Elevate road.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Hazard Mitigation Grant Program	08	08.1 Storm water and improve existing drainage systems to regulate management of stormwater runoff	Updated 3/03	El Nino HMGP Grant 1195-088 engineering approved for \$6,886. 1195-088A approved for \$61,974. TO and NTP scheduled for BCC 1/3/01 for completion date of 5/3/01. PROJECT COMPLETED.
AS	Bozeman Road Phase I and II	Elevate road and install culvert.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Hazard Mitigation Grant Program	08	08.1 Storm water and improve existing drainage systems to regulate management of stormwater runoff	Updated 3/03	El Nino HMGP Grant 1195-087 engineering approved for \$806. 1195-087A approved for \$7,258. TO and NTP scheduled for BCC 1/3/01 for completion date of 5/3/01. Need right-of-way info. PROJECT CANCELLED.

Pasco County Local Mitigation Strategy (LMS) Completed Project/Program List

ID	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Date	Project Status
AY	Chancey Road Phase I and II	Elevate road and install culvert.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Hazard Mitigation Grant Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff	Updated 3/03	El Nino HMGP Grant 1195-092 engineering approved for \$36,695. 1195-092A approved for \$330,259. Project cancelled due to inability to obtain ROW. PROJECT CANCELLED.
BJ	Dean Dairy Road Phase I and II	Elevate road and install culvert.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Hazard Mitigation Grant Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff	Updated 3/03	El Nino HMGP Grant 1195-102 engineering approved for \$13,224. 1195-102A approved for \$119,011. TO and NTP scheduled for BCC 1/3/01 for completion date of 5/3/01. PROJECT COMPLETED.
DN	Morris Bridge Road Phase I and II	Elevate road.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Hazard Mitigation Grant Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff	Updated 3/03	El Nino HMGP Grant 1195-086 approved for \$17,271. 1995-086A approved for \$155,438. TO and NTP scheduled for BCC 1/3/01 for completion date of 5/3/01. PROJECT COMPLETED.

Pasco County Local Mitigation Strategy (LMS) Completed Project/Program List

ID	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Date	Project Status
EA	Phelps Road Phase I and II	Elevate road and install culvert.	Pasco County Stormwater Management	Floods	Stormwater Improvement Project	Hazard Mitigation Grant Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff	Updated 9/03	El Nino HMGP Grant 1195-095 engineering approved for \$420. 1195-095A approved for \$3,789. TO and NTP scheduled for BCC 1/3/01 for completion date of 5/3/01. Need right-of-way info. PROJECT COMPLETED.
AB	800 Mhz EDACS Public Safety Trunking System	Replace microwave radio backbone with fiber optic cable.	Pasco County Communications	Hurricane/ Coastal Storms	Critical Facility	Emergency Management Preparedness and Assistance Trust Fund	10 Regulate and prioritize the construction and/or enhance the protection of critical facilities and infrastructure	10.2 Prioritize and retrofit existing critical facilities and infrastructure	Updated 1/09	Submitted for 2004 EMPATF Competitive Grant. Grant not awarded. Will continue to search for funding sources for this project. During 2006, mobile communications trailer brought on line via grant funding for \$245,000 to maintain communications in wake of emergency situation that knocks out fixed communications capabilities. Nextel rebanding will probably replace the radio system. PROJECT CLOSED due to lack of available funding.
EO	San Antonio Stormwater Improvement Projects	Identify and correct local flooding/stormwater drainage system conditions for three areas in the City.	San Antonio	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08 Stormwater Improvement	08.1 Maintain and improve existing drainage systems to regulate management of stormwater runoff	Updated 3/03	City requested removal of project from list. PROJECT CANCELLED.

Pasco County Local Mitigation Strategy (LMS) Completed Project/Program List

ID	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Date	Project Status
EC	Port Richey Early Warning System	Installation of buoys at 100 miles and 50 miles off the coast of Port Richey, which are linked to a satellite that can detect extreme tidal surge. Installation of three siren PA warning systems.	Port Richey and Pasco County Emergency Management	Floods	Weather Information Project	Coastal Services Center Cooperative Agreements; Emergency Management Preparedness and Assistance Trust Fund	00 Unassigned	00.0 Unassigned	Updated 1/05	Buoy installed 25 mi offshore Port Richey. Tide gauge installed at Brasher Park and on Aripeka Bridge. All operational as of Sep 2002. USF applied for FY03 EMPATF, for multiple sites, including Anclote pier, in amount of \$199,875. OEM requested \$5k in FY04 budget for maintenance and parts. PROJECT COMPLETED.
FS	Zephyrhills Waste Water	Purchase one Emergency Generator to operate main sewer lift station in order to ensure continuation of critical municipal functions.	Zephyrhills	Hurricane/ Coastal Storms	Critical Facilities Project	Emergency Management Preparedness and Assistance Trust Fund	10 Regulate and prioritize the construction and/or enhance the protection of critical facilities and infrastructure	10.2 Prioritize and retrofit existing critical facilities and infrastructure	Updated 1/06	Generator acquired and installed. PROJECT COMPLETED.
BX	Generators for Port Richey Critical Facilities	Purchase of 25kw emergency generator for fire station.	Port Richey	Hurricane/ Coastal Storms	Critical Facilities Project	Emergency Management Preparedness and Assistance Trust Fund	10 Regulate and prioritize the construction and/or enhance the protection of critical facilities and infrastructure	10.2 Prioritize and retrofit existing critical facilities and infrastructure	Updated 1/07	Two generators have been acquired. PROJECT COMPLETED.

Pasco County Local Mitigation Strategy (LMS) Completed Project/Program List

ID	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Date	Project Status
BG	Dade City Waste Water Treatment System Pumps	Purchase of six pumps for waste water treatment system to ensure continuation of critical municipal functions.	Dade City	Hurricane/ Coastal Storms	Critical Facilities Project	Emergency Management Preparedness and Assistance Trust Fund	10	10.2 Regulate and prioritize the construction and/or enhance the protection of critical facilities and infrastructure	Updated 1/05	New re-use distribution system has been installed and is in operational environment as of 1/25/04. PROJECT COMPLETED.
BZ	Generators for Zephyrhills Municipal Facilities	Purchase of 25kw emergency generators to operate City Hall and the fire station, in order to ensure continuation of critical municipal functions.	Zephyrhills	Hurricane/ Coastal Storms	Critical Facilities Project	Emergency Management Preparedness and Assistance Trust Fund	10	10.2 Regulate and prioritize the construction and/or enhance the protection of critical facilities and infrastructure	Updated 1/08	Generator for City Hall has been acquired and installed and is fully operational. Completed

Pasco County Local Mitigation Strategy (LMS) Completed Project/Program List

ID	Project/Program Name	Project/Program Description	Agency	Hazard	Project Category	Possible Funding Sources	Goal	Objective	Date	Project Status
FT	Zephyrhills Waste Water Treatment System Pumps	Purchase of two 6" pumps for waste water treatment system to ensure continuation of critical municipal functions.	Zephyrhills	Hurricane/ Coastal Storms	Critical Facilities Project	Emergency Management Preparedness and Assistance Trust Fund	10	10.2 Regulate and prioritize the construction and/or enhance the protection of critical facilities and infrastructure	Updated 3/03	Purchased in 2000. PROJECT COMPLETED.
FM	Zephyrhills - 8th Street and 12th Avenue	Install piped storm drain system/exfiltration trench from intersection to existing retention pond.	Zephyrhills	Floods	Stormwater Improvement Project	Capitalization Grants for Clean Water State Revolving Funds; Flood Mitigation Assistance Program; Hazard Mitigation Grant Program; Nonpoint Source Implementation Grants; Watershed Protection & Flood Prevention Program	08	08.1 Stormwater and improve existing drainage systems to regulate management of stormwater runoff	Updated 3/03	Submitting for FY 2000-2001 EMPATF Competitive Grant. Project deemed not feasible. PROJECT CANCELLED.
GL	Vactor Truck	Purchase of a Vactor Truck for use in stormwater maintenance	Port Richey	Floods	Stormwater Management	Capital Grants for Clean Water State Revolving Funds, Flood Mitigation Assistance Program, Hazard Mitigation Grant Program, Nonpoint Source Implementation Grants, Watershed Protection & Flood Prevention Program	08	08.1 Stormwater and improve existing drainage systems to regulate management of stormwater runoff	Added 11/08	Completed January 2009.

APPENDIX F

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Assistance to Firefighters Grant

<p>Overview</p>	<p>To provide financial assistance directly to fire departments and nonaffiliated EMS organizations to enhance their capabilities with respect to fire and fire-related hazards. To help fire departments and nonaffiliated EMS organizations meet their firefighting and emergency response needs. To support organizations that lack the tools and resources necessary to more effectively protect the health and safety of the public and their emergency response personnel with respect to fire and all other hazards.</p>
<p>Eligibility</p>	<p>Eligible applicants for AFG are limited to fire departments and nonaffiliated EMS organizations. Fire departments or nonaffiliated EMS organizations operating in any of the 50 States plus the District of Columbia, the Commonwealth of the Northern Mariana Islands, the Virgin Islands, Guam, American Samoa, and Puerto Rico are eligible for funding. A "fire department" is defined as an agency or organization that has a formally recognized arrangement with a State, territory, local, or tribal authority (city, county, parish, fire district, township, town, or other governing body) to provide fire suppression to a population within a fixed geographical area on a first-due basis. A "nonaffiliated EMS organization" is defined as a public or private nonprofit emergency medical services organization that provides direct emergency medical services, including medical transport, to a specific geographic area on a first-due basis but is not affiliated with a hospital and does not serve a geographic area where emergency medical services are adequately provided by a fire department.</p>
<p>Assistance Provided</p>	<p>This program has no statutory formula. Applicants who protect a population of over 50,000 are required to provide a nonfederal cost-share of not less than 20 percent of the total award. Applicants who protect a population between 20,000 and 50,000 are required to provide a nonfederal cost-share of not less than 10 percent of the total award. Applicants who protect a population of less than 20,000 are required to provide a nonfederal cost-share of not less than 5 percent of the total award. This program also has a Maintenance of Effort requirement intended to ensure that the Federal funds are used to supplement, not supplant, existing resources.</p>
<p>Contacts</p>	<p>Department of Homeland Security, Preparedness Directorate 245 Murray Lane, Bldg. #410 Washington, DC 20528</p>

Buffer Zone Protection Program

<p>Overview</p>	<p>The Buffer Zone Protection Program (BSPP) is one of the grant programs that constitutes the Department of Homeland Security's focus on infrastructure protection activities. It is a tool to help strengthen the nation's critical infrastructure against risks associated with potential terrorist attacks by:</p> <ol style="list-style-type: none"> 1. Identifying significant assets at the site(s) that may be targeted by terrorists for attack. 2. Identifying specific threats and vulnerabilities associated with the site(s) and its significant assets. 3. Developing an appropriate buffer zone extending outward from the facility in which preventive and protective measures can be employed to make it more difficult for terrorists to conduct site surveillance or launch attacks. 4. Identifying all applicable law enforcement jurisdictions and other Federal, State, and local agencies having a role in the prevention of, protection against, and response to terrorist threats or attacks specific to the CIKR site(s) and appropriate points of contact within these organizations. 5. Evaluating the capabilities of the responsible jurisdictions with respect to terrorism prevention and response. 6. Identifying specific planning, equipment, training, and/or exercise requirements that better enable responsible jurisdictions to mitigate threats and vulnerabilities of the site(s) and its buffer zone
<p>Eligibility</p>	<p>Through the BZPP, DHS continues to build on its cross-sector baseline knowledge of CIKR and the systematic approach initiated in FY 2006 to focus sufficient resources to reduce the risk associated with the highest priority CIKR assets across certain targeted sectors. These include:</p> <ul style="list-style-type: none"> • Highest consequence chemical facilities • Nuclear power plants • Higher consequence liquified natural gas facilities • Critical water/wastewater systems • Higher consequence dams • Transportation system critical nodes • Critical telecommunications facilities • Critical banking and finance facilities • Critical public health and healthcare facilities • Select food and agriculture facilities
<p>Assistance Provided</p>	<p>Grantees have not been required to provide a cash or in-kind cost share for BZPP funds. However, there is the potential for future grant programs to be impacted by cost share requirements as early as 2009. Accordingly, grantees should anticipate and plan for future homeland security programs to require cash or in-kind cost-share at levels comparable to other DHS administered grant programs.</p>
<p>Contacts</p>	<p>U.S. Department of Homeland Security/FEMA Grant Programs Directorate/Control Desk 4th Floor, TechWorld 500 C St SW Washington, DC 20472</p>

Capitalization Grants for Clean Water State Revolving Funds

<p>Overview</p>	<p>EPA awards grants to States to capitalize their Clean Water State Revolving Funds (SRF). The States, through the SRF, make loans for high priority water quality activities. As loan recipients make payments back into the fund, money is available for new loans to be issued to other recipients. While traditionally used to build wastewater treatment facilities, loans are used increasingly for other water quality management activities, including: (1) agricultural, silviculture, rural and urban runoff control; (2) estuary improvement projects; (3) wet weather flow control, including stormwater and sewer overflows; (4) alternative wastewater treatment technologies; and (5) nontraditional projects such as landfills and riparian buffers.</p>
<p>Eligibility</p>	<ul style="list-style-type: none"> • Capitalization grant funds available to States, Puerto Rico, Territories and D.C. Indian Tribes can receive project grants from either EPA or Indian Health Service. • States lend money to municipalities, communities, citizens' groups; nonprofit organizations; and private citizens implementing NPS and Estuary management activities (provided for in State plans developed under CES Sections 319 and 320).
<p>Assistance Provided</p>	<ul style="list-style-type: none"> • Loans provided by States to eligible recipients • 20% State match is required
<p>Contacts</p>	<p>U.S. Environmental Protection Agency Office of Wastewater Management SRF Branch, Municipal Support Division (4204) 401 M Street, SW Washington, D.C. 20460 (202) 260-2268 http://www.epa.gov/OW-OWM.html/mab/indian/sec104.htm</p>

Coastal Services Center Cooperative Agreements

Overview	The Coastal Services Center supports projects aimed at developing creative science-based solutions to coastal management issues that will allow maintenance or improvement of natural resources while also allowing for economic growth. The Center will support activities in the following program areas: Landscape Characterization and Restoration; the Coastal Change Analysis Program; Coastal Remote Sensing; Integration and Development; the administration of the Coastal Management Fellowship program; training and meeting facilitation; and Special Projects.
Eligibility	<ul style="list-style-type: none"> • State and local governments, public nonprofit institutions/organizations, other public institutions/organizations.
Assistance Provided	<ul style="list-style-type: none"> • Project Grants (Cooperative Agreements)
Contacts	Department of Commerce National Oceanic and Atmospheric Administration National Ocean Service, Coastal Services Center 2234 South Hobson Avenue Charleston, SC 29405-2413 (843) 974-6200 http://www.CSC.NOAA.gov/funding/CSCgrant.html

Community Assistance Program-State (CAP-SSEE)

Overview	The CAP-SSEE is intended to identify, prevent and resolve floodplain management issues in participating communities before they develop into problems requiring enforcement action. FEMA annually informs each State of its eligibility to participate in the SSEE under notification separate from the solicitation package with the Cooperative Agreement Performance Partnership Agreement (PPA) Package. The SSEE is administered through the Mitigation Division of each FEMA Regional Office. The CAP-SSEE is a product-oriented program directly related to the flood loss reduction objectives of the NFIP.
Eligibility	<ul style="list-style-type: none">• States and Indian Tribes
Assistance Provided	<ul style="list-style-type: none">• Individual grants are awarded based on requests.• States are required to provide a 25 % match.
Contacts	Federal Emergency Management Agency Mitigation Directorate 500 "C" Street, SW Washington, DC 20472 (202)646-4621 http://www.fema.gov/fima/mitactivities.shtm

Community Development Block Grant

<p>Overview</p>	<p>The Community Development Block Grants (CDBG) provide for long-term needs, such as acquisition, rehabilitation, or reconstruction of damaged properties and facilities and redevelopment of disaster-affected areas. Funds may also be used for emergency response activities, such as debris clearance and demolition, extraordinary increases in the level of necessary public services. Eligible projects include the following:</p> <ul style="list-style-type: none"> • Voluntary acquisition, or if appropriate, elevation of storm damaged structures; • Relocation payments for displaced people and businesses; • Rehabilitation or reconstruction of residential and commercial buildings; • Assistance to help people buy homes, including down payment assistance and interest rate subsidies; and • Improvements to public sewer and water facilities.
<p>Eligibility</p>	<ul style="list-style-type: none"> • State governments that have elected to administer CDBG funds for non-entitlement communities. • States with designated major disaster areas may receive statutory and regulatory waivers of program requirements regarding the use of regular CDBG funds which recipients designate to address the damage.
<p>Assistance Provided</p>	<ul style="list-style-type: none"> • Formula grants to States for non-entitlement communities. • Additional grants are not available unless emergency supplemental CDBG funds are appropriated.
<p>Contacts</p>	<p>Department of Housing and Urban Development Community Planning and Development 451 7th Street, SW Washington, D.C. 20410 (202) 708-3587 http://www.hud.gov</p>

Conservation and Recreation Lands

Overview	This grant program is intended to conserve environmentally endangered lands and provide resource conservation measures for other types of lands. Funding is provided for acquisition of environmentally endangered and other lands for resource conservation.
Eligibility	<ul style="list-style-type: none">• States and Indian Tribes
Assistance Provided	<ul style="list-style-type: none">• Individual grants are awarded based on requests.
Contacts	Florida Department of Environmental Protection Division of State Lands Marjory Stoneman Douglas Bldg. 3900 Commonwealth Blvd. MS 100 Tallahassee, FL 32399-3000 (850) 245-2555 http://www.dep.state.fl.us/lands/

Emergency Management Preparedness and Assistance Trust Fund/Municipal Competitive Grant Program

<p>Overview</p>	<p>The Emergency Management Competitive Grant Program and Municipal Competitive Grant Program provide competitive grants to state or regional agencies, local governments, and private non-profit organizations to implement projects that will further state and local emergency management objectives. The Municipal Competitive Grant Program provides competitive grants to municipalities that are legally constituted, have an authorized, established, and maintained emergency management program, and have signed the Statewide Mutual Aid Agreement (SMAA). Applications are accepted in the following four categories under both programs:</p> <ol style="list-style-type: none"> 1. Projects that will promote public education on disaster preparedness and recovery issues. 2. Projects that will enhance coordination of relief efforts of statewide private sector organizations, including public-private business partnership efforts. 3. Projects that will improve the training and operations capabilities of agencies assigned lead or support responsibilities in the State Comprehensive Emergency Management Plan. 4. Other projects that will further state and local emergency management objectives which have been designated by the State of Florida as priorities in the applicable Notice of Fund Availability.
<p>Eligibility</p>	<ul style="list-style-type: none"> • State or regional agencies, local governments, and private non-profit organizations may submit multiple proposals, to implement projects that will further state and local emergency management objectives; however, no individual proposal may exceed \$300,000 in requested grant funds. • Each Municipal Emergency Management Program may apply for one competitive grant not to exceed \$50,000 in requested grant funds.
<p>Assistance Provided</p>	<ul style="list-style-type: none"> • Project grants
<p>Contacts</p>	<p>Emergency Management Preparedness and Assistance Trust Fund Program Department of Community Affairs Division of Emergency Management 2555 Shumard Oak Boulevard Tallahassee, FL 32399-2100 (850) 413-9966 http://www.oppaga.state.fl.us/profiles/6001/</p>

Environmental Education Grant

Overview	The purpose of the Environmental Education Grant (EEG) is to provide financial support for projects which design, demonstrate or disseminate environmental education projects, methods, or techniques. Projects must focus on one of the following: (1) improving environmental education teaching skills; (2) education teachers, students, or the public about human health problems; (3) building State, local, or Tribal government capacity to develop environmental education programs; (4) educating communities through community-based organizations; or (5) educating general public through print, broadcast, or other media.
Eligibility	<ul style="list-style-type: none">• Local, Tribal, or State education agencies, colleges and universities, nonprofit organizations, State environmental agencies, and non-commercial education broadcasting agencies.
Assistance Provided	<ul style="list-style-type: none">• Project grants (up to \$25,000 regionally; \$25,000 to \$250,000 nationally)• Non-Federal government match of 25% required
Contacts	U.S. Environmental Protection Agency Office of Environmental Education (1701) Environmental Education Specialist 401 M Street, SW Washington, D.C. 20460 (202) 260-8619 http://www.epa.gov/enviroed/grants.html

Federal Highway Administration, Planning & Environment, Intermodal and Statewide Programs

<p>Overview</p>	<p>The intent of the Federal Highway Administration (FHA) Intermodal and Statewide Programs is the expeditious development and management of high quality feasibility studies with FHA funds. Within the context of Title 23 U.S.C. or in 23 CFR guidelines, the meaning of feasibility has the following parts:</p> <ol style="list-style-type: none"> 1. The degree to which a given alternative mode, management strategy, design or location is economically justified. 2. The degree to which such an alternative is considered preferable from an environmental or social perspective. 3. The degree to which eventual construction and operation of such an alternative can be financed and managed.
<p>Eligibility</p>	<ul style="list-style-type: none"> • Public or private, profit or nonprofit entities or individuals • Local government agencies • Universities, colleges, technical schools, institutes
<p>Assistance Provided</p>	<ul style="list-style-type: none"> • Project grants (cooperative agreements) • Matching funds may be required
<p>Contacts</p>	<p>Contact regional transportation office Headquarters: U.S. Department of Transportation Federal Highway Administration, ISTEA 400 7th Street, SW Washington, D.C. 20590 (202) 366-5004 http://www.fhwa.dot.gov/hep/index.htm</p>

Flood Mitigation Assistance Program

Overview	The Flood Mitigation Assistance program (FMAP) helps States and communities identify and implement measures to reduce or eliminate the long-term risk of flood damage to homes and other structures insurable under the National Flood Insurance Program (NFIP). Projects may include: (1) elevation, relocation, or demolition of insured structures; acquisition of insured structures and property; (2) dry flood proofing of insured structures; (3) minor, localized structural projects that are not fundable by State or other Federal programs (e.g., erosion-control and drainage improvements), and (4) beach nourishment activities such as planting of dune grass.
Eligibility	<ul style="list-style-type: none"> • State agencies, participating NFIP communities, or qualified local organizations. • Communities that have been suspended from the NFIP are not eligible.
Assistance Provided	<ul style="list-style-type: none"> • Planning grants to assist communities with the development of Flood Mitigation Plans (assessment of flood risk and identification of actions needed to reduce risk). • Project grants for the implementation of measures to reduce flood losses.
Contacts	<p>Local Federal Emergency Management office Headquarters: Federal Emergency Management Agency Mitigation Directorate 500 C. Street, SW Washington, D.C. 20472 (202) 646-4621 http://www.fema.gov/fima/planfma.shtm</p>

Florida Communities Trust (FCT)

Overview	This grant program facilitates the purchase of lands for conservation and/or recreation purposes by local governments. This land acquisition program helps to implement conservation, recreation, open space, and coastal elements of local comprehensive plans. The Board of Florida Communities Trust has latitude to consider innovative financing arrangements, loans, and land swaps. However, most of the Trust's funding is for land acquisition. Land acquisition projects in which matching funds are available will receive more favorable consideration, although a portion of available funds may be awarded on outright grants.
Eligibility	<ul style="list-style-type: none">• States and Indian Tribes
Assistance Provided	<ul style="list-style-type: none">• Individual grants are awarded based on requests.
Contacts	Florida Department of Community Affairs Florida Communities Trust 2555 Shumard Oaks Blvd. Tallahassee, FL 32399 (850) 922-2207 http://www.dca.state.fl.us/ffct/florida_forever.htm

Hazard Mitigation Grant Program

<p>Overview</p>	<p>This program helps States and communities implement long-term hazard mitigation measures following a major disaster declaration. The program’s objectives are to prevent or reduce the loss of life and property from natural hazards, to implement State or local Local Mitigation Strategies, to enable mitigation measures to be implemented during immediate recovery from a disaster, and to provide funding for previously identified mitigation measures that benefit the disaster area. Eligible projects include the elevation, relocation, acquisition, or demolition of structures that will reduce future losses and retrofiting of critical facilities. Examples of eligible projects include:</p> <ul style="list-style-type: none"> • Structural hazard control or protection such as storm water control facilities; • Retrofitting of critical facilities such as flood proofing or installation of hurricane shutters; • Property acquisition, relocation and elevation to protect structures from future damage; • Small scale drainage improvements to existing drainage facilities; and • Other small scale flood protection measures to critical facilities.
<p>Eligibility</p>	<ul style="list-style-type: none"> • State and local governments, certain private non-profit organizations or institutions, and Indian tribes or authorized Tribal organizations and Alaskan Native villages or organizations. • Project must be in a previously declared (by the President) disaster area.
<p>Assistance Provided</p>	<ul style="list-style-type: none"> • Project grants (match of funds or in-kind services required). FEMA can fund up to 75% of total eligible costs (50% if disaster was declared prior to June 10, 1993).
<p>Contacts</p>	<p>Federal Emergency Management Agency Mitigation Directorate 500 C. Street, SW Washington, D.C. 20472 (202) 646-4621 http://www.fema.gov/</p>

Hurricane Program

Overview	This program provides state and local assistance; property protection; hazard identification and evacuation studies; post storm analysis; training and exercises; and public awareness and education campaigns, and materials to support State and local activities. The intent is to significantly reduce the loss of life, property, economic disruption, and disaster assistance costs resulting from hurricanes.
Eligibility	<ul style="list-style-type: none">• Several states, including Florida.
Assistance Provided	<ul style="list-style-type: none">• Individual grants are awarded based on requests.• States are required to provide a 25% match.
Contacts	Federal Emergency Management Agency Mitigation Directorate 500 "C" Street, SW Washington, DC 20472 (202) 646-4621 http://www.fema.gov/mit/

Nonpoint Source Implementation Grants

<p>Overview</p>	<p>The 319 Program provides formula grants to the States to implement Nonpoint source projects and programs in accordance with Section 319 of the Clean Water Act. Examples of previously-funded projects include best management practices (BMPs) installation for animal waste; design and implementation of BMP systems for stream, lake, and estuary watersheds; basin-wide landowner education program; and lake projects previously funded under the CWA Section 314 Clean Lakes Program.</p>
<p>Eligibility</p>	<ul style="list-style-type: none"> • States and Indian Tribes
<p>Assistance Provided</p>	<ul style="list-style-type: none"> • Formula grants are awarded to a lead agency in each State. • States/local organizations are required to provide 40% of total project or program cost.
<p>Contacts</p>	<p>U.S. Environmental Protection Agency Office of Wetlands, Oceans and Watersheds Assessment and Watershed Protection Division Nonpoint Source Control Branch (4530F) 401 M Street, SW Washington, D.C. 20460 (202) 260-7100 http://www.epa.gov/owow/NPS</p>

Outdoor Recreation-Acquisition; Development and Planning (Land and Water Conservation Fund Grants)

Overview	This grant program provides financial assistance to the States and their political subdivisions for the preparation of Statewide Comprehensive Outdoor Recreation Plans (SCORPs) and acquisition and development of outdoor recreation areas and facilities for the general public, to meet current and future needs. Acquisition and development grants may be used for a wide range of outdoor recreation projects, such as picnic areas, inner city parks, campgrounds, tennis courts, boat launching ramps, bike trails, outdoor swimming pools, and support facilities such as roads, water supply, etc. Facilities must be open to the general public and not limited to special groups. Development of basic rather than elaborate facilities is favored. Fund monies are not available for the operation and maintenance of these facilities.
Eligibility	<ul style="list-style-type: none"> • States and Indian Tribes
Assistance Provided	<ul style="list-style-type: none"> • Individual grants are awarded based on requests.
Contacts	Department of the Interior Recreation Grants, National Park Service (2225) http://www.nps.gov/

Pollution Prevention Grants Program

Overview	This grant program provides project grants to States to implement pollution prevention projects. The grant program is focused on institutionalizing multimedia pollution (air, water, land) prevention as an environmental management priority, establishing prevention goals, providing direct technical assistance to businesses, conducting outreach, and collecting and analyzing data.
Eligibility	<ul style="list-style-type: none">• States and Indian Tribes
Assistance Provided	<ul style="list-style-type: none">• Individual grants are awarded based on requests.• States are required to provide at least 50 % of total project costs.
Contacts	U.S. Environmental Protection Agency Office of Pollution Prevention and Toxics Pollution Prevention Division (7409) 401 M Street, SW Washington, D.C. 20460 (202) 260-3480 http://www.cfd.gov/public/viewprog.asp?progid=844

Pre-Disaster Mitigation (PDM) Program

Overview	The purpose of Pre-Disaster Mitigation (PDM) Program is to assist communities to implement hazard mitigation programs designed to reduce overall risk to the population and structures before the next disaster occurs. Mitigation projects that primarily focus on natural hazards are eligible, but communities may also apply for mitigation of hazards caused by non-natural forces.
Eligibility	<ul style="list-style-type: none"> • Eligible applicants are State agencies; Federally recognized Indian Tribal governments, and local governments. Private non-profit organizations are not eligible, to apply; however, they may request a local government to submit an application for proposed activities on their behalf. • All applicants must be participants in the NFIP if they have been identified through the NFIP as having a Special Flood Hazard Area. In addition, the community must not be on probation, suspended or withdrawn from the NFIP. • Funding is only available to those communities that are participants in their respective county's Local Mitigation Strategy (LMS).
Assistance Provided	<ul style="list-style-type: none"> • Grants provided to assist communities to implement hazard mitigation programs to reduce overall risk to the population and structures before the next disaster occurs. • 25% State match is required
Contacts	Division of Emergency Management Bureau of Recovery & Mitigation 2555 Shumard Oak Boulevard Tallahassee, Florida 32399-2100 http://www.dca.state.fl.us/brm/

Public Assistance (PA)

Overview	This grant program provides supplemental assistance to States, local governments, and certain private nonprofit organizations to alleviate suffering and hardship resulting from major disasters or emergencies declared by the President. Grants can be used to clear debris; apply emergency protective measures to preserve life and property in response to the declared event; and repair or replace damaged structures, such as buildings, utilities, roads and bridges, water-control facilities and recreational facilities.
Eligibility	<ul style="list-style-type: none">• States, Indian Tribes, and local governments.• Also, eligible are private nonprofit organizations that operate educational, utility, emergency or medical facilities, provide custodial care or other essential services of a governmental nature to the general public.
Assistance Provided	<ul style="list-style-type: none">• Individual grants are awarded based on requests.• States are required to provide a 25% match.
Contacts	Federal Emergency Management Agency Infrastructure Support Division, Response and Recovery Directorate 500 "C" Street, SW Washington, DC 20472 (202) 646-3026 http://www.fema.gov

Special Economic Development and Adjustment Assistance Program-Sudden and Severe Economic Dislocation (SSED) and Long Term Economic Deterioration (LTED)

<p>Overview</p>	<p>The Economic Adjustment Program Grants assist State and local areas in the development and/or implementation of strategies designed to address structural economic adjustment problems resulting from sudden and severe economic dislocation such as plant closings, military base closures and defense contract cutbacks, and natural disasters (SSED), or from long-term economic deterioration in the area’s economy (LTED). Grants may be made to develop an Economic Adjustment Strategy Grant, or to implement such strategies. Implementation grants may be made for the construction of public facilities, business development and financing (including revolving loan funds), technical assistance, training or any other activity that addresses the economic adjustment problem.</p>
<p>Eligibility</p>	<ul style="list-style-type: none"> • States, cities, counties or other political subdivisions of a State, consortia of such political subdivisions, public or private nonprofit organizations representing redevelopment areas designated under the Public Works and Economic Development Act of 1965, Economic Development Districts established under Title IV of the Act, Indian Tribes. • Geographic areas, usually counties, or groups of counties, which meet either LTED and/or SSED eligibility criteria. • LTED eligibility determined by: (1) Very high unemployment; (2) low per capita income; and (3) chronic distress. For SSED eligibility, the economic dislocation must exceed certain job loss thresholds for the area.
<p>Assistance Provided</p>	<ul style="list-style-type: none"> • Project Grants
<p>Contacts</p>	<p>Department of Commerce Economic Adjustment Division, Economic Development Administration Room H7327, Herbert C. Hoover Building Washington, D.C. 20230 (202) 482-2659 http://www.doc.gov/eda/</p>

Transportation Equity Act for the 21st Century, Surface Transportation Program

<p>Overview</p>	<p>Surface Transportation Program (STP) funds may be used by State and local governments for any roads (including the National Highway System) that are not functionally classified as local or rural minor collectors. Each State sets aside 10% of STP funds for transportation enhancements, which can include water-related projects, such as wetland mitigation and implementation of control technologies to prevent polluted highway runoff from reaching surface water bodies. Other transportation enhancements include landscaping and other scenic beautification, pedestrian and bicycle trails, archaeological planning and research, preservation of abandoned railway corridors, historic preservation, sidewalk modifications to comply with Americans with Disabilities Act, natural habitat or wetland mitigation efforts, Intelligent Transportation System (ITS) capital improvements and environmental and pollution abatement projects.</p>
<p>Eligibility</p>	<ul style="list-style-type: none"> • Public or private, profit or nonprofit entities or individuals • Local government agencies • Universities, colleges, technical schools, institutes
<p>Assistance Provided</p>	<ul style="list-style-type: none"> • Project grants (cooperative agreements) • Matching funds may be required
<p>Contacts</p>	<p>Contact regional transportation office Headquarters: U.S. Department of Transportation Federal Highway Administration, ISTEA 400 7th Street, SW Washington, D.C. 20590 (202) 366-5004 http://www.fhwa.dot.gov/tea21/factsheets/stp.htm</p>

Water and Waste Disposal Loans and Grants

Overview	This program provides water and waste disposal facilities and services to low income rural communities whose residents face significant health risks. Funds may be used for 100% construction costs to construct, enlarge, extend, or otherwise improve a community water or sewer system; extend service lines and connect individual residences to a system. The program allows applicants to make grants directly to individuals to extend service lines, connect resident's plumbing to system, pay reasonable charges and fees for connecting to system, installation of plumbing and related fixtures, and construction in dwelling of a bathroom.
Eligibility	<ul style="list-style-type: none">• Local governments, Indian Tribes and nonprofit associations.
Assistance Provided	<ul style="list-style-type: none">• Individual grants are awarded based on requests.
Contacts	US Department of Agriculture Rural Utilities Service, Water Programs Room 2234, STOP 1570 1400 Independence Avenue, SW Washington, DC 20250 (202) 690-2670 http://www.usda.gov/

Water Pollution Control

Overview	<p>This program assists in the establishment and maintenance of adequate measures for prevention and control of surface and ground water pollution. The program provides broad support for the prevention and abatement of surface and ground water pollution from point and nonpoint sources including water quality planning, monitoring, water quality standards, assessments, permitting, pollution control studies, planning, surveillance and enforcement; advice and assistance to local agencies; training; and public information. Funds cannot be used for construction, operation, or maintenance of waste treatment plants, nor can they be used for s costs finance by other Federal grants.</p>
Eligibility	<ul style="list-style-type: none">• States, Indian Tribes and interstate agencies in establishing and maintaining adequate measures for prevention and control of surface and ground water pollution.
Assistance Provided	<ul style="list-style-type: none">• Individual grants are awarded based on requests.
Contacts	<p>U.S. Environmental Protection Agency Office of Pollution Prevention and Toxics Pollution Prevention Division (7409) 401 M Street, SW Washington, D.C. 20460 (202) 260-3480 http://www.epa.gov/</p>

Watershed Protection and Flood Prevention

<p>Overview</p>	<p>This program works through local government sponsors and helps participants solve natural resource and related economic problems on a watershed basis. Projects include watershed protection, flood prevention, erosion and sediment control, water supply, water quality, fish and wildlife habitat enhancement, wetlands creation and restoration, and public recreation in watersheds of 250,000 or fewer acres. Technical and financial assistance is available for installation of works of improvement to protect, develop, and utilize the land and water resources in small watersheds.</p>
<p>Eligibility</p>	<ul style="list-style-type: none"> • Local or State agency, county, municipality, town or township, soil and water conservation district, flood prevention or flood control district, Indian Tribe or Tribal organization, or nonprofit agency with authority to carry out, maintain, and operate watershed improvement works.
<p>Assistance Provided</p>	<ul style="list-style-type: none"> • Cost-sharing (funds cover 100% of flood prevention construction costs; 50% of construction costs related to agricultural water management, recreation and fish and wildlife; and none of the costs for other municipal and industrial water management). • Technical assistance and counseling.
<p>Contact</p>	<p>Local or State Natural Resources Conservation Service Headquarters: Department of Agriculture Natural Resources Conservation Service P.O. Box 2890 Washington, D.C. 20013 (202) 720-3527 http://www.usda.gov/</p>

APPENDIX G

LOCAL MITIGATION STRATEGY PLANNING PROCESS

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I. INTRODUCTION

At the core of the multi-jurisdictional mitigation planning process for Pasco County is coordination and partnership among the governmental units involved in the planning effort. In addition, the planning process relies upon the close involvement of public and private sector organizations. Examples include environmental organizations, Community Emergency Response Teams (CERT), insurance industry and relief organizations. The creation of the organizational structure was the first step in the development of the Local Mitigation Strategy (LMS). The second step was to ensure that the citizens of Pasco County were informed and educated about the LMS. The results were the establishment of effective and productive committees who oversaw the development of the LMS, with the public being given the opportunity to participate and contribute to its finalization.

