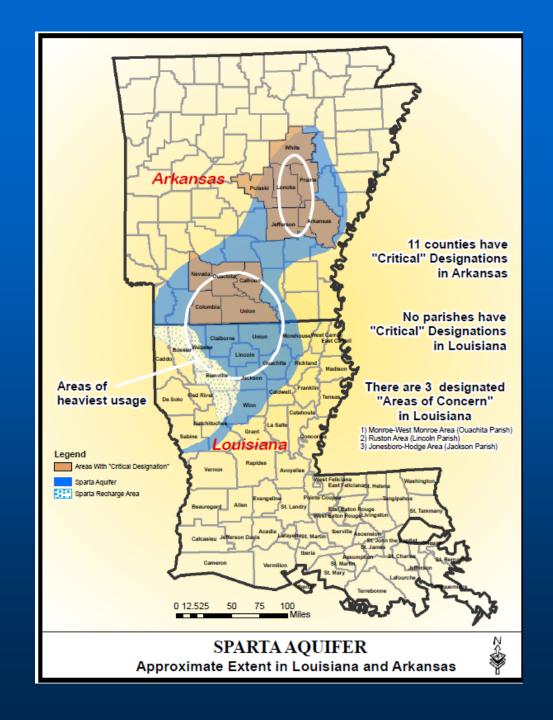


Map of the United States showing cumulative groundwater depletion, 1990 through 2008, in 40 assessed aquifer systems or subareas.

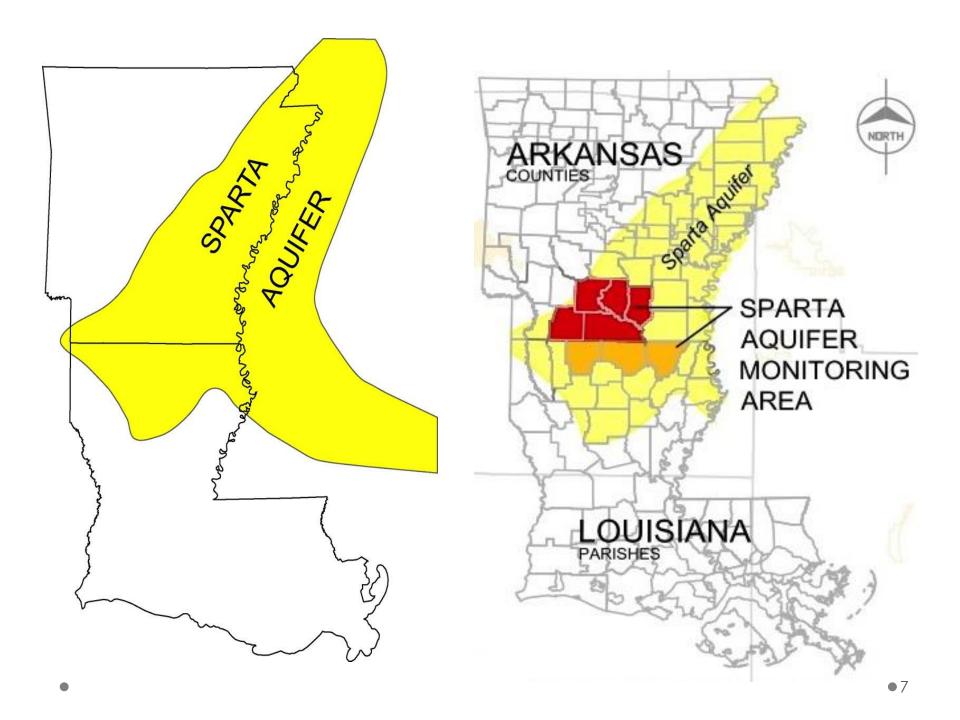


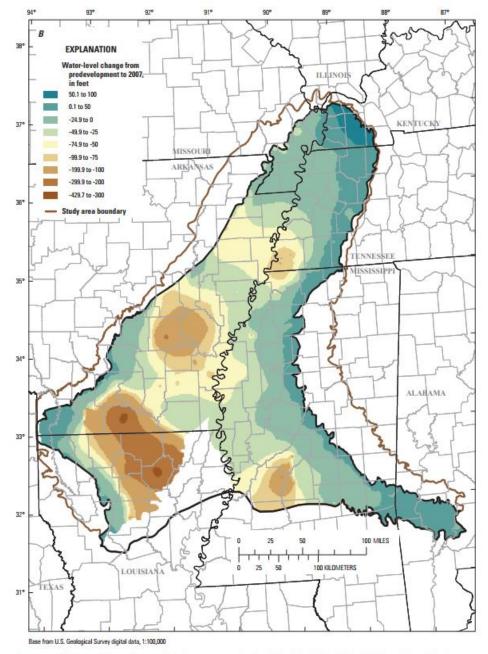
Background on Sparta Aquifer

- 1960 to Present USGS reports declining Ground Water Levels in aquifer
- 1999 Louisiana Legislature created Sparta Groundwater Conservation District
 - Evaluate problem
 - Make recommendations
- 2002 Sparta Groundwater Conservation District Report
 - Sustainable yield ~ 52 MGD
 - Withdrawal demand ~ 70 MGD
 - Recommend Reduction ~ 30MGD
 - Recommends 5 projects to close 30 MGD deficit

