



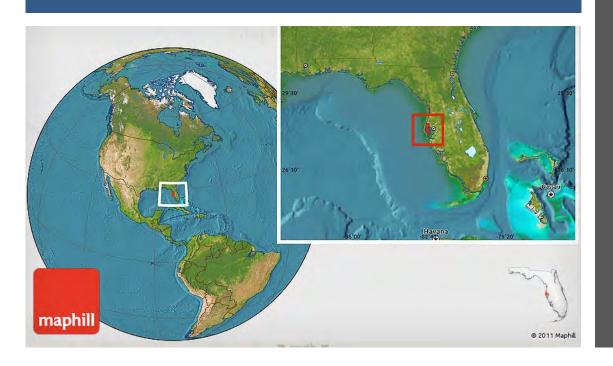
Lisa Foster, CFM
Floodplain Administrator

LDFoster@pinellas.gov

Wednesday, September 13, 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 Titusville Bluffs WT VD Largo 8th Ave SW Dryer Ave s Beach Clearwater Tampa St. Petersburg E to to 35 test Guil at Mexico to to 28 teet Cup to 20 test Bis to 15 teet Du to Hi test Sarasota











Types of Flood Risk



Riverine



Surface / Localized



Coastal

- Storm Surge
- Blue Sky

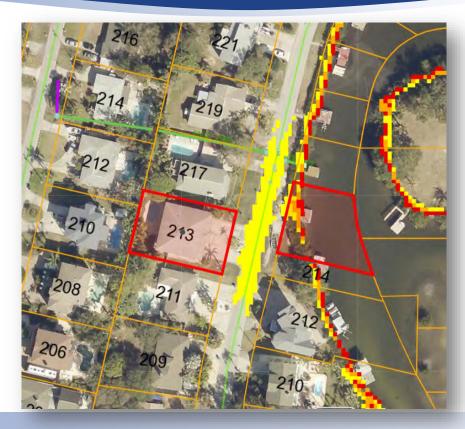
Blue Sky Flooding

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





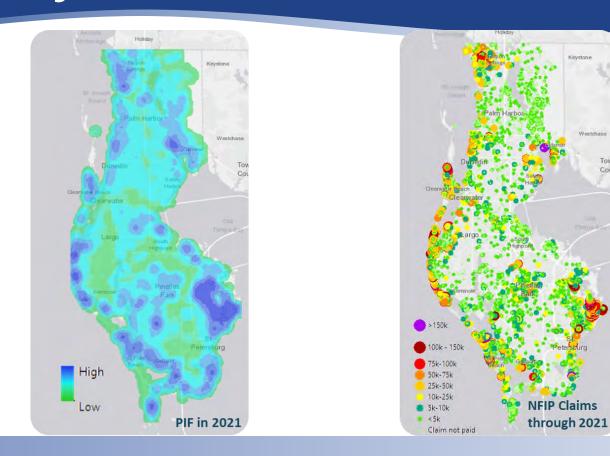




County NFIP Policies & Claims

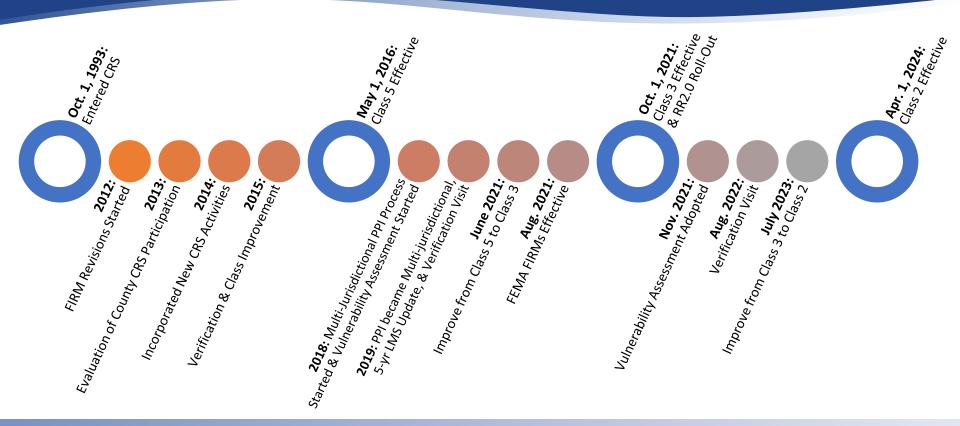


Westchase



CRS Timeline





CRS Class 2 Letter







COMMUNITY RATING SYSTEM

VERIFICATION REPORT

Pinellas County, FL

Verified Class 2

NFIP Number: 125139

Cycle

Date of Verification Visit: August 23, 2022

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 Class 2 Letter



<u>Activity 310 – Construction Certificate Management:</u> Credit is provided for having written construction certificate management procedures for all new and substantially improved/substantially damaged buildings. (38 points)

<u>Activity 320 – Map Information Service:</u> Credit is provided for furnishing inquirers with basic flood zone information from the community's latest Flood Insurance Rate Map (FIRM). Credit is also provided for the community offering additional FIRM information, depth data, and natural floodplain functions. The service is publicized annually and records are maintained. (90 points)

Activity 330 – Outreach Projects: Credit is provided for informational outreach projects, general outreach projects, and targeted outreach projects. These projects are disseminated annually. Credit is also provided for having a pre-flood plan for public information. Credit is enhanced by having a Program for Public Information (PPI) and by having the information disseminated by stakeholders outside the local government. A progress report for the PPI must be submitted on an annual basis. (350 points)

<u>Activity 340 – Hazard Disclosure:</u> Credit is provided for the local real estate agents disclosure of flood hazards to prospective buyers. Credit is also provided for state regulations requiring disclosure of flood hazards. Real estate agents provide a brochure advising prospective buyers about insurance and checking property flood hazards. Credit is enhanced by having a PPI. (57 points)

<u>Activity 350 – Flood Protection Information:</u> Documents relating to floodplain management are available in the reference section of the Pinellas County Public Library Cooperative. Credit is also provided for floodplain information displayed on the community's website. Credit is enhanced by having a PPI. (112 points)

<u>Activity 360 – Flood Protection Assistance:</u> Credit is provided for offering one-on-one advice regarding property protection and making site visits before providing advice. Credit is also provided for advisor training at appropriate Emergency Management Institute (EMI) courses. The service is publicized annually and records are maintained. Credit is enhanced by having a PPI. (85 points)

<u>Activity 370 – Flood Insurance Promotion:</u> Credit is provided for assessing the community's current level of flood insurance coverage. Credit is provided for the development and implementation of a coverage improvement plan. A progress report must be submitted on an annual basis. Credit is also provided for providing technical advice regarding flood insurance. State insurance regulations require continuing education for insurance agents. The service is publicized annually and records are maintained. Credit for implementing a coverage improvement plan is enhanced by having a PPI. (155 points)

CRS Class 2 Letter



<u>Activity 410 – Floodplain Mapping</u>: Credit is provided for conducting and adopting flood studies for areas not included on the FIRMs and that exceed minimum mapping standards. (56 points)

<u>Activity 420 – Open Space Preservation:</u> Credit is provided for preserving approximately 61 percent of the Special Flood Hazard Area (SFHA) as open space and preserving open space land in a natural state. Credit is also provided for regulations that minimize development in the SFHA. (988 points)

<u>Activity 430 – Higher Regulatory Standards:</u> Credit is provided for enforcing regulations that require development limitations, freeboard for new construction and substantial improvement, foundation protection, lower substantial improvement, enclosure limits, local drainage protection, and coastal A Zone structures to meet V Zone building criteria. Credit is also provided for the enforcement of building codes, a Building Code Effectiveness Grading Schedule (BCEGS®) Classification, and regulations administration. (501 points)

<u>Activity 440 – Flood Data Maintenance:</u> Credit is provided for maintaining and using additional map data in the day to day management of the floodplain. Credit is also provided for maintaining copies of all previous FIRMs and Flood Insurance Study reports. (166 points)

<u>Activity 450 – Stormwater Management:</u> The community enforces regulations for stormwater management, soil and erosion control, and water quality. Credit is also provided for watershed master planning. (253 points)

<u>Activity 510 – Floodplain Management Planning:</u> Credit is provided for the Pinellas County Multi-Hazard Local Mitigation Strategy, adopted on April 21, 2020, for conducting a repetitive loss area analyses, and for the development of a Substantial Damage Plan. A progress report for each plan must be submitted on an annual basis. (555 points)

<u>Activity 520 – Acquisition and Relocation</u>: Credit is provided for acquiring 20 buildings from the community's regulatory floodplain. (96 points)

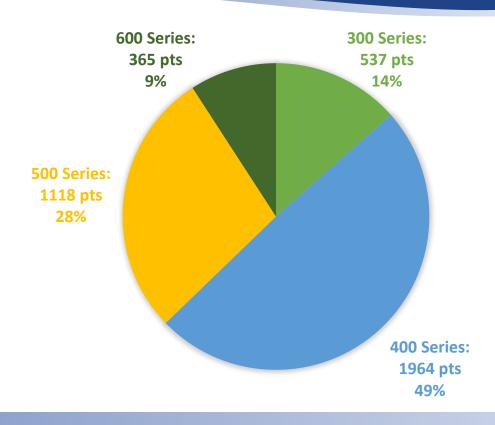
<u>Activity 530 – Flood Protection</u>: Credit is provided for 52 buildings that have been elevated to protect them from flood damage. (125 points)

