



April 3, 2014

City of Key West Comprehensive Plan Updates

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Welcome!

WE NEED YOUR INPUT

1. Ch. 1. Future Land Use Element

BPAS Allocation Period shift

2. Ch. 1A. Historic Preservation Element – Enid Torregrosa

Entire Element under consideration

3. Chapter 5A. Port Element – Doug Bradshaw

Entire Element under consideration

4. Water Supply Plan – Allison Higgins

Chapter 6. Conservation Element

Chapter 8. Intergovernmental Coordination

Chapter 9. Capital Improvements Element

5. Climate Change Element – Allison Higgins

New Chapter



BPAS Updates

Existing Requirements

- HEM MOU allows a 10 year allocation period – No dates
- Existing CP Policy Establishes allocation period from July 2013-2023
- BPAS Regulations (LDR's) not adopted until March, 2013

Proposed Update

- Change allocation period to 2014-2024
- Moves date of availability of Transient Unit Allocations to 2017



Port Element

Overview

What constitutes the Key West Port Facilities?

Existing Components

- CIP Plan (1993-1998)
- Truman Waterfront Parcel
- Hurricane Evacuation

Proposed Updates:

- Facility Maintenance
- Economic Impacts
- Environmental Impacts
- Intergovernmental Coordination
- International Hub
- Land Use Compatibility





Historic Preservation Element

The City of Key West is a Certified Local Government

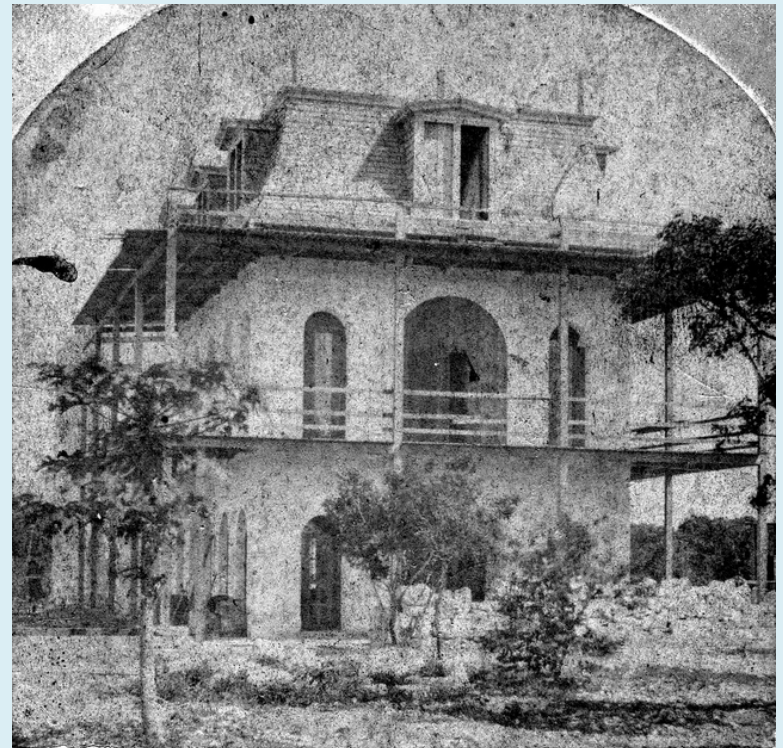
- Since 1991 the Florida State Historic Preservation Office and the Department of the Interior through the National Park Service program recognized the City of Key West as a Certified Local Government. That means that;
 - The City must have a Historic Preservation Commission
 - The City must have a Historic Preservation Ordinance
 - The City must have an update inventory of historic structures
 - The City must have a Historic Preservation programin order to perform the duties of identify, preserve, protect and promote historic resources and to educate citizens in historic preservation.



Historic Preservation Element

Some history of the Historic Preservation movement in Key West

- In 1965 State Law recognized the historic significance of St. Augustine and Key West.
- In 1968 the Convent of Mary Immaculate was demolished.
- In 1969 there were plans for the demolition of the Armory building.
- In 1969 the City created Old Island Restoration Commission.
- In 1998 HARC was created by Charter.





