

CHAPTER SEVEN: VULNERABILITY ASSESSMENT

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Introduction

Depending on the characteristics of the hazard and its impact, substantial components of the general population, business community, public services, community institutions and utilities are vulnerable to damage. In considering the vulnerability of Marion County to disasters, it is important to emphasize that some facilities and the populations they serve are often more sensitive to the impacts of disasters than others. For the purposes of the Vulnerability Analysis and Risk Assessment requirements of the LMS, only the weather related and natural hazards were analyzed. Ecological, technological, societal, and health related hazards remain applicable to Marion County; however, currently there are no set criteria for evaluating hazards not required by 44 CFR 201. At such time these review criteria are developed, they will be further analyzed in the LMS.

| Table VII-1 Hazards Affecting Marion County | | | | |
|--|----------------|-------------------|-------------------------------|------------------|
| Weather | Natural | Ecological | Technological/Societal | Health |
| Hurricane and Tropical Storm | Wildfire | Pest Infestation | Power Failure | Epidemic |
| Severe Winter Storm | Flood | Animal Disease | HazMat Incidents | Aging Population |
| Tornado | Drought | | Urban Fire | |
| Extreme Heat | Sinkholes | | Radiological | |
| | Riverine | | Societal/Civic | |
| | Erosion | | Evacuation | |
| | | | Mass Casualty | |
| | | | Traffic Related | |
| | | | Civil Disturbance | |
| | | | Terrorist Acts | |

Building Exposure

There are an estimated 153,000 buildings in the county with an estimated total building replacement value (excluding contents) of 32,871 million dollars. Approximately 98% of the buildings (and 81% of the building value) are associated with residential housing. Refer to table VII-2, Building Exposure by Occupancy Type.

**Table VII-2
Building Exposure by Occupancy Type**

| Occupancy | Exposure (\$1000) | Percent of Total |
|--------------|-------------------|------------------|
| Residential | 24,387,244 | 79.22% |
| Commercial | 4,229,912 | 13.74% |
| Industrial | 1,020,480 | 3.31% |
| Agricultural | 277,513 | 0.90% |
| Religious | 506,984 | 1.65% |
| Government | 107,379 | 0.35% |
| Education | 254,420 | 0.83% |
| Total | 30,783,932 | 100.00% |

Source: Hazus-MH Hurricane Event Report, probabilistic hurricane event model report, March 23, 2021.

Critical Facilities Overview

Critical facilities are important for both evacuation and sheltering. The County’s Critical Facilities Inventory is maintained by emergency management staff and updated annually to insure that preparedness and response actions can provide efficient evacuation, sheltering and recovery. The facilities that are important in the event of a hazard evacuation will vary based on the situation but typically include transportation facilities, medical facilities, communications facilities, potable water facilities, wastewater treatment plants, hospitals and schools. Additional facilities identified in the LMS include, emergency operations centers, mobile home parks, childcare centers, and hazardous waste generators.

Sensitive facilities can be critical from the evacuation standpoint because residents of prisons, nursing homes and hospitals will need extra evacuation support. Emergency managers have established agreements and procedures to address these issues. In Marion County, there are no critical facilities that demonstrate an overwhelming structural vulnerability to any particular hazard.

These infrastructure facilities are critical in a timely evacuation and need to be functioning at a level of service that supports evacuation and sheltering efforts. The Critical Facilities list was developed by the Marion County Growth Services Department and includes facilities identified in Table VII-3 thru Table VII-14 and shown on Map VII-2 thru Map VII-11.

Municipal and public buildings located in high risk areas are also an important consideration. Municipal buildings include police and fire stations that are critical during times of emergency. A listing of fire stations and sheriff stations are included in Table VII-12 and Table VII-13, respectively and shown in Map VII-12 and Map VII-13. Location information was obtained from the Marion County Fire

Department and the Marion County Sheriff's Office, respectively. Other municipal buildings that maintain County and City records would be best located outside of the vulnerability zones. In cases where municipal buildings exist in vulnerable locations, retrofitting the buildings to increase protection is a needed precaution.

EOC/Communication Facilities

| Table VII-3 Marion County Emergency Operations Centers | | | |
|---|---------------------------|-------------|------------|
| Name | Address | City | Zip |
| Marion County Division Of Emergency Mgt | 692 Nw 30th Avenue | Ocala | 34475 |
| State Fire College | 11655 Nw Gainesville Road | Ocala | 34482 |

| Table VII-4 Marion County Communications Facilities | | | |
|--|----------|-----------------------|------------------------|
| WHIJ | 88.1 FM | Ocala | Christian Contemporary |
| WYFZ | 91.3 FM | Bellevue | Religious |
| WEFA (LPFM) | 92.5 FM | Ocala | Adult Contemporary |
| WMFQ | 92.9 FM | Ocala | Top-40 |
| WOGK | 93.7 FM | Ocala | Country |
| WSKY | 97.3 FM | Micanopy | Talk |
| WRGE (LPFM) | 97.9 FM | Ocala | Religious |
| WGMA | 99.7 FM | Silver Springs Shores | Adult Contemporary |
| W261BA (WXUS-HD2) | 100.1 FM | Ocala | Oldies |
| WCKP (LPFM) | 100.7 FM | Ocala | Dance |
| WXUS | 102.3 FM | Dunnellon | Country |
| WIEB (LPFM) | 102.9 FM | Ocala | Spanish Christian |
| WRUF | 103.7 FM | Gainesville, FL | Country |
| WITG (LPFM) | 104.7 FM | Ocala | Classic Hits |
| W296CW (WTYG) | 107.1 FM | Ocala | Religious |
| WYND | 95.5 FM | Silver Springs Shores | Classic Rock |
| W242CA (WOCA-AM) | 96.3 FM | Ocala | News/Talk |
| WMOP | 900 AM | Ocala | Sports |
| WOCA | 1370 AM | Ocala | News/Talk |

Water/Wastewater Treatment Plants

Water and wastewater treatment plants are important due to the nature of their role in providing critical infrastructure for sheltering and recovery. If these facilities are damaged, extra warnings and precautions need to be provided to the population serviced by the damaged plant. Contamination of the water supply can come from one unplanned release of waste product due to storm damage. Cleanup of a water supply can take a significant amount of time during which all water would need to be sterilized before use. Providing information to the public is an important protocol in case of contamination. If wastewater

facilities do not have access to the public through television or radio, there must be coordination between the EOC and the wastewater facilities to provide initial reports and updates. Marion County does not include these facilities as part of their critical facilities inventory.

Reviewing the Comprehensive Emergency Management Plan provides a listing of protocols that will provide the appropriate level of preparedness for critical facilities. Each water/wastewater facility should have a list of protocols in case of an emergency including but not limited to: a) adequate potable water; b) restoration of water supply; c) provision of water for firefighting; and d) demolition or stabilization of damaged structures. Refer to Appendix D for Potable Water Facilities. Appendix E is a list of wastewater facilities.