II. HAZARD MITIGATION COMMITTEE (HMC)

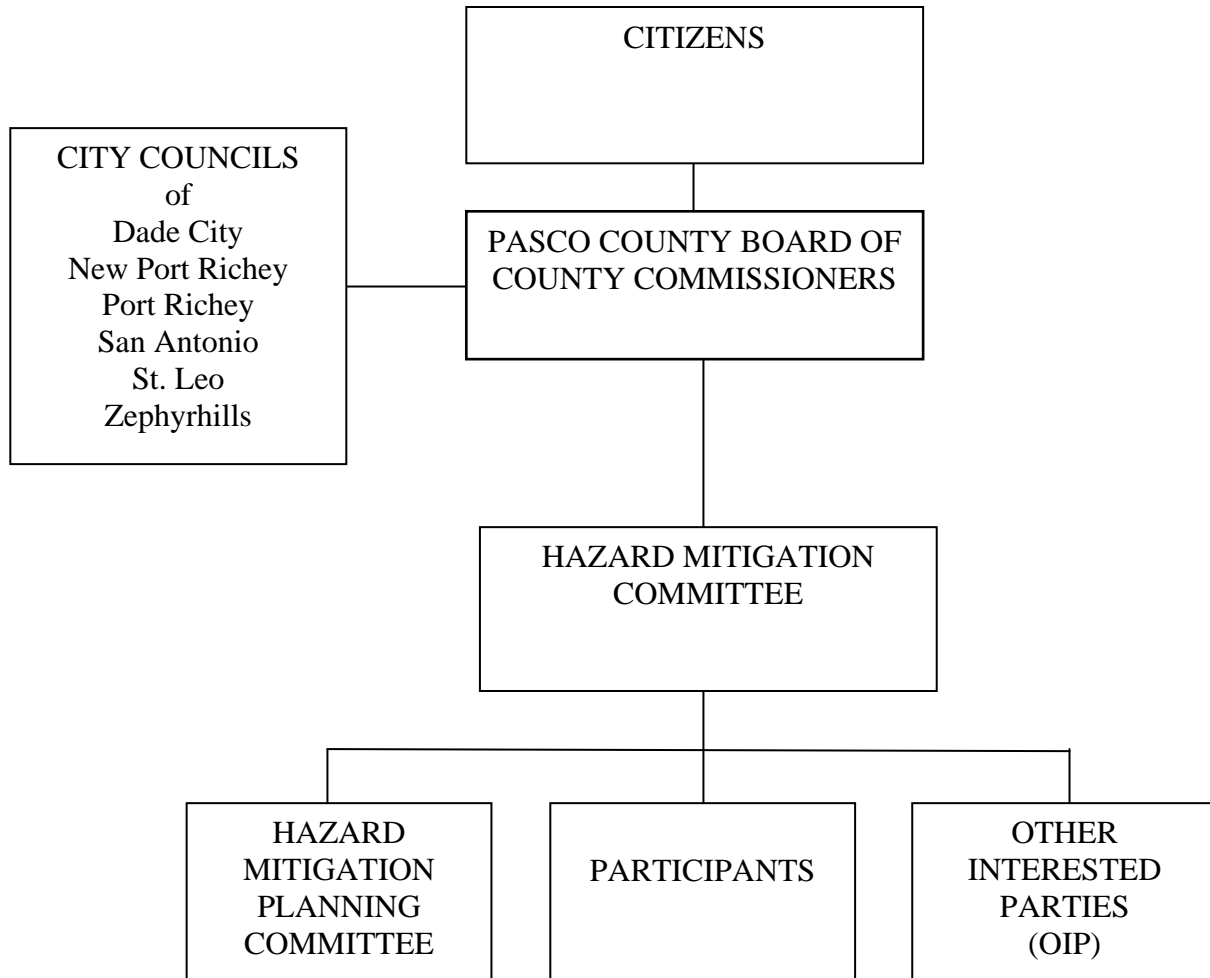
The overall Hazard Mitigation Committee (HMC) includes the Hazard Mitigation Planning Committee (HMPC), Participants, and Other Interested Parties (OIP). The Hazard Mitigation Committee develops the Local Mitigation Strategy (LMS) by establishing a planning schedule, establishing goals and objectives for the LMS, identifying the hazards threatening the Community, estimating the level of risk posed by those hazards, determining the vulnerability to the identified hazards, analyzing current mitigation policies and programs, identifying and justifying proposed mitigation “initiatives”, ensuring development of the LMS, and periodically reviewing and updating the LMS as necessary. The HMC will reconvene annually in January to review and amend (if deemed necessary) the LMS.

The organization chart in Figure 1 (next page) explains the relationship between Citizens, the Board of County Commissioners, City Councils, and Hazard Mitigation Committee. Attachment G-1 includes contact information, as well as documentation of submittals by Participants.

Through the involvement of the members of the Hazard Mitigation Planning Committee, Participants and Other Interested Parties, the Hazard Mitigation Committee (HMC) coordinated the development of the LMS with neighboring communities, local and regional agencies involved in hazard mitigation activities, agencies that have the authority to regulate development, businesses, academia and other private and non-private interests. These agencies and groups were invited and encouraged to actively participate in the planning process by becoming Committee Members. The representatives’ acceptance of the invitation and agreement to become Committee Members initiated their commitment to the effort. The representatives committed their time and available resources to develop a mitigation strategy that would protect life, property, and the environment, as well as contribute to the economic well being of the County.

Figure 1

Mitigation Planning Organization Chart



Each participating agency and group presented its programs, identified mitigation opportunities and subsequently had an opportunity to comment on preliminary and draft versions of the LMS. The HMC reviewed each agency's function and identified more opportunities, including some applicable to agencies not present. The HMC incorporated appropriate comments and distributed a final copy of the LMS to all participants.

A. HAZARD MITIGATION PLANNING COMMITTEE (HMPC)

The Hazard Mitigation Planning Committee (HMPC) includes the six municipal designated voting representatives (one each from New Port Richey, Port Richey, Dade City, St. Leo, Zephyrhills, and San Antonio), and two voting representatives from Pasco County. The HMPC has overall responsibility for reviewing and approving the Local Mitigation Strategy (LMS), as developed by the Hazard Mitigation Committee (HMC), and is responsible for the review and approval of any future amendments to the Strategy. The Pasco County Office of Emergency Management is responsible for coordinating and preparing the LMS. See Attachment G-1 for Hazard Mitigation Planning Committee (HMPC) members.

B. PARTICIPANTS

Participants are defined as those entities that would be eligible applicants for federal assistance in case of a disaster. This includes public agencies and private non-profits assigned responsibilities under the Comprehensive Emergency Management Strategy (CEMP). Participants also include Office of Emergency Management staff, and support staff from county and city departments, such as Community Development, Development Department, GIS/Survey, Growth Management/Zoning, Public Works, and Stormwater Management. See Attachment G-1 for a list of Participants.

C. OTHER INTERESTED PARTIES (OIP)

In order to ensure a cross-section of the community was involved in the development of the Local Mitigation Strategy (LMS), a designation of "Other Interested Parties" was established. Other Interested Parties (OIP) are citizens, businesses, contiguous counties, regional entities, etc. who may be affected by provisions in the Strategy. Other Interested Parties do not have any specific requirements for participation. All interested parties were encouraged to review and comment on the LMS and submit projects. See Attachment G-1 for a listing of Other Interested Parties participating in the planning process.

III. PLANNING APPROACH

The planning process included both a technical approach to the planning and an organizational methodology for incorporating mitigation initiatives into the Local Mitigation Strategy (LMS). The technical analysis process carried out by the Hazard Mitigation Committee (HMC) included:

- establishing a planning schedule;
- establishing goals and objectives for the LMS;
- identifying the hazards threatening the community;
- estimating the level of risk posed by those hazards;
- determining the vulnerability to the identified hazards;
- analyzing current mitigation policies and programs;
- identifying and justifying proposed mitigation “initiatives”;
- ensuring preparation of the LMS; and
- periodically reviewing and updating the LMS as necessary.

The organization used in this planning approach ensures participation from the local government jurisdictions and key organizations and institutions. The planning work conducted to develop the LMS relies on the expertise and authorities of the participating agencies and organizations, rather than strictly scientific or engineering studies. The HMC has confidence in the judgment of the participating individuals because of their role in the community, their use of readily available information and ability to achieve a level of detail in the analysis that is more than adequate for purposes of local mitigation planning. As the planning process continues, more detailed and costly scientific studies of the mitigation needs of the community are able to be defined as initiatives for incorporation into the LMS and implemented as resources become available to do so.

A. PLANNING SCHEDULE

The Hazard Mitigation Committee (HMC) initially established a planning schedule for the planning period that allowed the participants to anticipate their involvement in the technical analyses and evaluations they were asked to do. At the outset of the planning period, the HMC defined the goals that the planning process was attempting to achieve, as well as the specific objectives within each goal that would help to focus the planning efforts. Figure 2 demonstrates the timeline for development of the Local Mitigation Strategy.

**Figure 2
Proposed Timeline for LMS**

Deadlines	Deliverable	Participants
Phase I October 29, 2008	Describe Planning Process & Participants	All Members, Participants & Public
	Kick Off Meeting with Participants & Public & Neighboring Communities	
	Review existing goals and update	
Homework	Update the project list, submit any new projects. Cities to update demographics, housing stock/trends Due either before or at November meeting	Members and Participants
Phase II November 19, 2008	Project Ranking Training Session	All Members, Participants & Public
	Discussion/Justify project list.	Members & Participants
	Training on new ranking system for projects.	Emergency Management
	Emergency Management to send email with expended project list un-ranked to members and participants by 12/1/08.	Emergency Management
Homework	All projects (new and existing) will be ranked based on feasibility and benefit cost review using the STAPLE+E system for feasibility and benefit cost review.	Members and Participants NOTE: Internal meetings may be required to prioritize.
Phase III January 14, 2009	Approval of required annual update and finalization of project list for 2009 plan submittal	All Members, Participants and Public
	Finalize project list. Approve for annual update of plan.	Members and Participants
Homework	Review the intro, demographics, and hazard vulnerability sections of the plan for approval in February. Plan posted on Pasco Emergency Website for review and comment	
Phase IV February 25, 2009	Presentation of the plan to committee for members to approve prior to submission. Final review of project rankings. Approval of the committee to submit plan.	All Members, Participants and Public
Phase V April/May	Public Hearing and Comments	BCC and City Commissions
	Board Approvals to send to State	Emergency Management

B. HAZARD IDENTIFICATION AND RISK ESTIMATION

The Hazard Mitigation Committee (HMC) identified the natural, technological, and societal hazards that threaten all or portions of the community. Specific geographic areas subject to the impacts of the identified hazards were delineated, where possible. General information was used to estimate the relative risk of the various hazards as an additional method to focus analysis and planning efforts.

The HMC compared the estimated relative risks of the different hazards it identified to highlight which hazards should be of greatest concern during the mitigation planning process.

Depending on the participating jurisdiction, a variety of information resources regarding hazard identification and risk estimation was available. The planners representing the jurisdictions attempted to incorporate consideration of hazard specific maps, including floodplain delineation maps, whenever applicable. They also attempted to avail themselves of GIS-based analyses of hazard areas and the locations of critical facilities, infrastructure components and other properties located within the defined hazard areas.

Existing and updated local plans, regulations, and codes were reviewed. The review of the documents and the impact on mitigation initiatives was a factor in determining the current risk from individual hazards as demonstrated below in Figure 3 as a crosswalk of programmatic mitigation of plans and regulations. The mitigation measures were divided into six programmatic areas:

- (1) Preventative Measures - planning, zoning, open space preservation, building codes and enforcement, utility retrofits
- (2) Property Protection – Acquisition, Relocation, Elevation, Retrofit
- (3) Emergency Services Measures – Warning systems, shelters, safe rooms, monitoring systems, response planning, evacuation, critical facilities protection
- (4) Structural Projects – Seawalls, reservoirs, channel modification, storm water management facilities, drainage system maintenance
- (5) Natural Resource Protection – Wetland Protection, BMP, Erosion control, etc.
- (6) Public Information Programs.

PROGRAMMATIC MITIGATION CROSSWALK

- 1. Preventative Measures
- 2. Property Protection
- 3. Emergency Services Measures
- 4. Structural Projects
- 5. Natural Resource Protection
- 6. Public Information Programs

Local Government: Pasco County			
Source/ Document/Number/ Chapter/ Section	Text / Description	LMS Measures	Evaluation
Comprehensive Plan			
Chapter 3, Goal 1, Objective 1.1 Natural Resource Protection	Protect natural communities, including uplands and wetlands; connect natural linkages, conserve viable populations of native plants and animals; protect habitat for listed species; protect water resources and wetland systems; protect unique natural resources; enhance resource-based recreational opportunities, and expand environmental education opportunities.	1,5	1.Protects listed species, critical linkages, and wetlands. 2. Acquisition through the County's ELAMP resource-based recreational opportunities and education programs. 3. Coordinates mitigation opportunities with the appropriate State and Federal agencies. 4. Development incentives for clustering & preserving critical linkages and wetlands based on size, type/category, and quality. 5. Establishes conservation land use designations.
Chapter 3, Goal 1, Objective 1.1.4 Natural Resource Protection	Pasco County shall protect all existing lands designated as Conservation on the Future Land Use Map, all conservation lands listed in the Recreation and Open Space Element, and all properties acquired through the County's Environmental Lands Acquisition and Management Program that have not yet been designated as Conservation land use as required by Policy 1.1.3. Pasco County shall review proposed adjacent land developments for potential adverse impacts and shall ensure that:	1,5	1. Incompatible uses are directed away from wetlands. 2. Long term management (particularly prescribed fire) is not precluded by such adjacent development through the use of setbacks and buffers. 3. Exotic and nuisance vegetation are not allowed to encroach on the conservation lands. 4. The quality of the habitat within the conservation lands is not permitted to degrade by the adjacent use.

Chapter 3, Goal 1, Objective 1.2.2.2 Natural Resource Protection	To identify and protect corridors or linkages that maintain a contiguous network of wildlife habitat between existing public lands as identified in the 2002 Habitat Study, Assessment of Measures to Protect Wildlife Habitat in Pasco County, as critical linkages	1,5	Prohibits encroachment into all wetlands and/or the 100-year AE floodplain, with the exception of unavoidable & minimized roadway crossings. Requires that wetlands and/or floodplain be put into a conservation easement unless dedicated to and accepted by Pasco County, except for development sites which consist solely of wetlands and/or the 100-year AE floodplain and where the owner does not have ownership interest in any adjacent property that may be developed at one residential unit per 20 acres.
Chapter 3, Goal 1, Objective 1.4.1 Natural Resource Protection	Pasco County shall continue to purchase environmentally sensitive lands through the Environmental Lands Acquisition and Management Program	1,5	Protect natural communities, connects natural linkages, protects water resources & wetland systems, unique natural resources, enhance resource-based recreational opportunities and expand environmental education opportunities.
Chapter 4, Goal 2, Objective 2.1.6 Coastal Management	Require adherence to the location and building construction standards in the FI Building Code for proposed development within the Coastal High Hazard Area	1,2	Prevents damage and protect property through stronger building codes requiring wind resistant standards and elevation above BFE
Chapter 4, Goal 2, Objective 2.2.2 Coastal Management	Prohibit infrastructure to serve the private development within the Coastal High Hazard Area	1	Prevents public funds from being expended to support development in coastal areas.
Chapter 4, Goal 2, Objective 2.2.2 Coastal Management	Prohibit the siting of new or expansion of existing mobile home/recreation/RV parks in the CHHA	1	Reduces the potential for residential damage
Chapter 4, Goal 3, Objective 3.1 Coastal Management	Facilitate Hurricane Evacuation	3,6	1. Signage for evacuation, 2. Maintain adequate vehicle capacity on evacuation routes, 3. Encourages capital improvement expenditures for evacuation routes lacking adequate capacity, 4. Develops & maintains shelter capacity for population at risk in the HVZ for a Category 3 hurricane, 5. Requires participation in County exercises and public information seminars 6. Requires new residential units constructed in the

			HVZ to mitigate the cost of creating shelter space for the increased population.
Chapter 4, Goal 3, Objective 3.2 Coastal Management	Hazard Mitigation to reduce risks to human life and public and private property through implementation of hazard mitigation measures and post-disaster redevelopment	1,2,6	1. Informs residents of RLAs, 2. Requires mitigation of damaged structures, 3. Prioritizes immediate repair cleanup actions & permitting, 4. Sets temporary measures to reduce impacts, 5. Requires periodic updates to the CEMP, 6. Provides shoreline stabilization through the Flood Damage Prevention Ordinance and development review process.
Chapter 4, Goal 3, Objective 4 Coastal Management	Implement and enforce procedures for the preservation of historic, archeological, and cultural resources within the Coastal Planning Area of Pasco County	1,2,4	1. Inventory historic, archeological & cultural resources to protect them., 2. Requires land development applications address the occurrence or potential occurrence of these resources. 3. Prevents the destruction or alteration of these sites 4. Encourages the reuse of the sites in accordance with the land development code.
Chapter 6, Goal 3, Objective 3.1.1 Housing Element	Establish and review minimum housing codes	1	Pasco County shall evaluate and update the County's minimum housing code every five (5) years to ensure that housing-construction standards minimize damage caused by high wind, flooding, or sinkholes.
Chapter 6, Goal 3, Objective 3.1.2 Housing Element	Temporary and permanent relocation housing	2,3	Provide temporary or permanent relocation housing for households displaced by natural disasters and acts of local government.
Chapter 6, Goal 5, Objective 5.1.6 Housing Element	Income based housing establishment	1,6	Encourages the establishment of facilities for very-low, low-, moderate-income households; the elderly;

			and handicapped outside the CHHA.
Chapter 7, Goal 2, Objective 2.1.5 Transportation Element	Regional Evacuation Route Coordination	3	Coordinates with TBRPC regarding the evaluation of potential corridors for evacuation.
Chapter 8, Goal 4, Objective 4.3.3 Transportation Element	Coordination between School Board and Pasco County	3, 4, 6	1. Design and/or retrofit of public school as emergency shelters, 2. Enhancing of public awareness of evacuation zones, shelter locations, and evacuation routes, 3. Designation of sites other than public schools as long term shelters.
Chapter 10, Goal 5, Objective 5.1.4 Drainage & Groundwater Recharge	Design & construction of projects to the FDEP standards contained in Chapter 62-25, FAC and Pasco County Stormwater Management Practices Manual.	4	New shelters and habitable structures must accommodate a minimum 100+1 year storm event/24-hours peak duration. Finished floor elevation minimum 1 foot about 100-year flood elevation. Evacuation routes designed to accommodate a minimum 100-year storm event/24 hours duration.
Land Development Regulations			
Land Development Code Sec. 605.3	Stormwater Management Regulations	1	Limits discharge from new developments, regulates volume of stormwater discharge, protects & improves the quality of ground and surface water, Insures no more erosion after development than in predevelopment, maintains groundwater levels, protects wetlands for storage, prevents saltwater intrusion, prevents damages due to increased flooding, maintains natural levels of salinity in estuarine areas, minimize adversimpact to flora & fauna and adverse impacts to fish and wildlife, pre-development erosion control, on-site retention of run-off,
Floodplain Management/ Community Rating System/ Repetitive Loss Properties			
CRS Activity 320	Map Determinations	6	FIRMs are used for citizen information, reviewing a plan or permit of all developments

CRS Activity 330	Hurricane Guide and Expo	6	Development Review participates with flood insurance information, property protection measures, and information on NFIP, and the FIRM Map Modernization project.,
CRS Activity 350	Public Availability of Information	6	Pasco County Libraries maintains FIRMS floodway maps, flood insurance information, building protection measures, floodplain management information available to the public
CRS Activity 410	Map Modernization Project	1,6	By agreement with SWFMD the local flood hazard maps have been updated, the resulting maps are currently being reviewed for approval.
CRS Activity 420	Environmental Lands Acquisition & Management Program (ELAMP)	5	Department created to acquire lands and conservation easements in order to protect natural communities including uplands and wetlands, connect natural linkages, conserve viable populations of native plants and animals, protect habitat for listed species, protect water resources and wetland systems, protect unique natural resources, enhance resource-based recreational opportunities and expand environmental education opportunities.
CRS Activity 430	Higher Regulatory Standards	1	Ordinance 03-40 amended the Flood Damage Prevention Ordinance of the LDC consolidating the Flood Damage Prevention rules into 1 document, adopted the one-foot freeboard above the BFE, and set substantial improvement cumulatively over a one-year period. Protects floodplain storage capacity prohibiting fill being placed within the flood plain without compensation. P.C. has a Classification of 3/3 from the ISO as their Building Code Effectiveness Grading Schedule. All building permit applications are reviewed for compliance with the

			building code and floodplain management, including substantial improvement requirements. The County has four Certified Floodplain Managers on staff.
CRS Activity 450	Stormwater Management	1	Pasco County's Land Development Code was adopted by Ordinance 89-21 containing the Stormwater Management requirements for Pasco County. All developments regardless of size be evaluated and designed for a minimum 24-year storm.
CRS Activity 503	Repetitive Loss Area Mailing	6	All property owners in the RLA receive information annually concerning their risk, the availability of flood insurance, protective actions, and financial assistance programs.
CRS Activity 520	Acquisition and Relocation	2	As a result of the 2004 Hurricane Season, P.C. applied through the HMGP program to purchase 15 residence that experienced severe flooding, all contracts were approved, 6 homeowners ultimately declined, and 9 properties were acquired, structures demolished creating additional storage capacity.
CRS Activity 540	Drainage System Maintenance	4,5	P.C. Public Works Dept. has a Drainage Improvement Program to provide a summary of footage of storm culvers cleaned, drainage basins cleaned, culverts replaced and ditch maintenance. Each drainage basin is also numbered and has identification discs installed to demonstrate when the system was last cleaned. Plaques are installed on the basins to inform residents that the basins are storm drains that discharge in their lakes, streams and ponds to deter water quality violations. As of August 2008, 826,858 feet of ditches have been maintained, 36,504 ft of culverts have been replaced and/or installed,

			and 470,966 ft of culverts have been cleaned. Also 1,684 retention ponds have been maintained.
CRS Activity 610	Flood and Severe Weather Warning Program	6	Installation of automated weather stations, a shore and water based bouy system, Storm Sentry weather wire system, weather radio distribution program, Media Alert news subscription, County and Emergency Management websites are used to inform the public when the potential for flooding occurs. The County has increase shelter capacity to 30,000+ spaces, currently constructing a regional evacuation shelter, and annually trains Community Emergency Response Teams,
Emergency Management			
CEMP	Basic Emergency Operations Plan	3	Sets the required structure for response to any threat or actual event affecting Pasco County.
CEMP Coordinating Procedures	Tornado, Flood, HAZMAT, Hurricane, MCI, Cold Weather, Terrorism, Pandemic, and School Safety Procedures	3	Sets the response to watches, warnings, and actual occurrences to protect the public.
CEMP Recovery Procedures	Damage Assessment & Response Plan, Recovery Element, Temporary Housing Plan, Debris Management Plan, Re-Entry Procedures, Incoming Mutual Aid SOP	3	Post-Disaster Recovery structure and operations plans to mitigate the impact of hazard conditions .
National Weather Service	Storm Ready Program	3	Pasco County has been designated a Storm Ready County by the National Weather Service, Ruskin, FL. Thereby expediting the ability of the County to pre-warn the public.
Ordinances			
P.C. Ordinance 05-05	Permit for Fill	1	Requires a permit for placement of 5 or more cubic yards of fill material on a cumulative basis limiting the displacement of water.
P.C. Ordinance 05-29	Drainage Basins of Special Concern	1	Mitigates concerns related to various drainage basins within the county that have experienced stormwater flooding beyond the limits of the FEMA SFHA Floodplain, resulting in conditions harmful to the health, safety and welfare

			of the public.
P.C. Ordinance 01-25	Florida Building Code	1	Pasco County has adopted the 2004 Florida Building Code.
P.C. Ordinance 07-20	Amended Building Code	1	Incorporates current policies of the County, clarify elements of the permitting process, establish the Construction Board, clarify contractor licensing requirements, increase requirements for minimum housing and add a provision regarding manufactured homes.
P.C. Ordinance 89-21	Amended Land Development Code	1	Amended to contain Stormwater Management requirements. Requires an acceptable maintenance entity is provided, if not Pasco County.
P.C. Ordinance 98-153	Stormwater Practices Manual	1	Requiring lot drainage plans with each building permit application, as-built survey and building affidavit be submitted prior to CO.
P.C. Ordinance 02-16	Stream Dumping Regulations	1	Enhanced the enforcement capabilities for stream dumping.

C. VULNERABILITY ASSESSMENT

A methodical, qualitative examination of the vulnerabilities of important facilities, systems and neighborhoods to the impacts of future disasters was done. For the participating jurisdictions and organizations, this was done by the individuals most familiar with the facility, system or neighborhood through a guided, objective assessment process. (See III. E. for details regarding the Vulnerability Assessment.)

D. DEVELOPING HAZARD MITIGATION INITIATIVES

This process enabled the Hazard Mitigation Committee (HMC) to highlight the most significant vulnerabilities to assist in prioritizing subsequent efforts to formulate and characterize specific hazard mitigation initiatives to eliminate or minimize identified vulnerabilities. Once the highest priorities were defined, the HMC identified specific mitigation initiatives for the Local Mitigation Strategy (LMS) that would eliminate or minimize those vulnerabilities.

Each mitigation initiative proposed for incorporation into the LMS was formulated and submitted to the HMC for consideration by an agency, organization, business or individual that had responsibility for its implementation. This avoided the situation of proposing mitigation initiatives when it was unclear who would implement them and whether the authority to do so was actually available. (See Section V. for Development of Projects Implementing the Mitigation Strategy.) The Hazard Mitigation/Program Prioritization Worksheet (See III. Figure 4.) was used to document the justification for an initiative.

Once the mitigation initiative was completed by the agency or organization developing the proposed mitigation initiative, the initiative was submitted to the HMC for review and inter-jurisdictional coordination.

Upon approval, the initiative was added to the Projects List as an approved mitigation initiative. (See Section V. B. Mitigation Projects/Programs.)

E. APPROVAL OF THE CURRENT EDITION OF THE STRATEGY

At least annually (during January) or following a disaster, the Hazard Mitigation Committee (HMC) meets to review and update the Local Mitigation Strategy (LMS) as necessary. All members are asked to analyze the overall success and progress in implementing the LMS. The members review each goal and objective to determine their appropriateness with respect to changing situations in the County, as well as changes in policy, and to ensure they are addressing current and expected conditions. The HMC also reviews the risk assessment

and capabilities portion of the LMS to determine if this information needs to be updated or modified. Each strategy and the associated mitigation initiative(s) are reported on by the party responsible for its implementation. The report includes which implementation processes worked well, any difficulties encountered, how coordination efforts were proceeding, and which strategies or initiatives need to be revised or priorities changed. Costs of initiatives are updated during these meetings. Completed initiatives are moved to the completed project listing with actual implementation costs reported to track progress.

The HMC then creates a list of recommendations that suggests ways to bring the LMS current, and any enhancements that are to be made. The Pasco County Office of Emergency Management makes the necessary changes to the Strategy. The revised Strategy is submitted to the HMC for final approval no later than 3 months after the conclusion of the HMC meeting.

The State Hazard Mitigation Officer is notified of changes to the Strategy for review and coordination on an annual basis. If there are no revisions for 5 years after the Strategy (or update) is approved by FEMA, the State Hazard Mitigation Officer will be notified by the HMC as to why no revisions have been necessary for 5 consecutive years.

IV. PLANNING PROCESS FOR 2009 UPDATE

Members of the Hazard Mitigation Committee (HMC) were alerted in October 2008 by the Office of Emergency Management (OEM) of the need to update the Local Mitigation Strategy (LMS) to meet new mitigation planning criteria mandated by the Disaster Mitigation Act of 2000. Members of the Committee were requested to review and update the 2004 LMS and the project list for additions, changes, and determination of progress for projects underway and any completed projects.

At each meeting of the committee, the members, participants, and other interested parties were provided a disk containing the specific sections of the plan for their review and comment. Everyone was assigned homework to review the documents on the disk to determine if revisions were required based on changes in codes, ordinances, plans or hazard frequency or occurrence within the last five (5) years. Comments and changes were due for compilation roughly two to four weeks after the meeting. A programmatic review of existing and updated ordinances, plans, and studies (pgs G7-15) was conducted to determine the progress made in incorporating mitigation programs into regulations. The Committee determined that the funding source annex of the LMS did not require revision. An internet search of all previous potential program funding sources determined that those resources were still valid. During a review of the 2004 hazard analysis, a Participant notified the HMC that there is one structure in the County that meets the Federal definition of a dam, which was constructed in December 2005, and one structure considered a levee, which the County began using in June 2008. Therefore, the Committee added Dam/Levee failure as a hazard because both structures

were built after the 2004 LMS Update. Compiled comments and changes were then sent via email to all members, participants and other interested parties for their review before the next meeting. In addition, all updates were posted on the Office of Emergency Management website in order to allow the public and anyone unable to attend the meetings the opportunity to participate in the planning process. During the following meeting, comments and changes were addressed and approved. Members and participants also needed to complete the cost benefit analysis and STAPLEE forms for existing and new projects after the November meeting. All plan changes and updates were forwarded to the OEM by January 14, 2009 for compilation and redistribution by the end of the month.

The Office of Emergency Management (OEM) completed a review of the LMS using the new criteria and completed a required Crosswalk. The OEM believed that the Pasco County LMS was compliant with the new Federal criteria and submitted the Crosswalk to the Florida Division of Emergency Management (FDEM) for review.

A. OCTOBER 29, 2008 MEETING

On October 29, 2008, the Pasco County HMC (which included representatives of the jurisdictions included in the multi-jurisdictional Pasco County LMS) met to discuss required updates to the LMS (see Attachment G-1 for documentation of meeting attendance and Attachment G-2 for meeting documentation).

The HMC previously agreed to define “participants” as all “eligible applicants”. A list of Participants was developed and the Participants can be found in Attachment G-1. The HMC defined participation as attendance at 50% of the meetings held in a given year.

In order to meet the criteria requiring involvement of the community (citizens, businesses, and other interested parties) in the LMS update process, the HMC agreed that this group would collectively be known as Other Interested Parties (OIP). (See Attachment G-1 for listing of OIP participating in the LMS update process.) OIP are invited to attend all meetings, participate in discussions, and comment on all Strategy documents. OIP involvement requires reaching out to them, but does not require a minimum level of participation on their part. Members of the original Hazard Mitigation Advisory Committee, appointed by resolution to the original LMS process in 1998, formed the core group of OIP during this update. OEM developed a strategy to provide for public meetings, public advertisements, educational opportunities, and newspaper articles to encourage OIP involvement.

Participants were requested to submit the following information to the Office of Emergency Management (OEM) by November 19, 2008 for review by the HMC at the November meeting:

- Comments/changes to the LMS, version dated October 2003.

- Status updates to the projects currently on the list dated November 2000. Information should include source of funding received, date work initiated, percent of work completed and/or date work completed, and revised cost information.
- New projects for addition to the list. Projects must be on list in order to be eligible for funding. Therefore, all possible projects envisioned for at least the next two to five years should be identified. All new projects are to be submitted on the “LMS-Project/Program Prioritization Worksheet”.

B. NOVEMBER 19, 2008 MEETING

The next meeting of the HMC was held on November 19, 2008 (see Attachments G-1 and G-2 for attendees and meeting minutes). The HMC voted to approve the Goals and Objectives and Hazard Vulnerability Matrix. A training session was held on completing the Cost Benefit Review and the STAPLE-E documents required for all projects, both new and existing. The HMC also voted to submit the revised LMS to the State of Florida by March 2009 for review.

C. JANUARY 14, 2009 MEETING

A third meeting of the Hazard Mitigation Committee (HMC) was held on January 14, 2009 (see Attachments 1 and 2 for attendees and meeting minutes). A public notice was published to comply with criteria in the planning process that at least one public meeting be conducted during the drafting stage (see Attachment 3 for copies of all public meeting notices published during the 2009 LMS Update). The meeting served a dual purpose, as the required annual update as well as continuing work on the revised Local Mitigation Strategy. The minutes from the January 16, 2008 meeting were approved and the annual update package for FDEM will be prepared and submitted prior to January 31, 2009.

An overview was presented of the body of the proposed Local Mitigation Strategy (LMS) document. Several comments, corrections, and additions were directed to be made. The HMC agreed to review the document and return any additional comments by January 26, 2009. During the first week of February the proposed LMS and all appendices (with the exception of the Critical Facilities Maps) will be posted on the County’s Emergency Management website for review by the members, participants, and other interested parties. All comments from the review will be due to Emergency Management no later than February 10, 2009. The entire submission is scheduled for approval by the committee at the February 25th meeting.

D. FEBRUARY 25, 2009 MEETING

A fourth meeting of the Hazard Mitigation Committee (HMC) was held on February 25, 2009 (see Attachments 1 and 2 for attendees and meeting minutes). A public

meeting notice was published to comply with criteria in the planning process that at least one public meeting be conducted during the drafting stage (see Attachment 3 for copies of all public meeting notices published during the 2009 LMS Update process). One member of the business community attended this meeting. Since there were neither comments nor input received from the public prior to or at the meeting, there was no input from the public that could be considered in the meeting.

The HMC was asked for approval that the draft LMS (as corrected) for submission to the Florida Division of Emergency Management for review. This was due to the understanding that the State of Florida and FEMA required submission six months prior to the plan expiration date of August 29, 2009. To meet the deadline, it was necessary to get the update to the State by the end of February.

The Local Jurisdiction Representatives approved the motion to forward the plan to the Florida Division of Emergency Management for review based on the 2008 Local Mitigation Strategy criteria.

E. FUTURE UPDATES

The County is in the process of re-writing the Comprehensive Emergency Management Plan, the Comprehensive Plan, the Land Development Code, and reviewing all current ordinances. The Chairman and/or Vice-Chairman and several other members of the Hazard Mitigation Committee are participating in the review and update process of the documents and are committed to ensuring that the mitigation goals will be presented for inclusion where appropriate. Each of these documents will be completed and adopted in 2010. The annual update of the Local Mitigation Strategy will include any progress toward or modifications to these documents, as well as project updates.

ATTACHMENT 1

HAZARD MITIGATION COMMITTEES

The Hazard Mitigation Committees Report provides a list of the members of the umbrella Hazard Mitigation Committee (HMC), as well as the members of the Hazard Mitigation Planning Committee (HMPC), Participants and Other Interested Parties (OIP).

In addition, information is provided regarding the level of participation each member has made to the effort, including meeting attendance and other required/suggested actions and activities.

