

APPENDIX C

APPENDIX C – MITIGATION PROJECTS

Appendix C includes information pertaining to the mitigation projects of the LMS Plan. The Appendix includes the following items:

- Mitigation Action Project Submittal Form
- List of Deferred, Completed, or Deleted Projects
- STAPLEE Scoring for the Projects Included in the Mitigation Action Plan
- Table 6-3 Mitigation Action Plan – Mitigation Initiatives

DRAFT 2015 LMS PLAN UPDATE NOTES:

The LMS Working Group utilizes the STAPLEE system to rank and prioritize the submitted proposed mitigation projects. During the FDEM's review period of the draft 2015 LMS Plan Update document, the Draft LMS Plan will be presented to the public for review and comment through meetings and the project website (See Section II). During this time, the LMS Working Group will continue to accept project submittal forms. Prior to the final adoption of the LMS Plan, the LMS Working Group will review and rank all submitted projects against the STAPLEE system. The updated STAPLEE ranking scoring sheet will be incorporated into this Appendix and the updated project list will be incorporated into Section VI.



POLK COUNTY
LOCAL MITIGATION STRATEGY WORKING GROUP
HAZARD MITIGATION NEW PROJECT/PROGRAM WORKSHEET

This form nominates facilities or projects for consideration by the Polk County Local Mitigation Strategy Working Group for inclusion in the LMS Mitigation Initiatives List. The form may only address one facility or project.

Instructions: Please complete all questions in a complete, concise manner. To check a box, double click on the appropriate box and select “checked” under the default value in the pop-up box. To write in a gray box, double click on the box and write text in the pop-up box.

Applicant Information:

- Date of Application:
- Name of Person Completing Form:
- Title:
- Employer:
- Address:
- Telephone
- Email:

Project/Program Information:

- Project/Program Name (or name of facility):
- Entities Impacted by Project:
- Facilities:
 - Physical Address:
 - Facility Owner:
 - What sector owns the facility:
 - Municipal
 - County
 - State
 - Federal
 - Special District
 - Non-Profit
 - Private

Project Description/Narrative:

Describe the proposed mitigation initiative, including the existing hazard(s), frequency of occurrence, community vulnerability, and explanation of how this initiative mitigates the hazard.

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, 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.

Hazard Type:

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

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 (1) year to complete or implement.
- More than one (1) 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.
- Local Recipient will provide ____ % Match.
- No Match will be provided.

Potential Funding Sources:

STAPLEE ANALYSIS OF PROPOSED INITIATIVE

SOCIAL:

- Will this action easily gain community acceptance? Yes No
- Will this action have an adverse effect on any one segment of the population?
 Yes No N/A
 - If yes, please explain:
- 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?
 Yes No
- Is this action a long-term solution?
 Yes No
- What types of technical/professional expertise will be required to implement the project?
 - Is this expertise available? Yes No
 - If so, what is the cost?
- Will the action create more problems than it solves? Yes No
- How long will it take to complete the project?
 Less than 1 year More than 1 year
Is this a reasonable timeframe? Yes No

ADMINISTRATIVE:

- Does the community have the capability (staff, expertise, time, funding) to implement the action?
 Yes No
If no, please explain what is lacking:
- Does the Community have funding secured and allocated for the project?
 Yes No N/A
- Can the community provide the necessary maintenance of the project?
 Yes No N/A

POLITICAL:

- Is the mitigation action politically acceptable? Yes No
- Is there a local champion for the project to lead the effort? Yes No
- Will the general public support or oppose the project?
 Support Oppose

LEGAL:

- Does the community have the authority to implement the action?
 Yes No
- Are there legal side effects? Could the mitigation action be construed as a taking?

- Yes No
- Will the action comply with local, State, and Federal environmental regulations?
 Yes No
- Do homeowner association bylaws or deed restrictions apply to the project?
 Yes No N/A
- Is the action likely to be challenged by stakeholders whose interests may be adversely affected?
 Yes No N/A

ECONOMIC:

- Do the costs of the action seem reasonable for the size of the problem and the likely benefits?
 Yes No
- What burden will be placed on the local economy to implement and maintain the action?
(Note: Just because an action has costs associated with it does not mean those costs are automatically a burden on the economy)
 None Minimal Moderate Heavy
 - Please explain any response other than NONE:
- Will the action generate additional jobs locally? Yes No
- Does the action contribute to other community goals, such as capital improvements or economic development? Yes No

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? Yes No
 - If yes, please explain:
- How will the action affect the natural environment?
- Will the action require environmental regulatory approvals?
 Yes No
- How will the action affect utility (e.g. stormwater) and transportation systems?

Polk County LMP Plan Update on Deferred, Completed, or Deleted Mitigation Project Initiatives

Jurisdiction Benefitted	Project Type	Description	Mitigation Goal(s) Addressed	Hazard Mitigated*	Address New or Existing	Responsible Agency	Estimated Cost	Possible Funding Source(s)	Time to Complete	Deferred, Completed, or Deleted	If Deleted or Deferred, Why?
All	Education, Public Awareness	Hurricane Expos, educational hands-on opportunities for citizens to learn and understand hurricanes as well as other natural hazards and how to prepare for them.	1,2	All	Both	County Public Safety	\$5,000	Public Safety Admin	Bi-annual	Deferred	Ongoing -- Combined in 2015 Plan
All	Education, Public Awareness	County wide fire prevention month. Effort to educate about fire safety. Includes public events and school visitations	1,2	Wildfire	Existing	Fire Department	\$3,000	Fire Service	Annual	Deferred	Ongoing -- Combined in 2015 Plan
All	Education, Public Awareness	Emergency? 9-1-1:- designed to teach children of all ages how and when to call 9-1-1. What to expect when calling 9-1-1. Encourages callers to know their full name, address and telephone number	1,2	All	N/A	E-911	\$1,000	E-911	Annual	Deferred	Ongoing -- Combined in 2015 Plan
All	Education, Public Awareness	State tornado drill day. Fire fighters participate with schools and students to prepare for tornado strikes.	1,2	Storms	N/A	Emergency Management, Fire Department	\$0	N/A	Annual	Deferred	Ongoing -- Combined in 2015 Plan
All	Education, Public Awareness	Hurricane preparation materials, including shelter maps, emergency kit shopping guides, and newsletters	1,2	Storms	N/A	Emergency Management	\$2,500	E-911	Annual	Deferred	Ongoing -- Combined in 2015 Plan
All	Education, Public Awareness	Fire & Fall Prevention for Older Adults program. Awareness and preparation for fires, 911.	1,2	Wildfire	N/A	Fire Department	\$2,000	Polk Fire	Annual	Deferred	Ongoing -- Combined in 2015 Plan
All	Education, Public Awareness	Public safety education/awareness materials (handouts, safety house, publications, educational items)	1,2	Wildfire, Storms	N/A	Public Safety	\$9,000	Polk Fire	Annual	Deferred	Ongoing -- Combined in 2015 Plan
All	Education, Public Awareness	Firewise Program. Partner with DoF, have community meetings to educate people on how to harden their homes against fires.	1,2,3	Wildfire	Both	Division of Forestry, Fire Department	\$0	N/a	Annual	Deferred	Ongoing -- Combined in 2015 Plan
All	Education, Public Awareness	"Hurry Let's Talk About Hurricanes and Tornadoes" kids program. Summer program camp visits to educate about hurricane and tornado preparation and safety.	1,2	Storms	N/A	Emergency Management, Leisure Services	\$700	Polk EM	Annual	Deferred	Ongoing -- Combined in 2015 Plan
All	Education, Public Awareness	Press release and warnings regarding natural disasters updates.	1,2	All	N/A	Public Safety	\$0	N/A	Recurring	Deferred	Ongoing -- Combined in 2015 Plan
All	Building Retrofit	Retrofit Adult Day Care Centers to serve as Special Needs Shelters.	1,2	All	Existing	Public Safety	\$62,000	HMGP	12-18 Months	Complete	
All	Critical Facilities	Increase current ground storage water reservoir from 150K gallons to 500K gallon	5,6,9	Flood	Existing	Utilities	\$300,000	HMGP	12-18 Months	Deferred	Financial Constraints
Auburndale	Drainage	Relieves flooding and drainage problem at major intersection oh Alberta St	5,6,9	Flood	Both	Auburndale	\$500,000	HMGP, FMA	12-18 Months	Deferred	Financial Constraints

