



Lakes & Waterways Board Regular Meeting

Agenda

June 11, 2024 @ 12:00 PM

City Hall Commission Chambers
401 S. Park Avenue

welcome

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"If a person decides to appeal any decision made by the Board with respect to any matter considered at this hearing, a record of the proceedings is needed to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based." (F.S. 286.0105).

please note

Times are projected and subject to change.

1. Call to Order**2. Consent Agenda**

- a. Approve the minutes of May 14, 2024 meeting 1 minute

3. Public Comments (for items not on the agenda): Three minutes allowed for each speaker**4. Public Hearings (Public participation and comment on these matters must be in person.)****5. Action Items****6. Non-Action Items**

- a. CRS Presentation 15 Minutes

7. Staff Updates

- a. Winter Park Police Department 10 Minutes
- b. Lakes Management 10 Minutes
- c. Past & Upcoming Events 5 Minutes

- Lakes Event - 5/11 9am @ Lakes Knowles & Wilbar
- Lakes Event - 5/18 9am @ Lake Chelton
- Lakes Event - 6/8 9am @ Lake Bell
- Board Orientation - 6/13 6pm @ Commission Chambers
- Paddleboard Clean-up - 6/15 9am @ Kraft Azalea
- Board Appreciation - 6/20 5:30pm @ WP Pines
- Lakes Event - 6/22 9am @ Lakes Temple & Tuscany
- Vermicomposting Class - 6/27 6pm @ WP Library
- Filth of July Clean-up - 7/6 9am @ Howell Branch Preserve

- d. Stormwater Management 10 Minutes

8. Board Comments

- a. Discussion of Public Comments Received 5 Minutes

9. Upcoming Agenda Items

- a. Discussion of Upcoming Agenda Items 5 Minutes

10. Adjournment



Lakes & Waterways Board

agenda item 2.a

item type

Consent Agenda

meeting date

June 11, 2024

prepared by**approved by****subject**

Approve the minutes of May 14, 2024 meeting

motion | recommendation**background****alternatives | other considerations****fiscal impact****attachments**

1. LWB-mins-2024-05-14 DRAFT



Lakes & Waterways Board Regular Meeting Minutes

May 14, 2024 at 12:00 PM

City Hall Commission Chambers
401 S. Park Avenue

Present

Ed Webman, William H. Swartz Sr., Justin J. Vermuth, Warren Bloom, David F. March

Absent

George T. Vietor, Pamela L. Saffran

Staff Present

Director of Natural Resources and Sustainability Gloria Eby, Assistant Director of Public Works Don Marcotte; Public Works Engineer Shannon Monahan, Lakes Manager Joseph Cordell; Sergeant Luke Hofer; Administrative Assistant Victoria Tabor

1. Call to Order

Justin Vermuth called the meeting to order at 12:01 p.m.

2. Consent Agenda

- a. Approve the minutes of April 9, 2024

Motion made by Justin Vermuth to approve the minutes, seconded by David March . Motion carried unanimously with a 5-0 vote.

3. Public Comments (for items not on the agenda):

4. Public Hearings (Public participation and comment on these matters must be in person.)

- a. Seawall Application (SAP-2024-0006) 1218 Alabama Dr.

Mr. Cordell presented a permit application for a full renovation seawall, located on Venetian canal at 1218 Alabama Dr. The wall will be set 4 feet into the ground. Dredging of sand will take place in a 2 x 10-foot area. Applicant Sheila Cichra explained

the dredging process.

Motion made by Mr. Webman to approve seawall application; seconded by Mr. Vermuth. Motion carried unanimously with a 5-0 vote.

- b. Boathouse/Dock Application (BLDR-2024-0304) 1218 Alabama Dr.

Mr. Cordell presented the application for a new boat dock at 1218 Alabama Drive.

Motion made by Mr. Swartz Sr. to approve the new boat dock application; seconded by Mr. Vermuth. Motion carried unanimously with a 5-0 vote.

5. Action Items

6. Non-Action Items

7. Staff Updates

- a. Winter Park Police Department

Officer Hofer covered the activities of March and April, 2024: 20 patrols on the Chain of Lakes; 155 safety inspections on vessels; 23 citations were issued primarily for safety equipment; helped with 160 boats and towed 2 boats to assist. A Tent will be set up at the Farmer's Market next weekend to educate on boating safety.

- b. Lakes Management

Joey Cordell presented electrofishing survey on the Chain of Lakes with FWC. Healthy largemouth bass and a good population of feeder fish were found in the lakes. Mr. Cordell explained that Electrofishing is when fish are shocked by electrodes, and then scooped up for analysis and placed back.

Nanobubble unit was installed at Lake Midget. It will increase the oxygen in the lake and digest organic matter. Ms. Eby stated that units are very expensive and a grant will be requested.

One large Hydrilla treatment completed at Lake Sue and monthly spot treatments continue.

Alligator weed is the plant of the month. It is harmful, invasive, can clog ditches and cause flooding issues.

