

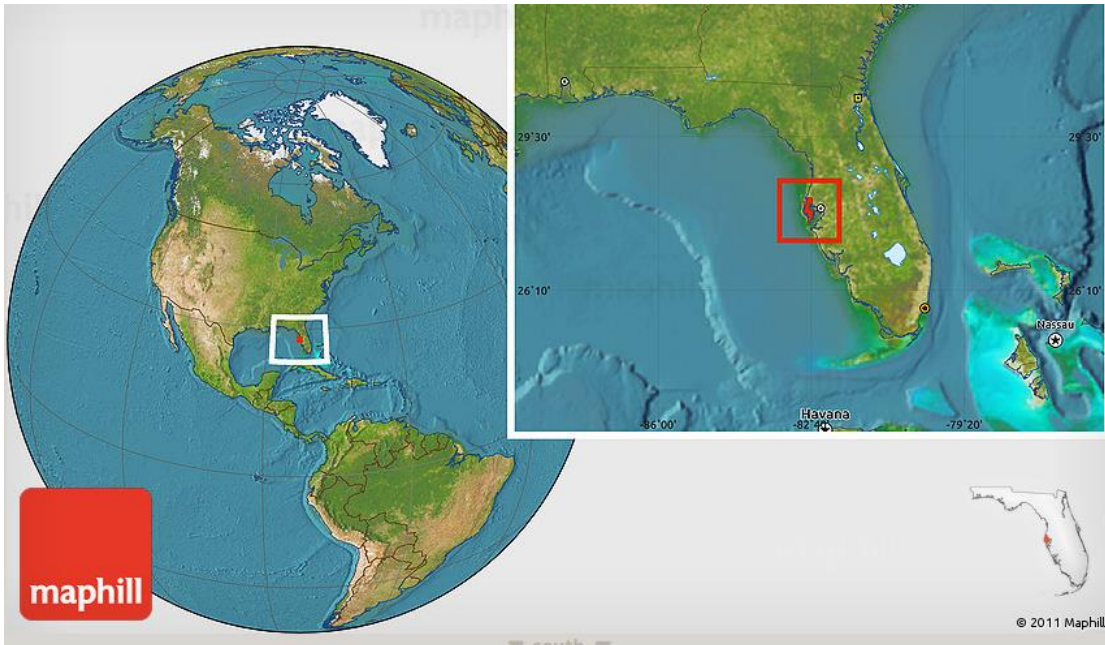


The Road to CRS Class 2

Maxine Moore, CFM
Floodplain Technician
MMoore@pinellas.gov

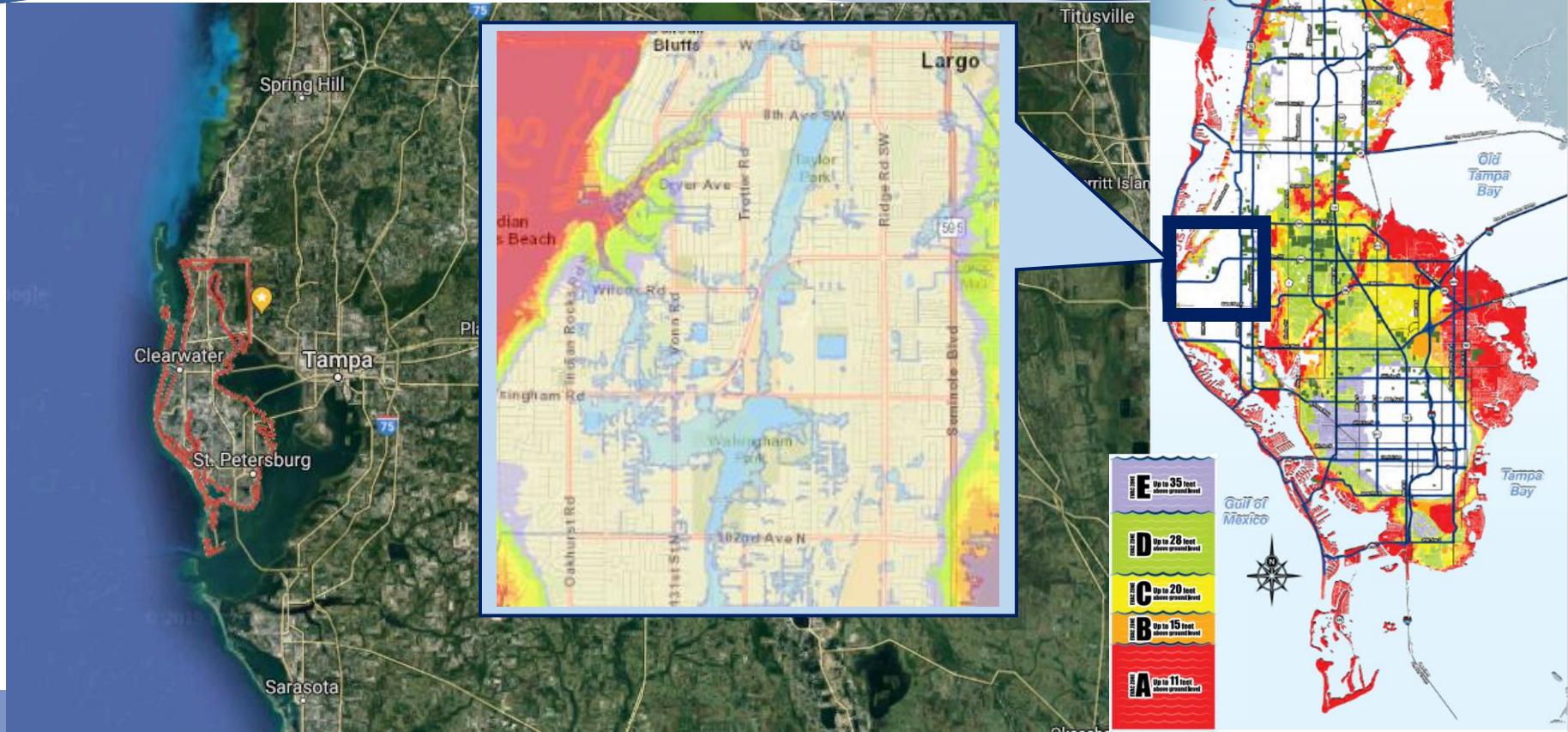
Thursday, November 30, 2023

Pinellas County, FL



- Population: ~ 962K (2022)
- 2nd Smallest county in size
- Most densely populated county in Florida
 - ~ 3,425 people per square mile
- 280 square miles
- 588 miles of coastline
 - 35 miles of beaches
- 24 Municipalities

Pinellas County, FL





Types of Flood Risk



Riverine



Surface / Localized

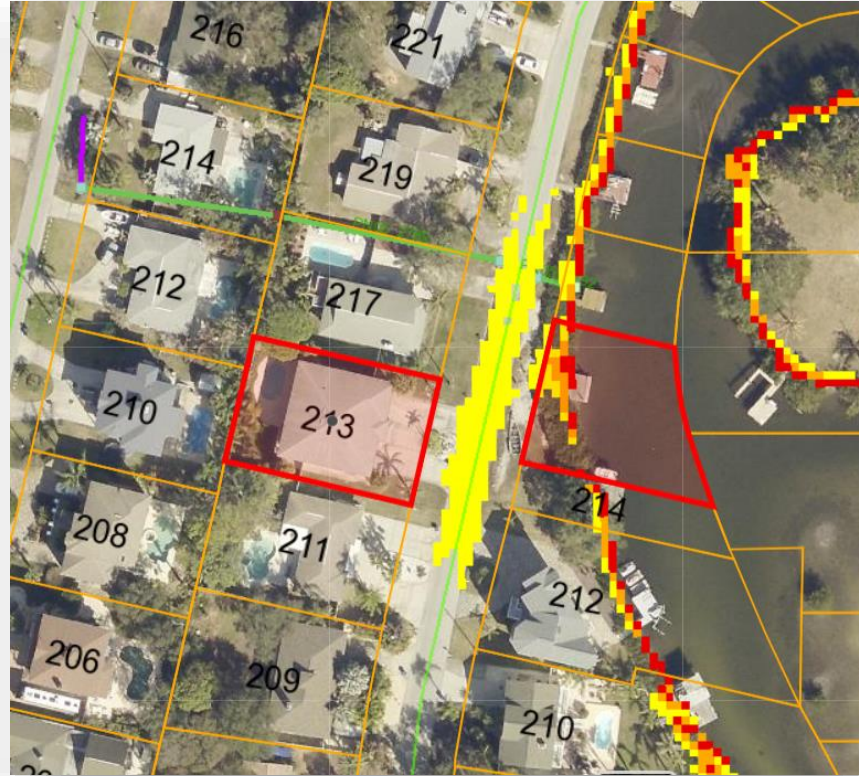


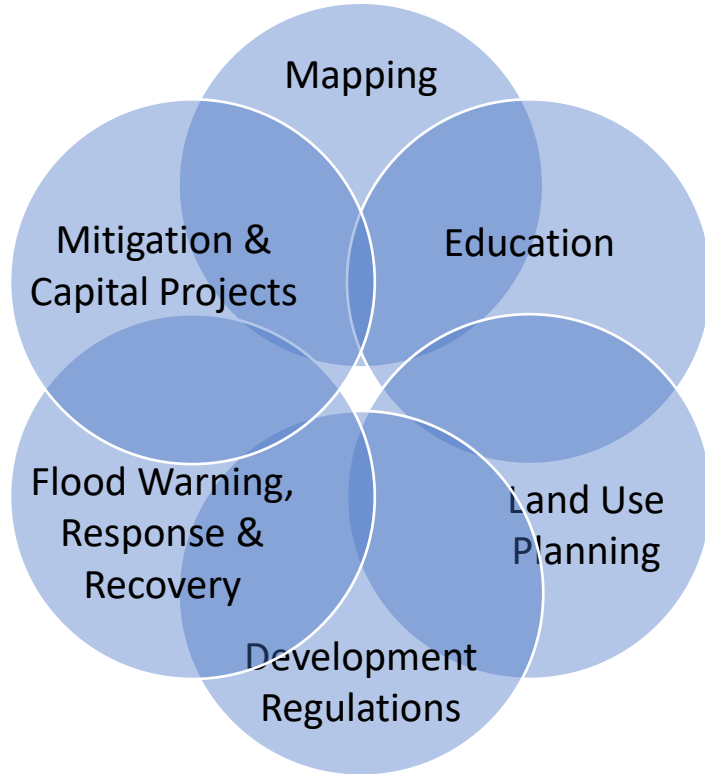
Coastal

- Storm Surge
- Blue Sky

Blue Sky Flooding

*Even when it doesn't rain,
it can still flood.*





Comprehensive Floodplain Management Program

- **Flood Protection Level of Service**
- **Resiliency**
- **Federal Program Participation**
 - Flood Insurance
 - Disaster Assistance
 - Flood Insurance Discounts

