



# COLLIER COUNTY FLOODPLAIN MANAGEMENT PLAN

**FLOODPLAIN MANAGEMENT PLAN  
WORKING GROUP – MEETING #2**

August 4, 2026





# Introductions

## Floodplain Management Plan Working Group

| Name                  | Government Agency Division & Agency                                       |
|-----------------------|---------------------------------------------------------------------------|
| Kenneth Bills         | N/A - Civilian BCC District Representative                                |
| Stanley Chrzanowski   | N/A - Civilian BCC District Representative                                |
| Amy Ernst             | N/A - Civilian BCC District Representative                                |
| Lisa Koehler          | N/A - Civilian BCC District Representative                                |
| William Miller        | N/A - Civilian BCC District Representative                                |
| Linda Orlich          | N/A - Civilian BCC District Representative                                |
| Paul Shea             | N/A - Civilian BCC District Representative                                |
| Dennis Vasey          | N/A - Civilian BCC District Representative                                |
| Terry Smallwood       | City of Everglades Building Department                                    |
| Malek Hall            | City of Marco Island Building Department                                  |
| Robert Dorta          | City of Naples Building Department                                        |
| Amy Howard            | Collier County Emergency Management, County Manager Operations Dept.      |
| Eric Johnson          | Collier County Planning, Growth Management Dept.                          |
| Matthew McLean        | Public Utilities Engineering                                              |
| Francisco Pena Guerra | SFWMD                                                                     |
| Peter Hayden          | Stormwater/Transportation Engineering, Transportation Mgmt Services Dept. |
| Joshua Starrett       | Collier County Emergency Management, County Manager Operations Dept.      |
| Kari Hodgson          | Solid Hazardous Waste, Public Utilities Dept.                             |
| Kent Feng             | SFWMD                                                                     |
| Andrew Miller         | Coastal Zone Management, Transportation Management Services Dept.         |

## WSP Consulting Team & Contact Info

David Stroud, CFM – david.stroud@wsp.com

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Ranger Ruffins, CFM – ranger.ruffins@wsp.com

## Collier County Leads

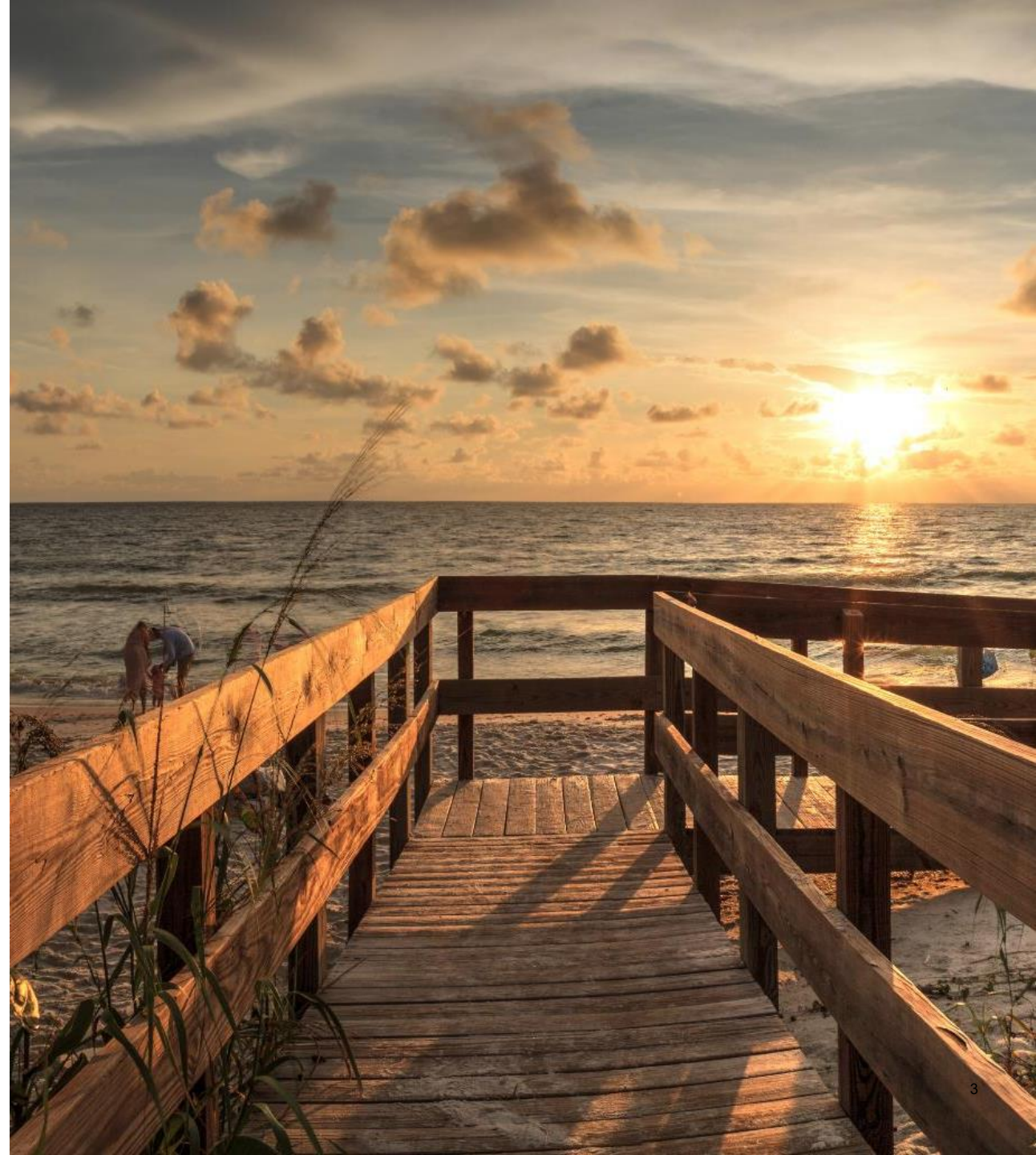
Christopher Mason – Community Planning & Resiliency Division Director

Tonia Selmeski – Community Planning & Resiliency Planner III

Howard Critchfield - Engineering Manager – Community Planning & Resiliency

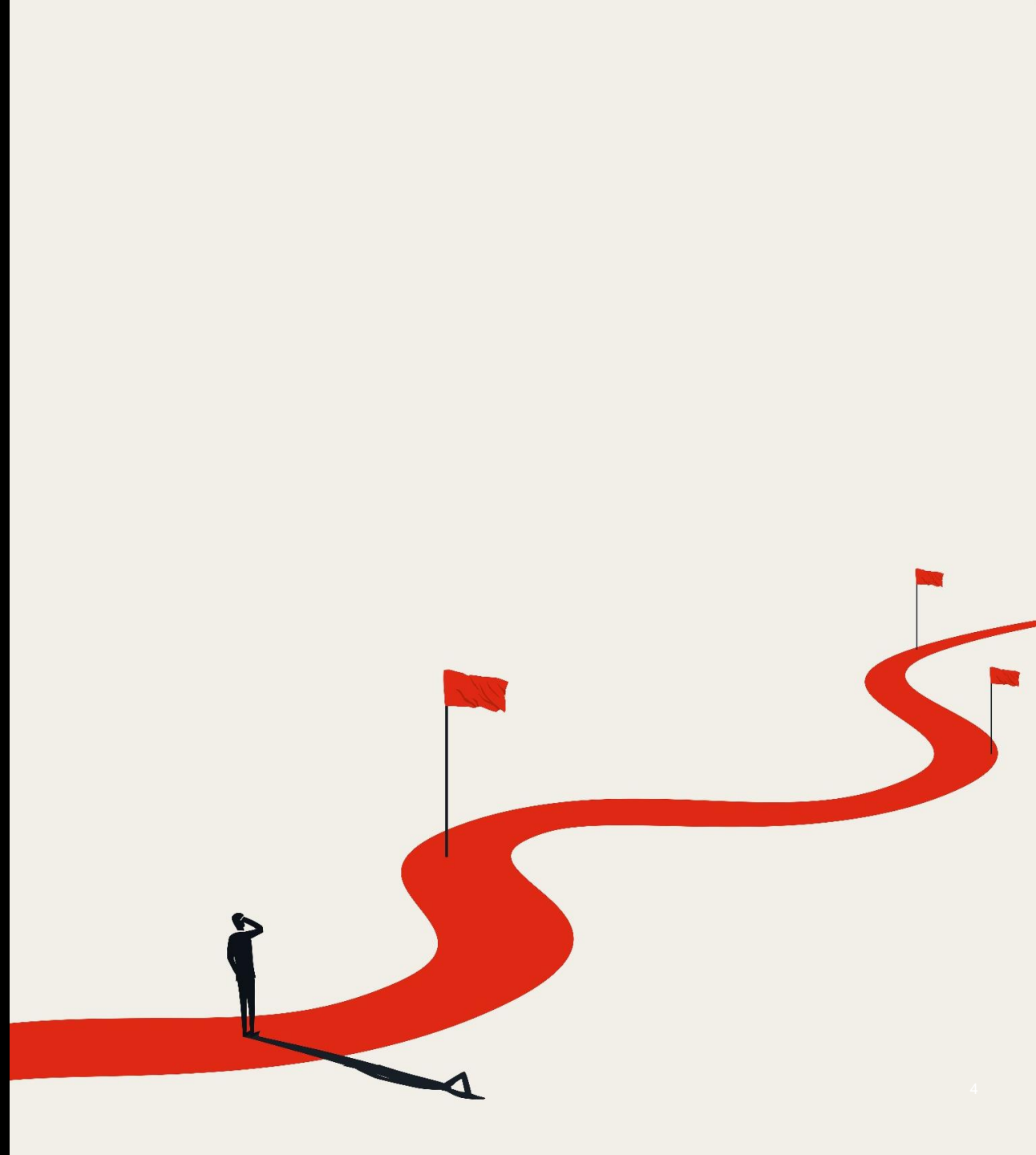
# Agenda

- Planning Process Update
- Hazard Identification & Risk Assessment (HIRA) Review
  - HIRA overview
  - Hazards Identification and Flood History
  - Asset Inventory
  - Hazard Profiles – Risk and Vulnerability Assessment
- Survey Update
- Next Steps
- Questions
- *The Hydraulic Squeeze: Reconciling Linear Planning with Exponential Reality*, Dennis P. Vasey