Attachment G-1
Hazard Mitigation Committees
Submittals and Participation Documentation

Participant Information	Submittals	Meetings	Comments
Committee: HMPC City of Dade City Velboom Ray Police Chief rvelboom@dadecityfl.com O: 352-521-1495 F:	Date Updated: 10/16/2008 LMS Comments: <input checked="" type="checkbox"/> Status Updates: <input checked="" type="checkbox"/> New Projects: <input checked="" type="checkbox"/>	Oct 29 2008 <input checked="" type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input checked="" type="checkbox"/> Feb 25 2009 <input checked="" type="checkbox"/>	Joe White
Committee: HMPC City of New Port Richey Engel Jerry Development Rev. Tec engelgm@cityofnewportrich O: 727-853-1044 F: 727-853-1043	Date Updated: 10/8/2008 LMS Comments: <input checked="" type="checkbox"/> Status Updates: <input checked="" type="checkbox"/> New Projects: <input checked="" type="checkbox"/>	Oct 29 2008 <input checked="" type="checkbox"/> Nov 19 2008 <input checked="" type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input checked="" type="checkbox"/>	
Committee: HMPC City of Port Richey Dresch Shirley City Clerk cityclerk@copr.net O: 727-816-1900 111 F: 727-816-1916	Date Updated: 10/16/2008 LMS Comments: <input checked="" type="checkbox"/> Status Updates: <input checked="" type="checkbox"/> New Projects: <input checked="" type="checkbox"/>	Oct 29 2008 <input checked="" type="checkbox"/> Nov 19 2008 <input checked="" type="checkbox"/> Jan 14 2009 <input checked="" type="checkbox"/> Feb 25 2009 <input checked="" type="checkbox"/>	
Committee: HMPC City of San Antonio Sessa Barbara City Clerk sanantonioflorida@embarqm O: 352-588-2127 F: 352-588-2135	Date Updated: 10/16/2008 LMS Comments: <input checked="" type="checkbox"/> Status Updates: <input checked="" type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input type="checkbox"/> Nov 19 2008 <input checked="" type="checkbox"/> Jan 14 2009 <input checked="" type="checkbox"/> Feb 25 2009 <input checked="" type="checkbox"/>	Amy Greif
Committee: HMPC City of Zephyrhills VandeBerg Todd H. Director of Developm vandeberg@ci.zephyrhills. O: 813-780-0006 F: 813-780-0005	Date Updated: 10/16/2008 LMS Comments: <input checked="" type="checkbox"/> Status Updates: <input checked="" type="checkbox"/> New Projects: <input checked="" type="checkbox"/>	Oct 29 2008 <input checked="" type="checkbox"/> Nov 19 2008 <input checked="" type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input checked="" type="checkbox"/>	Beverly Jones
Committee: HMPC PC Development Review Services Dept Jolly, P.E. Cynthia Development Director cjolly@pascocountyfl.net O: 727-847-8082 8439 F: 727-815-7000	Date Updated: 10/9/2008 LMS Comments: <input checked="" type="checkbox"/> Status Updates: <input checked="" type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input checked="" type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input checked="" type="checkbox"/> Feb 25 2009 <input checked="" type="checkbox"/>	

Attachment G-1
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Participant Information	Submittals	Meetings	Comments
Committee: HMPC Date Updated: 10/9/2008 PC Emergency Management Martin James Director jmartin@pascocountyfl.net O: 727-847-8137 F: 727-847-8004	LMS Comments: <input checked="" type="checkbox"/> Status Updates: <input checked="" type="checkbox"/> New Projects: <input checked="" type="checkbox"/>	Oct 29 2008 <input checked="" type="checkbox"/> Nov 19 2008 <input checked="" type="checkbox"/> Jan 14 2009 <input checked="" type="checkbox"/> Feb 25 2009 <input checked="" type="checkbox"/>	James Johnston
Committee: HMPC Date Updated: 10/16/2008 Town of St. Leo Miller Joan Town Clerk town.of.stleo@saintleo.ed O: 352-588-2622 F: 352-588-3010	LMS Comments: <input checked="" type="checkbox"/> Status Updates: <input checked="" type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input checked="" type="checkbox"/> Nov 19 2008 <input checked="" type="checkbox"/> Jan 14 2009 <input checked="" type="checkbox"/> Feb 25 2009 <input checked="" type="checkbox"/>	
Committee: Participant Date Updated: 10/16/2008 6th Circuit Court Clement Mark Court Emer. Coordina mclement@jud6.org O: 727-464-5265 F: 727-464-5365	LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input checked="" type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	
Committee: Participant Date Updated: 10/16/2008 American Medical Response Diaz Tom Director, Operations O: 813-996-7828 237 F: 813-885-5844	LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input checked="" type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	
Committee: Participant Date Updated: 10/16/2008 Area Agency on Aging of Pasco-Pinellas King Helen Deputy Director kingh@elderaffairs.org O: 727-570-9696 210 F: 727-570-5098	LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	
Committee: Participant Date Updated: 10/16/2008 B. Lopez Nursing Home Yackel Becky Administrator yackelr@fdva.state.fl.us O: 813-550-5000 F: 813-558-5021	LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	

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Submittals and Participation Documentation

Participant Information	Submittals	Meetings	Comments
Committee: Participant Catholic Charities Nolan Sister Pam pnolan@ccdosp.org O: 813-601-5859	Date Updated: 10/29/2008 LMS Comments: Status Updates: New Projects:	10/29/2008 <input type="checkbox"/> 11/19/2008 <input type="checkbox"/> 1/14/2009 <input type="checkbox"/> 2/25/2009 <input type="checkbox"/>	
Committee: Participant Civil Air Patrol, U.S. Air Force Au Lee Cooper Lieutenant pascocap@earthlink.net O:	Date Updated: 10/9/2008 LMS Comments: Status Updates: New Projects:	10/29/2008 <input type="checkbox"/> 11/19/2008 <input type="checkbox"/> 1/14/2009 <input type="checkbox"/> 2/25/2009 <input type="checkbox"/>	
Committee: Participant Clerk of the Circuit Court Rulison Barbara Administrative Svs. barbara.rulison@pascocler O: 727-847-8146	Date Updated: 10/16/2008 LMS Comments: Status Updates: New Projects:	10/29/2008 <input type="checkbox"/> 11/19/2008 <input type="checkbox"/> 1/14/2009 <input type="checkbox"/> 2/25/2009 <input type="checkbox"/>	
Committee: Participant Deaf Service Center of Pasco/Hernando Thomas Jeff Executive Director jthomasr@dscph.org O: 727-816-1314	Date Updated: 10/9/2008 LMS Comments: Status Updates: New Projects:	10/29/2008 <input type="checkbox"/> 11/19/2008 <input type="checkbox"/> 1/14/2009 <input type="checkbox"/> 2/25/2009 <input type="checkbox"/>	
Committee: Participant District School Board of Pasco Coun Boucher John Manager-Facility Ope jboucher@pasco.k12.fl.us O: 727-774-7961	Date Updated: 10/16/2008 LMS Comments: Status Updates: New Projects:	10/29/2008 <input checked="" type="checkbox"/> 11/19/2008 <input type="checkbox"/> 1/14/2009 <input checked="" type="checkbox"/> 2/25/2009 <input checked="" type="checkbox"/>	Trisha Penabade
Committee: Participant Gulfside Regional Hospice Ward Linda CEO linda.ward@gulfsideregion O: 727-845-5707	Date Updated: 10/16/2008 LMS Comments: Status Updates: New Projects:	10/29/2008 <input type="checkbox"/> 11/19/2008 <input type="checkbox"/> 1/14/2009 <input type="checkbox"/> 2/25/2009 <input type="checkbox"/>	

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Participant Information	Submittals	Meetings	Comments
Committee: Participant Date Updated: 12/3/2008 Harbor Behavioral Health Care Preslock Bill bill.preslock@baycare.org O: 727-816-9851 230 F: 727-841-4534	LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input checked="" type="checkbox"/> Nov 19 2008 <input checked="" type="checkbox"/> Jan 14 2009 <input checked="" type="checkbox"/> Feb 25 2009 <input checked="" type="checkbox"/>	
Committee: Participant Date Updated: 10/12/2008 Hernando-Pasco Hospice Johnson Jim Director of Developm jim.johnson@hphospice.net O: 727-863-7971 F: 727-868-9261	LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input checked="" type="checkbox"/> Nov 19 2008 <input checked="" type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	
Committee: Participant Date Updated: 10/16/2008 Medical Examiner's Office Pellan Bill Director wpellan@co.pinellas.fl.us O: 727-639-1326 F: 727-582-6820	LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	
Committee: Participant Date Updated: 10/8/2008 Pasco County Health Department Mason Andrea Pasco County Emergen andrea_mason@doh.state.fl O: 727-841-4425 1501 F: 727-816-1102	LMS Comments: <input checked="" type="checkbox"/> Status Updates: <input checked="" type="checkbox"/> New Projects: <input checked="" type="checkbox"/>	Oct 29 2008 <input type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input checked="" type="checkbox"/> Feb 25 2009 <input checked="" type="checkbox"/>	
Committee: Participant Date Updated: 10/9/2008 Pasco County Health Department Wydohs Michael Govt Ops Consultant michael_wydohs@dol.state. O: 727-861-5250 139 F:	LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input type="checkbox"/> Nov 19 2008 <input checked="" type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	
Committee: Participant Date Updated: 10/9/2008 Pasco County Mosquito Control District Moore Dennis Director dmoore@pascomosquito.org O: 727-376-4568 F: 727-376-4704	LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	

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Participant Information	Submittals	Meetings	Comments
Committee: Participant Date Updated: 10/16/2008 Pasco County Sheriff's Office Powers Tim Lt tpowers@pascosheriff.org O: 727-847-7777 F: 727-844-7731	LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input checked="" type="checkbox"/> Nov 19 2008 <input checked="" type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	Stacie Morrison
Committee: Participant Date Updated: 10/16/2008 Pasco-Hernando Community College Burdzinski Ken Vice President Busin burdzink@phcc.edu O: 727-816-3412 F: 727-816-3450	LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input checked="" type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	
Committee: Participant Date Updated: 10/9/2008 PC Community Development Romagnoli George Comm. Dev. Manager gromagnoli@pascocountyfl. O: 727-834-3445 F: 727-834-3450	LMS Comments: <input type="checkbox"/> Status Updates: <input checked="" type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input checked="" type="checkbox"/> Nov 19 2008 <input checked="" type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	Mick Bateson
Committee: Participant Date Updated: 10/9/2008 PC Environmental Lands Program Brown Rene Environmental Lands rbrown@pascocountyfl.net O: 727-834-3670 3670 F:	LMS Comments: <input checked="" type="checkbox"/> Status Updates: <input checked="" type="checkbox"/> New Projects: <input checked="" type="checkbox"/>	Oct 29 2008 <input checked="" type="checkbox"/> Nov 19 2008 <input checked="" type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input checked="" type="checkbox"/>	
Committee: Participant Date Updated: 10/9/2008 PC Fire Rescue Lopinto Anthony Director alopinto@pascocountyfl.net O: 813-929-1250 F: 813-929-1256	LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input checked="" type="checkbox"/> Feb 25 2009 <input checked="" type="checkbox"/>	Mike Gordon
Committee: Participant Date Updated: 10/16/2008 PC GIS Dumas Elee GIS Supervisor srobertson@pascocountyfl. O: 727-847-7042 F:	LMS Comments: <input type="checkbox"/> Status Updates: <input checked="" type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input checked="" type="checkbox"/> Nov 19 2008 <input checked="" type="checkbox"/> Jan 14 2009 <input checked="" type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	Suparna Robertson

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Participant Information	Submittals	Meetings	Comments
Committee: Participant Date Updated: 10/9/2008 PC Growth Management Steffey Sam Growth Management Ad ssteffey@pascocountyfl.ne O: 727-847-8140 8440 F: 727-847-8084	LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	
Committee: Participant Date Updated: 10/16/2008 PC Metropolitan Planning Organization Uden Doug Trans. Plan. Coord. duden@pascocountyfl.net O: 727-847-8140 8230 F: 727-847-8084	LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input checked="" type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	Manny Lajmiri
Committee: Participant Date Updated: 10/9/2008 PC Public Works Rydzik Tom Director trydzik@pascocountyfl.net O: 727-847-8143 F: 727-815-7011	LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	
Committee: Participant Date Updated: 10/9/2008 PC Stormwater Management Division Garrett Michael Division Engineer mgarrett@pascocountyfl.ne O: 727-834-3611 F: 727-847-8084	LMS Comments: <input checked="" type="checkbox"/> Status Updates: <input checked="" type="checkbox"/> New Projects: <input checked="" type="checkbox"/>	Oct 29 2008 <input checked="" type="checkbox"/> Nov 19 2008 <input checked="" type="checkbox"/> Jan 14 2009 <input checked="" type="checkbox"/> Feb 25 2009 <input checked="" type="checkbox"/>	
Committee: Participant Date Updated: 10/16/2008 PC Survey (DS) Singh Hardy County Surveyor hsingh@pascocountyfl.net O: 727-847-8014 8626 F: 727-815-7000	LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input checked="" type="checkbox"/> Nov 19 2008 <input checked="" type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	Superna Robertson
Committee: Participant Date Updated: 12/16/2008 PC Utilities Services Branch Hircock Jlim Environmental Compla jhircock@pascocountyfl.ne O: 727-847-8145 2188 F: 727-847-8083	LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input checked="" type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	

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Hazard Mitigation Committees
Submittals and Participation Documentation

Participant Information	Submittals	Meetings	Comments
Committee: Participant PC Zoning Department Gross Joe Asst.Zoning/Code Enf jgross@pascocountyfl.net O: 727-847-8132 F:	Date Updated: 10/16/2008 LMS Comments: <input type="checkbox"/> Status Updates: <input checked="" type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input checked="" type="checkbox"/> Feb 25 2009 <input checked="" type="checkbox"/>	Lee Millard
Committee: Participant Property Appraiser Barber Wade Chief Deputy Propert wbarber@pascogov.com O: 352-521-4488 F: 352-521-4411	Date Updated: 10/16/2008 LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	
Committee: Participant Public Defender's Office Livermore Dean Sr. Asst. Public Def dlivermo@wearethehope.org O: 727-847-8155 F: 727-847-8961	Date Updated: 10/8/2008 LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input checked="" type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	
Committee: Participant Saint Leo University Mezzanini Frank Vice President frank.mezzanini@saintleo. O: 352-588-8215 F: 352-588-8511	Date Updated: 10/9/2008 LMS Comments: <input checked="" type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input checked="" type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	
Committee: Participant Salvation Army - Pasco County Vierra Luis Captain Luis_Viera@uss.salvationa O: 727-815-8539 17 F: 727-815-1959	Date Updated: 10/16/2008 LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input checked="" type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	George Smelser, Major
Committee: Participant Southwest Florida Water Management Burke Maya Planner maya.burke@swfwmd.state.f O: 352-796-7211 4408 F:	Date Updated: 10/16/2008 LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input checked="" type="checkbox"/> Nov 19 2008 <input checked="" type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	

Attachment G-1
Hazard Mitigation Committees
Submittals and Participation Documentation

Participant Information	Submittals	Meetings	Comments
Committee: Participant State Attorney's Office Nelson Don Executive Director donnelson@co.pinellas.fl. O: 727-464-6221 F: 727-453-7196	Date Updated: 10/15/2008 LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input checked="" type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	Vance Arnett
Committee: Participant Stretcher Limo, Inc Smith Dennis Executive Director O: 727-845-4454 F: 727-841-7225	Date Updated: 10/16/2008 LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	
Committee: Participant Suncoast Harvest Food Bank, Inc. Fields Liz Director lfields@suncoastharvest.o O: 813-929-0200 F: 813-929-0707	Date Updated: 10/16/2008 LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input checked="" type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	
Committee: Participant Supervisor of Elections Hamilton Melba Deputy Supervisor mhamilton@pascovotes.com O: 352-521-4323 F: 352-521-4319	Date Updated: 10/9/2008 LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	
Committee: Participant Tampa Bay Regional Planning Council Johnson, AICP Betti Principal Planner betti@tbrpc.org O: 727-570-5151 39 F: 727-570-5118	Date Updated: 10/16/2008 LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input checked="" type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	
Committee: Participant Tampa Bay Water Brown Tommy Senior Contracts Man tbrown@tampabaywater.org O: 813-929-4527 F: 813-929-4578	Date Updated: 10/16/2008 LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input checked="" type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	

Attachment G-1
Hazard Mitigation Committees
Submittals and Participation Documentation

Participant Information	Submittals	Meetings	Comments
Committee: Participant Tax Collector Stearns Tom Assistant Tax Collec tomstearns@pascotaxes.com O: 352-521-4360 F: 727-847-8034	Date Updated: 10/16/2008 LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input checked="" type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	
Committee: Participant United Way of Pasco County Arnett Susan Executive Director SArnett@unitedwaypasco.or O: 727-845-3030 F: 727-845-3032	Date Updated: 10/16/2008 LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input checked="" type="checkbox"/> Nov 19 2008 <input checked="" type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	
Committee: Public-OIP American Red Cross Mcguire Janet PC Mgr. of Readiness mcguireja@usa.redcross.or O: 727-862-8685 F:	Date Updated: 10/16/2008 LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input checked="" type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	
Committee: Public-OIP Bob Larkin Construction Larkin Bob President blc5143@aol.com O: 352-567-5143 F: 727-841-4500	Date Updated: 10/16/2008 LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	
Committee: Public-OIP Central Pasco Chamber of Commerce Dunkley Kathy Executive Director office@centralpascochambe O: 813-996-5522 F: 813-996-1097	Date Updated: 10/16/2008 LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	
Committee: Public-OIP CERT Coe Steven CERT Member westpascocert@aol.com O: F:	Date Updated: 10/16/2008 LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	

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Hazard Mitigation Committees
Submittals and Participation Documentation

Participant Information	Submittals	Meetings	Comments
Committee: Public-OIP City of Dade City Poe William City Manager O: 352-521-1496	Date Updated: 10/16/2008 LMS Comments: Status Updates: New Projects:	Oct 29 2008 <input type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	
Committee: Public-OIP City of New Port Richey Stansbury John stansburyj@cityofnewportric O: 727-853-1050	Date Updated: 10/8/2008 LMS Comments: Status Updates: New Projects:	Oct 29 2008 <input checked="" type="checkbox"/> Nov 19 2008 <input checked="" type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	
Committee: Public-OIP City of New Port Richey Sutton Jeff Personnel Administra suttonj@cityofnewportric O: 727-853-1025 1025	Date Updated: 10/8/2008 LMS Comments: Status Updates: New Projects:	Oct 29 2008 <input type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	
Committee: Public-OIP City of Port Richey Reade Richard City Manager citymanager@copr.net O: 727-816-1900	Date Updated: 10/16/2008 LMS Comments: Status Updates: New Projects:	Oct 29 2008 <input type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	
Committee: Public-OIP City of Port Richey Rober Richard Mayor of Port Richey rrober@copr.net O: 727-816-1900	Date Updated: 10/16/2008 LMS Comments: Status Updates: New Projects:	Oct 29 2008 <input type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	
Committee: Public-OIP City of Zephyrhills McDuffie Cliff Mayor cmcduffie@ci.zephyrhills. O: 813-780-0000	Date Updated: 10/16/2008 LMS Comments: Status Updates: New Projects:	Oct 29 2008 <input type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	

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Hazard Mitigation Committees
Submittals and Participation Documentation

Participant Information	Submittals	Meetings	Comments
Committee: Public-OIP City of Zephyrhills Spina Steve City Manager sspina@ci.zephyrhills.fl. O: 813-780-0000 F: 813-780-0005	Date Updated: 10/16/2008 LMS Comments: Status Updates: New Projects:	10/16/2008 Oct 29 2008 Nov 19 2008 Jan 14 2009 Feb 25 2009	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Committee: Public-OIP Dade City Chamber of Commerce Beckwith Nita Executive Director info@dadecitychamber.org O: 352-567-3769 F: 352-567-3770	Date Updated: 10/16/2008 LMS Comments: Status Updates: New Projects:	10/16/2008 Oct 29 2008 Nov 19 2008 Jan 14 2009 Feb 25 2009	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Committee: Public-OIP Davita Bradsell Tom DaVERT Emergency Ope tom.bradsell@davita.com O: 727-992-1015 F: 866-587-0552	Date Updated: 11/6/2008 LMS Comments: Status Updates: New Projects:	11/6/2008 Oct 29 2008 Nov 19 2008 Jan 14 2009 Feb 25 2009	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
Committee: Public-OIP Dept. of Transportation Anderson Ron District Emergency C Ron.Anderson@DOT.State.fl O: 813-975-6248 F: 813-975-6278	Date Updated: 10/16/2008 LMS Comments: Status Updates: New Projects:	10/16/2008 Oct 29 2008 Nov 19 2008 Jan 14 2009 Feb 25 2009	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Committee: Public-OIP Division of Forestry Fogler Dave Forest Area Supervis foglerd@doacs.state.fl.us O: 352-523-5100 F: 352-523-5104	Date Updated: 10/8/2008 LMS Comments: Status Updates: New Projects:	10/8/2008 Oct 29 2008 Nov 19 2008 Jan 14 2009 Feb 25 2009	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Committee: Public-OIP Florida Dept. of Environmental Prot Watkins Sarah Environmental Specia O: 813-744-6100 F: 813-744-6084	Date Updated: 10/16/2008 LMS Comments: Status Updates: New Projects:	10/16/2008 Oct 29 2008 Nov 19 2008 Jan 14 2009 Feb 25 2009	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Attachment G-1
Hazard Mitigation Committees
Submittals and Participation Documentation

Participant Information	Submittals	Meetings	Comments
Committee: Public-OIP Date Updated: 10/13/2008 Hernando County Emergency Managemen Allen Angela Emergency Management angelaallen@hernandocount O: 352-754-4083 F: 352-754-4090	LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input checked="" type="checkbox"/> Nov 19 2008 <input checked="" type="checkbox"/> Jan 14 2009 <input checked="" type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	
Committee: Public-OIP Date Updated: 10/16/2008 Hillsborough County Emergency Manag Gispert Larry Director of Emer. Mn gispertl@hillsboroughcoun O: 813-276-2364 F: 813-272-6878	LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	
Committee: Public-OIP Date Updated: 10/16/2008 Lees Environmental Services, Inc. Lees Edward President lees.environmental@verizo O: 727-859-9565 F: 727-447-4332	LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	
Committee: Public-OIP Date Updated: 10/16/2008 Lennon Appraisers & Consultants, In Lennon Gordon President gflennon@aol.com O: 727-819-0100 F: 727-819-3377	LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	
Committee: Public-OIP Date Updated: 10/16/2008 Manatee County Emergency Managemen Feagans Laurie Chief laurie.feagans@co.manatee O: 941-749-3022 F: 941-741-3539	LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	
Committee: Public-OIP Date Updated: 10/16/2008 National Weather Service LaMarre Bryan MIC brian.lamarre@noaa.gov O: 813-645-4111 F: 813-641-2441	LMS Comments: <input checked="" type="checkbox"/> Status Updates: <input checked="" type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	

Attachment G-1
Hazard Mitigation Committees
Submittals and Participation Documentation

Participant Information	Submittals	Meetings	Comments
Committee: Public-OIP Date Updated: 10/1/2008 Pasco County Board of County Commissi Mariano Jack County Commissioner jmariano@pascocountyfl.ne O: 727-847-8100 F:	LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input checked="" type="checkbox"/> Feb 25 2009 <input checked="" type="checkbox"/>	
Committee: Public-OIP Date Updated: 10/16/2008 Pasco County Tourist Development Coun Keaton Eric Public Communication ekeaton@pascocountyfl.net O: 727-847-8246 8246 F:	LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input checked="" type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input checked="" type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	
Committee: Public-OIP Date Updated: 10/16/2008 Pasco Economic Development Council Stanley Mary Jane Executive Director mjstanley@pascoedc.com O: 813-996-4075 F: 813-929-9114	LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	
Committee: Public-OIP Date Updated: 10/9/2008 PC Communications Mehlrose Tom Communications Mgr. tmehlrose@pascocountyfl.n O: 727-847-8935 8935 F: 727-847-8973	LMS Comments: <input type="checkbox"/> Status Updates: <input checked="" type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input checked="" type="checkbox"/> Nov 19 2008 <input checked="" type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	Dennis Fodi representative.
Committee: Public-OIP Date Updated: 10/16/2008 PC Emergency Management Hale Lisa Coordinator I lhale@pascocountyfl.net O: 727-847-8137 8888 F: 727-847-8004	LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input checked="" type="checkbox"/> Nov 19 2008 <input checked="" type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	
Committee: Public-OIP Date Updated: 10/9/2008 PC Emergency Management Mueller Kalah Coordinator I kmueller@pascocountyfl.ne O: 727-847-8137 7963 F: 727-847-8004	LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input checked="" type="checkbox"/> Nov 19 2008 <input checked="" type="checkbox"/> Jan 14 2009 <input checked="" type="checkbox"/> Feb 25 2009 <input checked="" type="checkbox"/>	

Attachment G-1
Hazard Mitigation Committees
Submittals and Participation Documentation

Participant Information	Submittals	Meetings	Comments
Committee: Public-OIP Date Updated: 10/9/2008 PC Emergency Management Thomas Peg Coordinator II pthomas@pascocountyfl.net O: 727-847-8137 8343 F: 727-847-8004	LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input checked="" type="checkbox"/> Nov 19 2008 <input checked="" type="checkbox"/> Jan 14 2009 <input checked="" type="checkbox"/> Feb 25 2009 <input checked="" type="checkbox"/>	
Committee: Public-OIP Date Updated: 10/16/2008 Polk County Emergency Management McNally Pete Emerg Mgmt Director petemcnally@polk-county.n O: 863-519-7304 F: 863-534-0355	LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	
Committee: Public-OIP Date Updated: 1/14/2009 Regional Medical Center BP Baker Glen Dir Emergency Manage glen.baker@hcahealthcare. O: 727-869-5413 F:	LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input checked="" type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	
Committee: Public-OIP Date Updated: 10/16/2008 Roe Insurance Roe Greg President greg@roeins.com O: 727-753-1020 F: 727-753-1021	LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input checked="" type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	
Committee: Public-OIP Date Updated: 10/16/2008 Southwest Florida Water Management Morris Lisann Engineering Section lisann.morris@swfwmd.stat O: 800-423-1476 F: 352-754-6874	LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	
Committee: Public-OIP Date Updated: 10/16/2008 Suncoast Retreat Damiani Chris Administrator damianic@verizon.net O: F:	LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	

Attachment G-1
Hazard Mitigation Committees
Submittals and Participation Documentation

Participant Information	Submittals	Meetings	Comments
Committee: Public-OIP Date Updated: 10/16/2008 Verizon Florida Inc. Johnson Randy Specialist-Network E larry.r1.johnson@verizon. O: 727-562-1102 F: 727-562-9613	LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input checked="" type="checkbox"/> Nov 19 2008 <input checked="" type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input checked="" type="checkbox"/>	
Committee: Public-OIP Date Updated: 10/16/2008 West Pasco Chamber of Commerce Alpine Joe President jalpine@westpasco.com O: 727-842-7651 F: 727-848-0202	LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	
Committee: Public-OIP Date Updated: 10/16/2008 Zephyrhills Chamber of Commerce Slater Jan Executive Director chamber@zephyrhills.net O: 813-782-1913 F: 813-783-6060	LMS Comments: <input type="checkbox"/> Status Updates: <input type="checkbox"/> New Projects: <input type="checkbox"/>	Oct 29 2008 <input type="checkbox"/> Nov 19 2008 <input type="checkbox"/> Jan 14 2009 <input type="checkbox"/> Feb 25 2009 <input type="checkbox"/>	

Attachment 2
MEETING DOCUMENTAION



PASCO COUNTY, FLORIDA

Office of Emergency Management
Emergency Communications Center
7530 Little Road
New Port Richey, FL 34654

Dade City (352) 521-5137
Land O'Lakes (813) 996-7341
New Port Richey (727) 847-8137
Facsimile (727) 847-8004

9/23/2008

Dear:

You are receiving this email because you graciously served as a member of the Hazard Mitigation Planning Committee in 2008 to update Pasco County's Local Mitigation Strategy (LMS). The LMS is scheduled to be submitted to the State of Florida for renewal in May of 2009 and we need your assistance once again. If you are no longer the person responsible for this project for your agency, please forward this letter and enclosed information the correct person and notify us of the change. If you participated as a citizen/business representative and you cannot serve again, please call me as soon as possible. If you are the right person and you are willing to participate in the LMS renewal process, please confirm your contact information.

The Disaster Mitigation Act of 2000 (DMA2K) has significantly expanded the mitigation planning requirements imposed on both the state and local jurisdictions in order to maintain eligibility for federal mitigation funds. The Act requires each local jurisdiction to have either its own local mitigation plan or actively participate in the development and maintenance of multi-jurisdictional plans such as ours. The local plan must be compliant with the new federal mitigation planning criteria and receive Federal Emergency Management Agency (FEMA) approval by August 29, 2009. Successful completion and approval by FEMA will ensure that Pasco County, the municipalities, taxing districts, and non-profits remain eligible for federal mitigation assistance.

We will meet on October 29, 2008, at 1:30 p.m. in the Emergency Operations Center to discuss the submittal process. Once we have completed the process, all jurisdictions will need to have their council/board adopt the revised LMS.

Thank you for your participation in this important project. If you have any questions or require further information, please contact Peg Thomas or myself at pthomas@pascocountyfl.net or jmartin@pascocountyfl.net.

Sincerely,

James D. Martin
Director

JDM/PT

O:\Odpdata\WP\ LMS 2009\Update of LMS Committee



PASCO COUNTY, FLORIDA

Office of Emergency Management
Emergency Communications Center
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New Port Richey, FL 34654

Dade City (352) 521-5137
Land O'Lakes (813) 996-7341
New Port Richey (727) 847-8137
Facsimile (727) 847-8004

Local Mitigation Strategy
Hazard Mitigation Committee
Kick-Off Meeting
October 29, 2008, 1:30 p.m.

Agenda

Welcome and Introductions

Verify Public Notices Announcing Meeting

Short History of Local Mitigation Strategy Document

Members and Participants

Timeline for Updating the Local Mitigation Strategy

Overview of the Process and Responsibilities

Goals and Objectives

Homework Discussion

Other Business

Adjourn

**The next meeting of the Hazard Mitigation Committee will be at 1:30 p.m.,
November 19, 2008 in the Emergency Operations Center.**

**Hazard Mitigation Committee Meeting
As Corrected and Approved on 11/19/08
October 29, 2008
1:30 p.m.
Meeting Minutes**

Present

Members

Ray Velboom, City of Dade City
Jerry Engel, City of New Port Richey
Shirley Dresch, City of Port Richey
Joan Miller, Town of St. Leo
Beverly Jones, City of Zephyrhills
Cindy Jolly, Pasco County
Jim Martin, Pasco County

Participants and Public

Elizabeth Fields, Suncoast Harvest	Manny Lajmiri, MPO
Michael Garrett, PC Stormwater	George Smelser, Salvation Army
Jim Johnson, Hernando-Pasco Hospice	Eric Keaton, Public Communications
Betti Johnson, TBRPC	Tom Diaz, American Medical Response
Dean Livermore, Public Defender	Randy Johnson, Verizon Florida Inc
Frank Mezzanini, St. Leo University	Tom Mehlrose, PC Communications
Vance Arnett, State Attorney	Cecilia Patella, Hernando County EM
Tim Powers, PC Sheriff's Office	Susan Arnett, United Way of Pasco County
Bill Preslock, Harbors	Greg Roe, Roe Insurance
Mike Bateson, CDBG	John Stansbury, New Port Richey
Superna Robertson, Pasco County GIS	Kalah Mueller, PC Emergency Mgmt.
Peg Thomas, PC Emergency Mgmt.	Rene Brown Weisner, ELAMP

The Chairman, Jim Martin, opened the Hazard Mitigation Committee meeting by welcoming the attendees, followed by a Power Point presentation briefly explaining the Local Mitigation Strategy (LMS) objectives and the purpose of the meeting. Mr. Martin discussed the objective of the Hazard Mitigation Committee as being: "To make Pasco County a safer, more disaster resistant community."

Attendees were provided with a copy of the slideshow presentation, Agenda, Goals, Hazard Vulnerability Analysis, LMS Timeline, CD (Homework), and contact information for Hazard Mitigation Planning Committee (HMPC) Members and Participants. Those present were requested to take the time and correct any misprints or errors in their information that was summarized on the *HMPC Members and Participants Document*. Attendees were informed of the Public Notice posting of the meeting in the St. Petersburg Times, Tampa Tribune, the Pasco County Website, and additional postings on the doors of the main County Building at 7530 Little Road.

The Chairman then provided an overview of the LMS update process, committee member and participant responsibilities, a brief summary of the LMS history, and the process of gaining approval of the new LMS from the State of Florida, FEMA, and the BOCC/City Councils. The timeline for project completion was also discussed. It was noted that the scheduled meetings are expected to run no longer than 2 hours. The next scheduled meeting is November 19, 2008. The meeting scheduled on January 14, 2009 will also serve as the annual update meeting. Additional meetings are scheduled for February 25th and March 25th in 2009. Final FEMA approval is required by August 29, 2009. Several options were discussed on how to meet the scheduled timeline. The first option would be to submit individual sections of the plan as they are completed to the State and FEMA then receive City Council and BOCC approval. The second option would be to have the plan approved by the Councils and the Board and then submit it to the State and FEMA. The decision was made to go with the first option in order to save time and ensure we had a FEMA supported document to send to the Councils/BOCC.

Emergency Management planners will continue to accumulate information on certain items noted such as: Adoption; Local Hazard Mitigation Goals; Identification & Analysis of Mitigation Actions; Implementation of Mitigation Actions; and Incorporation of Goals Into Existing Planning Mechanisms. Committee members and participants will need to initially focus on: Multi-Jurisdictional Participation; Documentation of Planning Process; Identifying, Profiling, & Assessing Vulnerability Hazard; Monitoring, Evaluating & Updating the Plan; and Continued Public Involvement.

Goals, objectives, analysis and assessment and implementation mechanisms were discussed. Mr. Martin explained that goals are a consistent long-term vision for hazard reduction. Objectives for accomplishing the goals need to be specific and measurable. Analysis and Assessment must include the prioritizing of actions. Implementation Mechanisms should include revised ordinances, updated policies or procedures, and the mechanisms to “find dollars” to fund projects. The group discussed the “Goals” handout. We expect the end result to be *similar* to those referenced on the handout. There are currently 13 Goals listed. Mr. Martin stated that, “We need to put together documents and strategies to make this work.” Attendees were then requested to read the Goals (and make reference to the handout “Hazard Vulnerability Analysis”) to assess the accuracy and/or to make changes to the Goals. Attention was brought to two hazards, Tornadoes and Pandemic. These two will probably be escalated to a higher risk based on current conditions. The hazard vulnerability assessment (HVA) provided to the participants was from the previous plan and was to be used as a general guideline. Mr. Martin explained that the HVA is being updated and that a draft will be sent to all members before the November meeting.

The group discussed the first goal, “Protect the health, safety, and welfare of the public” as an example of reviewing the goals to determine if they remain accurate. All present determined that the goal remains valid. The Goal (#1) Objective #1.1 was addressed and assessed. Changes were made to the verbiage of the objective. The group also decided to flip the analysis and assessment and the implementation mechanisms columns. A question was raised concerning the format of the goals document, whether the committee had the ability to change the format. Research indicates that although there is no standard format, there is a preferred format, the State and FEMA are concerned that the information provided meets the minimum criteria in the crosswalk. Although the intent was to review all 13 goals at the meeting, due to

time constraints, it was suggested that Emergency Management redraft the goals in the approved format and provide a copy to the Committee for their review and comment prior to the next meeting. Mr. Martin indicated that Emergency Management would send out the revised format of the goals prior to the November meeting.

Emergency Management provided information on the assigned homework. The homework CD was explained and it was requested that members and participants provide an analysis of the goals and objectives. The cities were also requested to provide updated demographics for the LMS. The members and participants were requested to review the current projects and provide an update. It was also requested that updates be submitted electronically or on a disc, with the updated information in red. The disc also contained the forms for submitting new projects. The disc also contains an instruction sheet provided for completing all forms and information.

Mr. Martin summarized the meeting and asked if there were other concerns. The Southwest Florida Water Management District representative gave a presentation on the FEMA Map Modernization Project. Tampa Bay Regional Planning Council stated that the new SLOSH model run would be complete within two weeks, and that it will affect the coastal high hazard area delineation. Emergency Management reminded the group that any successfully completed project information is encouraged for inclusion in the plan, i.e. purchases of historic property, new program implementation, etc. We will be including the successful efforts of the county within the last five years, regardless if it was a prior project, a local initiative, grant or locally funded.

The meeting adjourned at 3:10 p.m. The next meeting will be November 19, 2008, at 1:30 p.m. at the Emergency Operations Center, 8744 Government Drive, New Port Richey, Fl 34654.



PASCO COUNTY, FLORIDA

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Emergency Communications Center
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New Port Richey, FL 34654

Dade City (352) 521-5137
Land O'Lakes (813) 996-7341
New Port Richey (727) 847-8137
Facsimile (727) 847-8004

Local Mitigation Strategy
Hazard Mitigation Committee
November 19, 2008, 1:30 p.m.

Agenda

Welcome and Introductions - Jim Martin

Verify Public Notices Announcing Meeting – Jim Martin

Approval of Minutes from October 29, 2008 Meeting – Jim Martin

Timeline Review – Jim Martin

Approval of Hazard Vulnerability Analysis – Kalah Mueller

Approval of Goals and Objectives – Kalah Mueller

Benefit Cost Review - Kalah Mueller

Homework Discussion – Kalah Mueller

Other Business – Jim Martin

Adjourn

**The next meeting of the Hazard Mitigation Committee will be at 1:30 p.m.,
January 14, 2009 in the Emergency Operations Center.**

**Hazard Mitigation Committee Meeting
November 19, 2008
1:30 p.m.
Meeting Minutes**

Present

Members

Jerry Engel, City of New Port Richey
Shirley Dresch, City of Port Richey
Joan Miller, Town of St. Leo
Beverly Jones, City of Zephyrhills
Barbara Sessa, City of San Antonio
Jim Martin, Pasco County

Participants and Public

Susan Arnett, United Way
Rene Weisner Brown, PC ELAMP
Suparna Robertson, PC GIS
Jim Johnson, Hernando-Pasco Hospice
Angie Allen, Hernando County EM
Stacie Morrison, PC Sheriff's Office
Michael Wydohs, Pasco County HD
Peg Thomas, PC Emergency Mgmt.

Tom Bradsell, Davita
Maya Burke, SWFMWD
Michael Garrett, PC Stormwater
Tom Mehlrose, PC Communications
Bill Preslock, The Harbors
John Stansbury, New Port Richey
Kalah Mueller, PC Emergency Mgmt.
Lisa Hale, PC Emergency Mgmt.

The Chairman, Jim Martin, opened the Hazard Mitigation Committee meeting by welcoming the attendees. This was followed by a request for new participants to introduce themselves and for members and participants to sign-in on the roster for today's meeting.

Attendees were informed of the posting of the meeting notice on the Pasco County Website. Since public notices are only required to be posted for the first meeting and any annual meetings the attendees were informed that this posting is sufficient to comply with Public Notice policies and regulations.

Jim Martin then announced that the next order of business was to make some changes to the meeting minutes of the October 29, 2008 meeting. Those minutes had been forwarded to participants and members by email. Changes to be made are as follows: change the "City of" St. Leo to the "Town of" St. Leo; add Susan Arnett representing the United Way of Pasco County; remove Cecilia, who was not here and replace her name with Teresa Hill who was here observing from Hernando County EM. The Chairman addressed the members for a motion to approve the corrected minutes. Members motioned an approval and seconded the motion. There were no objections. The motion was pronounced approved by the Chairman.

Chairman, Jim Martin then discussed the committee timeline beginning with the expected completion date of updates and changes to the projects list as being February, 2009. Reminding the attendees that since it's a lengthy process the completion date of February, 2009 is dependant on all participants and members completing their homework. Additionally he addressed the fact that the Goals and Objectives should have been completed at the last meeting, and an attempt will be made to finish the approval of those Goals and Objectives at today's meeting.

The attendees were then provided with a brief summary of the changes made to the HVA (Hazard Vulnerability Assessment). Changes were noted in yellow. The changes made to the HVA were the result of various information updates provided by the National Weather Service, the Department of Forestry, Southwest Florida Water Management District, Pasco County Fire/Rescue, and Pasco County Emergency Management. There were no questions on the data provided therefore the Chairman addressed the members for a motion to approve. Members motioned an approval and seconded the motion. There were no objections. The motion was pronounced approved by the Chairman.