Federal Program Participation

Federal Emergency Management Agency (FEMA)



National Flood Insurance Program (NFIP)

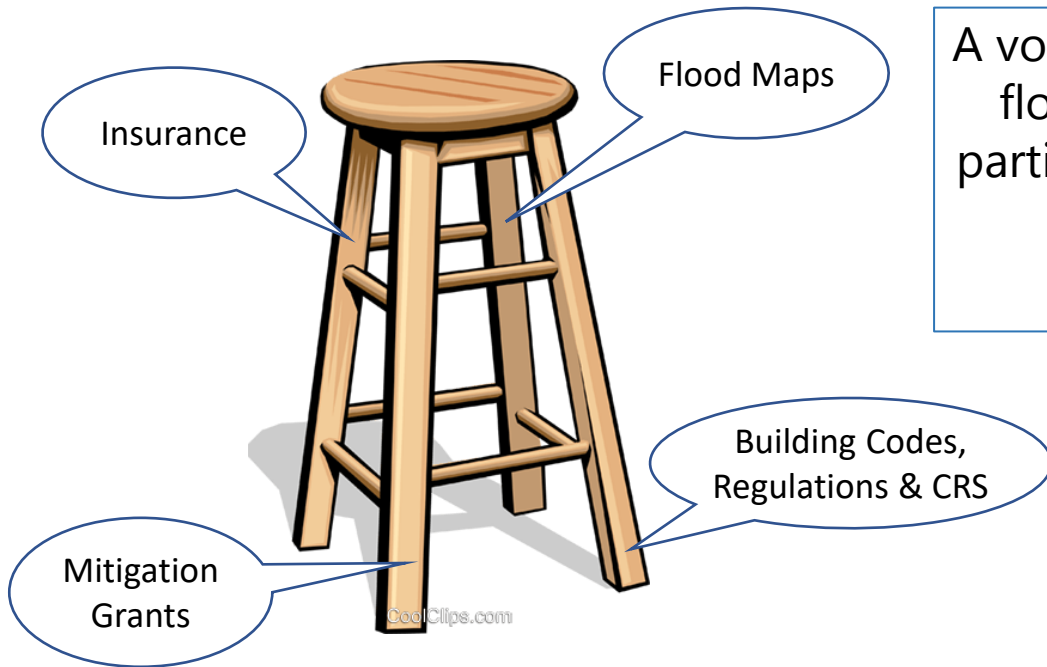
Maps and regulatory basis for local floodplain management



Community Rating System (CRS)

Incentive to go above and beyond NFIP minimum requirements

National Flood Insurance Program (NFIP)



A voluntary federal program that provides flood insurance to property owners in participating communities that adopt and enforce floodplain management regulations.

"Each leg represents a critical part of the balance of success."
- FEMA

Community Rating System

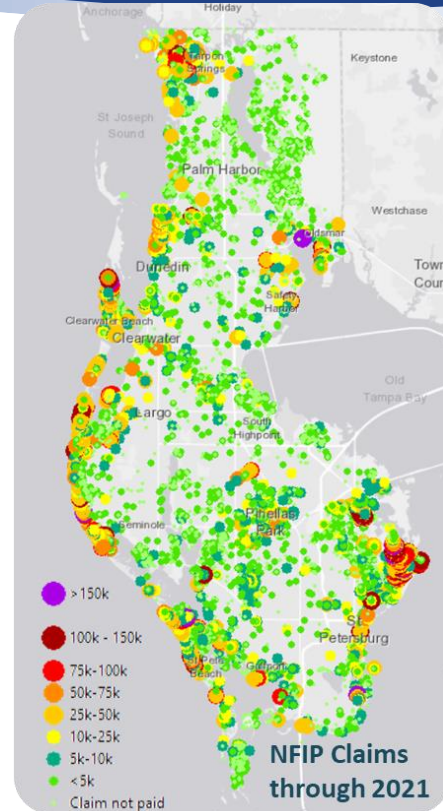
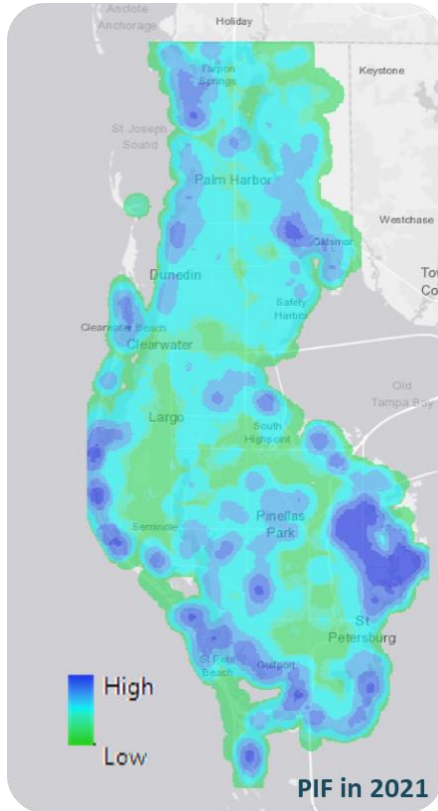


%
30 10 40 15

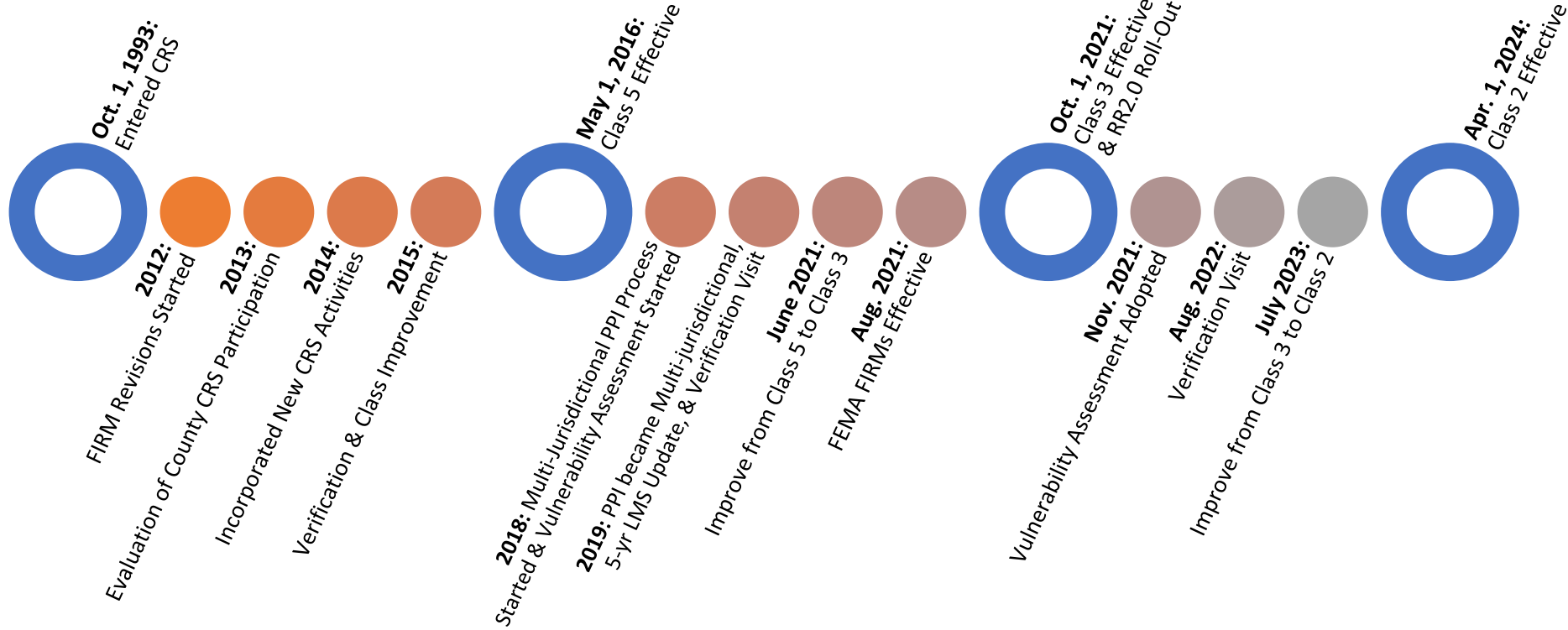
FLOOD INSURANCE DISCOUNT



County NFIP Policies & Claims



CRS Timeline



CRS Class 2 Letter



U.S. Department of Homeland Security
500 C Street, SW
Washington, DC 20472


July 6, 2023

Mr. Barry Burton
Pinellas County Administrator
315 Court Street
Clearwater, Florida 33756

Dear Mr. Burton:

The purpose of this letter is to provide you with the results of the National Flood Insurance Program (NFIP) Community Rating System (CRS) field verification findings based on your 3-year cycle verification. The field verification report is enclosed for your records.

Congratulations! The Department of Homeland Security, Federal Emergency Management Agency (FEMA), has determined that Pinellas County will increase to a Class 2 in the NFIP CRS. The floodplain management activities implemented by your community qualify it for a 40 percent discount on flood insurance premiums for most NFIP policies issued or renewed on or after April 1, 2024. This savings is a tangible result of the flood mitigation activities your community implements to protect lives and reduce property damage.

The CRS rating for your community will automatically be renewed annually as long as there are no NFIP non-compliance actions, so a notification letter will not be sent every year. This annual renewal will take place as long as your community continues to implement the CRS activities you certify in your annual recertification documentation. If no additional modifications or new CRS activities are added, the next verification visit for your community will be in accordance with its established 3-year cycle. In the interim, FEMA will periodically send the NFIP/CRS Update newsletter and other notices to your CRS Coordinator to keep your community informed.

I commend you on your community actions and your determination to lead your community to be more disaster resistant. This commitment enhances public safety, property protection, and protects the natural functions of floodplains, and reduces flood insurance premiums.

If you have any questions or need additional information, please contact the FEMA Region IV Office, CRS Coordinator Roy McClure at (770) 220-8835.