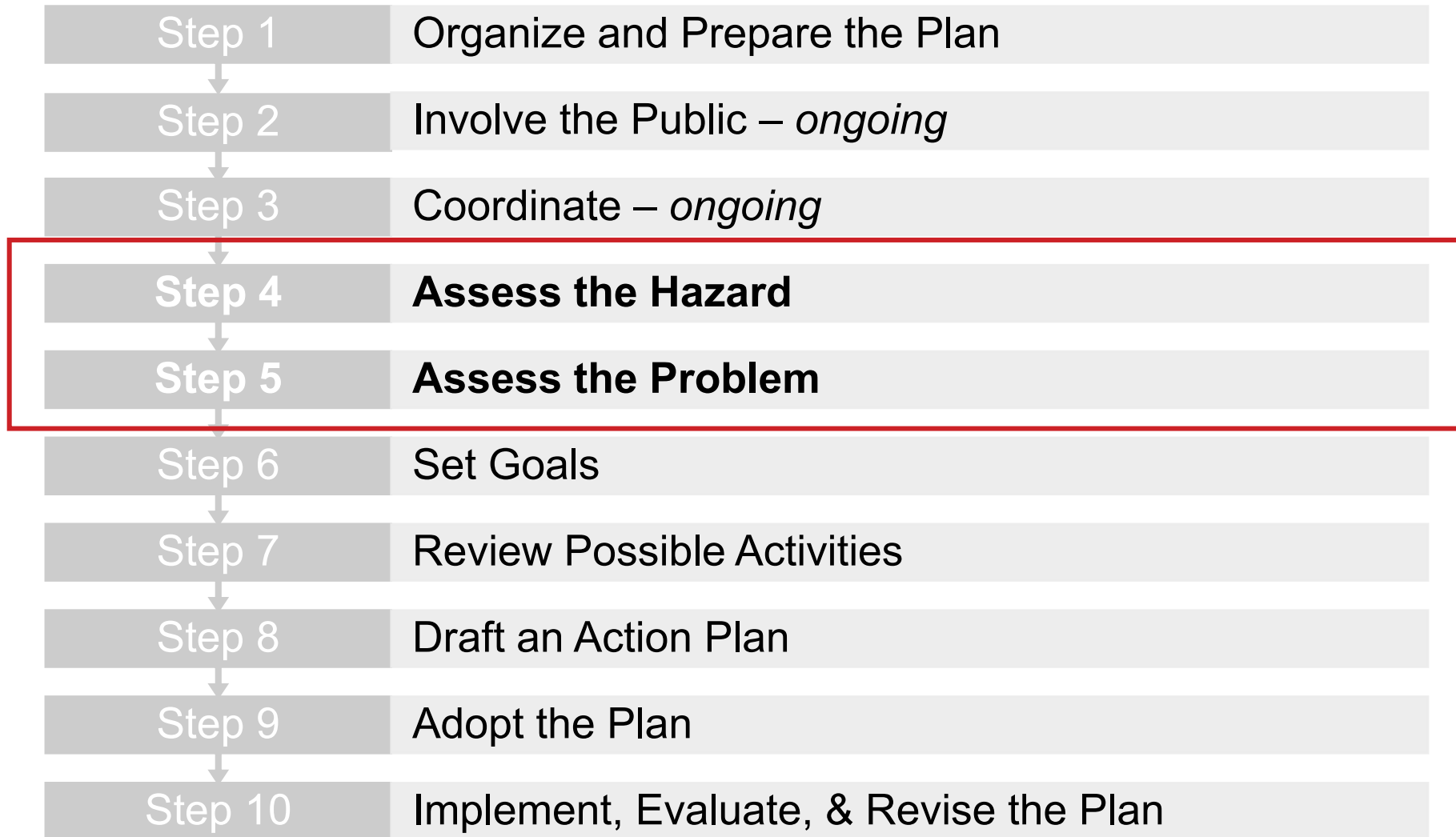


# PLANNING PROCESS UPDATE





# Planning Process





# Hazard Identification & Risk Assessment (HIRA) Process

1. Identify Hazards



2. Profile Hazard Events



3. Inventory Assets



4. Estimate Losses

Risk = combination of hazard, vulnerability, and exposure, each factor is assessed in the process



# HIRA REVIEW





# HIRA Organization

Data collected through this process is organized into the following plan sections:

## **Section 4: Flood Risk Assessment**

- 4.1: Hazard Identification
- 4.2: Risk Assessment Methodology
- 4.3: Asset Inventory
- 4.4: Hazard Profiles, Analysis, and Vulnerability
- 4.5: Risk and Vulnerability Conclusions



# Hazard Identification

| Flood Hazard                  | Included in 2023 State Plan? | Included in 2015 Collier County FMP? | Included in 2025 Local Mitigation Strategy? |
|-------------------------------|------------------------------|--------------------------------------|---------------------------------------------|
| Sea Level Rise                | Discussed with Flood         | ✓                                    | ✓                                           |
| Coastal/Canal Bank Erosion    | ✓                            | ✓                                    | ✓                                           |
| Dam/Levee Failure             | ✓                            | ✓                                    | -                                           |
| Coastal and Inland Flooding   | ✓                            | ✓                                    | ✓                                           |
| Stormwater/Localized Flooding | -                            | ✓                                    | Discussed with Flood                        |
| Hurricane/Tropical Storm      | ✓                            | ✓                                    | ✓                                           |



# Flood-Related Disaster Declarations – Collier County

## 23 Flood-related Disaster Declarations (31 total)

- 18 Hurricanes and Tropical Storms
- 4 Severe Storms
- 1 Coastal Storm

## 14 Flood-related Emergency Declarations (16 Total)

- 12 Hurricanes and Tropical Storms
- 2 Severe Storms

*Only flood declarations included in table and plan*

## Disaster Declarations

| Disaster # | Declaration Date | Incident Type  | Incident Title                                                                 |
|------------|------------------|----------------|--------------------------------------------------------------------------------|
| 209        | 1965-09-14       | Hurricane      | Hurricane Betsy                                                                |
| 955        | 1992-08-24       | Hurricane      | Hurricane Andrew                                                               |
| 1069       | 1995-10-04       | Hurricane      | Hurricane Opal                                                                 |
| 1195       | 1998-01-06       | Severe Storm   | Severe Storms, High Winds, Tornadoes, and Flooding                             |
| 1306       | 1999-10-20       | Hurricane      | FL - Hurricane Irene-dr-req*                                                   |
| 1345       | 2000-10-04       | Severe Storm   | Severe Storms and Flooding                                                     |
| 1393       | 2001-09-28       | Coastal Storm  | Severe Storms, Tornadoes and Flooding Associated With Tropical Storm Gabrielle |
| 1539       | 2004-08-13       | Hurricane      | Tropical Storm Bonnie and Hurricane Charley                                    |
| 1545       | 2004-09-04       | Hurricane      | Hurricane Frances                                                              |
| 1551       | 2004-09-16       | Hurricane      | Hurricane Ivan                                                                 |
| 1561       | 2004-09-26       | Hurricane      | Hurricane Jeanne                                                               |
| 1602       | 2005-08-28       | Hurricane      | Hurricane Katrina*                                                             |
| 1609       | 2005-10-24       | Hurricane      | Hurricane Wilma                                                                |
| 1785       | 2008-08-24       | Severe Storm   | Tropical Storm Fay*                                                            |
| 4068       | 2012-07-03       | Severe Storm   | Tropical Storm Debby*                                                          |
| 4084       | 2012-10-18       | Hurricane      | Hurricane Isaac                                                                |
| 4337       | 2017-09-10       | Hurricane      | Hurricane Irma*                                                                |
| 4673       | 2022-09-29       | Hurricane      | Hurricane Ian*                                                                 |
| 4680       | 2022-12-13       | Hurricane      | Hurricane Nicole*                                                              |
| 4734       | 2023-08-31       | Hurricane      | Hurricane Idalia*                                                              |
| 4806       | 2024-08-10       | Tropical Storm | Hurricane Debby                                                                |
| 4828       | 2024-09-28       | Hurricane      | Hurricane Helene*                                                              |
| 4834       | 2024-10-11       | Hurricane      | Hurricane Milton*                                                              |



# NCEI Reported Hazard Events for Collier County: 1996-2025

| Type                | # of Events | Property Damage        | Deaths   |
|---------------------|-------------|------------------------|----------|
| Coastal Flood       | 11          | \$71,000               | 0        |
| Flash Flood         | 12          | \$565,000              | 0        |
| Flood               | 29          | \$43,500               | 0        |
| Heavy Rain          | 6           | \$60,000               | 0        |
| High Surf           | 0           | \$0                    | 0        |
| Hurricane (Typhoon) | 10          | \$2,425,000,000        | 1        |
| Storm Surge/Tide    | 11          | \$8,138,000            | 3        |
| Tropical Depression | 10          | \$0                    | 0        |
| Tropical Storm      | 14          | \$560,415,000          | 0        |
| <b>Total</b>        | <b>103</b>  | <b>\$2,994,292,500</b> | <b>4</b> |

Note: No reported crop loss or injuries  
Source: NCEI Storm Events Database, April 2026

NCEI only captures what is reported to the system.

Not an exhaustive report of damage and loss.



