



Northwest Florida Water Management District Monitoring



NWFWMD Resource Management Division

Surface Water and Ground Water Monitoring

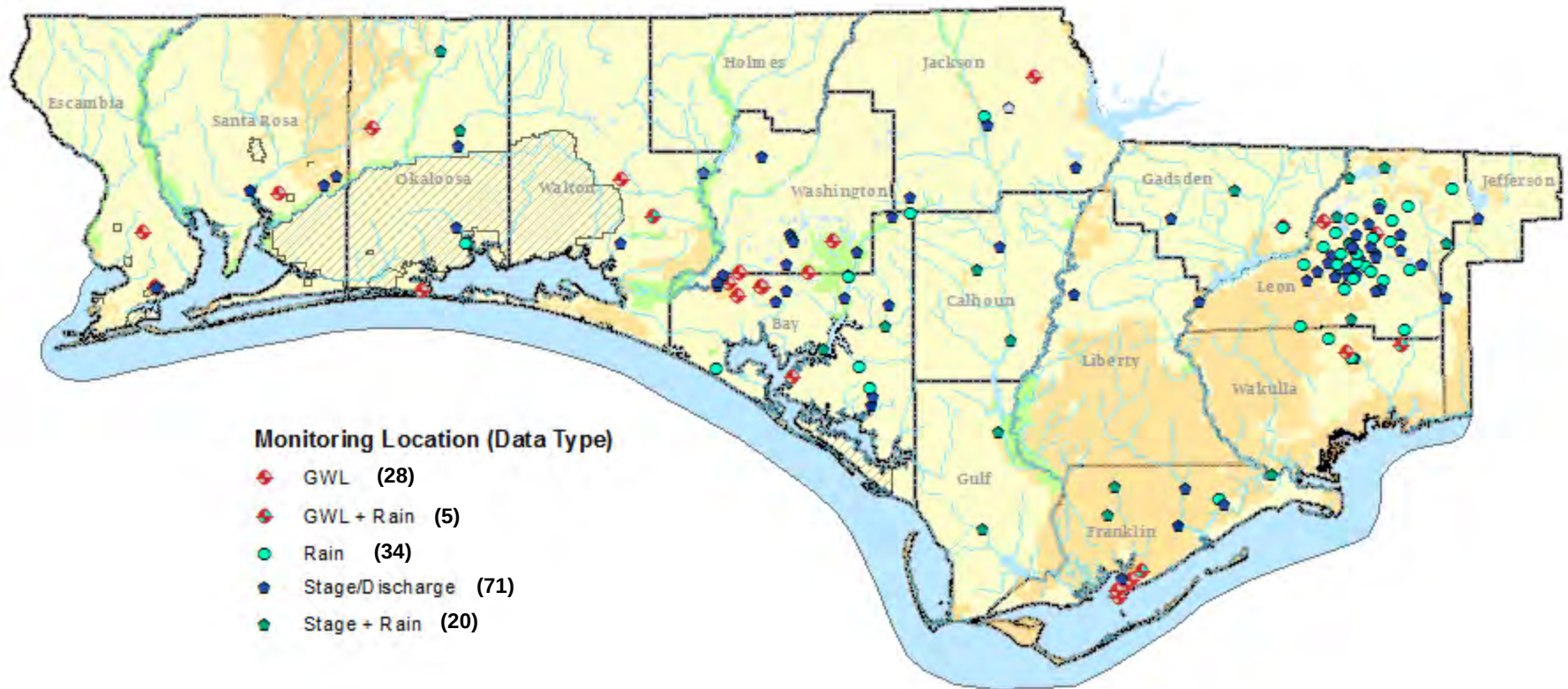
- * Hydrologic Monitoring
 - * Flood Warning
 - * Stormwater Monitoring
 - * Resource Management
 - * Wetland Restoration
 - * Springs Discharge
 - * Consumptive Use
- * Water Quality Monitoring
 - * FDEP Status and TV Networks
 - * Saltwater Intrusion
 - * Resource Evaluation
 - * Recreation Area Coliform Sampling

Hydrologic Monitoring

- * 43 Flood Warning Stations
 - * City of Tallahassee Alert Network
 - * Capital Area Flood Warning Network
 - * FDEM Flood Warning Grant
- * 38 Stormwater Management Stations
 - * Leon County-City of Tallahassee
 - * Bay County
- * 77 Resource Management Stations
 - * Ground Water
 - * Surface Water
 - * Precipitation

