

RESOLUTION NO. 63-2010

A RESOLUTION OF THE TOWN OF MALABAR, BREVARD COUNTY, FLORIDA, ADOPTING AND SUPPORTING MALABAR'S DESIGNATED PORTION OF THE BREVARD PREPARES LOCAL MITIGATION STRATEGY; AND PROVIDING FOR AN EFFECTIVE DATE.

Whereas, The Town of Malabar is vulnerable to the human and economic costs of natural, technological and societal disasters, and

Whereas, The Town of Malabar recognizes the importance of reducing or eliminating these vulnerabilities for the overall good and welfare of the community, and

Whereas, The Town of Malabar has been an active participant in the Brevard Prepares Local Mitigation Strategy steering committee, which has established a comprehensive, coordinated planning process to eliminate or decrease these vulnerabilities, and

Whereas, The Town of Malabar's representatives and staff have identified, justified and prioritized a number of proposed projects and programs needed to mitigate the vulnerabilities of Town of Malabar to the impacts of future disasters, and

Whereas, the majority of these identified projects have been implemented in our Town despite the absence of any outside funding and any remaining have been incorporated into this edition of the Brevard Prepares Local Mitigation Strategy Plan that has been prepared and issued for consideration and implementation by the communities of Brevard County.

NOW, THEREFORE BE IT RESOLVED BY THE TOWN OF MALABAR OF BREVARD COUNTY, FLORIDA that;

- 1] The Town of Malabar hereby accepts and approves of its designated portion of the Brevard Prepares Local Mitigation Strategy Plan,
- 2] The agency personnel of Town of Malabar is requested and instructed to pursue available funding opportunities for implementation of the proposals designated therein,
- 3] The Town of Malabar will, upon securing such funding or other necessary resources, seek to implement the proposals contained in its section of the strategy, and
- 4] The Town of Malabar will continue to participate in the Brevard Prepares Local Mitigation Steering Committee to update and expand the Brevard Prepares Local Mitigation Strategy Plan in the years ahead, and
- 5] The Town of Malabar will further encourage other businesses, industries and community groups within Brevard to also participate in Brevard Prepares to support the Brevard Prepares Local Mitigation Strategy Plan in the years ahead.

This Resolution was moved for adoption by Council Member Borton. The motion was seconded by Council Member VAIL and, upon being put to a vote, the vote was as follows:

Council Member Nancy Borton	<u>Aye</u>
Council Member Brian Vail	<u>Aye</u>
Council Member Steven (Steve) Rivet	<u>Aye</u>
Council Member Jeffrey (Jeff) McKnight	<u>Absent</u>
Council Member Marisa Acquaviva	<u>Aye</u>

This Resolution was then declared to be duly passed and adopted this 7th day of September, 2010.

TOWN OF MALABAR

By:

Thomas M. Eschenberg
Mayor Thomas M. Eschenberg

ATTEST:

Debby K. Franklin
Debby K. Franklin
Town Clerk/Treasurer

(seal)

Approved as to Form and Content:

Karl W. Bohne, Jr.
Karl W. Bohne, Jr., Town Attorney

Brevard County
Brevard Prepares
Local Hazard Mitigation Plan Update

Jurisdictional Hazard
Mitigation Plan for the
Town of Malabar

July, 2010

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**Brevard County
Brevard Prepares**

Local Hazard Mitigation Plan Update

Jurisdictional Hazard Mitigation Plan for the Town of Malabar

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Introduction

This section discusses the current status of the development and implementation of the Brevard County Local Hazard Mitigation Plan in the Town of Malabar, and the next steps that will be undertaken to continue the process of making the community less vulnerable to the potential effects of natural, technological and societal disasters or events.

The Town of Malabar has a slightly growing population of 2872 whose economic base is residential. Occupying 13.2 square miles of which 20% is water, the only anticipated shift in land use may be that more vacant land is converted to residential. (See the attached reports, "**Current Land Uses**", "**Future Land Uses**", and "**Trends in Land Use**".)

There are several aspects of plan implementation that need to be addressed:

- Disaster events that may have affected the community and identified a vulnerable facility, neighborhood, or system
- A continuing examination of facilities and neighborhoods' vulnerability to disasters
- Instances where the Local Mitigation Plan has been incorporated into other planning documents
- Previously proposed mitigation initiatives that have been implemented, completed, or terminated, and their effect on the community
- Future mitigation actions, priorities for implementation of approved mitigation initiatives now incorporated into the plan, and active pursuit of funding opportunities
- The status of promulgation or formal adoption of the plan by the participating jurisdiction

Hazard Events and Hazard Identification

Recent disaster events can be very helpful in highlighting the mitigation needs of the community based on the type, location or magnitude of the impacts experienced. In turn, this can be a major factor in the future progress of implementation of the plan, as Brevard Prepares considers and acts on actual disaster experience by the community. Such recommendations can be referred to a "lead" agency with the intention that that organization will use the information to propose additional mitigation initiatives for incorporation into the plan.

Since 2004 Malabar reported six significant disaster events, resulting in more than \$639,000 in damages and response costs. (See the attached report, "**Hazard Events for this Jurisdiction**".)

The highest ranked hazards for this jurisdiction were Major Fire-Wildland, Radiological accidents, and Loss of Electrical Services. For this update, however, town officials re-ranked the hazards to decrease the importance of Loss of Water and Loss of Sewer Service. The rankings of all potential hazards are found in the attached reports, "**Hazard Identification by Jurisdiction**", "**Analysis of Priority Hazards for Malabar**", and "**Comparison of Jurisdictional Relative Risk**". While city officials assessed all hazards, many did not rank high enough to provide a positive score and therefore, are not represented in these reports.

Previous mapping projects indicated that in a Category 3 Hurricane, the city could experience peak wind speeds of 123 mph, and in a 10-year Tropical Event, the city could experience peak wind speeds of 70 mph.

Currently, there are no repetitive flood loss properties within the jurisdiction, as defined pursuant to the National Flood Insurance Program.

Facilities and Neighborhoods

During this update, town representatives increased the number of designated critical facilities from six to eight. All facilities are found in the attached reports, "**Vulnerabilities of Designated Critical Facilities**", "**Detailed Report on Facility Vulnerability Assessments**", "**Facility Vulnerability Scores**", and "**Critical Facilities Identified by Jurisdiction**".)

In addition, for this update, the number of neighborhoods added to the Plan was increased from three to eight. They were examined in the context of the number of structures, the value of structures, the approximate number of persons living there, and therefore, the potential cost to persons and property should a variety of hazard events strike. These neighborhoods are found in the attached reports, "**Neighborhood Types and Structure Characteristics**", and "**Neighborhood Vulnerability Assessment Score**".

Previous mapping projects indicated for 10-year tropical events, and Category 3 Hurricanes. Among critical facilities, none are at high risk of flood or surge but all are at high wind risk.

With these completed assessments as a starting point, Malabar can continue to identify and assess additional critical facilities during the next planning period. (See the attached report "**Percent of Neighborhoods and Facilities Assessed by Jurisdiction**".) Also, the neighborhoods and critical facilities already assessed will be further considered in light of the hazards they are most vulnerable to, and mitigation initiatives developed where appropriate.