The attendees were then informed of changes made to the display and formulation of the Goals and Objectives document. The 13 Goals were modified to 12 and displayed in a word format instead of as a table. Listed under each goal were the Objectives for meeting that Goal. Some Goals had changes made to their Objectives. These were displayed in red. The changes were the result of the homework completed by the committee. Each Goal and it's Objectives were addressed in sequential order beginning with Goal 1. Any changes, additions, or an as-is approval was voiced by the committee per Goal. The results are as follows:

- **Goal 1** No changes, approved
 - Obj. 1 No changes, approved
 - Obj. 2 No changes (new Objective), approved
 - Obj. 3 No changes (new Objective), approved
- **Goal 2** No changes, approved
 - Obj. 1 No changes, approved
 - Obj. 2 No changes (new Objective), approved
 - Obj. 3 No changes (new Objective), approved
 - Obj. 4 No changes (new Objective), approved
- **Goal 3** No changes, approved
 - Obj. 1 No changes, approved
 - Obj. 2 No changes, approved
 - Obj. 3 No changes, approved
 - Obj. 4 No changes, approved
- **Goal 4** No changes, approved
 - Obj. 1 No changes, approved
- **Goal 5** No changes, approved
 - Obj. 1 No changes, approved
 - Obj. 2 No changes, approved
 - Obj. 3 No changes, approved
 - Obj. 4 No changes (new Objective), approved

- **Goal 6** No changes
 - Obj. 1 Change requested – “Partner with State” instead of “Participate with State”
Change requested – add “and other agencies”
Changes approved
 - Obj. 2 Change requested – change to “protect and restore wetlands and critical upland habitat”
Changes approved
 - Obj. 3 No changes, approved
 - Obj. 4 No changes, approved
 - Obj. 5 Change requested – change to “preserve and encourage the planting of”
Changes approved
- **Goal 7** No changes, approved
 - Obj. 1 No changes, approved
- **Goal 8** No changes, approved
 - Obj. 1 Change requested – change to “to regulate management”
Changes approved
 - Obj. 2 No changes, approved
 - Obj. 3 No changes, approved
- **Goal 9** No changes, approved
 - Obj. 1 Change requested – change to “identify and address”
Changes approved
- **Goal 10** No changes, approved
 - Obj. 1 No changes, approved
 - Obj. 2 No changes, approved
 - Obj. 3 Changes requested – change to “for critical infrastructure”
Changes approved
- **Goal 11** No changes, approved
 - Obj. 1 No changes, approved
- **Goal 12** No changes, approved
 - Obj. 1 No changes, approved

The Chairman then requested a motion to approve the “Goals and Objectives” as modified. Members motioned an approval and seconded the motion. There were no objections. The motion was pronounced approved by the Chairman.

The attendees were next informed of the new guidelines of the BCR (Benefit Cost Review) process. Attention was brought to the fact that no other agencies have implemented these guidelines or have had them approved by State and FEMA. Therefore, not only are we instituting a new process but in all practical purposes we’re setting the mark on implementing these guidelines in our strategy.

The forms involved in the BCR process were reviewed by the attendees. Completed examples of all forms were provided for their understanding of the process and the information needed to complete the forms correctly. Attendees were requested to use the resources provided to assist in the completion of the necessary forms. Resources included tapping the knowledge of the

OEM (Office of Emergency Management) LMS staff who have extensively studied this process.

Additional explanation was given to the STAPLEE (Social, Technical, Administrative, Political, Legal, Economic, Environmental) form. Questions from the attendees were addressed by the Emergency Management staff to ensure better understanding of the form and a completed example form was also displayed for reference.

Emergency Management provided information on the assigned homework. The attendees were instructed to go through their active project list and for each project that they're responsible for they were requested to fill out a STAPLEE form. Additionally they were asked to complete all 4 forms including the STAPLEE for any New Projects. The attendees were then reminded that the OEM staff is available to assist them, or answer any questions that they may have while completing this homework assignment. The subject was opened up for questions, of which there were none.

The Chairman then addressed the attendees regarding the email correspondence of the last couple of weeks involving the numerous changes made to the Goals and Objectives, HVA, and the Forms. His concern was that all the changed documents may be causing some confusion on which ones were the current versions. A decision was made, by consensus, for the OEM staff to email the revised versions with today's date so that everyone would have the most current versions.

Mr. Martin summarized the meeting and asked if there were other concerns. As there were none, the meeting was adjourned.

The meeting adjourned at 2:45 p.m.

The next meeting will be the Annual Meeting on January 14, 2009 at 1:30 p.m. at the Emergency Operations Center, 8744 Government Drive, New Port Richey, FL 34654.



PASCO COUNTY, FLORIDA

Office of Emergency Management
Emergency Communications Center
7530 Little Road
New Port Richey, FL 34654

Dade City (352) 521-5137
Land O'Lakes (813) 996-7341
New Port Richey (727) 847-8137
Facsimile (727) 847-8004

Local Mitigation Strategy
Hazard Mitigation Committee
January 14, 2009, 1:30 p.m.

Agenda

Welcome and Introductions - Jim Martin

Verify Public Notices Announcing Meeting – Jim Martin

Approval of Minutes from 2008 Annual Meeting – Jim Martin

Approval of Minutes from November 19, 2008 Meeting – Jim Martin

Project Updates – Kalah Mueller

STAPLEE / Benefit Cost Review Due – Kalah Mueller

Expectations for Feb 25th meeting – Kalah Mueller

Other Business – Jim Martin

Adjourn

**The next meeting of the Hazard Mitigation Committee will be at 1:30 p.m.,
February 25, 2009 in the Emergency Operations Center.**

**Annual Hazard Mitigation Committee Meeting
And
2009 Hazard Mitigation Committee Meeting
January 14, 2009
1:30 p.m.
Meeting Minutes**

Present

Members

Shirley Dresch, City of Port Richey
Joan Miller, Town of St. Leo
Beverly Jones, City of Zephyrhills
Jim Martin, Pasco County
Cindy Jolly, Pasco County
James E. Walters, for Ray Velboom, Dade City

Participants and Public

Angela Allen, Hernando County EM	Eric Keaton, P.C. Tourist Dvlp.
Glen Baker, RMC Bayonet Point	Anthony Lopinto, P.C. Emer. Svcs.
Tom Bradsell, Davita	Jack Mariano, P.C. BCC
John Boucher, DSBPC	Andrea Mason, P.C. Health Dept
Ken Burdzinski, PHCC	Janet McGuire, American Red Cross
Mark Clement, 6 th Circuit Court	Lee Millard, P.C. Zoning/Code Comp
Elee Dumas, P.C. GIS	Trish Penabade, DSBPC
Mike Garrett, P.C. Stormwater Mgmt.	Joseph White, City of Dade City
Jim Hircock, P.C. Utilities Branch	Peg Thomas, P.C. Emergency Mgmt.
Kalah Mueller, P.C. Emergency Management	

The Chairman, Jim Martin, opened the Hazard Mitigation Committee meeting by welcoming the attendees. This was followed by a request for members and participants to sign-in on the roster for today's meeting.

The first order of business addressed by Jim Martin was to request approval of the minutes of the last yearly meeting held January 16, 2008. Minutes from the January 16, 2008 meeting and November 19, 2008 meeting had previously been sent to members and participants via email. A copy of the meeting minutes were provided to those attendees who requested them during the meeting. The Chairman requested a motion to approve the minutes. Members motioned for approval and seconded the motion. There were no objections. The motion was pronounced carried and approved by the Chairman. The Chairman then called for an approval of the minutes of the last meeting held on November 19, 2008. Copies of the November meeting minutes were also provided to those attendees who requested them. The Chairman requested a motion to approve the minutes. Members motioned for approval and seconded the motion. There were no objections. The motion was pronounced carried and approved by the Chairman.

The Chairman then explained some of the matters to be addressed by the committee at today's meeting. This included the timeline and process of submitting the new LMS to FEMA and State for final approval by August, 2009.

Attendees were informed of the Public Notice posting of the meeting in the St. Petersburg Times, Tampa Tribune, the Pasco County Website, and additional postings on the doors of the main County Building at 7530 Little Road, complying with Public Notice policies and regulations.

The floor was then turned over to Emergency Management for a review of homework assigned at the last meeting. This included a request to attendees that if they had recently received a communication requesting their "Project Updates", that those updates should be submitted as soon as possible. Additionally, attendees were reminded to submit any New Projects promptly in order for Emergency Management to get them on the list and out to the committee for approval sometime within the next week.

The next agenda item addressed was an explanation of what the committee was to expect at the next meeting scheduled to be held on February 25, 2009. Attendees were given a disc containing the "meat" of the LMS. Members were informed that the LMS is now over 80% complete and were advised that the document on the disc that they were provided with today is 112 pages in length. Any suggested changes or corrections are to be sent to Emergency Management by e-mail. An e-mail address was provided for their use, and members were reminded of the need for feedback as soon as possible so that the corrections can be made prior to the next meeting in February. Attendees were also informed that all sections of the LMS would be available on the Emergency Management website for comment during the first week of February.

The attendees were then reminded that the OEM staff is available to assist them, or answer any questions that they may have while completing this homework assignment. The floor was opened up for questions, of which there were none.

Emergency Management then provided a visual on the projection screen of the current LMS document. To facilitate the committee's review of the document contained on the homework CD and to give an idea of how the product is organized, random sections were described by Emergency Management. The committee was informed that any and all changes to the LMS are recorded for future reference on the Record of Document Review/Revisions page in the LMS.

Addressed during this part of the meeting was the incomplete STAPLEE/Benefit Cost Review section. This section is incomplete at this time because all STAPLEES were due back today from the committee. Additionally, Appendix G is incomplete because it is a record of meeting minutes and today's meeting minutes will be added after adjournment.

While reviewing the Hazard Analysis section of the LMS, an attendee noted that the Dam/Levee Failure section was incorrect. Currently, it is listed that Pasco County has no dams or levees, when Pasco County has one dam. Michael Garrett, Pasco County Stormwater, has

information on the dam and the assessment of consequences should it fail. Mr. Garrett stated that he would forward the information to Emergency Management for inclusion in the LMS.

Another question was voiced regarding CF Industries (Northern Hillsborough County) and whether on-site storage poses a threat to Pasco County. The Chairman indicated that he did not think so, but would have someone from OEM find out the answer.

Some of the sections reviewed were done so because they are new additions to the LMS as required by FEMA. Of these are: a "What If?" Section for each hazard; a "What If?" Section for each hazard's effect on Critical Facilities; a Progress Section for a record of the progress on the goals set in the LMS meetings; and a Section to provide explanations on why the progress of project hasn't changed, or in other words, why the project is stagnant.

The City committee members were asked to confirm the accuracy the material in the Section outlining "who's responsible for what?" in their respective Cities, and to make sure that what is listed is still accurate. All committee members were asked to check the accuracy of the placement order of their projects and programs. All were reminded that implementation status and updates or changes to projects/programs are to be submitted yearly for correction to the LMS, during the January meeting, between the 5 year updates.

A question was voiced by one of the attendees regarding the date of completion listed as 2011 on the Hurricane Shelter project. The Chairman replied that the actual projected completion date is early to mid 2010.

Attendees were asked to provide Emergency Management with any information on projects that they might be working on that involve restoring historical sites.

A question was asked by one of the attendees regarding the County's power companies and if they produce fly-ash bi-products would there be an impact on our water supply? The Chairman answered that he would have that looked into by an OEM staff member.

The Chairman, Jim Martin, then reiterated the importance of the committee reviewing the homework CD and submitting their comments/changes as soon as possible. Committee responses are to be received by 1/26/2009 so the LMS can be electronically placed on the Pasco County website for public viewing. Approval of the final draft will be put for a vote during the February 25, 2009 meeting. Pending committee approval, the LMS will then be sent through the State of Florida to FEMA for review in March, 2009. After receiving approval from the State of Florida and FEMA, the document will then be sent to the BOCC and City Commissions for their support of the document in order to meet the August, 2009 deadline for approval.

Mr. Martin summarized the meeting and reminded attendees that this meeting was a dual meeting, combining a working LMS drafting meeting and the required Annual January meeting. Pieces of this meeting will be submitted to FEMA for the Annual January, 2009 update requirement. Attendees will receive a copy of the meeting minutes electronically by

January 31, 2009. Attendees were asked for questions or comments and, as there were none, the meeting was adjourned.

The meeting adjourned at 2:20 p.m. The next meeting will be on February 25, 2009 at 1:30 p.m. at the Emergency Operations Center, 8744 Government Drive, New Port Richey, FL 34654.



PASCO COUNTY, FLORIDA

Office of Emergency Management
Emergency Communications Center
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New Port Richey, FL 34654

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New Port Richey (727) 847-8137
Facsimile (727) 847-8004

Local Mitigation Strategy
Hazard Mitigation Committee
February 25, 2009, 1:30 p.m.

Agenda

Welcome and Introductions – Cindy Jolly

Verify Public Notices Announcing Meeting – Cindy Jolly

Approval of Minutes from January 14, 2009 Meeting – Cindy Jolly

Review of Comments Received – Kalah Mueller

Review of Project Ranking – Kalah Mueller

Review of Completed Crosswalk – Kalah Mueller

Call for Approval to submit LMS for review – Cindy Jolly

Other Business – Cindy Jolly

Adjourn

Plan for an on call meeting in June to receive comments from the Florida Division of Emergency Management and the Federal Emergency Management Agency.

The next regularly scheduled meeting of the Hazard Mitigation Committee will be at 1:30 p.m., January 15, 2010 in the Emergency Operations Center.

Hazard Mitigation Committee Meeting
February 25, 2009
1:30 p.m.
Meeting Minutes

Present

Members

Shirley Dresch, City of Port Richey
Joan Miller, Town of St. Leo
Beverly Jones, City of Zephyrhills proxy for Todd Vandeburg
James Johnston, Pasco County proxy for Jim Martin
Cindy Jolly, Pasco County
Joseph White, proxy for Ray Velboom, Dade City
Amy Greif, proxy for Barbara Sessa

Participants and Public

Trisha Penabade, District School Board of Pasco County
Rene Brown, Environmental Lands Acquisition & Management Program
Michael Garrett, Pasco County Stormwater Management Division
Randy Johnson, Verizon Florida, Inc.
Mike Gordon, Pasco County Fire Rescue
Jack Mariano, Pasco County Board of County Commissioners
Andrea Mason, Pasco County Health Department
Carol Cummins, Pasco County Health Department
Bill Preslock, Baycare, Inc.
Lee Millard, Pasco County Zoning/Code Compliance

The Vice-Chairman, Cindy Jolly, opened the Hazard Mitigation Committee meeting by welcoming the attendees. Several members were unable to attend and appointed proxies to attend the meeting. Therefore, all present were requested to introduce themselves. Attendees were informed of the Public Notice posting of the meeting in the St. Petersburg Times, Tampa Tribune, the Pasco County Website, and additional postings on the doors of the main County Building at 7530 Little Road, complying with Public Notice policies and regulations.

The first order of business addressed by Cindy Jolly was to request approval of the minutes of the last meeting held January 14, 2009. A correction was made to the participants list, as Bill Preslock was omitted from the minutes, as an attendee. The minutes were approved as corrected. The motion was pronounced carried and approved by the Vice Chairman.

Emergency Management stated that prior to the meeting only two comments were received concerning the content of the proposed Local Mitigation Strategy. Those comments were minor word changes. The member from New Port Richey inquired about the Evacuation Zone Map (B-1). The corrected map was presented to the members for review and comment. No comments were made. A motion was made and seconded to include the corrected map with the submission to the state. Motion passed unanimously. An indepth review of the project

rankings was undertaken, several projects have been completed this month and will be removed from the active project list and transferred to the completed project list. The project list was approved as corrected.

The plan crosswalk was shown to the group as the final step in preparing the plan for submission. The Vice Chairman called for a motion to approve the plan with corrections for submission to the Florida Division of Emergency Management for review and possible comment. The motion was made and seconded. Approval to submit the plan was unanimous.

The Vice-Chairman asked if there was any other business. Emergency Management stated that the review should be complete by June. If the plan is approved and forwarded to FEMA for final approval, we would then take the resolutions to our respective boards for approval of the plan. If we receive comments/corrections back from the state, the committee will be reconvened as necessary.

Several committee members have requested a disk of the submission to the state so that they may begin the process of educating government officials concerning the plan. Emergency Management agreed to provide the eight members with a disk. The members were cautioned that the Critical Facility maps are protected by F.S. 119 and may not be shared with the public. Public access to all other files on the disk is allowed. Emergency Management will also place the final submission, less the critical facility maps, on their website. .

The members, participants, and other interested parties were thanked for their participation in the process. A motion was made, seconded, and passed to adjourn at 3:20 pm.

Attachment 3

Public Participation in LMS Process

Following are copies of proof of publications documenting public meeting notices published during the 2009 LMS Update in the St. Petersburg Times, Tampa Tribune, and Pasco County Website.

State of Florida
County of Hillsborough

}

THE TAMPA TRIBUNE
Published Daily
Tampa, Hillsborough County, Florida

Before the undersigned authority personally appeared Timothy J. Wahl, who on oath says he is the Advertiser of the Tampa Tribune, a daily newspaper published at Tampa in Hillsborough County Florida; the attached copy of advertisement being a

LEGAL NOTICE IN THE PASCO TRIBUNE
NOTICE OF PUBLIC MEETING
PASCO COUNTY EMERGENCY MANAGEMENT

In the matter of PASCO COUNTY EMERGENCY MANAGEMENT

was published in said newspaper in the issues of October 15, 2008

Affiant further says that the said The Tampa Tribune is a newspaper published at Tampa in said Hillsborough County Florida, and that the said newspaper has heretofore been continuously published in said Hillsborough County Florida each day and has been entered as second class mail matter at the post office in Tampa, in said Hillsborough County Florida for a period of one year next preceding the first publication of the attached copy of advertisement further says that she has neither paid nor promised any person, this advertisement for publication in the

Sworn to and subscribed by me, this _____ 15th _____, A.D.

Personally Known _____ or Produced Identification _____
Type of Identification Produced _____

PR 1032 2577087



LEGAL ADVERTISEMENT
NOTICE OF PUBLIC MEETING
PASCO COUNTY HAZARD
MITIGATION COMMITTEE

Public Notice is hereby given that the Pasco County Hazard Mitigation Committee will hold a public meeting on Wednesday, October 29, 2008 at the Pasco County Emergency Operations Center, 8744 Government Drive, New Port Richey, FL 34654 at 1:30 p.m. to discuss the re-submittal of the multi-jurisdictional Local Mitigation Strategy for Pasco County.

Pasco County, in coordination with the municipalities, developed a Local Mitigation Strategy in 1998 as part of the State of Florida's "Breaking the Cycle" Initiative. A 2005 Local Mitigation Strategy Update to the plan was issued to bring the Local Mitigation Strategy into compliance with the local hazard mitigation requirements of Section 392 of the Disaster Mitigation Act of 2000. The 2008 plan update was approved by FEMA in August of 2004. The current Local Mitigation Strategy approved will expire on August 29, 2009. The Local Mitigation Strategy is a plan developed with input from the community, business and industry and local government to promote hazard mitigation and to manage post-disaster recovery. The plan must be updated and reviewed annually and re-submitted in total every five years to address the federal guidance promulgated as a result of the Disaster Mitigation Act of 2000. The purpose of this meeting is to organize the Hazard Mitigation Committee and plan for the re-submittal of the Local Mitigation Strategy.

Information concerning the Local Mitigation Strategy will be on file and available for examination in the Office of Emergency Management, Emergency Operations Center, 8744 Government Drive, New Port Richey. If there are any questions or comments regarding this meeting, please contact the Office of Emergency Management at (727) 847-8137. Written comments can be mailed to: Office of Emergency Management, 7530 Little Road, New Port Richey, FL 34654-5598.

If you are a person with a disability who needs any accommodation in order to participate in this meeting, you are entitled, at no cost to you, to the provision of certain assistance. Within two working days of your receipt of this notice, please contact the Consumer Affairs Section, West Pasco Government Center, 7530 Little Road, New Port Richey, FL 34654, (727) 847-8110 (V) in New Port Richey, (852) 521-4274, Ext. 8110 (V) in Dade City, or via (800) 955-8771 if you are hearing impaired.

PR1032

October 15, 2008

PASCO TIMES

An Edition of the St. Petersburg Times

Published Daily
Port Richey, Pasco County, Florida

STATE OF FLORIDA COUNTY OF PASCO:

Before the undersigned authority personally appeared Jessica Attard who on oath says that she is Legal Clerk of the Pasco Times a daily newspaper published at Port Richey, in Pasco County, Florida; that the attached copy of advertisement, being a Legal Notice in the matter of RE: Notice of Public Meeting Pasco County Hazard Mitigation Committee

October 29, 2008
in the _____ Court
was published in said newspaper in the issues of
October 15, 2008

Affiant further says the said Pasco Times is a newspaper published at Port Richey, in said Pasco County, Florida, and that the said newspaper has heretofore been continuously published in said Pasco County, Florida, each day and has been entered as second class mail matter at the post office in Port Richey in said Pasco County, Florida, for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that she has neither paid nor promised any person, firm, or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in the said newspaper.

Jessica Attard
Signature of Affiant

Sworn to and subscribed before me this 15th day
of October, 2008.

 **Mary Ellen Heighton**
Commission # DD503972
Expires January 4, 2010
Notary Public, State of Florida, Insurance No. 800-985-7019

Mary Ellen Heighton
Signature of Notary Public

Personally known or produced identification _____

Type of identification produced _____

NOTICE OF PUBLIC MEETING PASCO COUNTY HAZARD MITIGATION COMMITTEE

Public Notice is hereby given that the Pasco county Hazard Mitigation Committee will hold a public meeting on Wednesday, October 29, 2008 at the Pasco County Emergency Operations Center, 8744 Government Drive, New Port Richey, FL 34654 at 1:30 p.m. to discuss the re-submittal of the multi-jurisdictional Local Mitigation Strategy for Pasco County.

Pasco County, in coordination with the municipalities, developed a Local Mitigation Strategy in 1998 as part of the State of Florida's "Breaking the Cycle" initiative. A 2003 Local Mitigation Strategy Update to the plan was issued to bring the Local Mitigation Strategy into compliance with the local hazard mitigation requirements of Section 322 of the Disaster Mitigation Act of 2000. The 2003 plan update was approved by FEMA in August of 2004. The current Local Mitigation Strategy approval will expire on August 29, 2009. The Local Mitigation Strategy is a plan developed with input from the community, business and industry and local government to promote hazard mitigation and to manage post-disaster recovery. The plan must be updated and reviewed annually and re-submitted in total every five years to address the federal guidance promulgated as a result of the Disaster Mitigation Act of 2000. The purpose of this meeting is to organize the Hazard Mitigation Committee and plan for the re-submittal of the Local Mitigation Strategy.

Information concerning the Local Mitigation Strategy will be on file and available for examination in the Office of Emergency Management, Emergency Operations Center, 8744 Government Drive, New Port Richey. If there are any questions or comments regarding this meeting, please contact the Office of Emergency Management at (727) 847-8137. Written comments can be mailed to: Office of Emergency Management, 7530 Little Road, New Port Richey, FL 34654-5598.

If you are a person with a disability who needs any accommodation in order to participate in this meeting, you are entitled, at no cost to you, to the provision of certain assistance. Within two working days of your receipt of this notice, please contact the Consumer Affairs Section, West Pasco Government Center, 7530 Little Road, New Port Richey, FL 34654; (727) 847-8110 (V) in New Port Richey; (352) 521-4274, Ext. 8110 (V) in Dade City; or via (800) 955-8771 if you are hearing impaired.

10/15/08

855027-01



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SEVERE
SEVERE RISK OF TERRORIST ATTACKS

HIGH
HIGH RISK OF TERRORIST ATTACKS

ELEVATED
ELEVATED RISK OF TERRORIST ATTACKS

GUARDED
GUARDED RISK OF TERRORIST ATTACKS

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LOW RISK OF TERRORIST ATTACKS

Pasco County Launches Test of Emergency Notification System for State Pilot Program

CLICK HERE FOR ONE-STEP NOTIFICATION

Receive timely notifications by telephone, cell phone and e-mail.

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This mass notification system is being developed to warn you of emergent situations which could endanger your life. Such emergencies could include a hazardous materials incident, wildfires, boil water notices or other conditions.

We encourage our residents to participate in this pilot program, which includes more than one million households from Pasco, Brevard, Orange, and Polk counties. The service enables key officials to send emergency information via voice messages to local residents' telephones.

Click on the logo to signup!
Click here for the press release.



Hurricane Season Ends in:

27 : 15 : 02 : 25 : 746

Notice of Public Meeting

The Pasco County Hazard Mitigation Committee will hold a public meeting on Wednesday, November 19, 2008 at the Pasco County Emergency Operations Center, 3744 Government Drive, New Port Richey, FL 34654 at 1:30 p.m. to discuss the re-submittal of the multi-jurisdictional Local Mitigation Strategy for Pasco County. Click here for additional information.

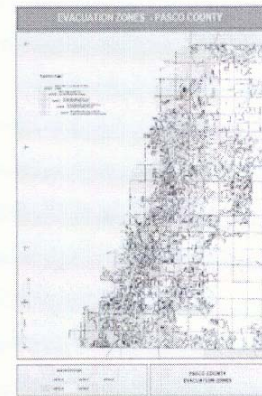
Pasco County Office of Emergency Management

Resident Information Center
727-847-8959

Emergency Operations Center
7530 Little Road
New Port Richey, FL 34654
Office 727-847-8137
Fax 727-847-8004

oem@pascocountyfl.net or
pascoem@earthlink.net

For Additional Information Call
New Port Richey.....727-847-8137
Land O'Lakes.....813-996-7341
Dade City.....352-521-5137
TDD.....727-847-8949 or call
Florida Relay Service at 1-800-955-8771



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<http://www.pascoemergencymanagement.com/>

11/4/2008

**NOTICE OF PUBLIC MEETING
PASCO COUNTY HAZARD
MITIGATION COMMITTEE**

Public Notice is hereby given that the Pasco County Hazard Mitigation Committee will hold a public meeting on Wednesday, January 14, 2009 at the Pasco County Emergency Operations Center, 8744 Government Drive, New Port Richey, FL 34654 at 1:30 p.m. to discuss the annual update and the re-submittal of the multi-jurisdictional Local Mitigation Strategy for Pasco County.

Pasco County, in conjunction with the municipalities, developed a Local Mitigation Strategy in 1998 as part of the State of Florida's "Breaking the Cycle" initiative. A 2003 Local Mitigation Strategy Update to the plan was issued to bring the Local Mitigation Strategy into compliance with the local hazard mitigation requirements of Section 322 of the Disaster Mitigation Act of 2000. The 2003 plan update was approved by FEMA in August of 2004. The current Local Mitigation Strategy approval will expire on August 29, 2009. The Local Mitigation Strategy is a plan developed with input from the community, business and industry and local government to promote hazard mitigation and to manage post-disaster recovery. The plan must be updated and reviewed annually and re-submitted in total every five years to address the federal guidance promulgated as a result of the Disaster Mitigation Act of 2000. The dual purpose of this meeting is to prepare and approve the annual update of the current Local Mitigation Strategy and continue working on the re-submittal of the Local Mitigation Strategy.

Information concerning the Local Mitigation Strategy will be on file and available for examination in the Office of Emergency Management, Emergency Operations Center, 8744 Government Drive, New Port Richey. If there are any questions or comments regarding this meeting, please contact the Office of Emergency Management at (727) 847-8137. Written comments can be mailed to: Office of Emergency Management, 7530 Little Road, New Port Richey, FL 34654-5598.

If you are a person with a disability who needs any accommodation in order to participate in this meeting, you are entitled, at no cost to you, to the provision of certain assistance. Within two working days of your receipt of this notice, please contact the Consumer Affairs Section, West Pasco Government Center, 7530 Little Road, New Port Richey, FL 34654; (727) 847-8110 (V) in New Port Richey; (352) 521-4274, Ext. 8110 (V) in Dade City; or via (800) 955-8771 if you are hearing impaired.

PR 1083

December 31, 2008

The Tampa Tribune

Published Daily

Tampa, Hillsborough County, Florida

}
ugh } SS.

ned authority personally appeared C. Pugh, who on oath says that ng Billing Supervisor of The Tampa Tribune, a daily newspaper a in Hillsborough County, Florida; that the attached copy of the

P General TT IN THE TT Pasco

Legal Notices

id newspaper in the issues of

12/31/2008

that the said The Tampa Tribune is a newspaper published at Tampa in county, Florida, and that the said newspaper has heretofore been ned in said Hillsborough County, Florida, each day and has been entered il matter at the post office in Tampa, in said Hillsborough County, Florida ear next preceding the first publication of the attached copy of affiant further says that she has neither paid nor promised any person, or publication in the said newspaper.

C. Pugh

scribed by me, this 31 day
2008

Personally Known or Produced Identification
Type of Identification Produced _____



Ana Maria Hodel
Commission # DD551367
Expires: MAY 11, 2010
WWW.AARONNOTARY.COM

Ana Maria Hodel

Order # 0002624773

1012096 -- PASCO COUNTY EMERGENCY

PASCO TIMES

An Edition of the St. Petersburg Times

Published Daily
 Port Richey, Pasco County, Florida

STATE OF FLORIDA COUNTY OF PASCO:

Before the undersigned authority personally appeared Jessica Attard who on oath says that she is a daily newspaper published at Port Richey, in Pasco County, Florida: that the attached copy of advertisement, being a Legal Notice in the matter of RE: Notice of Public Meeting
January 14, 2009

_____ in the _____ Court was published in said newspaper in the issues of December 20, 2008

Affiant further says the said Pasco Times is a newspaper published at Port Richey, in said Pasco County, Florida, and that the said newspaper has heretofore been continuously published in said Pasco County, Florida, each day and has been entered as second class mail matter at the post office in Port Richey in said Pasco County, Florida, for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that she has neither paid nor promised any person, firm, or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in the said newspaper.

Jessica Attard
 Signature of Affiant

Sworn to and subscribed before me this 22nd day of December, 2008.

Mary Ellen Houghton
 Commission # DD5039
 Expires January 6, 2011

Mary Ellen Houghton
 Signature of Notary Public

Personally known or produced identification _____

Type of identification produced _____

NOTICE OF PUBLIC MEETING PASCO COUNTY HAZARD MITIGATION COMMITTEE

Public Notice is hereby given that the Pasco County Hazard Mitigation Committee will hold a public meeting on Wednesday, January 14, 2009 at the Pasco County Emergency Operations Center, 8744 Government Drive, New Port Richey, FL 34654 at 1:30 p.m. to discuss the annual update and the re-submittal of the multi-jurisdictional Local Mitigation Strategy for Pasco County.

Pasco County, in coordination with the municipalities, developed a Local Mitigation Strategy in 1998 as part of the State of Florida's "Breaking the Cycle" initiative. A 2003 Local Mitigation Strategy Update to the plan was issued to bring the Local Mitigation Strategy in to compliance with the local hazard mitigation requirements of Section 322 of the Disaster Mitigation Act of 2000. The 2003 plan update was approved by FEMA in August of 2004. The current Local Mitigation Strategy approval will expire on August 29, 2009. The Local Mitigation Strategy is a plan developed with input from the community, business and industry and local government to promote hazard mitigation and to manage post-disaster recovery. The plan must be updated and reviewed annually and re-submitted in total every five years to address the federal guidance promulgated as a result of the Disaster Mitigation Act of 2000. The dual purpose of this meeting is to prepare and approve the annual update of the current Local Mitigation Strategy and continue working on the re-submittal of the Local Mitigation Strategy.

Information concerning the Local Mitigation Strategy will be on file and available for examination in the Office of Emergency Management, Emergency Operations Center, 8744 Government Drive, New Port Richey. If there are any questions or comments regarding this meeting, please contact the Office of Emergency Management at (727) 847-8137. Written comments can be mailed to: Office of Emergency Management, 7530 Little Road, New Port Richey, FL 34654-5598.

If you are a person with a disability who needs any accommodation in order to participate in this meeting, you are entitled, at no cost to you, to the provision of certain assistance. Within two working days of your receipt of this notice, please contact the Consumer Affairs Section, West Pasco Government Center, 7530 Little Road, New Port Richey, FL 34654; (727) 847-8110 (V) in New Port Richey; (352) 521-4274, Ext. 8110 (V) in Dade City; or via (800) 955-8771 if you are hearing impaired.

12/20/08

904889-01

**NOTICE OF PUBLIC MEETING
PASCO COUNTY HAZARD
MITIGATION COMMITTEE**

Public Notice is hereby given that the Pasco County Hazard Mitigation Committee will hold a public meeting on Wednesday, February 25, 2009 at the Pasco County Emergency Operations Center, 8744 Government Drive, New Port Richey, FL 34654 at 1:30 p.m. to receive comments and approve the re-submittal of the multi-jurisdictional Local Mitigation Strategy for Pasco County.

Pasco County, in coordination with the municipalities, developed a Local Mitigation Strategy in 1998 as part of the State of Florida's "Breaking the Cycle" initiative. A 2003 Local Mitigation Strategy Update to the plan was issued to bring the Local Mitigation Strategy into compliance with the local hazard mitigation requirements of Section 322 of the Disaster Mitigation Act of 2000. The 2003 plan update was approved by FEMA in August of 2004. The current Local Mitigation Strategy approval will expire on August 29, 2009. The Local Mitigation Strategy is a plan developed with input from the community, business and industry and local government to promote hazard mitigation and to manage post-disaster recovery. The plan must be updated and reviewed annually and re-submitted in total every five years to address the federal guidance promulgated as a result of the Disaster Mitigation Act of 2000. The purpose of this meeting is to receive comments and request approval of the re-submittal of the Local Mitigation Strategy.

Information concerning the Local Mitigation Strategy is on file, available for examination in the Office of Emergency Management, Emergency Operations Center, 8744 Government Drive, New Port Richey, and available on the Emergency Management Website (pascoemergencymanagement.com/mitigation/lms.html). If there are any questions or comments regarding this meeting, please contact the Office of Emergency Management at (727) 847-8137. Written comments can be mailed to: Office of Emergency Management, 7530 Little Road, New Port Richey, FL 34654-5598.

If you are a person with a disability who needs any accommodation in order to participate in this meeting, you are entitled, at no cost to you, to the provision of certain assistance. Within two working days of your receipt of this notice, please contact the Consumer Affairs Section, West Pasco Government Center, 7530 Little Road, New Port Richey, FL 34654; (727) 847-8110 (V) in New Port Richey; (352) 521-4274, Ext. 8110 (V) in Dade City; or via (800) 955-8771 if you are hearing impaired.

PR1034

The Tampa Tribune

Published Daily

Tampa, Hillsborough County, Florida

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} SS.

ned authority personally appeared C. Pugh, who on oath says that g Billing Supervisor of The Tampa Tribune, a daily newspaper in Hillsborough County, Florida; that the attached copy of the


General TT IN THE TT Pasco

Legal Notices

id newspaper in the issues of

02/11/2009

that the said The Tampa Tribune is a newspaper published at Tampa in county, Florida, and that the said newspaper has heretofore been ed in said Hillsborough County, Florida, each day and has been entered il matter at the post office in Tampa, in said Hillsborough County, Florida ear next preceding the first publication of the attached copy of affiant further says that she has neither paid nor promised any person, or publication in the said newspaper.



scribed by me, this 11 day
2009

February 11, 2009
Personally Known or Produced Identification ____
Type of Identification Produced _____



Order # 0002658340

1012096 -- PASCO COUNTY EMERGENCY

PASCO TIMES

An Edition of the St. Petersburg Times

Published Daily

Port Richey, Pasco County, Florida

STATE OF FLORIDA COUNTY OF PASCO:

Before the undersigned authority personally appeared Jessica Attard who on oath says that she is Legal Clerk of the Pasco Times a daily newspaper published at Port Richey, in Pasco County, Florida; that the attached copy of advertisement, being a Legal Notice in the matter of RE: Notice of Public Meeting
Pasco County Hazard Mitigation Committee

_____ in the _____ Court was published in said newspaper in the issues of _____
February 10, 2009

Affiant further says the said Pasco Times is a newspaper published at Port Richey, in said Pasco County, Florida, and that the said newspaper has heretofore been continuously published in said Pasco County, Florida, each day and has been entered as second class mail matter at the post office in Port Richey in said Pasco County, Florida, for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that she has neither paid nor promised any person, firm, or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in the said newspaper.

Jessica Attard
Signature of Affiant

Sworn to and subscribed before me this 10th day of February, 2009.

 Mary Ellen Heighton
Commission # DD503972
Expires January 4, 2010

Mary Ellen Heighton
Signature of Notary Public

Personally known or produced identification _____

Type of identification produced _____

LEGAL NOTICE

NOTICE OF PUBLIC MEETING PASCO COUNTY HAZARD MITIGATION COMMITTEE

Public Notice is hereby given that the Pasco County Hazard Mitigation Committee will hold a public meeting on Wednesday, February 25, 2009 at the Pasco County Emergency Operations Center, 8744 Government Drive, New Port Richey, FL 34654 at 1:30 p.m. to receive comments and approve the re-submittal of the multi-jurisdictional Local Mitigation Strategy for Pasco County.

Pasco County, in coordination with the municipalities, developed a Local Mitigation Strategy in 1998 as part of the State of Florida's "Breaking the Cycle" initiative. A 2003 Local Mitigation Strategy Update to the plan was issued to bring the Local Mitigation Strategy into compliance with the local hazard mitigation requirements of Section 322 of the Disaster Mitigation Act of 2000. The 2003 plan update was approved by FEMA in August of 2004. The current Local Mitigation Strategy approval will expire on August 29, 2009. The Local Mitigation Strategy is a plan developed with input from the community, business and industry and local government to promote hazard mitigation and to manage post-disaster recovery. The plan must be updated and reviewed annually and re-submitted in total every five years to address the federal guidance promulgated as a result of the Disaster Mitigation Act of 2000. The purpose of this meeting is to receive comments and request approval of the re-submittal of the Local Mitigation Strategy.