Transportation Facilities

Navigable Waterway Facilities/Dam Facilities

| Table VII-5. Marion County Dam Facilities | | | |
|--|--------------------|--------------------------|-------------------|
| Name | County Name | Owner | River |
| Moss Bluff Lock And Spillway | Marion | SJRWMD | Ocklawaha River |
| Lake Joy | Marion | Silver Spring Shores Inc | TR-Marshall Swamp |

Marion County Military Facilities

| Table VII-6. Marion County Military Facilities | | | |
|---|--------------------|-------------|------------|
| Name | Address | City | Zip |
| Troop E 153rd Cav | 900 Sw 20th Street | Ocala | 34474 |
| Troop E 153rd Cav | 900 Sw 20th Street | Ocala | 34474 |
| Co A, 3rd Sf Bn, 20th Sf Gp | 900 Sw 20th Street | Ocala | 34474 |
| Co A, 3rd Sf Bn, 20th Sf Gp | 900 Sw 20th Street | Ocala | 34474 |

Private/Public Airfields

| Table VII-7. Marion County Airport Facilities | | | |
|--|---------------------------------------|------------|------------|
| LOCATION | AIRPORT NAME | USE | ID# |
| BELLEVIEW | BACK ACHERS | Private | 8FL3 |
| BELLEVIEW | JOHARY | Private | FL58 |
| BELLEVIEW | JORDAN | Private | 7FLO |
| BELLEVIEW | JORDAN | Private | FD79 |
| BELLEVIEW | KIEVER | Private | 8FL2 |
| BELLEVIEW | MONROE AIRPARK | Private | 2FA2 |
| BELLEVIEW | THE VILLAGES | Private | 19FL |
| CITRA | PANIOLA AIR RANCH | Private | FD14 |
| CITRA | THOMPSON'S GOINBROKE AERO RANCH | Private | 9FD5 |
| DUNNELLON | MARION COUNTY | Public | X35 |
| FAIRFIELD | RELUCTANT GREMLIN | Private | FA09 |
| HERNANDO | DRAKE RANCH | Private | 7FD2 |
| LOWELL | LEE FARMS | Private | FL80 |
| OCALA | ADVENT HEALTH OCALA | Private | 57FD |
| OCALA | BERNIE LITTLE | Private | FL49 |
| OCALA | CROSSWIND FARM | Private | FL19 |
| OCALA | EARLY BIRD | Private | FA86 |
| OCALA | FLYING DUTCHMAN RANCH | Private | FD29 |
| OCALA | JUMBOLAIR | Private | 17FL |
| OCALA | MC GINLEY | Private | FL61 |
| OCALA | OCALA INTL-JIM TAYLOR FLD | Public | OCF |
| OCALA | ORMC TRAUMA CENTER | Private | 3FD1 |
| OCALA | SHADY INTL | Private | FA49 |
| OCALA | SHERIFF'S NORTH MULTI DISTRICT OFFICE | Public | 1FL6 |
| OCALA | SHERIFF'S OPERATION CENTER | Public | 3FL3 |
| OCALA | SHERIFF'S SOUTH MULTI DISTRICT OFFICE | Public | FL68 |
| OCALA/BELLEVIEW | LEEWARD AIR RANCH | Private | FD04 |
| OKLAWAHA | WOODS AND LAKES AIRPARK | Private | FA38 |
| ORANGE SPRINGS | PATCH O BLUE | Private | FD02 |
| REDDICK | WINGS-N-WHEELS | Private | FA50 |
| WEIRSDALE | HOBBY HILL | Private | 2FD1 |
| WEIRSDALE | LOVE FLD | Private | 97FL |

Highway Facilities

| Table VII-8. Marion County Highway Facilities | | | |
|---|-----------------------|-----------|--------------------------|
| Name | Owner | Length | Type |
| Sw 60th Ave | | 1.969196 | Unknown |
| Sw 60th Ave | | 0.8257987 | Rural Minor Arterial |
| C326 | | 3.316925 | Rural Minor Arterial |
| C326 | | 3.233844 | Unknown |
| U441 | | 10.30713 | Rural Principal Arterial |
| U441 | | 8.581203 | Rural Principal Arterial |
| U301 | State Highway Agency | 8.660818 | Rural Principal Arterial |
| U27 | | 4.223543 | Urban Principal Arterial |
| I75 | State Highway Agency | 0.3702762 | Urban Interstate |
| S40 | State Highway Agency | 0.1556781 | Rural Principal Arterial |
| S19 | | 24.89587 | Rural Minor Arterial |
| S40 | State Highway Agency | 34.26529 | Rural Principal Arterial |
| S19 | | 0.4227517 | Rural Minor Arterial |
| U301 | | 1.611026 | Rural Principal Arterial |
| S326 | County Highway Agency | 0.8307849 | Rural Principal Arterial |
| C326 | State Highway Agency | 1.818772 | Urban Minor Arterial |
| C326 | State Highway Agency | 0.9934766 | Urban Minor Arterial |
| C326 | State Highway Agency | 7.477028 | Rural Minor Arterial |
| C326 | State Highway Agency | 1.446088 | Urban Minor Arterial |
| Nw 70th St | | 1.472152 | Unknown |
| I75 | State Highway Agency | 1.181602 | Urban Interstate |
| S40 | | 0.3606153 | Urban Principal Arterial |
| C42 | | 11.57793 | Unknown |
| C35 | | 0.506098 | Rural Principal Arterial |
| U27 | | 7.846969 | Rural Principal Arterial |
| U27 | | 0.4167731 | Rural Principal Arterial |
| C40 | | 1.584806 | Unknown |
| S200 | | 9.485158 | Rural Principal Arterial |
| U27 | | 1.218197 | Rural Principal Arterial |
| Se Maricamp Rd | | 2.477338 | Unknown |
| C25 | | 1.194177 | Rural Principal Arterial |
| I75 | State Highway Agency | 0.4546244 | Rural Interstate |
| C484 | | 0.372114 | Rural Minor Arterial |
| U301 | | 2.306276 | Urban Principal Arterial |
| C315 | | 35.38927 | Unknown |
| S40 | State Highway Agency | 1.711427 | Rural Principal Arterial |
| U301 | | 3.131317 | Urban Principal Arterial |
| Gainesville Rd | | 0.7774845 | Urban Principal Arterial |
| C314 | | 6.390356 | Rural Minor Arterial |
| S40 | State Highway Agency | 3.990294 | Rural Principal Arterial |
| S329 | | 11.76745 | Rural Minor Arterial |
| C336 | | 2.480435 | Unknown |
| C35 | | 6.751422 | Rural Minor Arterial |
| S329 | | 3.213621 | Rural Minor Arterial |
| S19 | | 2.846574 | Rural Minor Arterial |
| U301 | State Highway Agency | 7.429595 | Rural Principal Arterial |
| S329 | | 0.8270703 | Rural Minor Arterial |
| U27 | State Highway Agency | 10.9538 | Rural Principal Arterial |
| U27 | | 1.128757 | Urban Principal Arterial |
| U41 | | 11.4024 | Rural Minor Arterial |