Mitigation Policies and Plans

For this update, additional policies or plans were not reviewed or added to those 62 already identified and included in the last plan update. These policies are from the Comprehensive Plans, Land Development Code, and Code of Ordinances. (See the attached reports, "**Mitigation-Related Policies and Programs**" and "**Current Hazard Mitigation Codes**".) However, efforts were made to identify areas of integration of the Local Mitigation Plan with other plans. Malabar's 2009 Comprehensive Plan included in its Capital Improvements Plan, a schedule of two mitigation initiatives for flood prevention as a result of Tropical Storm Fay. They are documented in the above-mentioned "Policies and Programs" report on page 2. Since the fire emergency of 2008, the town has been conducting controlled burns and Firewise program meetings as well.

The town may wish to identify any other policies or plans that relate to the other high-ranking hazards and document them, or if there are none, to consider where shortfalls may be addressed through non-structural initiatives.

The town is a participant in the NFIP Program. (See the attached report "**Status of Participation in National Flood Insurance Program**".) Currently, the town has no letter of map change for its Flood Mapping project.

Status of Previous Initiatives

The implementation of the mitigation initiatives proposed as a result of Brevard Prepares' planning process is an important measure of the progress in implementation of the Brevard County Local Hazard Mitigation Plan. As the participants in the planning are able to implement more and more of the proposed initiatives that have been incorporated into the plan, the facilities, systems and neighborhoods of Brevard County can become more and more resistant to the impacts of future disasters.

Of course, the true measure of progress in the implementation of mitigation initiatives is their effectiveness in saving lives, avoiding property damage and protecting valuable or irreplaceable resources in the community. And there will be more opportunities to measure the "success" of Brevard Prepares' mitigation efforts.

One initiative has been implemented since the last planning period, to mitigate flooding. (See the attached report, "**Completed/Implemented Mitigation Initiatives**".)

Future Mitigation Action

Two initiatives have been included for this planning period, involving the hardening of facilities critical to city operations. (See the attached report, "**Mitigation Initiatives Currently Proposed**".) Five additional mitigation initiatives have been proposed during preparation of this update which will be brought to the next Steering Committee meeting, as a result of the disaster events of 2008.

As a part of its future planning process, Brevard Prepares also will periodically review the proposed mitigation initiatives approved for incorporation into the plan to determine their priority for implementation during the next planning period. This assessment will provide guidance to the individual jurisdictions and organizations proposing the initiatives to encourage them to focus on those designated as priority. However, because each participating jurisdiction or organization has independent authority and responsibility for implementation of their proposed mitigation initiatives under the mitigation planning approach used by Brevard Prepares, the jurisdictions and organizations retain the prerogative to act in their own interests, using their own priorities for mitigation initiative implementation.

In many ways, the priority for implementation assigned to propose mitigation initiatives could be considered a suggestion or recommendation to the proposal sponsors to seek the resources for implementation. These resources may range from the normal budgeting process for the jurisdiction or organization, to seeking state or federal financial or technical support for implementation of the initiative. (The designation "priority for implementation" means that Brevard Prepares recommends that sponsors of those initiatives so classified focus on their implementation as soon as feasible.)

Status of Plan Promulgation and Approval

Promulgation and approval of the plan is a very important step in assuring its implementation. This is an "Individual Jurisdictional Mitigation Plan" which contains all of the jurisdiction-specific information developed to date. Included here are numerous reports based upon data sources developed or coordinated through the efforts of personnel representing the individual jurisdiction participating in the planning process.

It is the expectation of Brevard Prepares that the governing body of each participating jurisdiction will review, consider and act on their Individual Jurisdiction Mitigation Plan in a timely fashion. If the governing body acts in a positive manner, this is basically an approval or endorsement of the proposed mitigation initiatives contained in the corresponding section of the plan. This approval or endorsement, with or without modification by the governing body, represents both consent and commitment by the representatives of that organization or jurisdiction to seek the resources needed to implement the priority initiatives contained therein. Only through actual implementation of the proposed mitigation initiatives contained in this plan can Brevard County be made a more disaster-resistant community. Plan adoption is also important evidence that Malabar is an active participant in the coordinated Local Mitigation Plan effort of Brevard County, and therefore eligible for some types of state or federal funding not available to non-participants.

This action by the Town of Malabar Council documents approval and endorsement of three fundamental aspects of the Brevard County Local Mitigation Plan: 1) it has approved its own, jurisdiction-specific component of the Brevard County plan, and instructed the participating town agencies and organizations to implement the plan; 2) it documents the town's endorsement of the aspects of the countywide planning process that pertain to all participants, such as approving the mitigation goals and objectives established by Brevard Prepares for the countywide plan. (See the report, "**Goals and Objectives for the Local Mitigation Planning Process**"); and 3) it stipulates that, because of the multi-jurisdictional character of the Brevard County mitigation planning process, Malabar has reviewed the mitigation initiatives proposed by other jurisdictions for implementation and has found no reason to object to their implementation or to be concerned otherwise regarding mitigation actions planned by the other participating jurisdictions.

Malabar will pursue formal adoption of this plan following review of a draft of the update by the Florida Department of Community Affairs and the Federal Emergency Management Agency and a finding that the update adequately addresses federal requirements.

Summary

Malabar has been an active participant in the planning process, conducting additional assessments, and proposing further action to mitigate known hazards to critical facilities, in particular. Brevard Prepares recognizes that it will take a long period of time and implementation of many if not all of the proposed initiatives approved for this plan, to make Brevard County a truly disaster-resistant community. However, the continuing dedication to the safety and welfare of the community shown by the participants from Malabar in this planning process will make this goal possible.

**Brevard Prepares
Update of the Brevard County Local Hazard Mitigation Plan
July, 2010**

**Jurisdiction-Specific Local Hazard Mitigation Plan
For the
Town of Malabar**

REPORTS

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**Brevard County
Brevard Prepares
Current Land Uses and Potential for New Development, by Jurisdiction**

Town of Malabar

40 percent of the jurisdiction remains to be developed
0.4 square miles remain to be developed

Current Land Use Category	Percent of Jurisdiction
Agricultural	1%
Commercial	1%
Industrial	1%
Institutional (education, health care, etc.)	1%
Waterway/lake/wetland	18%
Other land use	12%
Parks/restricted wild land/wildlife refuge	1%
Transportation or utility right-of-way	1%
Residential	27%
Vacant/unused - private ownership	36%
Vacant/unused - government ownership	1%

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Brevard County Brevard Prepares Future Land Uses and General Development Trends, by Jurisdiction

Town of Malabar

The current rate of development of vacant or unused land Little or no development occurring
 The current rate of expansion, reconstruction or redevelopment of existing property:
 Very few or no properties

Development/Redevelopment

Currently Controlled By:

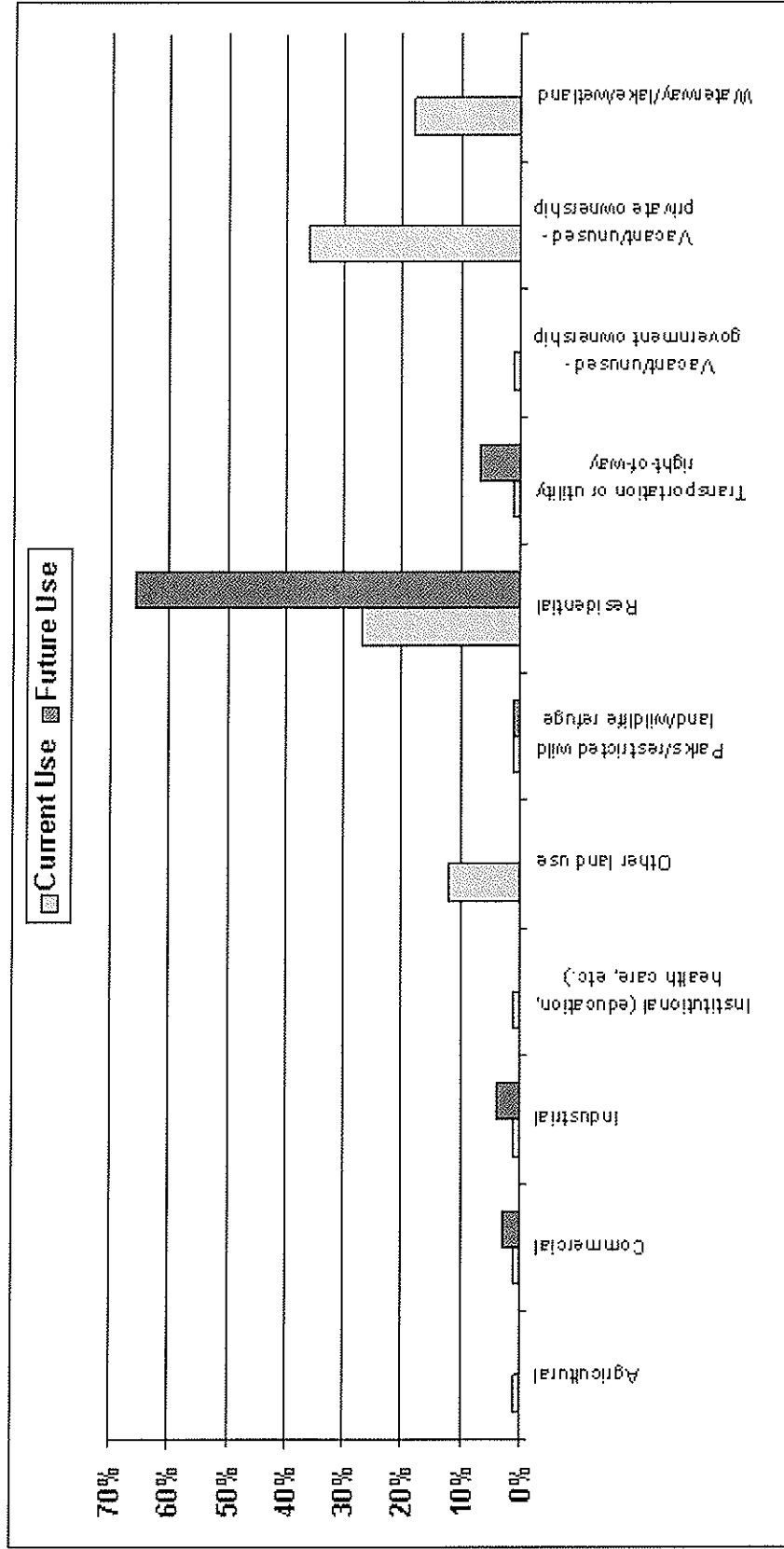
A land use plan

Desired future land uses by the 2013

Future Land Use Category	Percent of Jurisdiction
Residential	66%
Commercial	3%
Industrial	4%
Parks/restricted wild land/wildlife refuge	1%
Transportation or utility right-of-way	7%

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**Brevard County
Brevard Prepares
Land Use Trends for the Town of Malabar**



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**Brevard County
Brevard Prepares
Hazard Events By Jurisdiction**

Town of Malabar

Event Name/Description	Presidential Disaster No.*	Jurisdiction Included In Declared Area	Primary Hazard	Total Event Cost	Total Number Of Deaths, Injuries, and/ or Illness
Hurricane Jeanne	DR-1561	<input checked="" type="checkbox"/>	High Winds	\$328,193	0
Hurricane Charle	DR-1539 FL	<input checked="" type="checkbox"/>	High Winds	\$3,327	0
Hurricane Wilma	DR-1609	<input checked="" type="checkbox"/>	High Winds	\$28,417	0
Tropical Storm Fay	DR-1785	<input checked="" type="checkbox"/>	High Winds	\$39,000	0
Tropical Storm Fay	EM-3288	<input checked="" type="checkbox"/>	High Winds	\$0	0
Fire Emergency Assistance	2765	<input checked="" type="checkbox"/>	Major Fire -Wildland	\$503,862	0
Hurricane Frances	DR-1545	<input checked="" type="checkbox"/>	High Winds	\$239,991	0
Totals For Jurisdiction:				\$1,142,790	0

* Blank if event not declared disaster

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**Brevard County
Brevard Prepares
Hazard Identification by Jurisdiction***

Town of Malabar

Date of Assessment:	Hazard	Impacted Area	Probability of Occurrence	Health & Safety	Property	Environment	Economic	Total Rating
3/24/2004	Major Fire -Wildland	1	5	2	3	1	3	50
3/24/2004	Radiological	4	4	2	1	1	1	36
3/24/2004	Loss of Electrical Service	3	5	1	1	0	2	35
3/24/2004	Telecommunications	4	5	1	0	0	1	30
3/24/2004	Hazardous Materials	2	4	1	1	1	1	24
3/24/2004	Lightning	1	4	1	1	1	1	20
3/24/2004	Drought	3	4	0	0	1	1	20
3/24/2004	Flooding	4	2	1	2	0	3	20
2/2/2010	Infestation, Disease	2	4	1	0	0	1	16
3/24/2004	High Winds	1	2	1	1	1	1	10
9/20/2009	Loss of Sewer Service	1	2	0	0	1	1	6
3/24/2004	Hail	1	1	1	2	1	1	6
9/20/2009	Loss of Water Service	1	2	1	0	0	1	6
3/24/2004	Loss of Gas Service	0	2	1	0	1	1	6
3/24/2004	Major Fire - Urban	0	2	1	0	1	0	4
2/2/2010	Severe Winter Storm	0	1	1	0	0	1	2
3/24/2004	Key Employer Crisis	0	1	0	0	0	0	0
3/24/2004	Subsidence/Expansive Soils	0	1	0	0	0	0	0
3/24/2004	Volcano Activity	0	1	0	0	0	0	0
3/24/2004	Crime	0	1	0	0	0	0	0
3/24/2004	Civil Disturbance	0	1	0	0	0	0	0
3/24/2004	Landslide, Erosion	0	1	0	0	0	0	0
3/24/2004	Terrorism	0	1	0	0	0	0	0
1/21/2010	Earthquake	0	1	0	0	0	0	0
3/24/2004	Economic Crisis	0	1	0	0	0	0	0
1/21/2010	Storm surge	0	1	0	0	0	0	0
Total Risk Rating for Town of Malabar:								291

* Risk ratings explained at end of report

Impact Area

- 0 No developed area impacted
- 1 Less than 25% of developed areas impacted
- 2 Less than 50% of developed area impacted
- 3 Less than 75% of developed area impacted
- 4 Over 75% of developed area impacted

Property

- 0 No property damage
- 1 Few properties destroyed - few properties damaged
- 2 Few destroyed - many damaged
- 3 Many properties destroyed and damaged

Probability of Occurrence

- 1 Unknown but rare occurrence
- 2 Unknown but anticipate an occurrence
- 3 100 years or less occurrence
- 4 25 years or less occurrence
- 5 Once a year or more occurrence

Environment

- 0 Little or no environmental damage
- 1 Resources damaged with short term recovery practical
- 2 Resources damaged with long term recovery feasible
- 3 Resources destroyed beyond recovery

Health & Safety

- 0 No Health and Safety impact
- 1 Few injuries/illnesses
- 2 Few fatalities but many injuries/illnesses
- 3 Numerous fatalities

Economic

- 0 No economic impact
- 1 Low direct and/or low indirect costs
- 2 High direct & low indirect costs
- 3 Low direct & high indirect costs
- 4 High direct & high indirect costs

**Brevard County
Brevard Prepares
Analysis of Priority Hazards for Town of Malabar**

The highest priority hazards for Town of Malabar have been identified as the following:

Hazard	Vulnerability	Hazard	Vulnerability
Major Fire -Wildland	50	Radiological	36
Loss of Electrical Service	35	Telecommunications	30
Hazardous Materials	24	Flooding	20
Lightning	20	Drought	20
High Winds	10	Hail	6
Loss of Water Service	6	Loss of Sewer Service	6
Loss of Gas Service	6	Earthquake	5
Major Fire - Urban	4	Infestation, Disease	3
Storm surge	1		

There have been 8 critical facilities identified for this jurisdiction. There have also been 8 neighborhoods identified for this jurisdiction.