Messaging was sent to the community for alligator awareness. Mr. Webman stated alligators are more frequent in construction areas. Construction workers may be

unintentionally feeding the gators by throwing out chicken bones. Mr. Webman suggested signage. Mr. Cordell advised that he spoke with the Building department and will follow up with them.

Mr. Cordell announced the volunteer shoreline event at Lake Sylvan. If not enough participation to access the lake, then event will be moved to Lake Chelton.

Mr. Cordell provided water quality report through December for the quarterly lakes.

c. Hurricane Season Preparedness

Hurricane Guide: [Hurricane Preparedness Guide Link](#)

Ms. Eby explained that staff came together after the last hurricane events and discussed outcomes:

The first lesson learned was the challenge of getting laboratory samples. Multiple labs are now on standby allowing samples to be returned and turned around quickly. Also, in-house staff can pull some bacterial sampling.

On the fifth Chain of Lakes, a high water elevation was established at 66.1 feet.

At Dinky Dock park, gates were installed to shut down access to the ramp.

Advanced alert notifications have been added mainly to the city flood hazard areas.

The vulnerability assessment study is still underway. This study identifies vulnerable critical infrastructure.

There are two guides supplied throughout the City, the Hurricane Preparedness guide and the Adaptive Flood Management guide.

Since the last hurricane season, Telemetry Lake Elevation was installed to track lake elevation. Grass cart barriers were upgraded and as part of preparedness and restoration, funding was received from the National Resources Conservation Services (NRCS) for major outfall work. Several weirs will be repaired as part of restoration.

The first project under NRCS was located at Winter Park 18 and was completed. Ms. Eby informed the board of the Howell Creek Stabilization project and explained the importance of participating with regional agencies in the coordination of basin management.

Mr Vermuth asked Ms. Eby if the City has a Solar Co-op. Ms. Eby stated a regional Co-op program with Orange County and Eatonville was set up. The information is on the

Sustainability website.

d. Past and Upcoming Events

- Great American Clean-Up - 4/6
- Killarney Elementary Family Night - 4/17
- Earth Day Block Party - 4/27 @ Ward Park
- Lakes Event - 5/11 @ Lake Knowles & Wilbar
- Lakes Event - 5/18 9am @ Lake Sylvan
- Introduction to Composting Class - 5/16 6pm @ WP Library
- Board Appreciation - 6/20 6:30pm @ WP 18
- Introduction to Vermicomposting Class - 6/27 6pm @ WP Library

Ms. Eby emphasized Board Appreciation Day on June, 20 at 6:30pm at Winter Park 18.

e. Stormwater Management

Ms. Monahan reviewed the CIP and emphasized the outfall in association with Seminole County.

Seven Oaks Park project pictures were shown displaying the stormwater runoff system.

8. Board Comments

9. Upcoming Agenda Items

10. Adjournment

The meeting adjourned at 12:52 p.m.

Approved by the board on _____
/s/ Bahiyyah Layton, Board Coordinator



Lakes & Waterways Board

agenda item 6.a

item type

Non-Action Items

meeting date

June 11, 2024

prepared by

Victoria Tabor, Administrative Coordinator II

approved by

Victoria Tabor, Administrative Coordinator II

subject

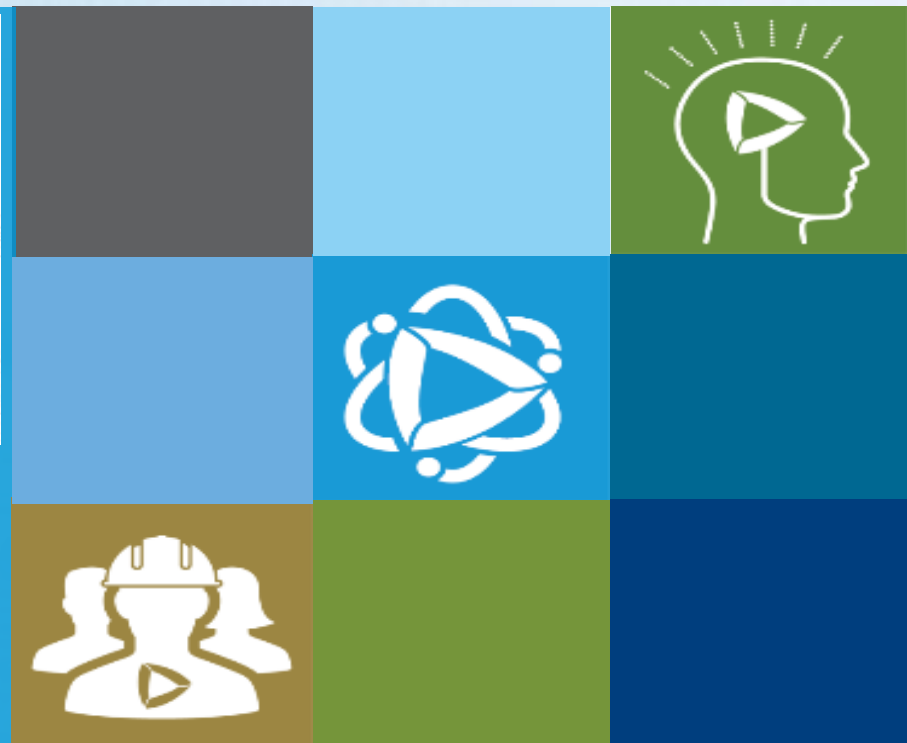
CRS Presentation

motion | recommendation**background****alternatives | other considerations****fiscal impact****attachments**