# Building Exposure

Estimated building counts are based on 2025 parcel and appraiser data

Content values are estimated using FEMA Hazus methodology

| Land Use     | Estimated Building Count | Total Building Value | Estimated Content Value | Total Value       |
|--------------|--------------------------|----------------------|-------------------------|-------------------|
| Agricultural | 579                      | \$79,809,392         | \$79,809,392            | \$159,618,784     |
| Commercial   | 5,301                    | \$9,400,647,214      | \$9,400,647,214         | \$18,801,294,428  |
| Education    | 350                      | \$1,193,660,082      | \$1,193,660,082         | \$2,387,320,164   |
| Government   | 80                       | \$360,862,629        | \$360,862,629           | \$721,725,258     |
| Industrial   | 356                      | \$415,552,605        | \$623,328,908           | \$1,038,881,513   |
| Religious    | 241                      | \$424,220,453        | \$424,220,453           | \$848,440,905     |
| Residential  | 121,977                  | \$72,523,316,298     | \$36,261,658,149        | \$108,784,974,447 |
| Total        | 128,884                  | \$84,398,068,673     | \$48,344,186,827        | \$132,742,255,500 |

Source: Collier County Property Appraiser parcel data, 2025-2026



# Priority Risk Index (PRI)

- The purpose of the PRI is to categorize and prioritize all potential hazards for the county as high, moderate, or low risk
- The sum of all five risk assessment categories equals the final PRI value
- PRI value can range from 1.0 to 4.0

| RISK ASSESSMENT CATEGORY                                                                                                                                                      | LEVEL            | DEGREE OF RISK CRITERIA                                                                                                                                       | INDEX | WEIGHT |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|
| <b>PROBABILITY</b><br>What is the likelihood of a hazard event occurring in a given year?                                                                                     | UNLIKELY         | LESS THAN 1% ANNUAL PROBABILITY                                                                                                                               | 1     | 30%    |
|                                                                                                                                                                               | POSSIBLE         | BETWEEN 1 & 10% ANNUAL PROBABILITY                                                                                                                            | 2     |        |
|                                                                                                                                                                               | LIKELY           | BETWEEN 10 & 100% ANNUAL PROBABILITY                                                                                                                          | 3     |        |
|                                                                                                                                                                               | HIGHLY LIKELY    | 100% ANNUAL PROBABILITY                                                                                                                                       | 4     |        |
| <b>IMPACT</b><br>In terms of injuries, damage, or death, would you anticipate impacts to be minor, limited, critical, or catastrophic when a significant hazard event occurs? | MINOR            | VERY FEW INJURIES, IF ANY. ONLY MINOR PROPERTY DAMAGE & MINIMAL DISRUPTION ON QUALITY OF LIFE. TEMPORARY SHUTDOWN OF CRITICAL FACILITIES.                     | 1     | 30%    |
|                                                                                                                                                                               | LIMITED          | MINOR INJURIES ONLY. MORE THAN 10% OF PROPERTY IN AFFECTED AREA DAMAGED OR DESTROYED. COMPLETE SHUTDOWN OF CRITICAL FACILITIES FOR > 1 DAY                    | 2     |        |
|                                                                                                                                                                               | CRITICAL         | MULTIPLE DEATHS/INJURIES POSSIBLE. MORE THAN 25% OF PROPERTY IN AFFECTED AREA DAMAGED OR DESTROYED. COMPLETE SHUTDOWN OF CRITICAL FACILITIES FOR > 1 WEEK.    | 3     |        |
|                                                                                                                                                                               | CATASTROPHIC     | HIGH NUMBER OF DEATHS/INJURIES POSSIBLE. MORE THAN 50% OF PROPERTY IN AFFECTED AREA DAMAGED OR DESTROYED. COMPLETE SHUTDOWN OF CRITICAL FACILITIES > 30 DAYS. | 4     |        |
| <b>SPATIAL EXTENT</b><br>How large of an area could be impacted by a hazard event? Are impacts localized or regional?                                                         | NEGLECTIBLE      | LESS THAN 1% OF AREA AFFECTED                                                                                                                                 | 1     | 20%    |
|                                                                                                                                                                               | SMALL            | BETWEEN 1 & 10% OF AREA AFFECTED                                                                                                                              | 2     |        |
|                                                                                                                                                                               | MODERATE         | BETWEEN 10 & 50% OF AREA AFFECTED                                                                                                                             | 3     |        |
|                                                                                                                                                                               | LARGE            | BETWEEN 50 & 100% OF AREA AFFECTED                                                                                                                            | 4     |        |
| <b>WARNING TIME</b><br>Is there usually some lead time associated with the hazard event? Have warning measures been implemented?                                              | MORE THAN 24 HRS | SELF DEFINED                                                                                                                                                  | 1     | 10%    |
|                                                                                                                                                                               | 12 TO 24 HRS     | SELF DEFINED                                                                                                                                                  | 2     |        |
|                                                                                                                                                                               | 6 TO 12 HRS      | SELF DEFINED                                                                                                                                                  | 3     |        |
|                                                                                                                                                                               | LESS THAN 6 HRS  | SELF DEFINED                                                                                                                                                  | 4     |        |
| <b>DURATION</b><br>How long does the hazard event usually last?                                                                                                               | LESS THAN 6 HRS  | SELF DEFINED                                                                                                                                                  | 1     | 10%    |
|                                                                                                                                                                               | LESS THAN 24 HRS | SELF DEFINED                                                                                                                                                  | 2     |        |
|                                                                                                                                                                               | LESS THAN 1 WEEK | SELF DEFINED                                                                                                                                                  | 3     |        |
|                                                                                                                                                                               | MORE THAN 1 WEEK | SELF DEFINED                                                                                                                                                  | 4     |        |

**PRI = [(PROBABILITY x .30) + (IMPACT x .30) + (SPATIAL EXTENT x .20) + (WARNING TIME x .10) + (DURATION x .10)]**



Please note any potential changes as we review the hazard profiles

# Priority Risk Index Results

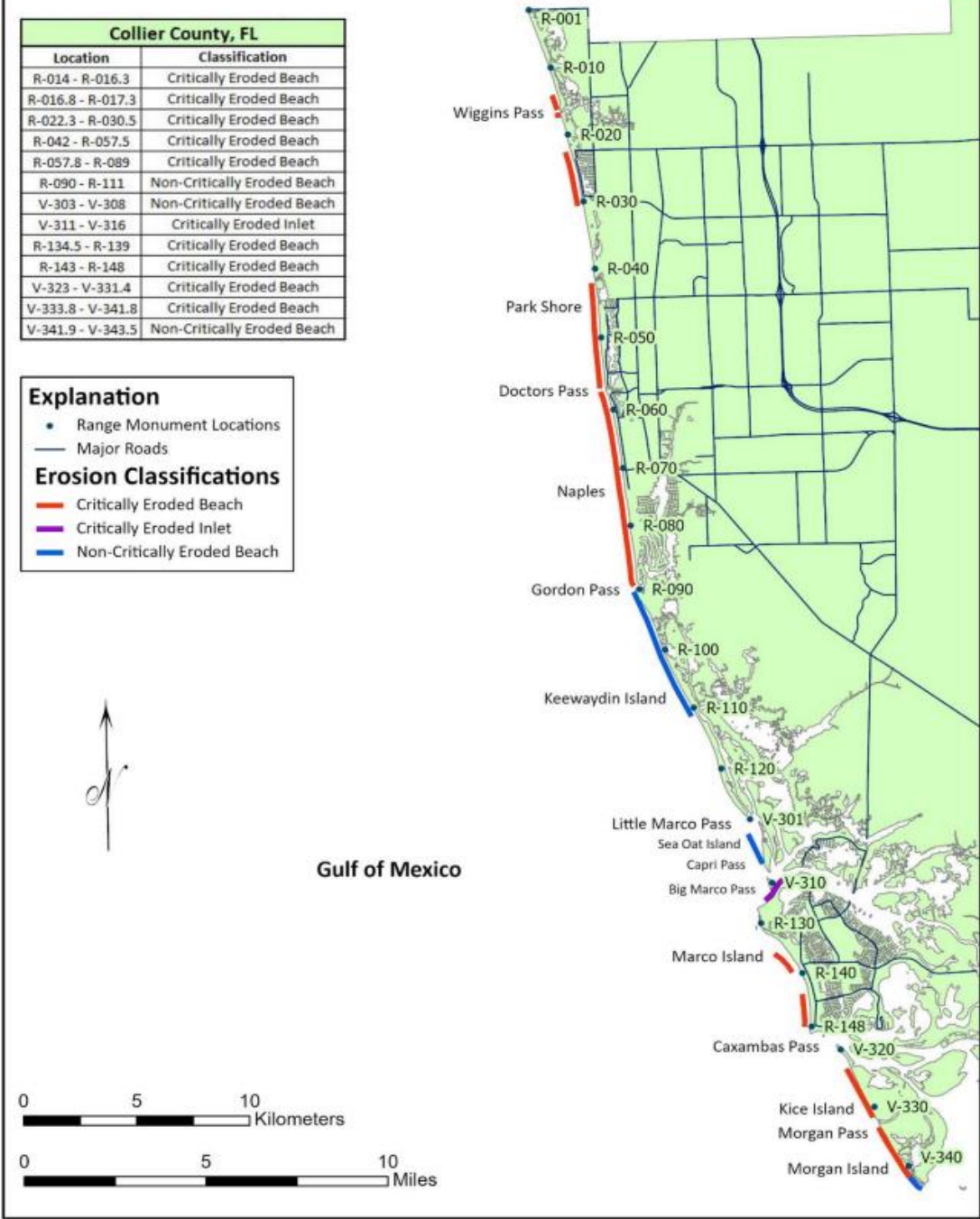
| High | Moderate | Low  |
|------|----------|------|
| ≥3.0 | 2.0-2.9  | <2.0 |

| Hazard                        | Probability   | Impact   | Spatial Extent | Warning Time       | Duration           | Risk Rating |
|-------------------------------|---------------|----------|----------------|--------------------|--------------------|-------------|
| Coastal/Canal Bank Erosion    | Highly Likely | Minor    | Negligible     | More than 24 hrs   | More than 1 week   | 2.2         |
| Dam/Levee Failure             | Unlikely      | Limited  | Negligible     | Less than 6 hrs    | Less than 1 week   | 1.8         |
| Coastal and Inland Flooding   | Highly Likely | Critical | Large          | 6 to 12 hours      | Less than 1 week   | 3.5         |
| Stormwater/Localized Flooding | Highly Likely | Limited  | Small          | 6 to 12 hours      | Less than 24 hours | 2.8         |
| Hurricane & Tropical Storm    | Highly Likely | Critical | Large          | More than 24 hrs   | Less than 1 week   | 3.3         |
| Sea Level Rise                | Likely        | Critical | Moderate       | More than 24 hours | More than 1 week   | 2.9         |