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**Brevard County
Brevard Prepares
Comparison of Jurisdictional Relative Risk**

Town of Malabar

Hazard Category Hazard	Total Natural Hazard Risk Rating: 139	Date of Analysis	Probability of Occurrence	Impacted Area	Consequence Ratings*				
					Health & Safety	Property	Environment	Economic	
Natural									
Lightning		3/24/2004	4	1	1	1	1	1	1
Drought		3/24/2004	4	3	0	0	1	1	1
Earthquake		3/24/2004	1	0	0	2	0	0	3
Flooding		3/24/2004	2	4	1	2	0	0	3
Hail		3/24/2004	1	1	1	2	1	1	1
High Winds		3/24/2004	2	1	1	1	1	1	1
Infestation, Disease		3/24/2004	1	3	0	0	0	0	0
Landslide, Erosion		3/24/2004	1	0	0	0	0	0	0
Volcano Activity		3/24/2004	1	0	0	0	0	0	0
Severe Winter Storm		3/24/2004	1	0	0	0	0	0	0
Major Fire - Urban		3/24/2004	2	0	1	0	1	1	0
Major Fire -Wildland		3/24/2004	5	1	2	3	1	1	3
Subsidence/Expansive Soils		3/24/2004	1	0	0	0	0	0	0
Storm surge		9/20/2009	1	0	0	0	0	0	1
Societal									
Crime		3/24/2004	1	0	0	0	0	0	0
Terrorism		3/24/2004	1	0	0	0	0	0	0
Civil Disturbance		3/24/2004	1	0	0	0	0	0	0
Key Employer Crisis		3/24/2004	1	0	0	0	0	0	0
Economic Crisis		3/24/2004	1	0	0	0	0	0	0

* See explanation of ratings at the end of the report.

Consequence Ratings*

Hazard Category Hazard	Probability of Occurrence	Impacted Area	Consequence Ratings*			
			Health & Safety	Property	Environment	Economic
Technological						
Total Technological Hazard Risk Rating: 143						
Telecommunications	Date of Analysis : 3/24/2004	4	1	0	0	1
Loss of Electrical Service	Date of Analysis : 3/24/2004	3	1	1	0	2
Radiological	Date of Analysis : 3/24/2004	4	2	1	1	1
Loss of Water Service	Date of Analysis : 9/20/2009	1	1	0	0	1
Loss of Gas Service	Date of Analysis : 3/24/2004	0	1	0	1	1
Loss of Sewer Service	Date of Analysis : 9/20/2009	1	0	0	1	1
Hazardous Materials	Date of Analysis : 3/24/2004	2	1	1	1	1

Total Town of Malabar Risk Rating: 282

Impact Area

- 0 No developed area impacted
- 1 Less than 25% of developed areas impacted
- 2 Less than 50% of developed area impacted
- 3 Less than 75% of developed area impacted
- 4 Over 75% of developed area impacted

Property

- 0 No property damage
- 1 Few properties destroyed - few properties damaged
- 2 Few destroyed - many damaged
- 3 Many properties destroyed and damaged

Probability of Occurrence

- 1 Unknown but rare occurrence
- 2 Unknown but anticipate an occurrence
- 3 100 years or less occurrence
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- 5 Once a year or more occurrence

Environment

- 0 Little or no environmental damage
- 1 Resources damaged with short term recovery practical
- 2 Resources damaged with long term recovery feasible
- 3 Resources destroyed beyond recovery

Health & Safety

- 0 No Health and Safety impact
- 1 Few injuries/illnesses
- 2 Few fatalities but many injuries/illnesses
- 3 Numerous fatalities

Economic

- 0 No economic impact
- 1 Low direct and/or low indirect costs
- 2 High direct & low indirect costs
- 3 High direct & high indirect costs

**Brevard County
Brevard Prepares
Vulnerabilities of Designated Critical Facilities, by Jurisdiction**

Town of Malabar

<p>Facility Name: Fire Station Facility Address: 1840 Malabar City: Malabar</p>	<p>Zip Code: 32950-</p>	<p>Primary Vulnerabilities* Lightning Communications Loss Health and Safety Impact Community Service Impact</p>
<p>Facility Name: Lift Station Facility Address: Briarcreek DR City: Malabar</p>	<p>Zip Code: 32950-</p>	<p>Primary Vulnerabilities* Power Loss Lightning Sewer Service Loss Health and Safety Impact Economic Impact Community Service Impact Environmental Impact</p>
<p>Facility Name: Malabar Community Park Facility Address: 1850 Malabar RD City: Malabar</p>	<p>Zip Code: 32950-</p>	<p>Primary Vulnerabilities* Flooding Storm Surge Lightning Major Fire</p>
<p>Facility Name: Malabar Rd. Babcock St. to US 1 RT 514 Facility Address: Malabar Rd. Babcock St. to US 1 RT 514 City: Malabar</p>	<p>Zip Code: 32950-</p>	<p>Primary Vulnerabilities* Storm Surge</p>
<p>Facility Name: Public Works Facility Address: 1435 Centre City: Malabar</p>	<p>Zip Code: 32950-</p>	<p>Primary Vulnerabilities* Power Loss Lightning Communications Loss Health and Safety Impact Community Service Impact</p>
<p>Facility Name: Town Hall Facility Address: 2725 Malabar City: Malabar</p>	<p>Zip Code: 32950-</p>	<p>Primary Vulnerabilities* Power Loss Lightning Communications Loss Health and Safety Impact Community Service Impact Historic Value</p>

* Categories with a vulnerability rating of 3

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Brevard County Brevard Prepares Detailed Report on Facility Vulnerability Assessments, by Jurisdiction

	Vulnerability Criteria*																		
	Subject to High Winds	Vulnerability to Earthquake	Subject to Volcanic Activity	Vulnerable to Lightning	Vulnerable to Roadway Blockage	Vulnerable to Winter Storms	Subject to Earth Movement/loss	Vulnerability to Storm Surge	History of Damage	Subject to Major Urban or Wildland Fire	Hazardous Materials	Environmental Problems could occur	Disruption Causes Psychological Hardship	Disruption would have Economic Impact	Facility has Historic Value	Subject to a Radiological Accident	Subject to Major Hail Storm	Vulnerable to Drought	Vulnerable to Terrorist Attack

Town of Malabar

Fire Station	1840 Malabar	Malabar
1	0	3
0	0	2
1	1	3

Malabar Rd. Babcock St. to US 1 RT 514

Malabar Rd. Babcock St. to US 1 RT 514	Malabar
0	0
2	0
3	0

Public Works

1435 Centre	Malabar
2	0
0	0
1	3

* Ranking explanation provided at the end of report
This report shows only facilities which have been assessed