<u>Activity 540 – Drainage System Maintenance:</u> Credit is provided for the regular inspection and maintenance of the community's natural drainage system, identified problem sites, and storage basins and records are maintained. Credit is provided for implementing an ongoing Capital Improvements Program. The community enforces a regulation prohibiting dumping in the drainage system and annually publicizes the regulation. Credit is enhanced by having a PPI. (342 points)

<u>Activity 610 – Flood Warning and Response:</u> Credit is provided for a program that provides timely identification of impending flood threats, disseminates warnings to appropriate floodplain residents, and coordinates flood response activities. Credit is also provided for the designation as a Storm Ready Community by the National Weather Service. A description of the flood exercise or After Action Report from an actual flood event must be submitted on an annual basis. Warning information and safety measures must be publicized annually. (365 points)

CRS Points By Series







Adoption of Best Available Data

Types of Flood Data





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)

FEMA FIS and FIRM



- 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
- Ţ

FEMA is no longer using the FIRM to determine flood insurance rates

Pinellas County Floodplains





Non-tidal Floodplains

- Pinellas County Stormwater Master Plan (SWMP) and Watershed Management Plans (WMP)
 - Dates vary depending on watershed
 - Base Flood Elevations (BFE) need to be determined by Pinellas County



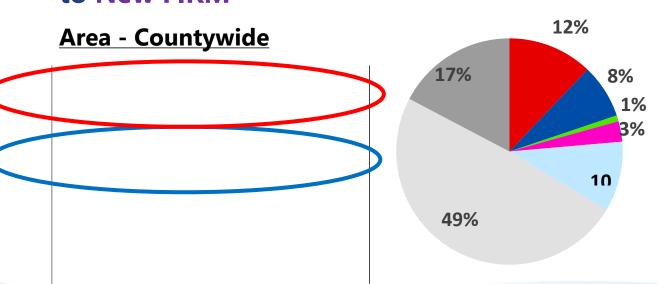
Coastal Floodplains

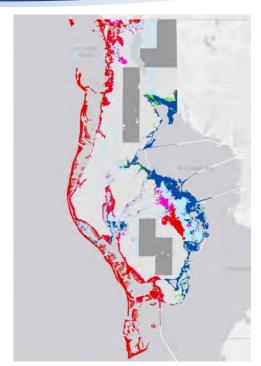
- Pinellas County Vulnerability Assessment (2021)
 - Started in 2018, Adopted by BOCC in 2021
 - Base Flood Elevations (BFE) provided on Flood Map Service

Flood Insurance Rate Map (FIRM) Update for Pinellas County



Overview of Changes from 2009 FIRM to New FIRM



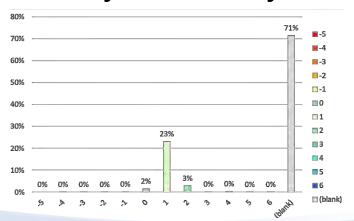


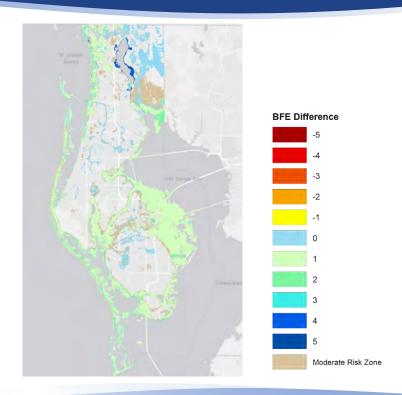
Pinellas County Vulnerability Assessment



BFE Difference from 2009 FIRM to Vulnerability Assessment

Generally, +1 ft Countywide





FEMA vs Regulatory Area



FEMA Flood Insurance Rate Map (FIRM)

Total SFHA*: 21,822.8 ac
Zone VE: 1,754.6 ac
Coastal A Zone: 2,419.4 ac
Zone AE: 14,244.8 ac

Zone AH: 0 ac
Zone AO: 25.1 ac
Zone A: 5,798.3 ac
Zone X (Shaded): 7,429.7 ac
Zone X: 36,266.8 ac

Pinellas County Floodplains (100-Year)

Non-Tidal (Outside of SFHA): 6,028 ac Coastal (Outside of SFHA): 3,993 ac

Total Pinellas County Floodplains (Outside of SFHA): 9,358,3 ac

Total Municipal Area: 65,519.4 ac **Regulatory Floodplain Area:** 31,182 ac



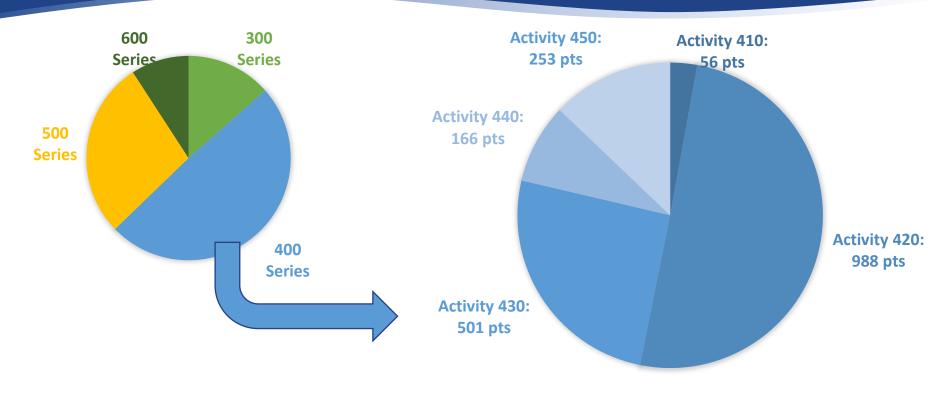
$$Ratio = \frac{Regulatory Area (ac)}{FEMA SFHA (ac)}$$

CRS Activities

- Flood Hazard Mapping (410)
- Open Space Preservation (420)
- Higher Regulatory Standards (430)

400 Series Points Breakdown







	OSP* (ac TOTAL	OSP (ac in SFHA + PCFP**)	Percent of Total OSP ac	OSP (ac in SFHA)		NFOS1: Undevelo ped/natu ral state (ac in SFHA + PCFP\	NFOS2: Protection Plan (ac in SFHA + PCFP)	NFOS3: Threatened and Endangered Species	aNFOS5: Education al Materials (ac in SFHA +	aSHOS: Seaward of CCCL (ac)
OSPNAME	~	r +1	~	~	▼	rcrr *	▼	_	- FCFF	~
BROOKER CREEK PRESERVE	7083.9	1 4789.41	35%	3449.91	1339.50	4789.41	4789.41	4789.4	1 4789.41	
FORT DE SOTO PARK	1157.1	3 1149.48	8%	1148.64	0.84	1149.48		1149.4	В	1149.48
SHELL KEY PRESERVE	332.3	5 307.20	2%	307.20	0.00	307.20	307.20	307.2	307.20	
County ParcellD: 000000000000000000 (PRESERVATION)	337.2	8 280.46	2%	247.52	32.94	280.46		280.4	5	
SAWGRASS LAKE PARK	284.7	0 280.08	2%	252.36	27.73	231.45	231.45	280.0	3	
JOHN CHESNUT SR. PARK	238.6	2 230.97	2%	150.20	80.77	85.12	85.12	230.9	7	
WEEDON ISLAND PRESERVE	206.4	2 198.01	1%	167.37	30.63	198.01	198.01			
County ParcellD: 252715000001000100 (RECREATION/OPEN SPACE)	443.5	6 188.36	1%	66.04	122.32			TOTAL	c	
WALL SPRINGS PARK	209.7	9 172.41	1%	139.73	32.68	73.92	73.92	IOIA		
JOE'S CREEK MANAGEMENT AREA	171.7	2 168.41	1%	162.22	6.19	164.17	164.17	aSFHA	218	222
County ParcellD: 212716000001100200 (PRESERVATION)	127.2	1 124.84	1%	124.32	0.52	124.84		asiliA	210	123
County ParcellD: 023016000004200100 (RECREATION/OPEN SPACE)	122.2	2 121.75	1%	121.60	0.15			aOSP	3524	00
BEACH/PARK	109.6	0 109.60	1%	109.60	0.00	109.60		aUSP	13324.	.00
WAR VETERANS' MEMORIAL PARK	105.9	1 105.91	1%	103.93	1.98			-NEOS1	1525	EO
County ParcellD: 342716000001400000 (RECREATION/OPEN SPACE)	122.0	3 94.20	1%	89.67	4.53			aNFOS1	1535	ון פכ.
WALSINGHAM PARK	264.1	0 92.88	1%	0.00	92.88			-NEOCO	COOL	02
BOCA CIEGA MILLENNIUM PARK	124.6	2 90.82	1%	63.52	27.30	17.62	17.62	aNFOS2	6385	.65
County ParcelID: 102816000002200100 (PRESERVATION)	105.2	9 87.17	1%	86.14	1.03	87.17		-NEOCO	7764	70
ANCLOTE ISLANDS MANAGEMENT AREA	84.2	7 80.98	1%	80.90	0.07	82.45	82.45	aNFOS3	7764.	./9[[
County ParcelID: 062715000002200100 (PRESERVATION)	79.6	2 79.52	1%	79.52	0.00	79.52		- NEOGE	F000	76
LAKE SEMINOLE PARK	78.3	3 78.32	1%	75.21	3.10	56.13	56.13	aNFOS5	5309.	./6
County ParcelID: 032716189090000001 (PRESERVATION)	76.8	1 76.66	1%	76.47	0.19	76.66		01100	4050	00
COW BRANCH MANAGEMENT AREA	85.8	9 73.42	1%	54.73	18.69	53.86	53.86	aSHOS	1259.	.08[[
PINELLAS TRAIL CORRIDOR	143.6	2 72.29	1%	44.32	27.97	3.40	3.40			
County Parcello: 002716201070000001 (DECDEATION/ODEN SDACE)	150 3	3 70 37	194	62.23	₽ 1/1					