158 Total Active Continuous Monitoring Stations

Continuous Hydrologic Monitoring Stations



Hydrologic Monitoring Sites



NWFWMD Web Site

<http://www.nwfwmd.state.fl.us/>

NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT

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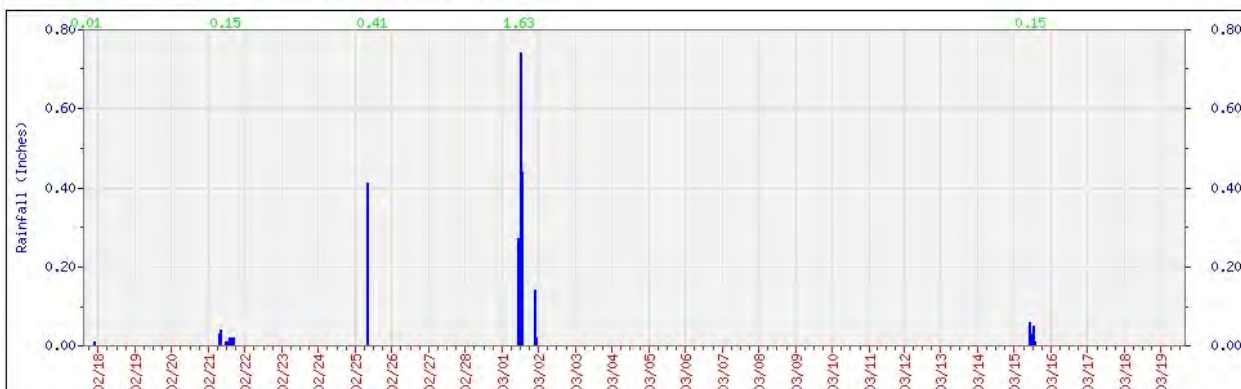
: Home Page

Yellow River at State Road 2, Okaloosa County, Florida

Click on the station name to view a map of the station location.

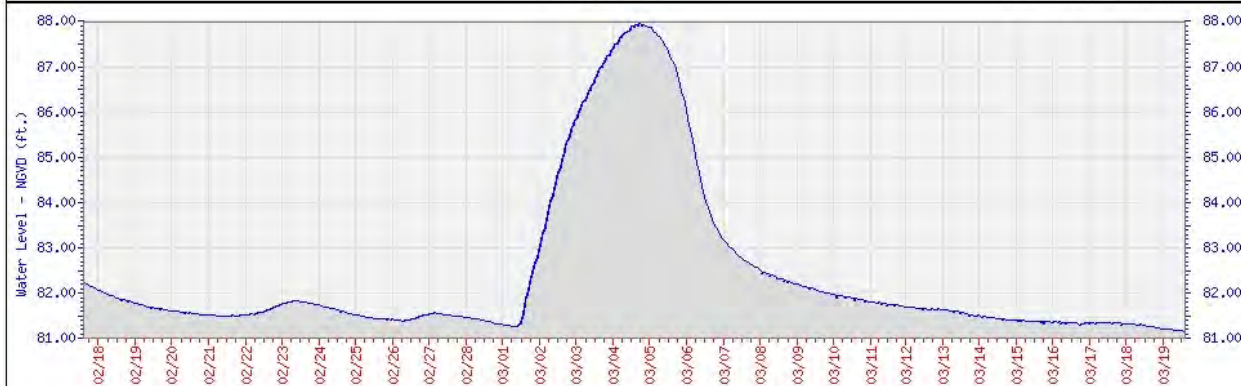
Updated hourly at half past the hour.

THE DATA REPRESENTED ARE PROVISIONAL AND SUBJECT TO CHANGE.



