

# ***Regional Water Supply Plan***

## ***Draft 2006 Update***

### **Tampa Bay Regional Planning Council**

***September 11, 2006***

**Trisha Neasman, AICP  
Planning Department**



***Draft 2006***

***Regional Water Supply Plan (RWSP)***

**Purpose**

**Planning Region**

**Demand Projections**

**Quantification of Sources**

**Water Supply Options**

**Local Government Water Supply  
Assessments**

**Financial Engine**

**Conclusions**

**Schedule & Comment Process**



## ***RWSP Purpose***

**Demonstrate that enough water will be available to meet water supply and environmental recovery needs in the Planning Region for the 2000-2025 planning period**

**Development of alternative sources**

**Managing the resource (MFLs, SWUCA/NTB Recovery Strategies, Water Conservation, etc.)**

**Working with local governments and other users to plan for water supply development and source optimization.**

# ***Draft 2006 RWSP***

**Required by statute**

**Updated every five years**

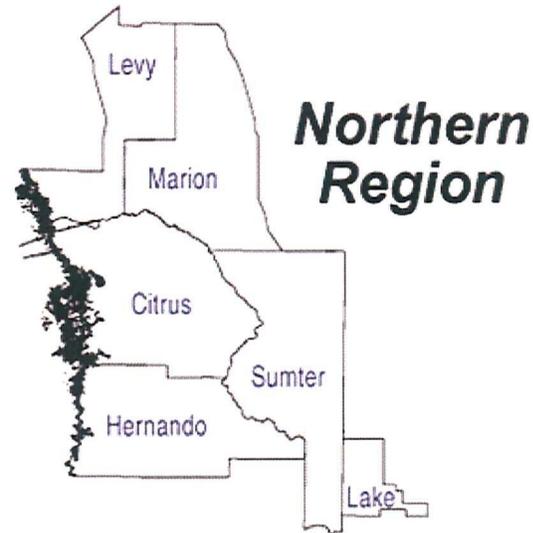
**Area where it is necessary  
to do a RWSP must be  
reassessed every five  
years**



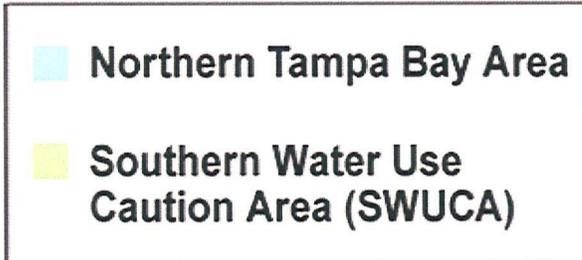
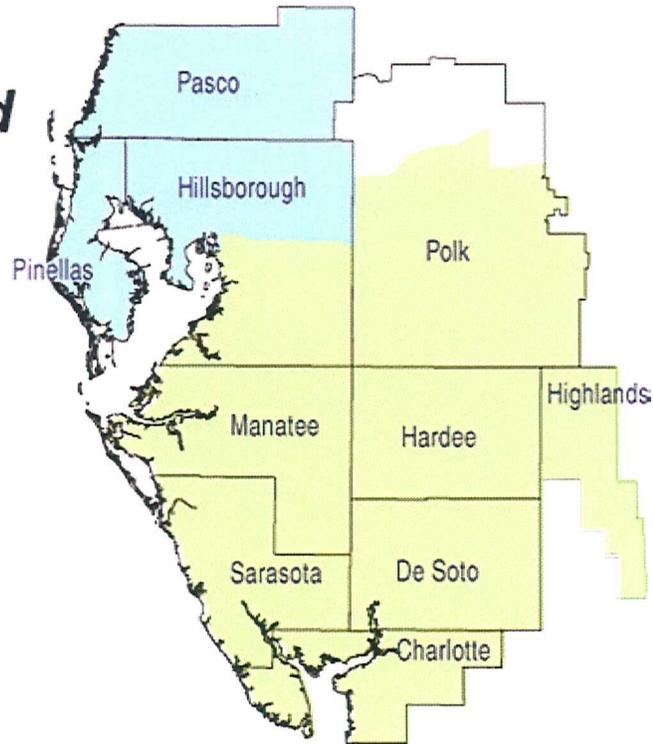
***What Portion of the District  
Requires a RWSP?***