Polk County LMP Plan Update on Deferred, Completed, or Deleted Mitigation Project Initiatives

Jurisdiction Benefitted	Project Type	Description	Mitigation Goal(s) Addressed	Hazard Mitigated*	Address New or Existing	Responsible Agency	Estimated Cost	Possible Funding Source(s)	Time to Complete	Deferred, Completed, or Deleted	If Deleted or Deferred, Why?
Auburndale	Drainage	Properties and Structures on Ariana Blvd. flooded from water flowing from Whistler Est. to Lake Ariana. Current drainage system cannot handle runoff. Project consists of design, permitting and construction of stormwater system	5,6,9	Flood	Both	Auburndale	\$200,000	HMGP	12-18 Months	Deferred	Financial Constraints
Auburndale	Drainage	Area experienced flooding in yards and roads. Project will re-establish drainage ditches. Moss Rd./Jones Rd.	5,6,9	Flood	Both	Auburndale	\$50,000	HMGP	12-18 Months	Deferred	Financial Constraints
Bartow	Stormwater Improvement	Provide needed improvements to substandard stormwater infrastructure	8,9	Flood, Storms	Both	Bartow	\$13,000,000	HMGP	12-18 Months	Deferred	Financial Constraints
Bartow	Stormwater Improvement, Building Retrofit	Provide improvements to 14,700 linear feet of gravity sewer, 25 manholes, and the airbase master lift station	2,8,9	Flood, Storms	Existing	Bartow	\$1,500,000	HMGP	12-18 Months	Deferred	Financial Constraints
Bartow	Critical Facilities	Purchase (220) MHZ 4Ch Mobile Radios for the purpose of establishing compatible communication between city personnel while working emergency services/response actions	1,2	All	N/A	Bartow	\$194,299	HMGP	12-18 Months	Deleted	No longer needed due to radio system upgrades.
Bartow	Building Retrofit, Critical Facilities	Upgrade facility to serve as back up HQ for PCHD, upgrade roof, modify building to support 2 coolers for critical pharmaceuticals, modify electric system and install generator	1,2,10	All	Existing	Health Department	\$250,000	HMGP	12-18 Months	Deferred	Financial Constraints
Bartow	Building Retrofits	Retrofit the Polk St. Recreation Center and Carver Recreation Center to be used by nearby residents as hurricane shelters	1,2,10	Storms	Existing	Bartow	\$35,000	HMGP	12-18 Months	Deferred	Financial Constraints
Davenport	Drainage	Area experienced flooding in yards due to inadequate drainage system. Phase I - feasibility study to determine how to handle stormwater runoff; phase II - construction, if feasible. (Matching funds may be available through Neighborhood Revitalization)	5,6,9	Flood	Both	Davenport	\$2,100,000	HMGP	12-18 Months	Deferred	Financial Constraints
Eagle Lake	Stormwater Improvement	New stormwater system (including pond)	8,9	Flood	Both	Eagle Lake Public Works	\$432,800	HMGP	12-18 Months	Complete	
Eagle Lake	Stormwater Improvement	Existing flooding at Eagle Ave. and 6th St. caused by undersized and cracked or clogged pipes.	8,9	Flood	Both	Eagle Lake Public Works	\$152,600	HMGP	12-18 Months	Complete	
Eagle Lake	Stormwater Improvement	Existing flooding at East Lake Avenue near intersection of S. 7th St. caused by broken pipe	8,9	Flood	Both	Eagle Lake Public Works	\$31,100	HMGP	12-18 Months	Complete	
Eagle Lake	Stormwater Improvement	Undersized Pipes	8,9	Flood	Both	Eagle Lake Public Works	\$38,900	HMGP	12-18 Months	Complete	
Eagle Lake	Stormwater Improvement	Existing flooding on Findley Ave. between N. 8th St and N. 9th St caused by undersized pipe	8,9	Flood	Both	Eagle Lake Public Works	\$146,100	HMGP	12-18 Months	Complete	

Polk County LMP Plan Update on Deferred, Completed, or Deleted Mitigation Project Initiatives

Jurisdiction Benefitted	Project Type	Description	Mitigation Goal(s) Addressed	Hazard Mitigated*	Address New or Existing	Responsible Agency	Estimated Cost	Possible Funding Source(s)	Time to Complete	Deferred, Completed, or Deleted	If Deleted or Deferred, Why?
Frostproof	Building Retrofit	Retrofit of critical facilities/window protection to City Hall (Frostproof)	1,2,5,10	Storms	Existing	Frostproof Public Works	\$150,000	HMGP, EMPA	12-18 Months	Deferred	Financial Constraints
Frostproof	Building Retrofit	Retrofit/harden Fire Dept/EMS station (Frostproof)	1,2,5,10	Storms	Existing	Frostproof Public Works	\$150,000	HMGP, EMPA	12-18 Months	Deferred	Financial Constraints
Frostproof	Drainage	Magnolia Ave. drainage, increase pipe diameter for proper stormwater run off (Frostproof)	8,9	Flood	Both	Frostproof Public Works	\$100,000	FMA, HMGP, Capitalization Grants for Clean Water State Revolving Funds, Nonpoint Source Implementation Grants, Watershed Protection and Flood Prevention Program	12-18 Months	Deferred	Financial Constraints
Frostproof	Drainage	Area experienced flooding in yards and roads. Project will re-establish drainage ditches Keen Park Road	5,6,9	Flood	Both	Frostproof	\$50,000	HMGP	12-18 Months	Deferred	Financial Constraints
Frostproof	Land Acquisition	Purchase of home and property damaged due to flooding (Johnston)	5,6,9	Flood	Existing	Frostproof	\$53,510	HMGP, FMA	12-18 Months	Deferred	Financial Constraints
Frostproof	Land Acquisition	Purchase of home and property damaged due to flooding (Bass)	5,6,9	Flood	Existing	Frostproof	\$29,840	HMGP, FMA	12-18 Months	Deferred	Financial Constraints
Haines City	Building Retrofit	Due to low elevation, lift station floods and pump shorts out. Recommend raising lift station and replace current pump with submersible. 18 Sun Air Blvd. W	3,9	Flood	Existing	Haines City	\$250,000	HMGP	12-18 Months	Deferred	Financial Constraints
Haines City	Drainage	During recent storms, area flooded and was pumped. Phase I - feasibility study; Phase II - construction, if feasible.	5,6,9	Flood	Both	Haines City	\$200,000	HMGP	12-18 Months	Deferred	Financial Constraints
Lake Wales	Building Retrofit	Lake Wales plans to retrofit city admin building, LWPD HQ, LWFD/EOC, Austin Center upgrade roof and add shutters	1,2	Storms	Existing	Lake Wales	\$750,000	HMGP	12-18 Months	Deferred	Financial Constraints
Lakeland	Building Retrofits	Retrofit Medulla community center building	1,2,10	Storms	Existing	Polk County	\$35,000	HMGP	12-18 Months	Completed	Wind Retrofit Completed (formerly listed under Bartow - incorrect jurisdiction)
Lakeland	Stormwater Improvement	Seven flood prone areas have been identified in this neighborhood and the master plan is complete. Funding would aid in design, property acquisition and construction of project. North Lakeland/Robson St	5,6,8,9	Flood	Both	Lakeland	\$1,376,559	HMGP, FMA	12-18 Months	Deferred	Financial Constraints
Lakeland	Building Retrofit	Install window film on the windows of six selected mission essential buildings in the city to protect them from damage during storms.	1,2,10	Storms	Existing	Lakeland	\$138,200	HMGP	12-18 Months	Deferred	Financial Constraints