Northwest Florida Water Management District
Yellow River @ State Road 2 - Hourly Rainfall
Station: 365

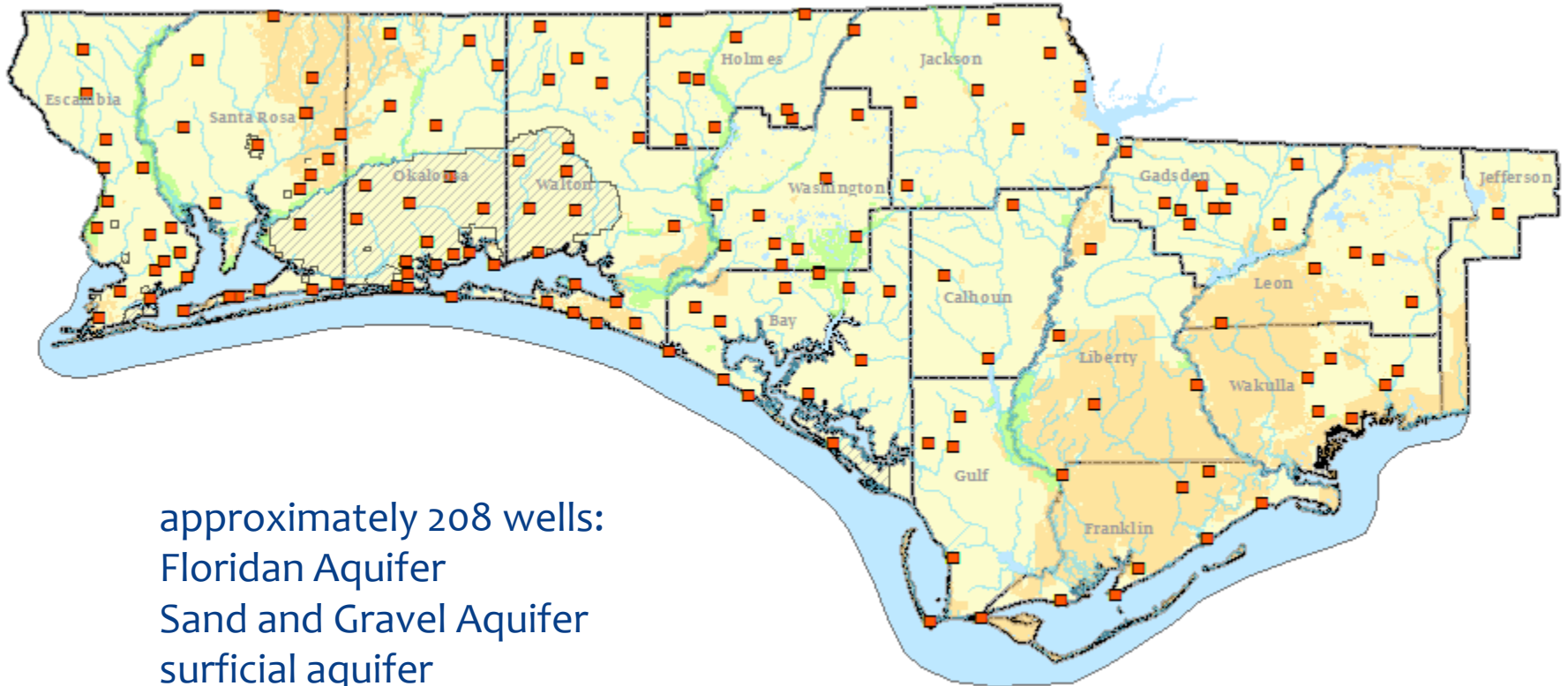
Data ending: 03/19/2007 14:15 CDT



Northwest Florida Water Management District
Yellow River @ State Road 2 - Water Levels
Station: 365

Data ending: 03/19/2007 14:00 CDT

Quarterly Ground Water Level Stations



approximately 208 wells:
Floridan Aquifer
Sand and Gravel Aquifer
surficial aquifer
intermediate aquifer