Information concerning the Local Mitigation Strategy is on file, available for examination in the Office of Emergency Management, Emergency Operations Center, 8744 Government Drive, New Port Richey, and available on the Emergency Management Website (pascoemergencymanagement.com/mitigation.lms.html). If there are any questions or comments regarding this meeting, please contact the Office of Emergency Management at (727) 847-8137. Written comments can be mailed to: Office of Emergency Management, 7530 Little Road, New Port Richey, FL 34654-5598.

If you are a person with a disability who needs any accommodation in order to participate in this meeting, you are entitled, at no cost to you, to the provision of certain assistance. Within two working days of your receipt of this notice, please contact the Consumer Affairs Section, West Pasco Government Center, 7530 Little Road, New Port Richey, FL 34654; (727) 847-8110 (V) in New Port Richey; (352) 521-4274, Ext. 8110 (V) in Dade City; or via (800) 955-8771 if you are hearing impaired.

02/10/09

943712-01

Attachment 4

Resolutions by the Local Jurisdictions of Pasco County
(To be replaced by signed resolutions upon approval by FEMA)

A RESOLUTION BY THE BOARD OF COUNTY COMMISSIONERS
OF PASCO COUNTY, FLORIDA, SUPPORTING AND ADOPTING
THE PASCO COUNTY FEBRUARY 2009 REVISION OF THE LOCAL
MITIGATION STRATEGY; PROVIDING AN EFFECTIVE DATE.

WHEREAS, Section 322 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act, 42 U.S.C. 5165, as amended by the Disaster Mitigation Act of 2000 (DMA2K) (P.L. 106-390) provides for States, Tribes, and local governments to undertake a risk-based approach to reducing risks to natural hazards through mitigation planning. The National Flood Insurance Act of 1968, as amended, 42 U.S. C. 4001 *et seq.*, reinforced the need and requirement for mitigation plans, linking flood mitigation assistance programs to State, Tribal and Local Mitigation Strategy (LMS), and

WHEREAS, The Federal Emergency Management Agency (FEMA) has implemented various hazard mitigation planning provisions through regulation at 44 CFR Part 201.6 requiring local governments to have a FEMA approved LMS in order to apply for and/or receive project grants, and

WHEREAS, 44 CFR 201.6(d)(3) requires local jurisdictions to review and revise their LMS to reflect changes in development, progress in local mitigation efforts, and changes in priorities, and resubmit it for approval within five (5) years in order to continue to be eligible for mitigation project grant funding, and

WHEREAS, the Pasco County Local Mitigation Strategy was updated, submitted to the Federal Emergency Management Agency, in 2004, and

WHEREAS, The Federal Emergency Management Agency's (FEMA) approval of the current Pasco County's Local Mitigation Strategy will expire on August 29, 2009, and

WHEREAS, the February 2009 LMS was transmitted to FEMA through the Florida Division of Emergency Management (FDEM) and found in compliance with the local mitigation requirements of Section 322 of the DMA2K as implemented in 44 C.F. R., Part 201.

NOW, THEREFORE, BE IT RESOLVED by the Board of County Commissioners of Pasco County, Florida in regular session duly assembled this date, that:

1. The Local Mitigation Strategy, February 2009 Revision, for Pasco County is hereby adopted and authorized for implementation.
2. This resolution shall take effect immediately upon its adoption.

DONE AND RESOLVED THIS _____ DAY OF _____, _____.

(SEAL)

ATTEST:

JACK MARIANO
CHAIRMAN, BOARD OF COUNTY COMMISSIONERS OF
PASCO COUNTY, FLORIDA

RESOLUTION NO. _____

**A RESOLUTION OF THE CITY COMMISSION OF
PORT RICHEY, FLORIDA SUPPORTING AND ADOPTING
THE PASCO COUNTY FEBRUARY 2009 REVISION OF THE
LOCAL MITIGATION STRATEGY.**

WHEREAS, the City Of Port Richey is located in an area that is vulnerable to natural and man-made disasters; and

WHEREAS, the City supports reasonable efforts to make the community better prepared for future disasters and better able to recover after disaster strikes, and

WHEREAS, the State of Florida has stipulated that a Local Mitigation Strategy is the first step in the process of making a community better prepared to manage disasters; and

WHEREAS, by adopting the Pasco County February 2009 Revision of the Local Mitigation Strategy, the framework for future mitigation efforts and post-disaster recovery may be made easier and faster; and

WHEREAS, the Pasco County February 2009 Revision of the Local Mitigation Strategy is in compliance with the local hazard mitigation requirements of Section 322 of the Disaster Mitigation Act of 2000 as implemented in 44 C.F.R., Part 201.

NOW, THEREFORE, be it resolved by the City Commission of Port Richey, Pasco County, Florida, in regular session duly assembled that:

Section 1. The City Commission of the City Of Port Richey does hereby approved and adopt the Pasco County February 2009 Revision of the Local Mitigation Strategy and recommends it be adopted by the Pasco County Board of County Commissioners.

Section 2. That this resolution shall take effect as provided by the City Charter.

DONE AND RESOLVED in open and regular meeting on the ___ day of _____, A.D. 2009.

PORT RICHEY, FLORIDA

RICHARD ROBER, MAYOR

ATTEST

SHIRLEY DRESCH, CITY CLERK

MICHAEL BRANNIGAN, CITY ATTORNEY

RESOLUTION NO. _____

**A RESOLUTION OF THE CITY COUNCIL OF NEW
PORT RICHEY, FLORIDA SUPPORTING AND ADOPTING
THE PASCO COUNTY FEBRUARY 2009 REVISION OF THE
LOCAL MITIGATION STRATEGY.**

WHEREAS, the City Of New Port Richey is located in an area that is vulnerable to natural and man-made disasters; and

WHEREAS, the City supports reasonable efforts to make the community better prepared for future disasters and better able to recover after disaster strikes, and

WHEREAS, the State of Florida has stipulated that a Local Mitigation Strategy is the first step in the process of making a community better prepared to manage disasters; and

WHEREAS, by adopting the Pasco County February 2009 Revision of the Local Mitigation Strategy, the framework for future mitigation efforts and post-disaster recovery may be made easier and faster; and

WHEREAS, the Pasco County February 2009 Revision of the Local Mitigation Strategy is in compliance with the local hazard mitigation requirements of Section 322 of the Disaster Mitigation Act of 2000 as implemented in 44 C.F.R., Part 201.

NOW, THEREFORE, be it resolved by the City Council of New Port Richey, Pasco County, Florida, in regular session duly assembled that:

Section 1. The City Council of the City Of New Port Richey does hereby approve and adopt the Pasco County February 2009 Revision of the Local Mitigation Strategy and recommends it be adopted by the Pasco County Board of County Commissioners.

Section 2. That this resolution shall take effect as provided by the City Charter.

DONE AND RESOLVED in open and regular meeting on the ___ day of _____, A.D. 2009.

ATTEST:

**LINDA KANN
CITY CLERK**

(CITY SEAL)

**SCOTT MCPHERSON
MAYOR**

APPROVED AS TO FORM:

**THOMAS K. MORRISON
CITY ATTORNEY**

Prepared at the direction of the City Commission

RESOLUTION NO. _____

A RESOLUTION OF THE CITY COMMISSION OF DADE CITY, FLORIDA SUPPORTING AND ADOPTING THE PASCO COUNTY FEBRUARY 2009 REVISION OF THE LOCAL MITIGATION STRATEGY.

WHEREAS, the City of Dade City is located in an area that is vulnerable to natural and man-made disasters; and

WHEREAS, the City supports reasonable efforts to make the community better prepared for future disasters and better able to recover after disaster strikes, and

WHEREAS, the State of Florida has stipulated that a Local Mitigation Strategy is the first step in the process of making a community better prepared to manage disasters; and

WHEREAS, by adopting the Pasco County February 2009 Revision of the Local Mitigation Strategy, the framework for future mitigation efforts and post-disaster recovery may be made easier and faster; and

WHEREAS, the Pasco County February 2009 Revision of the Local Mitigation Strategy is in compliance with the local hazard mitigation requirements of Section 322 of the Disaster Mitigation Act of 2000 as implemented in 44 C.F.R., Part 201.

NOW, THEREFORE, be it resolved by the City Commission of Dade City, Pasco County, Florida, in regular session duly assembled that:

Section 1. The City Commission of the City of Dade City does hereby approve and adopt the Pasco County February 2009 Revision of the Local Mitigation Strategy and recommends it be adopted by the Pasco County Board of County Commissioners.

Section 2. That this resolution shall take effect as provided by the City Charter.

DONE AND RESOLVED in open and regular meeting on the ___ day of _____, A.D. 2009.

DADE CITY, FLORIDA

SCOTT BLACK, MAYOR

ATTEST

JAMES D. CLASS, CITY CLERK

KARLA S. OWENS, CITY ATTORNEY

RESOLUTION NO. _____

**A RESOLUTION OF THE CITY COMMISSION OF THE
CITY OF SAN ANTONIO, FLORIDA SUPPORTING AND
ADOPTING THE PASCO COUNTY FEBRUARY 2009
REVISION OF THE LOCAL MITIGATION STRATEGY.**

WHEREAS, the City of San Antonio is located in an area that is vulnerable to natural and man-made disasters; and

WHEREAS, the City supports reasonable efforts to make the community better prepared for future disasters and better able to recover after disaster strikes, and

WHEREAS, the State of Florida has stipulated that a Local Mitigation Strategy is the first step in the process of making a community better prepared to manage disasters; and

WHEREAS, by adopting the Pasco County February 2009 Revision of the Local Mitigation Strategy, the framework for future mitigation efforts and post-disaster recovery may be made easier and faster; and

WHEREAS, the Pasco County February 2009 Revision of the Local Mitigation Strategy is in compliance with the local hazard mitigation requirements of Section 322 of the Disaster Mitigation Act of 2000 as implemented in 44 C.F.R., Part 201.

NOW, THEREFORE, be it resolved by the City Commission of San Antonio, Pasco County, Florida, in regular session duly assembled that:

Section 1. The City Commission of the City of San Antonio does hereby approved and adopt the Pasco County February 2009 Revision of the Local Mitigation Strategy and recommends it be adopted by the Pasco County Board of County Commissioners.

Section 2. That this resolution shall take effect as provided by the City Charter.

DONE AND RESOLVED in open and regular meeting on the ___ day of _____, A.D. 2009.

CITY OF SAN ANTONIO, FLORIDA

ANTHONY LISTER, MAYOR

ATTEST

BARBARA SESSA , CITY CLERK

RICHARD DAVIS, CITY ATTORNEY

RESOLUTION NO. _____

**A RESOLUTION OF THE TOWN COMMISSION OF THE
TOWN OF ST. LEO, FLORIDA SUPPORTING AND
ADOPTING THE PASCO COUNTY FEBRUARY 2009
REVISION OF THE LOCAL MITIGATION STRATEGY.**

WHEREAS, the Town Of St. Leo is located in an area that is vulnerable to natural and man-made disasters; and

WHEREAS, the Town supports reasonable efforts to make the community better prepared for future disasters and better able to recover after disaster strikes, and

WHEREAS, the State of Florida has stipulated that a Local Mitigation Strategy is the first step in the process of making a community better prepared to manage disasters; and

WHEREAS, by adopting the Pasco County February 2009 Revision of the Local Mitigation Strategy, the framework for future mitigation efforts and post-disaster recovery may be made easier and faster; and

WHEREAS, the Pasco County February 2009 Revision of the Local Mitigation Strategy is in compliance with the local hazard mitigation requirements of Section 322 of the Disaster Mitigation Act of 2000 as implemented in 44 C.F.R., Part 201.

NOW, THEREFORE, be it resolved by the Town Commission of St. Leo, Pasco County, Florida, in regular session duly assembled that:

Section 1. The Town Commission of the Town Of St. Leo does hereby approved and adopt the Pasco County February 2009 Revision of the Local Mitigation Strategy and recommends it be adopted by the Pasco County Board of County Commissioners.

Section 2. That this resolution shall take effect as provided by the Town Charter.

DONE AND RESOLVED in open and regular meeting on the ___ day of _____, A.D. 2009.

TOWN OF ST. LEO , FLORIDA

JAMES HALLETT, O.S.B., MAYOR

ATTEST

JOAN MILLER, TOWN CLERK

PATRICIA A. PETRUFF, TOWN ATTORNEY

RESOLUTION NO. _____

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF ZEPHYRHILLS, FLORIDA SUPPORTING AND ADOPTING THE PASCO COUNTY FEBRUARY 2009 REVISION OF THE LOCAL MITIGATION STRATEGY.

WHEREAS, the City Of Zephyrhills is located in an area that is vulnerable to natural and man-made disasters; and

WHEREAS, the City supports reasonable efforts to make the community better prepared for future disasters and better able to recover after disaster strikes, and

WHEREAS, the State of Florida has stipulated that a Local Mitigation Strategy is the first step in the process of making a community better prepared to manage disasters; and

WHEREAS, by adopting the Pasco County February 2009 Revision of the Local Mitigation Strategy, the framework for future mitigation efforts and post-disaster recovery may be made easier and faster; and

WHEREAS, the Pasco County February 2009 Revision of the Local Mitigation Strategy is in compliance with the local hazard mitigation requirements of Section 322 of the Disaster Mitigation Act of 2000 as implemented in 44 C.F.R., Part 201.

NOW, THEREFORE, be it resolved by the City Council of the City of Zephyrhills, Florida, in regular session duly assembled that:

Section 1. The City Council of the City Of Zephyrhills does hereby approved and adopt the Pasco County February 2009 Revision of the Local Mitigation Strategy and recommends it be adopted by the Pasco County Board of County Commissioners.

Section 2. That this resolution shall take effect as provided by the City Charter.

DONE AND RESOLVED in open and regular meeting on the ___ day of _____, A.D. 2009.

NOW, THEREFORE BE IT PASSED by the City Council of the City of Zephyrhills, Florida sitting in regular session this _____ day of _____, 2009.

Attest: _____
Linda D. Boan, City Clerk

Luis M. Lopez, Council President

W. Cliff McDuffie, Mayor

Approved as to legal form and legal content

Joseph A. Poblick, City Attorney

Appendix H: Hazard Impact and Estimated Losses

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Hurricanes

The following data describes the threat of wind and flood damage from tropical cyclones (hurricanes). These threats are described in terms of the peak one minute sustained wind in mph for wind, and the peak water level in feet for storms of this Saffir Simpson hurricane category. This is a Maximum Envelope data set, representing the peak possible impact this storm type could have on Pasco County and its municipalities. These notes and charts contain notes on the data sources, how the population is segmented in the reports, and some basic notes on how loss estimates were calculated.

Data Sources

This document presents population at risk, housing, and damage estimates based on Census 2000 (U.S. Census Bureau, 2000 Census of Population and Housing, Summary File3: Technical Documentation, 2002.) Tax records from the same time frame (2000) were obtained from the Florida Department of Revenue. All other data (topography, land cover, historical hurricane activity) is from Spring 2004. The analysis is at the level of the census block group (BG). Each BG is treated as a point. The relevant hazard data such as wind and water levels were extracted from the TAOS output files and processed by the automatic report generator.

1.2 Department of Revenue Tax Record notes

The 2000 Department of Revenue Tax Records were used to create an exposure database for use in these analyses.

1.2.1 Georeferencing

A three stage process was used for georeferencing the tax data. Stage one attempted an address match against the Census TIGER file road network. Stage one georeferencing was successful in 70% of cases. Stage two attempted a partial address match, using both zip code and the Public Land Survey System (PLSS) as supplemental data. Stage two georeferencing matched an additional 15% of locations. Stage three, which matched the final 15% of primarily rural locations, used the PLSS data, zip code, and satellite derived land cover to allocate these remaining locations to built locations in the designated Township/Range/Section grid cell. The percentage of address matches (Stages one and two) in rural areas the match rate was as low as 60%.

Census Designated Places (CDP) were used for sub-county regions to insure consistency with other Census based products.

1.3 Census Data and Population at risk notes

Census 2000 data was used at the block group level. Georeferencing of the block groups was provided by the US Census Bureau. The population at risk analysis was divided into the following segments for each hazard zone:

Total: Total population in this census block group.

Minority: Non-white population.

Over 65: Population age 65 and over.

Disabled: Disabled population.

Poverty: Population living in households below the poverty limit.

Lang Iso: Population living in a language isolated household. To qualify as language isolated, a household must contain no one over age 10 that speaks English.

Sing Prnt: Persons living in a single parent household.

* Note that the categories are not exclusive. Therefore, a mobility-impaired person 70 years old in a low income household would count in the Over 65, Low Income, and Disabled categories.

1.4 Loss Estimates

The loss estimates in this document are based on the census housing survey. The housing data includes the number and median value of various types of housing units such as mobile homes, single family, etc. From that data the total infrastructure in each census block is estimated. Thus, the exposure in the block is a composite of the survey data (for housing) and estimate of other infrastructure (commercial, governmental) that typically supports a given level of housing.

Note that these estimates can (and will) differ from the DOR tax parcel based data, which should be more accurate. The census based estimates are included because these are used in the real time damage estimation system. Census based losses estimates are total losses (insured and uninsured), including cleanup.

Something to consider with respect to the Census based estimates is the impact of georeferencing and flood data. The Census data is at the block group level and the exact position of the block group centroid may fall in or out of the flood zone. For lower flood levels such as Category 1 storms with very narrow flood zones, there may be a larger difference between the tax based assessment and census based assessment because of the potential for any given block group to hit or miss the zone.

1.4.1 Valuation, contents, and infrastructure

Tax records normally under value property. We assumed that properties were valued at 80% fair market value. Contents and additional property such as automobiles and boats were estimated according to use type, in keeping with practices used in the insurance industry. An additional 15% that is not normally tracked by tax assessors such as signage, roads, etc.

For Census based estimates, the following method was used: housing values were obtained from the STF-3 files. Contents were estimated as with tax parcel based system. Infrastructure, commercial exposures, and government/institutional exposures were estimated from the satellite derived land cover. For technical details on these methods, see the publications appendix.

1.5 Production Notes

This project was conducted by Kinetic Analysis Corporation and the University of Central Florida Department of Statistics for the Florida Department of Community Affairs under contract number 04HS-L+12-00-22-267.

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Category 1 Hurricane

Countywide Category 1 Impact Summary

Peak winds 94.mph, peak water depth 6.5ft.

Category 1 Maxima Damage Summary:

Tax Parcel based Wind Damage:	\$822.83 Million
DOR based Flood Damage:	\$82.61 Million
DOR Structures in Flood Zone:	3916
Census based Wind Damage:	\$913.61 Million
Census based Flood .Damage:	\$37.64 Million
Uninhabitable Housing Units:	1183 0.7% of total HU.

Countywide Population at risk for Category1Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
Total	344765	344765	180459	0	5228
Minority	22158	22158	12085	0	164
Over 65	92481	92481	46588	0	1720
Disabled	158004	158004	81692	0	2528
Poverty	36201	36201	19253	0	406
Lang Iso	28191	28191	18805	0	610
Sing Pnt	17965	17965	9672	0	282

Countywide Structures at risk for Category1Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
SF Res Mob	97839	97839	56366	0	2410
Home MF	27346	27346	12843	0	186
Res	14051	14051	8643	0	1167
Commercial	5427	5427	3144	0	133
Agriculture	3909	3909	2013	0	2
Gov/Instit	1322	1322	816	0	18

Countywide Loss by DOR Use for Category 1 Maxima

	Exposure	Loss	Percent Loss
SF Res	\$27.05 Billion	\$444.86 Million	1.6%
Mob Home	\$2.52 Billion	\$180.36 Million	7.2%
MF Res	\$2.89 Billion	\$46.89 Million	1.6%
Commercial	\$3.47 Billion	\$56.80 Million	1.6%
Agriculture	\$2.61 Billion	\$38.98 Million	1.5%
Gov/Instit	\$3.55 Billion	\$54.95 Million	1.5%

Impact Summary for Unincorporated Areas Category 1

Maxima Damage Summary:

Tax Parcel based Wind Damage:	\$388.44 Million
DOR based Flood Damage:	\$73.49 Million
DOR Structures in Flood Zone:	3082
Census based Wind Damage:	\$482.98 Million
Census based Flood .Damage:	\$37.64 Million
Uninhabitable Housing Units:	586 0.9% of total HU.

Unincorporated County Population at risk for Category 1

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
Total	137698	137698	82610	0	0
Minority	7455	7455	4686	0	0
Over 65	33531	33531	20056	0	0
Disabled	59616	59616	35983	0	0
Poverty	12888	12888	7904	0	0
Lang Iso	13585	13585	11255	0	0
Sing Pnt	6501	6501	4137	0	0

Unincorporated County Structures at risk for Category 1

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
SF Res	33903	33903	20298	0	1987
Mob Home	14172	14172	6058	0	150
MF Res	5706	5706	3509	0	846
Commercial	1894	1894	1105	0	84
Agriculture	3175	3175	1628	0	2
Gov/Instit	392	392	222	0	13

Unincorporated County Loss by DOR Use for Category 1

	Exposure	Loss	Percent Loss
SF Res	\$11.30 Billion	\$192.70 Million	1.7%
Mob Home	\$1.38 Billion	\$96.37 Million	7.0%
MF Res	\$1.06 Billion	\$17.45 Million	1.7%
Commercial	\$1.15 Billion	\$18.58 Million	1.6%
Agriculture	\$1.02 Billion	\$16.68 Million	1.6%
Gov/Instit	\$2.97 Billion	\$46.66 Million	1.6%

Dade City Category 1 Impact Summary
Peak winds 78.mph, peak water depth 0.0ft.

Category 1 Maxima Damage Summary:

Tax Parcel based Wind Damage: \$9.34 Million
 DOR based Flood Damage: \$0.00 dollars
 DOR Structures in Flood Zone: 0
 Census based Wind Damage: \$7.10 Million
 Census based Flood .Damage: \$0.00 dollars
 Uninhabitable Housing Units: 8 0.3% of total HU.

Population at risk for Category 1

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
Total	6231	6231	4889	0	0
Minority	2334	2334	1804	0	0
Over 65	1149	1149	865	0	0
Disabled	2896	2896	2406	0	0
Poverty	944	944	643	0	0
Lang Iso	137	137	60	0	0
Sing Pnt	484	484	365	0	0

Structures at risk for Category 1

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
SF Res	1568	1568	809	0	0
Mob Home	122	122	34	0	0
MF Res	148	148	88	0	0
Commercial	309	309	198	0	0
Agriculture	71	71	48	0	0
Gov/Instit	112	112	42	0	0

Loss by DOR Use for Category 1

	Exposure	Loss	Percent Loss
SF Res	\$288.37 Million	\$4.04 Million	1.4%
Mob Home	\$7.55 Million	\$484.04 Thousand	6.4%
MF Res	\$46.35 Million	\$639.80 Thousand	1.4%
Commercial	\$110.21 Million	\$1.49 Million	1.4%
Agriculture	\$146.60 Million	\$1.93 Million	1.3%
Gov/Instit	\$46.64 Million	\$761.14 Thousand	1.6%

New Port Richey Category 1 Impact Summary
Peak winds 86.mph, peak water depth 4.3ft.

Category 1 Maxima Damage Summary:

Tax Parcel based Wind Damage: \$30.69 Million
DOR based Flood Damage: \$269.58 Thousand
DOR Structures in Flood Zone: 59
Census based Wind Damage: \$30.28 Million
Census based Flood .Damage: \$0.00 dollars
Uninhabitable Housing Units: 44 0.5% of total HU.

Population at risk for Category 1

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
Total	15685	15685	9843	0	0
Minority	805	805	441	0	0
Over 65	4555	4555	2809	0	0
Disabled	7978	7978	4882	0	0
Poverty	2486	2486	1564	0	0
Lang Iso	8075	8075	4424	0	0
Sing Pnt	1086	1086	668	0	0

Structures at risk for Category 1

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
SF Res	4405	4405	2723	0	6
Mob Home	510	510	378	0	26
MF Res	1242	1242	767	0	25
Commercial	498	498	356	0	2
Agriculture	3	3	2	0	0
Gov/Instit	118	118	92	0	0

Loss by DOR Use for Category 1

	Exposure	Loss	Percent Loss
SF Res	\$900.43 Million	\$14.38 Million	1.6%
Mob Home	\$24.16 Million	\$2.02 Million	8.4%
MF Res	\$228.56 Million	\$3.67 Million	1.6%
Commercial	\$337.27 Million	\$6.18 Million	1.8%
Agriculture	\$250.05 Million	\$4.40 Million	1.8%
Gov/Instit	\$2.21 Million	\$32.93 Thousand	1.5%

Port Richey Category 1 Impact Summary
Peak winds 94.mph, peak water depth 4.9ft.

Category 1 Maxima Damage Summary:

Tax Parcel based Wind Damage: \$11.26 Million
DOR based Flood Damage: \$8.54 Million
DOR Structures in Flood Zone: 714
Census based Wind Damage: \$5.15 Million
Census based Flood .Damage: \$0.00 dollars
Uninhabitable Housing Units: 7 0.4% of total HU.

Population at risk for Category 1 Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
Total	2986	2986	520	0	0
Minority	105	105	0	0	0
Over 65	718	718	210	0	0
Disabled	1955	1955	362	0	0
Poverty	482	482	36	0	0
Lang Iso	472	472	417	0	0
Sing Pnt	125	125	6	0	0

Structures at risk for Category 1 Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
SF Res	979	979	802	0	365
Mob Home	62	62	50	0	5
MF Res	433	433	353	0	293
Commercial	192	192	151	0	46
Agriculture	0	0	0	0	0
Gov/Instit	23	23	20	0	5

Loss by DOR Use for Category 1 Maxima

	Exposure	Loss	Percent Loss
SF Res	\$263.40 Million	\$6.41 Million	2.4%
Mob Home	\$3.54 Million	\$349.77 Thousand	9.9%
MF Res	\$94.97 Million	\$2.34 Million	2.5%
Commercial	\$77.06 Million	\$1.70 Million	2.2%
Agriculture	\$23.64 Million	\$470.35 Thousand	2.0%
Gov/Instit	\$0.00 dollars	\$0.00 dollars	NaN %

Town of St. Leo Category 1 Impact Summary
Peak winds 82.mph, peak water depth 0.0ft.

Category 1 Maxima Damage Summary:

Tax Parcel based Wind	\$1.01 Million	
Damage:		
DOR based Flood Damage:	\$0.00 dollars	
DOR Structures in Flood Zone:	0	
Census based Wind Damage:	\$354.76 Thousand	
Census based Flood .Damage:	\$0.00 dollars	
Uninhabitable Housing Units:	0	0.0% of total HU.

Population at risk for Category1Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
Total	609	609	0	0	0
Minority	85	85	0	0	0
Over 65	38	38	0	0	0
Disabled	137	137	0	0	0
Poverty	28	28	0	0	0
Lang Iso	158	158	97	0	0
Sing Pnt	4	4	0	0	0

Structures at risk for Category1Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
SF Res	31	31	23	0	0
Mob Home	7	7	0	0	0
MF Res	2	2	1	0	0
Commercial	8	8	4	0	0
Agriculture	17	17	7	0	0
Gov/Instit	7	7	3	0	0

Loss by DOR Use for Category 1 Maxima

	Exposure	Loss	Percent Loss
SF Res	\$9.63 Million	\$183.79 Thousand	1.9%
Mob Home	\$726.29 Thousand	\$43.10 Thousand	5.9%
MF Res	\$3.58 Million	\$32.23 Thousand	0.9%
Commercial	\$2.57 Million	\$29.08 Thousand	1.1%
Agriculture	\$41.63 Million	\$601.41 Thousand	1.4%
Gov/Instit	\$10.71 Million	\$119.73 Thousand	1.1%

San Antonio Category 1 Impact Summary
Peak winds 88.mph, peak water depth 0.0ft.

Category 1 Maxima Damage Summary:

Tax Parcel based Wind Damage: \$1.51 Million
DOR based Flood Damage: \$0.00 dollars
DOR Structures in Flood Zone: 0
Census based Wind Damage: \$2.68 Million
Census based Flood .Damage: \$0.00 dollars
Uninhabitable Housing Units: 2 0.7% of total HU.

Population at risk for Category 1 Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
Total	615	615	615	0	0
Minority	26	26	26	0	0
Over 65	48	48	48	0	0
Disabled	275	275	275	0	0
Poverty	62	62	62	0	0
Lang Iso	98	98	98	0	0
Sing Pnt	27	27	27	0	0

Structures at risk for Category 1 Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
SF Res	204	204	168	0	0
Mob Home	6	6	4	0	0
MF Res	17	17	14	0	0
Commercial	32	32	27	0	0
Agriculture	41	41	31	0	0
Gov/Instit	11	11	8	0	0

Loss by DOR Use for Category 1 Maxima

	Exposure	Loss	Percent Loss
SF Res	\$46.59 Million	\$952.03 Thousand	2.0%
Mob Home	\$405.79 Thousand	\$39.02 Thousand	9.6%
MF Res	\$3.02 Million	\$58.71 Thousand	1.9%
Commercial	\$6.20 Million	\$134.15 Thousand	2.2%
Agriculture	\$5.47 Million	\$128.93 Thousand	2.4%
Gov/Instit	\$11.69 Million	\$200.60 Thousand	1.7%

Zephyrhills Category 1 Impact Summary
Peak winds 76.mph, peak water depth 0.0ft.

Category 1 Maxima Damage Summary:

Tax Parcel based Wind	\$17.33 Million	
Damage:		
DOR based Flood Damage:	\$0.00 dollars	
DOR Structures in Flood Zone:	0	
Census based Wind Damage:	\$14.83 Million	
Census based Flood .Damage:	\$0.00 dollars	
Uninhabitable Housing Units:	21	0.3% of total HU.

Population at risk for Category 1 Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
Total	10690	10690	3294	0	0
Minority	939	939	338	0	0
Over 65	3462	3462	1244	0	0
Disabled	5103	5103	1449	0	0
Poverty	1232	1232	335	0	0
Lang Iso	838	838	141	0	0
Sing Pnt	634	634	153	0	0

Structures at risk for Category1Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
SF Res	2454	2454	843	0	0
Mob Home	1237	1237	375	0	0
MF Res	434	434	146	0	0
Commercial	487	487	99	0	0
Agriculture	22	22	7	0	0
Gov/Instit	107	107	14	0	0

Loss by DOR Use for Category1Maxima

	Exposure	Loss	Percent Loss
SF Res	\$479.34 Million	\$5.54 Million	1.2%
Mob Home	\$110.90 Million	\$6.72 Million	6.1%
MF Res	\$69.06 Million	\$848.53 Thousand	1.2%
Commercial	\$218.63 Million	\$2.52 Million	1.2%
Agriculture	\$192.06 Million	\$1.60 Million	0.8%
Gov/Instit	\$10.03 Million	\$112.86 Thousand	1.1%

Category 2 Hurricanes

Hazards for Pasco Impact Summary Peak winds 115.mph, peak water depth 9.5ft.

Category 2 Maxima Damage Summary:

Tax Parcel based Wind	\$2.50 Billion	
Damage:		
DOR based Flood Damage:	\$409.46 Million	
DOR Structures in Flood Zone:	9720	
Census based Wind Damage:	\$2.64 Billion	
Census based Flood .Damage:	\$225.26 Million	
Uninhabitable Housing Units:	3658	2.1% of total HU.

Countywide Population at risk for Category 2 Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
Total	344765	344765	344710	0	15163
Minority	22158	22158	22127	0	459
Over 65	92481	92481	92481	0	4860
Disabled	158004	158004	157983	0	8716
Poverty	36201	36201	36177	0	1772
Lang Iso	28191	28191	28191	0	2696
Sing Pnt	17965	17965	17958	0	753

Countywide Structures at risk for Category 2 Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
SF Res	97839	97839	97812	0	6107
Mob Home	27346	27346	27344	0	1002
MF Res	14051	14051	14051	0	2180
Commercial	5427	5427	5427	0	379
Agriculture	3909	3909	3904	0	6
Gov/Instit	1322	1322	1322	0	46

Countywide Loss by DOR Use for Category 2 Maxima

	Exposure	Loss	Percent Loss
SF Res	\$27.05 Billion	\$1.41 Billion	5.2%
Mob Home	\$2.52 Billion	\$467.76 Million	18.6%
MF Res	\$2.89 Billion	\$150.26 Million	5.2%
Commercial	\$3.47 Billion	\$180.27 Million	5.2%
Agriculture	\$2.61 Billion	\$125.55 Million	4.8%
Gov/Instit	\$3.55 Billion	\$167.89 Million	4.7%

Impact Summary for Unincorporated Areas Category 2

Maxima Damage Summary:

Tax Parcel based Wind Damage:	\$1.16 Billion	
DOR based Flood Damage:	\$287.00 Million	
DOR Structures in Flood Zone:	5476	
Census based Wind Damage:	\$1.35 Billion	
Census based Flood Damage:	\$161.55 Million	
Uninhabitable Housing Units:	1717	2.6% of total HU.

Unincorporated County Population at risk for Category2Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
Total	137698	137698	137643	0	3275
Minority	7455	7455	7424	0	82
Over 65	33531	33531	33531	0	1154
Disabled	59616	59616	59595	0	1921
Poverty	12888	12888	12864	0	338
Lang Iso	13585	13585	13585	0	49
Sing Pnt	6501	6501	6494	0	124

Unincorporated County Structures at risk for Category2 Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
SF Res	33903	33903	33876	0	3509
Mob Home	14172	14172	14170	0	386
MF Res	5706	5706	5706	0	1389
Commercial	1894	1894	1894	0	164
Agriculture	3175	3175	3170	0	2
Gov/Instit	392	392	392	0	26

Unincorporated County Loss by DOR Use for Category2 Maxima

	Exposure	Loss	Percent Loss
SF Res	\$11.30 Billion	\$601.95 Million	5.3%
Mob Home	\$1.38 Billion	\$248.24 Million	18.0%
MF Res	\$1.06 Billion	\$56.09 Million	5.3%
Commercial	\$1.15 Billion	\$59.66 Million	5.2%
Agriculture	\$1.02 Billion	\$52.25 Million	5.1%
Gov/Instit	\$2.97 Billion	\$142.76 Million	4.8%

Dade City Category 2 Impact Summary
Peak winds 95.mph, peak water depth 0.0ft.

Category 2 Maxima Damage Summary:

Tax Parcel based Wind Damage:	\$25.58 Million	
DOR based Flood Damage:	\$0.00 dollars	
DOR Structures in Flood Zone:	0	
Census based Wind Damage:	\$19.09 Million	
Census based Flood .Damage:	\$0.00 dollars	
Uninhabitable Housing Units:	27	1.0% of total HU.

Population at risk for Category2 Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
Total	6231	6231	6231	0	0
Minority	2334	2334	2334	0	0
Over 65	1149	1149	1149	0	0
Disabled	2896	2896	2896	0	0
Poverty	944	944	944	0	0
Lang Iso	137	137	137	0	0
Sing Pnt	484	484	484	0	0

Structures at risk for Category2 Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
SF Res	1568	1568	1568	0	0
Mob Home	122	122	122	0	0
MF Res	148	148	148	0	0
Commercial	309	309	309	0	0
Agriculture	71	71	71	0	0
Gov/Instit	112	112	112	0	0

Loss by DOR Use for Category2 Maxima

	Exposure	Loss	Percent Loss
SF Res	\$288.37 Million	\$10.99 Million	3.8%
Mob Home	\$7.55 Million	\$1.22 Million	16.1%
MF Res	\$46.35 Million	\$1.82 Million	3.9%
Commercial	\$110.21 Million	\$4.14 Million	3.8%
Agriculture	\$146.60 Million	\$5.50 Million	3.8%
Gov/Instit	\$46.64 Million	\$1.92 Million	4.1%

New Port Richey Category 2 Impact Summary

Peak winds 106.mph, peak water depth 7.9ft.

Category 2 Maxima Damage Summary:

Tax Parcel based Wind Damage:	\$98.93 Million	
DOR based Flood Damage:	\$5.19 Million	
DOR Structures in Flood Zone:	271	
Census based Wind Damage:	\$95.52 Million	
Census based Flood .Damage:	\$4.11 Million	
Uninhabitable Housing Units:	159	1.9% of total HU.

Population at risk for Category2 Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
Total	15685	15685	15685	0	699
Minority	805	805	805	0	19
Over 65	4555	4555	4555	0	122
Disabled	7978	7978	7978	0	357
Poverty	2486	2486	2486	0	236
Lang Iso	8075	8075	8075	0	1889
Sing Pnt	1086	1086	1086	0	84

Structures at risk for Category2 Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
SF Res	4405	4405	4405	0	122
Mob Home	510	510	510	0	46
MF Res	1242	1242	1242	0	81
Commercial	498	498	498	0	22
Agriculture	3	3	3	0	0
Gov/Instit	118	118	118	0	0

Loss by DOR Use for Category2 Maxima

	Exposure	Loss	Percent Loss
SF Res	\$900.43 Million	\$47.36 Million	5.3%
Mob Home	\$24.16 Million	\$5.33 Million	22.1%
MF Res	\$228.56 Million	\$11.99 Million	5.2%
Commercial	\$337.27 Million	\$19.88 Million	5.9%
Agriculture	\$250.05 Million	\$14.24 Million	5.7%
Gov/Instit	\$2.21 Million	\$119.50 Thousand	5.4%

Port Richey Category 2 Impact Summary
Peak winds 115.mph, peak water depth 8.3ft.

Category 2 Maxima Damage Summary:

Tax Parcel based Wind Damage:	\$34.02 Million	
DOR based Flood Damage:	\$59.12 Million	
DOR Structures in Flood Zone:	1134	
Census based Wind Damage:	\$17.09 Million	
Census based Flood .Damage:	\$28.76 Million	
Uninhabitable Housing Units:	24	1.4% of total HU.