Sincerely,


William H. Lesser, CRS Coordinator
Federal Insurance and Mitigation Administration

Enclosure
cc: Mrs. Lisa Foster, CRS Coordinator



COMMUNITY
RATING
SYSTEM

VERIFICATION
REPORT

Pinellas County, FL

NFIP Number: 125139

Date of Verification Visit: August 23, 2022

Verified Class 2

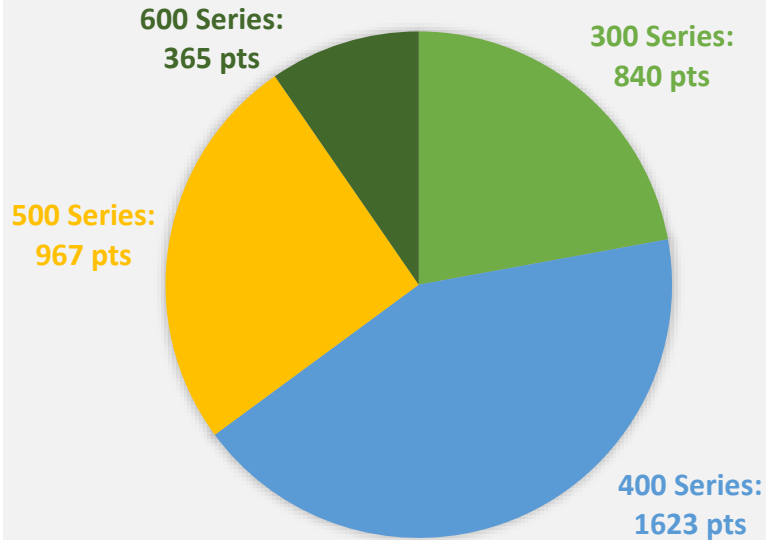
Cycle

This Verification Report is provided to explain the recommendations of Insurance Services Office, Inc. (ISO) to DHS/FEMA concerning credits under the Community Rating System (CRS) for the above named community.

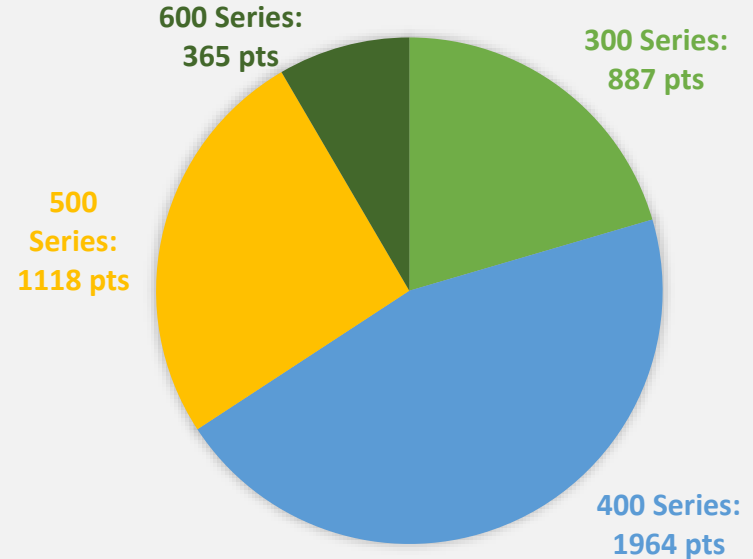
A total of 4334 credit points are verified which results in a recommendation that the community improve from a CRS Class 3 to a CRS Class 2. The community has met all Class 2 prerequisites. Please see Attachment A, Class 2 prerequisite information at the end of this report. The following is a summary of our findings with the total CRS credit points for each activity listed in parenthesis:

CRS Points Comparison

2019 Verification (Class 3)

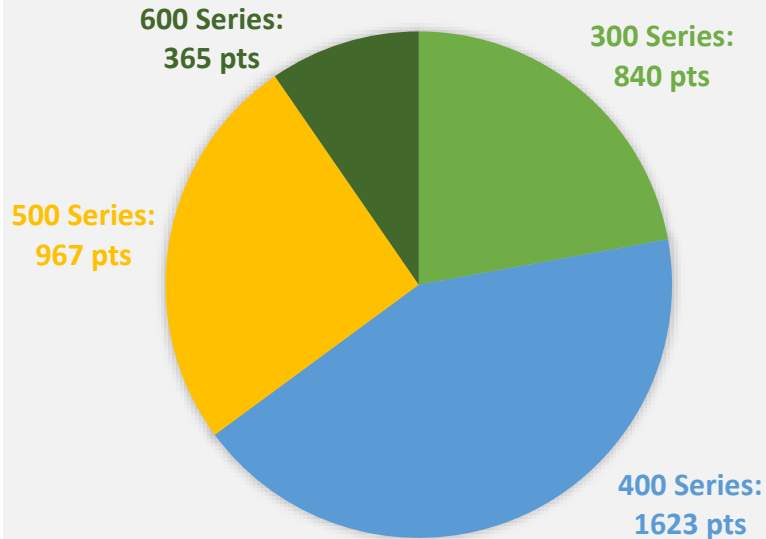


2022 Verification (Class 2)

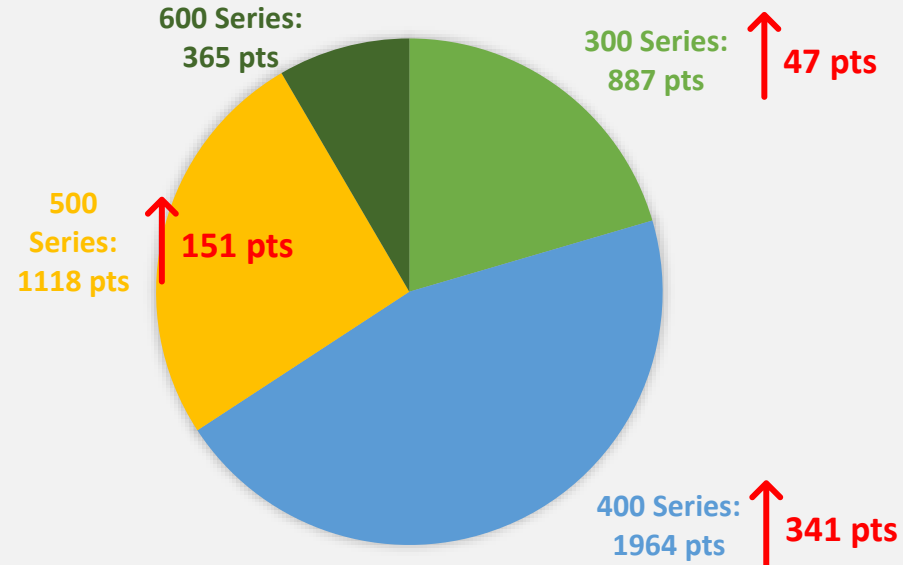


CRS Points By Series Comparison

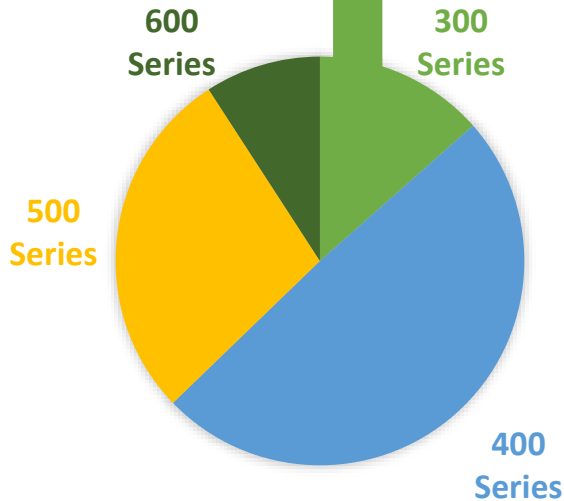
2019 Verification (Class 3)



2022 Verification (Class 2)

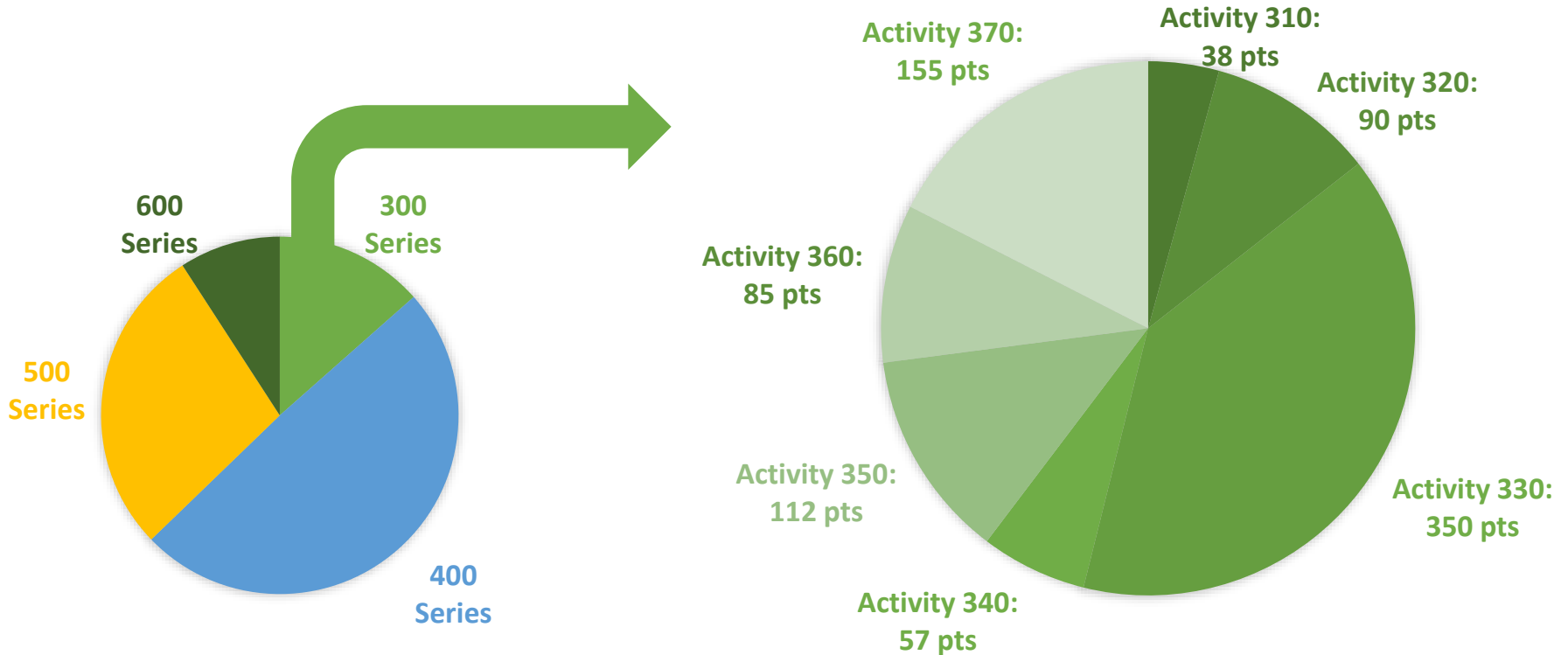


Flood Damage Reduction Activities (300 Series)



- Construction Certificates
- Pinellas County Flood Map Service
- Education and Outreach (FRMPIWG)
- Hazard Disclosure for Real Estate Professionals
- Floodplain-related publications available at the Public Library Cooperative
- Flood Information on County Website
- Providing on-on-one property protection advice
- Flood insurance assistance

Flood Damage Reduction Activities (300 Series)



300 Series Activities



U.S. DEPARTMENT OF HOMELAND SECURITY
Federal Emergency Management Agency
National Flood Insurance Program

- Flood Information
- Safety Tips: Before, During and After a Flood
- Substantial Damage and Substantial Improvement
- Floodplain Protection
- Terrapin Woods
- Property Protection
- Flood Information Frequently Asked Questions
- Program for Public Information
- Flood Insurance
- Community Rating System
- Technical Assistance
- Mariners Cove
- Real Estate Flood Disclosure Program
- Construction in a Floodplain
- Flood Resources, Publications and Contacts
- Flood Maps & Zones
- Flood Warning System / Notifications
- Flood Elevation Certificate
- Flood Mitigation

Flood Information



In Pinellas County, flooding and other drainage problems can result after several inches of rain in a short period of time or after several days of continued rain. Hurricanes, tropical storms and other threatening weather can present flood hazards to residents due to high tides, storm surges caused by winds and heavy rainfall.