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Lakeland	Stormwater Improvement	Inspection and repair sanitary sewer system to prevent back flow of wastewater in the surface flooding after major rain events	1,8,9	Flood	Both	Lakeland	\$476,000 -	HMGP, FMA	12-18 Months	Deferred	Financial Constraints
Lakeland	Drainage	Residences and roads flood during excessive rain. Phase I - feasibility study to improve drainage systems; Phase II construction, if feasible	5,6,9	Flood	Both	Lakeland	\$540,000	HMGP	12-18 Months	Deferred	Financial Constraints
Lakeland	Drainage	Residences and roads flood during excessive rain. Project consists of providing positive outfall for drainage.	5,6,9	Flood	Both	Lakeland	\$1,000,000	HMGP	12-18 Months	Deferred	Financial Constraints
Lakeland	Drainage	Area experience severe flooding for many years, exacerbated by continued growth in area. Feasibility study completed; Project will install positive outfall system to alleviate flooding/create more storage in lake	5,6,9	Flood	Both	Lakeland	\$1,700,000	HMGP	12-18 Months	Deferred	Financial Constraints
Lakeland	Drainage	Growth in area and deterioration of system make it unable to handle runoff. Phase I - develop detailed master drainage plan; Phase II construction, if feasible	5,6,9	Flood	Both	Lakeland	\$10,500,000	HMGP	12-18 Months	Deferred	Financial Constraints
Lakeland	Drainage	Regrading existing drainage ditches on Wells Rd., installing new drainage ditches and installing/replacing driveway culverts	5,6,9	Flood	Both	Lakeland	\$250,000	HMGP	12-18 Months	Deferred	Financial Constraints
Lakeland	Drainage	Area experienced flooding over road and around homes. Project will provide outfall for drainage.	5,6,9	Flood	Both	Lakeland	\$250,000	HMGP	12-18 Months	Deferred	Financial Constraints
Lakeland	Drainage	Area experienced flooding over road and around homes. Project will provide positive outfall	5,6,9	Flood	Both	Lakeland	\$200,000	HMGP	12-18 Months	Deferred	Financial Constraints
Lakeland	Drainage	Area has experienced road flooding and was pumped. Phase I - feasibility study to determine if positive outfall possible; Phase II - construction, if feasible.	5,6,9	Flood	Both	Lakeland	\$1,040,000	HMGP	12-18 Months	Deferred	Financial Constraints
Lakeland	Drainage	Homes in high growth area around intersection subject to flooding. Project will implement findings of 1997 study.	5,6,9	Flood	Both	Lakeland	\$900,000	HMGP	12-18 Months	Deferred	Financial Constraints
Lakeland	Drainage	Outfall in area is inefficient. Design, permit and construct efficient outfall. Cardinal St./Robin St	5,6,9	Flood	Both	Lakeland	\$75,000	HMGP	12-18 Months	Deferred	Financial Constraints
Lakeland	Drainage	Area experienced flooding in yards and roads. Project will establish drainage system along roadway. Oakland Road North	5,6,9	Flood	Both	Lakeland	\$200,000	HMGP	12-18 Months	Deferred	Financial Constraints

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Lakeland	Drainage	Growth along County Line area and in subdivision may have altered drainage patterns. Project consists of feasibility study, design, permitting and construction of positive outfall drainage system. Forestview Estates	5,6,9	Flood	Both	Lakeland	\$200,000	HMGP	12-18 Months	Deferred	Financial Constraints
Lakeland	Infrastructure	Purchase and install two auxiliary fuel storage tanks to ensure adequate supply of fuel to city vehicles.	1,2,3	All	Existing	Lakeland	\$75,000	HMGP	12-18 Months	Deferred	Financial Constraints
Lakeland	Infrastructure	Generators are required at several key intersections to ensure safe traffic control.	1,2	All	Existing	Lakeland	\$10,000	HMGP	12-18 Months	Deferred	Financial Constraints
Lakeland	Drainage	Flooding impacted home. Residents do not want to sell, but want to have flood issue resolved (Sanders)	5,6,9	Flood	Both	Lakeland	\$250,000	HMGP	12-18 Months	Deferred	Financial Constraints
Mulberry	Critical Facilities	Erect new fire station on newly acquired property to hurricane wind code (Mulberry)	1,2,5,10	Storms, Wildfire	New	Mulberry Public Works	\$1,500,000	Revenue bond, disaster mitigation competitive grant	12-14 months	Deleted	County provides City's fire protection.
Mulberry	Land Acquisition	Land acquisition for fire department expansion (Mulberry)	1,2,5,10	Wildfire	New	Mulberry Public Works	\$100,000	Revenue bond, disaster mitigation competitive grant	3 months	Deleted	County provides City's fire protection.
Mulberry	Critical Facilities	Create new EOC facility. Update & expand existing facility, new roof, generator, update communication equipment (Mulberry)	1,2,5,10	All	Both	Mulberry Public Works	\$800,000	Revenue bond, disaster mitigation competitive grant	6-8 months	Deferred	Financial Constraints
Mulberry	Building Retrofit	Retrofit City Hall with storm shutters, replace roof, new generator (Mulberry)	1,2,5,10	All	Existing	Mulberry Public Works	\$300,000	Revenue bond, disaster mitigation competitive grant	3-6 months	Deferred	Financial Constraints
Mulberry	Drainage	Alleviate flooding of streets and homes along NW 10th Dr. (Mulberry)	1,9	Flood	Both	Mulberry Public Works	\$600,000	SWFWMD, Stormwater Utility Fund	6-8 months	Deferred	Financial Constraints
Mulberry	Bank Stabilization	Stabilize the bank with gabions along SW 5th Ave. (Mulberry)	6,9	Flood	Both	Mulberry Public Works	\$200,000	SWFWMD, Stormwater Utility Fund	6-8 months	Deferred	Financial Constraints
Mulberry	Drainage	Street floods in heavy rains; some homes did flood, others were protected by sandbag barriers during hurricanes. Updated drain system will alleviate these flooding issues. NW 10th Dr.	5,6,9	Flood	Both	Mulberry	\$1,000,000	HMGP, FMA	12-18 Months	Deferred	Financial Constraints
Mulberry	Drainage	Area experienced flooding in yards due to inadequate drainage system. Project is a feasibility study to determine how to handle stormwater runoff.	5,6,9	Flood	Both	Mulberry	\$50,000	HMGP	12-18 Months	Deferred	Financial Constraints

Polk County LMP Plan Update on Deffered, Completed, or Deleted Mitigtion Project Initiatives