# Coastal & Canal Bank Erosion

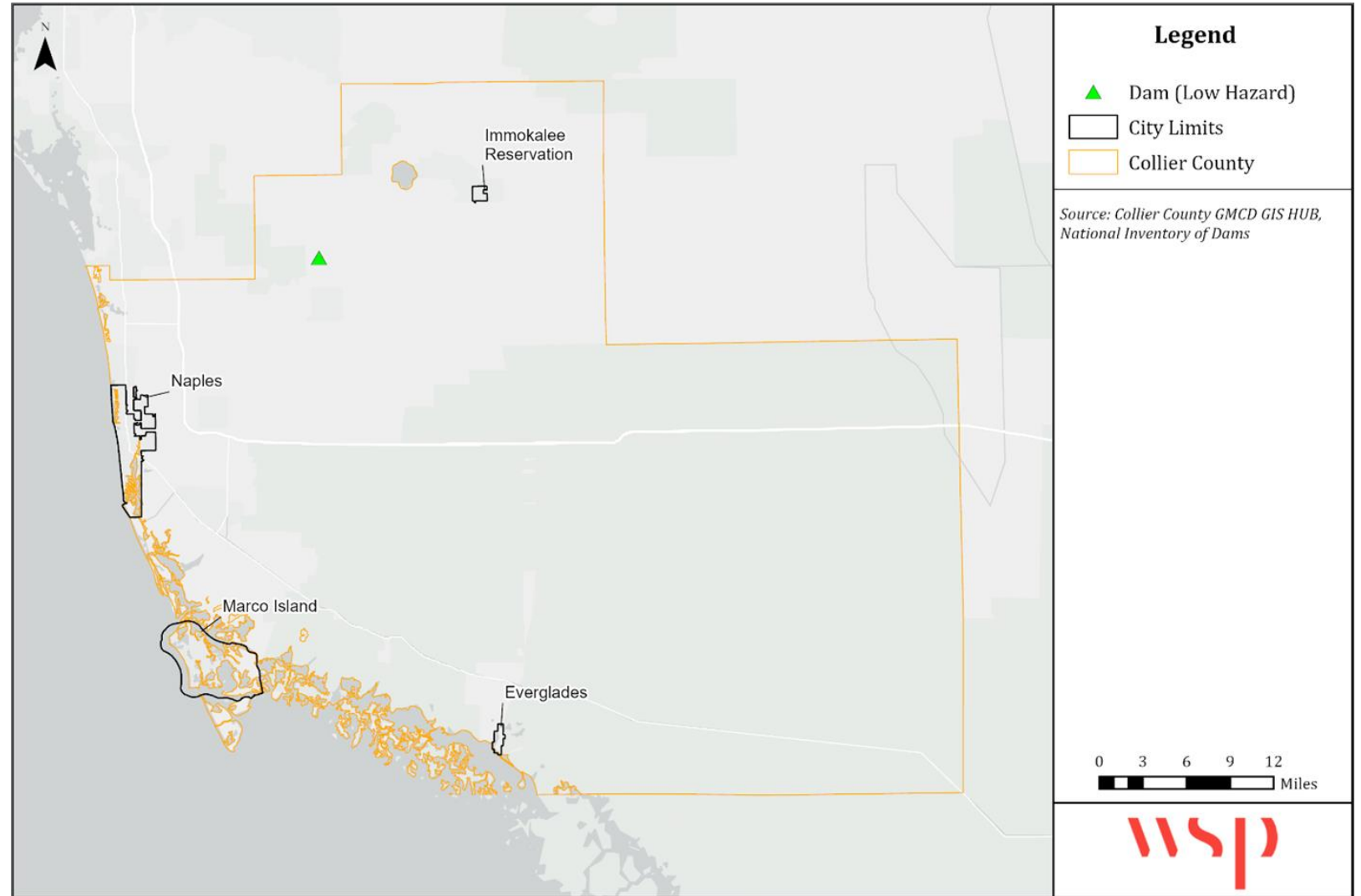
- Erosion is an ongoing process rather than episodic
- It can intensify during storm events, especially hurricane and storm surge
- FDEP Office of Resilience, *Critically Eroded Beaches in Florida, 2024*  
Collier County findings:
  - 9 critically eroded beach areas (15.5 miles)
  - 3 non-critically eroded beach areas (5.1 miles)
  - 1 critically eroded inlet shoreline area (0.8 mile)
- SFWMD identified Golden Gate Canal as a priority (blockage from debris increases flood risk)
- Canal and coastal erosion is expected to occur in the future





# Dam Failure

- One dam in Collier County
  - St. Road 846 Land Trust IMP
  - Low hazard rating
  - No residential properties within a mile
  - Primarily agricultural in surround area
- Inundation area not available to estimate exposure
- No past dam failures in Collier County

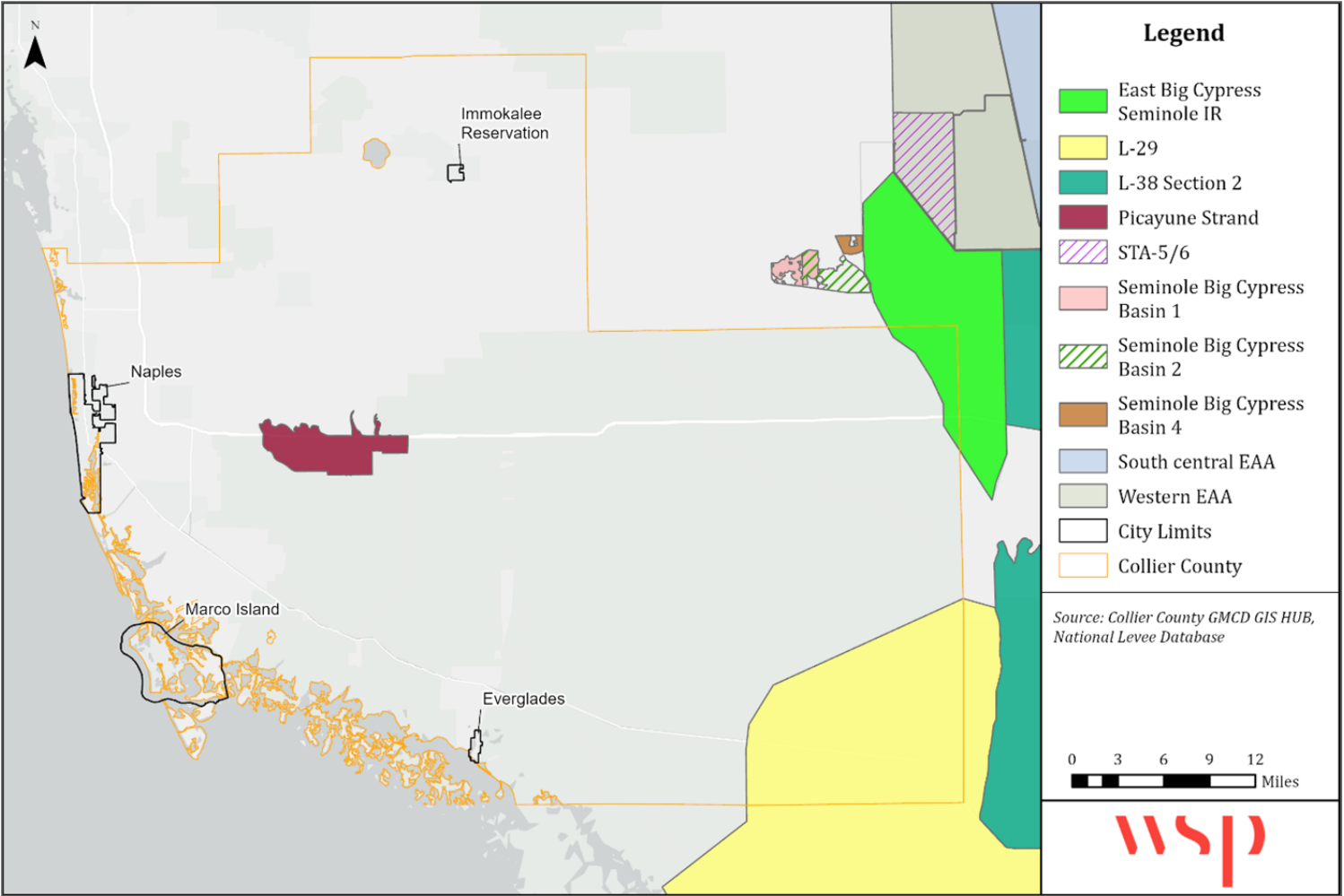




# Levee Failure

- Three levees in Collier County
  - East Big Cypress Seminole IR
  - L-29
  - Picayune Strand
- All three are low risk
- Property exposure within the inundation areas of the three levees:
  - 90 properties totaling approximately \$34 million in combined structure and content value
    - East Big Cypress: 3 properties
    - L-29: 39 properties
    - Picayune Strand: 48 properties
- No past levee failures in Collier County

| Counties                             | System Name                  | Sponsor | Length (mi) | Height (ft) | Risk Class | Last Assessment Date |
|--------------------------------------|------------------------------|---------|-------------|-------------|------------|----------------------|
| Broward, Collier, Hendry             | East Big Cypress Seminole IR | SFWMD   | 26.1        | 6           | Low        | 7/2/2019             |
| Broward, Collier, Miami-Dade, Monroe | L-29                         | SFWMD   | 45.4        | 9           | Low        | 7/7/2016             |
| Collier                              | Picayune Strand              | SFWMD   | 9.4         | 13          | Low        | 9/3/2020             |