Population at risk for Category2 Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
Total	2986	2986	2986	0	2582
Minority	105	105	105	0	105
Over 65	718	718	718	0	537
Disabled	1955	1955	1955	0	1655
Poverty	482	482	482	0	456
Lang Iso	472	472	472	0	110
Sing Pnt	125	125	125	0	119

Structures at risk for Category2 Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
SF Res	979	979	974	0	611
Mob Home	62	62	61	0	40
MF Res	433	433	432	0	369
Commercial	192	192	191	0	103
Agriculture	0	0	0	0	0
Gov/Instit	23	23	23	0	11

Loss by DOR Use for Category2 Maxima

	Exposure	Loss	Percent Loss
SF Res	\$263.40 Million	\$19.34 Million	7.3%
Mob Home	\$3.54 Million	\$912.71 Thousand	25.8%
MF Res	\$94.97 Million	\$7.05 Million	7.4%
Commercial	\$77.06 Million	\$5.19 Million	6.7%
Agriculture	\$23.64 Million	\$1.53 Million	6.5%
Gov/Instit	\$0.00 dollars	\$0.00 dollars	NaN %

Town of St. Leo Category 2 Impact Summary
Peak winds 95.mph, peak water depth 0.0ft.

Category 2 Maxima Damage Summary:

Tax Parcel based Wind Damage: \$2.73 Million
DOR based Flood Damage: \$0.00 dollars
DOR Structures in Flood Zone: 0
Census based Wind Damage: \$1.02 Million
Census based Flood .Damage: \$0.00 dollars
Uninhabitable Housing Units: 0 0.0% of total HU.

Population at risk for Category2 Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
Total	609	609	609	0	0
Minority	85	85	85	0	0
Over 65	38	38	38	0	0
Disabled	137	137	137	0	0
Poverty	28	28	28	0	0
Lang Iso	158	158	158	0	0
Sing Pnt	4	4	4	0	0

Structures at risk for Category2 Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
SF Res	31	31	31	0	0
Mob Home	7	7	7	0	0
MF Res	2	2	2	0	0
Commercial	8	8	8	0	0
Agriculture	17	17	17	0	0
Gov/Instit	7	7	7	0	0

Loss by DOR Use for Category2Maxima

	Exposure	Loss	Percent Loss
SF Res	\$9.63 Million	\$468.13 Thousand	4.9%
Mob Home	\$726.29 Thousand	\$98.91 Thousand	13.6%
MF Res	\$3.58 Million	\$101.48 Thousand	2.8%
Commercial	\$2.57 Million	\$84.40 Thousand	3.3%
Agriculture	\$41.63 Million	\$1.64 Million	4.0%
Gov/Instit	\$10.71 Million	\$334.39 Thousand	3.1%

San Antonio Category 2 Impact Summary
Peak winds 104.mph, peak water depth 0.0ft.

Category 2 Maxima Damage Summary:

Tax Parcel based Wind Damage: \$3.88 Million
DOR based Flood Damage: \$0.00 dollars
DOR Structures in Flood Zone: 0
Census based Wind Damage: \$6.50 Million
Census based Flood .Damage: \$0.00 dollars
Uninhabitable Housing Units: 6 2.1% of total HU.

Population at risk for Category2 Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
Total	615	615	615	0	0
Minority	26	26	26	0	0
Over 65	48	48	48	0	0
Disabled	275	275	275	0	0
Poverty	62	62	62	0	0
Lang Iso	98	98	98	0	0
Sing Pnt	27	27	27	0	0

Structures at risk for Category2 Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
SF Res	204	204	204	0	0
Mob Home	6	6	6	0	0
MF Res	17	17	17	0	0
Commercial	32	32	32	0	0
Agriculture	41	41	41	0	0
Gov/Instit	11	11	11	0	0

Loss by DOR Use for Category2 Maxima

	Exposure	Loss	Percent Loss
SF Res	\$46.59 Million	\$2.46 Million	5.3%
Mob Home	\$405.79 Thousand	\$85.21 Thousand	21.0%
MF Res	\$3.02 Million	\$152.18 Thousand	5.0%
Commercial	\$6.20 Million	\$343.84 Thousand	5.5%
Agriculture	\$5.47 Million	\$310.31 Thousand	5.7%
Gov/Instit	\$11.69 Million	\$531.10 Thousand	4.5%

Zephyrhills Category 2 Impact Summary
 Peak winds 93.mph, peak water depth 0.0ft.

Category 2 Maxima Damage Summary:

Tax Parcel based Wind Damage: \$53.31 Million
 DOR based Flood Damage: \$0.00 dollars
 DOR Structures in Flood Zone: 0
 Census based Wind Damage: \$45.39 Million
 Census based Flood .Damage: \$0.00 dollars
 Uninhabitable Housing Units: 85 1.4% of total HU.

Population at risk for Category2 Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
Total	10690	10690	10690	0	0
Minority	939	939	939	0	0
Over 65	3462	3462	3462	0	0
Disabled	5103	5103	5103	0	0
Poverty	1232	1232	1232	0	0
Lang Iso	838	838	838	0	0
Sing Pnt	634	634	634	0	0

Structures at risk for Category2 Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
SF Res	2454	2454	2454	0	0
Mob Home	1237	1237	1237	0	0
MF Res	434	434	434	0	0
Commercial	487	487	487	0	0
Agriculture	22	22	22	0	0
Gov/Instit	107	107	107	0	0

Loss by DOR Use for Category2 Maxima

	Exposure	Loss	Percent Loss
SF Res	\$479.34 Million	\$18.38 Million	3.8%
Mob Home	\$110.90 Million	\$17.61 Million	15.9%
MF Res	\$69.06 Million	\$2.78 Million	4.0%
Commercial	\$218.63 Million	\$8.30 Million	3.8%
Agriculture	\$192.06 Million	\$5.87 Million	3.1%
Gov/Instit	\$10.03 Million	\$361.32 Thousand	3.6%

Category 3 Hurricane

Pasco Category 3 Impact Summary Peak winds 137.mph, peak water depth 13.8ft.

Category 3 Maxima Damage Summary:

Tax Parcel based Wind Damage:	\$5.91 Billion
DOR based Flood Damage:	\$1.09 Billion
DOR Structures in Flood Zone:	15991
Census based Wind Damage:	\$6.15 Billion
Census based Flood .Damage:	\$637.97 Million
Uninhabitable Housing Units:	8623 5.0% of total HU.

Countywide Population at risk for Category3Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
Total	344765	344765	344765	87474	24638
Minority	22158	22158	22158	3995	870
Over 65	92481	92481	92481	24428	7947
Disabled	158004	158004	158004	39186	14340
Poverty	36201	36201	36201	9108	3197
Lang Iso	28191	28191	28191	11849	11075
Sing Pnt	17965	17965	17965	4649	1240

Countywide Structures at risk for Category3Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
SF Res	97839	97839	97839	22051	9903
Mob Home	27346	27346	27346	3586	2094
MF Res	14051	14051	14051	3721	3048
Commercial	5427	5427	5427	1156	828
Agriculture	3909	3909	3909	446	11
Gov/Instit	1322	1322	1322	165	107

Countywide Loss by DOR Use for Category3Maxima

	Exposure	Loss	Percent Loss
SF Res	\$27.05 Billion	\$3.38 Billion	12.5%
Mob Home	\$2.52 Billion	\$1.01 Billion	40.3%
MF Res	\$2.89 Billion	\$368.83 Million	12.8%
Commercial	\$3.47 Billion	\$440.43 Million	12.7%
Agriculture	\$2.61 Billion	\$302.46 Million	11.6%
Gov/Instit	\$3.55 Billion	\$400.73 Million	11.3%

Category 3 Impact Summary for Unincorporated Areas

Category 3 Maxima Damage Summary:

Tax Parcel based Wind Damage:	\$2.69 Billion
DOR based Flood Damage:	\$691.59 Million
DOR Structures in Flood Zone:	7503
Census based Wind Damage:	\$3.03 Billion
Census based Flood .Damage:	\$420.11 Million
Uninhabitable Housing Units:	3920 5.9% of total HU.

Unincorporated County Population at risk for Category3Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
Total	137698	137698	137698	52584	6717
Minority	7455	7455	7455	2331	230
Over 65	33531	33531	33531	14111	2125
Disabled	59616	59616	59616	22209	4103
Poverty	12888	12888	12888	4644	792
Lang Iso	13585	13585	13585	7046	77
Sing Pnt	6501	6501	6501	2564	353

Unincorporated County Structures at risk for Category3Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
SF Res	33903	33903	33903	7733	4482
Mob Home	14172	14172	14172	1467	912
MF Res	5706	5706	5706	1469	1797
Commercial	1894	1894	1894	377	270
Agriculture	3175	3175	3175	367	5
Gov/Instit	392	392	392	60	37

Unincorporated County Loss by DOR Use for Category3Maxima

	Exposure	Loss	Percent Loss
SF Res	\$11.30 Billion	\$1.41 Billion	12.5%
Mob Home	\$1.38 Billion	\$540.66 Million	39.3%
MF Res	\$1.06 Billion	\$135.64 Million	12.9%
Commercial	\$1.15 Billion	\$142.77 Million	12.4%
Agriculture	\$1.02 Billion	\$124.10 Million	12.2%
Gov/Instit	\$2.97 Billion	\$338.13 Million	11.4%

Dade City Category 3 Impact Summary
Peak winds 113.mph, peak water depth 0.0ft.

Category 3 Maxima Damage Summary:

Tax Parcel based Wind Damage:	\$65.70 Million
DOR based Flood Damage:	\$0.00 dollars
DOR Structures in Flood Zone:	0
Census based Wind Damage:	\$48.24 Million
Census based Flood .Damage:	\$0.00 dollars
Uninhabitable Housing Units:	79 2.8% of total HU.

Population at risk for Category3Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
Total	6231	6231	6231	0	0
Minority	2334	2334	2334	0	0
Over 65	1149	1149	1149	0	0
Disabled	2896	2896	2896	0	0
Poverty	944	944	944	0	0
Lang Iso	137	137	137	0	0
Sing Pnt	484	484	484	0	0

Structures at risk for Category3Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
SF Res	1568	1568	1568	2	0
Mob Home	122	122	122	1	0
MF Res	148	148	148	0	0
Commercial	309	309	309	1	0
Agriculture	71	71	71	0	0
Gov/Instit	112	112	112	0	0

Loss by DOR Use for Category3Maxima

	Exposure	Loss	Percent Loss
SF Res	\$288.37 Million	\$28.39 Million	9.8%
Mob Home	\$7.55 Million	\$2.71 Million	35.9%
MF Res	\$46.35 Million	\$4.59 Million	9.9%
Commercial	\$110.21 Million	\$10.70 Million	9.7%
Agriculture	\$146.60 Million	\$14.39 Million	9.8%
Gov/Instit	\$46.64 Million	\$4.91 Million	10.5%

New Port Richey Category 3 Impact Summary
Peak winds 125.mph, peak water depth 13.0ft.

Category 3 Maxima Damage Summary:

Tax Parcel based Wind Damage:	\$245.85 Million	
DOR based Flood Damage:	\$39.93 Million	
DOR Structures in Flood Zone:	1336	
Census based Wind Damage:	\$227.60 Million	
Census based Flood .Damage:	\$24.63 Million	
Uninhabitable Housing Units:	387	4.6% of total HU.

Population at risk for Category3Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
Total	15685	15685	15685	7165	3871
Minority	805	805	805	300	200
Over 65	4555	4555	4555	1905	1040
Disabled	7978	7978	7978	3479	2191
Poverty	2486	2486	2486	1195	701
Lang Iso	8075	8075	8075	3861	6614
Sing Pnt	1086	1086	1086	504	276

Structures at risk for Category3Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
SF Res	4405	4405	4405	1470	776
Mob Home	510	510	510	157	159
MF Res	1242	1242	1242	330	227
Commercial	498	498	498	185	153
Agriculture	3	3	3	0	1
Gov/Instit	118	118	118	26	20

Loss by DOR Use for Category3Maxima

	Exposure	Loss	Percent Loss
SF Res	\$900.43 Million	\$119.70 Million	13.3%
Mob Home	\$24.16 Million	\$11.63 Million	48.2%
MF Res	\$228.56 Million	\$30.13 Million	13.2%
Commercial	\$337.27 Million	\$49.05 Million	14.5%
Agriculture	\$250.05 Million	\$35.06 Million	14.0%
Gov/Instit	\$2.21 Million	\$284.72 Thousand	12.9%

**Port Richey Category 3 Impact Summary
Peak winds 137.mph, peak water depth 13.1ft.**

Category 3 Maxima Damage Summary:

Tax Parcel based Wind Damage:	\$80.52 Million
DOR based Flood Damage:	\$136.00 Million
DOR Structures in Flood Zone:	1578
Census based Wind Damage:	\$42.77 Million
Census based Flood .Damage:	\$72.33 Million
Uninhabitable Housing Units:	63 3.6% of total HU.

Population at risk for Category3Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
Total	2986	2986	2986	116	2986
Minority	105	105	105	0	105
Over 65	718	718	718	29	718
Disabled	1955	1955	1955	62	1955
Poverty	482	482	482	10	482
Lang Iso	472	472	472	55	472
Sing Pnt	125	125	125	0	125

Structures at risk for Category3Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
SF Res	979	979	979	518	906
Mob Home	62	62	62	29	56
MF Res	433	433	433	278	416
Commercial	192	192	192	99	177
Agriculture	0	0	0	0	0
Gov/Instit	23	23	23	14	23

Loss by DOR Use for Category3Maxima

	Loss	Percent Loss
SF Res	\$45.90 Million	17.4%
Mob Home	\$1.94 Million	54.8%
MF Res	\$16.74 Million	17.6%
Commercial	\$12.49 Million	16.2%
Agriculture	\$3.46 Million	14.6%
Gov/Instit	\$0.00 dollars	NaN %

St. Leo Category 3 Impact Summary
Peak winds 111.mph, peak water depth 0.0ft.

Category 3 MaximaDamage Summary:

Tax Parcel based Wind Damage:	\$6.03 Million
DOR based Flood Damage:	\$0.00 dollars
DOR Structures in Flood Zone:	0
Census based Wind Damage:	\$2.17 Million
Census based Flood .Damage:	\$0.00 dollars
Uninhabitable Housing Units:	0 0.0% of total HU.

Population at risk for Category3Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
Total	609	609	609	0	0
Minority	85	85	85	0	0
Over 65	38	38	38	0	0
Disabled	137	137	137	0	0
Poverty	28	28	28	0	0
Lang Iso	158	158	158	0	0
Sing Pnt	4	4	4	0	0

Structures at risk for Category3Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
SF Res	31	31	31	1	0
Mob Home	7	7	7	0	0
MF Res	2	2	2	0	0
Commercial	8	8	8	0	0
Agriculture	17	17	17	2	0
Gov/Instit	7	7	7	0	0

Loss by DOR Use for Category3Maxima

	Exposure	Loss	Percent Loss
SF Res	\$9.63 Million	\$1.04 Million	10.8%
Mob Home	\$726.29 Thousand	\$199.43 Thousand	27.5%
MF Res	\$3.58 Million	\$224.60 Thousand	6.3%
Commercial	\$2.57 Million	\$186.92 Thousand	7.3%
Agriculture	\$41.63 Million	\$3.61 Million	8.7%
Gov/Instit	\$10.71 Million	\$780.20 Thousand	7.3%

San Antonio Category 3 Impact Summary
Peak winds 123.mph, peak water depth 0.0ft.

Category 3 MaximaDamage Summary:

Tax Parcel based Wind Damage:	\$8.86 Million
DOR based Flood Damage:	\$0.00 dollars
DOR Structures in Flood Zone:	0
Census based Wind Damage:	\$13.97 Million
Census based Flood .Damage:	\$0.00 dollars
Uninhabitable Housing Units:	14 4.9% of total HU.

Population at risk for Category3Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
Total	615	615	615	615	0
Minority	26	26	26	26	0
Over 65	48	48	48	48	0
Disabled	275	275	275	275	0
Poverty	62	62	62	62	0
Lang Iso	98	98	98	29	0
Sing Pnt	27	27	27	27	0

Structures at risk for Category3Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
SF Res	204	204	204	22	0
Mob Home	6	6	6	0	0
MF Res	17	17	17	1	0
Commercial	32	32	32	5	0
Agriculture	41	41	41	2	0
Gov/Instit	11	11	11	3	0

Loss by DOR Use for Category3 Maxima

	Exposure	Loss	Percent Loss
SF Res	\$46.59 Million	\$5.62 Million	12.1%
Mob Home	\$405.79 Thousand	\$171.49 Thousand	42.3%
MF Res	\$3.02 Million	\$353.42 Thousand	11.7%
Commercial	\$6.20 Million	\$786.48 Thousand	12.7%
Agriculture	\$5.47 Million	\$696.80 Thousand	12.7%
Gov/Instit	\$11.69 Million	\$1.23 Million	10.6%

Zephyrhills Category 3 Impact Summary
Peak winds 111.mph, peak water depth 0.0ft.

Category 3 Maxima Damage Summary:

Tax Parcel based Wind Damage:	\$131.54 Million
DOR based Flood Damage:	\$0.00 dollars
DOR Structures in Flood Zone:	0
Census based Wind Damage:	\$113.83 Million
Census based Flood .Damage:	\$0.00 dollars
Uninhabitable Housing Units:	222 3.6% of total HU.

Population at risk for Category3Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
Total	10690	10690	10690	0	0
Minority	939	939	939	0	0
Over 65	3462	3462	3462	0	0
Disabled	5103	5103	5103	0	0
Poverty	1232	1232	1232	0	0
Lang Iso	838	838	838	0	0
Sing Pnt	634	634	634	0	0

Structures at risk for Category3Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
SF Res	2454	2454	2454	8	0
Mob Home	1237	1237	1237	2	0
MF Res	434	434	434	6	0
Commercial	487	487	487	0	0
Agriculture	22	22	22	0	0
Gov/Instit	107	107	107	0	0

Loss by DOR Use for Category3Maxima

	Exposure	Loss	Percent Loss
SF Res	\$479.34 Million	\$47.31 Million	9.9%
Mob Home	\$110.90 Million	\$39.03 Million	35.2%
MF Res	\$69.06 Million	\$7.09 Million	10.3%
Commercial	\$218.63 Million	\$21.80 Million	10.0%
Agriculture	\$192.06 Million	\$15.35 Million	8.0%
Gov/Instit	\$10.03 Million	\$956.40 Thousand	9.5%

Category 4 Hurricane

Pasco Category 4 Impact Summary Peak winds 163.mph, peak water depth 21.0ft.

Category 4 MaximaDamage Summary:

Tax Parcel based Wind Damage:	\$13.43 Billion
DOR based Flood Damage:	\$3.11 Billion
DOR Structures in Flood Zone:	32471
Census based Wind Damage:	\$13.57 Billion
Census based Flood .Damage:	\$1.49 Billion
Uninhabitable Housing Units:	19448 11.2% of total HU.

Countywide Population at risk for Category4Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
Total	344765	344765	344765	338269	65317
Minority	22158	22158	22158	21184	2827
Over 65	92481	92481	92481	91371	22548
Disabled	158004	158004	158004	154844	37637
Poverty	36201	36201	36201	35458	7558
Lang Iso	28191	28191	28191	27952	12108
Sing Pnt	17965	17965	17965	17545	3336

Countywide Structures at risk for Category4Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
SF Res	97839	97839	97839	95728	21980
Mob Home	27346	27346	27346	26525	4054
MF Res	14051	14051	14051	13774	4754
Commercial	5427	5427	5427	5283	1395
Agriculture	3909	3909	3909	3738	24
Gov/Instit	1322	1322	1322	1295	264

Countywide Loss by DOR Use for Category4Maxima

	Exposure	Loss	Percent Loss
SF Res	\$27.05 Billion	\$7.82 Billion	28.9%
Mob Home	\$2.52 Billion	\$2.09 Billion	83.0%
MF Res	\$2.89 Billion	\$843.52 Million	29.2%
Commercial	\$3.47 Billion	\$1.02 Billion	29.4%
Agriculture	\$2.61 Billion	\$712.49 Million	27.3%
Gov/Instit	\$3.55 Billion	\$943.54 Million	26.6%

Category 4 Impact Summary for Unincorporated Areas

Category 4 Maxima Damage Summary:

Tax Parcel based Wind Damage:	\$6.16 Billion
DOR based Flood Damage:	\$1.47 Billion
DOR Structures in Flood Zone:	8916
Census based Wind Damage:	\$6.66 Billion
Census based Flood .Damage:	\$647.00 Million
Uninhabitable Housing Units:	8761 13.2% of total HU.

Unincorporated County Population at risk for Category4Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
Total	137698	137698	137698	133646	42811
Minority	7455	7455	7455	7109	1893
Over 65	33531	33531	33531	32932	15701
Disabled	59616	59616	59616	57588	25273
Poverty	12888	12888	12888	12546	4707
Lang Iso	13585	13585	13585	13585	761
Sing Pnt	6501	6501	6501	6272	2155

Unincorporated County Structures at risk for Category4Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
SF Res	33903	33903	33903	33006	5539
Mob Home	14172	14172	14172	13635	1034
MF Res	5706	5706	5706	5482	1927
Commercial	1894	1894	1894	1818	352
Agriculture	3175	3175	3175	3046	16
Gov/Instit	392	392	392	377	48

Unincorporated County Loss by DOR Use for Category4Maxima

	Exposure	Loss	Percent Loss
SF Res	\$11.30 Billion	\$3.31 Billion	29.3%
Mob Home	\$1.38 Billion	\$1.12 Billion	81.2%
MF Res	\$1.06 Billion	\$312.69 Million	29.6%
Commercial	\$1.15 Billion	\$333.62 Million	29.1%
Agriculture	\$1.02 Billion	\$292.21 Million	28.7%
Gov/Instit	\$2.97 Billion	\$796.69 Million	26.8%

Dade City Category 4 Impact Summary
Peak winds 137.mph, peak water depth 0.0ft.

Category 4 Maxima Damage Summary:

Tax Parcel based Wind Damage: \$159.49 Million
 DOR based Flood Damage: \$0.00 dollars
 DOR Structures in Flood Zone: 0
 Census based Wind Damage: \$117.66 Million
 Census based Flood .Damage: \$0.00 dollars
 Uninhabitable Housing Units: 198 7.0% of total HU.

Population at risk for Category4Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
Total	6231	6231	6231	5779	0
Minority	2334	2334	2334	1890	0
Over 65	1149	1149	1149	1077	0
Disabled	2896	2896	2896	2592	0
Poverty	944	944	944	759	0
Lang Iso	137	137	137	87	0
Sing Pnt	484	484	484	399	0

Structures at risk for Category4Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
SF Res	1568	1568	1568	1558	0
Mob Home	122	122	122	121	0
MF Res	148	148	148	148	0
Commercial	309	309	309	300	0
Agriculture	71	71	71	71	0
Gov/Instit	112	112	112	111	0

Loss by DOR Use for Category4Maxima

	Exposure	Loss	Percent Loss
SF Res	\$288.37 Million	\$69.63 Million	24.1%
Mob Home	\$7.55 Million	\$6.00 Million	79.4%
MF Res	\$46.35 Million	\$11.10 Million	24.0%
Commercial	\$110.21 Million	\$26.12 Million	23.7%
Agriculture	\$146.60 Million	\$34.70 Million	23.7%
Gov/Instit	\$46.64 Million	\$11.94 Million	25.6%

New Port Richey Category 4 Impact Summary
Peak winds 149.mph, peak water depth 20.3ft.

Category 4 Maxima Damage Summary:

Tax Parcel based Wind Damage: \$552.54 Million
DOR based Flood Damage: \$212.26 Million
DOR Structures in Flood Zone: 2668
Census based Wind Damage: \$505.67 Million
Census based Flood .Damage: \$102.19 Million
Uninhabitable Housing Units: 874 10.4% of total HU.

Population at risk for Category4Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
Total	15685	15685	15685	15685	5564
Minority	805	805	805	805	312
Over 65	4555	4555	4555	4555	1476
Disabled	7978	7978	7978	7978	3153
Poverty	2486	2486	2486	2486	956
Lang Iso	8075	8075	8075	8075	6761
Sing Pnt	1086	1086	1086	1086	373

Structures at risk for Category4Maxima

	Total	Hur Wind	Ext Wind	Flooded
SF Res	4405	4405	4405	1546
Mob Home	510	510	510	236
MF Res	1242	1242	1242	481
Commercial	498	498	498	315
Agriculture	3	3	3	1
Gov/Instit	118	118	118	89

Loss by DOR Use for Category4Maxima

	Exposure	Loss	Percent Loss
SF Res	\$900.43 Million	\$269.68 Million	30.0%
Mob Home	\$24.16 Million	\$22.43 Million	92.9%
MF Res	\$228.56 Million	\$68.47 Million	30.0%
Commercial	\$337.27 Million	\$111.59 Million	33.1%
Agriculture	\$250.05 Million	\$79.70 Million	31.9%
Gov/Instit	\$2.21 Million	\$675.07 Thousand	30.5%

Port Richey Category 4 Impact Summary
Peak winds 163.mph, peak water depth 20.2ft.

Category 4 MaximaDamage Summary:

Tax Parcel based Wind Damage: \$171.13 Million
DOR based Flood Damage: \$271.05 Million
DOR Structures in Flood Zone: 1614
Census based Wind Damage: \$95.78 Million
Census based Flood .Damage: \$108.14 Million
Uninhabitable Housing Units: 140 8.0% of total HU.

Population at risk for Category4Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
Total	2986	2986	2986	2986	2986
Minority	105	105	105	105	105
Over 65	718	718	718	718	718
Disabled	1955	1955	1955	1955	1955
Poverty	482	482	482	482	482
Lang Iso	472	472	472	472	472
Sing Pnt	125	125	125	125	125

Structures at risk for Category4Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
SF Res	979	979	979	954	928
Mob Home	62	62	62	61	57
MF Res	433	433	433	430	422
Commercial	192	192	192	185	184
Agriculture	0	0	0	0	0
Gov/Instit	23	23	23	23	23

Loss by DOR Use for Category4Maxima

	Exposure	Loss	Percent Loss
SF Res	\$263.40 Million	\$97.63 Million	37.1%
Mob Home	\$3.54 Million	\$3.29 Million	92.9%
MF Res	\$94.97 Million	\$35.28 Million	37.1%
Commercial	\$77.06 Million	\$27.18 Million	35.3%
Agriculture	\$23.64 Million	\$7.76 Million	32.8%
Gov/Instit	\$0.00 dollars	\$0.00 dollars	NaN %

Town of St. Leo Category 4 Impact Summary
Peak winds 136.mph, peak water depth 0.0ft.

Category 4 Maxima Damage Summary:

Tax Parcel based Wind Damage: \$14.53 Million
DOR based Flood Damage: \$0.00 dollars
DOR Structures in Flood Zone: 0
Census based Wind Damage: \$5.33 Million
Census based Flood .Damage: \$0.00 dollars
Uninhabitable Housing Units: 1 2.3% of total HU.

Population at risk for Category4Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
Total	609	609	609	603	0
Minority	85	85	85	85	0
Over 65	38	38	38	38	0
Disabled	137	137	137	133	0
Poverty	28	28	28	28	0
Lang Iso	158	158	158	131	0
Sing Pnt	4	4	4	2	0

Structures at risk for Category4Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
SF Res	31	31	31	24	0
Mob Home	7	7	7	5	0
MF Res	2	2	2	1	0
Commercial	8	8	8	5	0
Agriculture	17	17	17	9	0
Gov/Instit	7	7	7	5	0

Loss by DOR Use for Category4Maxima

	Exposure	Loss	Percent Loss
SF Res	\$9.63 Million	\$2.41 Million	25.0%
Mob Home	\$726.29 Thousand	\$438.45 Thousand	60.4%
MF Res	\$3.58 Million	\$567.20 Thousand	15.9%
Commercial	\$2.57 Million	\$456.15 Thousand	17.7%
Agriculture	\$41.63 Million	\$8.73 Million	21.0%
Gov/Instit	\$10.71 Million	\$1.93 Million	18.1%

San Antonio Category 4 Impact Summary
Peak winds 147.mph, peak water depth 0.0ft.

Category 4 MaximaDamage Summary:

Tax Parcel based Wind Damage: \$19.70 Million
DOR based Flood Damage: \$0.00 dollars
DOR Structures in Flood Zone: 0
Census based Wind Damage: \$29.71 Million
Census based Flood .Damage: \$0.00 dollars
Uninhabitable Housing Units: 31 10.8% of total HU.

Population at risk for Category4Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
Total	615	615	615	615	0
Minority	26	26	26	26	0
Over 65	48	48	48	48	0
Disabled	275	275	275	275	0
Poverty	62	62	62	62	0
Lang Iso	98	98	98	98	0
Sing Pnt	27	27	27	27	0

Structures at risk for Category4Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
SF Res	204	204	204	196	0
Mob Home	6	6	6	5	0
MF Res	17	17	17	17	0
Commercial	32	32	32	32	0
Agriculture	41	41	41	39	0
Gov/Instit	11	11	11	11	0

Loss by DOR Use for Category4Maxima

	Exposure	Loss	Percent Loss
SF Res	\$46.59 Million	\$12.49 Million	26.8%
Mob Home	\$405.79 Thousand	\$343.59 Thousand	84.7%
MF Res	\$3.02 Million	\$787.57 Thousand	26.1%
Commercial	\$6.20 Million	\$1.75 Million	28.3%
Agriculture	\$5.47 Million	\$1.55 Million	28.4%
Gov/Instit	\$11.69 Million	\$2.77 Million	23.7%

Zephyrhills Category 4 Impact Summary
Peak winds 136.mph, peak water depth 0.0ft.

Category 4 Maxima Damage Summary:

Tax Parcel based Wind Damage: \$313.78 Million
 DOR based Flood Damage: \$0.00 dollars
 DOR Structures in Flood Zone: 0
 Census based Wind Damage: \$276.46 Million
 Census based Flood .Damage: \$0.00 dollars
 Uninhabitable Housing Units: 543 8.8% of total HU.

Population at risk for Category4Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
Total	10690	10690	10690	10070	0
Minority	939	939	939	914	0
Over 65	3462	3462	3462	3227	0
Disabled	5103	5103	5103	4816	0
Poverty	1232	1232	1232	1159	0
Lang Iso	838	838	838	736	0
Sing Pnt	634	634	634	619	0

Structures at risk for Category4Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
SF Res	2454	2454	2454	2354	0
Mob Home	1237	1237	1237	1180	0
MF Res	434	434	434	423	0
Commercial	487	487	487	471	0
Agriculture	22	22	22	19	0
Gov/Instit	107	107	107	105	0

Loss by DOR Use for Category4Maxima

	Exposure	Loss	Percent Loss
SF Res	\$479.34 Million	\$116.94 Million	24.4%
Mob Home	\$110.90 Million	\$86.78 Million	78.3%
MF Res	\$69.06 Million	\$17.41 Million	25.2%
Commercial	\$218.63 Million	\$52.60 Million	24.1%
Agriculture	\$192.06 Million	\$37.68 Million	19.6%
Gov/Instit	\$10.03 Million	\$2.36 Million	23.6%

Pasco County Category 5 Impact Summary
Peak winds 190.mph, peak water depth 21.8ft.

Category 5 Maxima Damage Summary:

Tax Parcel based Wind Damage:	\$23.21 Billion
DOR based Flood Damage:	\$3.39 Billion
DOR Structures in Flood Zone:	34443
Census based Wind Damage:	\$22.00 Billion
Census based Flood .Damage:	\$1.57 Billion
Uninhabitable Housing Units:	34753 20.0% of total HU.

Countywide Population at risk for Category5Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
Total	344765	344765	344765	344765	68049
Minority	22158	22158	22158	22158	2970
Over 65	92481	92481	92481	92481	23062
Disabled	158004	158004	158004	158004	38636
Poverty	36201	36201	36201	36201	7865
Lang Iso	28191	28191	28191	28191	12165
Sing Pnt	17965	17965	17965	17965	3546

Countywide Structures at risk for Category5Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
SF Res	97839	97839	97839	97839	23492
Mob Home	27346	27346	27346	27346	4241
MF Res	14051	14051	14051	14051	4940
Commercial	5427	5427	5427	5427	1476
Agriculture	3909	3909	3909	3909	27
Gov/Instit	1322	1322	1322	1322	267

Countywide Loss by DOR Use for Category5Maxima

	Exposure	Loss	Percent Loss
SF Res	\$27.05 Billion	\$14.28 Billion	52.8%
Mob Home	\$2.52 Billion	\$2.51 Billion	99.6%
MF Res	\$2.89 Billion	\$1.54 Billion	53.5%
Commercial	\$3.47 Billion	\$1.87 Billion	53.9%
Agriculture	\$2.61 Billion	\$1.31 Billion	50.3%
Gov/Instit	\$3.55 Billion	\$1.70 Billion	48.0%

Impact Summary for Unincorporated Areas

Category 5 Maxima Damage Summary:

Tax Parcel based Wind Damage:	\$10.56 Billion
DOR based Flood Damage:	\$1.55 Billion
DOR Structures in Flood Zone:	9115
Census based Wind Damage:	\$10.59 Billion
Census based Flood .Damage:	\$647.91 Million
Uninhabitable Housing Units:	15591 23.4% of total HU.

Unincorporated County Population at risk for Category5Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
Total	137698	137698	137698	137698	44236
Minority	7455	7455	7455	7455	1976
Over 65	33531	33531	33531	33531	16121
Disabled	59616	59616	59616	59616	25845
Poverty	12888	12888	12888	12888	4816
Lang Iso	13585	13585	13585	13585	778
Sing Pnt	6501	6501	6501	6501	2231

Unincorporated County Structures at risk for Category5Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
SF Res	33903	33903	33903	33903	5717
Mob Home	14172	14172	14172	14172	1039
MF Res	5706	5706	5706	5706	1938
Commercial	1894	1894	1894	1894	354
Agriculture	3175	3175	3175	3175	19
Gov/Instit	392	392	392	392	48

Unincorporated County Loss by DOR Use for Category5Maxima

	Exposure	Loss	Percent Loss
SF Res	\$11.30 Billion	\$6.05 Billion	53.5%
Mob Home	\$1.38 Billion	\$1.37 Billion	99.4%
MF Res	\$1.06 Billion	\$565.98 Million	53.6%
Commercial	\$1.15 Billion	\$612.00 Million	53.3%
Agriculture	\$1.02 Billion	\$524.28 Million	51.5%
Gov/Instit	\$2.97 Billion	\$1.44 Billion	48.4%

Dade City Category 5 Impact Summary
Peak winds 157.mph, peak water depth 0.0ft.

Category 5 Maxima Damage Summary:

Tax Parcel based Wind Damage:	\$298.16 Million	
DOR based Flood Damage:	\$0.00 dollars	
DOR Structures in Flood Zone:	0	
Census based Wind Damage:	\$221.16 Million	
Census based Flood .Damage:	\$0.00 dollars	
Uninhabitable Housing Units:	379	13.4% of total HU.

Population at risk for Category5Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
Total	6231	6231	6231	6231	0
Minority	2334	2334	2334	2334	0
Over 65	1149	1149	1149	1149	0
Disabled	2896	2896	2896	2896	0
Poverty	944	944	944	944	0
Lang Iso	137	137	137	137	0
Sing Pnt	484	484	484	484	0

Structures at risk for Category5Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
SF Res	1568	1568	1568	1568	0
Mob Home	122	122	122	122	0
MF Res	148	148	148	148	0
Commercial	309	309	309	309	0
Agriculture	71	71	71	71	0
Gov/Instit	112	112	112	112	0

Loss by DOR Use for Category5Maxima

	Exposure	Loss	Percent Loss
SF Res	\$288.37 Million	\$132.49 Million	45.9%
Mob Home	\$7.55 Million	\$7.55 Million	100.0%
MF Res	\$46.35 Million	\$21.11 Million	45.5%
Commercial	\$110.21 Million	\$49.30 Million	44.7%
Agriculture	\$146.60 Million	\$64.78 Million	44.2%
Gov/Instit	\$46.64 Million	\$22.93 Million	49.2%

New Port Richey Category 5 Impact Summary
Peak winds 176.mph, peak water depth 21.3ft.

Category 5 Maxima Damage Summary:

Tax Parcel based Wind Damage:	\$1.01 Billion	
DOR based Flood Damage:	\$241.08 Million	
DOR Structures in Flood Zone:	2905	
Census based Wind Damage:	\$882.97 Million	
Census based Flood .Damage:	\$112.56 Million	
Uninhabitable Housing Units:	1584	18.8% of total HU.

Population at risk for Category 5 Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
Total	15685	15685	15685	15685	6871
Minority	805	805	805	4555	372
Over 65	4555	4555	7978	7978	1570
Disabled	7978	7978	2486	2486	3580
Poverty	2486	2486	8075	8075	1154
Lang Iso	8075	8075	1086	1086	6801
Sing Pnt	1086	1086			507

Structures at risk for Category 5 Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
SF Res	4405	4405	4405	4405	1694
Mob Home	510	510	510	510	251
MF Res	1242	1242	1242	1242	527
Commercial	498	498	498	498	342
Agriculture	3	3	3	3	1
Gov/Instit	118	118	118	118	90

Loss by DOR Use for Category 5 Maxima

	Exposure	Loss	Percent Loss
SF Res	\$900.43 Million	\$499.58 Million	55.5%
Mob Home	\$24.16 Million	\$24.16 Million	100.0%
MF Res	\$228.56 Million	\$127.40 Million	55.7%
Commercial	\$337.27 Million	\$207.71 Million	61.6%
Agriculture	\$250.05 Million	\$145.01 Million	58.0%
Gov/Instit	\$2.21 Million	\$1.25 Million	56.3%

Port Richey Category 5 Impact Summary
Peak winds 190.mph, peak water depth 20.8ft.