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Polk City	Drainage	Flooding impacted home. Residents do not want to sell, but want to have flood issue resolved (Peterson)	5,6,9	Flood	Both	Polk City	\$250,000	HMGP	12-18 Months	Deferred	Financial Constraints
Unincorp. County	Land Acquisition	Purchase of home and property located in repetitively flooded area of Peace River Estates (Carr)	5,6,9	Flood	Existing	Polk County	\$48,350	HMGP, FMA	12-18 Months	Deferred	Financial Constraints
Unincorp. County	Land Acquisition	Purchase of home and property located in repetitively flooded area of Peace River Estates (McKenzie)	5,6,9	Flood	Existing	Polk County	\$48,010	HMGP, FMA	12-18 Months	Deferred	Financial Constraints
Unincorp. County	Building Retrofit	Modify existing Master Lift Stations against flood waters from Peace River.	3,9	Flood	Existing	Polk County	\$34,700	HMGP	12-18 Months	Deferred	Financial Constraints
Unincorp. County	Land Acquisition	Purchase of home and property located in repetitively flooded area of Peace River Estates (Monroe)	5,6,9	Flood	Existing	Polk County	\$70,640	HMGP, FMA	12-18 Months	Deferred	Financial Constraints
Unincorp. County	Drainage Study	Road floods during rainy season - about 1/4 mile north of CR 640 on Bonnie Mine Rd	8,9	Flood	Existing	County Public Works	\$20,000	HMGP, FMA	12-18 Months	Deleted	Not Cost Effective
Unincorp. County	Drainage Study	Road floods during rainy season - about 1/2 mile south of CR 640 on Pebbledale Rd	8,9	Flood	Existing	County Public Works	\$20,000	HMGP, FMA	12-18 Months	Complete	
Unincorp. County	Drainage Study	Ground water bubbles up out of ground and flows over road and down to Scott Lake on Live Oak Rd (near Lake Seward Drive)	8,9	Flood	Existing	County Public Works	\$20,000	HMGP, FMA	12-18 Months	Deleted	Not Cost Effective
Unincorp. County	Drainage Study	Water drains off of Fitzgerald and down into this sub; sub has no existing drainage system at Orange Valley Dr	8,9	Flood	Existing	County Public Works	\$20,000	HMGP, FMA	12-18 Months	Deleted	Not Cost Effective
Unincorp. County	Drainage Study	Cul-de-sac floods; SWFWMD is involved with backside of property at 3604 Grove Terrace Dr	8,9	Flood	Existing	County Public Works	\$20,000	HMGP, FMA	12-18 Months	Complete	
Unincorp. County	Drainage Study	Standing water in road at Squire Grove subdivision - grass clippings are clogging the grated inlet at Eagle Lake Loop Rd	8,9	Flood	Existing	County Public Works	\$20,000	HMGP, FMA	12-18 Months	Complete	
Unincorp. County	Drainage Study	House lower than road; water flowing down driveway into garage; House No. 500 Lake Florence Dr S	8,9	Flood	Existing	County Public Works	\$20,000	HMGP, FMA	12-18 Months	Complete	
Unincorp. County	Drainage Study	House No. 1324 Long St is having high water conditions during storms	8,9	Flood	Existing	County Public Works	\$20,000	HMGP, FMA	12-18 Months	Complete	
Unincorp. County	Drainage Study	Road Floods at Old Combee Road near water plant	8,9	Flood	Existing	County Public Works	\$20,000	HMGP, FMA	12-18 Months	Deleted	Not Cost Effective

Polk County LMP Plan Update on Deferred, Completed, or Deleted Mitigation Project Initiatives

Jurisdiction Benefitted	Project Type	Description	Mitigation Goal(s) Addressed	Hazard Mitigated*	Address New or Existing	Responsible Agency	Estimated Cost	Possible Funding Source(s)	Time to Complete	Deferred, Completed, or Deleted	If Deleted or Deferred, Why?
Unincorp. County	Drainage Study	Water flowing between 2 houses; 1 house flooded at Enterprise St (near Kathleen HS)	8,9	Flood	Existing	County Public Works	\$20,000	HMGP, FMA	12-18 Months	Deleted	Not Cost Effective
Unincorp. County	Drainage Study	Awaiting survey, property owner to provide drainage easement at Goldenbough	8,9	Flood	Existing	County Public Works	\$20,000	HMGP, FMA	12-18 Months	Deleted	Not Cost Effective
Unincorp. County	Drainage Study	Hillcrest	8,9	Flood	Existing	County Public Works	\$20,000	HMGP, FMA	12-18 Months	Deleted	Not Cost Effective
Unincorp. County	Stormwater Improvement	Replace cross drain at Forestwood Drive W (near Ewell)	8,9	Flood	Existing	County Public Works	\$80,000	HMGP	Awaiting estimate	Complete	
Unincorp. County	Stormwater Improvement	Replace endwall, line pipes on Carter Road at Mikasuki	8,9	Flood	Existing	County Public Works	\$80,000	HMGP	Awaiting estimate	Complete	
Unincorp. County	Stormwater Improvement	Replace cross drain at Ewell Rd (west of Hatcher)	8,9	Flood	Existing	County Public Works	\$20,000	HMGP	Awaiting estimate	Complete	
Unincorp. County	Stormwater Improvement	Slipline outfall pipe at Sweetwater Drive E (near Ewell)	8,9	Flood	Existing	County Public Works	\$20,000	HMGP	12-18 Months	Complete	
Unincorp. County	Stormwater Improvement	Improve ditch to minimize road flooding at Eloise Loop Road, 1/4 mile east of Snively	8,9	Flood	Existing	County Public Works	\$10,000	HMGP	12-18 Months	Complete	
Unincorp. County	Stormwater Improvement	Replace outfall pipes at Weston Road	8,9	Flood	Existing	County Public Works	\$100,000	HMGP	12-18 Months	Complete	
Unincorp. County	Stormwater Improvement	Install inlets and piping at intersection of Hardin and Combee Road	8,9	Flood	Existing	County Public Works	\$20,000	HMGP	Awaiting estimate	Complete	
Unincorp. County	Stormwater Improvement	Replace outfall pipe at Lois Blvd	8,9	Flood	Existing	County Public Works	\$20,000	HMGP	Awaiting estimate	Complete	
Unincorp. County	Stormwater Improvement	Install trench drain at Old Berkley Road (near Kempski Court)	8,9	Flood	Existing	County Public Works	\$10,000	HMGP	12-18 Months	Complete	
Unincorp. County	Stormwater Improvement	Line pipes, seal inlets at Forest Drive	8,9	Flood	Existing	County Public Works	\$33,000	HMGP	Awaiting estimates	Complete	
Unincorp. County	Stormwater Improvement	Replace 60" cross drain at Timberlane Road (near Tindel Camp Road)	8,9	Flood	Existing	County Public Works	\$85,000	HMGP	12-18 Months	Complete	
Unincorp. County	Stormwater Improvement	Endwall repairs at Cypress Parkway	8,9	Flood	Existing	County Public Works	\$60,000	HMGP	12-18 Months	Deleted	Not Cost Effective
Unincorp. County	Stormwater Improvement	Endwall repairs at Adair Road	8,9	Flood	Existing	County Public Works	\$30,000	HMGP	12-18 Months	Deleted	Not Cost Effective
Unincorp. County	Stormwater Improvement	Install french drain at Lewis Road	8,9	Flood	Existing	County Public Works	\$20,000	HMGP	Awaiting estimate	Complete	
Unincorp. County	Stormwater Improvement	Replace outfall pipe at Ridgeview Drive	8,9	Flood	Existing	County Public Works	\$30,000	HMGP	12-18 Months	Complete	
Unincorp. County	Building Retrofit	Install 28 wind loaded overhead doors at compound.	1,2	Wind	Existing	County Facilities Management	\$252,000	HMGP	12-18 Months	Deferred	Financial Constraints
Unincorp. County	Floodplain Management	Establish NAVD 88 Benchmark network countywide as integral part of Map Modernization initiative	1,2,6,9	Flood	Both	SWFWMD, Polk County	\$200,000	SWFWMD, County Funds	12-18 Months	Deferred	Financial Constraints
Unincorp. County	Drainage	Yearly flooding a continual problem. Phase I - feasibility study, Phase II - construction, if feasible	5,6,9	Flood	Both	Polk County	\$3,900,000	HMGP	12-18 Months	Deferred	Financial Constraints