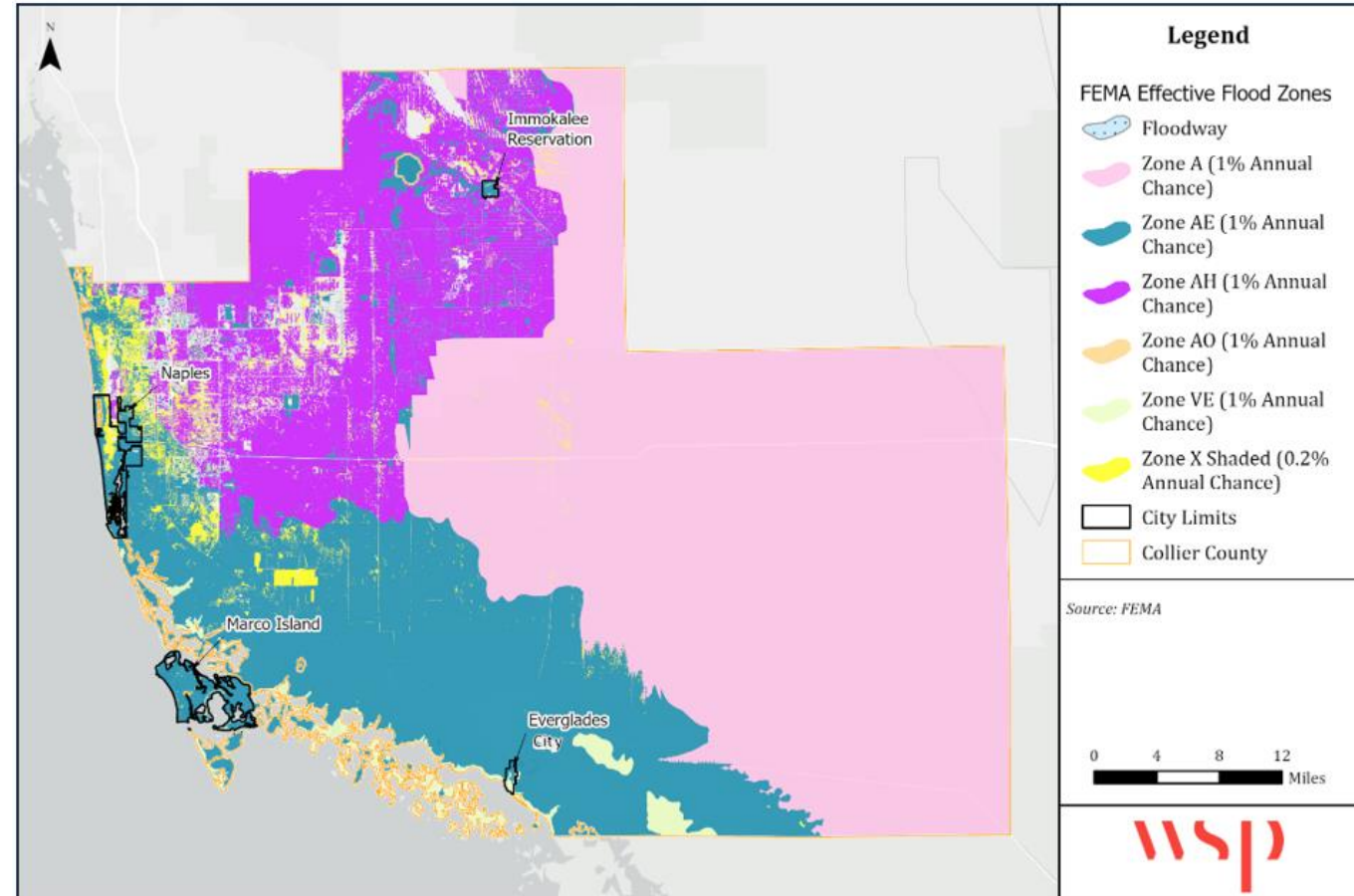
# Coastal and Inland Flooding

Flood Zone Acreage for the Unincorporated County

| Flood Zone                    | Acreage             | Percent of Total (%) |
|-------------------------------|---------------------|----------------------|
| A                             | 631,285.75          | 49%                  |
| AE                            | 315,977.15          | 25%                  |
| AH                            | 246,656.99          | 19.2%                |
| VE                            | 26,153.27           | 2%                   |
| Shaded X (0.2% Annual Chance) | 13,934.03           | 1%                   |
| Unshaded X                    | 52,845.04           | 4%                   |
| <b>Total</b>                  | <b>1,286,952.2</b>  | <b>--</b>            |
| <b>SFHA Total</b>             | <b>1,220,173.16</b> | <b>95%</b>           |

Source: FEMA 2024 Effective FIRM

- From 1995-2025, NCEI reports 58 flood-related events
- Over \$730,000 in property damages

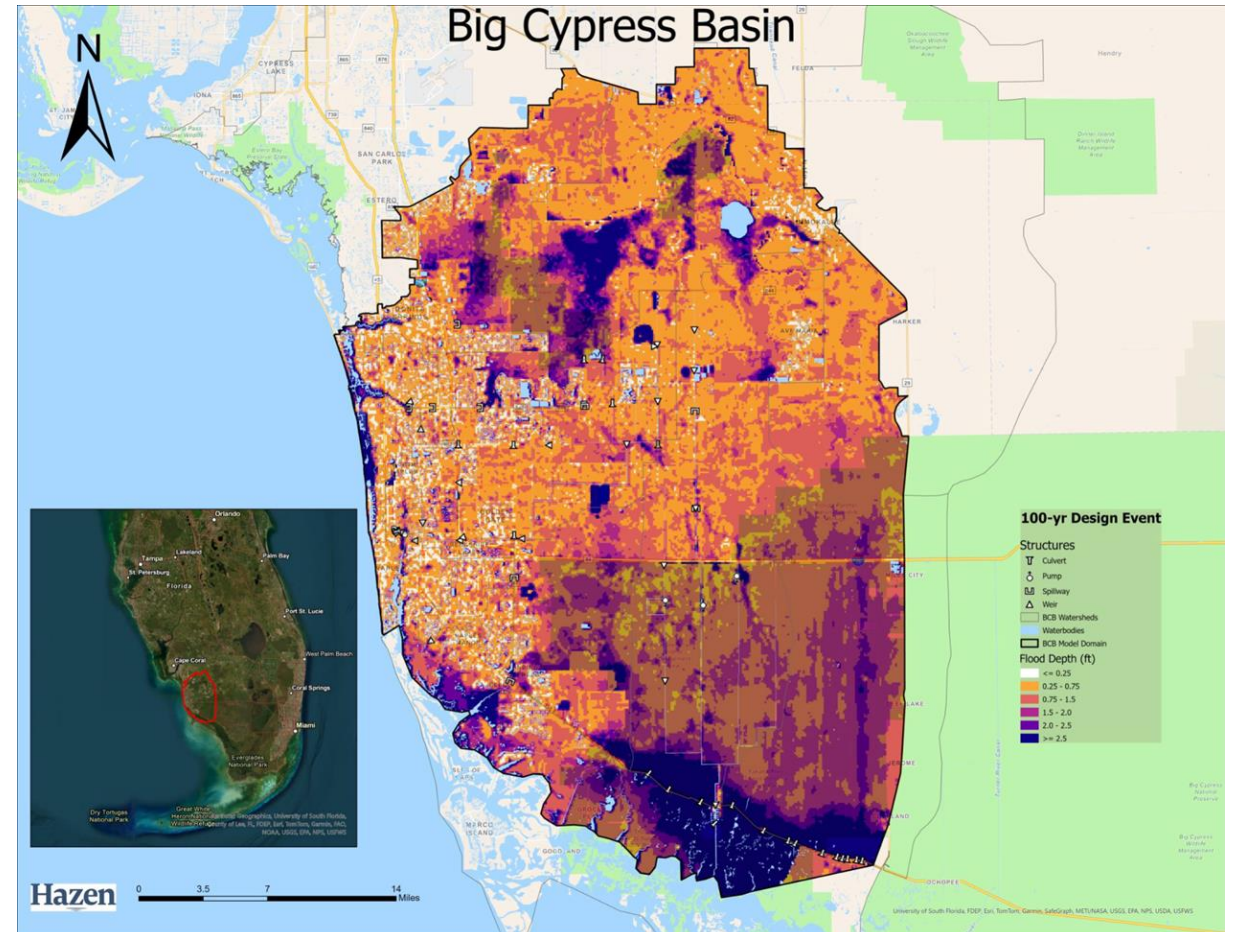


# Coastal and Inland Flooding

Included findings from the SFWMD Big Cypress Basin Model Update report

- Incorporated Performance Metrics (PM) 1 and 5
- PM #1 Maximum Stage in Primary Canals – estimates the highest water levels across four design storms
  - Identifies canals that do not meet flood protection level of service
  - 15 canals do not meet flood protection level of service (not along entire canal - plan indicates specific areas)
- PM #5 Frequency of Flooding – modeled the depth of flooding across four design storms
  - HIRA includes 25-yr and 100-yr analysis

Flood Depth: 100-yr Design Event



Source: Big Cypress Basin Model Update, 2025

# WSP Coastal and Inland Flooding

## Property Exposure by Flood Zone

| Flood Zone                          | Total # Buildings | Building Value          | Estimated Content Value | Total Value              |
|-------------------------------------|-------------------|-------------------------|-------------------------|--------------------------|
| A                                   | 159               | \$30,809,985            | \$25,235,266            | \$56,045,250             |
| AE                                  | 37,724            | \$30,864,099,551        | \$18,133,434,972        | \$48,997,534,523         |
| AH                                  | 39,261            | \$19,997,399,539        | \$10,976,529,647        | \$30,973,929,186         |
| VE                                  | 126               | \$44,863,314            | \$22,914,497            | \$67,777,811             |
| Shaded X (0.2% Annual Chance Flood) | 28,168            | \$20,608,158,382        | \$11,683,096,391        | \$32,291,254,774         |
| Unshaded X                          | 23,439            | \$12,851,240,106        | \$7,326,092,764         | \$20,177,332,870         |
| <b>Total</b>                        | <b>128,877</b>    | <b>\$84,396,570,877</b> | <b>\$48,167,303,537</b> | <b>\$132,563,874,414</b> |
| <b>SFHA Total</b>                   | <b>77,270</b>     | <b>\$50,937,172,389</b> | <b>\$29,158,114,382</b> | <b>\$80,095,286,770</b>  |

Source: Collier County parcel data, 2025; FEMA Effective DFIRM

## Critical Facilities Exposure by Flood Zone

|                          | Flood Zone |            |           |          |            |            |
|--------------------------|------------|------------|-----------|----------|------------|------------|
| FEMA Lifeline            | A          | AE         | AH        | VE       | X SHADED   | X UNSHADED |
| Communications           | 3          | 12         | 6         | 0        | 0          | 3          |
| Energy                   | 0          | 35         | 13        | 1        | 33         | 29         |
| Food, Hydration, Shelter | 0          | 9          | 4         | 0        | 10         | 13         |
| Hazardous Materials      | 4          | 18         | 20        | 0        | 19         | 13         |
| Health and Medical       | 0          | 13         | 2         | 0        | 20         | 8          |
| Safety and Security      | 0          | 14         | 4         | 0        | 15         | 21         |
| Transportation           | 7          | 8          | 2         | 1        | 0          | 1          |
| Water Systems            | 4          | 11         | 11        | 0        | 3          | 12         |
| <b>Total</b>             | <b>18</b>  | <b>120</b> | <b>62</b> | <b>2</b> | <b>100</b> | <b>100</b> |