lao File OSPNAME	OSP (ac TOTAL)	OSP (ac in SFHA)	NFOS1: Undevelo ped/natu ral state (ac in SFHA)	NFOS2: Protectio n Plan (ac in SFHA)	NFOS3: Threatened and Endangered Species	aNFOS5: Education al Materials (ac in SFHA)	aSHOS: Seaward of CCCL (ac)
A. L. ANDERSON PARK	1.15	1.11			field v	erified	
1.1 ALLEN'S CREEK MANAGEMENT AREA	25.08	25.02	25.02	25.02			
1.2 ALLIGATOR LAKE MANAGEMENT AREA	42.81	27.67	27.67	27.67			
1.3 ANCLOTE ISLANDS MANAGEMENT AREA	84.27	80.98	82.45	82.45			
BAYPOINTE STORMWATER AND CONSERVATION AREA	39.03	3.98	3.98				
1.4 BOCA CIEGA MILLENNIUM PARK	124.62	90.82	17.62	17.62			
1.5 BROOKER CREEK PRESERVE	7083.91	4789.41	4789.41	CONTRACTOR		4789.41	
1.6 CABBAGE KEY MANAGEMENT AREA	68.68	68.68	68.68	68.68		.,,.	
1.7 COW BRANCH MANAGEMENT AREA	85.89	73.42	53.86	53.86			
1.8 CROSS BAYOU LITTLE LEAGUE	14.75	14.73	0.09	0.09			
DUKE ENERGY TRAIL CORRIDOR	8.79	1.13	250	4.74		field ven	find
1.9 EAST LAKE MANAGEMENT AREA	23.81	23.79	23.79	23.79		lield ver	illeu
FLORIDA BOTANICAL GARDENS	17.42	10.57					
FORT DE SOTO PARK	1157.13	1149.48	1149.48		Tielgi46	erified	1149.48
GCMA	2.00	0.23					-
HERITAGE VILLAGE	18.38	5.76					
1.10 JOE'S CREEK MANAGEMENT AREA	171.72	168.41	164.17	164.17	168.41		
1.11 JOHN CHESNUT SR. PARK	238.62	230.97	85.12	85.12	230.97		
1.12 JOHN 5. TAYLOR PARK	38.13	32,40	27.66	27.66			
LAKE SEMINOLE DREDGE DISPOSAL AREA	12.46	12.44					
1.13 LAKE SEMINOLE MANAGEMENT AREA	39.90	38.45	28.01	28.01			
1.14 LAKE SEMINOLE PARK	78.33	78.32	56.13	56.13			
1.15 LAKE TARPON MANAGEMENT AREA	38.62	38.62	37.61	37.61			
1.16 LAKE TARPON WEST MANAGEMENT AREA	3.00	3.00	3.00	3.00			
LEALMAN NEIGHBORHOOD PARK	2.95	0.21					
LIVE OAK PARK AT CRYSTAL BEACH	2.23	2.23					
1.17 LONG BRANCH MANAGEMENT AREA	7.89	7.89	7.89	7.89		fiel	d verifie
1.18 MOBBLY BAYOU PRESERVE	15.15	15.14	15.14	15.14		15.14	a voline
1.19 OTHER - OPEN WATER SUBMERGED LAND	0.70	0.52	0.52	0.52			
1.20 OTHER - RESIDENTIAL MANGROVE FRINGE	1.20	1.20	1.20	1,20			
4 34 OZONA MANACEMENT ABEA	E 47	E 42	E 12	E 42			

70	TALS		то	TALS
FHA	21907.7	2	SFHA	21907.7
)SP	13446.47		OSP =	13,446.5
FOS1	21462.55	6604.99	HRS =	8461.235
	*0505.03	1564.84		
VFO52				
		2975,38		
NFOS2 NFOS3	F300-35	29/5,38		

clear cut in many areas

clear cut in many areas

can't verify



422 Elements

422.a. Open space preservation (OSP)

Open space preservation (OSP)

Verified 10 largest OSP sites (area) = 13,446.47

Verified remaining OSP sites (area) =

Area of preserved open space (aOSP)

Impact adjustment ratio = rOSP = aOSP = 13,446.47 aSFHA 21,908.00

cOSP = OSP x rOSP cOSP = 884.50

422.c. Natural functions open space (NFOS)

Natural functions open space (NFOS1)

Verified 10 largest NFOS1 sites = 6,604.99

Verified remaining NFOS1 sites =

Area of all parcels that qualifies for NFOS credit (aNFOS1)

Impact adjustment ratio = rNFOS1 = aNFOS1 = 6,604.99 aSFHA 21,908.00

cNFOS1= NFOS1 x rNFOS1

1,450

0.61

190

0.30

cNFOS1 = 57.00



NFOS1 parcel has ESA habitat (NFOS3)

Verified 10 largest NFOS3 sites = 2,975.38

Verified remaining NFOS3 sites =

Area of all parcels that qualifies for NFOS3 credit (aNFOS3)

Impact adjustment ratio = rNFOS3 = aNFOS3 = 2,975.38 aSFHA 21,908.00

cNFOS3= NFOS3 x rNFOS3

Land Use Plan (OSI7)

cOSI = cOSI1 + cOSI2 + cOSI3 + cOSI4 + cOSI5 + cOSI6 + OSI7

= 50

= 0.14

cNFOS3 = 7.00

OSI7 = 10

cOSI = 10.00

c410	54	x CGA	1.03	=	56
c420	959	x CGA	1.03	=	988
c430	486	x CGA	1.03	=	501
c440	161	x CGA	1.03	=	166
c450	246	x CGA	1.03	=	253

423 Credit Calculation

c420 = cOSP + cDR + cNFOS + cSHOS + cCEOS + cOSI + cLZ + cNSP

c420 = 959

Regulations that protect floodplain storage (DL1b#1)



Regulations that	protect noouplain's	toray	e (DLID#I)			= 130		
Area of the regula	tion protecting flood s	torag	e (aDL1b#1)					
Impact adjustmen	t ratio = rDL1b#1	=	aDL1b#1	=	6,370.53	= 0.29		
			aSFHA	_	21,908.00			
Verified ratio =	Number passed	=	5			= 1.00		
	Number sampled		5					
cDL1b#1 = DL1b#	#1 x rDL1b#1 x Verifie	d ratio	0			cDL1b#1 =37.70		
cDL1b = cDL1b#1 + cDL1b#1b + cDL1b#3 cDL1b = <u>37.</u>								
Regulations that	prohibit buildings (DL2#			=75			
Area of the regula	tions that prohibit buil	dings	(aDL2#1)					
Impact adjustmen	t ratio = rDL2#1	=	aDL2#1	=	373.00	=0.10		
			aSFHA		21,908.00			
Verified ratio =	No. sites passed	=	5			= 1.00		
	No. sites checked		5					
cDL2#1 = DL2#1	x rDL2#1 x Verified ra	itio				cDL2#1 =		
cDL2 = cDL2#1 +	cDL2#2 + cDL2#3					cDL2 =		



Area of the regulations that prohibit storage of hazardous materials (aDL3b#1)

$$cDL3b#1 = 7.40$$



432.b. Freeboard (F	RB)
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432.D. 1100D00	ard (FRE)					
Floodplain regu	lations that require f	freebo	oard (FRB#1)		= 110
FRB Height: 1	ft					
Area of floodplair	regulations that requ	ire fre	eboard (aFR	(B#1)		
Impact adjustme	nt ratio = rFRB#1	=	aFRB#1	_ = _	8,088.53	=0.37
			aSFHA		21,908.00	
Verified ratio =	Number passed	=	33	_		= 1.00
	Number sampled		33			
cFRB#1 = FRB#	1 x rFRB#1 x Verified	ratio				cFRB#1 = 40.70
432.c. Foundat	tion protection (FD	N)				
Regulations that	t protect foundations	s (FDI	N#1)			= 60
Area of floodplain	regulations that requi	ire fre	eboard (aFD	N#1)		
Impact adjustmer	nt ratio = rFDN#1	=	aFDN#1	=	6,743.53	= 0.31
			aSFHA		21,908.00	
Verified ratio =	Number passed	=	5			= 1.00
	Number sampled		5			
cFDN#1 = FDN#	1 x rFDN#1 x Verified	ratio				cFDN#1 = 18.60
cFDN = cFDN#1	+ cFDN#2 + cFDN#3					cFDN =18.60