1. CRS Presentation



COMMUNITY RATING SYSTEM PARTICIPATION ANALYSIS



Presentation Outline

- What is CRS?
- CRS Participation Process
- CRS Data Collection
- CRS Participation Analysis, Costs & Benefits
- Participating Neighboring Communities

What is CRS?

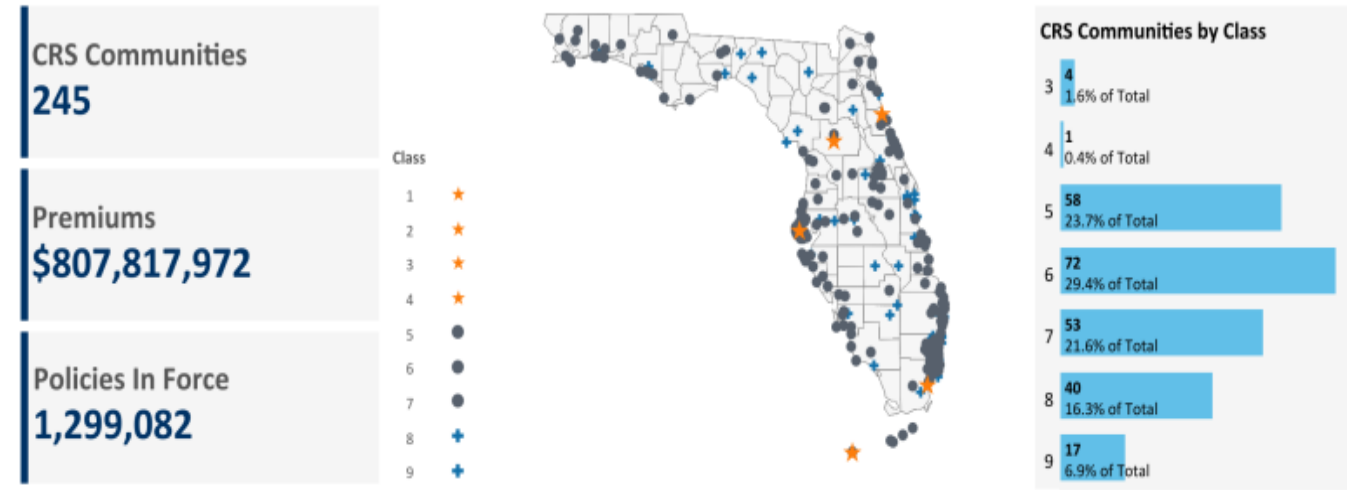
What is CRS?

- Program backed by FEMAs NFIP
- In Florida: 245 participating communities
- Benefits
- Premium Discounts participating communities
- Supports the NFIP
- Comprehensive floodplain management

The CRS in Florida

October 2023

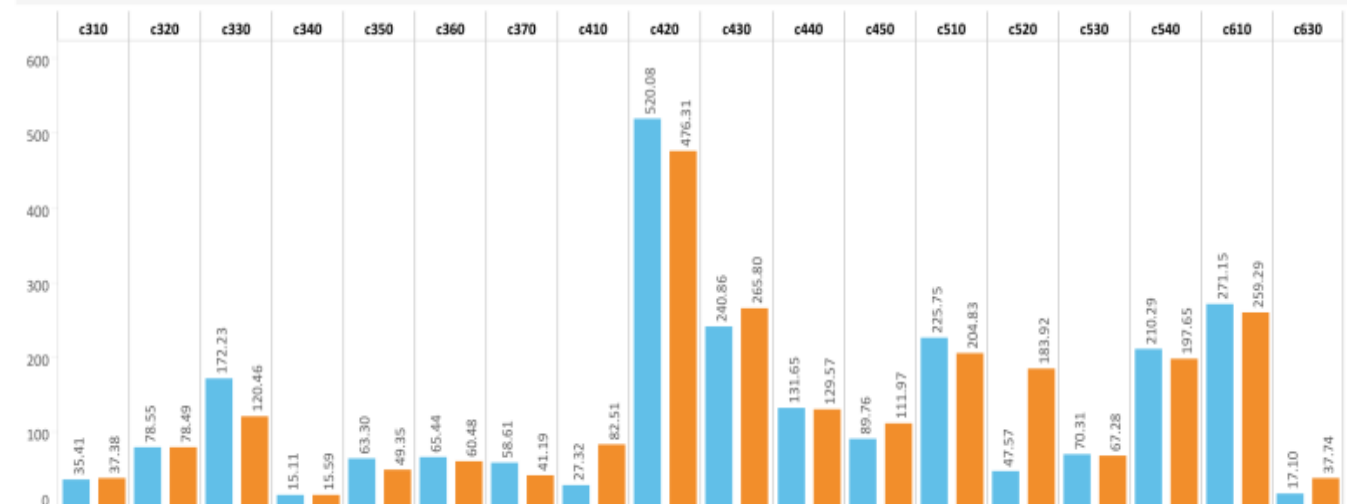
Insurance information pulled from FEMA's Community Information System