| | | | |
|----------------|----------------------|------------|--------------------------|
| U41 | | 7.306502 | Rural Minor Arterial |
| C40 | | 6.802087 | Unknown |
| C484 | | 17.47515 | Rural Minor Arterial |
| U41 | | 0.5119864 | Rural Minor Arterial |
| U27 | | 0.8560318 | Urban Principal Arterial |
| U27 | State Highway Agency | 0.2832178 | Urban Principal Arterial |
| U27 | | 0.3144089 | Urban Principal Arterial |
| I75 | State Highway Agency | 0.4749639 | Urban Interstate |
| C450 | | 3.592716 | Unknown |
| C25 | | 2.48866 | Unknown |
| U301 | | 10.90252 | Rural Principal Arterial |
| U27 | | 12.35187 | Rural Principal Arterial |
| I75 | State Highway Agency | 0.5124583 | Rural Interstate |
| I75 | State Highway Agency | 0.5809954 | Urban Interstate |
| Se 110th St | | 1.036138 | Rural Principal Arterial |
| Se Maricamp Rd | | 2.047772 | Rural Minor Arterial |
| Se Maricamp Rd | | 0.984016 | Rural Minor Arterial |
| S464 | | 1.877766 | Rural Minor Arterial |
| Se Maricamp Rd | | 2.414919 | Rural Minor Arterial |
| Se 17th St | | 3.335691 | Unknown |
| U301 | State Highway Agency | 3.832807 | Rural Principal Arterial |
| C314 | | 22.66171 | Unknown |
| S40 | | 2.985886 | Urban Minor Arterial |
| U27 | | 0.08625149 | Urban Principal Arterial |
| U27 | | 0.7892577 | Urban Principal Arterial |
| S200 | | 3.691643 | Rural Principal Arterial |
| Sw 60th Ave | | 4.853933 | Rural Minor Arterial |
| U27 | | 7.919358 | Urban Principal Arterial |
| S40 | | 21.69802 | Rural Minor Arterial |
| S200 | | 9.677535 | Rural Principal Arterial |
| C42 | | 16.53655 | Unknown |
| Nw 60th Ave | | 1.948164 | Rural Minor Arterial |
| Nw 60th Ave | | 1.992345 | Rural Minor Arterial |
| Se Maricamp Rd | | 9.101056 | Rural Minor Arterial |
| I75 | State Highway Agency | 0.5273901 | Urban Interstate |
| S40 | | 3.953923 | Urban Principal Arterial |
| S40 | | 2.966739 | Urban Principal Arterial |
| S40 | | 11.66976 | Urban Principal Arterial |
| S326 | State Highway Agency | 2.812465 | Rural Minor Arterial |
| S40 | | 0.3613723 | Urban Principal Arterial |
| I75 | State Highway Agency | 0.5788867 | Urban Interstate |
| S200 | | 5.278409 | Urban Principal Arterial |
| I75 | State Highway Agency | 1.026185 | Urban Interstate |
| S200 | | 0.7866506 | Urban Principal Arterial |
| I75 | State Highway Agency | 2.876539 | Urban Interstate |
| U27 | State Highway Agency | 14.21763 | Rural Principal Arterial |
| U27 | State Highway Agency | 3.409841 | Rural Principal Arterial |
| C25 | | 9.693903 | Unknown |
| C25 | | 1.452847 | Unknown |
| C25 | | 8.633677 | Unknown |
| Baseline Rd | | 2.037417 | Rural Minor Arterial |
| Se Maricamp Rd | | 3.826906 | Unknown |
| I75 | State Highway Agency | 5.479926 | Rural Interstate |
| C326 | | 14.11063 | Rural Minor Arterial |

| | | | |
|------|----------------------|-----------|--------------------------|
| I75 | State Highway Agency | 25.65214 | Rural Interstate |
| S326 | State Highway Agency | 0.3754583 | Rural Minor Arterial |
| I75 | State Highway Agency | 0.4802522 | Rural Interstate |
| C326 | | 0.3760335 | Rural Minor Arterial |
| I75 | State Highway Agency | 0.4558333 | Rural Interstate |
| S200 | | 0.3787254 | Urban Principal Arterial |
| I75 | State Highway Agency | 0.5073485 | Urban Interstate |
| S200 | | 0.3879254 | Urban Principal Arterial |
| I75 | State Highway Agency | 0.532934 | Urban Interstate |
| C484 | | 12.45956 | Rural Minor Arterial |
| I75 | State Highway Agency | 7.529012 | Rural Interstate |
| C484 | | 14.45626 | Rural Minor Arterial |
| I75 | State Highway Agency | 12.45406 | Rural Interstate |
| C484 | | 0.3594722 | Rural Minor Arterial |
| C326 | State Highway Agency | 1.899198 | Rural Minor Arterial |
| C326 | State Highway Agency | 1.899198 | Rural Minor Arterial |
| U301 | State Highway Agency | 0.8076597 | Rural Principal Arterial |
| U301 | State Highway Agency | 0.8076597 | Rural Principal Arterial |

Bridge Facilities

| Table VII-9. Marion County Bridge Facilities | |
|---|-------------------|
| Name | Owner |
| CR 42 | Marion County |
| I-75 | FDOT |
| I-75 | FDOT |
| US 41 (SR 45) | FDOT |
| CR 484 | Marion County |
| Blue Cove Drive | City of Dunnellon |
| Blue Cove Drive | City of Dunnellon |
| US 441 | FDOT |
| CR 464 | Marion County |
| SW 66th Street | FDOT |
| SE 137th Ave Road | Marion County |
| I-75 (SR 93) | FDOT |
| I-75 (SR 93) | FDOT |
| SR 200 | FDOT |
| SR 200 | FDOT |
| I-75 (SR 93) | FDOT |
| I-75 (SR 93) | FDOT |
| C.R. 314 | Marion County |
| US 441 | FDOT |
| SR 492 | FDOT |
| SR 492 | FDOT |
| US 441 | FDOT |
| I-75 (SR 93) | FDOT |
| I-75 (SR 93) | FDOT |

| | |
|---------------------|---------------|
| SR 19 | FDOT |
| SR 40 | FDOT |
| NE 145th Ave Road | Marion County |
| NW 63 Street | FDOT |
| I-75 (SR 93) | FDOT |
| I-75 (SR 93) | FDOT |
| NW 100th Street | FDOT |
| SR 40 | FDOT |
| NE 105th Street | Marion County |
| CR 25A | Marion County |
| NW 120th Street | FDOT |
| US 441 | FDOT |
| I-75 (SR 93) | FDOT |
| I-75 (SR 93) | FDOT |
| CR 316 | FDOT |
| CR 316 | Marion County |
| CR 315 | Marion County |
| US 441 | FDOT |
| US 441 | FDOT |
| NE 148th Terrace Rd | Marion County |
| I-75 (SR 93) | FDOT |
| I-75 (SR 93) | FDOT |
| CR 315 | Marion County |
| I-75 (SR 93) | FDOT |
| I-75 (SR 93) | FDOT |
| CR 320 | FDOT |