Polk County LMP Plan Update on Deferred, Completed, or Deleted Mitigation Project Initiatives

Jurisdiction Benefitted	Project Type	Description	Mitigation Goal(s) Addressed	Hazard Mitigated*	Address New or Existing	Responsible Agency	Estimated Cost	Possible Funding Source(s)	Time to Complete	Deferred, Completed, or Deleted	If Deleted or Deferred, Why?
Unincorp. County	Drainage-	During recent storms, area flooded and was pumped. Project will install pipe system to SW Canal at Cherrywood Circle	5,6,9	Flood	Both	Polk County	\$75,000	HMGP	12-18 Months	Deferred	Financial Constraints
Unincorp. County	Drainage	Stormwater system damaged during hurricanes and needs rehabilitation. Phase I - feasibility study; phase II - construction, if feasible.	5,6,9	Flood	Both	Polk County	\$90,000	HMGP	12-18 Months	Deferred	Financial Constraints
Unincorp. County	Drainage	Area experienced flooding in yards and roads. Project will establish point discharge from retention pond that overflows.	5,6,9	Flood	Both	Polk County	\$120,000	HMGP	12-18 Months	Deferred	Financial Constraints
Unincorp. County	Drainage	Area experienced flooding in yards and roads due to inadequate drainage system. Project is a feasibility study to determine how to handle stormwater runoff.	5,6,9	Flood	Both	Polk County	\$250,000	HMGP	12-18 Months	Deferred	Financial Constraints
Unincorp. County	Infrastructure	Install generator to power a/c unit of Special Care Shelter at the PCHD Specialty Care Unit	1,2,10	All	Existing	Polk County	\$129,000	HMGP	12-18 Months	Complete	
Unincorp. County	Building Retrofit	Install protective window film on all first floor windows	1,2,10	Storms	Existing	Polk County	\$22,000	HMGP	12-18 Months	Deferred	Financial Constraints
Unincorp. County	Auxiliary Power	Phase I. Install a Generator Set. Pumping leachate out of the landfill for disposal at a wastewater treatment plant. Extended periods without electricity increases the risk of leachate leaking into the groundwater and causing contamination. (Disposal Facility Leachate Pumping Station)	1,8,10	Flood	Existing	Waste Resource Management	\$29,000	HMGP	12-18 Months	Deferred	Financial Constraints
Unincorp. County	Auxiliary Power	Phase II. Install a Generator Set. Pumping leachate out of the landfill for disposal at a wastewater treatment plant. Extended periods without electricity increases the risk of leachate leaking into the groundwater and causing contamination. (Disposal Facility Leachate Pumping Station)	1,8,10	Flood	Existing	Waste Resource Management	\$29,000	HMGP	12-18 Months	Deferred	Financial Constraints
Unincorp. County	Auxiliary Power	Phase III. Install a Generator Set. Pumping leachate out of the landfill for disposal at a wastewater treatment plant. Extended periods without electricity increases the risk of leachate leaking into the groundwater and causing contamination. (Disposal Facility Leachate Pumping Station South)	1,8,10	Flood	Existing	Waste Resource Management	\$35,000	HMGP	12-18 Months	Deferred	Financial Constraints
Unincorp. County	Auxiliary Power	Phase III. Install a Generator Set. Pumping leachate out of the landfill for disposal at a wastewater treatment plant. Extended periods without electricity increases the risk of leachate leaking into the groundwater and causing contamination. (Disposal Facility Leachate Pumping Station North)	1,8,10	Flood	Existing	Waste Resource Management	\$35,000	HMGP	12-18 Months	Deferred	Financial Constraints
Unincorp. County	Building Retrofit	Install protective window film on windows of the WRMD office for protection from storm damage. (Winter Haven)	1,10	Storms	Existing	Waste Resource Management	\$25,000	HMGP	12-18 Months	Deferred	Financial Constraints
Unincorp. County	Building Retrofit	Replace 4 portable storage sheds that store tools, equipment and supplies with a wind resistant permanent metal building at the North Central Landfill.	1,10	Wind, Storms	Existing	Waste Resource Management	\$650,000	HMGP	12-18 Months	Deferred	Financial Constraints

Polk County LMP Plan Update on Deferred, Completed, or Deleted Mitigation Project Initiatives

Jurisdiction Benefitted	Project Type	Description	Mitigation Goal(s) Addressed	Hazard Mitigated*	Address New or Existing	Responsible Agency	Estimated Cost	Possible Funding Source(s)	Time to Complete	Deferred, Completed, or Deleted	If Deleted or Deferred, Why?
Winter Haven	Land Acquisition, Drainage	Ten single family homes experience recurring flooding in most storm events. Proposal seeks to purchase one home and construct drainage and conveyance system. Ave N SE& Fifth St. SE	5,6,9	Flood	Both	Winter Haven	\$390,000	HMGP, FMA	12-18 Months	Deferred	Financial Constraints
Winter Haven	Critical Facilities	Create new city EOC/ROC in City Hall Annex during current renovations through some new design and some hardening of existing facility. 451 and 551 Third St NW	1,2,10	All	Existing	Winter Haven	\$275,000	HMGP	12-18 Months	Deferred	Financial Constraints
Winter Haven	Drainage	Rework drainage system and construct additional components that will aid in collecting storm water runoff at Fox Briar Subdivision . (108 residences)	5,6,9	Flood	Both	Winter Haven	\$340,000	HMGP	12-18 Months	Deferred	Financial Constraints
Winter Haven	Drainage	Rework drainage system and construct additional components that will aid in collecting storm water runoff in Spanish Haven Subdivision. (94 residences)	5,6,9	Flood	Both	Winter Haven	\$125,000	HMGP	12-18 Months	Deferred	Financial Constraints
Winter Haven	Drainage	Area's pipe system has deteriorated, needs replacement	5,6,9	Flood	Both	Winter Haven	\$1,100,000	HMGP	12-18 Months	Deferred	Financial Constraints
Winter Haven	Drainage	During recent storms, area flooded and was pumped. Phase I - feasibility study to review flooding problem; Phase II - construction, if feasible	5,6,9	Flood	Both	Winter Haven	\$540,000	HMGP	12-18 Months	Deferred	Financial Constraints
Winter Haven	Drainage -	Flooding in MHP caused water damage some outdoor utilities and water covered interior roads and Cypress Gardens Rd. Solution to pump water to nearby Fox Lake.	5,6,9	Flood	Both	Winter Haven	\$250,000	HMGP	12-18 Months	Deferred	Financial Constraints
Winter Haven	Drainage	Flooding impacted home. Residents do not want to sell, but want to have flood issue resolved (Platt)	5,6,9	Flood	Both	Winter Haven	\$250,000	HMGP	12-18 Months	Deferred	Financial Constraints
Winter Haven	Drainage	Flooding impacted home. Residents do not want to sell, but want to have flood issue resolved(Patterson)	5,6,9	Flood	Both	Winter Haven	\$250,000	HMGP	12-18 Months	Deferred	Financial Constraints

Table 6-3 Polk County Multi-Jurisdictional LMS Mitigation Action Plan - Mitigation Initiatives