432.e. Lower	substantial	improvements	threshold	(LSI)	
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	Annual and contract to the state of the					
Lower substantial	improvement thresho	ld (L	SI#1)			= 20
Area of lower sub	stantial improvement	hres	hold (aLSI#1)			
Impact adjustmen	t ratio = rLSI#1	=	aLSI#1	=	8,088.53	= 0.37
			aSFHA		21,908.00	
Verified ratio =	Number passed	=	0			= 1.00
	Number sampled		0			
cLSI#1 = LSI#1 x	rLSI#1 x Verified ratio					cLSI#1 =7.40
cLSI = cLSI#1 + c	LSI#2 + cLSI#3					cLSI =7.40
432.g. Enclosu	re limits (ENL)					
Regulations pro	hibiting/restricting e	nclo	sures (ENL1,	2#1)		= 100
Area of enclosure	limits (aENL1,2#1)					
Impact adjustmen	t ratio = rENL1,2#1	=	aENL1,2#1	=_	8,088.53	= 0.37
			aSFHA		21,908.00	
Verified ratio =	Number passed	=	5			= 1.00
	No. sampled/checked		5			
cENL1,2#1 = ENL	.1,2#1 x rENL1,2#1 x	Verif	ied ratio			cENL1,2#1 = <u>37.00</u>
cENL1,2 = cENL1	,2#1 + cENL1,2#2 + c	ENL	1,2#3			cENL1,2 =37.00_

Regs that require non-conversation agreements to be recorded (ENL3#1)

Other - Plumbing, Mechanical, Fuel and Gas, Private Sewage Disposal



regs that require non-conversation agreements to be recorded (ENES#1)						= 60
Area of enclosure	e limits (aENL3#1)					
Impact adjustme	nt ratio = rENL3#1	=	aENL3#1	=	8,088.53	= 0.37
			aSFHA		21,908.00	
Verified ratio =	Number passed	=	5			= 1.00
	Number sampled	_	5			
cENL3#1 = ENL3	3#1 x rENL3#1 x Verifi	ied rat	tio			cENL3#1 = 22.20
cENL3 = cENL3#	#1 + cENL3#2 + cENL	3#3				cENL3 = 22.20
cENL = cENL1,2	+ cENL3 + cENL _{CAZ}					cENL = 59.20
432.h. Building	g code (BC)					
Adoption of cur	rent editions of the a	appro	priate buildi	ng co	des (BC1)	
IBC - Internationa	al Building Code					= 20
IRC - Internationa	al Residential Code					= 20



cLDP = 60.00

Building Code Effectiveness	Grading Schedule	(BCEGS) classification	on (BC2)
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BCEGS					BC2 = _	30
cBC = BC1 + BC	2				cBC = _	80
432 i Local dra	ainage protection	(I DD)				
43Z.i. Local dia	amage protection	(LDF)				
Regulations requi	ring lowest floor of bu	ildings t	be above the street (LDP	1)	=_	60
Regulations requi	= _					
Regulations provi		=_				
Regulations requi	=_					
LDP = (LDP1 or L	LDP =	60				
Verified ratio =	Number passed	=				4.00
vermeu rado =	Number passed		3		=_	1.00
	Number sampled		3			
cLDP = LDP x Ve	cLDP =	60.00				



432.k. Coastal A Zones (CAZ)

Regulations requiring V Zone standards in A Zones (CAZ#1)

cCAZ_{fema} = 0.5 x CAZ, and

cCAZ#1 = (cCAZfema + cCAZcommunity) x CFSL x Verified ratio

= 275

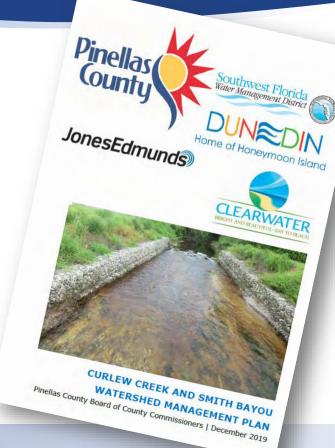
c410	54	x CGA	1.03	=	56
c420	959	x CGA	1.03	=	988
c430	486	x CGA	1.03	=	501
c440	161	x CGA	1.03	=	166
c450	246	x CGA	1.03	= '	253

Watershed Management Plans (WMP)



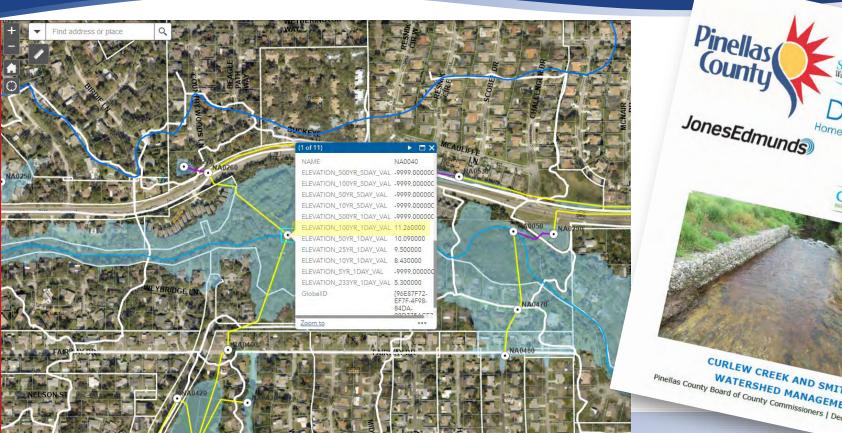
A Lump Sum Fee of: Three Hundred Seventy-Four Thousand Four Hundred Forty-Three and 00/100 Dollars (\$374,443.00) for the Task 2.1.4 – Watershed Management Plan Phase of the PROJECT.

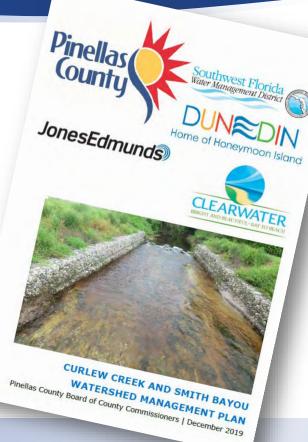
2.1.4.1	Watershed parameterization	\$51,948.00
2.1.4.2	Interim Preliminary Model Review	\$4,596.00
2.1.4.3	Floodplain Analysis	\$62,598.00
2.1.4.4	Public Notification	\$5,176.00
2.1.4.5	Public Meeting	\$5,118.00
2.1.4.6	Revised floodplain analysis and delineation	\$14,962.00
2.1.4.7	Presentation to Governing 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
		2 - 2 - 2 - 2 - 2



Watershed Management Plans (WMP)







Watershed Management Plans (WMP)



Best Management Practices (BMP) Analysis

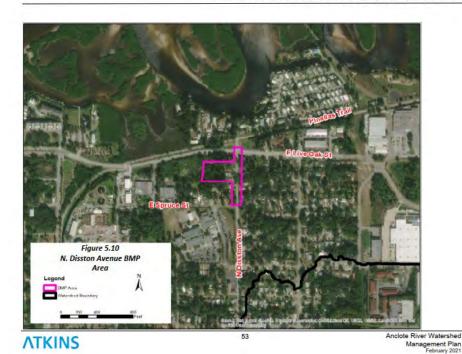




Figure 5.11 N. Disston Avenue Drainage Improvements Conceptual Layout



Effective Model

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

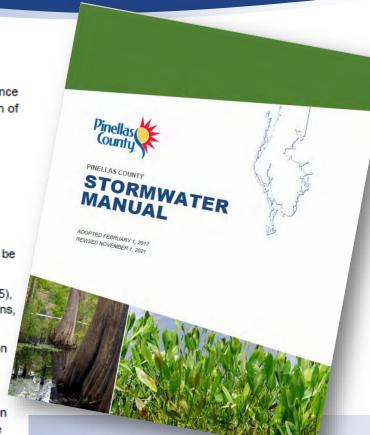
This Chapter provides the design criteria and methodologies for meeting the water quantity and conveyance requirements of the County's Land Development Codes. The criteria are intended to govern the design of new systems as well as the analysis and/or redesign of existing systems.