Rail Facilities

| Table VII-10. Marion County Railway Facilities | | |
|---|--------------|---------------|
| Railway Segment Id | Owner | Length |
| FI000827 | FNOR | 0.2299484 |
| FI001502 | FNOR | 7.508278 |
| FI001503 | FNOR | 0.5829006 |
| FI001504 | FNOR | 0.2621745 |
| FI001505 | FNOR | 1.623427 |
| FI001506 | FNOR | 0.8868526 |
| FI001507 | FNOR | 0.2192504 |
| FI001508 | FNOR | 0.2337454 |
| FI001509 | FNOR | 0.2925448 |
| FI001510 | FNOR | 7.687151 |
| FI001511 | FNOR | 12.76381 |
| FI001512 | FNOR | 0.6339239 |
| FI001513 | FNOR | 0.1296391 |
| FI001514 | FNOR | 2.026971 |
| FI001515 | CSXT | 0.5001339 |

| | | |
|----------|------|------------|
| FI001516 | CSXT | 12.04849 |
| FI001517 | CSXT | 16.64683 |
| FI001518 | FNOR | 0.7636141 |
| FI001519 | FNOR | 0.847017 |
| FI001520 | FNOR | 0.09713368 |
| FI001521 | FNOR | 0.1447862 |
| FI001522 | CSXT | 0.10776 |
| FI001523 | FNOR | 0.4623752 |
| FI001524 | FNOR | 0.300481 |
| FI001525 | CSXT | 0.4133642 |
| FI001526 | CSXT | 14.33104 |
| FI001527 | FNOR | 6.456421 |
| FI001528 | CSXT | 9.303665 |
| FI001529 | FNOR | 0.4349523 |
| FI001530 | FNOR | 4.39315 |
| FI001531 | FNOR | 0.3063336 |
| FI001532 | FNOR | 5.270461 |
| FI001606 | FNOR | 0.274722 |
| FI001607 | CSXT | 0.3291693 |
| FI001608 | CSXT | 0.1803837 |
| FI001609 | FNOR | 1.080441 |
| FI001610 | FNOR | 8.409599 |
| FI001611 | CSXT | 9.489729 |

Rail Bridges

Table VII-11 Marion County Railway Bridges

| Railway Bridge Id | Name | Latitude | Longitude |
|-------------------|-------|----------|-----------|
| FI000006 | SCLRR | 29.16167 | -82.13333 |

Law Enforcement and Fire

Table VII-12. Marion County Fire Stations

| Station | Name | City | Type |
|---------|------------------------|--------------------|-------------|
| 1 | Anthony | Ocala | Combination |
| 2 | Citra | Citra | Combination |
| 3 | City Of Dunnellon | Dunnellon | Combination |
| 4 | East Marion | Silver Springs | Career |
| 5 | Florida Highlands | Dunnellon | Volunteer |
| 6 | South Forest | Umatilla | Volunteer |
| 7 | Fort Mccoy | Fort Mccoy | Career |
| 8 | Hog Valley | Fort Mccoy | Volunteer |
| 9 | Orange Lake | Reddick | Career |
| 10 | The Villages Of Marion | Villages Of Marion | Career |
| 11 | North Marion | Reddick | Career |
| 12 | Meadowood Farms | Ocala | Combination |

| | | | |
|----|-----------------------|--------------|-------------|
| 13 | Orange Springs | Fort Mccoy | Career |
| 14 | Rainbow Lakes Estates | Dunnellon | Volunteer |
| 15 | Salt Springs | Salt Springs | Combination |
| 16 | Shady | Ocala | Career |
| 17 | Silver Springs Shores | Ocala | Career |
| 18 | Belleview | Belleview | Career |
| 19 | Sparr | Citra | Career |
| 20 | Golden Ocala | Ocala | Combination |
| 21 | Friendship | Ocala | Combination |
| 22 | Rainbow Springs | Dunnellon | Career |
| 23 | Pedro | Summerfield | Volunteer |
| 24 | Marion Oaks | Ocala | Combination |
| 25 | Lake Tropicana | Dunnellon | Volunteer |
| 26 | Electra | Ocklawaha | Volunteer |
| 27 | Weirsdale | Weirsdale | Career |
| 28 | Rolling Greens | Ocala | Career |
| 29 | Rolling Woods | Umatilla | Volunteer |
| 30 | Spruce Creek | Summerfield | Career |
| 32 | Liberty | Ocala | Career |

Table VII-13. Marion County Police Stations

| Name | City |
|---|-------------|
| Bellevue Police Dept Headquarters | Bellevue |
| Citrus County Sheriff | Dunnellon |
| Marion County Sheriff Dunnellon District | Dunnellon |
| Dunnellon Police Dept Headquarters | Dunnellon |
| Marion County Sheriff Office | Ocala |
| Marion Co Sherriff Deputy-S Central District | Ocala |
| Marion County Sheriff North Multi District | Ocala |
| Marion County Sheriff Marion Oaks Dist. | Ocala |
| Marion County Sheriff's Department-South | Ocala |
| Marion County Sheriff Silver Springs Sherriff | Ocala |
| Ocala Police Department | Ocala |
| Ocala Police Department | Ocala |
| Ocala Police Department | Ocala |
| Marion County Sheriff Headquarters | Ocala |
| Central Florida Community College Police | Ocala |
| Ocala Police Department - District 1 | Ocala |
| F.B.I. Ocala Resident Office | Ocala |
| Marion County Sheriff Silver Springs Di* | Ocala |
| Marion County Sheriff South Multi Dist.* | Ocala |
| Ocala Police Department | Ocala |
| Marion County Sheriff Southwest Dist. | Ocala |
| Ocala Police Dept Headquarters | Ocala |
| Ocala Police Department | Ocala |
| Ocala Police Department | Ocala |
| Ocala Police Department - Emergency Service | Ocala |
| Ocala Police Department - Downtown Service | Ocala |
| Ocala Police Department | Ocala |
| Ocala Police Department | Ocala |
| Ocala Police Department - District 2 | Ocala |
| Florida Highway Patrol Troop G | Ocala |
| Florida Highway Patrol Ocala - Troop B | Ocala |
| U.S. Customs And Border Protection Port* | Ocala |
| Ocklawaha Sheriff's Department - Ocklawaha | Ocklawaha |
| Marion County Sheriff | Reddick |

Medical

Medical facilities will be one of the most problematic of all the facilities to evacuate. Presumably persons who are residing in the hospital are not capable of evacuating without assistance. The assistance needed may range from wheelchairs all the way up to cooperative movements with transit agencies for mass evacuations. Therefore, any medical facility needs to have its own protocols for small and mass evacuations in the event it is called upon to evacuate. There are three medical facilities in Marion County: AdvenHealth, Ocala Regional Medical Center, and West Marion Community Hospital. Because they are inland, they would experience a different type of situation than coastal counties. Inland facilities would be under duress from the overload of patients arriving from the facilities closer to the coast. Any of the medical facilities in the County may be called upon in a host capacity if a hurricane threatens another region, so having a plan is imperative. The medical facilities in Marion County are shown on Map VII-14 and listed in Appendix F.