Historic Preservation Element

Some history of the Historic Preservation movement in Key West

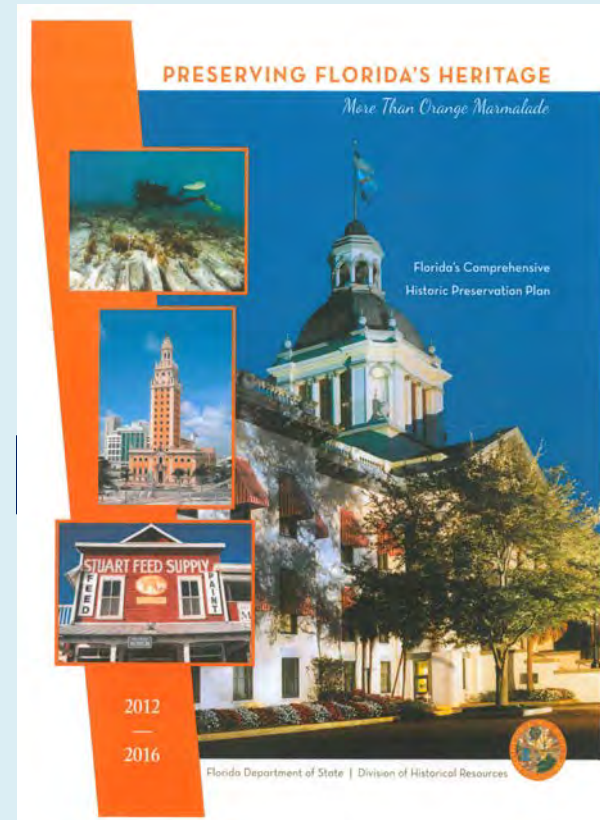




Historic Preservation Element

The need of an update in the Historic Preservation Element in the Comprehensive Plan

- The HP element ensures the protection of historic resources as mandate from State Law.
- The HP element has not been revised since 1993!
- The HP element should incorporate goals and objectives found in the Florida's Comprehensive Historic Preservation Plan.





Historic Preservation Element

Important goals and objectives:

- Ensure identification, evaluation and protection of historic resources.
- Promote historic resources through education, public awareness and other means of support.
- Stimulate private and public sectors in the rehabilitation, restoration, adaptive re use and preservation of historic resources.
- Promote citizens participation in historic preservation process.
- Promote economic incentives for the preservation of historic resources.



Historic Preservation Element

Important goals and objectives:

- Ensure that historic resources are taking into consideration in planning of all capital programs, from local, State and Federal governments.
- Prevent demolition by neglect of historic resources.
- Protection of cemeteries and burial sites.
- Protection of archaeological resources.
- Protection of maritime resources.
- Promote adaptive reuse, adaptation and climate change issues without compromising historic integrity of buildings, structures and sites.
- Protection of historic buildings, structures and sites before and after natural disasters.



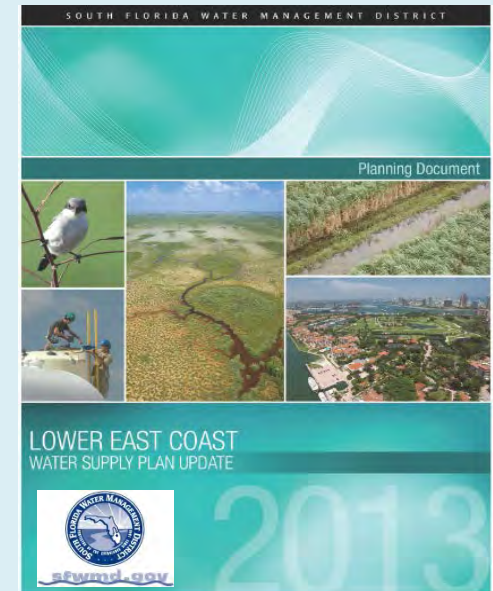
Water Supply Plan Update

Lower Keys Regional Water Supply Plan

- Adopted by South Florida Water Management District in September 2013
- Local Governments must adopt local Water Supply Work Plans by March 2015

Required Updates:

- Population / Water Usage Projections
- Level of Service Reflecting Actual Per Capita & Conservation Goals
- 10 Year Minimum Planning Horizon
- Options to Conserve Water
- Water Shortage Restrictions
- Existing / Future Water Sources
- Data / Analysis