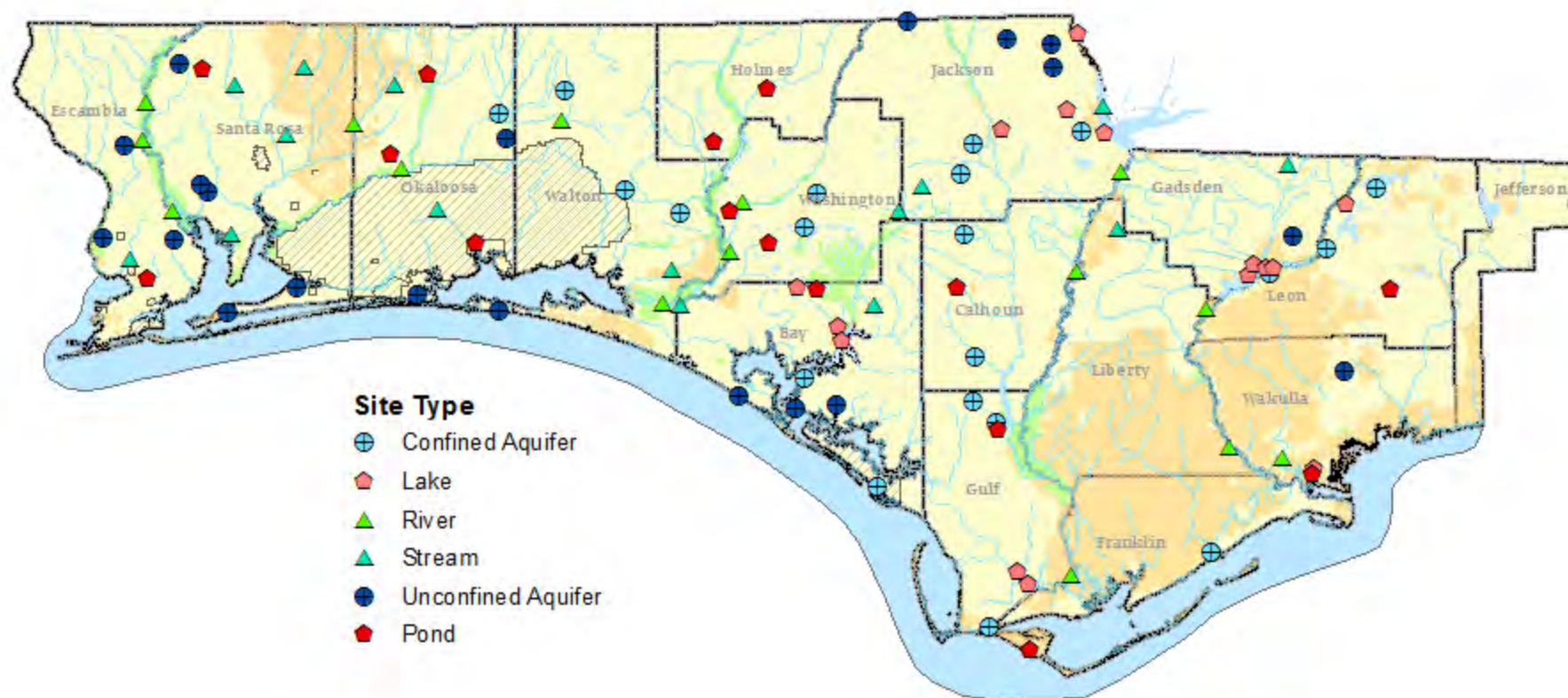
NFWMD Water Quality Monitoring

- * Participation in the FDEP Temporal Variability (34 monthly sample locations) and Status (100 random sample locations) Networks



Surface Water and Ground Water Temporal Variability Sampling Locations

2012 Status Network



60 samples from surface water resources (lakes, ponds, streams, and rivers - 15 each resource)
40 samples from unconfined and confined aquifer sites (20 each resource)

Water Quality Parameters – Analysis Conducted By FDEP Laboratory

Ground Water Quality

Alkalinity, Total (as CaCO₃)
 Aluminum, Total
 Ammonia, Total (as N)
 Ammonia+Organic Nitrogen, Total (as N)
 Arsenic, Total
 Boron, Total
 Cadmium, Total
 Calcium, Total
 Chloride, Total
 Chromium, Total
 Coliform, Fecal (MF)
 Coliform, Total (MF)
 Color (true)
 Copper, Total
 Fluoride, Total
 Hardness, calculated as CaCO₃
 Iron, Total
 Lead, Total
 Magnesium, Total
 Manganese, Total
 Molybdenum, total
 Nitrate+Nitrite, Total (as N)
 Organic Carbon, Total
 Phosphorus, Total (as P)
 Potassium, Total
 Sodium, Total
 Specific Conductance
 Sucralose
 Sulfate, Total
 Total Dissolved Solids (TDS measured)
 Turbidity
 Zinc, Total
 Oxygen, Dissolved, Field
 pH, Field
 Specific Conductance, Field
 Turbidity, Field
 Water Temperature

