



*Florida Department of
Environmental Protection*

Florida Water Resources Monitoring Council

Basin Management Action Plans

Charles Gauthier , FAICP
Watershed Planning & Coordination Section
February 13, 2013



DEP's Bureau of Watershed Restoration

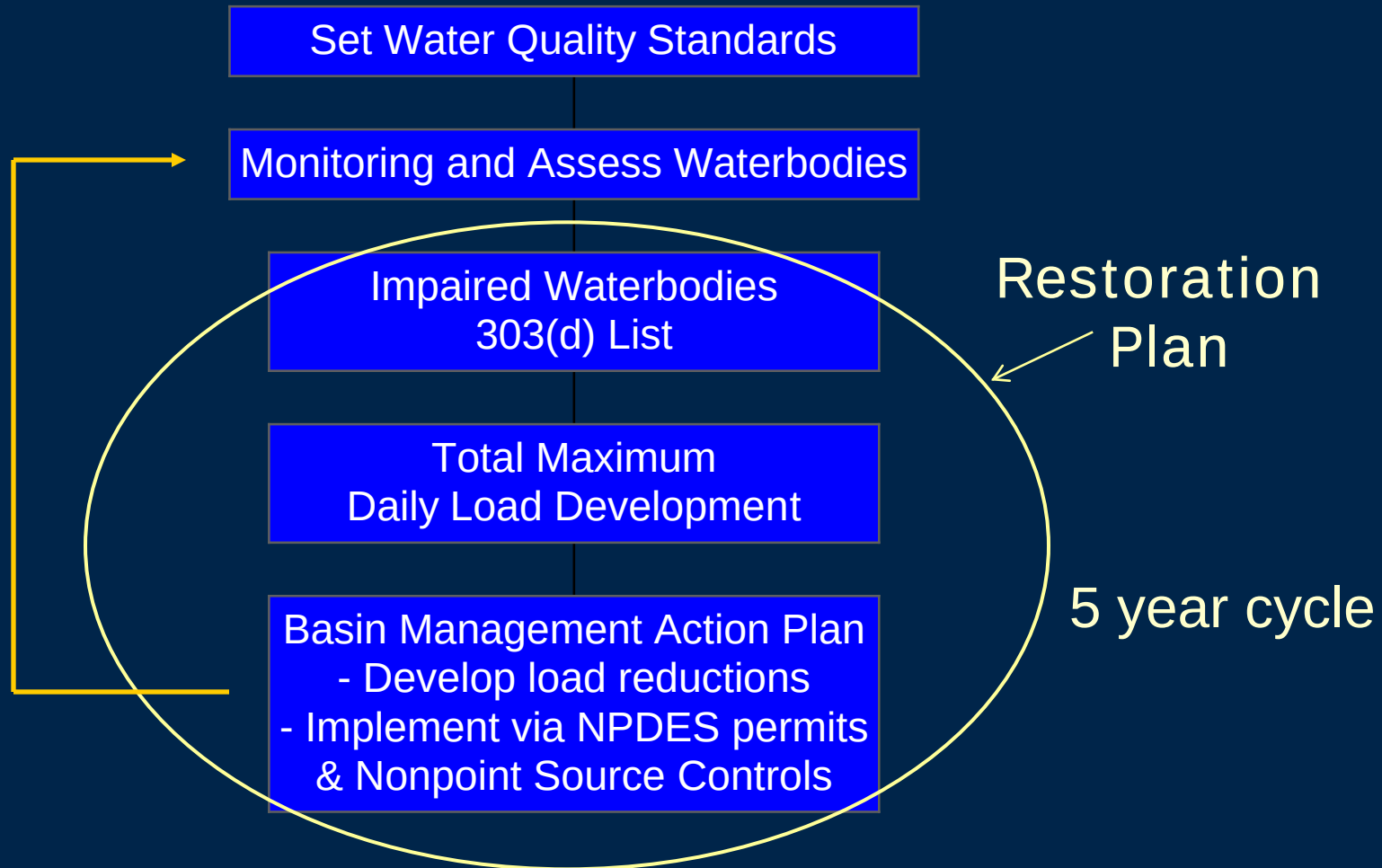
Within the Division of Environmental Assessment and Restoration