- 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



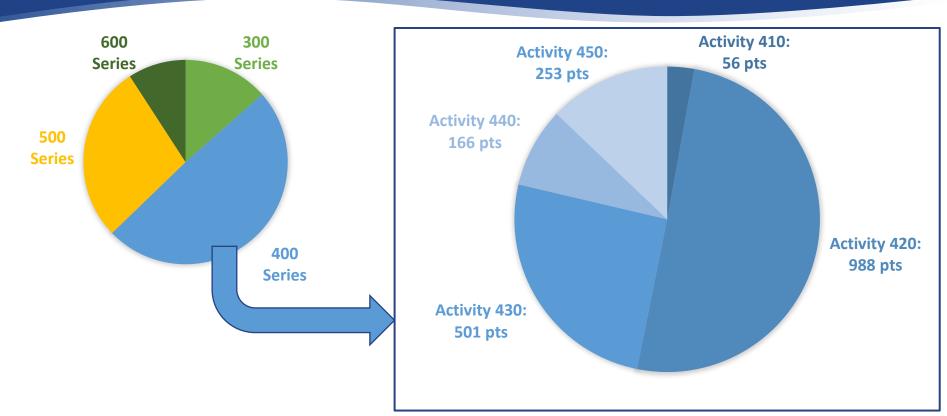
Points Breakdown



Section	Activity	Element	SubElement	Point Received	Points Expected 2022	Pts W/O PC FPs	Difference W/O	Pts W/O PC SW Manual	Difference W/C		Difference W/O LTAs	Pts W/O PC Comp	Difference W/O Comp Plan	Points Availabl	Points Comment	Prerequisite	Perequisite Comments	
432i	430	LDP		60	80			0	80					120	LDP1: 40 pts X 1.5 ft = 60 pts LDP4: 20 pts	Class 4	receive at least 700 combines points (after impact adjustment) between 430 (less FRB) and 420 (a, f, g)	
452a	450	SMR	DS	36	32.5			0	32.5					225	DS1 (14 pts) + DS2 (36 pts) = 50 pts x 0.85 ratio = 42.5 pts DS3 (150 pts) x 0.15 ratio = 22.5 pts DS (42.5 pts + 22.5 pts) = 65 pts DS (42.5 pts + 22.5 pts) = 65 pts DS Total = 65 pts x 0.5 (rational method) = 32.5 pts	Class 4	Must receive combined 100 points (after impact adjustment) for NFOS, NSP, DL1, AMD12, SMR, WMP, ESC, WQ, NFP.	
452a	450	SMR	SZ	60	90			0	90					110		Class 4	Must receive combined 100 points (after impact adjustment) for NFOS, NSP, DL1, AMD12, SMR, WMP, ESC, WQ, NFP.	
452c	450	ESC		10	10			ō	10				CRS	CRS Points			Must receive combined 100 points (after impact adjustment) for NFOS, NSP DEL AMDEL MR, WMP ESC MCD FP.	
452d	450	WQ		20	20			0	20				• Ac	tivity	/ 430: 501 F	oint	Must receive combined 100 points (after in pact adjustment for it FOS, SMR, SMR, ESC, WQ, IFP.	
422a	420	OSP		783	899	696	203						• Ac	tivity	/ 450: 253 F	Point	Sombines points after impact adjustment) between 430 (less FRB)	
							4			-					1450 nts ¥ 0 48 = 696 nts			
422c	420	NFOS	NFOS1	43.7	100.7	83.0	17.7	Point Reco		oints Expecto 2022	ed Pts	w/o PC FF	os Diff	erence PCFPs	W/O Pts W/O PC SV Manual		erence W/O W Manual	
								3,721.	9	4,725.9		4,109.4		616.4	4,493.4		232.5	
							+	5,.22	-	.,. 25.5		.,===.7			31 181 6 - 13 524 4/21 822 8 = 0.81	_	adjustment	

400 Series Points Breakdown



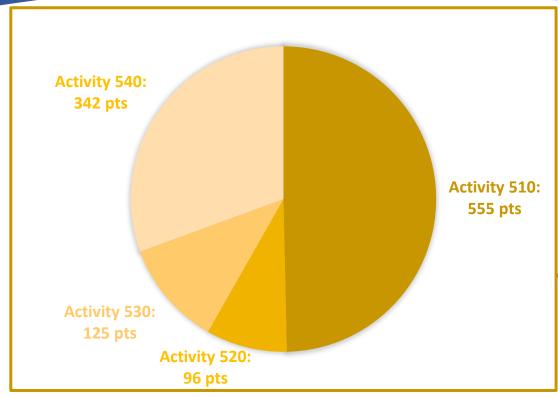


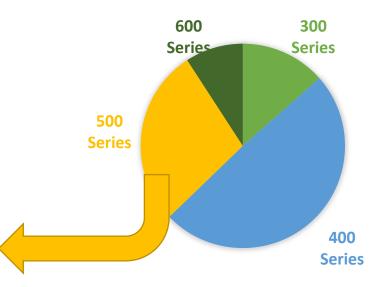


Multi-jurisdictional PPI & LMS

500 Series Points Breakdown

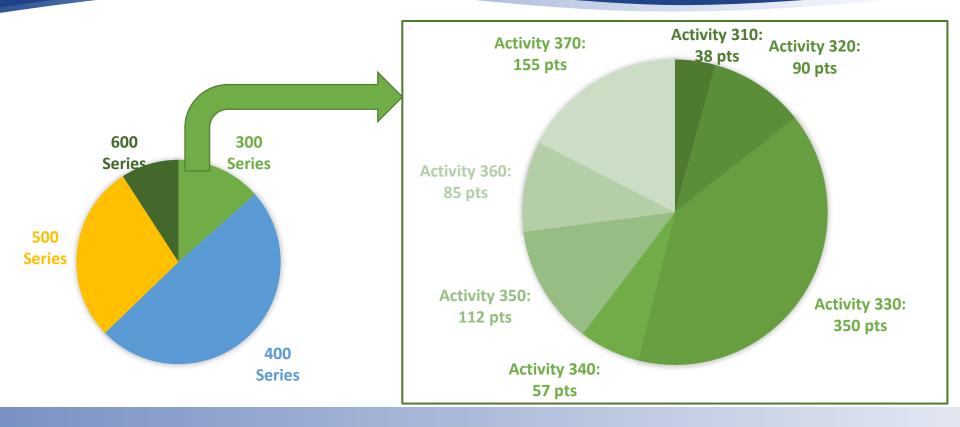






300 Series Points Breakdown







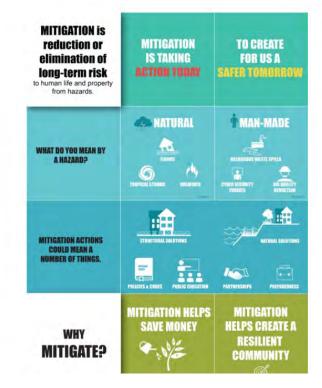
Appendix: Program for Public Information (PPI)

Flood Response Plan (330 FRP) Flood Insurance Improvement Plan (370 FIA, CP, & CPI)





WHAT IS MITIGATION?



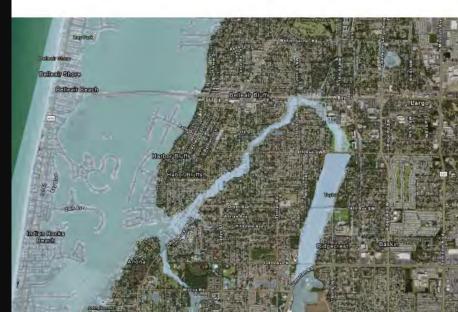
Flood Risk and Mitigation Public Information Working Group (FRMPIWG)