Stream/River Water Quality

Alkalinity, Total (as CaCO₃)
 Ammonia, Total (as N)
 Ammonia+Organic Nitrogen, Total (as N)
 Boron, Total
 Calcium, Total
 Chloride, Total
 Chlorophyll/Pheophytin Ratio
 Chlorophyll-A (Monochromatic)
 Chlorophyll-A Uncorrected, (Trichromatic)
 Coliform, Fecal (MF)
 Color (true)
 Enterococci, Membrane Filter
 Fluoride, Total
 Hardness, calculated as CaCO₃
 Magnesium, Total
 Nitrate+Nitrite, Total (as N)
 Organic Carbon, Total
 Pheophytin-A (Monochromatic)
 Phosphorus, Total (as P)
 Potassium, Total
 Sodium, Total
 Specific Conductance
 Sucralose
 Sulfate, Total
 Total Dissolved Solids (TDS measured)
 Total Suspended Solids (TSS)
 Turbidity
 Habitat Assessment/Stream Condition Index
 Oxygen, Dissolved, Field
 pH, Field
 Specific Conductance, Field
 Transparency (Secchi Depth)
 Water Temperature

Lake Water Quality

Turbidity
 Color (true)
 Specific Conductance
 Alkalinity, Total (as CaCO₃)
 Total Suspended Solids (TSS)
 Ammonia, Total (as N)
 Ammonia+Organic Nitrogen, Total (as N)
 Kjeldahl Nitrogen, Total (as N) Sediment
 Nitrate+Nitrite, Total (as N)
 Phosphorus, Total (as P)
 Phosphorus, Total (as P) Sediment
 Organic Carbon, Total
 Calcium, Total
 Magnesium, Total
 Sodium, Total
 Potassium, Total
 Chloride, Total
 Sulfate, Total
 Fluoride, Total
 Boron, Total
 Coliform, Fecal (MF)
 Enterococci, Membrane Filter
 Chlorophyll-A Uncorrected, (Trichromatic)
 Chlorophyll-A (Monochromatic)
 Pheophytin-A (Monochromatic)
 Chlorophyll/Pheophytin Ratio
 Carbon, Total Sediments
 Hardness, calculated as CaCO₃
 Total Dissolved Solids (TDS measured)
 Sucralose
 Oxygen, Dissolved, Field
 pH, Field
 Specific Conductance, Field
 Transparency (Secchi Depth)
 Water Temperature