Jurisdiction Benefitted	Jurisdiction (Location of Project)	Project Name	Project Type	Description	Mitigation Goal(s) Addressed	Hazard Mitigated*	Address New or Existing	Responsible Agency	Estimated Cost	Possible Funding Source(s)	Time to Complete
All	All	Public Education/Outreach	Education, Public Awareness	Ongoing mitigation initiative designed to mitigate the impact of various disasters by educating residential and commercial property owners of the hazards they face, vulnerability from hazards, and actions they can take to reduce the impacts of these hazards before they occur. Activities include participation in the National Weather Service Weather Ready Nation/Storm Ready program, partnerships with the Lakeland Flying Tigers minor league baseball team to host the annual Ready Night, use of social media, and other outreach mechanisms.	1,2,5	All	Both	County Public Safety Departments (Fire, EMS, E-911, etc)	\$25,000	Public Safety Admin	Annual and Bi-annual
All	All	Increase capacity of Groundwater Storage Reservoir	Critical Facilities	Increase current ground storage water reservoir from 150K gallons to 500K gallon	5,6,9	Flood	Existing	Utilities	\$300,000	HMGP	12-18 Months
Auburndale	Auburndale	Alberta Street Drainage Improvement	Drainage	Relieves flooding and drainage problem at major intersection on Alberta St	5,6,9	Flood	Both	Auburndale	\$500,000	HMGP, FMA	12-18 Months
Auburndale	Auburndale	Ariana Boulevard Stormwater Installation	Drainage	Properties and Structures on Ariana Blvd. flooded from water flowing from Whistler Est. to Lake Ariana. Current drainage system cannot handle runoff. Project consists of design, permitting and construction of stormwater system	5,6,9	Flood	Both	Auburndale	\$200,000	HMGP	12-18 Months
Auburndale	Auburndale	Moss Road/Jones Road Drainage Ditch Improvements	Drainage	Area experienced flooding in yards and roads. Project will re-establish drainage ditches. Moss Rd./Jones Rd.	5,6,9	Flood	Both	Auburndale	\$50,000	HMGP	12-18 Months
Bartow	Bartow	City-wide Stormwater Improvements	Stormwater Improvement	Provide needed improvements to substandard stormwater infrastructure	8,9	Flood, Storms	Both	Bartow	\$13,000,000	HMGP	12-18 Months
Bartow	Bartow	City-wide Sewer Improvements	Stormwater Improvement, Building Retrofit	Provide improvements to 14,700 linear feet of gravity sewer, 25 manholes, and the airbase master lift station	2,8,9	Flood, Storms	Existing	Bartow	\$1,500,000	HMGP	12-18 Months
Bartow	Bartow	City-Building Facility Upgrade	Building Retrofit, Critical Facilities	Upgrade facility to serve as back up HQ for PCHD, upgrade roof, modify building to support 2 coolers for critical pharmaceuticals, modify electric system and install generator	1,2,10	All	Existing	Health Department	\$250,000	HMGP	12-18 Months
Bartow	Bartow	Polk Street and Carver Recreation Center Retrofits	Building Retrofits	Retrofit the Polk St. Recreation Center and Carver Recreation Center to be used by nearby residents as hurricane shelters	1,2,10	Storms	Existing	Bartow	\$35,000	HMGP	12-18 Months
Davenport	Davenport	Phase I and Phase II Drainage Studies	Drainage	Area experienced flooding in yards due to inadequate drainage system. Phase I - feasibility study to determine how to handle stormwater runoff; phase II - construction, if feasible. (Matching funds may be available through Neighborhood Revitalization)	5,6,9	Flood	Both	Davenport	\$2,100,000	HMGP	12-18 Months

Table 6-3 Polk County Multi-Jurisdictional LMS Mitigation Action Plan - Mitigation Initiatives

Jurisdiction Benefitted	Jurisdiction (Location of Project)	Project Name	Project Type	Description	Mitigation Goal(s) Addressed	Hazard Mitigated*	Address New or Existing	Responsible Agency	Estimated Cost	Possible Funding Source(s)	Time to Complete
Davenport	Davenport	Critical Facility Wind Retrofit	Property Protection	Wind Retrofit to City Admin Building that houses Fire, Police and Public Works operations.	1,2	Wind	Existing	Davenport	\$160,000	HMGP	9-12 Months
Frostproof	Frostproof	City Hall Building Retrofit	Building Retrofit	Retrofit of critical facilities/window protection to City Hall (Frostproof)	1,2,5,10	Storms	Existing	Frostproof Public Works	\$150,000	HMGP, EMPA	12-18 Months
Frostproof	Frostproof	Fire/EMS Building Retrofit	Building Retrofit	Retrofit/harden Fire Dept/EMS station (Frostproof)	1,2,5,10	Storms	Existing	Frostproof Public Works	\$150,000	HMGP, EMPA	12-18 Months
Frostproof	Frostproof	Magnolia Ave Stormwater Project	Drainage	Magnolia Ave. drainage, increase pipe diameter for proper stormwater run off (Frostproof)	8,9	Flood	Both	Frostproof Public Works	\$100,000	FMA, HMGP, Capitalization Grants for Clean Water State Revolving Funds, Nonpoint Source Implementation Grants, Watershed Protection and Flood Prevention Program	12-18 Months
Frostproof	Frostproof	Keen Park Road Drainage Project	Drainage	Area experienced flooding in yards and roads. Project will re-establish drainage ditches Keen Park Road	5,6,9	Flood	Both	Frostproof	\$50,000	HMGP	12-18 Months
Frostproof	Frostproof	Johnston Property Purchase	Land Acquisition	Purchase of home and property damaged due to flooding (Johnston)	5,6,9	Flood	Existing	Frostproof	\$53,510	HMGP, FMA	12-18 Months
Frostproof	Frostproof	Bass Property Purchase	Land Acquisition	Purchase of home and property damaged due to flooding (Bass)	5,6,9	Flood	Existing	Frostproof	\$29,840	HMGP, FMA	12-18 Months
Haines City	Haines City	Lift Station Improvements (18 Sun Air Blvd)	Building Retrofit	Due to low elevation, lift station floods and pump shorts out. Recommend raising lift station and replace current pump with submersible. 18 Sun Air Blvd. W	3,9	Flood	Existing	Haines City	\$250,000	HMGP	12-18 Months
Haines City	Haines City	Phase I and Phase II Drainage Studies	Drainage	During recent storms, area flooded and was pumped. Phase I - feasibility study; Phase II - construction, if feasible.	5,6,9	Flood	Both	Haines City	\$200,000	HMGP	12-18 Months
Lake Wales	Lake Wales	City Administration Building Retrofit	Building Retrofit	Lake Wales plans to retrofit city admin building, LWPD HQ, LWFD/EOC, Austin Center upgrade roof and add shutters	1,2	Storms	Existing	Lake Wales	\$750,000	HMGP	12-18 Months
Lakeland	Lakeland	North Lakeland/Robson St Stormwater Improvements	Stormwater Improvement	Seven flood prone areas have been identified in this neighborhood and the master plan is complete. Funding would aid in design, property acquisition and construction of project. North Lakeland/Robson St	5,6,8,9	Flood	Both	Lakeland	\$1,376,559	HMGP, FMA	12-18 Months

Table 6-3 Polk County Multi-Jurisdictional LMS Mitigation Action Plan - Mitigation Initiatives