Vulnerability Criteria*

Subject to High Winds	Vulnerability to Earthquake	Subject to Volcanic Activity	Vulnerable to Lightning	Vulnerable to Roadway Blockage	Vulnerable to Winter Storms	Subject to Earth Movement/loss	History of Damage	Disruption Causes Psychological Hardship	Environmental Problems could occur	Hazardous Materials	Vulnerable to Drought	Vulnerable to Terrorist Attack	Vulnerable to Civil Disorder
Vulnerability to Flooding	Subject to Storm Surge	Vulnerable to Power Outage	Dependent on Water Supply	Disruption Creates Health & Safety Hazard	Disruption would have Economic Impact	Facility has Historic Value	Subject to a Radiological Accident	Subject to Major Urban or Wildland Fire	Subject to a Radiological Accident	Subject to Major Urban or Wildland Fire	Vulnerable to Hail Storm	Subject to Employment Crisis	Vulnerable to Disease Outbreak
Malabar Community Park													
0	0	0	3	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	3	0	0	0
3	0	1	0	0	0	0	0	0	0	0	0	0	0
Lift Station													
1850 Maiabar RD Malabar													
0	0	0	3	0	0	2	3	0	0	0	0	0	0
0	0	0	0	3	3	3	0	0	0	2	0	0	0
0	2	3	0	3	3	3	0	0	0	0	0	0	0
Babcock St. Malabar													
0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	2	0	0	0	0	0	0	0
0	0	0	0	0	0	2	0	0	0	0	0	0	0
Rocky Point Drive													
Town of Malabar													
0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	2	2	0	0	0	0	0	0	0
3	0	0	0	2	2	2	0	0	0	0	0	0	0
Town Hall													
2725 Malabar Malabar													
0	0	0	3	3	0	0	0	0	0	0	0	0	0
1	0	0	0	2	0	0	3	1	0	0	0	0	0
1	0	3	0	3	3	3	0	0	0	0	0	0	0

* Ranking explanation provided at the end of report
This report shows only facilities which have been assessed

Definition of vulnerability criteria

Vulnerability Category	Vulnerability Criteria	Vulnerability Criteria Definition
Subject to High Wind	0	Facility is not vulnerable due to construction type, roof configuration and wall opening size or protection; no nearby trees
	1	Wall opening size/lack of protection may cause window/door failure and/or with few nearby trees; nonessential external equipment not vulnerable.
	2	Vulnerable due to wall opening size/lack of protection, roof configuration, and/or several nearby trees; essential external equipment is vulnerable
	3	Very likely to be damaged or destroyed in a high wind, because it is a mobile or fragile structure or wall openings and can be expected to fail.
Vulnerable to Flooding	0	The structure is known to not be located in a flood plain or flood prone area
	1	Structure is in a flood plain or flood prone area but has no prior history of flood damage
	2	Structure is in a flood plain or flood prone area and has experienced some limited flood damage in the past
Vulnerable to Storm Surge	0	Structure is in a flood plain or flood prone area and has experienced significant flood damage, or the property is an NFIP repetitive loss property.
	1	Structure is known to not be located in a storm surge inundation area
	2	Structure is located in a storm surge area for a Category 4 or 5 hurricane
History of Damage	0	Located in a storm surge zone for a Category 3 hurricane, but has no prior damage
	1	Located in a Category 1 or 2 hurricane surge zone, or has experienced prior surge damage
	2	The facility has no history of damage from any type of disaster or major emergency.
Vulnerable to Earth Movement/loss	0	The facility has experienced damage or loss of function costing less than \$10,000 from a single disaster episode in the past.
	1	The facility has experienced damage or loss of function costing more than \$10,000 from a single disaster episode in the past.
	2	The facility has had more than one episode with total damage or loss of function costing more than \$10,000, or is a NFIP repetitive loss property
Vulnerable to Power Outage	0	Facility is not vulnerable to electricity or gas outage and other utilities would still function, or, it has a standby generator and/or gas supply
	1	Facility is located on a site not considered vulnerable to landslide, erosion or avalanche
	2	Facility is on sloping or waterside site with moderate vulnerable to landslide or erosion, and/or is near but not in an avalanche runoff zone
Vulnerable to Lightning	0	On a sloping/waterside site with soils prone to landslide or erosion, and/or is in potential avalanche runoff zone, with no history of damage
	1	On a sloping or waterside site highly vulnerable to landslide or erosion, is in a predicted avalanche runoff zone, or has history of such damage
	2	Facility is not vulnerable to electricity or gas outage and other utilities would still function, or, it has a standby generator and/or gas supply
Vulnerable to Roadway Blockage	0	Facility could be damaged by electricity or gas outage, and onsite electric generator or standby gas supply can only support limited operations.
	1	Dependent on continuing electricity or gas supply, and damage or loss of function to the facility itself could occur.
	2	Dependent on electricity or gas supply, and loss of function would cause large community economic losses or health/safety risks.
Vulnerable to Roadway Blockage	0	The facility is not uniquely vulnerable to lightning strike or has been equipped with lightning protection
	1	Facility position and/or height makes it somewhat vulnerable, but there is no history of damage or loss of operation from any past events
	2	Facility position and/or height makes it clearly vulnerable to lightning, and has a history of structure and/or contents damage or loss of function
Vulnerable to Roadway Blockage	0	Facility position and/or height makes it clearly vulnerable to lightning, and past damage/ disruption caused significant economic or safety impacts
	1	Facility has multiple access/egress routes or has a protected single route without adjacent trees, power lines, or flood prone areas
	2	Facility has single route of access/egress with some adjacent trees, power lines, or areas that flood in severe rainstorms.
Vulnerable to Roadway Blockage	0	Has single access route with many adjacent trees, power lines, or areas flooding moderate rainfall, or blockage causes large facility costs
	1	Has single access route with numerous adjacent trees, power lines, or that floods routinely, or blockage would cause large
	2	Has single access route with numerous adjacent trees, power lines, or that floods routinely, or blockage would cause large