# Coastal and Inland Flooding

## Estimated Building Damage – 1%-Annual-Chance-Flood

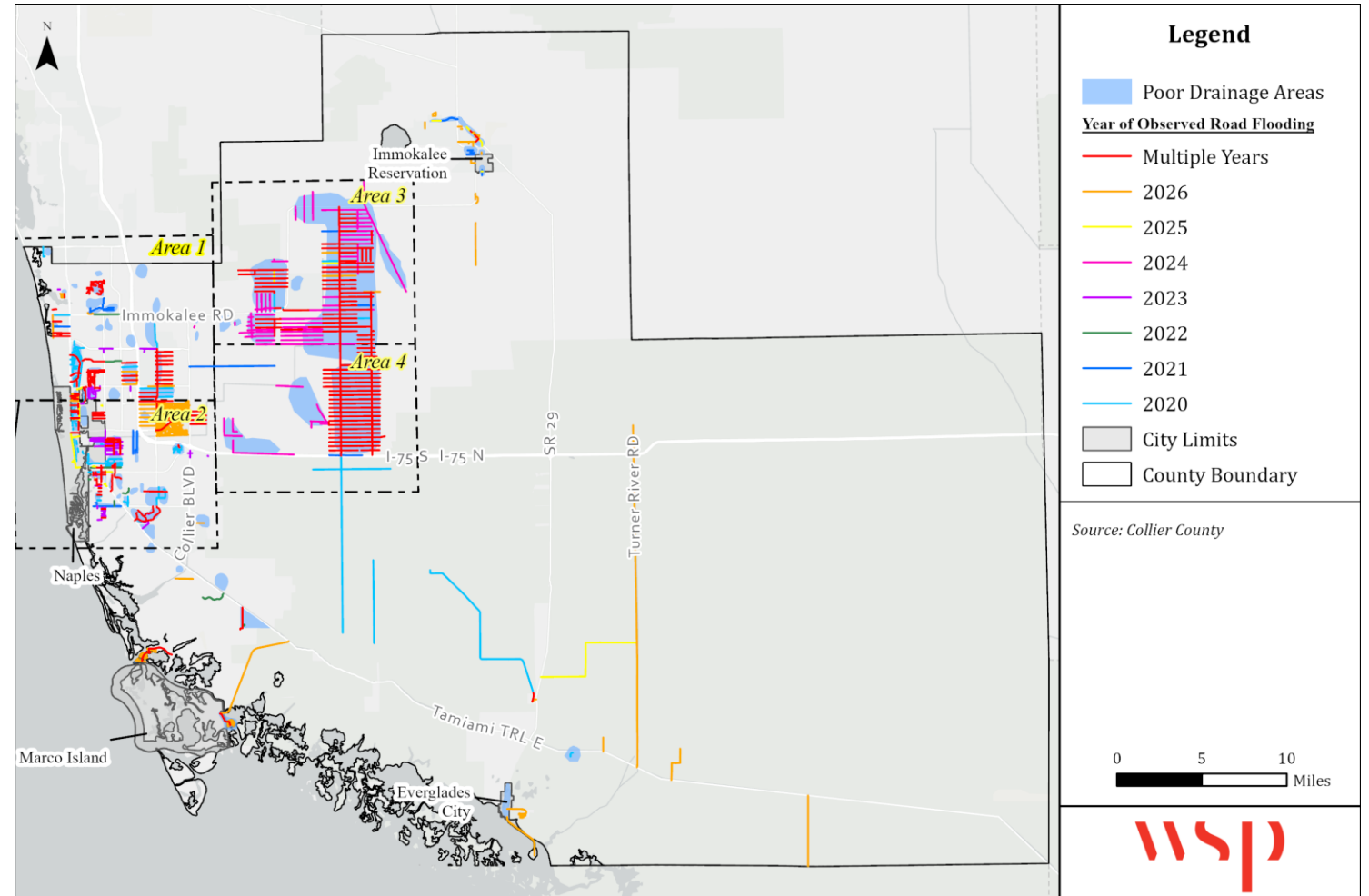
Flood loss estimates developed  
using Hazus FAST tool

| Occupancy Type | Total Parcels<br>with Loss | Total Value (Building<br>& Content) | Estimated Building<br>Loss | Estimated Content<br>Loss  | Estimated Total<br>Damage  | Loss Ratio   |
|----------------|----------------------------|-------------------------------------|----------------------------|----------------------------|----------------------------|--------------|
| Agricultural   | 353                        | \$97,528,964.58                     | \$18,284,130.64            | \$23,325,079.27            | \$41,609,209.92            | 42.7%        |
| Commercial     | 2,205                      | \$6,401,419,161.05                  | \$467,185,218.40           | \$1,524,454,950.81         | \$1,991,640,169.21         | 31.1%        |
| Education      | 142                        | \$964,945,956.72                    | \$22,485,621.75            | \$102,712,258.59           | \$125,197,880.34           | 13.0%        |
| Government     | 34                         | \$255,781,737.01                    | \$20,980,783.49            | \$92,086,937.27            | \$113,067,720.76           | 44.2%        |
| Industrial     | 119                        | \$603,613,253.98                    | \$66,309,505.12            | \$168,286,006.95           | \$234,595,512.08           | 38.9%        |
| Religious      | 108                        | \$427,915,520.57                    | \$18,987,533.77            | \$106,454,264.72           | \$125,441,798.50           | 29.3%        |
| Residential    | 61,703                     | \$51,691,441,562.62                 | \$20,628,297,528.35        | \$10,310,109,743.60        | \$30,938,407,271.96        | 59.9%        |
| <b>Total</b>   | <b>64,664</b>              | <b>\$60,442,646,156.53</b>          | <b>\$21,242,530,321.54</b> | <b>\$12,327,429,241.22</b> | <b>\$33,569,959,562.76</b> | <b>55.5%</b> |

Source: Collier County parcel data, 2025; FEMA Effective DFIRM; Hazus

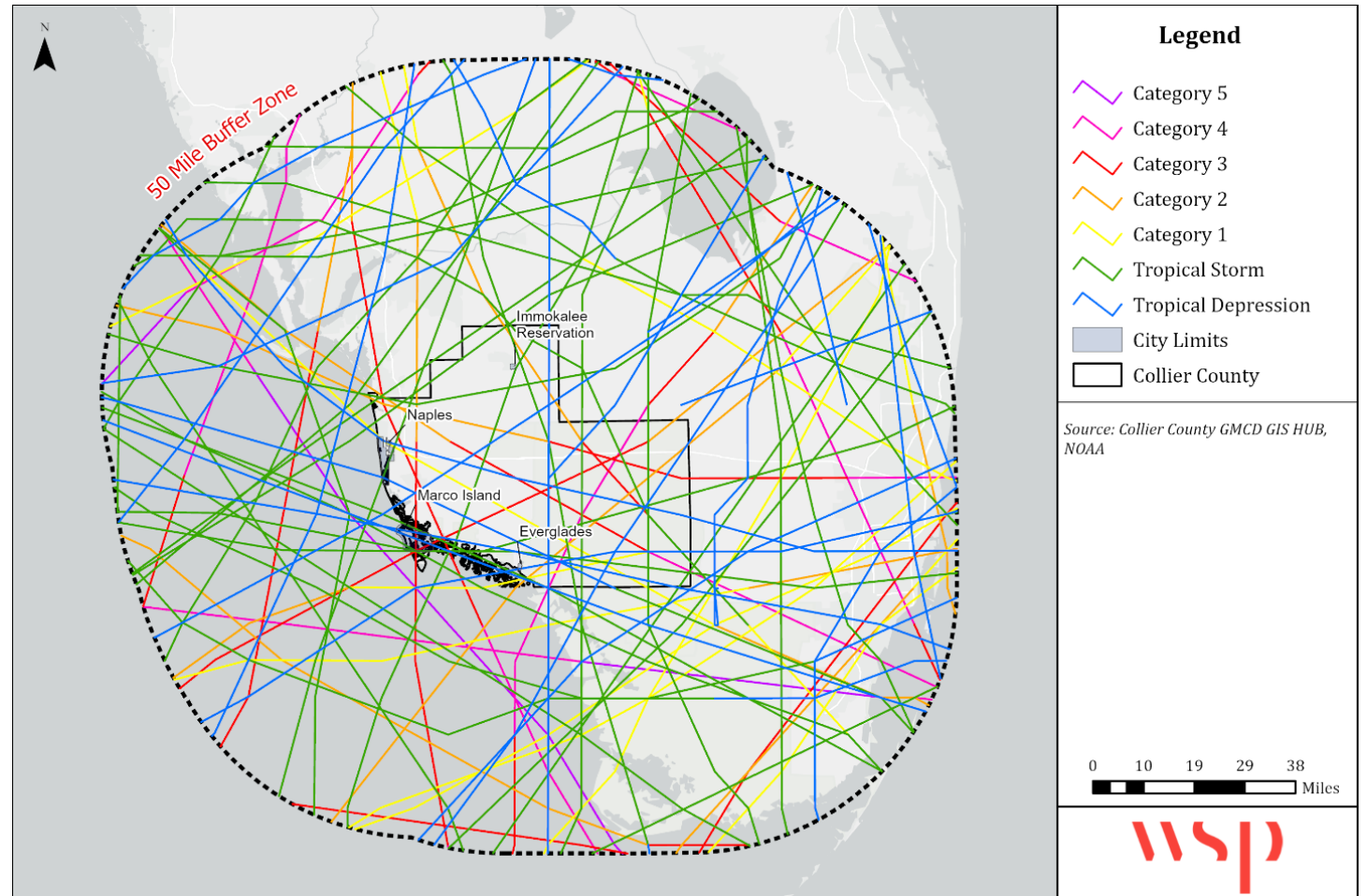
# Stormwater/Localized Flooding

- 85 drainage problem areas
  - Some are being addressed by Public Utility Projects
- NCEI reports 16 flash flooding events
- Chronic problem with smaller spatial extent
  - Low level flooding/ponding issues