Florida vs. National

Average Credit

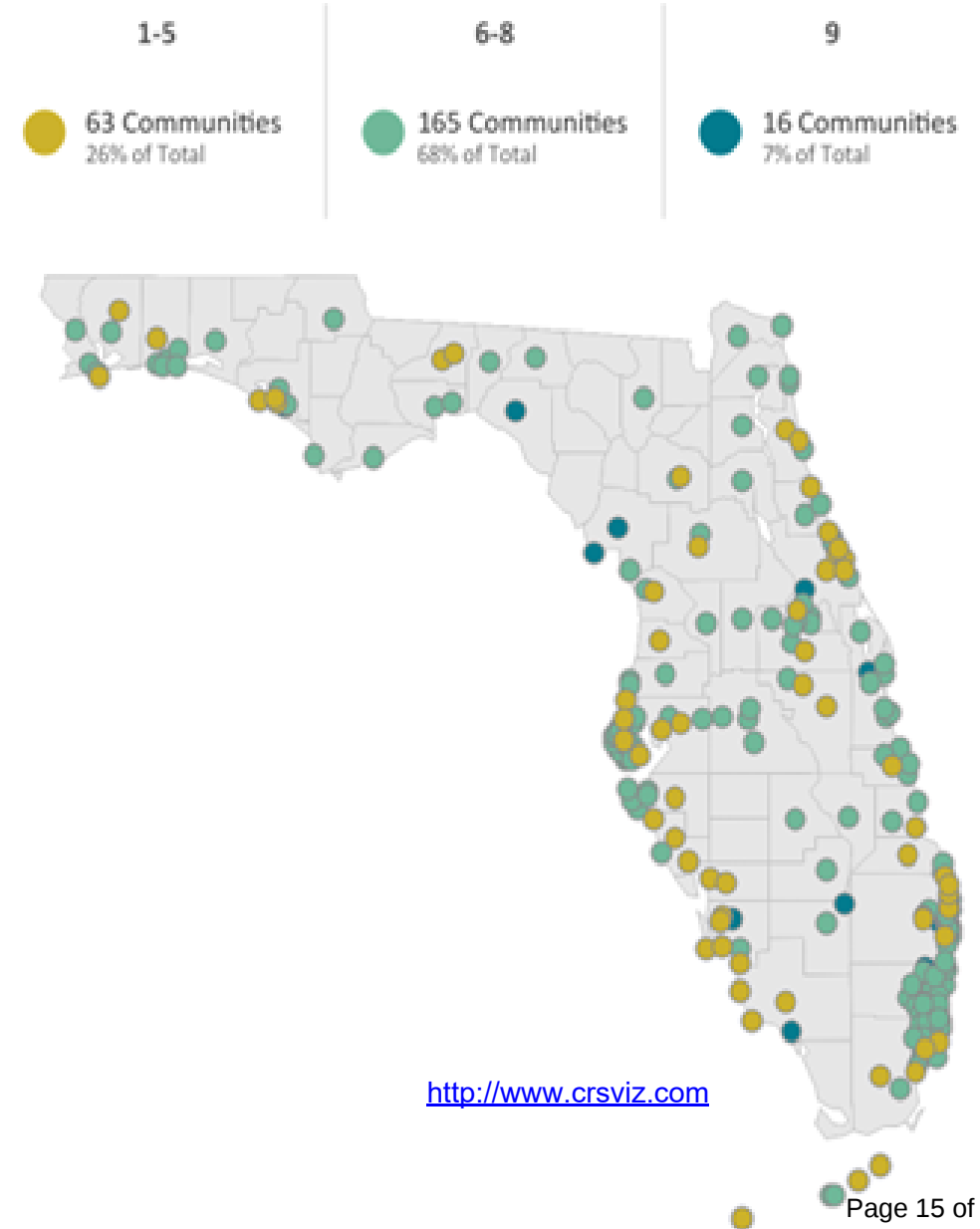
Hover for CRS Activity Glossary



What is CRS?