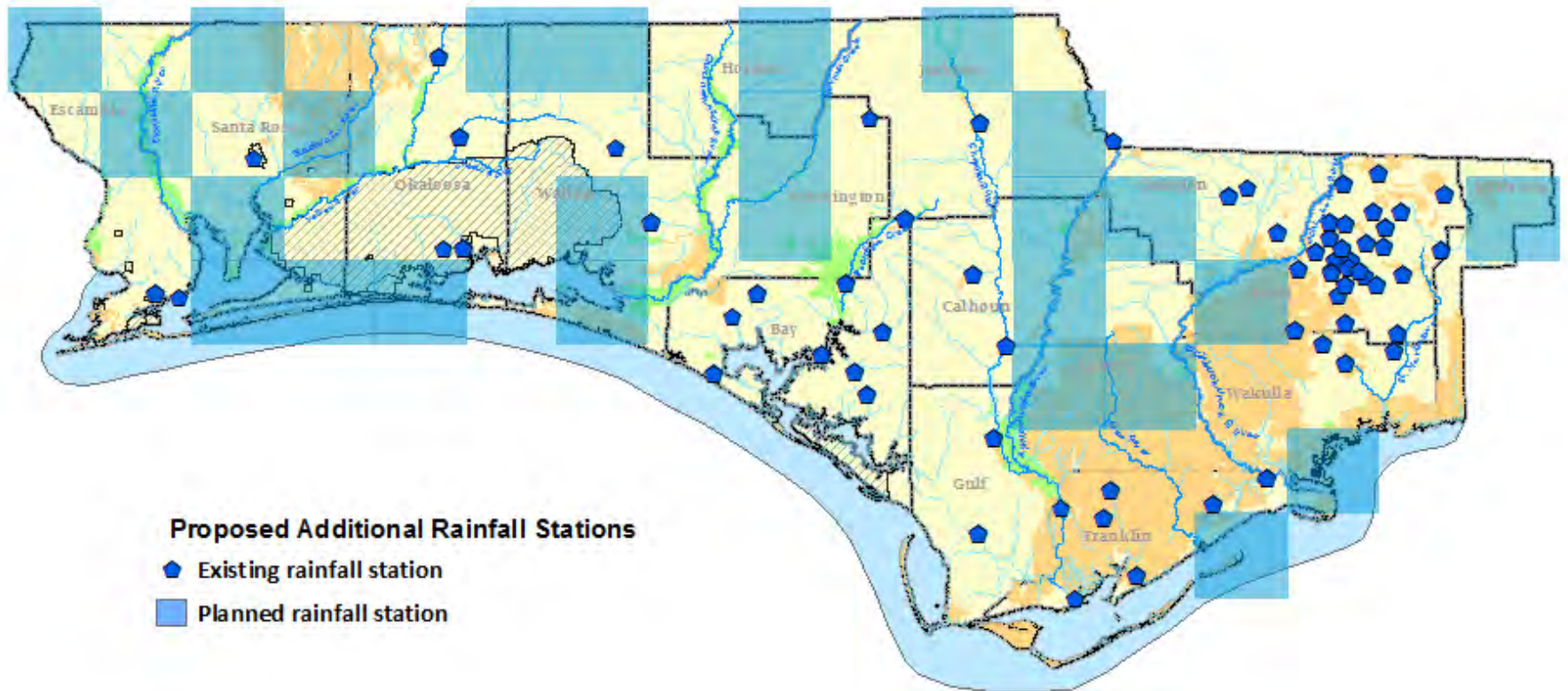
Lake Sediments

Mercury Sediments
 Inorganic Carbon, Total Sediments
 Organic Carbon, Total Sediments
 Methylmercury Sediments
 Sulfate, Sediments
 Chromium Sediments
 Cadmium Sediments
 Zinc Sediments
 Arsenic Sediments
 Silver Sediments
 Nickel Sediments
 Lead Sediments
 Iron Sediments
 Copper Sediments
 Aluminum Sediments