	community costs	
	0	The facility can maintain operations without its normal water supply for at least 72 hours
Dependent on Water Supply	1	The facility would have to curtail operations somewhat without its normal water supply, with some limited economic consequences
	2	The facility would have to stop operations without its normal water supply, with significant economic or potential health and safety consequences.
	3	The facility must not lose its normal water supply or serious health and safety consequences will occur
Vulnerable to Sewer System Outage	0	The facility can maintain operations without sewer service
	1	The facility would have to curtail operations somewhat without sewer service, with some limited economic consequences
	2	The facility must not lose its sewer service or serious health and safety consequences will occur
Dependent on Communications	0	Operation of this facility would not be significantly curtailed by a communications system failure
	1	Communications system failure would require facility operations to be curtailed with a moderate economic loss to the facility
	2	Communications system failure would require facility operations to stop with a significant economic loss to the facility
	3	Communications system failure would halt operations with a significant economic loss to the community and/or would endanger health/safety
Disruption would Cause a Health and Safety Hazard	0	Disruption of facility operations has no effect on health and safety in the surrounding areas or the community
	1	Disruption of facility operations has the potential to cause minor health/safety impact on adjacent populated areas but not the community
	2	Disruption of operations would have a health/safety impact on adjacent populated areas or would have a moderate effect on the community
	3	Disruption of facility operations immediately endangers adjacent populated areas or has a substantial community health and safety impact
Disruption would cause Psychological Damage	0	Damage/disruption of facility operations would be largely unnoticed in normal community activities, and no psychological hardship would result
	1	Damage/disruption of facility operations would prevent or disrupt 1 or 2 important community activities and would be noticed occasionally
	2	Damage/disruption of facility operations would prevent or disrupt several valuable activities and would be noticed on a daily basis
	3	Disruption of operations would prevent or disrupt numerous activities and would require significant changes in community life style
Disruption would have Economic Impact	0	The facility has no significant financial or employment relationship to the community
	1	A mid-sized employer and is one of many in the community, and is only slightly responsible for direct/indirect community revenue
	2	A large employer, providing 10% or more of the community's jobs, or is responsible for up to 25% of direct/indirect community revenue
	3	Provides more than 50% of the community's jobs, or is responsible for nearly all of the direct/indirect community revenue generated
Disruption impacts Community Services	0	The facility does not provide any significant community service or products used by the community
	1	Provides services/products frequently used by the community and disruption of operations would cause significant public inconvenience
	2	Provides important services/products needed continually and disruption of facility operations could cause health/safety impacts
	3	Provides critically needed services or products on a daily basis and disruption of facility operations would cause health and safety impacts
Environmental Problems would Occur	0	Damage to the facility or disruption of operations would not have any significant impact on the natural environment
	1	Facility damage/disruption would release materials that would have short-term effect on the natural environment of adjacent areas
	2	Releases from damage/disruption would have short-term effect on valuable adjacent resources or a long-term effect on the adjacent environment
	3	Releases from damage/disruption would have long-term effect on valuable adjacent resources, or irreparably harm the adjacent environment
Facility has Historic Value	0	The facility has no historic or cultural value
	1	Facility may have historic value if investigated, or damages to the facility or contents could be repaired without compromise to the that value

	2	Known to have historic value, or damages to the facility or contents could not be repaired without some compromise to its historic value
	3	Facility is officially listed as a historic site, or damages to the facility or its contents would irreparably harm its historic or value
Facility Impacts Agriculture	0	Damage to the facility or disruption to its operations would have no impact on agricultural activities in the community
	1	Damage/disruption to facility operations would cause agricultural activities to be temporarily disrupted with a minor economic loss
	2	Damage/disruption to facility operations would cause agricultural activities to be significantly disrupted and cause a large economic loss
	3	Damage/disruption to facility operations would cause agricultural activities to be disrupted for a full season or more, closing related enterprises
Facility disruption would cause a hazardous materials incident	0	Facility is not a hazmat site, and is not located within 0.5 miles of a designated hazmat site, major highway, or railroad
	1	Facility has potential hazmat onsite below reporting volumes, or is within 0.25 miles of a designated hazmat site, major highway or railroad
	2	The facility is designated as a hazmat site, or is located adjacent to a designated hazmat site, major highway or railroad
	3	Facility is a hazmat site with extremely hazardous substances, or the facility has either caused or experienced a damaging hazmat accident
Facility is vulnerable to a major fire	0	Meets the current fire code, has adequate separation from other structures and good access, and is not close to heavily vegetated areas
	1	Meets the current code, is not close to heavily vegetated areas, but access and/or separation from nearby structures increase fire risk
	2	Does not meet current fire code, is in/adjacent to large vegetated areas, and has inadequate access and/or separation from other structures
	3	Does not meet the current code, is in/adjacent to vegetated areas, with access limitations/structure separation make fire suppression difficult
Vulnerability to Earthquakes	0	The facility is not located in an area considered to have any significant risk of earthquake
	1	In an area considered as low earthquake risk or has been constructed/retrofitted to comply with the current earthquake building codes
	2	In an area considered as moderate earthquake risk and has not been constructed/ retrofitted to comply with the current earthquake codes.
	3	In an area considered as high earthquake risk and has not been constructed/retrofitted to comply with the current earthquake codes
Subject to Earthquake	0	Facility is not located in or near an area with significant risk from volcanic activity
	1	In or near an area that could receive some ashfall, but has no structural features, equipment or operations considered vulnerable to ash
	2	Facility is located in or close to an area where heavy ashfall or debris flow could occur.
	3	Facility is located in an area known to have experienced heavy ashfall, debris flow or blast effects from past volcanic activity
Vulnerable to Winter Storms	0	The facility would not suffer any damage or operational disruption from a winter storm
	1	The facility could suffer some damage or minor operational disruption from a winter storm
	2	The facility has suffered damages or significant operational disruption from past winter storms
	3	Facility has suffered damages or significant disruption from past storms which has had serious community economic or health consequences
Subject to a Radiological Accident	0	The facility is not located within 50 miles of a nuclear power plant and is not within 1 mile of an interstate highway or railroad
	1	The facility is located between 10 and 50 miles of a nuclear power plant or is within 1 mile of an interstate highway or railroad
	2	The facility is located between 2 and 10 miles from a nuclear power plant, or is within 0.5 miles of an interstate highway or railroad
	3	The facility is located within 2 miles of a nuclear power plant or is adjacent to an interstate highway or railroad
Vulnerable to Drought	0	The facility is served by a water supply that is known to be adequate under drought conditions
	1	The facility is served by a water supply that is likely to fail under severe drought conditions
	2	The facility is served by a water supply that is likely to fail under moderate drought conditions
	3	Facility's water supply is predicted to fail under moderate drought conditions or significant water supply problems have been experienced
Vulnerable to Hail Storm	0	The construction of the facility has no surfaces or equipment that are likely to be damaged by large hail
	1	The facility has equipment or surfaces that could be damaged by large hail, but operation of the facility would not be disrupted

	2	The facility has equipment or surfaces that would be damaged by large hail, and operation of the facility may be disrupted
	3	Facility's equipment/surfaces would be damaged by large hail, and operations would be disrupted, or, it has significant past hail damage
Vulnerable to Disease Outbreak	0	Infestation or disease outbreak are not related in any way to the facility
	1	Facility operations could contribute to the spread of an infestation or disease that originated elsewhere
	2	The facility could be the source of an infestation or disease outbreak under unusual or unexpected conditions
	3	The facility could be the source of an infestation or disease outbreak under normal operational circumstances
Subject to Expansive Soils	0	The facility is not located over geologic formations with any potential for subsidence and the site is in an area free of expansive soils.
	1	Over formations with limited potential subsidence or expansive soils may be present, and there is no previous damage from these hazards
	2	Over formations of known potential for subsidence or site is likely to have expansive soils, but there is no history of this type of damage
	3	Over formations of known potential for subsidence or the site has expansive soils and there is a history in the area of this type of damage
Vulnerable to Civil Disorder	0	Facility is in an area with no economic or political indicators of a potential for civil disorder and the area has never experienced an episode.
	1	Facility is in an area with limited economic or political indicators of a potential for civil disorder, although the area has never had an episode
	2	In an area with widespread economic or political indicators of a potential for civil disorder, although the area has never had an episode
	3	In an area with widespread economic or political indicators of a potential for civil disorder, and the area has experienced at least one episode
Vulnerable to Terrorist Attack	0	Facility is not considered to be a terrorist target and is not located in close proximity to a facility that is considered to be a terrorist target
	1	The facility can be considered a possible target for a terrorist attack, or has a target vulnerability rating of between 1 and 6
	2	The facility should be considered as a target for terrorist attack, or has a target vulnerability rating of between 6 and 9
	3	The facility is considered to be at high risk for a terrorist attack, or has a target vulnerability rating of more than 10
Subject to Employment Crisis	0	Strikes/work stoppage at the facility are illegal or would not significantly affect its operations or cause significant community consequences
	1	Strikes/ work stoppage at the facility would curtail facility operations with a small financial impact on the community
	2	Strikes/work stoppage at the facility would halt facility operations with a moderate financial impact on the community
	3	Strike or work stoppage at the facility would halt operations with a major financial or health/safety impact on the community