Flood zones are not the same as evacuation routes for assessing a property's flood risk, which includes tropical storms and hurricanes. Evacuation routes are determined by the vulnerability to storm surge from a hurricane, which may be high, moderate or low risk.

- Find your flood zone
- Find your evacuation zone

Flood Insurance Discount
By providing the flood services mentioned in this brochure and participating in the National Flood Insurance Program Community Rating System (CRS), County are eligible for a discount on their flood insurance premiums.

Unincorporated residents and businesses may receive up to a 25 percent premium discount, which is a cumulative savings of more than \$5.5 million a year for policyholders. Discounts vary by municipality, so check with your flood insurance agent to make sure your flood insurance policy is rated correctly and you are receiving the correct CRS discount.

With your continued support, there is an opportunity to save even more in the future. For more information [visit www.pinellascounty.org/flooding](http://www.pinellascounty.org/flooding) or contact the Flood Information Services at (727) 464-7700. Go to www.floodsmart.gov or call toll-free (888) 379-9531 for more flooding resources.

ADDRESS OR PARCEL ID: _____ DATE: _____

This property is in a Special Flood Hazard Area (SFHA), which is a high-risk area. Flood insurance is required for all mortgages from a federal lender.

Know Your Flood Risk
Before Buying or Building
in Pinellas County



Welcome to the Pinellas County Flood Map Service

ELEVATION CERTIFICATE

IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON PAGES 9-19

Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.

SECTION A – PROPERTY INFORMATION	FOR INSURANCE COMPANY USE
A1. Building Owner's Name: _____	Policy Number: _____
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.: _____	Company NAIC Number: _____
City: _____ State: _____ ZIP Code: _____	
A3. Property Description (e.g., Lot and Block Numbers or Legal Description) and/or Tax Parcel Number: _____	
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.): _____	
A5. Latitude/Longitude: Lat. _____ Long. _____ Horizontal Datum: <input type="checkbox"/> NAD 1927 <input type="checkbox"/> NAD 1983 <input type="checkbox"/> WGS 84	
A6. Attach at least two and when possible four clear photographs (one for each side) of the building (see Form pages 7 and 8).	



Flood Insurance Assistance




Dear Mrs. Foster:

I am pleased to serve on the Pinellas County Program for Public Information (PPI) and Flood Insurance Plan Committees. I will take part in three meetings per year to help the County develop, implement, and evaluate outreach projects and initiatives. I am also pleased to participate in the Pinellas County Flood Insurance Advocate Service to advise people in Pinellas County and its municipalities who have questions about flood insurance. I understand that Pinellas County Flood Insurance Advocate contact information will be made available to the public on the Pinellas County Flood Information website. I agree to respond to inquiries that I receive about flood insurance via phone, email, and in person and maintain records of this service.

Sincerely,

Ashley Tharp

Ashley Tharp AIS, AINS, ANFI, CFM 

Corporate Agent Training Manager

800-820-3242 x 5510

Ashley.Tharp@weareflood.com

Date	Contact	Address or Parcel (if provided)	Jurisdiction (City name or uninc)	Topics/Info	Referred by (Estate Tra
12/31/2019	Insured	845 180th Ave E	Redington Shores	Flood policy	website
3/5/2020	Insured	Manatee Co	Manatee Co	Rating info/map changes	CeCe
3/6/2020	Community (Noah)	City of St. Petersburg	City of St. Petersburg	Rating info/EC needed	Lisa Foster
4/29/2020	realtor	Maderia Beach	Maderia Beach	Flood Insurance Requirement for unit owners	real estat
5/4/2020	Insured	Lions Club Beach House	Treasure Island	Rating info/policy review - COVID 19 FEMA guidance	Lions club Member
5/19/2020	Insured	1545 Citrine Trl	Tarpon Springs	quote	website
5/28/2020	Insured	150 Annwood Rd	Palm Harbor	Flood zone risk factors	website
6/17/2020	community (LisaF)	Pinellas co	Pinellas county	Newly Mapped rating/handling	website
7/13/2020	Insured	Lions Club Beach House	Treasure Island	rating/policy information -	Lions club Member
8/5/2020	community (LisaF)	Pinellas co	Pinellas county	CBRA insurance	website
8/28/2020	Insured	923 Ivanhoe Way S	St. Petersburg	Cost of flood insurance	Lisa Foster
12/2/2020	Insured (Hollis)	847 180th Ave	Redington Shores	Claim handling	Lisa Foster
12/17/2020	Community (Lisa)	Pinellas co	Pinellas county	Claim handling	Lisa Foster
12/17/2020	Community (Lisa)	Pinellas co	Pinellas county	Rep Loss/Claim Handling	Lisa Foster
12/19/2020	Brian Murray	14033 E Parsley Dr	Maderia Beach	Claim handling	Lisa Foster
12/21/2020	Anna	Maderia Beach	Maderia Beach	Claim handling	website
1/4/2021	Brian Murray	14033 E Parsley Dr	Maderia Beach	Claim handling	Lisa Foster

The flood insurance providers on the [Pinellas County Program for Public Information \(PPI\)](#). Committee serve as insurance advocates to the County to advise people who have questions about flood insurance. The following PPI volunteers are prepared to answer questions you may have about flood insurance and the National Flood Insurance Program (NFIP). There is no charge for this service.

- **Harr & Associates Insurance, Inc.**

- **Kimberly Harr**
(727) 393-9146 – Kim@harrins.com

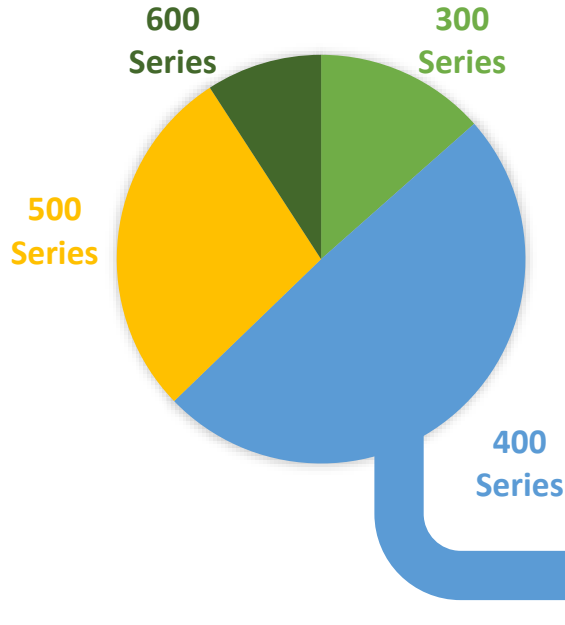
- **Insurance Resources, LLC**

- **Brian T. Ford, CPCU, CIC, MBA, ARM**
(727) 345-0242 – BFord@InsuranceResources.com

- **Wright Flood**

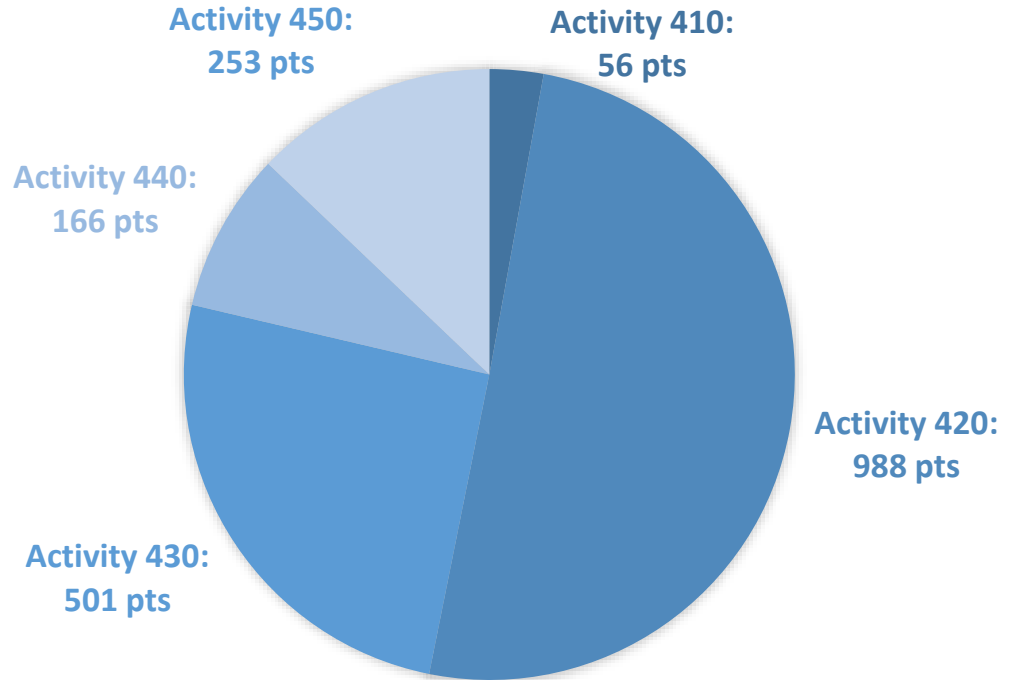
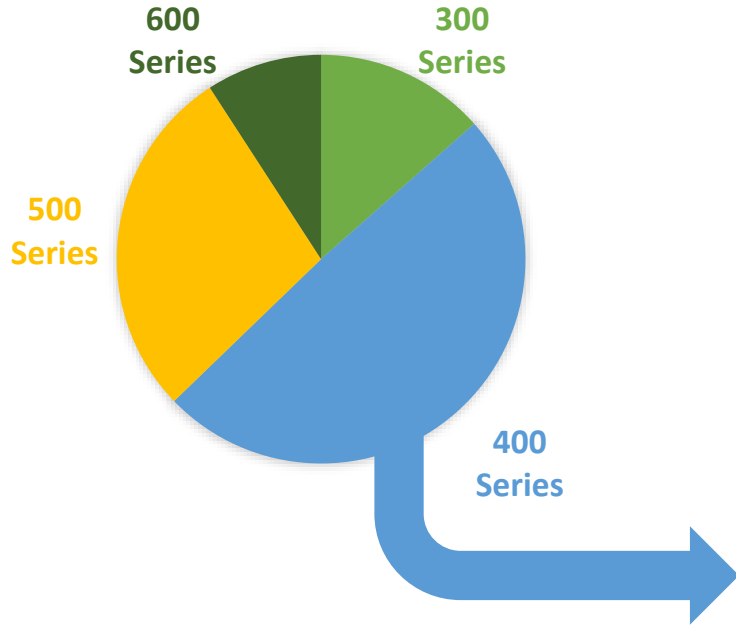
- **Ashley Tharp, AIS, AINS, ANFI, CFM**, Corporate Agent Training Manager
(800) 820-3242 x 5510 – Ashley.Tharp@weareflood.com