- **Data Management**
- **Watershed Evaluation and TMDL**
- **Ground Water Management**
- **Watershed Planning & Coordination**
- **Nonpoint Source Management**





CWA/TMDL/BMAP Process





Basin Management Action Plans

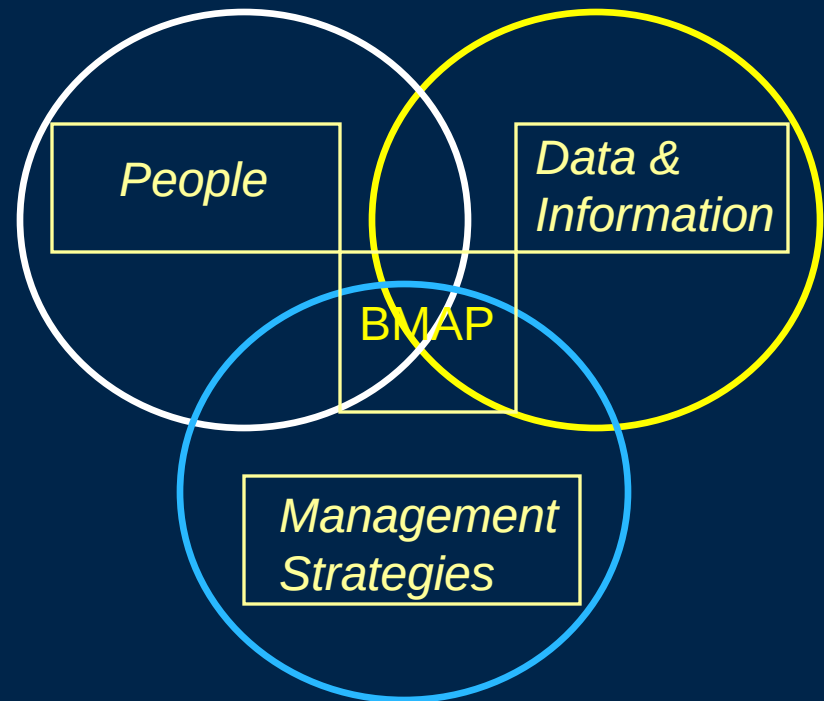
- Statutory method for restoring water quality to an impaired waterbody
- Prepared upon adoption of a TMDL
- BMAPs are prepared using a watershed management approach
- Phased implementation, annual progress reports, five-year updates





BMAP Basics

- The BMAP is a way to bring government, business, community groups, and environmental interests together to solve problems
- “...broadest possible range of interested parties, with the objective of encouraging the greatest amount of cooperation and consensus possible .”





BMAP Basics

- The authority for BMAPs is found in:
Section 403.067, Florida Statutes,
known as the Florida Watershed
Restoration Act
- BMAPs are adopted by DEP
through a Secretarial Order
- Subject to Chapter 120 noticing and
challenge provisions





BMAP Implementation

- For point sources (wastewater treatment facilities and municipal separate storm sewer systems) implementation is through the National Pollutant Discharge Elimination System permits
- For nonpoint sources implementation is through the BMAP Stakeholder Management Strategies and Projects





BMAP Implementation

Projects can include

- Stormwater best management practices
- Wastewater upgrades
- Public education and outreach
- Ordinances (i.e., Low Impact Development, Florida Friendly Landscaping)
- Other measures





BMAP Implementation

- Agricultural producers are required to implement appropriate best management practices (BMPs) for their commodities or implement water quality monitoring to show they are not having an impact
 - BMPs developed for commercial agriculture by DACS