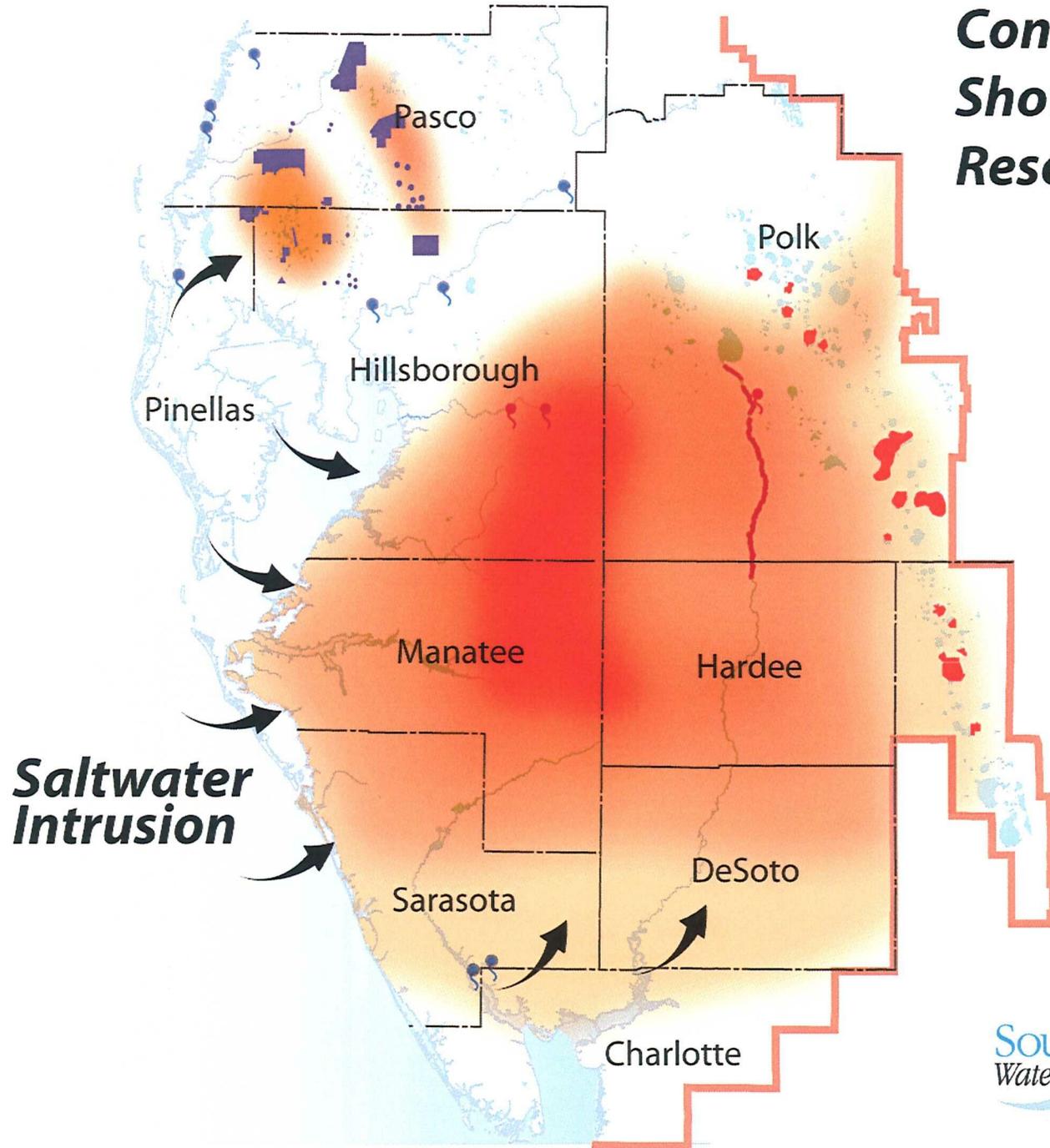
# Southwest Florida Water Management District Water Supply Planning Regions