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

PINELLAS COUNTY MULTI-JURISDICTIONAL PROGRAM FOR PUBLIC INFORMATION

Pinellas County | November, 2019







a. Involvment of Office Responsible for Community Planning (4) b. Planning committee of department staff (9) c. Process formally created by the community's governing board (2) 2. Involve the public. (120 Max) a. Planning process conducted through a planning committee (60) b. Public meetings held at the beginning of the planning process (15) c. Public meeting held on draft plan (15) d. Other public information activities to encourage input (Up to 30) 3. Coordinate with other agencies. (35 Max) a. Review of existing studies and plans (required) (5) b. Coordinating with communities and other agencies (Up to 30) 4. Assess the hazard. (Max 35) a. Plan includes an assessment of the flood hazard (REQUIRED) with: (1) A map of known flood hazards (5) (2) A description of known flood hazard (5) (3) A discussion of past floods (5) b. Plan includes assessment of less frequent floods (10) c. Plan includes assessment of areas likely to flood (5)	CRS Step 1. Organize to prepare the plan. (15 Max)	Section/Page	Item Score	Step Total
b. Planning committee of department staff (9) c. Process formally created by the community's governing board (2) 2. Involve the public. (120 Max) a. Planning process conducted through a planning committee (60) b. Public meetings held at the beginning of the planning process (15) c. Public meeting held on draft plan (15) d. Other public information activities to encourage input (Up to 30) 3. Coordinate with other agencies. (35 Max) a. Review of existing studies and plans (required) (5) b. Coordinating with communities and other agencies (Up to 30) 4. Assess the hazard. (Max 35) a. Plan includes an assessment of the flood hazard (REQUIRED) with: (1) A map of known flood hazards (5) (2) A description of known flood hazard (5) (3) A discussion of past floods (5) b. Plan includes assessment of less frequent floods (10) c. Plan includes assessment of areas likely to flood (5) page 4-58 LMS roster 8 12 LMS roster 8 LEMS roster 8 LASPendix A, pages 2-3 to 2-5 60 Appendix A- meeting schedule list 15 page 2-3 30 120 3. Coordinate with other agencies (Up to 30) page 2-3 3. Out 15 page 2-5 page 2-2 19 24 4. Assess the hazard. (Max 35) a. Plan includes an assessment of the flood hazard (REQUIRED) with: (1) A map of known flood hazards (5) (2) A description of known flood hazard (5) (3) A discussion of past floods (5) Page 4-43 page 4-29 page 4-30 page 4-50 page 4-58		page 2-1	4	
c. Process formally created by the community's governing board (2) 2. Involve the public. (120 Max) a. Planning process conducted through a planning committee (60) b. Public meetings held at the beginning of the planning process (15) c. Public meeting held on draft plan (15) d. Other public information activities to encourage input (Up to 30) 3. Coordinate with other agencies. (35 Max) a. Review of existing studies and plans (required) (5) b. Coordinating with communities and other agencies (Up to 30) 4. Assess the hazard. (Max 35) a. Plan includes an assessment of the flood hazard (REQUIRED) with: (1) A map of known flood hazards (5) (2) A description of known flood hazard (5) (3) A discussion of past floods (5) b. Plan includes assessment of less frequent floods (10) c. Plan includes assessment of areas likely to flood (5)			8	
a. Planning process conducted through a planning committee (60) b. Public meetings held at the beginning of the planning process (15) c. Public meeting held on draft plan (15) d. Other public information activities to encourage input (Up to 30) 3. Coordinate with other agencies. (35 Max) a. Review of existing studies and plans (required) (5) b. Coordinating with communities and other agencies (Up to 30) 4. Assess the hazard. (Max 35) a. Plan includes an assessment of the flood hazard (REQUIRED) with: (1) A map of known flood hazards (5) (2) A description of known flood hazard (5) (3) A discussion of past floods (5) b. Plan includes assessment of less frequent floods (10) c. Plan includes assessment of areas likely to flood (5) Appendix A, pages 2-3 to 2-5 Appendix A, pages 2-3 to 2-5 Appendix A meeting schedule list 15 public notice 10-17-19 page 2-3 30 120 4. Appendix A, pages 2-3 to 2-5 Appendix A meeting schedule list 15 public notice 10-17-19 page 2-3 30 120 4. Appendix A meeting schedule list 15 public notice 10-17-19 page 2-3 30 120				12
b. Public meetings held at the beginning of the planning process (15) c. Public meeting held on draft plan (15) d. Other public information activities to encourage input (Up to 30) 3. Coordinate with other agencies. (35 Max) a. Review of existing studies and plans (required) (5) b. Coordinating with communities and other agencies (Up to 30) 4. Assess the hazard. (Max 35) a. Plan includes an assessment of the flood hazard (REQUIRED) with: (1) A map of known flood hazards (5) (2) A description of known flood hazard (5) (3) A discussion of past floods (5) b. Plan includes assessment of less frequent floods (10) c. Plan includes assessment of areas likely to flood (5) Appendix A - meeting schedule list 15 public notice 10-17-19 page 2-3 30 120 Appendix A - meeting schedule list 15 public notice 10-17-19 page 2-5 page 2-2 19 24 Appendix A - meeting schedule list 15 public notice 10-17-19 page 2-3 30 120 Appendix A - meeting schedule list 15 public notice 10-17-19 page 2-3 30 120 Appendix A - meeting schedule list 15 public notice 10-17-19 page 2-3 30 120 Appendix A - meeting schedule list 15 public notice 10-17-19 page 2-3 30 120 Appendix A - meeting schedule list 15 public notice 10-17-19 page 2-3 30 120 Appendix A - meeting schedule list 15 public notice 10-17-19 page 2-3 30 120 Appendix A - meeting schedule list 15 public notice 10-17-19 page 2-3 30 120 Appendix A - meeting schedule list 15 public notice 10-17-19 page 2-3 30 120 Appendix A - meeting schedule list 15 public notice 10-17-19 page 2-2 19 24	2. Involve the public. (120 Max)			
c. Public meeting held on draft plan (15) d. Other public information activities to encourage input (Up to 30) 3. Coordinate with other agencies. (35 Max) a. Review of existing studies and plans (required) (5) b. Coordinating with communities and other agencies (Up to 30) 4. Assess the hazard. (Max 35) a. Plan includes an assessment of the flood hazard (REQUIRED) with: (1) A map of known flood hazards (5) (2) A description of known flood hazard (5) (3) A discussion of past floods (5) b. Plan includes assessment of less frequent floods (10) c. Plan includes assessment of areas likely to flood (5) public notice 10-17-19 page 2-3 30 120 15 15 15 16 17 18 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10	a. Planning process conducted through a planning committee (60)	Appendix A, pages 2-3 to 2-5	60	
d . Other public information activities to encourage input (Up to 30) page 2-3 3. Coordinate with other agencies. (35 Max) a. Review of existing studies and plans (required) (5) b. Coordinating with communities and other agencies (Up to 30) 4. Assess the hazard. (Max 35) a. Plan includes an assessment of the flood hazard (REQUIRED) with: (1) A map of known flood hazards (5) (2) A description of known flood hazard (5) (3) A discussion of past floods (5) b. Plan includes assessment of less frequent floods (10) c. Plan includes assessment of areas likely to flood (5) page 4-58 30 120 page 2-3 page 2-5 page 2-5 page 2-5 page 2-2 19 24	b. Public meetings held at the beginning of the planning process (15)	Appendix A - meeting schedule list	15	
3. Coordinate with other agencies. (35 Max) a. Review of existing studies and plans (required) (5) b. Coordinating with communities and other agencies (Up to 30) 4. Assess the hazard. (Max 35) a. Plan includes an assessment of the flood hazard (REQUIRED) with: (1) A map of known flood hazards (5) (2) A description of known flood hazard (5) (3) A discussion of past floods (5) b. Plan includes assessment of less frequent floods (10) c. Plan includes assessment of areas likely to flood (5) page 4-58 page 2-5 page 2-2 19 24	c. Public meeting held on draft plan (15)	•	15	
a. Review of existing studies and plans (required) (5) b. Coordinating with communities and other agencies (Up to 30) 4. Assess the hazard. (Max 35) a. Plan includes an assessment of the flood hazard (REQUIRED) with: (1) A map of known flood hazards (5) (2) A description of known flood hazard (5) (3) A discussion of past floods (5) b. Plan includes assessment of less frequent floods (10) c. Plan includes assessment of areas likely to flood (5) page 4-58 page 4-58 5 page 4-79	d . Other public information activities to encourage input (Up to 30)	page 2-3	30	120
a. Plan includes an assessment of the flood hazard (REQUIRED) with: (1) A map of known flood hazards (5) (2) A description of known flood hazard (5) (3) A discussion of past floods (5) b. Plan includes assessment of less frequent floods (10) c. Plan includes assessment of areas likely to flood (5) page 4-30 page 4-58 5	a. Review of existing studies and plans (required) (5)			24
(2) A description of known flood hazard (5) (3) A discussion of past floods (5) b. Plan includes assessment of less frequent floods (10) c. Plan includes assessment of areas likely to flood (5) page 4-29 page 4-52 page 4-58 5 page 4-58 5	·			
(3) A discussion of past floods (5) b. Plan includes assessment of less frequent floods (10) c. Plan includes assessment of areas likely to flood (5) page 4-52 page 4-50 page 4-58 5	(1) A map of known flood hazards (5)	page 4-43	5	
b. Plan includes assessment of less frequent floods (10) c. Plan includes assessment of areas likely to flood (5) page 4-30 page 4-58 5	(2) A description of known flood hazard (5)	page 4-29	5	
c. Plan includes assessment of areas likely to flood (5)	(3) A discussion of past floods (5)	page 4-52	5	
c. Transmittades assessment of areas intoly to need (c)	 b. Plan includes assessment of less frequent floods (10) 	page 4-30	10	
	· · · · · · · · · · · · · · · · · · ·	page 4-58	5	
	d. The plan describes other natural hazards (REQUIRED FOR DMA) (5)	section 4	5	35



47

Assess the problem. (Max 5)	ie problem. (Max 52)	2)
---	----------------------	----

a. Summary of each hazard identified in the hazard assessment and
their community impact (REQUIRED) (2)

- b. Description of the impact of the hazards on: (Max 25)
- (1) Life, safety, health, procedures for warning and evacuation (5)
- (2) Public health including health hazards to floodwaters/mold (5)
- (3) Critical facilities and infrastructure (5)
- (4) The community's economy and tax base (5)
- (5) Number and type of affected buildings (5)
- **c. Review of all damaged buildings/flood insurance claims (5)
- d. Areas that provide natural floodplain functions (5)
- e. Development/redevelopment/Population Trends (7)
- f. Impact of future flooding conditions outlined in Step 4, item c (8)