Reviewing the Comprehensive Emergency Management Plan provides a list of protocols that will provide the appropriate level of preparedness for critical facilities. Each medical facility should have a list of protocols in case of an emergency including but not limited to staffing, needed equipment, public information, victim identification, etc.

One special area of concern is nursing homes. Some nursing homes may be able to double as medical facilities during a storm, but the quantity of equipment in a nursing home will be much lower than in a hospital. Many of the same protocols as the above medical facilities should be included in a nursing home plan. The major difference is the lack of responsibility to the general public. The nursing homes will be most concerned with their current residents and any additional medical supplies they can provide to the hospitals.

Evacuation of child care facilities also represents a significant challenge in the event of a major disaster. Identifying the location of each provider and the number of children each facility accommodates provides emergency managers with a means to assess the potential risk posed to facilities impacted by a major event. The locations of child care providers in Marion County are depicted on Map VII-15.

Schools

Most of the time there will be sufficient notice of an oncoming storm, and schools will be closed. Therefore, the location of the schools becomes important primarily for sheltering persons who choose to not go to hotels or to the homes of family and friends. Schools are used because of their size and built-in amenities including kitchens, plentiful space and multiple rooms for separation of groups or individuals if necessary. The schools that are set up as shelters will have sufficient supplies for a person or persons to endure a short stay. Those schools that are not opened as shelters may be required to open if the storm or number of individuals seeking shelter is greater than first expected. In such situations they are strictly emergency shelters. Due to the strength and timing of the storm there may not be enough time to supply these additional schools with more than basic necessities. These additional shelters can include private schools and church schools. Map VII-16 and Table VII-18 provides a listing of schools including their specific location. This information was obtained from the MarionCounty School Board.

Table VII-14

Marion County Public Schools

| Number | Name | Type | Location |
|--------|-----------------------|-------------------|----------------|
| 71 | Anthony | Elementary School | Anthony |
| 91 | Belleview | Elementary School | Belleview |
| 661 | Belleview High | High School | Belleview |
| 631 | Belleview Middle | Middle School | Belleview |
| 101 | Belleview-Santos | Elementary School | Belleview |
| 651 | College Park | Elementary School | Ocala |
| 311 | Dr. N.H. Jones | Elementary School | Ocala |
| 641 | Dunnellon | Elementary School | Dunnellon |
| 521 | Dunnellon High | High School | Dunnellon |
| 172 | Dunnellon Middle | Middle School | Dunnellon |
| 181 | East Marion | Elementary School | Silver Springs |
| 191 | Eighth Street | Elementary School | Ocala |
| 561 | Emerald Shores | Elementary School | Ocala |
| 581 | Evergreen | Elementary School | Ocala |
| 211 | Fessenden | Elementary School | Ocala |
| 351 | Forest High | High School | Ocala |
| 531 | Fort McCoy (6-8) | Middle School | Fort McCoy |
| 531 | Fort McCoy (K-5) | Elementary School | Fort McCoy |
| 9690 | Ft. King Middle | Middle School | Ocala |
| 221 | Greenway | Elementary School | Ocala |
| 671 | Hammett Bowen | Elementary School | Ocala |
| 711 | Harbour View | Elementary School | Summerfield |
| 591 | Horizon (gr. 5) | Elementary School | Ocala |
| 721 | Horizon (gr. 6-8) | Middle School | Ocala |
| 721 | Howard Middle | Middle School | Ocala |
| 51 | Lake Weir High | High School | Ocala |
| 501 | Lake Weir Middle | Middle School | Summerfield |
| 281 | Legacy | Elementary School | Ocala |
| 741 | Liberty Middle | Middle School | Ocala |
| 691 | Madison Street | Elementary School | Ocala |
| 291 | Maplewood | Elementary School | Ocala |
| 611 | Marion Charter School | Elementary School | Ocala |
| 9670 | Marion Oaks | Elementary School | Ocala |
| 731 | Marion Tech Inst | High School | Ocala |
| 9401 | McIntosh Area School | Elementary School | Ocala |
| 9680 | North Marion High | High School | Citra |
| 331 | North Marion Middle | Middle School | Citra |

| | | | |
|-----|-------------------|-------------------|-----------|
| 491 | Oakcrest | Elementary School | Ocala |
| 341 | Ocala Springs | Elementary School | Ocala |
| 541 | Osceola Middle | Middle School | Ocala |
| 361 | Reddick-Collier | Elementary School | Reddick |
| 162 | Romeo | Elementary School | Dunnellon |
| 621 | Saddlewood | Elementary School | Ocala |
| 681 | Shady Hill | Elementary School | Ocala |
| 551 | South Ocala | Elementary School | Ocala |
| 391 | Sparr | Elementary School | Sparr |
| 381 | Stanton-Weirsdale | Elementary School | Weirsdale |
| 401 | Sunrise | Elementary School | Ocala |
| 571 | Vanguard High | High School | Ocala |
| 461 | Ward-Highlands | Elementary School | Ocala |
| 251 | West Port | High School | Ocala |
| 701 | Wyomina Park | Elementary School | Ocala |

Sensitive Facilities

Other sensitive facilities and sites may pose a potential danger to the public. Items of the biggest concern in Marion County range from the evacuation of schools and day care centers to the limitations of allowing re-entry of persons into neighborhoods with unknown contaminants. The descriptions below are provided to allow emergency management a clear picture of the locations of such facilities and potential dangers.

Hazardous Sites

Hazardous sites include, but are not limited to, propane storage facilities, natural gas pipeline terminals, fuel storage facilities and tank farms. Each of these items can become extremely dangerous in a hurricane. Often propane tanks or fuel oil tanks are not secured in a hurricane proof fashion because they are not permanent structures. In the case that the structure is a facility versus a tank there is a higher level of risk as well as protection. Identifying locations of these sites will assist the safe re-entry into the area after a storm has passed. Additionally, it can help before a storm by indicating where a mitigation Strategy should be implemented.