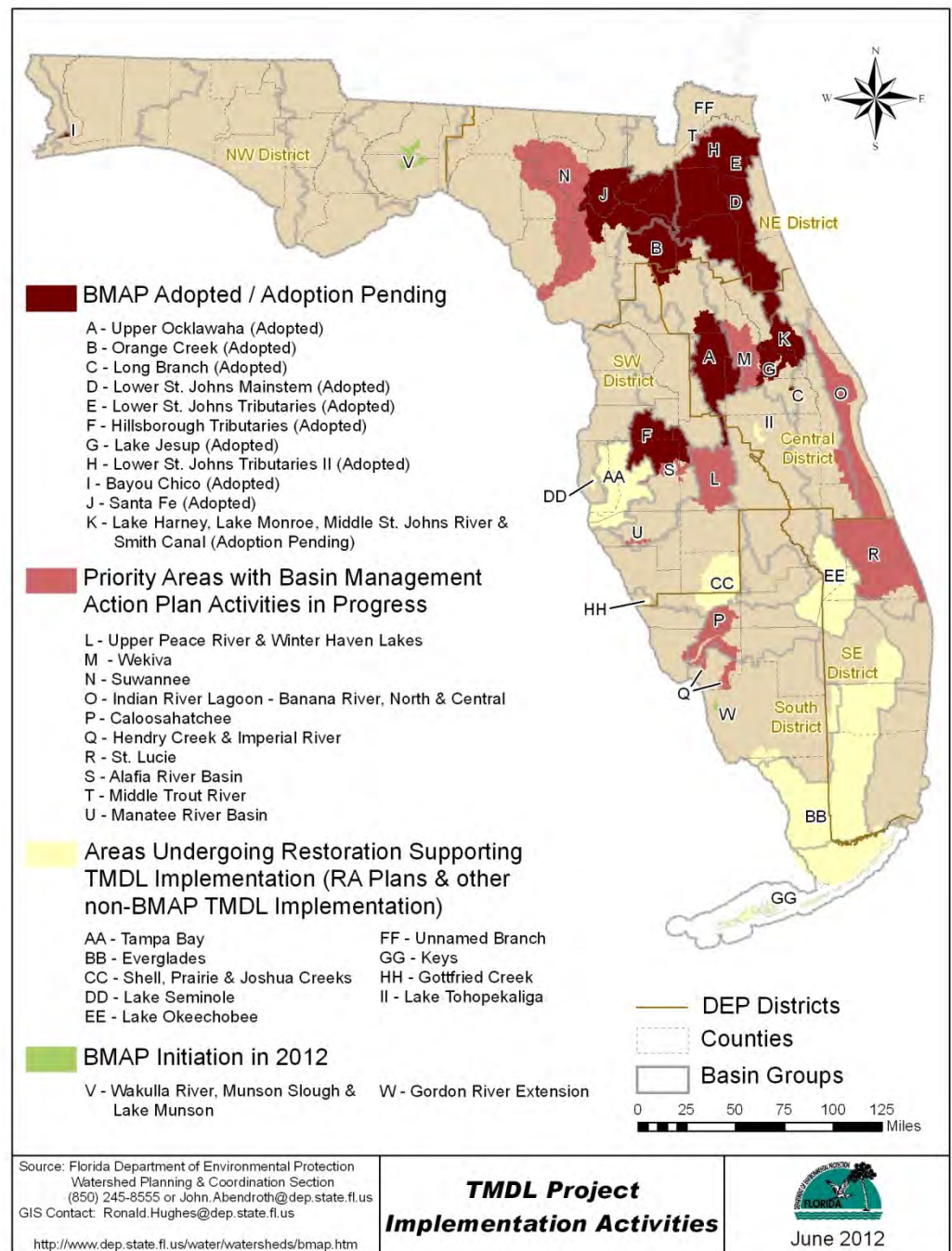




Basins with BMAPs completed or underway

New BMAPS in 2013

- Silver Springs/River
- Rainbow Springs/River
- Wakulla Springs/River
- Lake Okeechobee





Monitoring

- Water quality monitoring crucial for every step in the process!

(Standards, Assessment, Listing, TMDL, BMAP)





BMAP Monitoring

Paragraph 403.067(7)(a)5, Florida Statutes:

“... shall include milestones for implementation and water quality improvement, and an associated water quality monitoring component sufficient to evaluate whether reasonable progress in pollutant load reductions is being achieved over time. An assessment of progress toward these milestones shall be conducted every 5 years.”