## Central and Southern Region



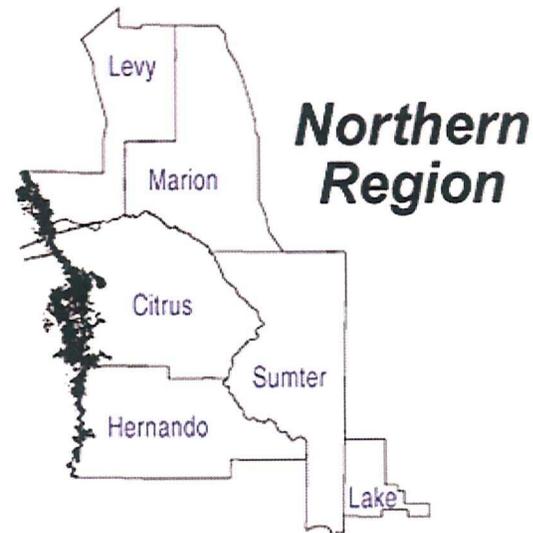
**Conceptual Map  
Showing Areas of  
Resource Concern**



**Saltwater  
Intrusion**

Southwest Florida  
Water Management District

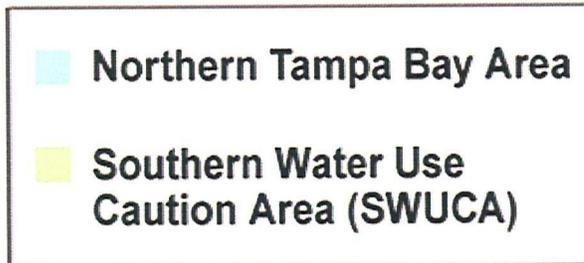
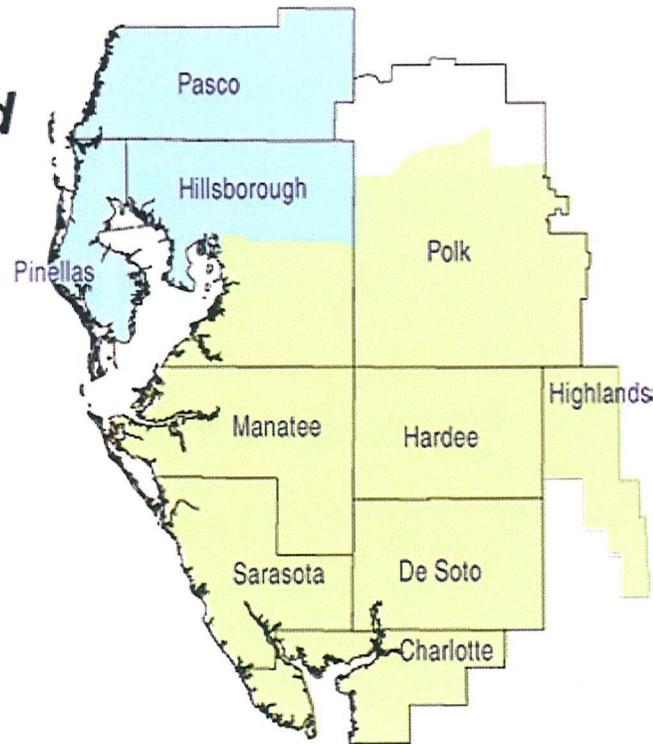
**Southwest Florida Water  
Management District  
Water Supply  
Planning Regions**



***RWSP required***



**Central and  
Southern  
Region**



# ***Water Supply Planning in the Northern District***

- Marion County water supply planning
- Withlacoochee River Water Supply Authority water supply planning
- Northern District Model
- Minimum Flows and Levels
- Reclaimed water and conservation projects funding