Sabal Trail Pipeline - A new natural gas pipeline is proposed for construction beginning in 2016. The Sabal Trail underground natural gas pipeline project originates in Alabama, stretches through Georgia and terminates in Florida and, at completion, will be approximately 515 miles in length. Proposed construction in Marion County involves construction of approximately 33 miles of natural gas pipeline and one compressor station to be located near Dunnellon. Additional information and a map of the proposed alignment can be viewed at the following website: <http://www.sabaltrailtransmission.com/florida>.

Storage Tanks

Information on locations of facilities that have storage tanks either above ground or below ground is required by several government agencies. From this standpoint, finding the most up-to-date and accurate source of this data is important. The Florida Department of Environmental Protection maintains a database that allows the user to download spreadsheets listing the storage tanks by county. These storage tanks are important to emergency management in regards to the substances contained. If any of these tanks with hazardous wastes are damaged in a hurricane, the effects to the population can last longer than general cleanup of debris. These contaminants must be contained as soon as possible for emergency managers to re-enter an area. If the contaminants are allowed to leak for long periods of time the groundwater can be affected which can further damage the water supply, environment and wildlife.

Hazardous Waste Generating Facilities

Each county has a Hazards Analysis program, which includes a database of facilities that are responsible for hazardous materials. These facilities are classified as small quantity and large quantity generators. The number of generating facilities varies from county to county based on the land uses allowed by the counties. Counties with higher levels of industrial, agricultural and commercial land uses will normally have a greater number of hazardous generating facilities. The Marion County Hazardous Materials Facilities are shown on Map VII-1 and listed in Appendix C.

Institutional Populations

The other institutions that require special care may include prisons or detention centers. Marion County has three sensitive institutions that have restrictions to the residents on entering and leaving the facility. These include the Lowell Women's Prison, Marion Correctional Institution and the Marion County Jail.

Electrical Generating Facilities

Electrical generating facilities are critical due to the many functions that rely on an electrical power supply and the widespread use of electrical appliances by the populous. These facilities, if damaged, can cause power outages. Loss of power to a public service is more detrimental than a simple lack of electricity to a home. If a hospital, police, emergency management or any other public service loses electricity the ability to provide emergency services is extremely limited. Any medical or emergency service should have a listing of backup sources of power.

The Comprehensive Emergency Management Plan provides a listing of protocols that will provide the appropriate level of preparedness for critical facilities. Each energy facility should have a list of protocols in case of an emergency including but not limited to:

- Support agencies providing information, equipment, labor, fuel and repair
- Transportation of fuel or other emergency supplies
- Assess energy supply and demands in restoring systems – on a prioritized allocation method
- Setting up a system to process requests for fuel or power assistance

Mobile Home Parks

Another vulnerable population at any category of storm are residents of mobile home parks. Mobile home structures have a high risk for destruction in a hurricane if erected in wind or flood vulnerability areas. Mobile home residents, due to a lack of structural support, are usually encouraged to evacuate before residents of site-built homes and businesses. Because of their early evacuation, the transportation analysis will take into account the effect these residents have on the general process. The mobile home parks definition used for this document is the areas that have permanent residents, not including RV seasonal residents. The assumption is made that those residents who are mobile will, in fact, leave the area before the storm approaches. Map VII-17 and Appendix H provide a listing of the mobile home parks in Marion County, obtained from the Marion County Environmental Health Department.

Vulnerability by Jurisdiction

Due to the unpredictable nature of natural disasters, several areas in the County may experience impacts from a hazard event while other areas may experience minimal or no impacts. Therefore, understanding the vulnerability of any location in Marion County is extremely important. Vulnerability was assessed for each hazard and jurisdiction.

Assessment Methodology

The vulnerability assessment was conducted utilizing a Geographic Information System (GIS)- based analysis methodology. The results of the vulnerability assessment are provided for each hazard listed below. A GIS-based analysis was conducted for nine hazards: Hurricane and Tropical Storm; Drought; Extreme Heat; Flood; Tornado; Severe Winter Storm; Riverine Erosion; Sinkhole; And Wildfire.

For the GIS-based assessment, digital data was collected from local, state and national sources. ESRI® ArcGIS™ 9.3.1 was used to assess risk utilizing digital data including local tax records for individual parcels and georeferenced point locations for hazard events. Using these data layers, risk was assessed by estimating the assessed building value associated with parcels determined to be located in identified hazard areas. HAZUS-MH was also used to model hurricane force winds and estimate potential losses.

The objective of the GIS-based analysis was to determine the estimated vulnerability of people and buildings to the identified hazards for Marion County using best available geospatial data. In so doing, local databases made available through Marion County such as local tax assessor records and parcel boundaries, were used in combination with digital hazard data. The results of the analysis provided an estimated number of people, as well as the numbers and values of buildings determined to be potentially at risk to those hazards with delineable geographic hazard boundaries. A brief description of the GIS-based analysis for each particular hazard is provided under the vulnerability assessment section of each respective hazard.

Vulnerability Assessment Matrix

| Table VII-15. Multi-Jurisdictional Vulnerability Assessment Matrix | | | | | | |
|--|---------------------|-------|----------|-----------|---------|----------|
| Marion County Identified Natural Hazards | Unincorporated Area | Ocala | Bellevue | Dunnellon | Reddick | McIntosh |
| Drought | Low | Low | Low | Low | Low | Low |
| Flood | Medium | Low | Low | Medium | Low | Low |
| Riverine Erosion | Min | Low | Low | Min | Low | Low |
| Tornado | High | High | High | High | High | High |
| Hurricane | High | High | High | High | High | High |
| Wildfire | High | High | High | High | High | High |
| Extreme Heat | Low | Low | Low | Low | Low | Low |
| Sinkholes | Medium | High | High | High | Low | Low |
| Severe Winter Storm | Low | Low | Low | Low | Low | Low |

High – 1 event recorded per 1-4 years
 Medium – 1 event recorded per 5-9 years.
 Low – 1 event recorded per 10+ years.

Riverine erosion

The majority of riverine erosion is directly linked to hurricanes and other severe coastal storms. No communities lie on the banks of the Ocklawaha River. There is always the potential for the river to become inundated with water causing flooding and would affect only small communities not related to the denser populations of the municipalities. Properties within 25' of the river bank were included in the assessment.

| Table VII-16. Vulnerability Assessment: Riverine Erosion | | |
|--|--|---|
| Improved Parcels within 25' of River Bank | Exposure (Total Improved Value Of Parcels) | Potential Number of Individuals at Risk (2.32PPH) |
| 555 | 564,856,995 | 805 |

Sinkholes

Marion County has a variety of geologic rock and sediment types located within 10 feet of the land surface, limestone, clayey sand, sand and peat. Since proximity to existing sinkholes is the best predictor of future sinkhole activity, properties within 200' of an existing sinkhole were selected for inclusion in the vulnerability assessment.

| Table VII-17 Vulnerability Assessment: Sinkholes | | |
|--|--|---|
| Improved Parcels within 200' of an existing Sinkhole | Exposure (Total Improved Value Of Parcels) | Potential Number of Individuals at Risk (2.32PPH) |
| 1,453 | 679,031,217 | 2,784 |

The most potentially dangerous geologic formation for the creation of sinkholes is the location of limestone

near the surface. Every type of structure is vulnerable to sinkhole formation in the County. Structures located in the Area III portion of Map VII-18 and structures located approximate to an existing sinkhole are at greater risk regardless of the type of structure. In Map VII-18 and Map VII-19 a visual reference can be seen of both the geologic formation and the existing known sinkholes, respectively. The sinkholes that are known are mainly discovered and recorded by visual references. The known sinkholes for Marion County are presented in Appendix B.