Category 5 MaximaDamage Summary:

Tax Parcel based Wind Damage: \$318.25 Million
DOR based Flood Damage: \$283.31 Million
DOR Structures in Flood Zone: 1614
Census based Wind Damage: \$182.09 Million
Census based Flood .Damage: \$108.14 Million
Uninhabitable Housing Units: 272 15.6% of total HU.

Population at risk for Category5Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
Total	2986	2986	2986	2986	2986
Minority	105	105	105	105	105
Over 65	718	718	718	718	718
Disabled	1955	1955	1955	1955	1955
Poverty	482	482	482	482	482
Lang Iso	472	472	472	472	472
Sing Pnt	125	125	125	125	125

Structures at risk for Category5Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
SF Res	979	979	979	979	928
Mob Home	62	62	62	62	57
MF Res	433	433	433	433	422
Commercial	192	192	192	192	184
Agriculture	0	0	0	0	0
Gov/Instit	23	23	23	23	23

Loss by DOR Use for Category5Maxima

	Exposure	Loss	Percent Loss
SF Res	\$263.40 Million	\$183.01 Million	69.5%
Mob Home	\$3.54 Million	\$3.51 Million	99.2%
MF Res	\$94.97 Million	\$66.20 Million	69.7%
Commercial	\$77.06 Million	\$50.75 Million	65.9%
Agriculture	\$23.64 Million	\$14.77 Million	62.5%
Gov/Instit	\$0.00 dollars	\$0.00 dollars	NaN %

Town of St. Leo Category 5 Impact Summary
Peak winds 163.mph, peak water depth 0.0ft.

Category 5 MaximaDamage Summary:

Tax Parcel based Wind Damage: \$28.77 Million
DOR based Flood Damage: \$0.00 dollars
DOR Structures in Flood Zone: 0
Census based Wind Damage: \$9.91 Million
Census based Flood .Damage: \$0.00 dollars
Uninhabitable Housing Units: 3 6.8% of total HU.

Population at risk for Category5Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
Total	609	609	609	609	0
Minority	85	85	85	85	0
Over 65	38	38	38	38	0
Disabled	137	137	137	137	0
Poverty	28	28	28	28	0
Lang Iso	158	158	158	158	0
Sing Pnt	4	4	4	4	0

Structures at risk for Category5Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
SF Res	31	31	31	31	0
Mob Home	7	7	7	7	0
MF Res	2	2	2	2	0
Commercial	8	8	8	8	0
Agriculture	17	17	17	17	0
Gov/Instit	7	7	7	7	0

Loss by DOR Use for Category5Maxima

	Exposure	Loss	Percent Loss
SF Res	\$9.63 Million	\$4.72 Million	49.0%
Mob Home	\$726.29 Thousand	\$707.59 Thousand	97.4%
MF Res	\$3.58 Million	\$1.08 Million	30.1%
Commercial	\$2.57 Million	\$876.29 Thousand	34.1%
Agriculture	\$41.63 Million	\$17.59 Million	42.2%
Gov/Instit	\$10.71 Million	\$3.80 Million	35.5%

San Antonio Category 5 Impact Summary
Peak winds 170.mph, peak water depth 0.0ft.

Category 5 Maxima Damage Summary:

Tax Parcel based Wind Damage:	\$37.33 Million
DOR based Flood Damage:	\$0.00 dollars
DOR Structures in Flood Zone:	0
Census based Wind Damage:	\$52.91 Million
Census based Flood .Damage:	\$0.00 dollars
Uninhabitable Housing Units:	56 19.6% of total HU.

Population at risk for Category5Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
Total	615	615	615	615	0
Minority	26	26	26	26	0
Over 65	48	48	48	48	0
Disabled	275	275	275	275	0
Poverty	62	62	62	62	0
Lang Iso	98	98	98	98	0
Sing Pnt	27	27	27	27	0

Structures at risk for Category5Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
SF Res	204	204	204	204	0
Mob Home	6	6	6	6	0
MF Res	17	17	17	17	0
Commercial	32	32	32	32	0
Agriculture	41	41	41	41	0
Gov/Instit	11	11	11	11	0

Loss by DOR Use for Category5Maxima

	Exposure	Loss	Percent Loss
SF Res	\$46.59 Million	\$23.78 Million	51.0%
Mob Home	\$405.79 Thousand	\$402.34 Thousand	99.1%
MF Res	\$3.02 Million	\$1.49 Million	49.3%
Commercial	\$6.20 Million	\$3.31 Million	53.3%
Agriculture	\$5.47 Million	\$3.02 Million	55.3%
Gov/Instit	\$11.69 Million	\$5.33 Million	45.5%

Zephyrhills Category 5 Impact Summary
Peak winds 157.mph, peak water depth 0.0ft.

Category 5 Maxima Damage Summary:

Tax Parcel based Wind Damage:	\$536.25 Million	
DOR based Flood Damage:	\$0.00 dollars	
DOR Structures in Flood Zone:	0	
Census based Wind Damage:	\$480.56 Million	
Census based Flood .Damage:	\$0.00 dollars	
Uninhabitable Housing Units:	990	16.1% of total HU.

Population at risk for Category5Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
Total	10690	10690	10690	10690	0
Minority	939	939	939	939	0
Over 65	3462	3462	3462	3462	0
Disabled	5103	5103	5103	5103	0
Poverty	1232	1232	1232	1232	0
Lang Iso	838	838	838	838	0
Sing Pnt	634	634	634	634	0

Structures at risk for Category5Maxima

	Total	TS Wind	Hur Wind	Ext Wind	Flooded
SF Res	2454	2454	2454	2454	0
Mob Home	1237	1237	1237	1237	0
MF Res	434	434	434	434	0
Commercial	487	487	487	487	0
Agriculture	22	22	22	22	0
Gov/Instit	107	107	107	107	0

Loss by DOR Use for Category5Maxima

	Exposure	Loss	Percent Loss
SF Res	\$479.34 Million	\$215.16 Million	44.9%
Mob Home	\$110.90 Million	\$110.34 Million	99.5%
MF Res	\$69.06 Million	\$32.39 Million	46.9%
Commercial	\$218.63 Million	\$99.81 Million	45.7%
Agriculture	\$192.06 Million	\$74.13 Million	38.6%
Gov/Instit	\$10.03 Million	\$4.41 Million	44.0%

Pasco USGS 50 Year Earthquake Impact Summary

The USGS 50 year 10 earthquake risk peak ground acceleration (PGA) value was used to create four zones:

- 0.01g Almost none
- 0.01g Minimal
- 0.02g Very low
- 0.03g Low

Population at risk for USGS 50 Year Earthquake

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
ext. low	263433	12878	70206	121589	26564	23369	13761
very low	81332	9280	22275	36415	9637	4822	4204
Low	0	0	0	0	0	0	0
medium	0	0	0	0	0	0	0

Structures at risk for USGS 50 Year Earthquake

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
ext. low	117172	83883	15086	12597	3658	900	1048
very low	32722	13956	12260	1454	1769	422	2861
low	0	0	0	0	0	0	0
medium	0	0	0	0	0	0	0

Value of Structures by DOR Use for USGS 50 Year Earthquake

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
ext. low	\$33.30 BI	\$23.37 BI	\$1.26 BI	\$2.58 BI	\$2.66 BI	\$1.98 BI	\$1.45 BI
very low	\$8.91 BI	\$3.68 BI	\$1.26 BI	\$305.66 MI	\$801.67 MI	\$756.89 MI	\$2.10 BI
low	\$1.86 BI	\$0.00	\$0.00	\$0.00	\$1.86 BI	\$0.00	\$0.00
medium	\$38.93 TH	\$0.00	\$0.00	\$0.00	\$38.93 TH	\$0.00	\$0.00

Pasco Unincorporated Areas Impact Summary USGS 50 Year Earthquake

Structures at risk for USGS 50 Year Earthquake

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
ext. low	244762	11968	64933	111656	23596	14822	12550
very low	63187	5896	17578	28004	7371	3591	3055
low	0	0	0	0	0	0	0
medium	0	0	0	0	0	0	0

Population at risk for USGS 50 Year Earthquake

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
ext. low	108733	78523	14512	10926	2972	757	1043
very low	25483	9837	10933	872	935	196	2710
low	0	0	0	0	0	0	0
medium	0	0	0	0	0	0	0

Value of Structures by DOR Use for USGS 50 Year Earthquake

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
ext. low	\$30.99 BI	\$22.22 BI	\$1.23 BI	\$2.26 BI	\$2.25 BI	\$1.60 BI	\$1.43 BI
very low	\$7.04 BI	\$2.88 BI	\$1.14 BI	\$185.64 MI	\$466.08 MI	\$349.85 MI	\$2.02 BI
low	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
medium	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Dade City USGS 50 Year Earthquake Impact Summary

Structures at risk for USGS 50 Year Earthquake

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
ext. low	0	0	0	0	0	0	0
very low	6231	2334	1149	2896	944	137	484
low	0	0	0	0	0	0	0
medium	0	0	0	0	0	0	0

Population at risk for USGS 50Year Earthquake

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
ext. low	0	0	0	0	0	0	0
very low	2330	1568	122	148	309	112	71
low	0	0	0	0	0	0	0
medium	0	0	0	0	0	0	0

Value of Structures by DOR Use for USGS 50 Year Earthquake

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
ext. low	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
very low	\$645.71 MI	\$288.37 MI	\$7.55 MI	\$46.35 MI	\$110.21 MI	\$146.60 MI	\$46.64 MI
low	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
medium	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

New Port Richey USGS 50 Year Earthquake Impact Summary

Structures at risk for USGS 50 Year Earthquake

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
ext. low	15685	805	4555	7978	2486	8075	1086
very low	0	0	0	0	0	0	0
low	0	0	0	0	0	0	0
medium	0	0	0	0	0	0	0

Population at risk for USGS 50 Year Earthquake

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
ext. low	6776	4405	510	1242	498	118	3
very low	0	0	0	0	0	0	0
low	0	0	0	0	0	0	0
medium	0	0	0	0	0	0	0

Value of Structures by DOR Use for USGS 50 Year Earthquake

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
ext. low	\$1.74 BI	\$900.43 MI	\$24.16 MI	\$228.56 MI	\$337.27 MI	\$250.05 MI	\$2.21 MI
very low	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
low	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
medium	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Port Richey USGS 50 Year Earthquake Impact Summary

Structures at risk for USGS 50 Year Earthquake

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
ext. low	2986	105	718	1955	482	472	125
very low	0	0	0	0	0	0	0
low	0	0	0	0	0	0	0
medium	0	0	0	0	0	0	0

Population at risk for USGS 50 Year Earthquake

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
ext. low	1627	935	60	424	185	23	0
very low	62	44	2	9	7	0	0
low	0	0	0	0	0	0	0
medium	0	0	0	0	0	0	0

Value of Structures by DOR Use for USGS 50 Year Earthquake

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
ext. low	\$448.65 MI	\$254.33 MI	\$3.35 MI	\$93.01 MI	\$74.32 MI	\$23.64 MI	\$0.00
very low	\$13.97 MI	\$9.07 MI	\$189.97 TH	\$1.96 MI	\$2.75 MI	\$0.00	\$0.00
low	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
medium	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Town of St. Leo USGS 50 Year Earthquake Impact Summary

Structures at risk for USGS 50 Year Earthquake

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
ext. low	0	0	0	0	0	0	0
very low	609	85	38	137	28	158	4
low	0	0	0	0	0	0	0
medium	0	0	0	0	0	0	0

Population at risk for USGS 50 Year Earthquake

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
ext. low	0	0	0	0	0	0	0
very low	72	31	7	2	8	7	17
low	0	0	0	0	0	0	0
medium	0	0	0	0	0	0	0

Value of Structures by DOR Use for USGS 50 Year Earthquake

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
ext. low	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
very low	\$68.85 MI	\$9.63 MI	\$726.29 TH	\$3.58 MI	\$2.57 MI	\$41.63 MI	\$10.71 MI
low	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
medium	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

San Antonio USGS 50 Year Earthquake Impact Summary

Structures at risk for USGS 50 Year Earthquake

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
ext. low	0	0	0	0	0	0	0
very low	615	26	48	275	62	98	27
low	0	0	0	0	0	0	0
medium	0	0	0	0	0	0	0

Population at risk for USGS 50 Year Earthquake

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
ext. low	0	0	0	0	0	0	0
very low	311	204	6	17	32	11	41
low	0	0	0	0	0	0	0
medium	0	0	0	0	0	0	0

Value of Structures by DOR Use for USGS 50 Year Earthquake

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
ext. low	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
very low	\$73.37 MI	\$46.59 MI	\$405.79 TH	\$3.02 MI	\$6.20 MI	\$5.47 MI	\$11.69 MI
low	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
medium	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Zephyrhills USGS 50 Year Earthquake Impact Summary

Structures at risk for USGS 50 Year Earthquake

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
ext. low	0	0	0	0	0	0	0
very low	10690	939	3462	5103	1232	838	634
low	0	0	0	0	0	0	0
medium	0	0	0	0	0	0	0

Population at risk for USGS 50 Year Earthquake

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
ext. low	0	0	0	0	0	0	0
very low	4741	2454	1237	434	487	107	22
low	0	0	0	0	0	0	0
medium	0	0	0	0	0	0	0

Value of Structures by DOR Use for USGS 50 Year Earthquake

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
ext. low	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
very low	\$1.08 BI	\$479.34 MI	\$110.90 MI	\$69.06 MI	\$218.63 MI	\$192.06 MI	\$10.03 MI
low	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
medium	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Sinkholes

Data Notes for KAC Sinkhole Risks

This variable contains a general assessment of the potential of the site for sinkhole development. Sinkhole potential was computed as follows. Sinkhole potential was determined according to points assigned to each 90m grid cell in the state. Three classes of points were assigned, for distance to historic sinkholes, geology, and soils:

2 points if cell was within 2000m of an existing sinkhole;

1 point if cell between 2000m and 5000m of an existing sinkhole;

1 point if the cell was in the same USGS surface geologic unit as an existing sinkhole;

1 point if the cell was in the same NRCS soil unit as an existing sinkhole.

Thus, each cell received an ultimate value from 0 to 4:

0: Very Low risk

1: low risk

2: moderate risk

3: high risk 4very high risk. This chapter contains notes on the data sources, how the population is segmented in the reports, and some basic notes on how loss estimates were calculated.

1.1 Data Sources

This document presents population at risk, housing, and damage estimates based on Census 2000 (U.S. Census Bureau, 2000 Census of Population and Housing, Summary File3: Technical Documentation, 2002.) Tax records from the same time frame (2000) were obtained from the Florida Department of Revenue. All other data (topography, land cover, historical hurricane activity) is from Spring 2004. The analysis is at the level of the census block group (BG). Each BG is treated as a point. The relevant hazard data such as wind and water levels were extracted from the TAOS output files and processed by the automatic report generator.

KAC Sinkhole Risks Hazards for Pasco

Population at risk for KAC Sinkhole Risk

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
Low	0	0	0	0	0	0	0
Medium	168356	11513	39776	73565	16511	15662	8313
High	83667	4873	25115	40426	9203	6620	4302
Very High	45518	2809	14174	22137	5256	888	2604
Extreme	38441	2305	12004	18469	4493	1058	2385
Adjacent	0	0	0	0	0	0	0

Structures at risk for KAC Sinkhole Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Low	329	143	120	5	1	4	56
Medium	68363	39575	15522	6794	2463	817	3192
High	35231	23903	5659	3733	1409	274	253
Very High	25186	18414	3503	2130	879	120	140
Extreme	15649	12632	1661	761	450	72	73
Adjacent	711	588	72	34	14	1	2

Value of Structures by DOR Use for KAC Sinkhole Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Low	\$213.72 MI	\$47.12 MI	\$16.55 MI	\$18.01 TH	\$37.50 TH	\$101.76 MI	\$48.24 MI
Medium	\$21.47 BI	\$12.84 BI	\$1.50 BI	\$1.38 BI	\$1.34 BI	\$1.46 BI	\$2.95 BI
High	\$11.20 BI	\$6.23 BI	\$472.29 MI	\$823.89 MI	\$2.75 BI	\$739.79 MI	\$184.01 MI
Very High	\$5.91 BI	\$4.23 BI	\$299.29 MI	\$437.62 MI	\$583.55 MI	\$238.75 MI	\$116.54 MI
Extreme	\$4.55 BI	\$2.78 BI	\$145.05 MI	\$145.96 MI	\$1.29 BI	\$107.82 MI	\$89.49 MI
Adjacent	\$268.53 MI	\$113.29 MI	\$6.99 MI	\$4.76 MI	\$141.37 MI	\$54.37 TH	\$2.06 MI

KAC Sinkhole Risks for PASCO Unincorporated Areas

Population at risk for KAC Sinkhole Risk

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
Low	0	0	0	0	0	0	0
Medium	150919	9650	34429	63941	14009	7769	7324
High	71067	3749	22011	34469	7480	5253	3428
Very High	42079	1703	13281	20610	4713	765	2374
Extreme	35101	2104	11378	17233	4027	844	2118
Adjacent	0	0	0	0	0	0	0

Structures at risk for KAC Sinkhole Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Low	329	143	120	5	1	4	56
Medium	60523	35117	14349	5747	1636	589	3085
High	30815	21222	5102	3120	967	165	239
Very High	22787	16683	3389	1798	716	96	105
Extreme	15168	12298	1626	694	409	68	73
Adjacent	707	587	71	33	13	1	2

Value of Structures by DOR Use for KAC Sinkhole Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Low	\$113.64 MI	\$47.12 MI	\$16.55 MI	\$18.01 TH	\$37.50 TH	\$1.68 MI	\$48.24 MI
Medium	\$19.46 BI	\$11.91 BI	\$1.41 BI	\$1.19 BI	\$981.01 MI	\$1.09 BI	\$2.88 BI
High	\$8.29 BI	\$5.71 BI	\$426.94 MI	\$704.15 MI	\$718.96 MI	\$545.14 MI	\$179.40 MI
Very High	\$5.21 BI	\$3.87 BI	\$292.23 MI	\$364.78 MI	\$445.43 MI	\$145.39 MI	\$89.88 MI
Extreme	\$3.62 BI	\$2.71 BI	\$143.14 MI	\$123.44 MI	\$464.81 MI	\$87.30 MI	\$89.49 MI
Adjacent	\$133.80 MI	\$113.18 MI	\$6.97 MI	\$4.49 MI	\$7.04 MI	\$54.37 TH	\$2.06 MI

KAC Sinkhole Risks for Dade City

Population at risk for KAC Sinkhole Risk

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
Low	0	0	0	0	0	0	0
Medium	1313	724	414	1005	271	137	148
High	3337	547	638	1150	365	0	159
Very High	1581	1063	97	741	308	0	177
Extreme	0	0	0	0	0	0	0
Adjacent	0	0	0	0	0	0	0

Structures at risk for KAC Sinkhole Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Low	215	138	45	19	2	11	0
Medium	1053	659	54	57	180	74	29
High	694	506	17	46	95	20	10
Very High	316	225	5	21	28	5	32
Extreme	52	40	1	5	4	2	0
Adjacent	0	0	0	0	0	0	0

Value of Structures by DOR Use for KAC Sinkhole Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Low	\$34.72 MI	\$20.12 MI	\$2.60 MI	\$1.98 MI	\$2.02 MI	\$7.99 MI	\$0.00
Medium	\$268.66 MI	\$106.15 MI	\$3.56 MI	\$10.83 MI	\$56.30 MI	\$74.18 MI	\$17.63 MI
High	\$182.13 MI	\$95.80 MI	\$1.15 MI	\$26.85 MI	\$30.31 MI	\$24.91 MI	\$3.11 MI
Very High	\$140.63 MI	\$56.72 MI	\$169.59 TH	\$5.42 MI	\$21.14 MI	\$31.27 MI	\$25.91 MI
Extreme	\$19.57 MI	\$9.56 MI	\$69.80 TH	\$1.27 MI	\$437.19 TH	\$8.24 MI	\$0.00
Adjacent	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

KAC Sinkhole Risks for New Port Richey

Population at risk for KAC Sinkhole Risk

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
Low	0	0	0	0	0	0	0
Medium	3365	107	1282	2205	649	6736	232
High	7122	454	1851	3751	1136	1002	534
Very High	1858	43	796	786	235	123	53
Extreme	3340	201	626	1236	466	214	267
Adjacent	0	0	0	0	0	0	0

Structures at risk for KAC Sinkhole Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Low	0	0	0	0	0	0	0
Medium	1497	874	130	351	119	22	1
High	2830	1759	270	513	209	77	2
Very High	1898	1393	80	290	119	16	0
Extreme	381	258	26	62	33	2	0
Adjacent	4	1	1	1	1	0	0

Value of Structures by DOR Use for KAC Sinkhole Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Low	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Medium	\$317.70 MI	\$185.04 MI	\$4.92 MI	\$53.20 MI	\$55.20 MI	\$17.56 MI	\$1.78 MI
High	\$713.96 MI	\$351.06 MI	\$13.73 MI	\$85.07 MI	\$102.91 MI	\$160.74 MI	\$434.38 TH
Very High	\$523.74 MI	\$284.22 MI	\$4.14 MI	\$63.62 MI	\$112.30 MI	\$59.47 MI	\$0.00
Extreme	\$132.57 MI	\$47.55 MI	\$1.19 MI	\$21.26 MI	\$50.30 MI	\$12.28 MI	\$0.00
Adjacent	\$406.22 TH	\$106.04 TH	\$20.77 TH	\$270.11 TH	\$9.29 TH	\$0.00	\$0.00

KAC Sinkhole Risks for Port Richey

Population at risk for KAC Sinkhole Risk

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
Low	0	0	0	0	0	0	0
Medium	2986	105	718	1955	482	291	125
High	0	0	0	0	0	0	0
Very High	0	0	0	0	0	0	0
Extreme	0	0	0	0	0	0	0
Adjacent	0	0	0	0	0	0	0

Structures at risk for KAC Sinkhole Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Low	62	44	2	9	7	0	0
Medium	979	578	38	255	97	11	0
High	202	117	8	17	52	8	0
Very High	79	61	5	5	7	1	0
Extreme	26	26	0	0	0	0	0
Adjacent	0	0	0	0	0	0	0

Value of Structures by DOR Use for KAC Sinkhole Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Low	\$13.97 MI	\$9.07 MI	\$189.97 TH	\$1.96 MI	\$2.75 MI	\$0.00	\$0.00
Medium	\$267.04 MI	\$156.71 MI	\$2.05 MI	\$55.20 MI	\$40.64 MI	\$12.43 MI	\$0.00
High	\$57.47 MI	\$28.14 MI	\$318.40 TH	\$2.49 MI	\$20.71 MI	\$5.81 MI	\$0.00
Very High	\$15.78 MI	\$11.37 MI	\$443.95 TH	\$907.68 TH	\$2.32 MI	\$739.96 TH	\$0.00
Extreme	\$7.03 MI	\$7.03 MI	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Adjacent	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

KAC Sinkhole Risks for Town of St. Leo

Population at risk for KAC Sinkhole Risk

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
Low	0	0	0	0	0	0	0
Medium	609	85	38	137	28	158	4
High	0	0	0	0	0	0	0
Very High	0	0	0	0	0	0	0
Extreme	0	0	0	0	0	0	0
Adjacent	0	0	0	0	0	0	0

Structures at risk for KAC Sinkhole Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Low	0	0	0	0	0	0	0
Medium	72	31	7	2	8	7	17
High	0	0	0	0	0	0	0
Very High	0	0	0	0	0	0	0
Extreme	0	0	0	0	0	0	0
Adjacent	0	0	0	0	0	0	0

Value of Structures by DOR Use for KAC Sinkhole Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Low	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Medium	\$68.85 MI	\$9.63 MI	\$726.29 TH	\$3.58 MI	\$2.57 MI	\$41.63 MI	\$10.71 MI
High	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Very High	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Extreme	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Adjacent	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

KAC Sinkhole Risks for San Antonio

Population at risk for KAC Sinkhole Risk

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
Low	0	0	0	0	0	0	0
Medium	615	26	48	275	62	98	27
High	0	0	0	0	0	0	0
Very High	0	0	0	0	0	0	0
Extreme	0	0	0	0	0	0	0
Adjacent	0	0	0	0	0	0	0

Structures at risk for KAC Sinkhole Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Low	0	0	0	0	0	0	0
Medium	311	204	6	17	32	11	41
High	0	0	0	0	0	0	0
Very High	0	0	0	0	0	0	0
Extreme	0	0	0	0	0	0	0
Adjacent	0	0	0	0	0	0	0

Value of Structures by DOR Use for KAC Sinkhole Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Low	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Medium	\$73.37 MI	\$46.59 MI	\$405.79 TH	\$3.02 MI	\$6.20 MI	\$5.47 MI	\$11.69 MI
High	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Very High	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Extreme	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Adjacent	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

KAC Sinkhole Risks for Zephyrhills

Population at risk for KAC Sinkhole Risk

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
Low	0	0	0	0	0	0	0
Medium	8549	816	2847	4047	1010	473	453
High	2141	123	615	1056	222	365	181
Very High	0	0	0	0	0	0	0
Extreme	0	0	0	0	0	0	0
Adjacent	0	0	0	0	0	0	0

Structures at risk for KAC Sinkhole Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Low	0	0	0	0	0	0	0
Medium	3895	2094	934	360	388	102	17
High	688	298	262	37	86	3	2
Very High	106	52	24	16	9	2	3
Extreme	22	10	8	0	4	0	0
Adjacent	0	0	0	0	0	0	0

Value of Structures by DOR Use for KAC Sinkhole Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Low	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Medium	\$957.96 MI	\$426.87 MI	\$76.99 MI	\$60.70 MI	\$198.20 MI	\$186.99 MI	\$8.21 MI
High	\$100.30 MI	\$42.94 MI	\$30.15 MI	\$5.32 MI	\$17.63 MI	\$3.19 MI	\$1.07 MI
Very High	\$18.21 MI	\$8.07 MI	\$2.30 MI	\$2.89 MI	\$2.32 MI	\$1.88 MI	\$750.17 TH
Extreme	\$2.58 MI	\$1.46 MI	\$642.05 TH	\$0.00	\$478.74 TH	\$0.00	\$0.00
Adjacent	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Severe Storm Risks

Data Notes for Severe Storm Risks

The National Weather Service is able to determine whether damage was caused by a tornado or straight line winds from a severe storm. Therefore, Severe storms and Tornadoes were separated in this Appendix. This volume describes the threat of damage from severe storms, also referred to as thunderstorms. The threat is defined in terms of the chances that a thunderstorm or lightning will cause economic damage or loss over \$50. This probability is in five categories: 1 in 25 1 in 50 1 in 100 1 in 200 1 in 500

1.1 Data Sources

This document presents population at risk, housing, and damage estimates based on Census 2000 (U.S. Census Bureau, 2000 Census of Population and Housing, Summary File3: Technical Documentation, 2002.) Tax records from the same time frame (2000) were obtained from the Florida Department of Revenue. All other data (topography, land cover, historical hurricane activity) is from Spring 2004. The analysis is at the level of the census block group (BG). Each BG is treated as a point. The relevant hazard data such as wind and water levels were extracted from the TAOS output files.

1.2 Department of Revenue Tax Record notes

The 2000 Department of Revenue Tax Records were used to create an exposure database for use in these analyses.

1.2.1 Georeferencing

A three stage process was used for georeferencing the tax data. Stage one attempted an address match against the Census TIGER file road network. Stage one georeferencing was successful in 70% of cases. Stage two attempted a partial address match, using both zip code and the Public Land Survey System (PLSS) as supplemental data. Stage two georeferencing matched an additional 15% of locations. Stage three, which matched the final 15% of primarily rural locations, used the PLSS data, zip code, and satellite derived and cover to allocate these remaining locations to built locations in the designated Township/Range/Section grid cell. In urban counties the percentage of address matches (Stages one and two) was 90% or better; in a few rural areas the match rate was as low as 60%.

Census Designated Places (CDP) were used for sub-county regions to insure consistency with other Census based products.

Severe Storm Risks Hazards for Pasco

KAC Severe Storm Damage Risk

Population at risk for KAC Severe Storm Damage Risk

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
V. High (25)	0	0	0	0	0	0	0
High (50)	344765	22158	92481	158004	36201	28191	17965
Medium (100)	0	0	0	0	0	0	0
Low (200)	0	0	0	0	0	0	0
V. Low (500)	0	0	0	0	0	0	0

Structures at risk for KAC Severe storm Damage Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
V. High (25)	0	0	0	0	0	0	0
High (50)	149893	97838	27346	14051	5427	1322	3909
Medium (100)	1	1	0	0	0	0	0
Low (200)	0	0	0	0	0	0	0
V. Low (500)	0	0	0	0	0	0	0

Value of Structures by DOR Use for KAC Severe storm Damage Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
V. High (25)	\$100.08 MI	\$0.00	\$0.00	\$0.00	\$0.00	\$100.08 MI	\$0.00
High (50)	\$42.11 BI	\$27.05 BI	\$2.52 BI	\$2.89 BI	\$3.47 BI	\$2.64 BI	\$3.55 BI
Medium (100)	\$1.86 BI	\$105.14 TH	\$0.00	\$0.00	\$1.86 BI	\$0.00	\$0.00
Low (200)	\$38.93 TH	\$0.00	\$0.00	\$0.00	\$38.93 TH	\$0.00	\$0.00
V. Low (500)	\$772.78 MI	\$0.00	\$0.00	\$0.00	\$772.78 MI	\$0.00	\$0.00

Severe storm Risks Hazards for Pasco Unincorporated Areas

Population at risk for KAC Severe storm Damage Risk

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
V. High (25)	0	0	0	0	0	0	0
High (50)	307949	17864	82511	139660	30967	18413	15605
Medium (100)	0	0	0	0	0	0	0
Low (200)	0	0	0	0	0	0	0
V. Low (500)	0	0	0	0	0	0	0

Structures at risk for KAC Severe storm Damage Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
V. High (25)	0	0	0	0	0	0	0
High (50)	134215	88359	25445	11798	3907	953	3753
Medium (100)	1	1	0	0	0	0	0
Low (200)	0	0	0	0	0	0	0
V. Low (500)	0	0	0	0	0	0	0

Value of Structures by DOR Use for KAC Severe storm Damage Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
V. High (25)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
High (50)	\$38.03 BI	\$25.09 BI	\$2.37 BI	\$2.45 BI	\$2.72 BI	\$1.95 BI	\$3.45 BI
Medium (100)	\$105.14 TH	\$105.14 TH	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Low (200)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
V. Low (500)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Severe storm Risks Hazards for Dade City

KAC Severe storm Damage Risk

Population at risk for KAC Severe storm Damage Risk

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
V. High (25)	0	0	0	0	0	0	0
High (50)	6231	2334	1149	2896	944	137	484
Medium (100)	0	0	0	0	0	0	0
Low (200)	0	0	0	0	0	0	0
V. Low (500)	0	0	0	0	0	0	0

Structures at risk for KAC Severe storm Damage Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
V. High (25)	0	0	0	0	0	0	0
High (50)	2330	1568	122	148	309	112	71
Medium (100)	0	0	0	0	0	0	0
Low (200)	0	0	0	0	0	0	0
V. Low (500)	0	0	0	0	0	0	0

Value of Structures by DOR Use for KAC Severe storm Damage Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
V. High (25)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
High (50)	\$645.71 MI	\$288.37 MI	\$7.55 MI	\$46.35 MI	\$110.21 MI	\$146.60 MI	\$46.64 MI
Medium (100)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Low (200)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
V. Low (500)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Severe storm Risks Hazards for New Port Richey

KAC Severe storm Damage Risk

Population at risk for KAC Severe storm Damage Risk

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
V. High (25)	0	0	0	0	0	0	0
High (50)	15685	805	4555	7978	2486	8075	1086
Medium (100)	0	0	0	0	0	0	0
Low (200)	0	0	0	0	0	0	0
V. Low (500)	0	0	0	0	0	0	0

Structures at risk for KAC Severe storm Damage Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
V. High (25)	0	0	0	0	0	0	0
High (50)	6776	4405	510	1242	498	118	3
Medium (100)	0	0	0	0	0	0	0
Low (200)	0	0	0	0	0	0	0
V. Low (500)	0	0	0	0	0	0	0

Value of Structures by DOR Use for KAC Severe storm Damage Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
V. High (25)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
High (50)	\$1.74 BI	\$900.43 MI	\$24.16 MI	\$228.56 MI	\$337.27 MI	\$250.05 MI	\$2.21 MI
Medium (100)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Low (200)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
V. Low (500)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Severe storm Risks Hazards for Port Richey

KAC Severe storm Damage Risk

Population at risk for KAC Severe storm Damage Risk

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
V. High (25)	0	0	0	0	0	0	0
High (50)	2986	105	718	1955	482	472	125
Medium (100)	0	0	0	0	0	0	0
Low (200)	0	0	0	0	0	0	0
V. Low (500)	0	0	0	0	0	0	0

Structures at risk for KAC Severe storm Damage Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
V. High (25)	0	0	0	0	0	0	0
High (50)	1689	979	62	433	192	23	0
Medium (100)	0	0	0	0	0	0	0
Low (200)	0	0	0	0	0	0	0
V. Low (500)	0	0	0	0	0	0	0

Value of Structures by DOR Use for KAC Severe storm Damage Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
V. High (25)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
High (50)	\$462.62 MI	\$263.40 MI	\$3.54 MI	\$94.97 MI	\$77.06 MI	\$23.64 MI	\$0.00
Medium (100)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Low (200)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
V. Low (500)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Severe storm Risks Hazards for Town of St. Leo

KAC Severe storm Damage Risk

Population at risk for KAC Severe storm Damage Risk

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
V. High (25)	0	0	0	0	0	0	0
High (50)	609	85	38	137	28	158	4
Medium (100)	0	0	0	0	0	0	0
Low (200)	0	0	0	0	0	0	0
V. Low (500)	0	0	0	0	0	0	0

Structures at risk for KAC Severe storm Damage Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
V. High (25)	0	0	0	0	0	0	0
High (50)	72	31	7	2	8	7	17
Medium (100)	0	0	0	0	0	0	0
Low (200)	0	0	0	0	0	0	0
V. Low (500)	0	0	0	0	0	0	0

Value of Structures by DOR Use for KAC Severe storm Damage Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
V. High (25)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
High (50)	\$68.85 MI	\$9.63 MI	\$726.29 TH	\$3.58 MI	\$2.57 MI	\$41.63 MI	\$10.71 MI
Medium (100)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Low (200)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
V. Low (500)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Severe storm Risks Hazards for San Antonio

KAC Severe storm Damage Risk

Population at risk for KAC Severe storm Damage Risk

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
V. High (25)	0	0	0	0	0	0	0
High (50)	615	26	48	275	62	98	27
Medium (100)	0	0	0	0	0	0	0
Low (200)	0	0	0	0	0	0	0
V. Low (500)	0	0	0	0	0	0	0

Structures at risk for KAC Severe storm Damage Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
V. High (25)	0	0	0	0	0	0	0
High (50)	311	204	6	17	32	11	41
Medium (100)	0	0	0	0	0	0	0
Low (200)	0	0	0	0	0	0	0
V. Low (500)	0	0	0	0	0	0	0

Value of Structures by DOR Use for KAC Severe storm Damage Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
V. High (25)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
High (50)	\$73.37 MI	\$46.59 MI	\$405.79 TH	\$3.02 MI	\$6.20 MI	\$5.47 MI	\$11.69 MI
Medium (100)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Low (200)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
V. Low (500)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Severe storm Risks Hazards for Zephyrhills

KAC Severe storm Damage Risk

Population at risk for KAC Severe storm Damage Risk

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
V. High (25)	0	0	0	0	0	0	0
High (50)	10690	939	3462	5103	1232	838	634
Medium (100)	0	0	0	0	0	0	0
Low (200)	0	0	0	0	0	0	0
V. Low (500)	0	0	0	0	0	0	0

Structures at risk for KAC Severe storm Damage Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
V. High (25)	0	0	0	0	0	0	0
High (50)	4741	2454	1237	434	487	107	22
Medium (100)	0	0	0	0	0	0	0
Low (200)	0	0	0	0	0	0	0
V. Low (500)	0	0	0	0	0	0	0

Value of Structures by DOR Use for KAC Severe storm Damage Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
V. High (25)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
High (50)	\$1.08 BI	\$479.34 MI	\$110.90 MI	\$69.06 MI	\$218.63 MI	\$192.06 MI	\$10.03 MI
Medium (100)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Low (200)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
V. Low (500)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Tornado

Data Notes for KAC Tornado Risks

This volume describes the threat of damage from tornados, based on an analysis of National Severe Storms Forecast Center data from 1950-2003.

This chapter contains notes on the data sources, how the population is segmented in the reports, and some basic notes on how loss estimates were calculated.

1.1 Data Sources

This document presents population at risk, housing, and damage estimates based on Census 2000 (U.S. Census Bureau, 2000 Census of Population and Housing, Summary File3: Technical Documentation, 2002.) Tax records from the same time frame (2000) were obtained from the Florida Department of Revenue. All other data (topography, land cover, historical hurricane activity) is from Spring 2004. The analysis is at the level of the census block group (BG). Each BG is treated as a point. The relevant hazard data such as wind and water levels were extracted from the TAOS output files.

1.2 Department of Revenue Tax Record notes

The 2000 Department of Revenue Tax Records were used to create an exposure database for use in these analyses.

1.2.1 Georeferencing

A three stage process was used for georeferencing the tax data. Stage one attempted an address match against the Census TIGER file road network. Stage one georeferencing was successful in 70% of cases. Stage two attempted a partial address match, using both zip code and the Public Land Survey System (PLSS) as supplemental data. Stage two georeferencing matched an additional 15% of locations. Stage three, which matched the final 15% of primarily rural locations, used the PLSS data, zipcode, and satellite derived land cover to allocate these remaining locations to built locations in the designated Township/Range/Section grid cell. In urban counties the percentage of address matches (Stages one and two) was 90% or better; in a few rural areas the match rate was as low as 60%.