***2006 Regional Water Supply Plan***  
***Demand Projections***



***Demand Projections Planning Region  
2000-2025 (mgd)***

<b>Category</b>	<b>2000</b>	<b>2025</b>	<b>Change</b>
Agriculture	491.6	496.1	4.5
Public Supply	485.4	680.4	195.0
IC/MD/PG	118.5	133.1	14.6
Recreation	55.2	85.5	30.3
Environmental Restoration		132.0	132.0
<b>Total</b>	<b>1,150.7</b>	<b>1,527.1</b>	<b>376.4</b>

***2006 Regional Water Supply Plan***  
***Water Source Assessment***



# ***Source Categories***

**Conservation**

**Reclaimed Water**

**Surface Water/Storm Water**

**Seawater**

**Brackish Groundwater**

**Fresh Groundwater**



## ***Water Sources Quantified – Planning Region 2000-2025 (mgd)***

Category	SWUCA	NTB	Total
UFAS Fresh G.W. (Unused Permitted)	32	11	43
IAS Fresh G.W.	34	1	35
Brackish G.W.	9	14	23
Surface Water	134	63	197
Reclaimed Water	36	90	126
Seawater	50	50	100
Conservation	119	61	180
<b>Total</b>	<b>414</b>	<b>290</b>	<b>704</b>
Land Use Changes	84		

# ***Water Supply Options***

- Water supply planning efforts of Tampa Bay Water, the Water Planning Alliance (PR/MRWSA) and the Heartland Water Alliance integrated – hundreds of alternative source options identified.
  - Surface water harvesting
  - Off-stream reservoirs
  - ASR
  - Reclaimed water
  - Conservation
  - Seawater desalination
  - Brackish ground-water desalination
  - Fresh ground water



# ***Water Supply Options***

**Planning level information on configurations, suitable locations, cost, potential yield, permitting issues, etc.**

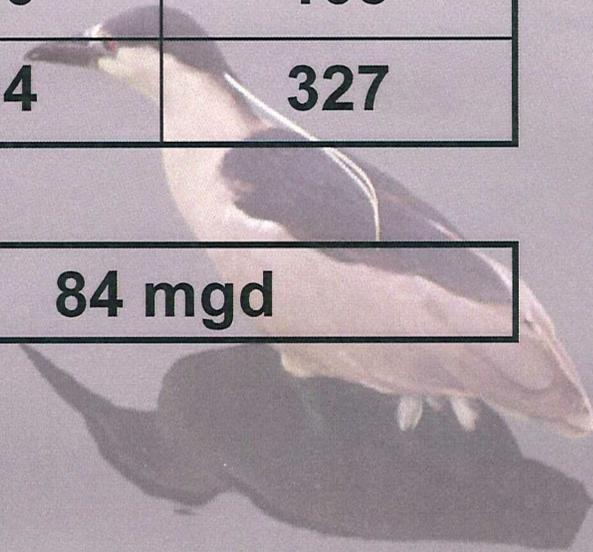
**These options or some alternative configuration of these options can be selected for development by local governments, utilities, regional water supply authorities and private entities.**



# ***2006 RWSP - Planning Region Demand vs. Sources 2000 – 2025 (mgd)***

<b>Area</b>	<b>Demand</b>	<b>Sources</b>	<b>Surplus</b>
<b>SWUCA</b>	<b>196</b>	<b>414</b>	<b>218</b>
<b>NTB</b>	<b>181</b>	<b>290</b>	<b>108</b>
<b>Total</b>	<b>377</b>	<b>704</b>	<b>327</b>