- Points assigned based on:
 - Relevant activities
 - Meeting metrics of the individual sub-activities
- Activity Examples:
 - Public Information
 - Mapping and Regulation
 - Flood Damages Reduction
- Participating communities' classification 1-10
- Lower classification results in a larger discount
- Per-Policy discounts 5-45% based on classification



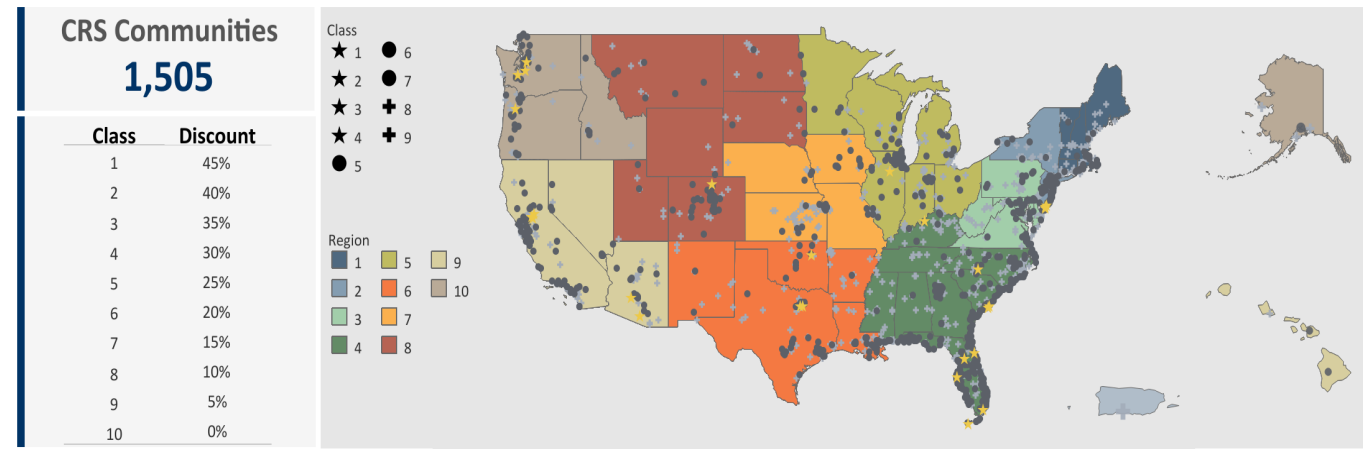
CRS Participation Process

CRS Participation Process – Initial Application

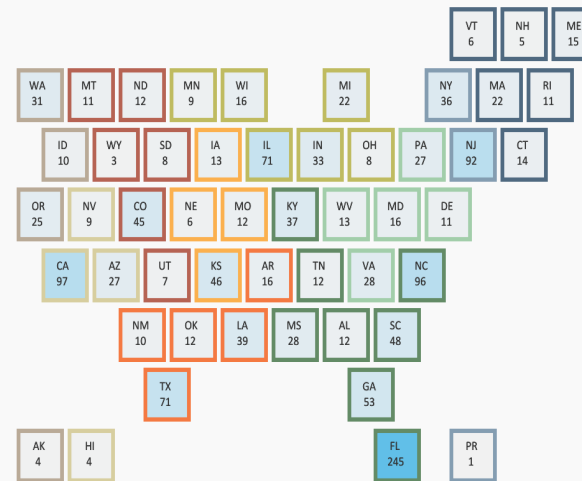
- **Initial Application/Startup**
 - Submitting a Letter of Interest
 - Community Verification Visit
- **Minimum Qualifications for Communities**
 - 500 verified credit points for Class 9
 - Part of the NFIP for at least 1 year
 - FEMA compliance – within 6 months of visit
 - Elevation Certificates for all new buildings/ substantial improvements in SFHA

Community Rating System (CRS) Participation

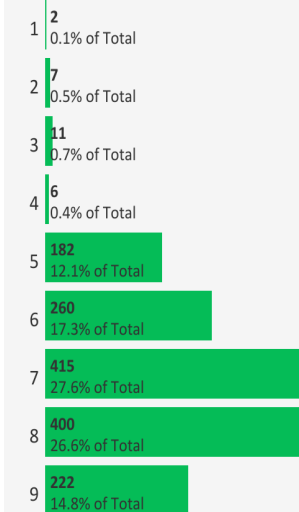
October 2023



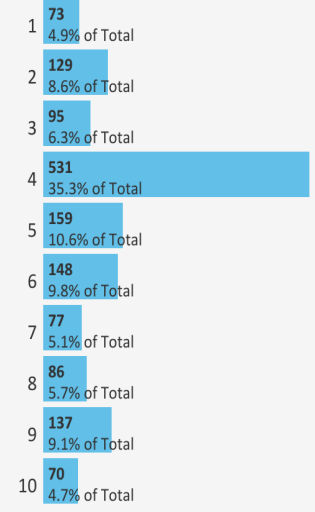
CRS Communities by State



CRS Communities by Class



CRS Communities by FEMA Region





- **Annual Recertification**
 - Confirm continued activity
 - Designated CRS Coordinator to manage CRS-related activities
 - Collaboration with Resource Specialist
 - Annual Recertification
 - Elevation Certs/ Floodproofing Certs, Engineered Opening Certs Reviews
- **Verification Cycle (3-5 years)**
 - Activities comply with CRS requirements
 - Flood protection projects
 - Drainage system maintenance
 - Environmental, and historic requirements
 - 5 years - class rating between 5 and 9
 - 3 years - class rating between 1 and 4