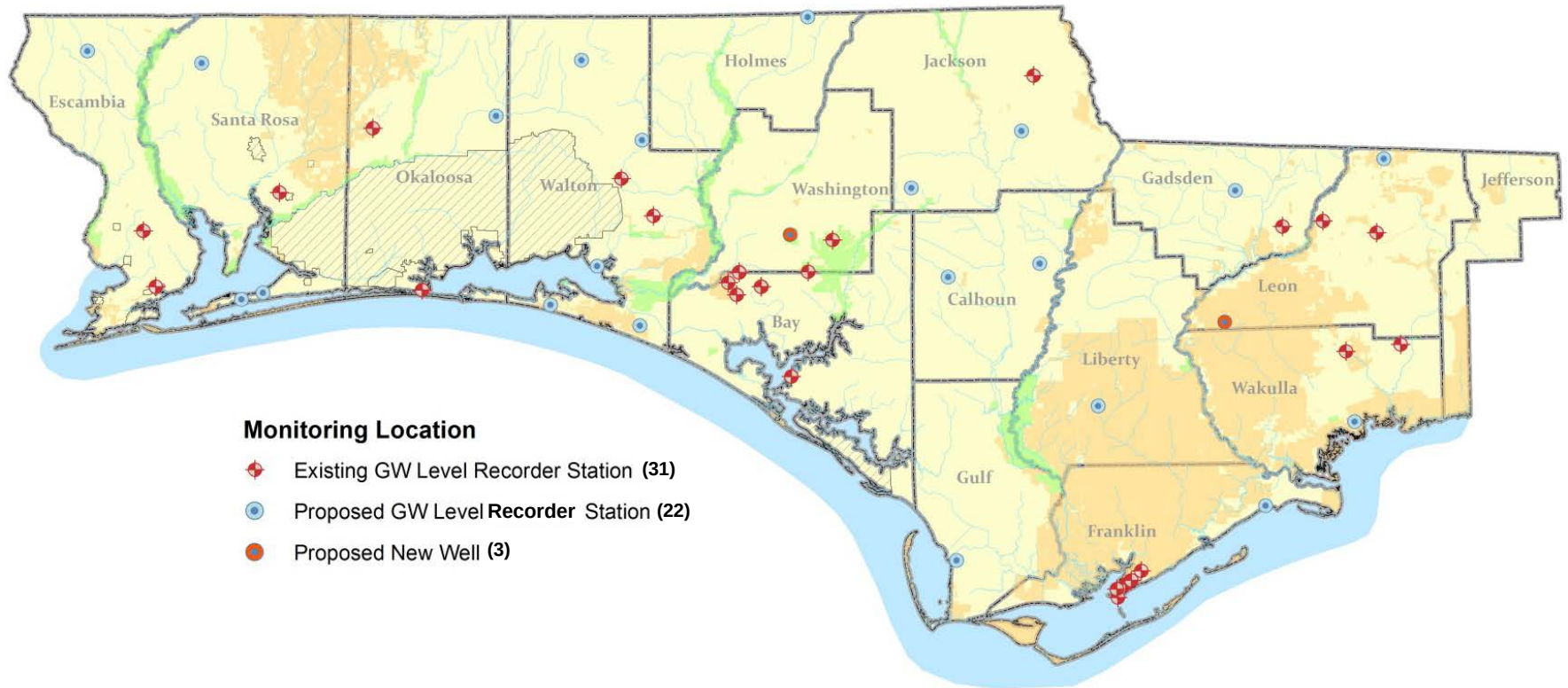
2013-2014 Monitoring Expansion

- * Increased monitoring to support water supply assessing and planning.
- * Expand real-time monitoring network
- * Wetland-ground water interaction
- * Regional ground water flow and cumulative impact models
- * Minimum Flows and Levels

Additional Rainfall Stations



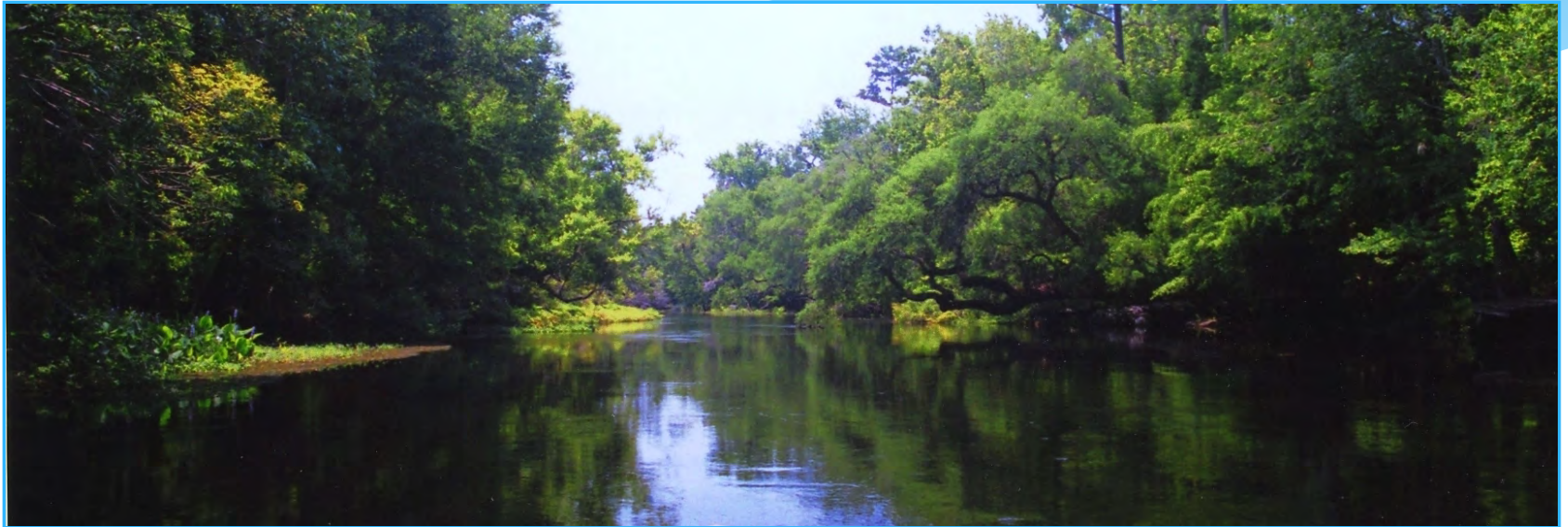
Ground Water Level



Ground Water Quality



Questions?



Tony Countryman
Northwest Florida Water Management District