<b>Land-Use Transitions</b>	<b>84 mgd</b>
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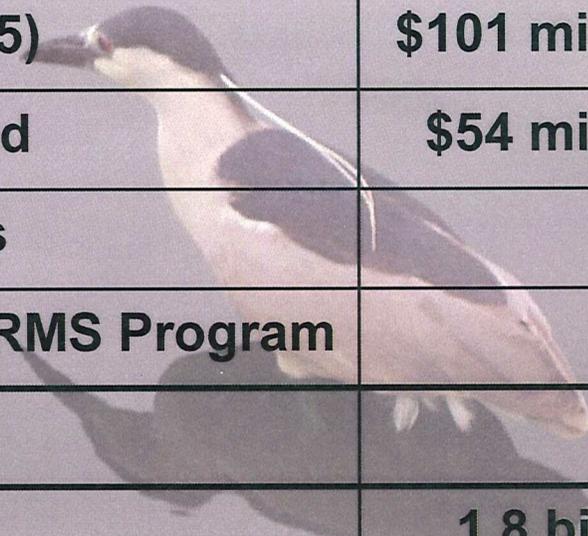
# ***2006 Regional Water Supply Plan***

## ***Financial Engine***



# ***Potential District/State Funding (2007-2025)***

<b>Category</b>	<b>Total</b>
<b>Basin Board Cooperative Funding Program (Water Supply Component) and Cooperator Match</b>	<b>\$374 million</b>
<b>District NWSI Funding and Cooperator Match</b>	<b>\$712 million</b>
<b>District WSRD Funding and 50 Percent Cooperator Match</b>	<b>\$558 million</b>
<b>State of Florida WPSTF (2007 through 2015)</b>	<b>\$101 million</b>
<b>State of Florida, Florida Forever Trust Fund</b>	<b>\$54 million</b>
<b>State of Florida Legislative Appropriations</b>	<b>TBD</b>
<b>State of Florida Appropriations for the FARMS Program</b>	<b>TBD</b>
<b>Federal Funds</b>	<b>TBD</b>
<b>Total</b>	<b>1.8 billion</b>



# ***Local Governments' 10-year Water Supply Facilities Work Plans***

**Updated within 18 months of RWSP  
completion/update**

**Must consider the District's RWSP**

**Demand projections**

**Traditional and alternative water supply projects**

**District technical assistance available**

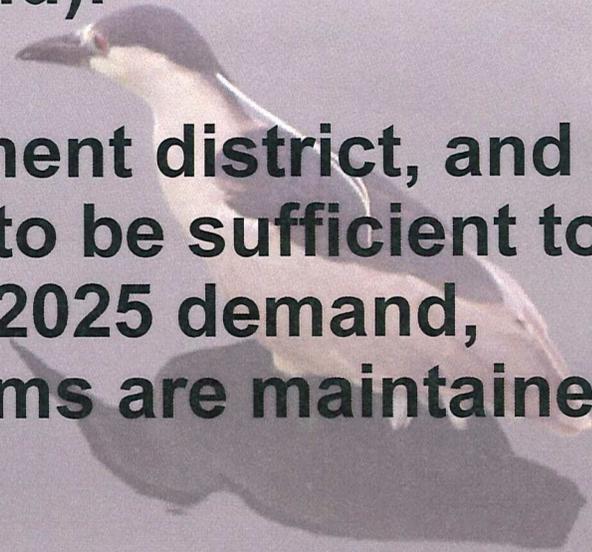


## ***Draft 2006 RWSP Conclusions***

**Water supply/environmental restoration demand for the 2000-2025 planning period is 377 mgd.**

**Sources of water within the Planning Region are sufficient to meet the 2025 demand (704 mgd of sources vs. 377 mgd of demand).**

**Existing state, water management district, and local funding sources appear to be sufficient to cover the cost of meeting the 2025 demand, assuming that funding programs are maintained at current funding levels.**



## ***Schedule***

**June**

**Governing Board  
approval to release draft  
for public comment**

**July-Sept.**

**Public Comment Period  
(deadline September 22)**

**Oct. - Nov.**

**Incorporate comments  
and complete final draft**

**November**

**Obtain Board approval**

**December**

**Submit Board approved  
RWSP to DEP**

**Draft**  
**Regional Water Supply Plan**  
**Public Comment**

**WATERMATTERS.ORG**

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Southwest Florida  
*Water Management District*



**Comments: [Planning@WaterMatters.org](mailto:Planning@WaterMatters.org)**

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