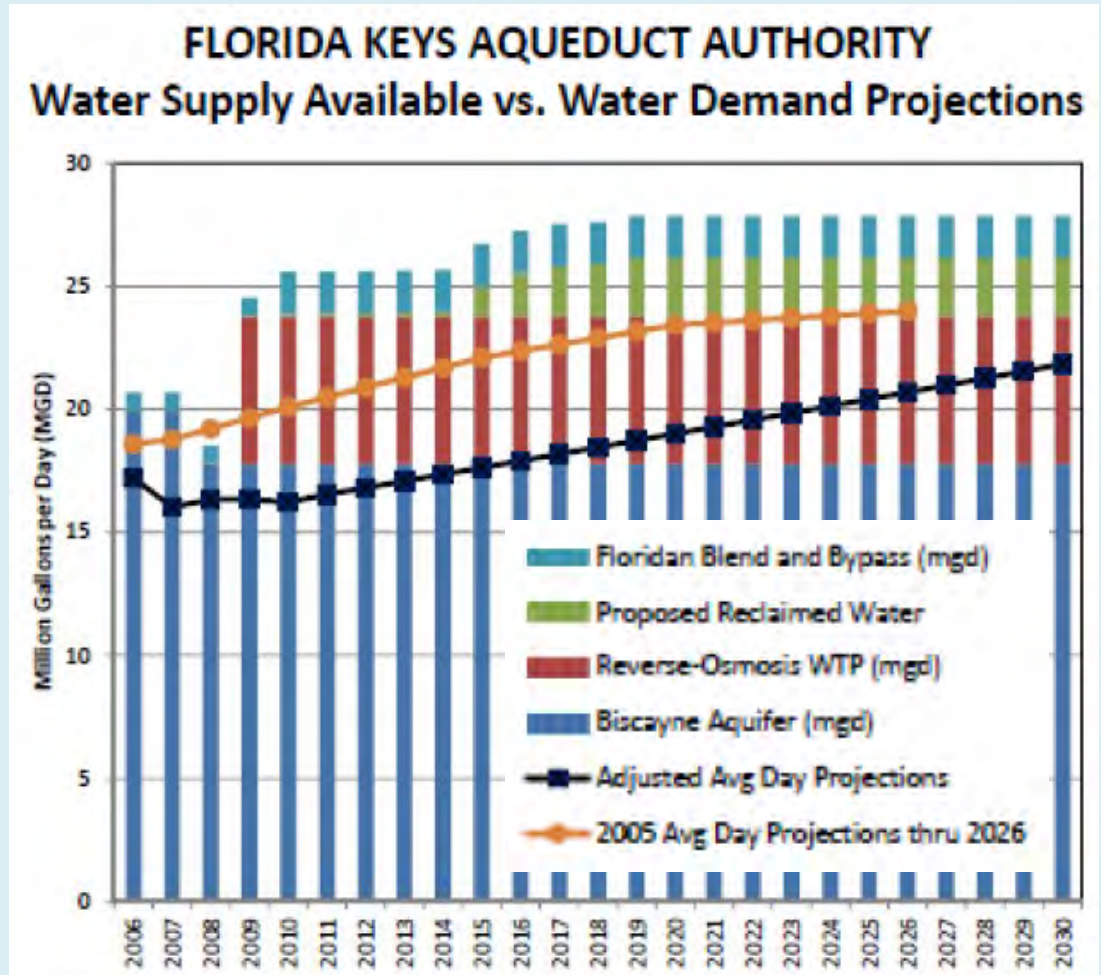


Water Supply Plan Update

Potable Water is Getting More Expensive

Agreed upon Goals & Policy Language:

- Key West
- Monroe County
- Marathon
- Key Colony Beach
- Layton
- Islamorada





Water Supply Plan Update

Per Capita Water Consumption is Outpacing Population Growth

Year	Per Capita Use (gal/pers/day)	% Change use	Keyswide Functional Population	% Change Popn	Key West Functional Population	% Change Popn
2005	114g	x	156,150	x	53,383*	x
2010	104g	-8%	155,288	-1%	54,347	+2%
2015	110g	+5%	157,400	+1%	54,446	~0%
2020	117g	+7%	159,051	+1%	54,747	+1%
2025	125g	+6%	160,703	+1%	55,061	+1%
2030	132g	+6%	162,355	+1%	55,612	+1%

Largest Contributor: use of potable water for Pools + Landscaping
Solution: Non-potable options