** RL Category: C

6.	Set	goals.	(rec	uired)) (2	١

- 7. Review possible activities. (Max 35)
 - a. Preventive activities (5)
 - b. Floodplain Management Regulatory/current & future conditions (5)
 - c. Property protection activities (5)
 - d. Natural resource protection activities (5)
 - e. Emergency services activities (5)
 - f. Structural projects (5)
 - g . Public information activities (5)

section 4	2
page 4-110 and 4-111	5
page 4-59, 4-98	5
page 4-71	5
page 4-67	5
page 4-63	5
page 4-35	5
page 4-20 to 4-26	7
page 4-47 tp 4-51	8
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Table 3.1

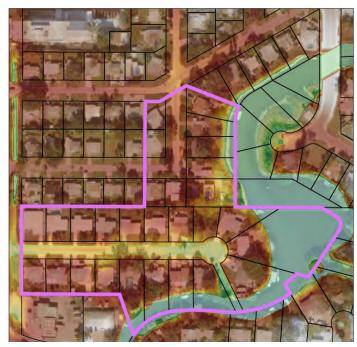
page 3-4	1	
page 3-11	1	
page 3-6	1	
page 3-6	1	
page 3-5	1	
page 3-8	1	
page 3-7	1	7



- a. Actions must be prioritized (required)
 - 1. Recommendations for activities from two of the six categories (10)
 - 2. Recommendations for activities from three of the six categories (20)
 - 3. Recommendations for activities from four of the six categories (30)
 - 4. Recommendations for activities from five of the six categories (45)
- b. Post-disaster mitigation policies and procedures (10)
- c. Action items for mitigation of other hazards (5)
- 9. Adopt the plan. (2)
- 10. Implement, evaluate and revise.(Max 26)
 - a. Procedures to monitor and recommend revisions (required) (2)
 - Same planning committee or successor committee that qualifies under Section 511.a.2 (a) does the evaluation (24)

Association D	45	
Appendix D	45	
Appendix D	5	50
4/21/2020	2	2
page 2-9	2	
page 2-9	24	26
	FMP=	325





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 dishcarges into bear creek, tidally influenced and compound flooding with precip; no blockages

512.b. Repetitive loss area analysis (RLAA)

Repetitive Loss Area Analysis (RLAA)

140

The number of buildings addressed in credited area analyses (bAA)

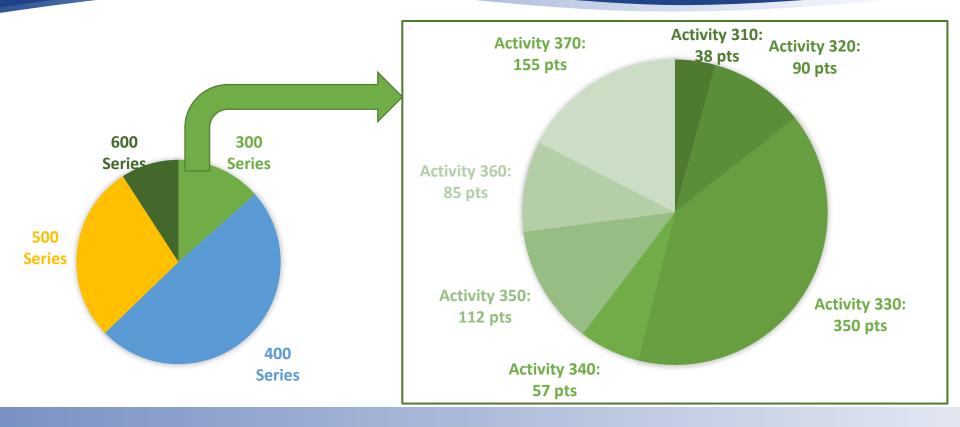
The number of buildings in the community's repetitive loss areas (bRLA)

1.0

cRLAA = 140.00

300 Series Points Breakdown





Activity 330 – 350 Points



		330 Outreach Project (OP) Worksheet												370 CPI															
	Outreach				Points					Topics		7. PPI		9. PPI	10. PPI	Times per Year	FIA			OP			Multipliers		TOP+PPI	FIA PPI(OP) STK(OP) OP+PPI +STK			
	Projects	Stakeholder	Target Audience(s)	Documentation	per Topic	1. Hazard	2. Insure	3. People	4. Property	5. Build	6. Natural	100	8. PPI Pet Prep	Flood	Understa nd Fl	or # of locations	Desire	FIA Count	Count	Points	PPI?	PPI (OP) Points	STK?	STK (OP) Points	+STK Points	FIA Points	PPI (OP) Points	STK (OP) Points	+STK Points
OP#1	RLA Letter Audience 1	None	RLAA	DF1 Finellas FL. Area Lett er ISO approved 2020Edit	6	у	у	у	у	у	у	у	у	у	у	1	Y	1	9	54	Υ	21.6	N	0.0	75.6	12	4.8	0.0	16.8
OP#2	Flood Guide available at County Buildings	None	Customers of Pinellas County Services	DEC ADA Your Guide to Flooding in Pinellas Count updf	1	у	у	у	у	у	у	у	у	у	у	5	Y	1	9	45	Y	18.0	N	0.0	63.0	10	4.0	0.0	14.0
OP#3	Flood Guide available at County Libraries	The Pinellas Public Library Cooperative (PPLC)	Customers of Pinellas County Libraries	DF2 ADA Your Guide to Flooding in Pinellas Count updf	1	у	у	у	у	у	у	у	у	у	у	25	Y	1	9	225	Υ	90.0	Υ	67.5	382.5	50	20.0	15.0	85.0
OP#4a	Hurricane Guide 2021	None	No target audience	OP\OP4a_5a_All_Hazard Guide_2021-22_ADA.pdf	1	y	у	y	y	y	у	y	у	y	y	5	Y	1	9	45	Υ	18.0	N	0.0	63.0	10	4.0	0.0	14.0
ОР#4ь	Hurricane Guide 2021 - ESOL (Spanish)		Spanish-Speaking Residents	OP\OP4b_5b_All_Hazard_ Guide_2021- 22_Spanish_ADA.pdf	1	у	у	y	у	у	у	у	у	у	у	5	Υ	1	9	45	Υ	18.0	N	0.0	63.0	10	4.0	0.0	14.0
OP#4c	Hurricane Guide 2021 - ESOL (Vietnamese)	None	Vietnamese-Speaking Residents	OP\OP4c_5c_All_Hazard_ Guide_2021- 22_Vietnamese_ADA.pdf	1	у	у	у	у	у	у	у	у	у	у	5	Y	1	9	45	Υ	18.0	N	0.0	63.0	10	4.0	0.0	14.0
OP#5a	Hurricane Guide 2021 Available at County Libraries	The Pinellas Public Library Cooperative (PPLC)	No target audience	OP\OP4a_5a_All_Hazard_ Guide_2021-22_ADA.pdf	1	у	у	у	у	у	у	у	у	у	у	25	Y	1	9	225	Υ	90.0	Y	67.5	382.5	50	20.0	15.0	85.0
OP#5b	Hurricane Guide 2021 - ESOL (Spanish) Available at County Libraries		Spanish-Speaking Residents	OPIOP4b_5b_All_Hazard_ Guide_2021- 22_Spanish_ADA.pdf	. 1	у	у	у	у	у	у	у	у	у	у	25	Y	1	9	225	Y	90.0	Y	67.5	382.5	50	20.0	15.0	85.0

Activity 330 – 350 Points



332 Elements

332.a. Outreach projects (OP)

Number of OP Projects:

Outreach projects (ΣΟΡ)

 $COP = \Sigma (OP + PPI(OP) + STK(OP))$

332.b. Flood response preparations (FRP)

Number of FRP Projects:

Flood response preparations (ΣFRP)

 $cFRP - \Sigma(FRP + PPI(FRP))$

332.c. Program for Public Information (PPI)

Program for Public Information, ΣΡΡΙ(ΟΡ)

Program for Public Information, ΣΡΡΙ(FRP)

332.d. Stakeholder delivery (STK)

Stakeholder delivery, ΣSTK(OP)

- 12

200

cOP - 298.00

- 4

cFRP - 70.00

- 80.00

20.00

- 18.00

Activity 370 – 155 Points



Flood Insurance Promotion Worksheet											
		A. Points	B. Number of	CPI1=			Multiplie	rs			
	Outreach Projects	per Topic	times project is delivered	AxBx2	PPI?	PPI (CPI)	STK?	STK (CPI)	CPI + PPI + STK		
CPI#1	Repetitive Loss Brochure	2	1	4	у	1.6		0.0	5.6		
CPI#2	OP#1 Brochure a 5 locations	1	5	10	у	4.0		0.0	14.0		
CPI#3				0		0.0		0.0	0.0		
CPI#4				0		0.0		0.0	0.0		
CPI#5	UtiliTrak Newsletter	2	4	16	у	6.4		0.0	22.4		
CPI#6			-	0		0.0		0.0	0.0		
CPI#7	Real Estate Agents brochure	6	1-	12	у	4.8	у	3.6	20.4		
CPI#8	2)	0	- 10	0.0		0.0	0.0		
CPI#9				0		0.0		0.0	0.0		
CPI#10				0		0.0		0.0	0.0		
CPI#11			b	0		0.0		0.0	0.0		
CPI#12				0		0.0		0.0	0.0		
CPI#13				0		0.0		0.0	0.0		
CPI#14				0		0.0		0.0	0.0		
CPI#15			-	0		0.0		0.0	0.0		
CPI#16				0		0.0		0.0	0.0		
CPI#17				0		0.0		0.0	0.0		
CPI#18				0		0.0		0.0	0.0		
CPI#19	7 = -	1		0		0.0		0.0	0.0		
CPI#20				0		0.0		0.0	0.0		
	CPI = \(\sum_{(CPI + PPI + STK)} = \)	60	ΣCPI:	42	ΣPPI:	16.80	ΣSTK:	3.60	62.40		