Hurricanes and Tropical Storms

Between 1851 and 2020 approximately one hundred hurricanes of Category 1 to 5 have passed within one hundred miles of the Withlacoochee Region. With a minimal history of storms directly hitting the area and a coastline with a small population, the mathematical probabilities of hurricane damage and evacuation are limited. The Withlacoochee Region has been relatively safe from direct hits but storms hitting close to the region are similar to direct hits with regards to shelter strategies and other infrastructure related responsibilities. Map VII-20 depicts the frequency of hurricane events by County across the State.

Building-Related Losses

The building related losses are broken into two categories: direct property damage losses and business interruption losses. The direct property damage losses are the estimated costs to repair or replace the damage caused to the building and its contents. The business interruption losses are the losses associated with inability to operate a business because of the damage sustained during the hurricane. Business interruption losses also include the temporary living expenses for those people displaced from their homes because of the hurricane.

Table VII-18 below provides a summary of the losses associated with the building damage.

| Table VII-18 | | | | | |
|---|---------------|---------------|----------------|----------------|------------------|
| Building Related Economic Losses | | | | | |
| (thousands of dollars) | | | | | |
| | Event Type | | | | |
| | 10 Year | 20 year | 50 Year | 100 Year | 500 Year |
| Property Damage | 11,154 | 71,347 | 256,822 | 587,856 | 3,180,825 |
| Building Interruption Loss | 87 | 3,038 | 20,145 | 62,037 | 528,308 |
| Total | 11,241 | 74,385 | 276,967 | 649,893 | 3,709,133 |

Source: Hazus-MH Hurricane Event Report, probabilistic hurricane event model report, March 23, 2021.

Map VI-1 shows the hurricane tracks from the hurricanes that have directly affected Marion County in the past 150 years. Being prepared is always important regardless of the lack of recent hurricane history because of the vulnerable characteristics of the County.

Tornadoes

From NOAA’s storm prediction center <http://www.spc.noaa.gov/wcm/#data> , historical tornado path data was collected. Tornado path width can vary dramatically making it difficult to precisely identify areas at risk for tornado damage. The average width of tornado path’s in the Florida is approximately 58’. For the purposes of the vulnerability assessment, improved parcels within 1,000’ of a historical path were included in the analysis.

| Table VII-19 Vulnerability Assessment: Tornadoes | | |
|--|--|---|
| Improved Parcels within 1,000’ of an Historical Tornado Path | Exposure (Total Improved Value Of Parcels) | Potential Number of Individuals at Risk (2.32PPH) |
| 12,795 | 2,640,720,810 | 24,341 |
| | | |

Floods

Minor flooding occurs every year in Marion County. As seen in the updated FIRM FEMA Flood Maps and Repetitive Loss List data some areas of the County are more susceptible to future flooding. Any structure type that is located within a floodzone and is not elevated or is not protected by levees, beams, or floodwalls is vulnerable to flood damage.

| Table VII-20. Vulnerability Assessment: Flooding | | | |
|--|--|--|---|
| Jurisdiction | Improved Parcels within a FIRM Type “A” or “AE” Flood Zone | Exposure (Total Improved Value Of Parcels) | Potential Number of Individuals at Risk (2.32PPH) |
| Ocala | 2,449 | 1,003,268,432 | 4,640 |
| McIntosh | 16 | 2,430,510 | 16 |
| Belleview | 533 | 88,953,112 | 698 |
| Dunnellon | 397 | 105,203,518 | 354 |
| Reddick | 0 | 0 | 0 |
| Unincorporated | 15,654 | 3,381,333,954 | 16,291 |

Flooding can produce widespread impacts in both rural and urban areas. Any type of agricultural, commercial, or residential development located in a floodplain is vulnerable to flooding. Increasing urbanization in some areas enhances the threat of flooding where drainage systems cannot cope with the increased input of stormwater runoff. In rural areas, property damage caused by flooding can be devastating to farmers. When flooding occurs during the growing season, farmers can suffer widespread crop loss. In some cases, there may be an opportunity for a second planting of a less profitable crop. Livestock farmers may lose livestock if they are unable to find safety from rising floodwaters. This threat is primarily associated with flash flooding.

Wildfires

The entire county is at risk for wildfire. With Reddick, McIntosh, and Dunnellon at the highest risk for potentially damaged jurisdictions.

| Table VII-21. Vulnerability Assessment: Wildfires | | |
|--|--|--|
| Total Estimated Number Of Improved Parcels | Total Improved Value Of Parcels | Potential Number of Individuals at Risk (2.32PPH) |
| 145,559 | \$19,500,306,941 | 330,440 |

Drought

The primary agriculture product is crops and livestock, which is somewhat more resistant to drought than a vegetable crop. Any drought or heat wave will have a detrimental effect on the County. There are no recorded extended droughts, though there have been many seasonal droughts. Drought primarily affects farming and agricultural production. For purposes of the drought vulnerability assessment, parcels with bona fide farming operations were included in the analysis.

| Table VII-22. Vulnerability Assessment: Drought | |
|--|--|
| Total Estimated Number Farms | Total Improved Value Of Parcels |
| 3,496 | 725,733 |

Extreme Heat

Extreme heat can have a number of deleterious effects on the human body. These include in order of increasing severity, sunburn, heat cramps, heat exhaustion, and heat stroke. In addition to the effects on individuals, various sectors of the agriculture community are affected by extreme heat. Livestock, such as rabbits and poultry, are severely impacted by heat waves. Millions of birds have been lost during heat waves. Milk production and cattle reproduction also decreases during heat waves. Also, the electric transmission system is impacted when power lines sag in high temperatures. The combination of extreme heat and the added demand for electricity to run air conditioning causes transmission line temperatures to rise.

| Table VII-23 Vulnerability Assessment: Extreme Heat | | |
|--|--|--|
| Total Estimated Number Of Improved Parcels | Total Improved Value Of Parcels | Potential Number of Individuals at Risk (2.32PPH) |
| 145,559 | \$19,500,306,941 | 330,440 |