Water Supply Plan Update

Adopted Level of Service Standards v. Actual Consumption

Comprehensive Plan (last update)	Residential LOS	Non-Res LOS	Overall LOS	Equiv. Res Unit	Actual Per Capita Consumption (2012)	
					Residential	All Users
Key West (2013)	100	--	--	--	65g	151g
Islamorada (2014)	66.5g	0.35g	177g	371g	54g	131g
Key Colony Beach (?)	104g	--	--	--	75g	112g
Layton (2009)	--	--	114g	--	48g	107g
Marathon (2013)	66.5g	0.35g	100g	149g	45g	79g
Monroe Co. (2014 draft)	66.5g	0.35g	86g	--	63g	82g
MC Consumption Goals (2014 draft)	57g	0.29g	86g	--	--	--
Keyswide Totals:					61g	106g



Water Supply Plan Update

Update Level of Service

Reduce:

- Residential
- Non Residential
- Overall
- Equivalent Residential Unit



Create Conservation Goals

Policies:

- Appropriate Alternative Water Sourcing
- Florida Friendly landscape ordinances
- Irrigation standards
- Water Sense, Ultra Low Volume fixtures
- Development Triggers





Water Supply Plan Update

Comments:

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Climate Change Element

History of Environmental Leadership:

1988: Volunteer citizens begin first recycling program at drop off area.

1989: Key West gets central sewer system

1989: Reef Relief obtains phosphate ban throughout Monroe County.

1990: City of Key West adopts recycling program and starts curbside service.

1999: City votes to eliminate illegal cesspits.

2000 - Garrison Bight Mooring field installed, decreasing anchor damage.

2001: Wastewater upgrade to advanced treatment, ocean outfall closed.

2002: State waters in the Florida Keys National Marine Sanctuary
become a No Discharge Zone.





Climate Change Element

History of Environmental Leadership:

2006: Signed onto Mayors Climate Protection Act.

2007: Biodiesel B20 used in all City diesel vehicles and busses.

2007: Winner of Green Government award from GLEE (& 2009)

2008: City Commission sets 15% GHG reduction goals

2009: Creation of Key West Sustainability Advisory Board.

2009: Key West passes Climate Action Plan.

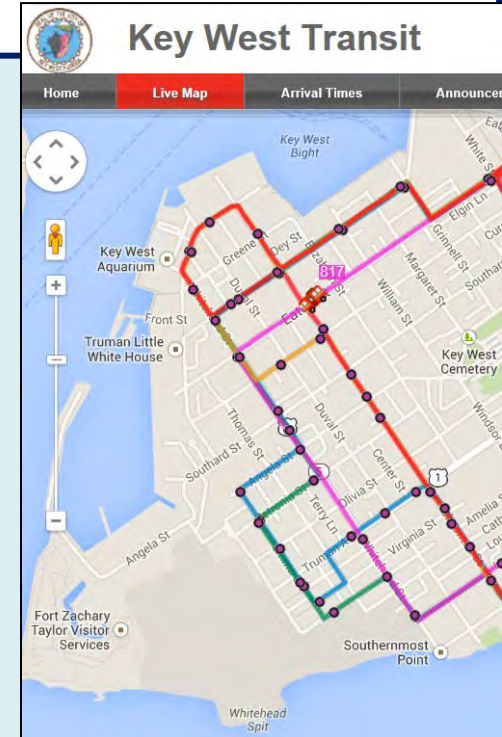
2009: Both Key West City Marinas become Clean Marinas.

2009: Implemented a volunteer door to door education program for recycling.

2010: www.kwtransit.com launches, with real-time bus information to smartphones.

2011: Key West starts LED lighting retrofit to the Key West Park N Ride

2011: Key West obtains Recovery Act funding for ball field lighting retrofits





Climate Change Element

History of Environmental Leadership:

2012: Hires first Sustainability Coordinator.

2012: HARC passes revisions to its guidelines, allowing solar energy in Historic District

2012: Pedestrian Action Committee pilots LED street lighting project with Keys Energy

2012: Audubon grant (\$28K) for ~550 native plants & 9,000 gal. cisterns at Indigenous

2012: Approves Solid Waste Master Plan and starts on Phase 1: Now 22.5%!