Activity 370 – 155 Points



-		_				
-	70		0.0	ne	200	

372.a. Flood insurance coverage assessment (FIA)

Flood insurance coverage assessment (FIA)

- 15

372.b. Coverage improvement plan (CP)

Coverage improvement plan (CP)

- 30

372.c. Coverage improvement plan implementation (CPI)

Coverage improvement plan implementation (Σ CPI)

- 84.00 - 33.60

Program for Public Information, ΣΡΡΙ(370) Stakeholder delivery, ΣSTK(370)

7.20

- 60.00

372.d. Technical assistance (TA)

Technical assistance (TA)

35

1.00

cTA - 35.00

372.g. State requirement for continuing education (SCE)

State requirement for continuing eduction (SCE)

- 15

Flood Insurance Assistance

845 180th Ave E

Maderia Beach

1545 Citrine Trl

150 Annwood Rd

City of St. Petersburg

Lions Club Beach House

Lions Club Beach House

923 Ivanhoe Way S

14033 E Parsley Dr

14033 E Parsley Dr

Maderia Beach

847 180th Ave

Manatee Co

Jurisdiction (City

Redington Shores

Manatee Co

City of St.

Petersburg

Maderia Beach

Treasure Island

Tarpon Springs

Pinellas county

Treasure Island

Pinellas county

St. Petersburg

Pinellas county

Pinellas county

Maderia Beach

Maderia Beach

Maderia Beach

Redington Shores

Palm Harbor



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.

 $\overline{}$

12/31/2019 Insured

4/29/2020 realtor

5/4/2020 Insured

5/19/2020 Insured

5/28/2020 Insured

7/13/2020 Insured

8/28/2020 Insured

12/2/2020 Insured (Hollis)

12/17/2020 Community (Lisa)

12/19/2020 Brian Murray

1/4/2021 Brian Murray

12/21/2020 Anna

6/17/2020 community (LisaF) Pinellas co

8/5/2020 community (LisaF) Pinellas co

12/17/2020 Community (Lisa) Pinellas co

3/6/2020

3/5/2020 Insured

Sincerely,

Ashley Tharp

Ashley Tharp AIS, AINS, ANFI, CFM X

Corporate Agent Training Manager

800-820-3242 x 5510

Ashley.Tharp@weareflood.com

The flood insurance providers on the <u>Pinellas County Program for Public</u> Information (PPI). Committee serve as insurance advocates to the Count to advise people who have questions about flood insurance. The following PPI volunteers are prepared to answer questions you may have about floor insurance and the National Flood Insurance Program (NFIP). There is no Harr & Associates Insurance, Inc.

- Kimberly Harr (727) 393-9146 - <u>Kim@harrins.com</u>
- Insurance Resources, LLC
- Brian T. Ford, CPCU, CIC, MBA, ARM (727) 345-0242 - <u>BFord@InsuranceResources.com</u>
- Wright Flood
- Ashley Tharp, Als, AINS, ANFI, CFM, Corporate Agent Training Manager (800) 820-3242 x 5510 - Ashley Tharp@weareflood.com

Rating info/EC needed Lisa Foster Flood Insurance Requirement real estat for unit owners Rating info/policy review -Lions club Member COVID 19 FEMA guidance quote website Flood zone risk factors website wehsite phone rating/handling rating/policy information Lions club Member email CBRA insurance website email Cost of flood insurance Lisa Foster phone Claim handling Lisa Foster nhone Claim handling Lisa Foster email Rep Loss/Claim Handling Lisa Foster email Claim handling Lisa Foster email Claim handling website phone Claim handling Lisa Foster phone

Referred by

website

CeCe

Topics/Info

Rating info/map changes

Flood policy



Flood Warning and Response



Pinellas County Comprehensive Emergency Management Plan



612.a. Flood threat recognition system (FTR)

FTR 1

(a) Receives/provides	flood	warning	is on	24/// 365	basis	, (yes or no)			=	
(b) Level 1: Manual F7	R sy	stem							=	
(c) Level 2: Automated	d floo	d alarm	syste	m					=	
(d) Level 3: Automated	d floo	d warnin	g sys	tem					=	75
Flood threat recognition s	ysten	(FTR)							=	75
Number of buildings that I	enet	it from th	ne lev	el of the f	lood t	hreat recognition	system (bFTR)			
Number of buildings in the	Spe	cial Floo	d Ha	zard area	(bSF) -				
Impact adjustment ratio	=			bFTR	=_	30,579			=	1.00
		rFTR	=	bSF		18,915				
cFTR = FTR x rFTR								cFTR 1	=	75.00

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612.b. Emergency warning dissemination (EWD)

EWD1	
(a) Scripted messages and staff guidance (EWD1)	= 10
(b) Public message content (EWD2)	= 10
(c) Fixed outdoor voice system or fixed-siren system (EWD3)	
(d) (EWD4) EITHER	
a. Agencies responsible for door-to-door, or	
b. Alert routes, procedures, staff and equipment	-
(e) Federally approved EAS with pre-scripted messages (EWD5)	= 10
(f) Telephonic warning/enhanced electronic notification (EWD6)	= 15
(g) TV broadcast or message scroll notifications (EWD7)	= 10
(h) Other forms of public warning (EWD8)	= 15
(i) Facility tone alert or NOAA weather radios (EWD9)	= 10
(j) Approved/credited inundation map(s) posted online (EWD 10)	= 10
Emergency warning dissemination (EWD)	= 75
Number of buildings that benefit from the flood emergency warnings (bEWD)	
Number of buildings in the Special Flood Hazard area (bSF)	
Impact adjustment ratio =bEWD =30,579	= 1.00
rEWD = bSF 18,915	
cEWD = EWD x rEWD	cEWD 1 = 75.00



612.c. Flood response operations (FRO)

FRO _ 1	
(a) Developed scenarios for possible flood levels (FRO1)	= 15
(b) Up to 35 points, if plan includes (FRO2)	
a. Identified basic flood tasks and responsible staff	= 5
b. Estimated number of personnel for tasks	= 5
c. Estimated time required for each task	= 5
d. Damage assessment tasks tied to SD/SI tracking	= 5
e. Identification of FPM disaster response team	= 5
f. List of equipment/supplies needed and how obtained	= 5
(c) Mandatory specific actions keyed to flood levels (FRO3)	= 25
(d) Special needs database and support plan (FRO4)	= 10
(e) Up to 15 points, if plan includes (FRO5)	
a. Evac procedures and reoccupation of SFHA structures	= 5
b. SD assessment procedures prior to permitting	= 5
c. Implementation of HMP flood loss measures	= 5
(f) Property protection measures in response and recovery phases (FRO6)	= 20
Flood response operations (FRO)	= 115
Number of buildings in the area covered by the flood response operations (bFRO)	
Number of buildings in the Special Flood Hazard area (bSF)	
Impact adjustment ratio = rFRO = bFRO = 30,579	= 1.00
bSF 18,915	
cFRO = FRO x rFRO	cFRO 1 = 115.00





cFTR = cFTR1 + cFTR2 + cFTR3

cEWD = cEWD1 + cEWD2 + cEWD3

cFRO = cFRO1 + cFRO2 + cFRO3

612.d. Critical facilities planning (CFP)

Plan includes contacts of and early notification to critical facilities (CFP1)

Critical facilities have a flood warning and response plan (CFP2)

CFP = CFP1 + CFP2

612.e. StormReady community (SRC)

StormReady community (SRC)

612.f. TsunamiReady community (TRC)

TsunamiReady community (TRC)

614 Credit Calculation

c610 = cFTR + cEWD + cFRO + CFP + SRC + TRC

cEWD = 75.00 cFRO = 115.00

cFTR = 75.00

= 25 = 50 FP = 75

= 25



Pinellas County

STORM READY RECOGNITIC

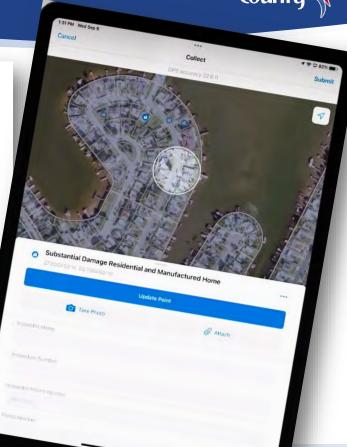


Substantial Damage Plan



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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?