Census Designated Places (CDP) were used for sub-county regions to insure consistency with other Census based products.

KAC Tornado Risks Hazards for Pasco

Population at risk for KAC Tornado Risk

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
Low (1 in 500)	0	0	0	0	0	0	0
Medium (1 in 250)	0	0	0	0	0	0	0
High (1 in 100)	331774	20941	89026	152078	34923	26920	17178
Very High (1 in 50))	12991	1217	3455	5926	1278	1271	787

Structures at risk for KAC Tornado Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Low (1 in 500)	0	0	0	0	0	0	0
Medium (1 in 250)	2	0	2	0	0	0	0
High (1 in 100)	145190	95327	26045	13756	5187	1216	3659
Very High (1 in 50))	4702	2512	1299	295	240	106	250

Value of Structures by DOR Use for KAC Tornado Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Low (1 in 500)	\$100.08 MI	\$0.00	\$0.00	\$0.00	\$0.00	\$100.08 MI	\$0.00
Medium (1 in 250)	\$29.35 MI	\$0.00	\$82.22 TH	\$0.00	\$0.00	\$29.26 MI	\$0.00
High (1 in 100)	\$42.92 BI	\$26.55 BI	\$2.37 BI	\$2.86 BI	\$5.23 BI	\$2.49 BI	\$3.42 BI
Very High (1 in 50))	\$1.02 BI	\$503.27 MI	\$145.45 MI	\$31.76 MI	\$92.73 MI	\$118.42 MI	\$131.04 MI

KAC Tornado Risks Hazards for Pasco Unincorporated Areas

Population at risk for KAC Tornado Risk

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
Low (1 in 500)	0	0	0	0	0	0	0
Medium (1 in 250)	0	0	0	0	0	0	0
High (1 in 100)	300309	17265	80413	136254	30192	17513	15216
Very High (1 in 50))	7640	599	2098	3406	775	900	389

Structures at risk for KAC Tornado Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Low (1 in 500)	0	0	0	0	0	0	0
Medium (1 in 250)	2	0	2	0	0	0	0
High (1 in 100)	131516	87154	24374	11722	3830	923	3513
Very High (1 in 50))	2698	1206	1069	76	77	30	240

Value of Structures by DOR Use for KAC Tornado Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Low (1 in 500)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Medium (1 in 250)	\$82.22 TH	\$0.00	\$82.22 TH	\$0.00	\$0.00	\$0.00	\$0.00
High (1 in 100)	\$37.38 BI	\$24.82 BI	\$2.25 BI	\$2.44 BI	\$2.68 BI	\$1.87 BI	\$3.32 BI
Very High (1 in 50))	\$655.16 MI	\$273.91 MI	\$123.99 MI	\$6.95 MI	\$39.93 MI	\$82.50 MI	\$127.88 MI

KAC Tornado Risks Hazards for Dade City

Population at risk for KAC Tornado Risk

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
Low (1 in 500)	0	0	0	0	0	0	0
Medium (1 in 250)	0	0	0	0	0	0	0
High (1 in 100)	6231	2334	1149	2896	944	137	484
Very High (1 in 50))	0	0	0	0	0	0	0

Structures at risk for KAC Tornado Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Low (1 in 500)	0	0	0	0	0	0	0
Medium (1 in 250)	215	138	45	19	2	11	0
High (1 in 100)	2115	1430	77	129	307	101	71
Very High (1 in 50))	0	0	0	0	0	0	0

Value of Structures by DOR Use for KAC Tornado Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Low (1 in 500)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Medium (1 in 250)	\$34.72 MI	\$20.12 MI	\$2.60 MI	\$1.98 MI	\$2.02 MI	\$7.99 MI	\$0.00
High (1 in 100)	\$610.99 MI	\$268.24 MI	\$4.95 MI	\$44.37 MI	\$108.19 MI	\$138.60 MI	\$46.64 MI
Very High (1 in 50))	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

KAC Tornado Risks Hazards for New Port Richey

Population at risk for KAC Tornado Risk

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
Low (1 in 500)	0	0	0	0	0	0	0
Medium (1 in 250)	0	0	0	0	0	0	0
High (1 in 100)	15685	805	4555	7978	2486	8075	1086
Very High (1 in 50))	0	0	0	0	0	0	0

Structures at risk for KAC Tornado Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Low (1 in 500)	0	0	0	0	0	0	0
Medium (1 in 250)	0	0	0	0	0	0	0
High (1 in 100)	6776	4405	510	1242	498	118	3
Very High (1 in 50))	0	0	0	0	0	0	0

Value of Structures by DOR Use for KAC Tornado Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Low (1 in 500)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Medium (1 in 250)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
High (1 in 100)	\$1.74 BI	\$900.43 MI	\$24.16 MI	\$228.56 MI	\$337.27 MI	\$250.05 MI	\$2.21 MI
Very High (1 in 50))	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

KAC Tornado Risks Hazards for Port Richey

Population at risk for KAC Tornado Risk

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
Low (1 in 500)	0	0	0	0	0	0	0
Medium (1 in 250)	0	0	0	0	0	0	0
High (1 in 100)	2986	105	718	1955	482	472	125
Very High (1 in 50))	0	0	0	0	0	0	0

Structures at risk for KAC Tornado Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Low (1 in 500)	0	0	0	0	0	0	0
Medium (1 in 250)	0	0	0	0	0	0	0
High (1 in 100)	1689	979	62	433	192	23	0
Very High (1 in 50))	0	0	0	0	0	0	0

Value of Structures by DOR Use for KAC Tornado Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Low (1 in 500)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Medium (1 in 250)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
High (1 in 100)	\$462.62 MI	\$263.40 MI	\$3.54 MI	\$94.97 MI	\$77.06 MI	\$23.64 MI	\$0.00
Very High (1 in 50))	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

KAC Tornado Risks Hazards for Town of St. Leo

Population at risk for KAC Tornado Risk

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
Low (1 in 500)	0	0	0	0	0	0	0
Medium (1 in 250)	0	0	0	0	0	0	0
High (1 in 100)	609	85	38	137	28	158	4
Very High (1 in 50))	0	0	0	0	0	0	0

Structures at risk for KAC Tornado Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Low (1 in 500)	0	0	0	0	0	0	0
Medium (1 in 250)	0	0	0	0	0	0	0
High (1 in 100)	72	31	7	2	8	7	17
Very High (1 in 50))	0	0	0	0	0	0	0

Value of Structures by DOR Use for KAC Tornado Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Low (1 in 500)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Medium (1 in 250)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
High (1 in 100)	\$68.85 MI	\$9.63 MI	\$726.29 TH	\$3.58 MI	\$2.57 MI	\$41.63 MI	\$10.71 MI
Very High (1 in 50))	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

KAC Tornado Risks Hazards for San Antonio

Population at risk for KAC Tornado Risk

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
Low (1 in 500)	0	0	0	0	0	0	0
Medium (1 in 250)	0	0	0	0	0	0	0
High (1 in 100)	615	26	48	275	62	98	27
Very High (1 in 50))	0	0	0	0	0	0	0

Structures at risk for KAC Tornado Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Low (1 in 500)	0	0	0	0	0	0	0
Medium (1 in 250)	0	0	0	0	0	0	0
High (1 in 100)	311	204	6	17	32	11	41
Very High (1 in 50))	0	0	0	0	0	0	0

Value of Structures by DOR Use for KAC Tornado Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Low (1 in 500)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Medium (1 in 250)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
High (1 in 100)	\$73.37 MI	\$46.59 MI	\$405.79 TH	\$3.02 MI	\$6.20 MI	\$5.47 MI	\$11.69 MI
Very High (1 in 50))	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

KAC Tornado Risks Hazards for Zephyrhills

Population at risk for KAC Tornado Risk

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
Low (1 in 500)	0	0	0	0	0	0	0
Medium (1 in 250)	0	0	0	0	0	0	0
High (1 in 100)	5339	321	2105	2583	729	467	236
Very High (1 in 50))	5351	618	1357	2520	503	371	398

Structures at risk for KAC Tornado Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Low (1 in 500)	0	0	0	0	0	0	0
Medium (1 in 250)	0	0	0	0	0	0	0
High (1 in 100)	2737	1148	1007	215	324	31	12
Very High (1 in 50))	2004	1306	230	219	163	76	10

Value of Structures by DOR Use for KAC Tornado Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Low (1 in 500)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Medium (1 in 250)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
High (1 in 100)	\$712.55 MI	\$249.98 MI	\$89.43 MI	\$44.26 MI	\$165.87 MI	\$156.14 MI	\$6.88 MI
Very High (1 in 50))	\$367.48 MI	\$229.36 MI	\$21.47 MI	\$24.81 MI	\$52.76 MI	\$35.93 MI	\$3.15 MI

Tsunami

Data Notes for KAC Tsunami Risks

Tsunami risk in Florida is difficult to assess, as there are no reliable historical records and few publications on the subject. Therefore, simulation techniques were used. Three types of events were simulated: Caribbean volcanic events, Caribbean and Central American earthquakes, and East Atlantic (the Cumbre Vieja volcano, on the island of La Palma, in the Canary Islands) volcanic events. In general, on the Gulf Coast of Florida, these events produced at worst a 4 meter wave, while in some parts of the Atlantic coast this value grew to 6 to 7 meters. Expert Opinion suggests that these would be approximately 1 in 500 year events. Note that these areas are mostly in the Category 5 hurricane zone, which is probably an event of comparable frequency in North Florida. However, a tsunami wave from the worst case La Palma event would more than likely inundate the entire Atlantic coastline, as opposed to only a few dozen miles of coastline in the case of a hurricane. The potential and magnitude of such an event is highly controversial, with a minority of researchers suggesting waves as high as 40 meters, with most estimates in the 5 meter range.

This section contains notes on the data sources, how the population is segmented in the reports, and some basic notes on how loss estimates were calculated.

1.1 Data Sources

This document presents population at risk, housing, and damage estimates based on Census 2000 (U.S. Census Bureau, 2000 Census of Population and Housing, Summary File 3: Technical Documentation, 2002.) Tax records from the same time frame (2000) were obtained from the Florida Department of Revenue. All other data (topography, land cover, historical hurricane activity) is from Spring 2004. The analysis is at the level of the census block group (BG). Each BG is treated as a point. The relevant hazard data such as wind and water levels were extracted from the TAOS output files.

1.2 Department of Revenue Tax Record notes

The 2000 Department of Revenue Tax Records were used to create an exposure database for use in these analyses.

1.2.1 Georeferencing

A three stage process was used for georeferencing the tax data. Stage one attempted an address match against the Census TIGER file road network. Stage one georeferencing was successful in 70% of cases. Stage two attempted a partial address match, using both zip code and the Public Land Survey System (PLSS) as supplemental data. Stage two georeferencing matched an additional 15% of locations. Stage three, which matched the final 15% of primarily rural locations, used the PLSS data, zip code, and satellite derived land cover to allocate these remaining locations to built locations in the designated Township/Range/Section grid cell. In urban counties the percentage of address matches (Stages one and two) was 90% or better; in a few rural areas the match rate was as low as 60%.

Census Designated Places (CDP) were used for sub-county regions to insure consistency with other Census based products.

KAC Tsunami Risks Hazards for Pasco

Population at risk for KAC Tsunami Risk

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
Out of Zone	139154	6082	44748	71220	15680	17314	7726
500 yr Tsunami	0	0	0	0	0	0	0
	0	0	0	0	0	0	0

Structures at risk for KAC Tsunami Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Out of Zone	68603	50343	7377	7717	2424	647	95
500 yr Tsunami	0	0	0	0	0	0	0
	0	0	0	0	0	0	0

Value of Structures by DOR Use for KAC Tsunami Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Out of Zone	\$17.61 BI	\$12.48 BI	\$513.07 MI	\$1.54 BI	\$1.65 BI	\$1.28 BI	\$153.79 MI
500 yr Tsunami	\$29.26 MI	\$0.00	\$0.00	\$0.00	\$0.00	\$29.26 MI	\$0.00
	\$1.86 BI	\$0.00	\$0.00	\$0.00	\$1.86 BI	\$0.00	\$0.00

Note: There is no Tsunami risk for City of Dade City, City of Zephyrhills, Town of St. Leo, or City of San Antonio as all are located on the East side of Pasco County.

KAC Tsunami Risks Hazards for Unincorporated Pasco

Population at risk for KAC Tsunami Risk

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
Out of Zone	125569	5414	40637	63550	13490	9263	6930
500 yr Tsunami	0	0	0	0	0	0	0
	0	0	0	0	0	0	0

Structures at risk for KAC Tsunami Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Out of Zone	61530	46069	6843	6236	1778	513	91
500 yr Tsunami	0	0	0	0	0	0	0
	0	0	0	0	0	0	0

Value of Structures by DOR Use for KAC Tsunami Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Out of Zone	\$15.57 BI	\$11.53 BI	\$487.39 MI	\$1.25 BI	\$1.25 BI	\$919.56 MI	\$133.47 MI
500 yr Tsunami	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

KAC Tsunami Risks Hazards for New Port Richey

Population at risk for KAC Tsunami Risk

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
Out of Zone	10599	563	3393	5715	1708	7579	671
500 yr Tsunami	0	0	0	0	0	0	0
	0	0	0	0	0	0	0

Structures at risk for KAC Tsunami Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Out of Zone	5414	3320	471	1053	458	110	2
500 yr Tsunami	0	0	0	0	0	0	0
	0	0	0	0	0	0	0

Value of Structures by DOR Use for KAC Tsunami Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Out of Zone	\$1.46 BI	\$691.38 MI	\$22.18 MI	\$197.99 MI	\$317.06 MI	\$231.17 MI	\$2.03 MI
500 yr Tsunami	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

KAC Tsunami Risks Hazards for Port Richey

Population at risk for KAC Tsunami Risk

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
Out of Zone	2986	105	718	1955	482	472	125
500 yr Tsunami	0	0	0	0	0	0	0
	0	0	0	0	0	0	0

Structures at risk for KAC Tsunami Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Out of Zone	1627	935	60	424	185	23	0
500 yr Tsunami	0	0	0	0	0	0	0
	0	0	0	0	0	0	0

Value of Structures by DOR Use for KAC Tsunami Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Out of Zone	\$448.65 MI	\$254.33 MI	\$3.35 MI	\$93.01 MI	\$74.32 MI	\$23.64 MI	\$0.00
500 yr Tsunami	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Wildland Fire

Data Notes for FDOF Wildland Fire Levels of Concern

Note: This is the official wildland fire level of concern (LOC) layer from the Division of Forestry. For a variety of production reasons, we were unable to use this layer for the calculation of loss costs. This layer will be added to the on-line mapping system as soon as it is available.

The Level of Concern is an integer scaled from 0 to 9 indicating the relative risk of Wildland Fire, and is an output of the Florida Division of Forestry Fire Risk Assessment System (FRAS). More information on FRAS and the LOC value is available at:

<http://flame.fl-dof.com/fras1/FRAS User Guide.pdf>

This data set is courtesy of the Florida Division of Forestry, and comes with the following disclaimer:

The user assumes the entire risk related to their use of the FRAS published maps. The Florida Department of Agriculture and Consumer Services is providing these data as is and disclaims any and all warranties, whether expressed or implied, including (without limitation) any implied warranties of merchantability or fitness for any particular purpose. In no event will the Florida Department of Agriculture and Consumer Services be liable to you or to any third party for any direct, indirect, incidental, consequential, special, or exemplary damages or lost profit resulting from any use or misuse of this data.

This chapter contains notes on the data sources, how the population is segmented in the reports, and some basic notes on how loss estimates were calculated.

1.1 Data Sources

This document presents population at risk, housing, and damage estimates based on Census 2000 (U.S. Census Bureau, 2000 Census of Population and Housing, Summary File3:Technical Documentation, 2002.) Tax records from the same time frame (2000) were obtained from the Florida Department of Revenue. All other data (topography, land cover, historical hurricane activity) is from Spring 2004. The analysis is at the level of the census block group (BG). Each BG is treated as a point. Therelevant hazard data such as wind and water levels were extracted from the TAOS output files and processed by the automatic report generator.

1.2 Department of Revenue Tax Record notes

The 2000 Department of Revenue Tax Records were used to create an exposure data base for use in these analyses.

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1.2.1 Georeferencing

A three stage process was used for georeferencing the tax data. Stage one attempted an address match against the Census TIGER fileroad network. Stage one georeferencing was successful in 70%of cases. Stage two attempted a partial address match, using both zip code and the Public Land Survey System (PLSS) as supplemental data. Stage two georeferencing matched an additional 15% of locations.

Stage three, which matched the final 15% of primarily rural locations, used the PLSS data, zip code, and satellite derived land cover to allocate these remaining locations to built locations in the designated Township/Range/Section grid cell. In urban counties the percentage of address matches (Stages one and two) was 90% or better; in a few rural areas the match rate was as low as 60%.

Census Designated Places (CDP) were used for sub-county regions to insure consistency with other Census based products.

FDOF Wildland Fire Levels of Concern Hazards for Pasco

Population at risk for FDOF Fire Risk

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
Level 1(low)	14067	1391	1825	5339	1384	414	813
Level 2	13066	779	4039	5511	975	639	567
Level 3	32494	1535	9299	16046	3470	1069	1604
Level 4	8725	607	2345	4787	934	970	469
Level 5(medium)	39890	4505	8372	16862	4596	4930	2098
Level 6	24217	906	7950	10991	2069	890	1097
Level 7	38246	3161	7898	15808	3985	4760	1858
Level 8	13702	864	2284	6005	1449	695	780
Level 9(high)	9844	479	1749	4825	1604	476	700

Structures at risk for FDOF Fire Risk LOC

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Level 1(low)	23064	1360	13734	4280	2601	743	346
Level 2	17263	6019	6302	3177	945	295	525
Level 3	13251	5413	4577	1766	716	242	537
Level 4	3418	2175	638	194	112	31	268
Level 5(medium)	14067	7999	3466	1083	775	133	611
Level 6	7790	3873	2386	856	277	91	307
Level 7	22346	13734	4280	2601	743	346	642
Level 8	11340	6302	3177	945	295	525	96
Level 9(high)	7867	4577	1766	716	242	537	29

Value of Structures by DOR Use for FDOF Fire Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Level (low)	\$6.83 BI	\$396.79 MI	\$4.18 BI	\$448.91 MI	\$584.66 MI	\$544.11 MI	\$671.87 MI
Level	\$5.29 BI	\$2.07 BI	\$1.60 BI	\$357.55 MI	\$310.08 MI	\$467.65 MI	\$491.63 MI
Level	\$4.27 BI	\$1.67 BI	\$867.86 MI	\$224.53 MI	\$698.05 MI	\$213.94 MI	\$597.00 MI
Level	\$1.18 BI	\$683.13 MI	\$57.52 MI	\$68.58 MI	\$59.28 MI	\$29.47 MI	\$285.56 MI
Level (medium)	\$4.03 BI	\$2.25 BI	\$315.77 MI	\$197.24 MI	\$524.79 MI	\$174.33 MI	\$575.02 MI
Level	\$2.19 BI	\$1.21 BI	\$255.60 MI	\$175.10 MI	\$213.98 MI	\$66.02 MI	\$267.28 MI
Level	\$6.99 BI	\$4.18 BI	\$448.91 MI	\$584.66 MI	\$544.11 MI	\$671.87 MI	\$558.69 MI
Level	\$3.29 BI	\$1.60 BI	\$357.55 MI	\$310.08 MI	\$467.65 MI	\$491.63 MI	\$62.11 MI
Level (high)	\$2.63 BI	\$867.86 MI	\$224.53 MI	\$698.05 MI	\$213.94 MI	\$597.00 MI	\$23.97 MI

FDOF Wildland Fire Levels of Concern Hazards for Unincorporated Pasco

Population at risk for FDOF Fire Risk

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
Level 1(low)	12669	1023	1394	4418	1165	360	687
Level 2	11199	589	3309	4669	870	283	521
Level 3	32494	1535	9299	16046	3470	1069	1604
Level 4	5923	425	1881	3317	533	612	244
Level 5(medium)	29384	2789	5538	11604	2910	1141	1376
Level 6	22127	629	7478	10211	1835	815	988
Level 7	33118	2364	7113	13289	3124	4527	1505
Level 8	13702	864	2284	6005	1449	695	780
Level 9(high)	9731	471	1741	4806	1560	378	668

Structures at risk for FDOF Fire Risk LOC

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Level 1(low)	21045	904	12848	4129	2242	600	322
Level 2	16081	5315	6136	3035	815	268	512
Level 3	12278	4844	4451	1661	566	225	531
Level 4	3233	2068	602	175	99	27	262
Level 5(medium)	10286	5760	2782	727	400	71	546
Level 6	7118	3493	2321	780	189	34	301
Level 7	20761	12848	4129	2242	600	322	620
Level 8	10862	6136	3035	815	268	512	96
Level 9(high)	7463	4451	1661	566	225	531	29

Value of Structures by DOR Use for FDOF Fire Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Level (low)	\$6.23 BI	\$304.62 MI	\$4.00 BI	\$430.79 MI	\$512.41 MI	\$429.47 MI	\$557.60 MI
Level	\$4.90 BI	\$1.93 BI	\$1.58 BI	\$331.20 MI	\$255.24 MI	\$313.65 MI	\$484.85 MI
Level	\$3.59 BI	\$1.54 BI	\$857.58 MI	\$198.88 MI	\$196.83 MI	\$206.97 MI	\$587.83 MI
Level	\$1.14 BI	\$663.59 MI	\$55.23 MI	\$61.64 MI	\$55.11 MI	\$18.11 MI	\$284.78 MI
Level (medium)	\$3.04 BI	\$1.81 BI	\$263.01 MI	\$127.58 MI	\$221.32 MI	\$86.41 MI	\$536.68 MI
Level	\$1.98 BI	\$1.13 BI	\$250.72 MI	\$158.54 MI	\$145.45 MI	\$35.62 MI	\$262.80 MI
Level	\$6.48 BI	\$4.00 BI	\$430.79 MI	\$512.41 MI	\$429.47 MI	\$557.60 MI	\$551.46 MI
Level	\$3.02 BI	\$1.58 BI	\$331.20 MI	\$255.24 MI	\$313.65 MI	\$484.85 MI	\$62.11 MI
Level (high)	\$2.07 BI	\$857.58 MI	\$198.88 MI	\$196.83 MI	\$206.97 MI	\$587.83 MI	\$23.97 MI

FDOF Wildland Fire Levels of Concern Hazards for Dade City

Population at risk for FDOF Fire Risk

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
Level 1(low)	838	280	342	692	86	14	63
Level 2	707	180	153	249	56	19	17
Level 3	0	0	0	0	0	0	0
Level 4	30	0	0	8	4	0	0
Level 5(medium)	2115	1168	172	946	340	27	228
Level 6	1494	248	233	622	184	0	84
Level 7	440	432	72	274	173	50	79
Level 8	0	0	0	0	0	0	0
Level 9(high)	0	0	0	0	0	0	0

Structures at risk for FDOF Fire Risk LOC

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Level 1(low)	632	257	243	29	50	43	10
Level 2	193	144	6	8	21	9	5
Level 3	349	185	51	33	63	9	8
Level 4	35	16	2	6	7	2	2
Level 5(medium)	589	399	22	37	74	21	36
Level 6	73	47	2	4	15	4	1
Level 7	390	243	29	50	43	10	15
Level 8	49	6	8	21	9	5	0
Level 9(high)	164	51	33	63	9	8	0

Value of Structures by DOR Use for FDOF Fire Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Level 1(low)	\$138.90 MI	\$50.74 MI	\$37.72 MI	\$6.46 MI	\$10.24 MI	\$31.44 MI	\$2.30 MI
Level 2	\$75.81 MI	\$23.66 MI	\$400.29 TH	\$2.18 MI	\$8.75 MI	\$37.15 MI	\$3.67 MI
Level 3	\$69.69 MI	\$34.38 MI	\$7.00 MI	\$4.60 MI	\$12.60 MI	\$3.32 MI	\$7.79 MI
Level 4	\$12.47 MI	\$2.51 MI	\$143.94 TH	\$836.08 TH	\$1.05 MI	\$7.64 MI	\$286.25 TH
Level 5(medium)	\$180.21 MI	\$86.33 MI	\$984.16 TH	\$12.81 MI	\$32.66 MI	\$18.38 MI	\$29.04 MI
Level 6	\$16.30 MI	\$8.27 MI	\$161.79 TH	\$424.14 TH	\$2.41 MI	\$4.61 MI	\$428.49 TH
Level 7	\$93.25 MI	\$37.72 MI	\$6.46 MI	\$10.24 MI	\$31.44 MI	\$2.30 MI	\$5.09 MI
Level 8	\$52.15 MI	\$400.29 TH	\$2.18 MI	\$8.75 MI	\$37.15 MI	\$3.67 MI	\$0.00
Level 9(high)	\$35.31 MI	\$7.00 MI	\$4.60 MI	\$12.60 MI	\$3.32 MI	\$7.79 MI	\$0.00

FDOF Wildland Fire Levels of Concern Hazards for New Port Richey

Population at risk for FDOF Fire Risk

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
Level 1(low)	0	0	0	0	0	0	0
Level 2	539	10	289	316	36	156	29
Level 3	0	0	0	0	0	0	0
Level 4	2766	182	464	1458	397	234	223
Level 5(medium)	2238	109	692	1272	470	3239	190
Level 6	0	0	0	0	0	0	0
Level 7	1307	60	94	427	198	40	134
Level 8	0	0	0	0	0	0	0
Level 9(high)	113	8	8	19	44	98	32

Structures at risk for FDOF Fire Risk LOC

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Level 1(low)	659	24	338	52	185	58	2
Level 2	474	313	63	52	40	6	0
Level 3	203	110	28	38	25	2	0
Level 4	71	39	22	8	2	0	0
Level 5(medium)	376	274	32	38	22	10	0
Level 6	426	233	24	59	60	49	1
Level 7	635	338	52	185	58	2	0
Level 8	161	63	52	40	6	0	0
Level 9(high)	93	28	38	25	2	0	0

Value of Structures by DOR Use for FDOF Fire Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Level 1(low)	\$231.08 MI	\$5.98 MI	\$65.62 MI	\$4.24 MI	\$34.53 MI	\$41.13 MI	\$79.58 MI
Level 2	\$95.02 MI	\$56.11 MI	\$4.78 MI	\$6.80 MI	\$22.62 MI	\$4.70 MI	\$0.00
Level 3	\$46.40 MI	\$25.61 MI	\$1.16 MI	\$9.42 MI	\$9.91 MI	\$310.31 TH	\$0.00
Level 4	\$16.05 MI	\$6.83 MI	\$1.36 MI	\$5.59 MI	\$2.26 MI	\$0.00	\$0.00
Level 5(medium)	\$87.19 MI	\$60.83 MI	\$1.17 MI	\$8.00 MI	\$10.60 MI	\$6.59 MI	\$0.00
Level 6	\$124.77 MI	\$53.46 MI	\$942.17 TH	\$15.28 MI	\$28.92 MI	\$24.38 MI	\$1.78 MI
Level 7	\$225.10 MI	\$65.62 MI	\$4.24 MI	\$34.53 MI	\$41.13 MI	\$79.58 MI	\$0.00
Level 8	\$38.90 MI	\$4.78 MI	\$6.80 MI	\$22.62 MI	\$4.70 MI	\$0.00	\$0.00
Level 9(high)	\$20.79 MI	\$1.16 MI	\$9.42 MI	\$9.91 MI	\$310.31 TH	\$0.00	\$0.00

FDOF Wildland Fire Levels of Concern Hazards for Port Richey

Population at risk for FDOF Fire Risk

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
Level 1(low)	0	0	0	0	0	0	0
Level 2	0	0	0	0	0	181	0
Level 3	0	0	0	0	0	0	0
Level 4	0	0	0	0	0	0	0
Level 5(medium)	53	0	29	22	0	0	0
Level 6	0	0	0	0	0	0	0
Level 7	2466	105	508	1593	446	55	119
Level 8	0	0	0	0	0	0	0
Level 9(high)	0	0	0	0	0	0	0

Structures at risk for FDOF Fire Risk LOC

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Level 1(low)	274	0	159	5	86	23	1
Level 2	231	112	51	17	44	7	0
Level 3	169	95	5	36	27	6	0
Level 4	40	30	4	3	2	1	0
Level 5(medium)	146	104	2	26	11	3	0
Level 6	75	49	9	4	10	3	0
Level 7	274	159	5	86	23	1	0
Level 8	119	51	17	44	7	0	0
Level 9(high)	74	5	36	27	6	0	0

Value of Structures by DOR Use for FDOF Fire Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Level 1(low)	\$69.40 MI	\$0.00	\$36.45 MI	\$481.90 TH	\$20.07 MI	\$12.36 MI	\$40.89 TH
Level 2	\$56.60 MI	\$25.02 MI	\$12.60 MI	\$2.07 MI	\$12.99 MI	\$3.93 MI	\$0.00
Level 3	\$46.49 MI	\$23.04 MI	\$609.69 TH	\$10.74 MI	\$8.77 MI	\$3.33 MI	\$0.00
Level 4	\$10.53 MI	\$5.85 MI	\$275.63 TH	\$391.14 TH	\$384.65 TH	\$3.63 MI	\$0.00
Level 5(medium)	\$37.89 MI	\$22.56 MI	\$100.32 TH	\$5.06 MI	\$9.68 MI	\$494.66 TH	\$0.00
Level 6	\$13.76 MI	\$9.66 MI	\$353.96 TH	\$756.21 TH	\$2.26 MI	\$735.29 TH	\$0.00
Level 7	\$69.40 MI	\$36.45 MI	\$481.90 TH	\$20.07 MI	\$12.36 MI	\$40.89 TH	\$0.00
Level 8	\$31.59 MI	\$12.60 MI	\$2.07 MI	\$12.99 MI	\$3.93 MI	\$0.00	\$0.00
Level 9(high)	\$23.45 MI	\$609.69 TH	\$10.74 MI	\$8.77 MI	\$3.33 MI	\$0.00	\$0.00

FDOF Wildland Fire Levels of Concern Hazards for Town of St. Leo

Population at risk for FDOF Fire Risk

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
Level 1(low)	0	0	0	0	0	0	0
Level 2	0	0	0	0	0	0	0
Level 3	0	0	0	0	0	0	0
Level 4	6	0	0	4	0	124	2
Level 5(medium)	0	0	0	0	0	0	0
Level 6	0	0	0	0	0	0	0
Level 7	603	85	38	133	28	34	2
Level 8	0	0	0	0	0	0	0
Level 9(high)	0	0	0	0	0	0	0

Structures at risk for FDOF Fire Risk LOC

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Level 1(low)	21	2	13	1	1	2	2
Level 2	13	4	1	1	1	1	5
Level 3	4	2	0	0	2	0	0
Level 4	5	2	1	0	0	1	1
Level 5(medium)	2	1	0	0	0	1	0
Level 6	7	2	2	0	1	0	2
Level 7	19	13	1	1	2	2	0
Level 8	9	1	1	1	1	5	0
Level 9(high)	2	0	0	2	0	0	0

Value of Structures by DOR Use for FDOF Fire Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Level 1(low)	\$36.21 MI	\$1.10 MI	\$3.96 MI	\$50.40 TH	\$182.77 TH	\$310.15 TH	\$30.60 MI
Level 2	\$9.97 MI	\$521.17 TH	\$19.06 TH	\$3.39 MI	\$593.21 TH	\$3.13 MI	\$2.32 MI
Level 3	\$1.19 MI	\$720.68 TH	\$0.00	\$0.00	\$467.42 TH	\$0.00	\$0.00
Level 4	\$1.10 MI	\$583.05 TH	\$71.80 TH	\$0.00	\$0.00	\$91.86 TH	\$349.78 TH
Level 5(medium)	\$5.74 MI	\$1.16 MI	\$0.00	\$0.00	\$0.00	\$4.58 MI	\$0.00
Level 6	\$1.86 MI	\$371.29 TH	\$367.64 TH	\$0.00	\$4.05 TH	\$0.00	\$1.12 MI
Level 7	\$35.10 MI	\$3.96 MI	\$50.40 TH	\$182.77 TH	\$310.15 TH	\$30.60 MI	\$0.00
Level 8	\$9.45 MI	\$19.06 TH	\$3.39 MI	\$593.21 TH	\$3.13 MI	\$2.32 MI	\$0.00
Level 9(high)	\$467.42 TH	\$0.00	\$0.00	\$467.42 TH	\$0.00	\$0.00	\$0.00

FDOF Wildland Fire Levels of Concern Hazards for San Antonio

Population at risk for FDOF Fire Risk

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
Level 1(low)	0	0	0	0	0	40	0
Level 2	0	0	0	0	0	0	0
Level 3	0	0	0	0	0	0	0
Level 4	0	0	0	0	0	0	0
Level 5(medium)	615	26	48	275	62	58	27
Level 6	0	0	0	0	0	0	0
Level 7	0	0	0	0	0	0	0
Level 8	0	0	0	0	0	0	0
Level 9(high)	0	0	0	0	0	0	0

Structures at risk for FDOF Fire Risk LOC

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Level 1(low)	58	31	10	2	6	2	7
Level 2	38	29	1	1	3	1	3
Level 3	14	10	0	1	3	0	0
Level 4	4	1	0	0	1	0	2
Level 5(medium)	135	88	3	7	12	4	21
Level 6	2	1	0	0	0	0	1
Level 7	29	10	2	6	2	7	2
Level 8	9	1	1	3	1	3	0
Level 9(high)	4	0	1	3	0	0	0

Value of Structures by DOR Use for FDOF Fire Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Level 1(low)	\$11.80 MI	\$6.66 MI	\$1.73 MI	\$219.27 TH	\$1.49 MI	\$122.10 TH	\$1.58 MI
Level 2	\$7.98 MI	\$6.18 MI	\$28.11 TH	\$385.18 TH	\$553.90 TH	\$36.64 TH	\$802.38 TH
Level 3	\$2.56 MI	\$1.64 MI	\$0.00	\$182.45 TH	\$731.14 TH	\$0.00	\$0.00
Level 4	\$498.37 TH	\$173.22 TH	\$0.00	\$0.00	\$238.62 TH	\$0.00	\$86.53 TH
Level 5(medium)	\$37.65 MI	\$22.83 MI	\$250.06 TH	\$1.26 MI	\$2.55 MI	\$4.72 MI	\$6.05 MI
Level 6	\$386.48 TH	\$84.94 TH	\$0.00	\$0.00	\$0.00	\$0.00	\$301.53 TH
Level 7	\$5.95 MI	\$1.73 MI	\$219.27 TH	\$1.49 MI	\$122.10 TH	\$1.58 MI	\$811.21 TH
Level 8	\$1.81 MI	\$28.11 TH	\$385.18 TH	\$553.90 TH	\$36.64 TH	\$802.38 TH	\$0.00
Level 9(high)	\$913.59 TH	\$0.00	\$182.45 TH	\$731.14 TH	\$0.00	\$0.00	\$0.00

FDOF Wildland Fire Levels of Concern Hazards for Zephyrhills

Population at risk for FDOF Fire Risk

Zone	Total	Minority	Over 65	Disabled	Poverty	Lang Iso	Sing Pnt
Level 1(low)	560	88	89	229	133	0	63
Level 2	621	0	288	277	13	0	0
Level 3	0	0	0	0	0	0	0
Level 4	0	0	0	0	0	0	0
Level 5(medium)	5485	413	1893	2743	814	465	277
Level 6	596	29	239	158	50	75	25
Level 7	312	115	73	92	16	54	19
Level 8	0	0	0	0	0	0	0
Level 9(high)	0	0	0	0	0	0	0

Structures at risk for FDOF Fire Risk LOC

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Level 1(low)	407	142	148	63	36	16	2
Level 2	251	110	47	64	27	3	0
Level 3	317	178	85	18	34	0	2
Level 4	33	21	8	2	1	0	1
Level 5(medium)	2564	1393	627	251	255	30	8
Level 6	90	49	28	9	2	1	1
Level 7	270	148	63	36	16	2	5
Level 8	141	47	64	27	3	0	0
Level 9(high)	139	85	18	34	0	2	0

Value of Structures by DOR Use for FDOF Fire Risk

Zone	Total	SF Res	Mob Home	MF Res	Commercial	Agriculture	Gov/Instit
Level 1(low)	\$110.25 MI	\$27.68 MI	\$46.10 MI	\$6.76 MI	\$6.96 MI	\$22.57 MI	\$169.50 TH
Level 2	\$140.58 MI	\$22.97 MI	\$3.61 MI	\$11.52 MI	\$11.96 MI	\$90.51 MI	\$0.00
Level 3	\$98.24 MI	\$41.15 MI	\$7.98 MI	\$2.12 MI	\$43.04 MI	\$0.00	\$3.94 MI
Level 4	\$4.84 MI	\$3.88 MI	\$540.75 TH	\$129.65 TH	\$232.80 TH	\$0.00	\$55.35 TH
Level 5(medium)	\$472.91 MI	\$250.64 MI	\$50.37 MI	\$43.20 MI	\$66.86 MI	\$58.59 MI	\$3.25 MI
Level 6	\$22.21 MI	\$15.59 MI	\$3.05 MI	\$102.95 TH	\$1.93 MI	\$677.16 TH	\$855.12 TH
Level 7	\$83.89 MI	\$46.10 MI	\$6.76 MI	\$6.96 MI	\$22.57 MI	\$169.50 TH	\$1.32 MI
Level 8	\$117.61 MI	\$3.61 MI	\$11.52 MI	\$11.96 MI	\$90.51 MI	\$0.00	\$0.00
Level 9(high)	\$57.08 MI	\$7.98 MI	\$2.12 MI	\$43.04 MI	\$0.00	\$3.94 MI	\$0.00