2013: Privately-funded, volunteer-built Horse Manure Compost Shed saves \$4.5K /yr

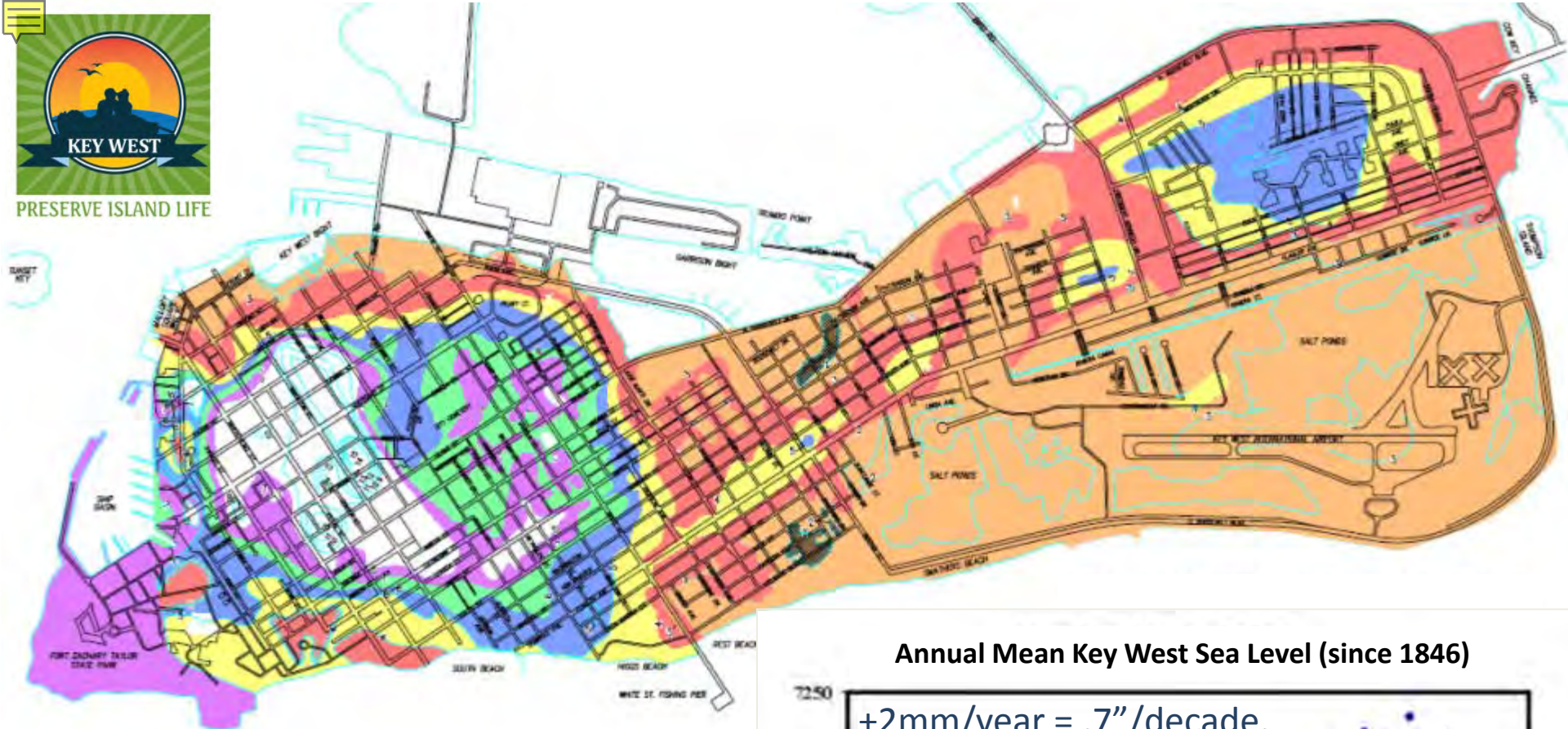
2013: 52 Sustainability items become part of the Comprehensive Plan

2013: BV-CRA grant (\$20K) to create Bahama Village Community Garden

2013: LED lights installed along Duval Street and Bight

2014: BV-CRA grant (\$61.2K) to train students weatherize 150 Bahama Village Homes