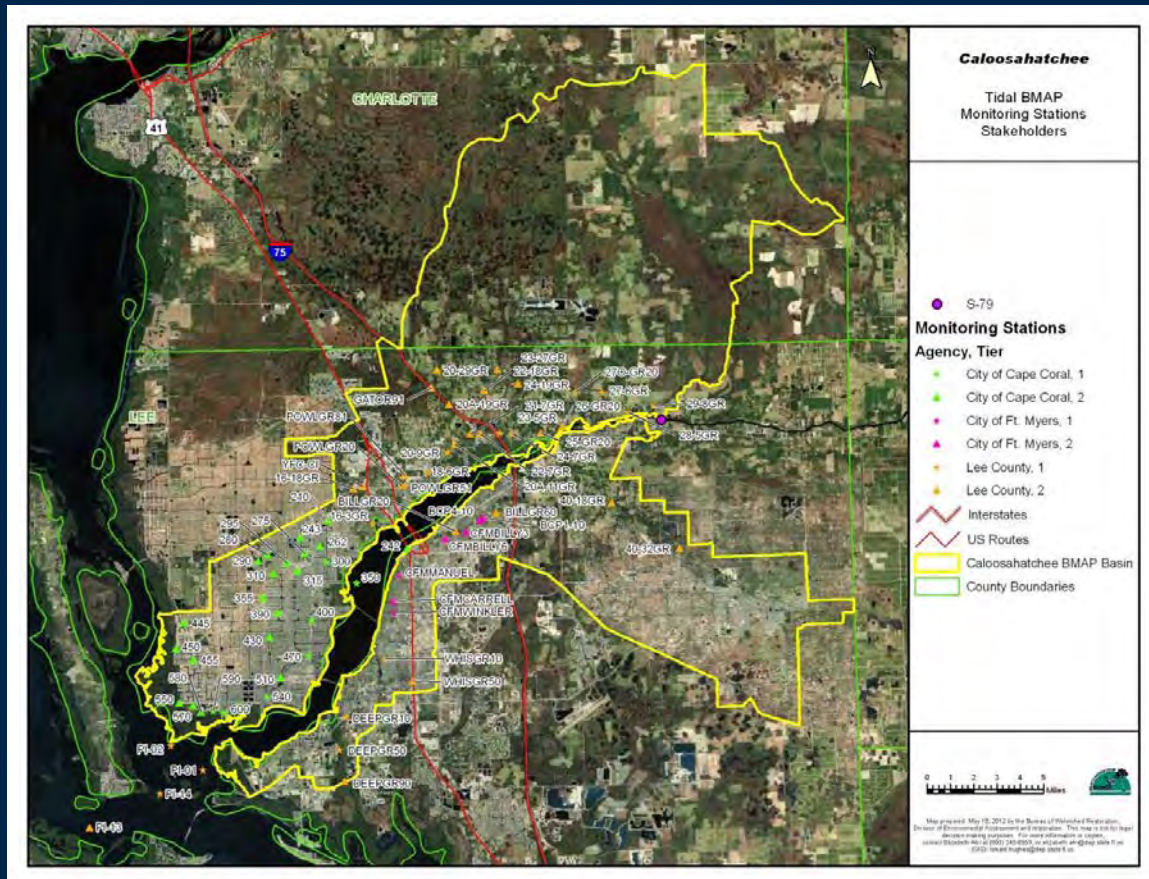




Caloosahatchee BMAP

■ Monitoring Builds upon Existing Network:

- Cape Coral
- Lee County
- Fort Myers
- SCCF
- USGS
- DEP
- SFWMD





Caloosahatchee BMAP

- **Water Quality Monitoring**

Chlorophyll-a (corrected)

Dissolved Oxygen

Nitrate / Nitrite as N

pH - field

Specific Conductance / Salinity

Temperature

Total Kjeldahl Nitrogen

Total Phosphorus

Total Suspended Solids





Caloosahatchee BMAP

- **Biological Monitoring**

Seagrass

Estuary Patch Scale Seagrass Monitoring

Oyster Monitoring





Thank you!