Flood Damage Reduction Activities (400 Series)



- Conducting and adopting flood studies
- Preserving floodplains as open space
- Freeboard requirements
- Lower substantial improvement threshold
- Coastal A Zone meeting V Zone requirements
- Enclosure limits
- Local drainage protection
- Soil and erosion control
- Water quality regulations
- Stormwater management regulations

Flood Damage Reduction Activities (400 Series)





Pinellas County Floodplains – Coastal

- **FEMA Flood Insurance Study (FIS) & Flood Insurance Rate Map (FIRM)**
- **Pinellas County Vulnerability Assessment**



Pinellas County Floodplains – Non-tidal

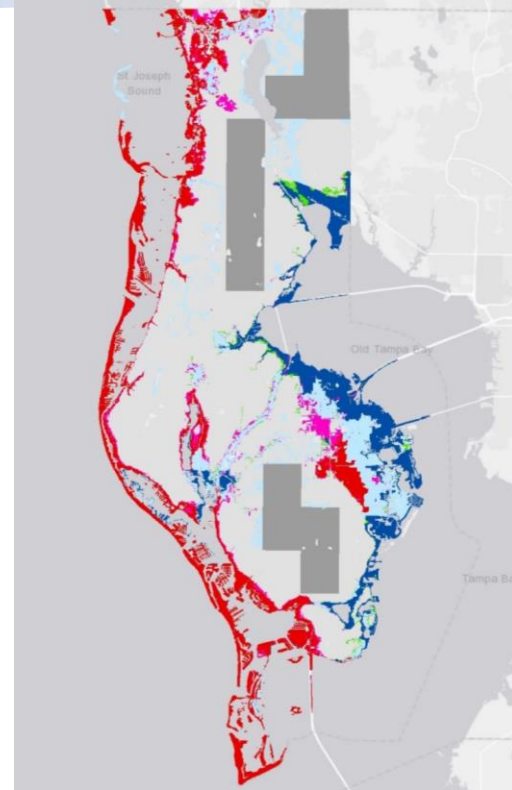
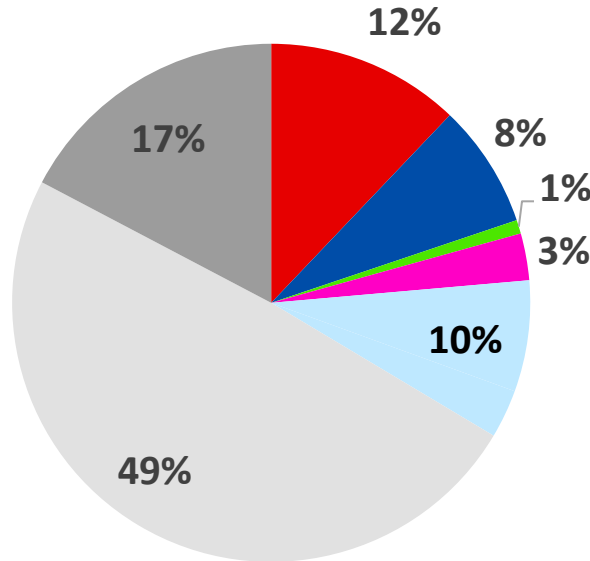
- **FEMA Flood Insurance Study (FIS) & Flood Insurance Rate Map (FIRM)**
- **Pinellas County Stormwater Master Plan (SWMP) and Watershed Management Plans (WMPs)**

- **Coastal Update Only**
 - **Started in 2012, Became Effective August 2021**
 - **Base Flood Elevations (BFE) provided on Flood Map Service**
 - Except for un-numbered A-zones
 - May need to add 0.4' to the BFE depending on Coastal Floodplain
- **Uses:**
 - **Determining Federal Flood Insurance Requirements**
 - **Building Regulations Minimum**
 - When not superseded by Best Available Data

Flood Insurance Rate Map (FIRM) Update

Overview of Changes from 2009 FIRM to New FIRM

Area - Countywide

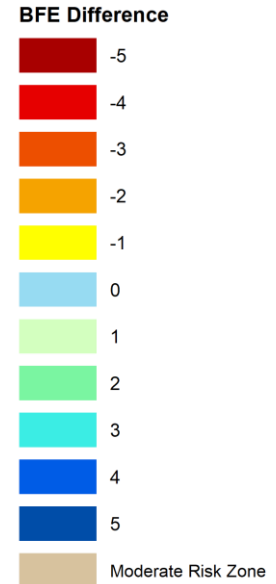
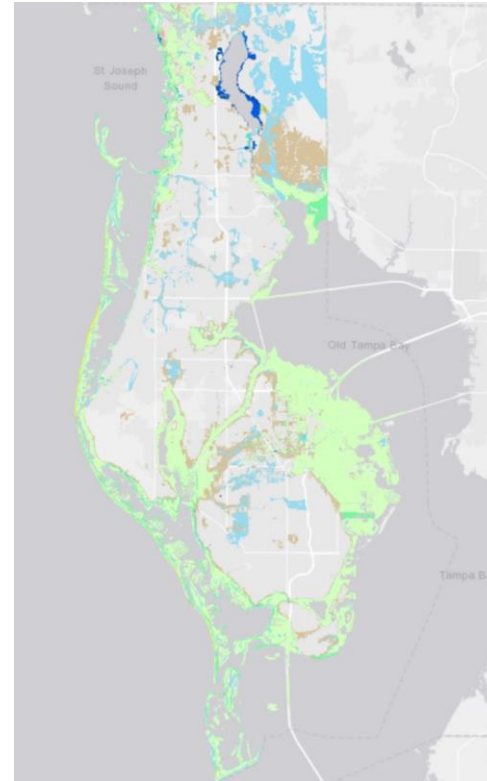
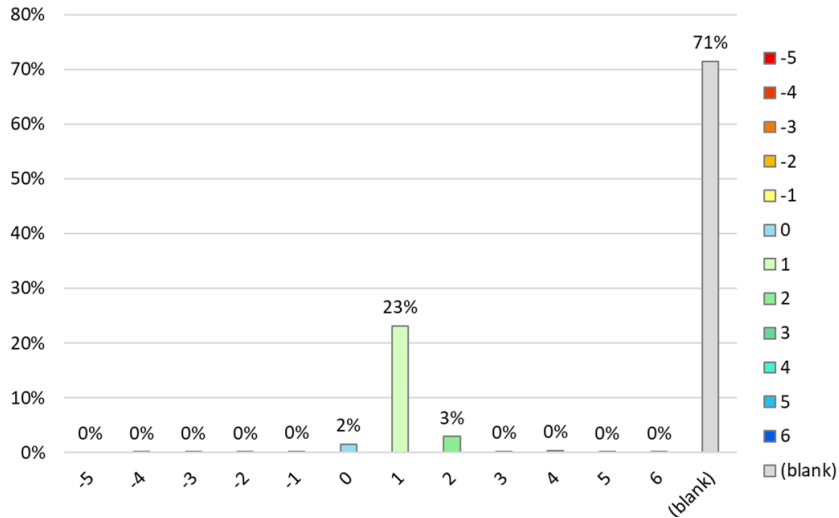


Pinellas County Vulnerability Assessment



BFE Difference from 2009 FIRM to Vulnerability Assessment

Generally, +1 ft Countywide



Watershed Management Plans (WMP)

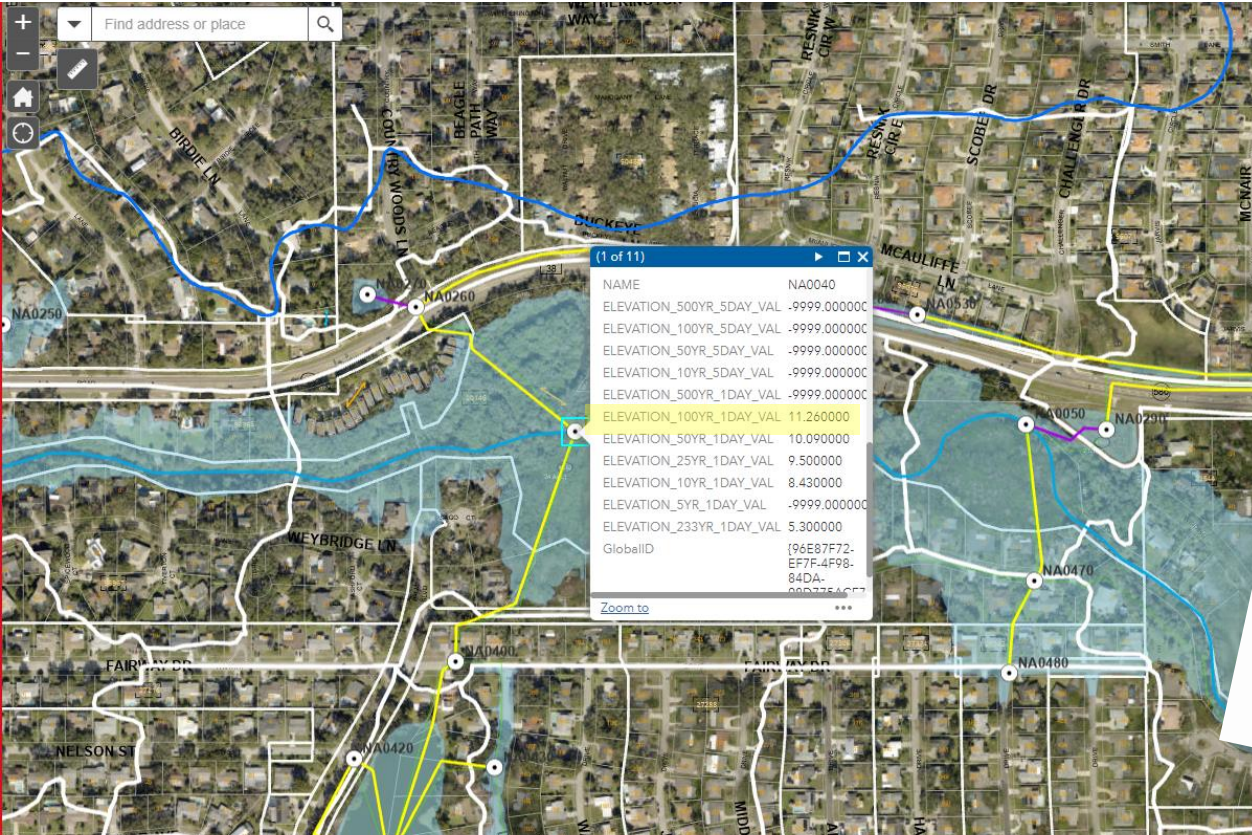


A Lump Sum Fee of: Three Hundred Seventy-Four Thousand Four Hundred Forty-Three and 00/100 Dollars (\$374,443.00) for the Task 2.1.4 – Watershed Management Plan Phase of the PROJECT.