Jurisdiction Benefitted	Jurisdiction (Location of Project)	Project Name	Project Type	Description	Mitigation Goal(s) Addressed	Hazard Mitigated*	Address New or Existing	Responsible Agency	Estimated Cost	Possible Funding Source(s)	Time to Complete
Lakeland	Lakeland	Window film on City Building Windows	Building Retrofit	Install window film on the windows of six selected mission essential buildings in the city to protect them from damage during storms.	1,2,10	Storms	Existing	Lakeland	\$138,200	HMGP	12-18 Months
Lakeland	Lakeland	Sanitary Sewer System Inspection and Repair	Stormwater Improvement	Inspection and repair sanitary sewer system to prevent back flow of wastewater in the surface flooding after major rain events	1,8,9	Flood	Both	Lakeland	\$476,000 -	HMGP, FMA	12-18 Months
Lakeland	Lakeland	Phase I and Phase II Drainage Studies	Drainage	Residences and roads flood during excessive rain. Phase I - feasibility study to improve drainage systems; Phase II construction, if feasible	5,6,9	Flood	Both	Lakeland	\$540,000	HMGP	12-18 Months
Lakeland	Lakeland	Drainage Improvement in Residential Areas	Drainage	Residences and roads flood during excessive rain. Project consists of providing positive outfall for drainage.	5,6,9	Flood	Both	Lakeland	\$1,000,000	HMGP	12-18 Months
Lakeland	Lakeland	Drainage Improvements for City	Drainage	Area experience severe flooding for many years, exacerbated by continued growth in area. Feasibility study completed; Project will install positive outfall system to alleviate flooding/create more storage in lake	5,6,9	Flood	Both	Lakeland	\$1,700,000	HMGP	12-18 Months
Lakeland	Lakeland	Phase I and Phase II Drainage Studies	Drainage	Growth in area and deterioration of system make it unable to handle runoff. Phase I - develop detailed master drainage plan; Phase II construction, if feasible	5,6,9	Flood	Both	Lakeland	\$10,500,000	HMGP	12-18 Months
Lakeland	Lakeland	Wells Rd Drainage Improvements	Drainage	Regrading existing drainage ditches on Wells Rd., installing new drainage ditches and installing/replacing driveway culverts	5,6,9	Flood	Both	Lakeland	\$250,000	HMGP	12-18 Months
Lakeland	Lakeland	Drainage Outfall Project	Drainage	Area experienced flooding over road and around homes. Project will provide outfall for drainage.	5,6,9	Flood	Both	Lakeland	\$250,000	HMGP	12-18 Months
Lakeland	Lakeland	Residential Area Drainage Improvement	Drainage	Area experienced flooding over road and around homes. Project will provide positive outfall	5,6,9	Flood	Both	Lakeland	\$200,000	HMGP	12-18 Months
Lakeland	Lakeland	Phase I and Phase II Drainage Studies	Drainage	Area has experienced road flooding and was pumped. Phase I - feasibility study to determine if positive outfall possible; Phase II - construction, if feasible.	5,6,9	Flood	Both	Lakeland	\$1,040,000	HMGP	12-18 Months
Lakeland	Lakeland	Intersection Drainage Improvement	Drainage	Homes in high growth area around intersection subject to flooding. Project will implement findings of 1997 study.	5,6,9	Flood	Both	Lakeland	\$900,000	HMGP	12-18 Months

Table 6-3 Polk County Multi-Jurisdictional LMS Mitigation Action Plan - Mitigation Initiatives

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Lakeland	Lakeland	Cardinal St/Robin St Drainage Improvements	Drainage	Outfall in area is inefficient. Design, permit and construct efficient outfall. Cardinal St./Robin St	5,6,9	Flood	Both	Lakeland	\$75,000	HMGP	12-18 Months
Lakeland	Lakeland	Oakland Rd N Drainage Improvements	Drainage	Area experienced flooding in yards and roads. Project will establish drainage system along roadway. Oakland Road North	5,6,9	Flood	Both	Lakeland	\$200,000	HMGP	12-18 Months
Lakeland	Lakeland	Forestview Estates Drainage Project	Drainage	Growth along County Line area and in subdivision may have altered drainage patterns. Project consists of feasibility study, design, permitting and construction of positive outfall drainage system. Forestview Estates	5,6,9	Flood	Both	Lakeland	\$200,000	HMGP	12-18 Months
Lakeland	Lakeland	Fuel Storage Tank Acquisition	Infrastructure	Purchase and install two auxiliary fuel storage tanks to ensure adequate supply of fuel to city vehicles.	1,2,3	All	Existing	Lakeland	\$75,000	HMGP	12-18 Months
Lakeland	Lakeland	Generator Acquisition	Infrastructure	Generators are required at several key intersections to ensure safe traffic control.	1,2	All	Existing	Lakeland	\$10,000	HMGP	12-18 Months
Lakeland	Lakeland	Residential Drainage Improvement	Drainage	Flooding impacted home. Residents do not want to sell, but want to have flood issue resolved (Sanders)	5,6,9	Flood	Both	Lakeland	\$250,000	HMGP	12-18 Months
Mulberry	Mulberry	EOC Facility	Critical Facilities	Create new EOC facility. Update & expand existing facility, new roof, generator, update communication equipment (Mulberry)	1,2,5,10	All	Both	Mulberry Public Works	\$800,000	Revenue bond, disaster mitigation competitive grant	6-8 months
Mulberry	Mulberry	City Hall Upgrades	Building Retrofit	Retrofit City Hall with storm shutters, replace roof, new generator (Mulberry)	1,2,5,10	All	Existing	Mulberry Public Works	\$300,000	Revenue bond, disaster mitigation competitive grant	3-6 months
Mulberry	Mulberry	NW 10th Drive Drainage Project	Drainage	Alleviate flooding of streets and homes along NW 10th Dr. (Mulberry)	1,9	Flood	Both	Mulberry Public Works	\$600,000	SWFWMD, Stormwater Utility Fund	6-8 months
Mulberry	Mulberry	SW 5th Avenue Stabilization Project	Bank Stabilization	Stabilize the bank with gabions along SW 5th Ave. (Mulberry)	6,9	Flood	Both	Mulberry Public Works	\$200,000	SWFWMD, Stormwater Utility Fund	6-8 months
Mulberry	Mulberry	Nw 10th Drive Drain System	Drainage	Street floods in heavy rains; some homes did flood, others were protected by sandbag barriers during hurricanes. Updated drain system will alleviate these flooding issues. NW 10th Dr.	5,6,9	Flood	Both	Mulberry	\$1,000,000	HMGP, FMA	12-18 Months
Mulberry	Mulberry	Drainage & Stormwater Feasibility Study	Drainage	Area experienced flooding in yards due to inadequate drainage system. Project is a feasibility study to determine how to handle stormwater runoff.	5,6,9	Flood	Both	Mulberry	\$50,000	HMGP	12-18 Months
Polk City	Polk City	Residential Flood Project (Peterson)	Drainage	Flooding impacted home. Residents do not want to sell, but want to have flood issue resolved (Peterson)	5,6,9	Flood	Both	Polk City	\$250,000	HMGP	12-18 Months