# Hurricane & Tropical Storm

- NOAA Historical Hurricane Tracks (1900-2025): 84 within 50-mile buffer
- From 1995-2025, NCEI reports 45 hurricane & tropical storm events causing over \$2.9 billion in property damages and 4 deaths
- Majority of disaster declarations and emergency declarations are hurricanes and tropical storms

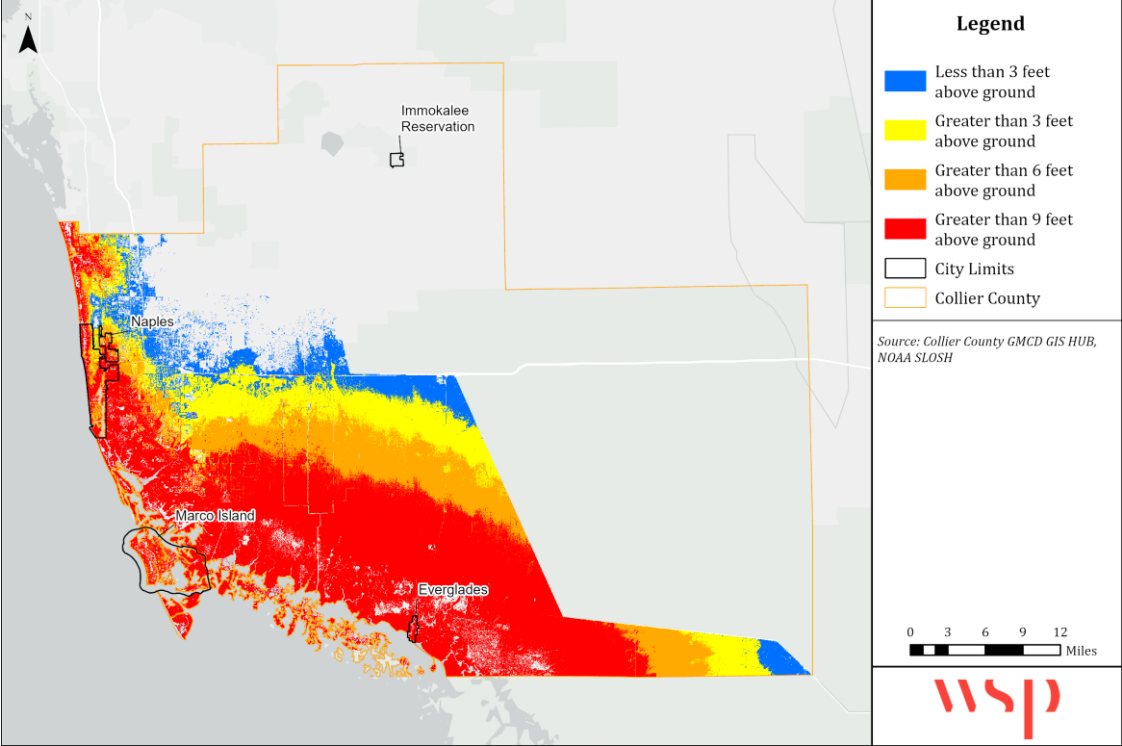




# Hurricane & Tropical Storm

| Occupancy    | Buildings Affected by Storm Surge | Building Value   | Estimated Content Value | Total Value       |
|--------------|-----------------------------------|------------------|-------------------------|-------------------|
| Category 1   |                                   |                  |                         |                   |
| Agricultural | 95                                | \$12,936,304     | \$11,154,766            | \$24,091,071      |
| Commercial   | 1,359                             | \$4,334,493,026  | \$4,334,493,026         | \$8,668,986,052   |
| Education    | 53                                | \$236,552,251    | \$236,552,251           | \$473,104,502     |
| Government   | 19                                | \$116,460,110    | \$116,460,110           | \$232,920,220     |
| Industrial   | 29                                | \$41,948,568     | \$54,688,452            | \$96,637,020      |
| Religious    | 44                                | \$41,754,223     | \$41,227,959            | \$82,982,181      |
| Residential  | 24,156                            | \$21,529,014,798 | \$10,764,507,399        | \$32,293,522,197  |
| Total        | 25,755                            | \$26,313,159,280 | \$15,559,083,963        | \$41,872,243,243  |
| Category 5   |                                   |                  |                         |                   |
| Agricultural | 402                               | \$45,738,799     | \$34,080,209            | \$79,819,008      |
| Commercial   | 4,769                             | \$9,144,756,733  | \$9,144,756,733         | \$18,289,513,465  |
| Education    | 297                               | \$942,469,606    | \$934,684,648           | \$1,877,154,254   |
| Government   | 67                                | \$339,899,002    | \$338,530,448           | \$678,429,450     |
| Industrial   | 340                               | \$360,720,556    | \$430,251,630           | \$790,972,186     |
| Religious    | 186                               | \$392,176,347    | \$388,401,390           | \$780,577,737     |
| Residential  | 111,635                           | \$70,275,352,853 | \$35,137,676,427        | \$105,413,029,280 |
| Total        | 117,696                           | \$81,501,113,897 | \$46,408,381,483        | \$127,909,495,380 |

Source: Collier County parcel data, 2025; NOAA SLOSH



| Facility Type            | Cat 1 | Cat 2 | Cat 3 | Cat 4 | Cat 5 | Not at Risk |
|--------------------------|-------|-------|-------|-------|-------|-------------|
| Communications           | 7     | 10    | 14    | 18    | 19    | 7           |
| Energy                   | 29    | 48    | 73    | 96    | 96    | 29          |
| Food, Hydration, Shelter | 7     | 14    | 21    | 29    | 29    | 7           |
| Hazardous Materials      | 12    | 31    | 41    | 49    | 50    | 12          |
| Health and Medical       | 12    | 28    | 36    | 41    | 41    | 12          |
| Safety and Security      | 14    | 24    | 30    | 44    | 47    | 14          |
| Transportation           | 4     | 6     | 8     | 9     | 9     | 4           |
| Water Systems            | 7     | 12    | 13    | 22    | 22    | 7           |
| Total                    | 92    | 173   | 236   | 308   | 313   | 92          |

Source: SLOSH, FEMA, Collier County FMP Working Group



# Sea Level Rise

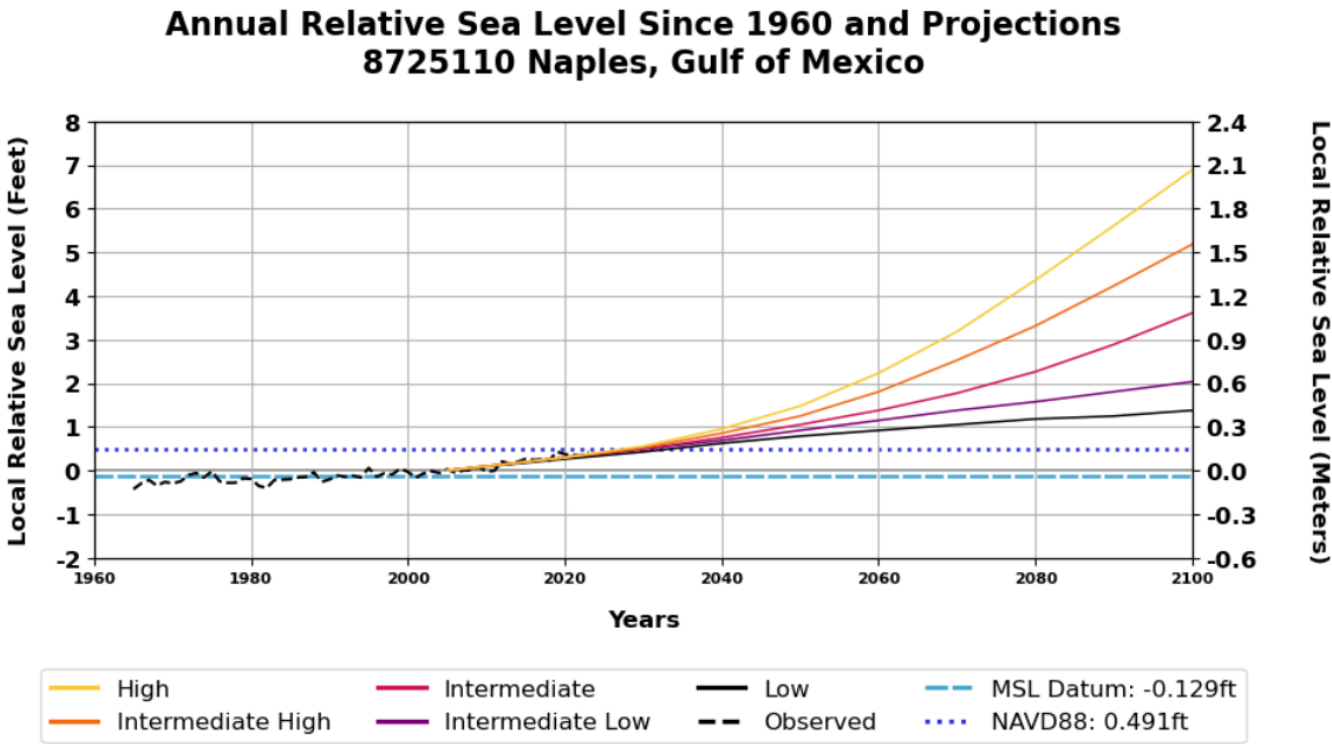
Sea level rise projections for the region, above 2000 mean sea level (MSL) (intermediate):

Short term: by 2040, ~ 0.82 feet above 2000 MSL.