2.1.4.1	Watershed parameterization	\$51,948.00
2.1.4.2	Interim Preliminary Model Review	\$4,596.00
2.1.4.3	Floodplain Analysis	\$62,598.00
2.1.4.4	Public Notification	\$5,176.00
2.1.4.5	Public Meeting	\$5,118.00
2.1.4.6	Revised floodplain analysis and delineation	\$14,962.00
2.1.4.7	Presentation to Governing Board	N/A
2.1.4.8	Sea-level Rise (SLR) Scenarios (Future Task - \$13,528.00)	N/A
2.1.4.9	Critical Storm Analysis (Future Task - \$13,128.00)	N/A
2.1.4.10	Level of Service Determination	\$20,098.00
2.1.4.11	Surface water resource assessment (water quality only)	
2.1.4.11.1	Water Quality and Watershed Assessment	\$25,080.00
2.1.4.11.2	Pollutant Loading Estimates	\$68,440.00
2.1.4.11.3	Water Quality Monitoring Plan	\$4,500.00
2.1.4.12	Geomorphic Analysis (Future Task - \$118,035.00)	N/A
2.1.4.13	Best Management Practices (BMP) alternative analysis	\$46,681.00
2.1.4.14	Project management and quality assurance/control	\$29,656.00
2.1.4.15	Final approved deliverables for the Watershed Management Plan	\$16,314.00
2.1.4.16	Final Watershed Management Plan Report	\$19,276.00



Watershed Management Plans (WMP)



Watershed Management Plans (WMP)

Best Management Practices (BMP) Analysis



Figure 5.11 N. Disston Avenue Drainage Improvements Conceptual Layout



Effective Model

CIP Model

Figure 5.12 N. Disston Avenue pre/post Flood Extents 10yr 24 hr Design Storm Event

Stormwater Manual



■ Chapter 2 – Stormwater Quantity and Flood Control Requirements

2.1. Stormwater Quantity Introduction

This Chapter provides the design criteria and methodologies for meeting the water quantity and conveyance requirements of the County's Land Development Codes. The criteria are intended to govern the design of new systems as well as the analysis and/or redesign of existing systems.

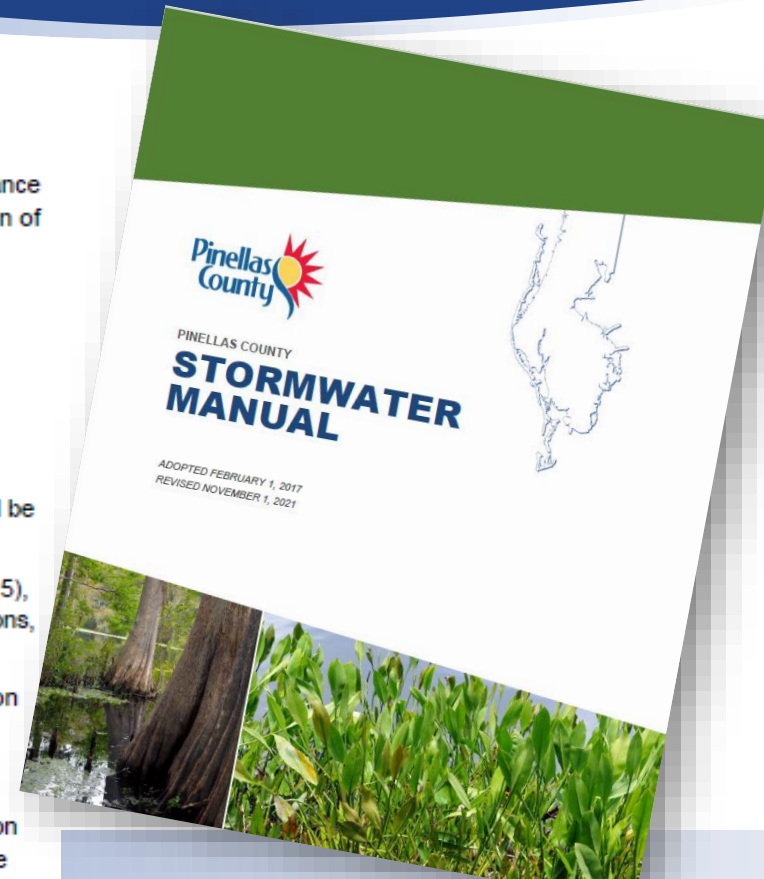
2.2. Design criteria.

2.2.1. Discharges to open watershed basins.

The following criteria are for design of stormwater management systems that discharge to an open watershed basin:

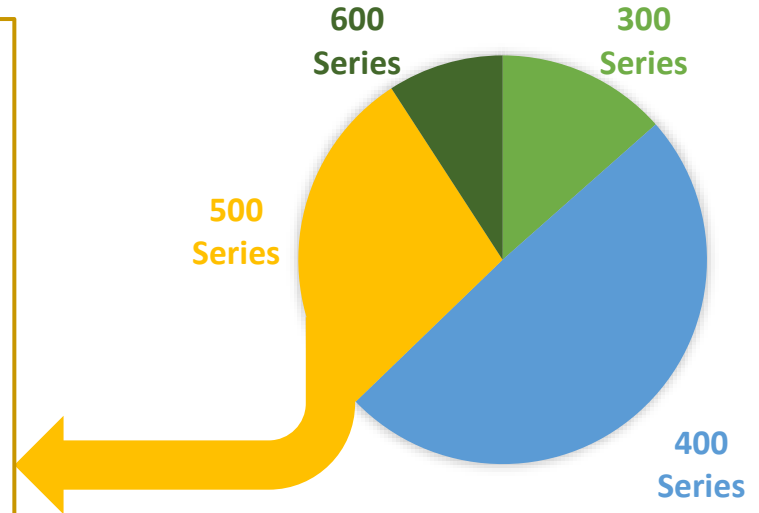
The maximum allowable discharge for systems serving new developments and redevelopments will be limited to:

- The historic discharge (as defined in the SWFWMD ERP handbook, volume 2, page 15), which is the peak rate at which runoff leaves a parcel of land under existing site conditions, for the 10-year / 24-hour and 25-year / 24-hour storm events, or
- The allowable discharge per the last legally approved site plan at the time of application for the 10-year / 24-hour and the 25-year / 24-hour storm events.
- The rate of runoff leaving the site will not cause adverse off-site impacts.
- The Natural Resources Conservation Service (NRCS), formerly known as the Soil Conservation Service (SCS), type II Florida Modified 24-hour rainfall distribution with an antecedent moisture

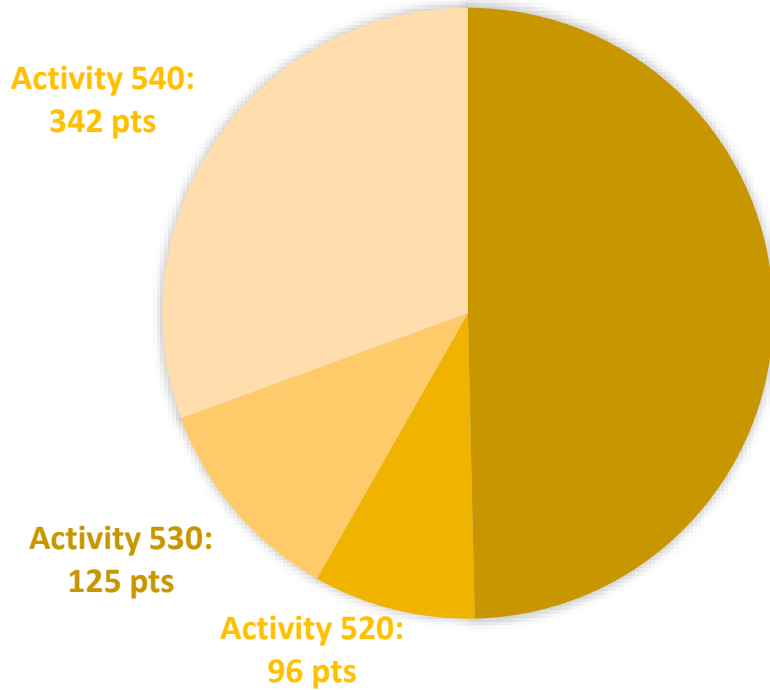


Flood Damage Reduction Activities (500 Series)

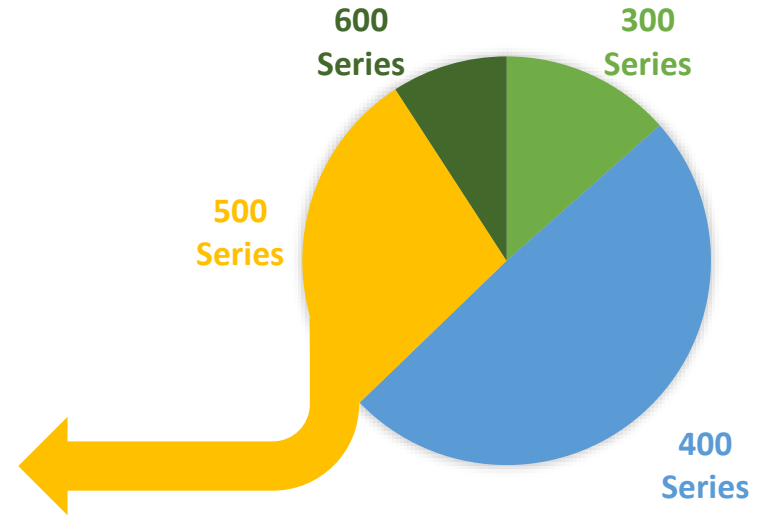
- Repetitive loss area analysis
- Substantial Damage Management Plan
- Acquiring and relocating buildings
- Elevating building above the flood level
- Capital improvements program
- Prohibition of dumping regulations
- Channel debris inspection and removal
- Hotspot identification, inspection, and maintenance