**Brevard County
Brevard Prepares
Facility Vulnerability Scores, by Jurisdiction**

Town of Malabar

Facility	Facility	City	Total Vulnerability Score
Babcock St. Fire Station	1840 Malabar	Malabar	6
Lift Station	Briarcreek DR	Malabar	22
Malabar Community Park	1850 Malabar RD	Malabar	27
Malabar Rd. Babcock St. to US 1 RT 514	Malabar Rd. Babcock St. to US 1 RT 514	Malabar	13
Public Works	1435 Centre	Malabar	11
Rocky Point Drive		Town of Malabar	21
Town Hall	2725 Malabar	Malabar	11
			23

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**Brevard County
Brevard Prepares
Critical Facilities Identified, by Jurisdiction**

Town of Malabar

Facility Name or Designation <small>Coordinates</small>	Facility Owner	Facility	Street or Location Description	City	State	Zip code	Latitude	Longitude
Fire Station		Emergency services center	1840 Malabar	Malabar	FL	32950		
Lift Station		Water system facility	Briarcreek DR	Malabar	FL	32950		
Lift Station		Waste water control facility	730 Malabar Rd	Town of Malabar	FL	32950-4427		
Malabar Community Park		Other critical facility type	1850 Malabar RD	Malabar	FL	32950		
Malabar Rd, Babcock St. to US 1 RT 514		Key transportation/evacuation route	Malabar Rd. Babcock St. to US 1 RT 514	Malabar	FL	32950		
Public Works Town Hall	Town of Malabar	Public works facility	1435 Centre	Malabar	FL	32950		
Valkaria RD		Government offices	2725 Malabar	Malabar	FL	32950		
		Key transportation/evacuation route	Valkaria RD	Town of Malabar	FL	42950-4427		

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**Brevard County
 Brevard Prepares
 Neighborhood Vulnerability Characteristics:
 Neighborhood Types and Structure Characteristics, by Jurisdiction**

Town of Malabar

Neighborhood	Neighborhood Type	Predominant Structure Type	Number of Structures	Average Value of Structures
Brook Hollow	Residential		136	\$175,000.00
Camelot	Residential	Mobile or temporary	174	
Country Cove	Residential		43	\$250,000.00
Enchanted Lakes	Residential	Mobile or temporary	150	
Southern Comfort	Residential	Mobile or temporary	60	
Stillwater	Residential		12	\$500,000.00

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**Brevard County
Brevard Prepares
Neighborhood Vulnerability Assessment Scores**

Jurisdiction	Neighborhood Name	Neighborhood Type	Neighborhood Boundaries	Total Vulnerability Score
Town of Malabar				
	Brook Hollow	Residential		2
	Camelot	Residential		10
	Country Cove	Residential		1
	Enchanted Lakes	Residential		10
	Oakmont Preserve	Residential		1
	Southern Comfort	Residential		7
	Weber Woods	Residential		1

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**Brevard County
Brevard Prepares
Percent of Neighborhoods and Facilities Assessed by Jurisdiction**

Jurisdiction	Total Neighborhood	% Neighborhoods Assessed	Total Facilities	% Facilities Assessed
Town of Malabar	8	87.5%	8	100.0%

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**Brevard County
Brevard Prepares
Mitigation-Related Policies and Programs by Jurisdiction**

Town of Malabar

Citation	Statement	Applies To
Document: Capital Improvement Plan		
IE.4-4.1.1	Require retention of open space for all development to preserve aquifer***	
Document: Code of Ordinances		
9.3.2	Minimize expenditure of public money for costly flood control projects.***Refers to alterations of isolated 100-year floodplain	All areas
9.3.6	...providing for the sound use and development of flood-prone areas...***	All areas
9.3.7	Ensure ... home buyers are notified that property is in a flood area.***	All areas
9.5	Basis for establishing areas of special flood hazard.***	All areas
9.5.	Variations shall not be issued within any designated floodway ...***	All areas
9.5.11	The costs of providing gov. services during and after flood conditions...***	All areas
9.5.3	The susceptibility of the proposed facility ... to flood damage ...***R	All areas
9.5.9	The safety of access to the property in times of flood ...***efers to alteration of isolated 100-year floodplains	All areas
9.91	General standards for all areas of special flood hazard.***	All areas
9.91.	(1) Residential construction ... no lower than the base flood elevation...***	All areas
9.91.(3)b	Electrical, plumbing ... prohibited below the base flood elevation.***	All areas
9.91.(4)a	(4) Floodways ... Prohibit encroachments ...***efers to alteration of isolated 100-year floodplains	All areas
9.91.3	New construction ... shall be constructed ... resistant to flood damage.***efers to alteration of isolated 100-year floodplains	All areas
9.91.4	New construction ... shall be constructed [to] ... minimize flood damage.***	All areas
9.93.	... areas of special flood hazard...designated as shallow flooding areas.***efers to alteration of isolated 100-year floodplains	All areas
9.93.1.a	All subdivision proposals shall ... minimize flood damage.***	All areas
9.93.1.b	All subdivision [utilities] ... constructed to minimize flood damage.***Excepting parks and recreation	All areas
9.93.1.c	... adequate drainage to reduce exposure to flood hazards.***	All areas
9.93.1.d	Base flood elevation data shall be provided for subdivision proposals ...***	All areas
III.1.3.3.1	Individual septic tanks ... must receive development orders ...***	All areas
III.1.3.3.3	Regulating Use of Septic Tanks and Wastewater Disposal Fields***	All areas
IV.1.4.1.1	stormwater/flood protection permits required for all development***	All areas
IV.1.4.1.4	Conserve and protect the natural environment ...***	All areas
IV.1.4.1.G	Flood Prone Land and Wetland Preservation...***	All areas
VIII.1.8.11.	Surface water management permit application and review procedures.***Help maintain a stable tax base by providing for the sound use and development of flood-prone areas in such a manner as to minimize flood blight areas.	All areas
VIII.1.8.2.	...responsible stormwater management and flood protection practices...***	All areas
VIII.1.8.5	Surface water management permit application and review procedures.***Ensure that potential home buyers are notified that property is in a flood area.	All areas
VIII.1.8.8	Additional stormwater management policy for flood hazard zones...***	All areas
VIII.1.8.8.1	Additional stormwater management policy for flood hazard zones...***	All areas
VIII.1.8.8.2	The velocity of the regulatory flood must not be adversely altered...***	All areas
VIII.1.8.8.5	The flood protection elevation shall be set for each project...***	All areas
VIII.1.8.8.6	... lowest floor elevated to the flood protection elevation ...***	All areas
VIII.1.8.8.7	... lowest floor elevated to the flood protection elevation ...***	All Permit Applications
VIII.1.8.8.9	Sewage, potable water supply systems ... flood protection elevation.***	All areas
XVII.1.17.1.	Requirements for Central Water Systems***The areas of special flood hazard identified by the Federal Emergency Management Agency in its report entitled "Flood Insurance Study for the Town of Malabar," dated March, 1979, with accompanying flood boundary-floodway map, and the flood insurance study including wave heights...	All areas
Document: Comprehensive Plan		
CE.6-1.2.2	Agricultural activities shall not be conducted adjacent to waterways***	All areas
CE.6-1.2.3	New development in service area must connect to wastewater system***	New
CE.6-1.2.4	Require new development to preserve shoreline vegetation***	New