CRS Data Collection



- Data to establish current activities:
 - Estimating achievable points/ CRS score
 - Level of effort of the City
- Interviews with City staff
 - Building and Permitting
 - Communications
 - Emergency Management
 - Natural Resources & Sustainability
 - Public Works & Transportation
- Online Sources (FEMA, FDEM, SERT)

Special thanks to the staff who contributed to this effort: **Randy Knight, Michelle del Valle, Shannon Monahan, Charles Ramdatt, Don Marcotte, Gloria Eby, Gary Hiatt, Clarissa Howard, Anthony Braish**

Participation Analysis, Costs & Benefits



- Point Ranges were established through determining current activities
 - Interview responses
 - Estimated level of activity
 - Analysis of points achieved by other communities
 - Historic information and statistics
 - % of communities achieving points
 - % of points achieved by a community

Table 1: Winter Park Estimated Points by Activity (March 2024)

Activity Code	Activity Name	Maximum Credits Possible	Average Points Earned	Winter Park Estimated Point Range
300	Public Information Activities			
310	Elevation Certificates	116	36	35–40
320	Map Information Service	90	78	60–65
330	Outreach Projects	350	87	50–55
340	Hazard Disclosures	80	15	0
350	Flood Protection Information	125	48	30–35
360	Flood Protection Assistance	110	59	0–5
370	Flood Insurance Promotion	220	40	0
400	Mapping and Regulations			
410	Flood Hazard Mapping	850	78	40–45
420	Open Space Preservation	2,870	471	335–340
430	Higher Regulatory Standards	2,462	272	140–145
440	Flood Data Maintenance	222	127	85–90
450	Stormwater Management	755	110	105–110
500	Flood Damage Reduction Activities			
510	Flood Management Planning	762	197	180–185
520	Acquisition and Relocation	2,250	176	0
530	Flood Protection (Elevating and Floodproofing Buildings)	1,600	64	0
540	Drainage System Maintenance	470	203	280–285
600	Warning and Response			
610	Flood Warning and Response	365	266	95–100
620	Levees*	235	111	0
630	Dams*	160	38	0
	Total	14,092	2,476	1,435–1,495

*Levees and Dams do not apply to the City.

Flood Insurance Premium Benefits



- Points Range: 1,435 – 1,495
- Based on current City activities: CRS Classification Class 8
- 10% premium discount
- 388 NFIP Policies = \$230k Annual Premiums
 - \$23k in premium savings per year
 - Average annual savings per policy - \$59
- Increasing Future Savings
 - Flood insurance premiums are expected to increase (Risk Rating 2.0)
 - Total number of residents that choose to become insured is expected to increase

Table 2: CRS Credit Points, Classes, and Premium Discounts (FEMA: March 2024)

CRS Credit Points	CRS Class	CRS Discount (Premium Reduction)	Total Discount
4,500+	1	45%	\$103,500
4,000–4,499	2	40%	\$ 92,000
3,500–3,999	3	35%	\$ 80,500
3,000–3,499	4	30%	\$ 69,000
2,500–2,999	5	25%	\$ 57,500
2,000–2,499	6	20%	\$ 46,000
1,500–1,999	7	15%	\$ 34,500
1,000–1,499	8	10%	\$ 23,000
500–999	9	5%	\$ 11,500
0–499	10	0	-

These figures are based on the estimated points the City could receive upon participation in the program. Additional activities could improve this score. The potential for improvements was not evaluated.



- Initial verification or 5-year full verification, each
 - 325-375 hours of City staff time, -or-
 - \$55k -\$60k in consultant fees
 - Annualized costs: ~ \$12k - \$15k
- Annual recertification, preparation and submission
 - City's CRS Coordinator = 60-80 hours

Not a simple Cost analysis:

Over time, it is expected that the City's CRS Coordinator will increase efficiency and streamline certain tasks associated with their role, which should reduce effort. However, the City may also seek to improve its score by engaging in additional activities, resulting in additional time commitment and fees

Scope Breakdown (Initial & 5 Year Full Verification)

- Organize Documentation
- In-depth Interviews
- CRS Evaluation Report
- Prepare Documents
- Develop Internal Tracking
- Verification Visit
- Follow-up Documentation