Flood Damage Reduction Activities (500 Series)



Activity 510:
555 pts



Repetitive Loss Area Analysis

**Repetitive Loss Area Name**

PELICAN CREEK

Watershed Name

BEAR CREEK

Repetitive Loss Area UID

21001

Repetitive Loss Area 2022 Comments

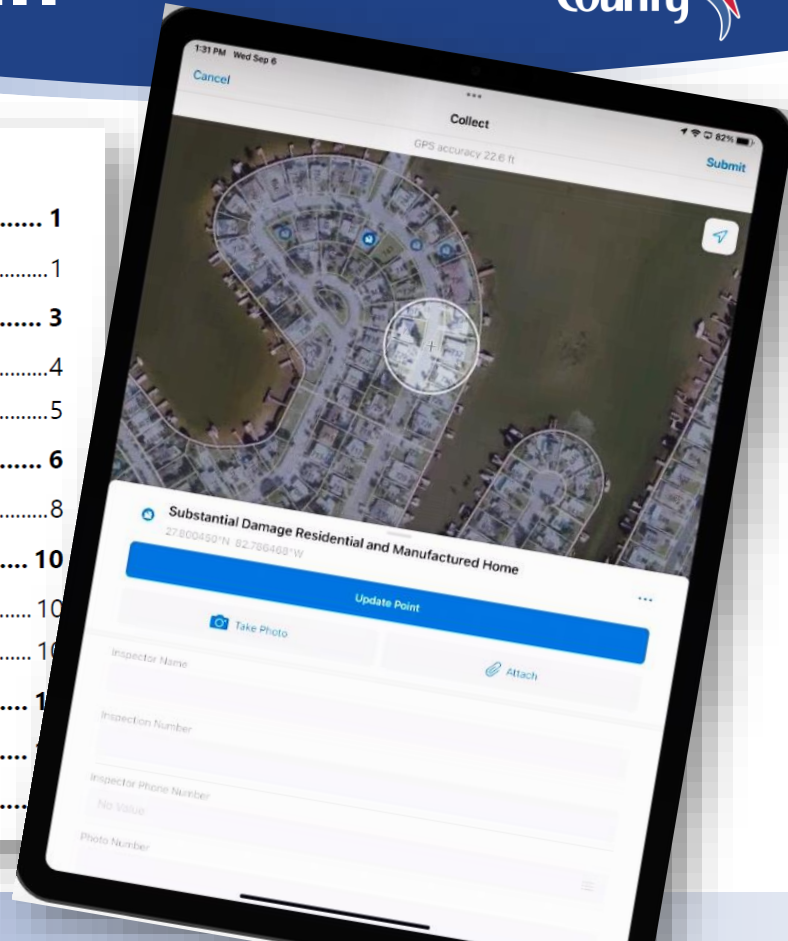
Add - Flooding with Eta; Low lying coastal area; Field inspection in 2021 - flume discharges into bear creek, tidally influenced and compound flooding with precip; no blockages

Substantial Damage Plan



TABLE OF CONTENTS

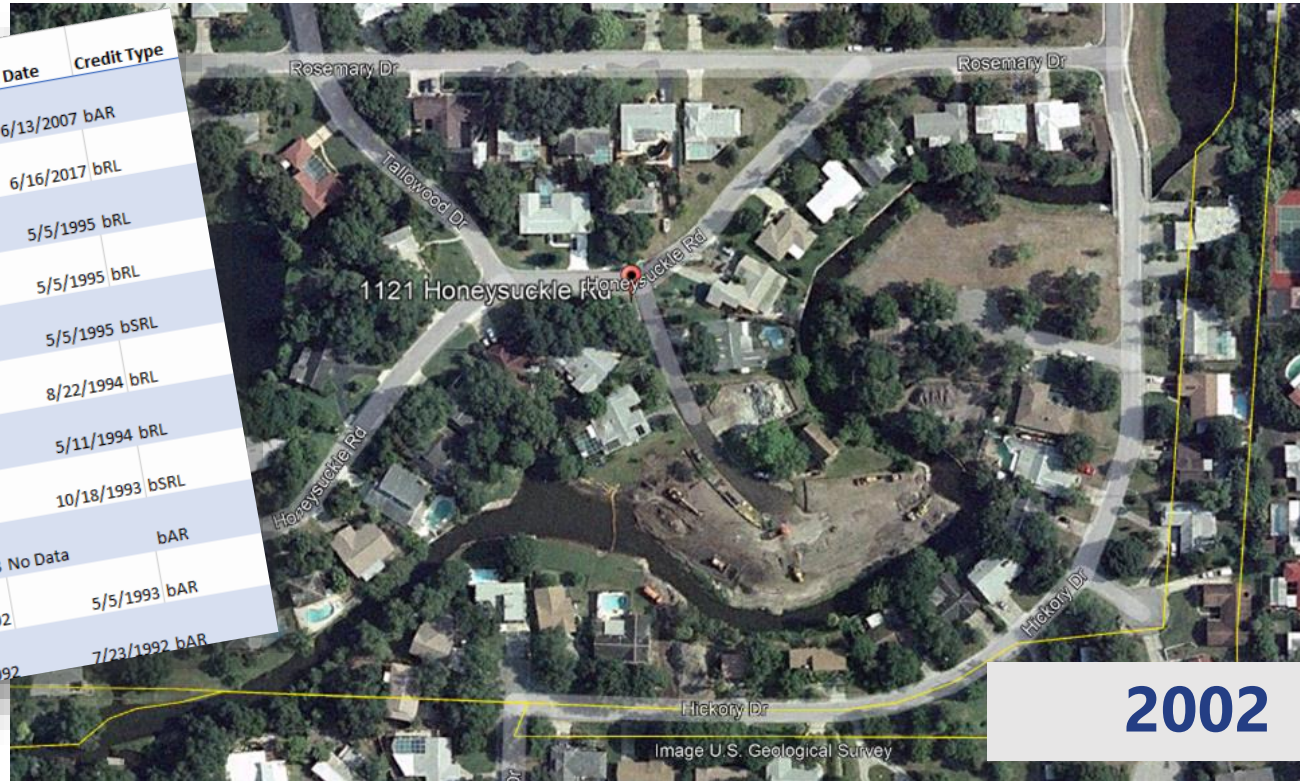
1	Introduction.....	1
1.1	Substantial Damage Definitions.....	1
2	Pinellas County Substantial Damage Vulnerability	3
2.1	Areas of Concern for Substantial Damage	4
2.2	Consideration of Mitigation Alternatives	5
3	Substantial Damage Management Team.....	6
3.1	Staff and Resource Needs.....	8
4	Property Database.....	10
4.1	Sources of Information.....	10
4.2	Compliance with the Federal Privacy Act.....	10
APPENDIX A	Substantial Damage Areas.....	1
APPENDIX B	Substantial Damage Inspection Reference Materials	1
APPENDIX C	Substantial Damage Determination Reference Materials	1



Acquisition, Relocation, and Elevation



Parcel ID	Address	Acquisition Date	Demolish Date	Credit Type
05-30-15-62334-003-0250	1121 Honeysuckle Drive	11/3/2006	6/13/2007	bAR
05-30-15-62334-003-0390	2890 Hickory Lane	8/26/2016	6/16/2017	bRL
05-30-15-62334-010-0020 and 05-30-15-62334-010-0030	833 Hickory Drive	12/4/1991	5/5/1995	bRL
05-30-15-62334-010-0040	865 Hickory Drive	12/10/1993	5/5/1995	bRL
05-30-15-62334-010-0050	897 Hickory Drive	4/14/1993	5/5/1995	bsRL
05-30-15-62334-010-0060	923 Hickory Drive	6/18/1993	8/22/1994	bRL
05-30-15-62334-010-0070	947 Hickory Drive	3/28/1994	5/11/1994	bRL
05-30-15-62334-010-0080 and 05-30-15-62334-010-0090	971 Hickory Drive	4/15/1993	10/18/1993	bsRL
05-30-15-62334-003-0350	No Data	7/15/1988	No Data	bAR
05-30-15-62334-003-0360	1014 Hickory Drive	8/3/1992	5/5/1993	bAR
05-30-15-62334-003-0370	No Data	1/14/1992	7/23/1992	bAR