Citation	Statement	Applies To
CE.6-1.2.7	Where non-potable water is available for irrigation, must be used***	New
CE.6-1.4.1	No wetland development except passive recreation, open space, etc.***	New
Chapter 4 p. 4.6 Drainage Analysis	Install baffle boxes along lagoon	Required Retrofit Only
Chapter 4 p. 4.6 Drainage Analysis	Retrofit ditches	Required Retrofit Only
CME.5-1.1.1	Implement policies to protect the Indian River Lagoon***	All areas
CME.1.1.3	Incorporate criteria in land regs that no native vegetation be removed***	All areas
CME.5-1.1.1	Adopt wetlands protection ordinance to prohibit development***	All areas
CME.5-1.1.5	Coastal development shall not alter tidal flushing/circulation patterns***	All areas
CME.5-1.3.1	Town-funded public facilities shall not be built in CHHA***	New
CME.5-1.4.1	Incorporate policies to direct population concentrations away from CHHA***	New
CME.5-1.7.5	Structures receiving damage of more than 50% must meet current laws***	Redevelopment
FLUE.1-1.3.3	New industry shall not endanger groundwater quality or potable water supply***	New
FLUE.1-3.1	Management of land will be coordinated with natural systems, infrastructure***	New
FLUE.1-3.1.3	Development regs revised to regulate flooded areas, drainage, recharge***	New
FLUE.1-3.5.2	Land development code will protect Indian River Lagoon, drainage, recharge***	New
FLUE.1-3.5.5	Developer/owner responsible for managing on-site runoff***	New
FLUE.1-3.5.6	Potable water supply conserved by enforcing standards of development	New
HE.3-1.3.1	Prohibit structures including mobile homes not hurricane resistant***	All areas
IE.4-1.3.1	Septic tank and package treatment plants stay in service until centralized***	All areas
IE.4-2.1	Reconcile existing service deficiencies with coordinative projects***	All areas
IE.4-3.1.3	Town shall implement adopted master stormwater drainage plan***	All areas
IE.4-4.1.3	Amend stormwater regs to require runoff retention to recharge groundwater***	All areas
Document: Land Development Code		
94-4Sec.IX.P	Proposed use shall not generate hazardous waste without approved	New
Or.94-3.Sec.	Residential sites in aquifer recharge area without central water, 2/u/acre***	New
Ord.94-3.Sec	Impervious surface ratio of 50% for single family residence and 50% open***	New

**Brevard County
Brevard Prepares
Current Hazard Mitigation Codes, by Jurisdiction**

Jurisdiction	Adopted Comprehensive Plan	Adopted Land Use/ Zoning Code	Adopted Fire or Life Safety Code	Adopted Building Code	Building Code Description
Town of Malabar	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FL Building Code

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**Brevard County
Brevard Prepares
Status of Participation in National Flood Insurance Program, by Jurisdiction**

Jurisdiction	Participant in NFIP Program	Participant in the Community Rating System	Current CRS Rating
Town of Malabar	<input checked="" type="checkbox"/>		

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**Brevard County
Brevard Prepares
Completed/Implemented* Mitigation Initiatives**

Town of Malabar

Proposing Organization	Initiative Name	Initiative Description	Date Completed/Implemented
Town Hall/FD/PW	BRV-0001 Piping of a major (48") ditch	The piping of a major drainage ditch situated between a mobile home/RV Park on the south side and ten privately owned mobile homes on the north side. These homes as well as the entire length of property owned by Cameiot RV Park on the south side have been experiencing property losses due to severe erosion of this ditch. The ditch is presently 30 feet deep with a slope of 1:1 and runs a length of 650 feet from the FEC Railroad tracks to the Indian River Lagoon. There is a box culvert under US 1 leading to the lagoon. This proposal would allow piping of the ditch from the RR tracks to US 1. This would effectively eliminate all future drainage and erosion problems with these properties.	12/31/2001

* Completed/implemented mitigation initiatives are those that have been fully implemented, and, for purposes of the plan, will be monitored for effectiveness in the next applicable hazard event.

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**Brevard County
Brevard Prepares
Mitigation Initiatives Currently Proposed***

Town of Malabar

Sponsoring	Initiative	Date Approved by Steering
Town Hall/FD/PW Town Hall/FD/PW	BRV-0212 Shutters for Town Hall. BRV-0213 Shutters at Fire Station.	11/18/1999 11/18/1999

Total Initiatives In Plan: 2

* Regardless of approval status; Does not include completed or terminated initiatives

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Brevard County
“Brevard Prepares”
Goals and Objectives for the Local Mitigation Planning Process

- 1. The disaster-resistant economy will be strengthened**
 1. Local government will establish programs, facilities and resources to support business resumption activities by impacted local businesses and industry
 2. Local government emergency response and disaster recovery plans will appropriately consider the needs of key employers in the community
 3. Local government will encourage community businesses and industries to make their facilities and operations disaster resistant
 4. Components of the infrastructure needed by the community's businesses and industries will be protected from the impacts of disaster

- 2. Local government in partnership with the community will continue to develop, implement and maintain effective mitigation programs**
 1. The capability to effectively utilize data and information related to mitigation planning and program development including “lessons learned”
 2. The effectiveness of mitigation initiatives implemented in the community will be measured
 3. Outreach programs to gain participation in mitigation programs by business, industry, institutions and community groups will be developed/implemented
 4. The community's public and private sector organizations will partner to promote hazard mitigation programming throughout the community
 5. Local elected governing bodies will promulgate the local mitigation plan and support community mitigation

- 3. The health, safety and welfare of our disaster-resistant community will be maintained**
 1. Local governments will establish and enforce building and land development codes that are effective in addressing the hazards
 2. Land use policies, plans and regulations will discourage or prohibit inappropriate location of structures or infrastructure
 3. Local government will ensure that hazard mitigation needs and programs are given appropriate emphasis
 4. Regulations will be established and enforced to ensure that public and private property maintenance is consistent with minimizing vulnerabilities to disaster
 5. Designated evacuation routes will be relocated, retrofitted or modified to remain open before, during and after disaster events, and vehicle access routes to key
 6. The potential for infrastructure system failure because of or during a disaster will be minimized through routine maintenance
 7. Local government will support key employers in the community in the implementation of mitigation measures for their facilities and systems
 8. Facilities in the community posing an extra health or safety risk when damaged or disrupted will be made less vulnerable to the impacts of a disaster
 9. Programs for removal, relocation or retrofitting of vulnerable structures and utilities in hazard areas will be established and implemented
 10. There will be adequate resources, equipment and supplies to meet victims' health and safety needs after a disaster
 11. Adequate systems for notifying the public at risk and providing emergency instruction during a disaster will be available
 12. Local governments will protect high hazard natural areas from new or continuing development
 13. Local jurisdictions will participate fully in the National Flood Insurance Program and the associated Community Rating System
 14. Reconstruction and rehabilitation of structures and utilities in the community will incorporate appropriate hazard mitigation techniques

- 4. Public education will be enhanced to increase the level of disaster awareness**
 1. The community will be periodically updated regarding local efforts in mitigation planning and programming
 2. The owners and operators of businesses and industries in the community will be knowledgeable in appropriate techniques
 3. Managers of public facilities will be knowledgeable in hazard mitigation techniques and the components of the community's mitigation plan
 4. All interested individuals will be encouraged to participate in hazard mitigation planning and training
 5. The public living or working in defined hazard areas will be aware of that fact, understand their vulnerability and know appropriate techniques
 6. Education programs in risk communication and hazard mitigation will continue to be established and implemented

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