Neighboring Communities

Participating Neighboring Communities



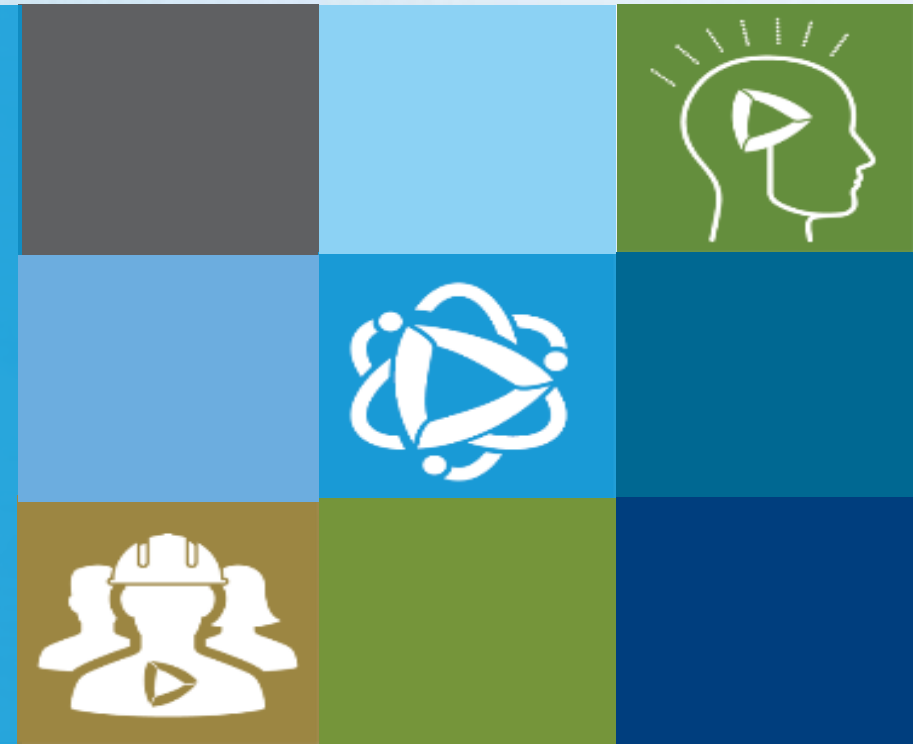
- Both larger and smaller communities participate
- Highest Rating: 5 (25% Discount)
 - Lake Mary & Orange County
- Lowest Rating: 8 (10% Discount)
 - Apopka & Casselberry
- Number of insurance policies
 - Lowest: 155 (Lake Mary)
 - Highest: 5,601 (Orange County)

Table 3: Neighboring Communities CRS Participation (FEMA: April 2022)

Community Name	Population	CRS Score	% Discount	CRS Entry Date	Total Number of Policies	Total Premium	Estimated Annual Savings
Orange County	1423000	5	25%	10/1/1991	5601	\$2,627,917	\$ 656,979
Orlando	309000	6	20%	10/1/1993	1665	\$841,306	\$ 168,261
Apopka	55000	8	10%	10/1/1993	159	\$90,412	\$ 9,041
Seminole County	470000	6	20%	10/1/1991	2668	\$1,436,488	\$ 287,298
Altamonte Springs	45000	7	15%	10/1/1994	399	\$186,992	\$ 28,049
Casselberry	29000	8	10%	10/1/2019	195	\$114,155	\$ 11,416
Lake Mary	17000	5	25%	10/1/2009	155	\$77,906	\$ 19,477
Sanford	61000	7	15%	10/1/2016	397	\$200,225	\$ 30,034
Winter Springs	38000	6	20%	10/1/1993	428	\$264,281	\$ 52,856



Questions?



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813.379.4385



Data Collected

- Elevation Certificates (EC)
- Letter of Map Amendments (LOMA)
- Flood Insurance Study (FIS)
- Stormwater Management Plans
- Past Capital Improvement Plans (CIP)
- FIRM Panels
- CIP 5-year plan
- Ordinance Information
- Building Codes & Standards
- Communication Information (Hurricane, Outreach, Education, etc.)
- Community Insurance Policy Information
- Geographic Data/ Maps
 - Structure Footprint
 - Green space
 - Special Flood Hazard Areas (SFHA)
 - Parcels
 - City Boundary
 - Topographic Data
- Hurricane Ian Damage Assessment
- Interim Adaptive Flood Management Guide



Lakes & Waterways Board

agenda item 7.a

item type

Staff Updates

meeting date

June 11, 2024

prepared by

Victoria Tabor, Administrative Coordinator II

approved by

Victoria Tabor, Administrative Coordinator II

subject

Winter Park Police Department

motion | recommendation**background****alternatives | other considerations****fiscal impact****attachments**

None



Lakes & Waterways Board

agenda item 7.b

item type

Staff Updates

meeting date

June 11, 2024

prepared by

Victoria Tabor, Administrative Coordinator II

approved by

Victoria Tabor, Administrative Coordinator II

subject

Lakes Management

motion | recommendation**background****alternatives | other considerations****fiscal impact****attachments**

1. Lakes Update 2024.06



Lakes and Waterways Advisory Board

June 2024

Lakes Updates

- FWC Point Intercept Survey
 - Maitland, Minnehaha, Mizell, Osceola
- Lake Midget Nanobubbles
- Treatments
- Howell Creek Restoration Update
- Grass Carp Stocking
- Aquatic Plant of the Month
- Lake Restoration Events
- July Lakes Appreciation Month