Medium term: by 2060, ~ 1.44 feet above 2000 MSL

Long term: by 2100, ~ 3.67 feet above 2000 MSL

Note: 1 meter = 3.281 feet



Source: NOAA Tides and Currents



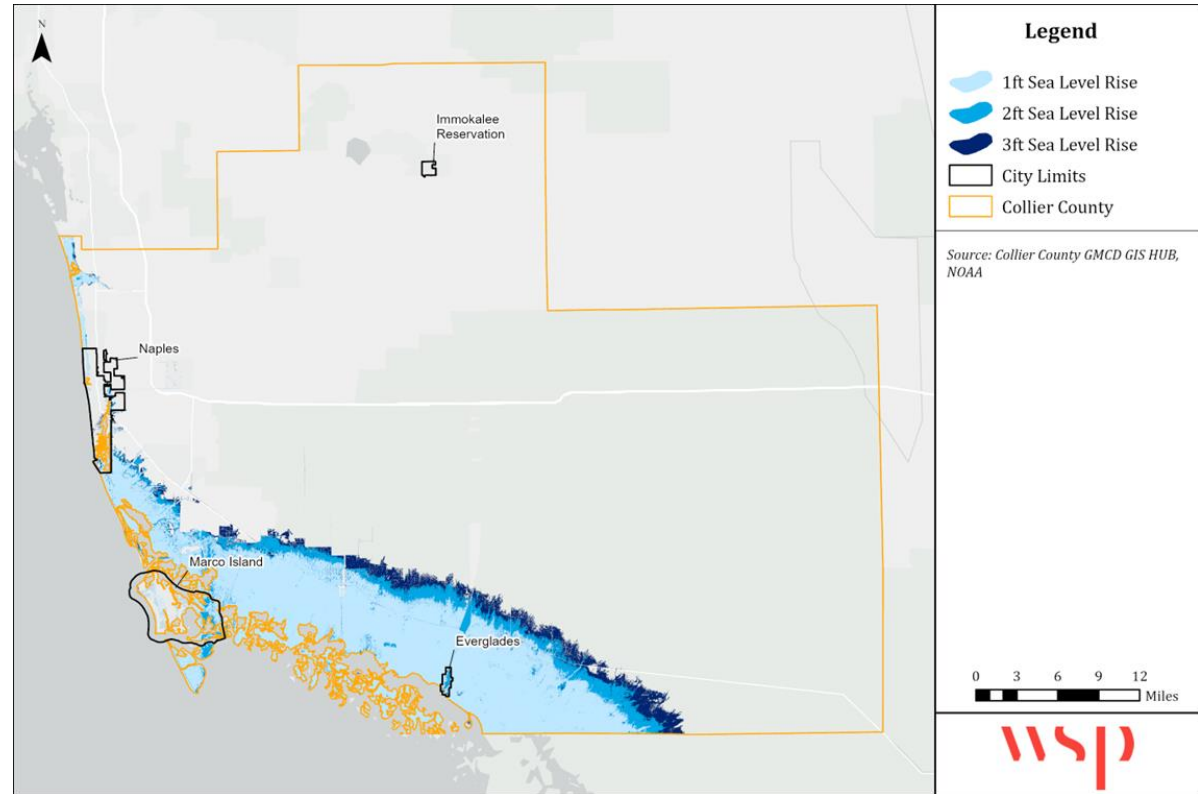
# Sea Level Rise

## Property Exposure to Sea Level Rise

| Occupancy         | Estimated Parcel Count | Structure Value        | Estimated Content Value | Total Value            |
|-------------------|------------------------|------------------------|-------------------------|------------------------|
| <b>1-Foot SLR</b> | <b>345</b>             | <b>\$413,698,312</b>   | <b>\$237,788,891</b>    | <b>\$651,487,204</b>   |
| Commercial        | 37                     | \$61,734,010           | \$61,734,010            | \$123,468,019          |
| Government        | 1                      | \$145,460              | \$145,460               | \$290,920              |
| Residential       | 307                    | \$351,818,843          | \$175,909,421           | \$527,728,264          |
| <b>2-Foot SLR</b> | <b>804</b>             | <b>\$694,479,790</b>   | <b>\$383,619,469</b>    | <b>\$1,078,099,260</b> |
| Commercial        | 54                     | \$72,613,688           | \$72,613,688            | \$145,227,377          |
| Government        | 1                      | \$145,460              | \$145,460               | \$290,920              |
| Residential       | 749                    | \$621,720,642          | \$310,860,321           | \$932,580,963          |
| <b>3-Foot SLR</b> | <b>2,121</b>           | <b>\$1,528,074,455</b> | <b>\$865,562,276</b>    | <b>\$2,393,636,731</b> |
| Agriculture       | 1                      | \$40,649               | \$20,324                | \$60,973               |
| Commercial        | 109                    | \$177,335,483.9        | \$177,335,483.9         | \$354,670,968          |
| Government        | 3                      | \$166,338              | \$166,338               | \$332,676              |
| Industrial        | 1                      | \$12,690,359           | \$19,035,539            | \$31,725,898           |
| Religious         | 2                      | \$231,500              | \$199,528               | \$431,028              |
| Residential       | 2,005                  | \$1,337,610,126        | \$668,805,062.8         | \$2,006,415,188        |

Source: NOAA; Collier County Property Appraiser Parcel Data, 2025-2026

Note: each SLR category is cumulative





# SURVEY UPDATE

# Survey Update

16 responses so far

- 63% of respondents have been impacted by flooding
  - Impacted by Hurricanes Irma, Ian, Milton, Helene (66% of answers mentioned these storms)
  - Flooding from summer of 2024
  - Slow drainage causing road flooding
- 63% are somewhat concerned about flooding, 31% very concerned
- 56% have flood insurance
- 60% have not taken any actions to protect their homes
- Measures taken by those that have implemented protections:
  - Maintain driveway culvert
  - High impact windows and doors
  - Elevate home higher than minimum code
  - Sandbags
- Best way to reach residents: email, public workshops, mail, county website

Collier County, FL Floodplain  
Management Plan Public Survey



**Another survey push!**

# NEXT STEPS





# Project Schedule

March

**Project Kickoff Meetings**  
Working Group & Public Meetings

August

**Meeting 2**  
FMP Risk Assessment Review

September

**Meeting 3**  
FMP Capability & Mitigation Strategy

September

**Draft Plan Review Meetings**  
Working Group & Public Meetings

October

**Final Plan**



# Next Steps

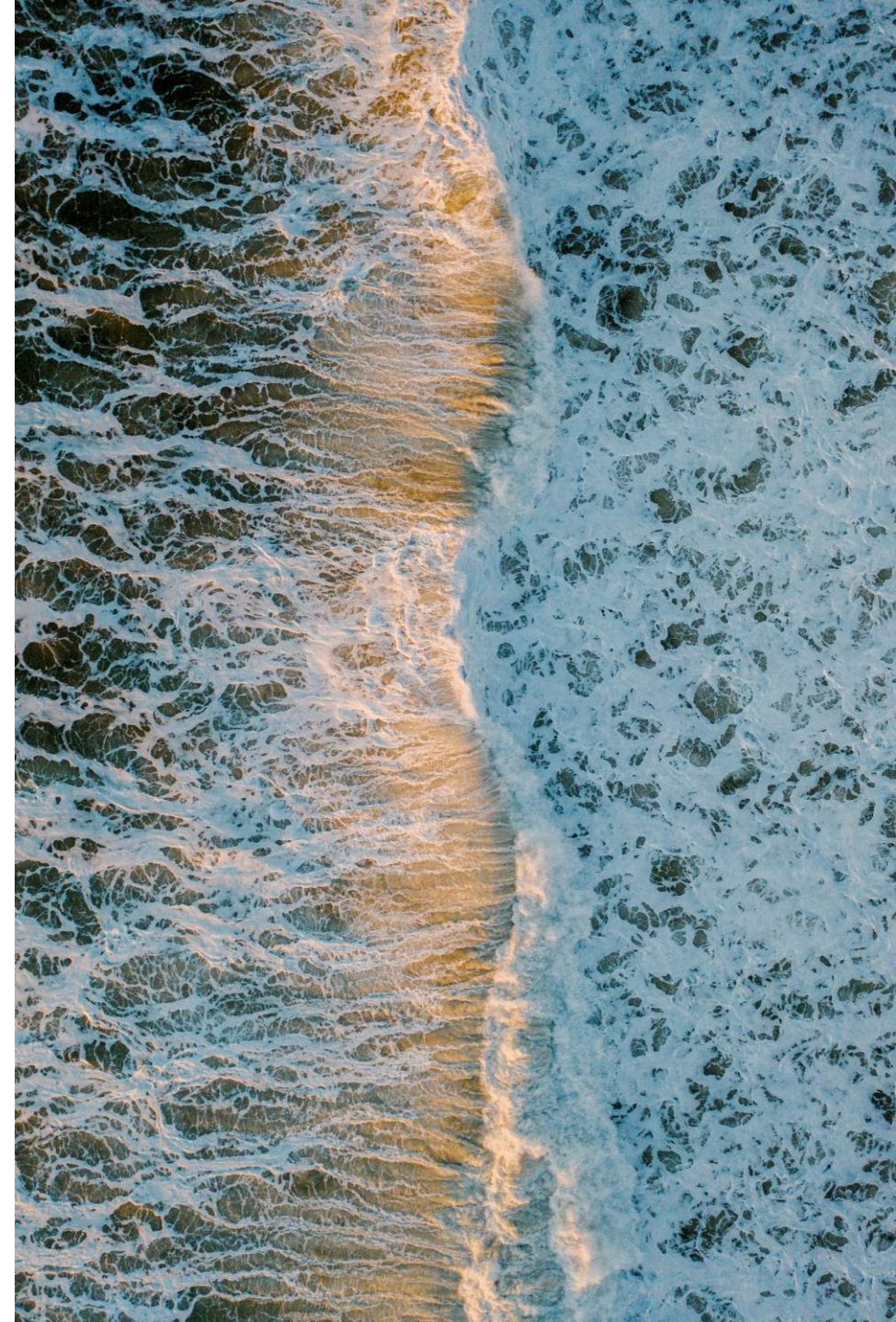
## **WSP team action item:**

- WSP team will share draft HIRA and presentation and minutes for your review
- Schedule third Working Group meeting

## **Requests for FMPWG input:**

- Share the public survey link/QR code
- Review draft HIRA once made available

**[www.CollierCountyFL-FMP.com](http://www.CollierCountyFL-FMP.com)**





THANK  
YOU