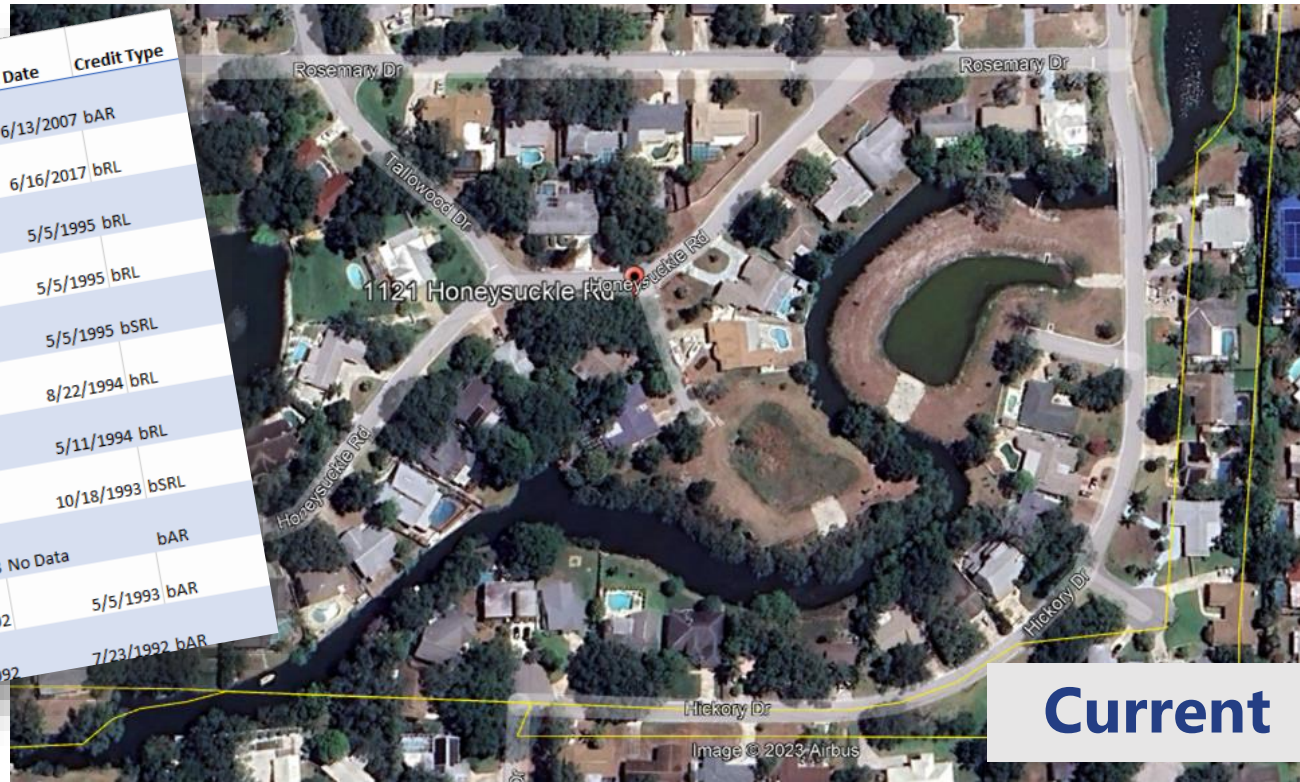


2002

Acquisition, Relocation, and Elevation



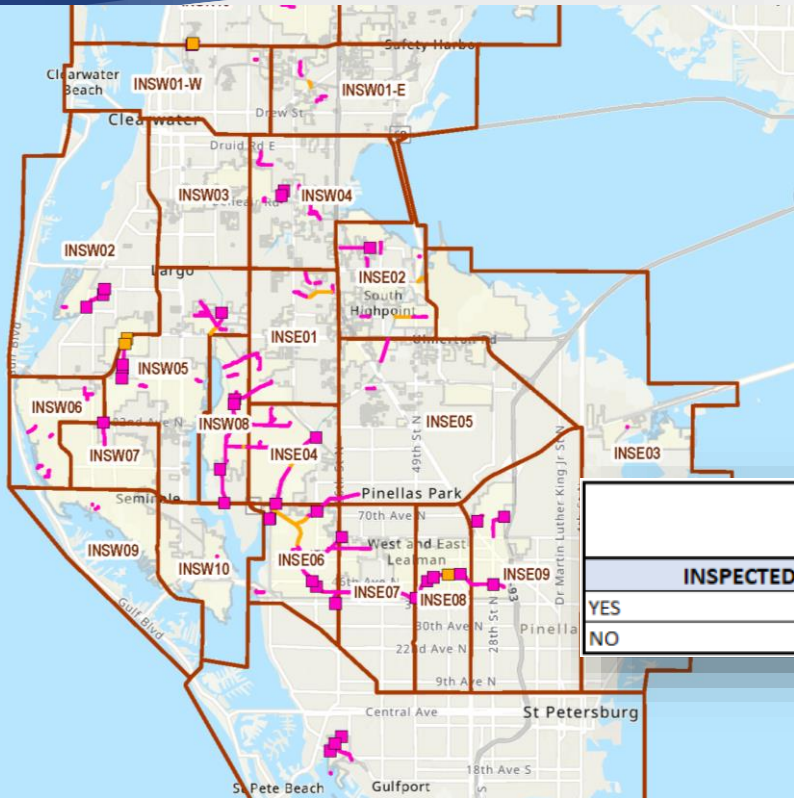
Parcel ID	Address	Acquisition Date	Demolish Date	Credit Type
05-30-15-62334-003-0250	1121 Honeysuckle Drive	11/3/2006	6/13/2007	bAR
05-30-15-62334-003-0390	2890 Hickory Lane	8/26/2016	6/16/2017	bRL
05-30-15-62334-010-0020 and 05-30-15-62334-010-0030	833 Hickory Drive	12/4/1991	5/5/1995	bRL
05-30-15-62334-010-0040	865 Hickory Drive	12/10/1993	5/5/1995	bRL
05-30-15-62334-010-0050	897 Hickory Drive	4/14/1993	5/5/1995	bsRL
05-30-15-62334-010-0060	923 Hickory Drive	6/18/1993	8/22/1994	bRL
05-30-15-62334-010-0070	947 Hickory Drive	3/28/1994	5/11/1994	bRL
05-30-15-62334-010-0080 and 05-30-15-62334-010-0090	971 Hickory Drive	4/15/1993	10/18/1993	bsRL
05-30-15-62334-003-0350	No Data	7/15/1988	No Data	bAR
05-30-15-62334-003-0360	1014 Hickory Drive	8/3/1992	5/5/1993	bAR
05-30-15-62334-003-0370	No Data	1/14/1992	7/23/1992	bAR



Current

Image © 2023 Airbus

Channels, Hotspots, and Storage Basins



PINELLAS COUNTY MAJOR DRAINAGE

Unincorporated County

INSPECTED MAJOR DRAINAGE, 2022

Not Inspected

Inspected

INSPECTED MAJOR DRAINAGE BRIDGES, 2022

Not Inspected

Inspected

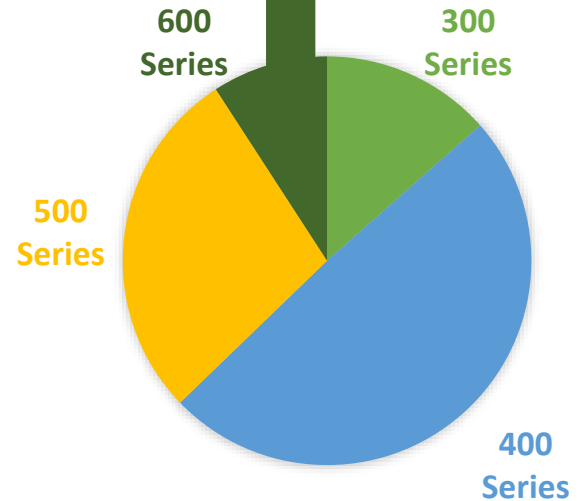
PINELLAS COUNTY CRS CDR INSPECTIONS SUMMARY

JULY 1, 2021 - JUNE 30, 2022

INSPECTED	SEGMENT COUNT	LENGTH (LF)	PERCENTAGE
YES	493	224,729.22	90.22%
NO	28	24,355.37	9.78%

Flood Damage Reduction Activities (600 Series)

- Flood Warning and Response
- Identification of impending flood threats
- Monitoring gauge levels
- Coordinating flood response activities
- Annual flood exercise
- StormReady Community



600 Series Activities



Pinellas County
Comprehensive Emergency
Management Plan



Volun

StormReady
NATIONAL WEATHER SERVICE

The West Central and Southwest Florida Storm Ready
Advisory Board has Approved

Pinellas County
for
STORM READY RECOGNITION
until July 17, 2027

Daniel [unclear]
Warning Coordinator
National Weather Service

Pinellas County
PUBLIC WORKS

PUBLIC WORKS DEPARTMENT

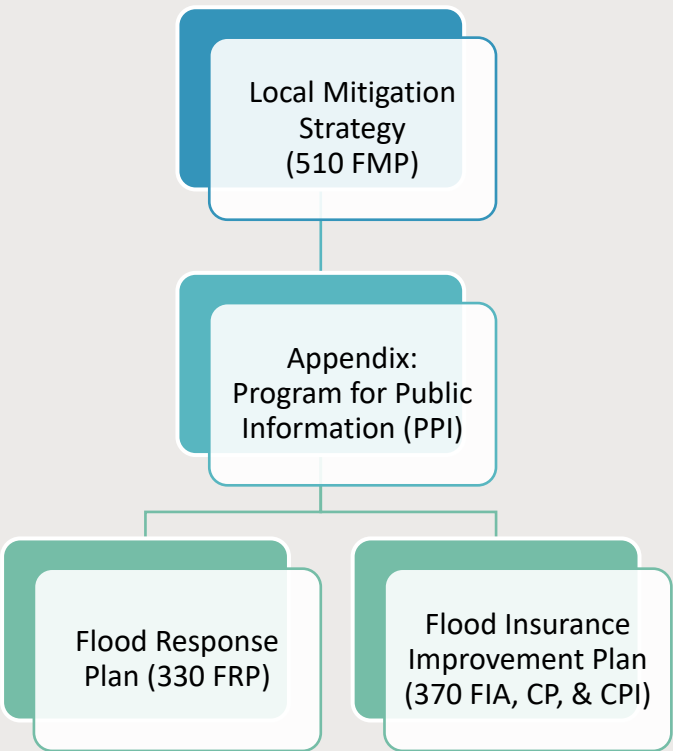
2022

Approved: *Kelli Hammer Levy*

No	Date	Revisions
1	May 16, 2016	Incorporate Engineering, Construction Admin and Survey and Mapping Staff into Plan Update
2	May 25, 2018	Updates to various sections
3	April 08, 2019	Incorporate SOG for PW Mutual Aid Deployment
4	May 2019	Added Air Quality

Emergency Response Plan

"FOR OFFICIAL USE ONLY"
PROTECTED BY FLORIDA STATUTES CHAPTER 281.301
EMERGENCY RESPONSE PLANS ARE NOT PUBLIC RECORDS
EMERGENCY RESPONSE PLANS ARE CONFIDENTIAL, SECURED, PROTECTED DOCUMENTS



WHAT IS MITIGATION?

MITIGATION is reduction or elimination of long-term risk to human life and property from hazards.

MITIGATION IS TAKING ACTION TODAY TO CREATE FOR US A SAFER TOMORROW

WHAT DO YOU MEAN BY A HAZARD?

NATURAL
 FLOODS
 TROPICAL STORMS
 WILDFIRES

MAN-MADE
 HAZARDOUS WASTE SPILLS
 CYBER SECURITY THREATS
 AIR QUALITY REDUCTION

MITIGATION ACTIONS COULD MEAN A NUMBER OF THINGS.

STRUCTURAL SOLUTIONS
NATURAL SOLUTIONS

POLICIES & CODES **PUBLIC EDUCATION** **PARTNERSHIPS** **PREPAREDNESS**

WHY MITIGATE?

MITIGATION HELPS SAVE MONEY

MITIGATION HELPS CREATE A RESILIENT COMMUNITY

PINELLAS COUNTY
MULTI-JURISDICTIONAL
PROGRAM FOR PUBLIC INFORMATION

Pinellas County | November, 2019



Flood Risk and Mitigation Public Information Working Group (FRMPIWG)

- 17 Municipalities plus County
 - Meet three times per year
 - 10 Topics with Key Messages
-



Prerequisites



- **Repetitive Loss Outreach** for Category B or C (any repetitive loss properties) with sources of financial assistance identifies (grant programs, etc.)
- **Receive 90% or higher on Construction Certificates**
- **Construction Certificate Management Procedures**
- **Flood insurance policies** on community owned buildings in SFHA
- **Show LiMWA on final FIRM**
- **1 ft Freeboard** (including mobile homes)
- **BCEGS Classification**
- **Open Space AND Higher Development Regulations**
- **Watershed Master Plan** (with future conditions consideration)
 - Must include sea level rise for coastal communities
- **Water Quantity UP TO and INCLUDING 100-yr**
- **Floodplain Management Plan**
- **Flood Warning and Response Plan** (with levees and/or dam failure threat)



Questions?

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Floodplain Technician
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MMoore@Pinellas.gov



www.Pinellas.gov/publicworks