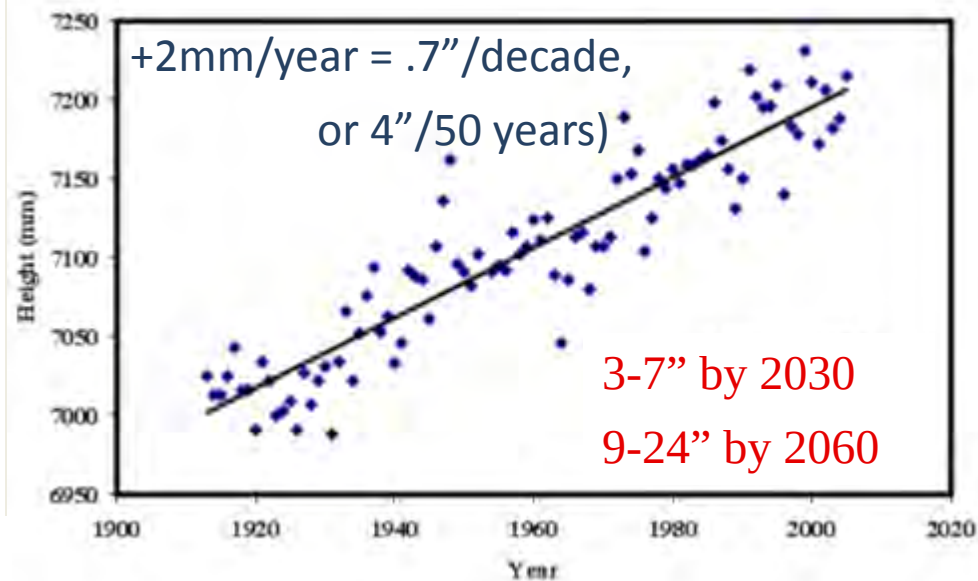
2014: NOAA grant (\$33.7K) for Climate Change Adaptation in Comp Plan / Ordinances



-  WILL FLOOD AT HIGH TIDE WITHOUT TIDE VALVE
-  WILL FLOOD WITH A 3 FT STORM SURGE
-  WILL FLOOD WITH A 4 FT STORM SURGE
-  WILL FLOOD WITH A 5 FT STORM SURGE
-  WILL FLOOD WITH A 6 FT STORM SURGE
-  WILL FLOOD WITH A 7 FT STORM SURGE
-  WILL FLOOD WITH A 8 FT STORM SURGE

STORM TIDE = STORM SURGE + ASTRONOMICAL TIDE

Annual Mean Key West Sea Level (since 1846)





We are already living amongst change....

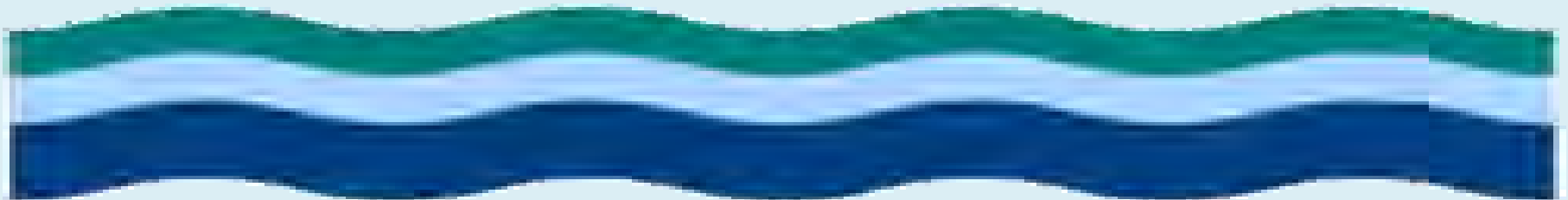




Climate Change Element

Resources:

- Broward County Climate Change Element (2013)
- **Monroe County Climate Change Element (draft)**
- Lee County Climate Change Resiliency Strategy (2010)
- Punta Gorda Adaptation Plan (2009)
- Southeast Florida Regional Climate Change Compact
- Keyswide Planners Forum
- Tom Ruppert, NOAA Coastal Planning Specialist
- Land Development Regulations Consultant Team (TBA)

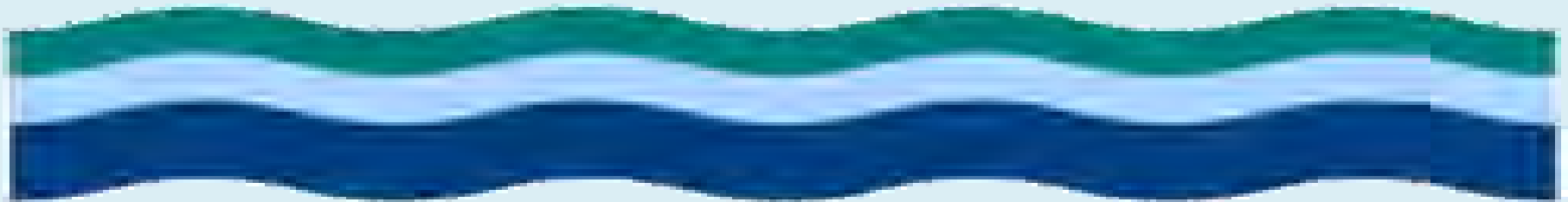




Climate Change Element

Keywise Planners Forum Agreements:

- 50-75 Year Timeline
- Shared Language / Goals
- Next Greenhouse Gas Reduction Goals (2020/2025/etc)
- Best Available Data & Science
- Fill Data Gaps (especially vulnerabilities)
- Collaboration for Economies of Scale (paving/street lights)
- Proactive Standards instead of Reactive
- Tipping Points (Rate of Rise vs Time Estimates)

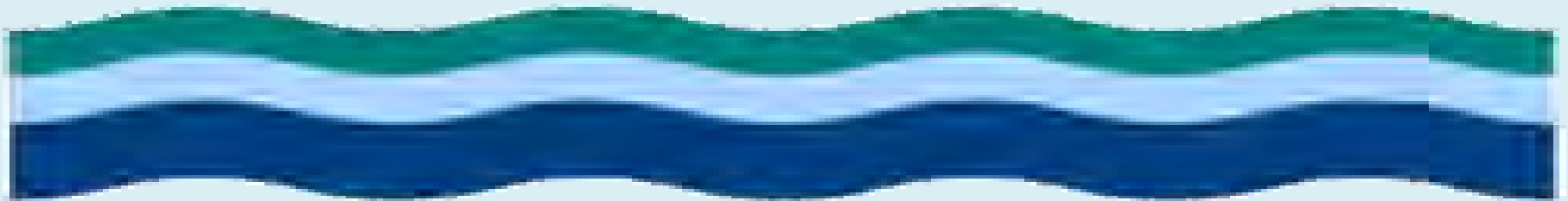




Climate Change Element

Goals, Objectives & Policies:

- Capital Improvement Projects
- Adaptation Action Areas
- Stormwater Management: Green Infrastructure
- Land Use Amendments
- Shoreline stabilization
- Natural Areas Protection (land and water)
- Post Disaster Recovery

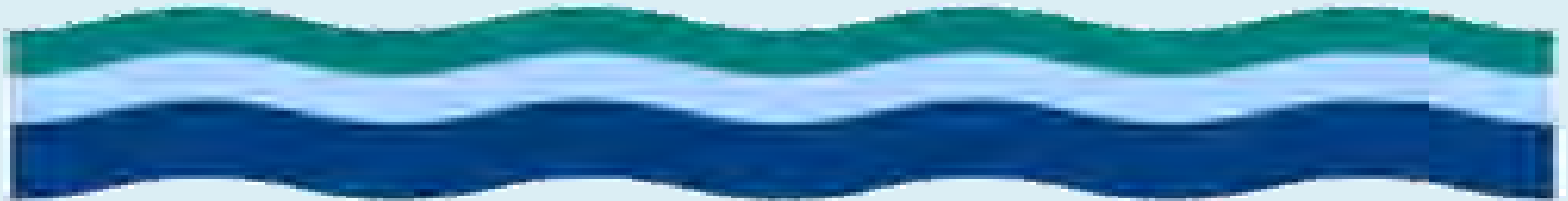




Climate Change Element

Goals, Objectives & Policies:

- Sustainable Business Incentives
- Green Building Codes (efficient and resilient)
- Increased Water Conservation / Alternative Water Use
- Vehicle Miles Travelled / Transportation Mode Shift
- Sequestration: Tree Canopy Goals
- Evaluation & Monitoring





Climate Change Element

Grant \$ Potential:

- US Dept of Commerce: Coastal Resilience Network
- US Homeland Security: Port Security Grant Program
- US DOT: Transportation Infrastructure
- US National Parks: Land and Water Conservation Fund
- US HUD: Community Development Block Funds
- FEMA Hazard Mitigation Grant Program
- Florida DEP: Coastal Partnership Initiative
- Florida Historical Resources: Historic Preservation Grants
- Etc, etc, etc



Climate Change Element

Comments:

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