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Jurisdiction Benefitted	Jurisdiction (Location of Project)	Project Name	Project Type	Description	Mitigation Goal(s) Addressed	Hazard Mitigated*	Address New or Existing	Responsible Agency	Estimated Cost	Possible Funding Source(s)	Time to Complete
Unincorp. County	Unincorp. County	Peace River Estates Acquisition (Carr)	Land Acquisition	Purchase of home and property located in repetitively flooded area of Peace River Estates (Carr)	5,6,9	Flood	Existing	Polk County	\$48,350	HMGP, FMA	12-18 Months
Unincorp. County	Unincorp. County	Peace River Estates Acquisition (McKenzie)	Land Acquisition	Purchase of home and property located in repetitively flooded area of Peace River Estates (McKenzie)	5,6,9	Flood	Existing	Polk County	\$48,010	HMGP, FMA	12-18 Months
Unincorp. County	Unincorp. County	Peace River Master Lift Station Project	Building Retrofit	Modify existing Master Lift Stations against flood waters from Peace River.	3,9	Flood	Existing	Polk County	\$34,700	HMGP	12-18 Months
Unincorp. County	Unincorp. County	Peace River Estates Acquisition (Monroe)	Land Acquisition	Purchase of home and property located in repetitively flooded area of Peace River Estates (Monroe)	5,6,9	Flood	Existing	Polk County	\$70,640	HMGP, FMA	12-18 Months
Unincorp. County	Unincorp. County	New wind loaded overhead doors at EOC	Building Retrofit	Install 28 wind loaded overhead doors at compound.	1,2	Wind	Existing	County Facilities Management	\$252,000	HMGP	12-18 Months
Unincorp. County	Unincorp. County	Establish NAVD 88 Benchmark Network	Floodplain Management	Establish NAVD 88 Benchmark network countywide as integral part of Map Modernization initiative	1,2,6,9	Flood	Both	SWFWMD, Polk County	\$200,000	SWFWMD, County Funds	12-18 Months
Unincorp. County	Unincorp. County	Phase I and Phase II Drainage Studies	Drainage	Yearly flooding a continual problem. Phase I - feasibility study, Phase II - construction, if feasible	5,6,9	Flood	Both	Polk County	\$3,900,000	HMGP	12-18 Months
Unincorp. County	Unincorp. County	SW Canal at Cherrywood Circle Pipe System Project	Drainage	During recent storms, area flooded and was pumped. Project will install pipe system to SW Canal at Cherrywood Circle	5,6,9	Flood	Both	Polk County	\$75,000	HMGP	12-18 Months
Unincorp. County	Unincorp. County	Phase I and Phase II Drainage Studies	Drainage	Stormwater system damaged during hurricanes and needs rehabilitation. Phase I - feasibility study; phase II - construction, if feasible.	5,6,9	Flood	Both	Polk County	\$90,000	HMGP	12-18 Months
Unincorp. County	Unincorp. County	Point Discharge for retention pond to reduce neighborhood flooding	Drainage	Area experienced flooding in yards and roads. Project will establish point discharge from retention pond that overflows.	5,6,9	Flood	Both	Polk County	\$120,000	HMGP	12-18 Months
Unincorp. County	Unincorp. County	Drainage Feasibility Study	Drainage	Area experienced flooding in yards and roads due to inadequate drainage system. Project is a feasibility study to determine how to handle stormwater runoff.	5,6,9	Flood	Both	Polk County	\$250,000	HMGP	12-18 Months
Unincorp. County	Unincorp. County	Window film on County Building Windows	Building Retrofit	Install protective window film on all first floor windows	1,2,10	Storms	Existing	Polk County	\$22,000	HMGP	12-18 Months

Table 6-3 Polk County Multi-Jurisdictional LMS Mitigation Action Plan - Mitigation Initiatives

Jurisdiction Benefitted	Jurisdiction (Location of Project)	Project Name	Project Type	Description	Mitigation Goal(s) Addressed	Hazard Mitigated*	Address New or Existing	Responsible Agency	Estimated Cost	Possible Funding Source(s)	Time to Complete
Unincorp. County	Unincorp. County	Install Generation Set at Landfill (Phase I)	Auxiliary Power	Phase I. Install a Generator Set. Pumping leachate out of the landfill for disposal at a wastewater treatment plant. Extended periods without electricity increases the risk of leachate leaking into the groundwater and causing contamination. (Disposal Facility Leachate Pumping Station)	1,8,10	Flood	Existing	Waste Resource Management	\$29,000	HMGP	12-18 Months
Unincorp. County	Unincorp. County	Install Generation Set at Landfill (Phase II)	Auxiliary Power	Phase II. Install a Generator Set. Pumping leachate out of the landfill for disposal at a wastewater treatment plant. Extended periods without electricity increases the risk of leachate leaking into the groundwater and causing contamination. (Disposal Facility Leachate Pumping Station)	1,8,10	Flood	Existing	Waste Resource Management	\$29,000	HMGP	12-18 Months
Unincorp. County	Unincorp. County	Install Generation Set at Landfill (Phase III)	Auxiliary Power	Phase III. Install a Generator Set. Pumping leachate out of the landfill for disposal at a wastewater treatment plant. Extended periods without electricity increases the risk of leachate leaking into the groundwater and causing contamination. (Disposal Facility Leachate Pumping Station South)	1,8,10	Flood	Existing	Waste Resource Management	\$35,000	HMGP	12-18 Months
Unincorp. County	Unincorp. County	Window film on County Building Windows	Building Retrofit	Install protective window film on windows of the WRMD office for protection from storm damage. (Winter Haven)	1,10	Storms	Existing	Waste Resource Management	\$25,000	HMGP	12-18 Months
Unincorp. County	Unincorp. County	North Central Landfil Storage Building Replacement	Building Retrofit	Replace 4 portable storage sheds that store tools, equipment and supplies with a wind resistant permanent metal building at the North Central Landfill.	1,10	Wind, Storms	Existing	Waste Resource Management	\$650,000	HMGP	12-18 Months
Winter Haven	Winter Haven	Residential Property Purchase and Stormwater System Installation (Ave N SE and Fith St SE)	Land Acquisition, Drainage	Ten single family homes experience recurring flooding in most storm events. Proposal seeks to purchase one home and construct drainage and conveyance system. Ave N SE& Fifth St. SE	5,6,9	Flood	Both	Winter Haven	\$390,000	HMGP, FMA	12-18 Months
Winter Haven	Winter Haven	New City EOC/ROC and critical facility improvements (451 and 551 Third St NW)	Critical Facilities	Create new city EOC/ROC in City Hall Annex during current renovations through some new design and some hardening of existing facility. 451 and 551 Third St NW	1,2,10	All	Existing	Winter Haven	\$275,000	HMGP	12-18 Months
Winter Haven	Winter Haven	Stormwater Improvements for Fox Briar Subdivision	Drainage	Rework drainage system and construct additional components that will aid in collecting storm water runoff at Fox Briar Subdivision . (108 residences)	5,6,9	Flood	Both	Winter Haven	\$340,000	HMGP	12-18 Months
Winter Haven	Winter Haven	Drainage Improvements for Spanish Haven Subdivision	Drainage	Rework drainage system and construct additional components that will aid in collecting storm water runoff in Spanish Haven Subdivision. (94 residences)	5,6,9	Flood	Both	Winter Haven	\$125,000	HMGP	12-18 Months

Table 6-3 Polk County Multi-Jurisdictional LMS Mitigation Action Plan - Mitigation Initiatives

Jurisdiction Benefitted	Jurisdiction (Location of Project)	Project Name	Project Type	Description	Mitigation Goal(s) Addressed	Hazard Mitigated*	Address New or Existing	Responsible Agency	Estimated Cost	Possible Funding Source(s)	Time to Complete
Winter Haven	Winter Haven	City Pipe System Replacement	Drainage	Area's pipe system has deteriorated, needs replacement	5,6,9	Flood	Both	Winter Haven	\$1,100,000	HMGP	12-18 Months
Winter Haven	Winter Haven	Phase I and Phase II Drainage Studies	Drainage	During recent storms, area flooded and was pumped. Phase I - feasibility study to review flooding problem; Phase II - construction, if feasible	5,6,9	Flood	Both	Winter Haven	\$540,000	HMGP	12-18 Months
Winter Haven	Winter Haven	Stormwater Pump Project	Drainage	Flooding in MHP caused water damage some outdoor utilities and water covered interior roads and Cypress Gardens Rd. Solution to pump water to nearby Fox Lake.	5,6,9	Flood	Both	Winter Haven	\$250,000	HMGP	12-18 Months
Winter Haven	Winter Haven	Residential Stormwater Project (Platt)	Drainage	Flooding impacted home. Residents do not want to sell, but want to have flood issue resolved (Platt)	5,6,9	Flood	Both	Winter Haven	\$250,000	HMGP	12-18 Months
Winter Haven	Winter Haven	Residential Stormwater Project (Pederson)	Drainage	Flooding impacted home. Residents do not want to sell, but want to have flood issue resolved(Patterson)	5,6,9	Flood	Both	Winter Haven	\$250,000	HMGP	12-18 Months