Severe Winter Storms

Freezes are the relatively the same as drought/heat wave in the affect they could have on seasonal vegetable crops but not on the more resistant timber crops or livestock. There have been seasonal hard freezes that have dipped well below the freezing point, but the majority of the freezing weather hovers around 32 degrees Fahrenheit. The entire County is vulnerable to severe winter storms.

| Table VII-24. Vulnerability Assessment: Severe Winter Storm | | |
|---|---------------------------------|---|
| Total Estimated Number Of Improved Parcels | Total Improved Value Of Parcels | Potential Number of Individuals at Risk (2.32PPH) |
| 145,559 | \$19,500,306,941 | 330,440 |

Man Made Hazards

Hazardous sites can include, but are not limited to, propane storage facilities, natural gas pipeline terminals, fuel storage facilities and tank farms. All of these items can become extremely dangerous in a hurricane. Often propane tanks or fuel oil tanks are not secured in a hurricane proof fashion because they are not permanent structures. In the case that the structure is a facility versus a tank there is a higher level of risk as well as protection. Identifying the location of these sites will assist the safe reentry into the area after a storm has passed. In addition it can help before a storm by indicating where a mitigation strategy should be implemented.

Repetitive Loss Properties

Flood losses for Marion County are shown in Table VII-25. Additionally, Table VII-26 includes properties that have experienced repetitive losses due to flooding. Marion County has experienced relatively few flooding events and as Table VII-32 indicates, there are few properties at risk of ongoing flood damage. However, the history of various flooding events in the state shows a much greater potential for losses. Dense populations of Marion County are not particularly vulnerable to flooding therefore flood damage costs are expected to be significantly lower than a statewide average would assume.

| VII-25. Flood Loss Statistics by Jurisdiction 01/01/1978 - 07/31/2009 | | | | | |
|---|--------------|---------------|-------------|-------------|----------------|
| Community Name | Total Losses | Closed Losses | Open Losses | CWOP Losses | Total Payments |
| City Of Ocala | 23 | 18 | 0 | 5 | 223,813.80 |
| City Of Dunnellon | 6 | 3 | 0 | 3 | 11,310.19 |

Source: National Flood Insurance Program Statistics

| Table VII-26. Repetitive Loss Properties | | | | | | | | | |
|--|---------|---------------|-------------|------|------|------------------------|------------------------|------------------|------------|
| Mitigated | Insured | City | Occupancy | Zone | Firm | Total Building Payment | Total Contents Payment | Number of Losses | Total Paid |
| No | Yes | Citra | Single Fmly | A | Y | 17,388.65 | 0.00 | 2 | 17,388.65 |
| No | No | Marion County | Single Fmly | C | N | 44,025.67 | 0.00 | 2 | 44,025.67 |
| No | Yes | Ocala | Single Fmly | X | Y | 8,973.95 | 0.00 | 2 | 8,973.95 |
| No | No | Marion County | Single Fmly | C | Y | 94,000.00 | 21,713.22 | 2 | 115,713.22 |

Source: Marion County Growth Services Department, 2018.

Future Development

The vulnerability of future development is hard to determine. Marion County has maintained its agriculture nature for some time. With the onset of development in the counties south of Marion there will be plenty of growth occurring in the coming years. Looking at the population projections below the explosion of the population is very evident. If the numbers remain accurate there will be an ever increase need for mitigation of potential hazards. Refer to Table VII-27, Projected Population, 2015-2040.

Table VII-27
Projected Population 2015 – 2040
Marion County

| | Census 2010 | PROJECTED POPULATION | | | | | |
|----------------------------|----------------|----------------------|---------|---------|---------|---------|---------|
| | | 2015 | 2020 | 2025 | 2030 | 2035 | 2040 |
| Incorporated Cities | | | | | | | |
| Bellevue | 4,492 | 4,704 | 5,156 | 5,578 | 5,970 | 6,338 | 6,647 |
| Dunnellon | 1,733 | 1,815 | 1,989 | 2,152 | 2,303 | 2,445 | 2,564 |
| McIntosh | 452 | 473 | 519 | 561 | 601 | 638 | 669 |
| Ocala | 56,315 | 58,978 | 64,645 | 69,934 | 74,849 | 79,460 | 83,333 |
| Reddick | 506 | 530 | 581 | 628 | 673 | 714 | 749 |
| Unincorporated Area | 267,800 | 280,464 | 307,412 | 332,564 | 355,934 | 377,864 | 396,279 |
| Marion County Total | 331,298 | 346,964 | 380,302 | 411,417 | 440,330 | 467,459 | 490,241 |

Source:

Census 2010 STF 1 and University of Florida, BEBR Report 169, P. 48, June, 2014.

Note:

Projection is based on BEBR medium projection.

Looking at the trends in population growth determination of the effect these growth trends and population expansions are creating needs to be quantified. Below is a table showing the municipalities and the unincorporated area of the county's growth and its effect on disasters. The information is directly linked to growth. The parts of the community that are experiencing very little growth do not have the same concerns over "future development".

The rating is High (H), Medium (M) and Low (L). The value of H indicates a disaster requiring an extensive

amount of mitigation. The value of M indicates where there may be some extra incidents due to the growth trend, but not an excessive need for mitigation. Finally, L means that an increase in population and development trends will have little to no effect on the detrimental aspects of that hazard. The predictions imply that there will be growth primarily in Ocala and the unincorporated areas of the County. It is difficult to measure precisely where people will be living in the unincorporated areas. With that in mind the information is primarily limited to the jurisdictions.

| Table VII-28. Marion County Hazard Effect on Potential Growth | | | | | | | | | |
|---|------------------|----------|---------------------------|---------|-------|----------|--------------|---------|--------------|
| Jurisdiction | Hazard Type | | | | | | | | |
| | Riverine Erosion | Sinkhole | Hurricane/ Tropical Storm | Tornado | Flood | Wildfire | Extreme Heat | Drought | Winter Storm |
| Bellevue | L | M | L | M | L | L | L | L | L |
| Dunnellon | H | L | H | M | H | L | L | L | L |
| McIntosh | L | M | L | L | L | L | L | L | L |
| Ocala | L | H | M | M | L | L | L | L | L |
| Reddick | L | M | L | L | L | L | L | L | L |
| Uninc. County | M | H | H | M | M | M | L | L | L |

Looking now at what already exists in the County, a clearer picture of the potential damage to buildings, human populations and the areas most in need of mitigation projects becomes apparent.

The Future Land Use Map for the County is displayed in Map VII-21. This map is the most up to date data and includes land use information for Marion County and the incorporated jurisdictions. It is clear from this map that the majority of the land remains in rural, agriculture and conservation land uses. The populations are relatively compact in regards to land use ratios. As discussed in a previous question, a chart was developed to indicate which jurisdiction has the highest potential for damage from any one hazard. Therefore if future development is to occur in or near the existing jurisdiction an effort to address the specific hazard needs to be made.