Lake Midget Nanobubble Aeration



Pickerelweed (*Pontederia cordata*)

Native



Pickerelweed
Pontederia cordata
Photo by Ann Murray
© 1999 University of Florida

Pickereelweed (*Pontederia cordata*)

Native





Lakes & Waterways Board

agenda item 7.c

item type

Staff Updates

meeting date

June 11, 2024

prepared by

Victoria Tabor, Administrative Coordinator II

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subject

Past & Upcoming Events

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- Filth of July Clean-up - 7/6 9am @ Howell Branch Preserve

motion | recommendation**background****alternatives | other considerations****fiscal impact****attachments**

None



Lakes & Waterways Board

agenda item 7.d

item type

Staff Updates

meeting date

June 11, 2024

prepared by

Victoria Tabor, Administrative Coordinator II

approved by

Victoria Tabor, Administrative Coordinator II

subject

Stormwater Management

motion | recommendation**background****alternatives | other considerations****fiscal impact****attachments**

1. SW Update - Lakes Board

Staff Update

Stormwater Management

Stormwater Management – CIP

ACCT #	CIP Title & Description	Original Year Funded	Current Balance	Status/Comments
565200	Drainage Improvements - Recent years of unusually heavy rainfall events have revealed several substandard drainage conditions in various locations throughout the City.	Annually Funded	\$57,164	Several in-house drainage improvements projects for 2023-24 - Completed replacement of 70ft of 24 inch RCP crossing Joeline Court, and 120ft of 18 inch HDPE at the north end of Laurel Road. Upcoming - add another inlet and pipe at 1622 Arbor Park Drive, increase pipe size at 1642 Arbor Park Drive, storm pipe replacement/relocate at 2601 & 2631 Temple Drive.
				1) <u>Palmer at Old England outfall repair</u> - Stormwater outfall pipe replacement required. Design is 40% complete, survey is now complete. Phase 1 permit application with SJRWMD has been submitted. Waiting on response from District.
				2) <u>Stormwater Outfall Dredging</u> - The City recently entered a new contract, dredging on several stormwater outfalls started in Aug 2023, and will continue as needed.
				3) <u>Ward Park ponds construction</u> - Estimated cost \$150k. NE and NW Pond excavation and sodding is complete. Piping installation started May 2024.
				4) <u>Pipe Repair at Summer Way</u> - Corrugated metal pipe replacement. COMPLETE.
				5) <u>Killarney Dr Outfall & Street Repairs Phase 1</u> - New outfall to replace two existing outfalls. Permit with SJRWMD to be submitted April 2024. Anticipated Construction August 2024.
565203	Lk. Bell Weir Outfall Improvements -	2009	\$69,223	Repairs may be required on the Lake Bell outfall weir. Preliminary concept and geotechnical evaluation are complete. Final plans and permitting are underway.
565221	Seminole County Ditch Piping (along Arbor Park Dr) – Drainage ditch behind the homes along Arbor Park Drive has a shared drainage basin with Seminole County. Funding is provided for the design and construction to pipe the ditch.	2016	\$733,395	The Interlocal Agreement was approved by the City Commission and by the Seminole County Commission. 60% plans completed and submitted to Seminole County. Phase I permit application has been submitted to SJRWMD.
565205	Nicolet Ave Stormwater Pond – complete the design and construction of a stormwater treatment pond on City purchased properties located at 796 & 808 Nicolet Avenue	2023	\$199,580	Commission approved \$200,000 in the City's FY'23 budget. General permit application and RAI has been submitted.
565217	Stirling Bridge Replacement	2024	\$250,000	Updates required for price estimate.
565210	Fawsett Road CDS Unit	2024	\$200,000	Seeking permit exemption with SJRWMD.
	Curb Implementation	2024	\$50,000	
	TOTALS			
3023406	ACTIVE STORMWATER CIP's		\$1,559,361.97	BALANCE TOTAL

Stormwater Management

- Hurricane Season Prep
 - Increased inspections and maintenance of critical stormwater infrastructure
 - Inspection and enforcement of private stormwater systems



Lakes & Waterways Board

agenda item 8.a

item type

Board Comments

meeting date

June 11, 2024

prepared by

Victoria Tabor, Administrative Coordinator II

approved by

Victoria Tabor, Administrative Coordinator II

subject

Discussion of Public Comments Received

motion | recommendation**background****alternatives | other considerations****fiscal impact****attachments**

None



Lakes & Waterways Board

agenda item 9.a

item type

Upcoming Agenda Items

meeting date

June 11, 2024

prepared by

Victoria Tabor, Administrative Coordinator II

approved by

Victoria Tabor, Administrative Coordinator II

subject

Discussion of Upcoming Agenda Items

motion | recommendation**background****alternatives | other considerations****fiscal impact****attachments**

None