Union-Lincoln Regional Water Supply Initiative

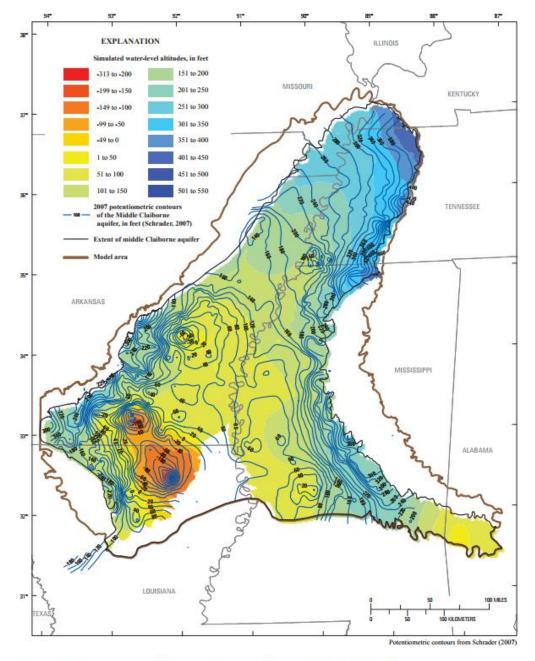
- Formed in 2003
- Includes the following members
 - Union Parish Policy Jury
 - Lincoln Parish Police Jury
 - Town of Farmerville
 - City of Ruston





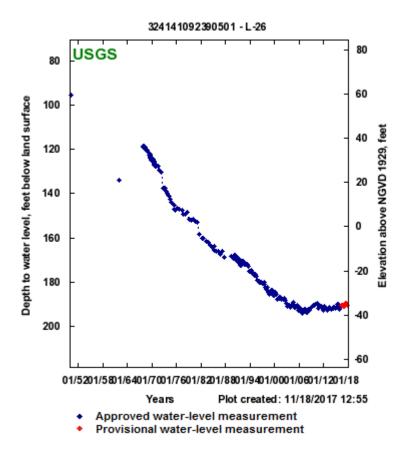
Water Level Change from Predevelopment to 2007

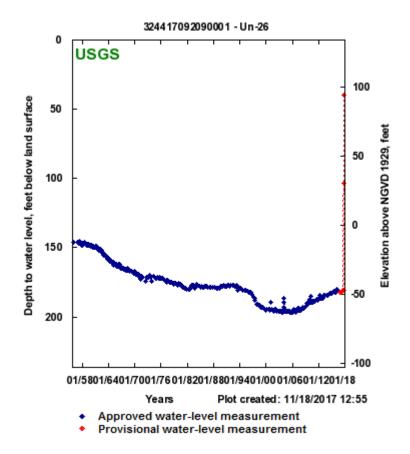
Figure 14. Water-level change from predevelopment to 2007 in the A, Mississippi River Valley alluvial aquifer and B, the middle Claiborne aquifer.—Continued



Simulated water level altitudes, in feet

Figure 17. Potentiometric surface and simulated water levels for the middle Claiborne aquifer, 2007.

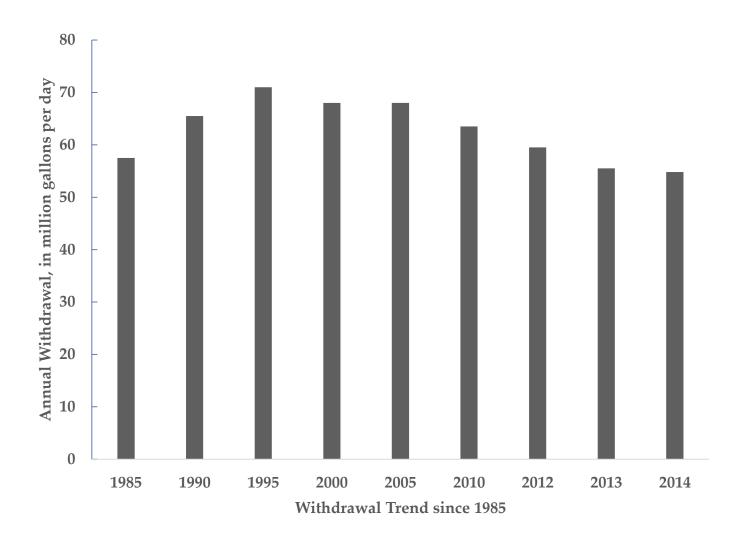




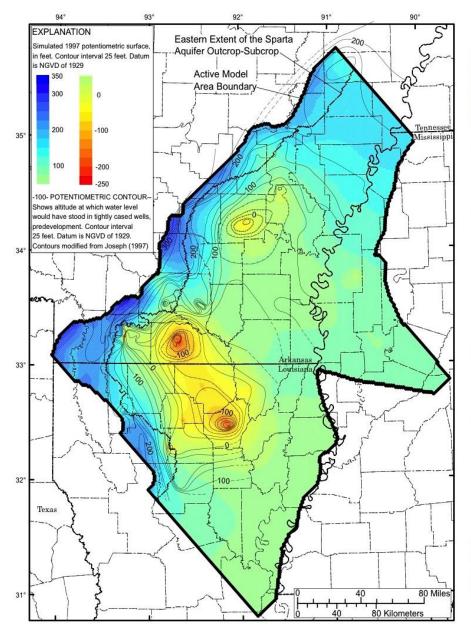
USGS Well L-26 in Lincoln Parish

USGS Well U-26 in Union Parish

Depth to water level over time



Sparta Aquifer Withdrawals

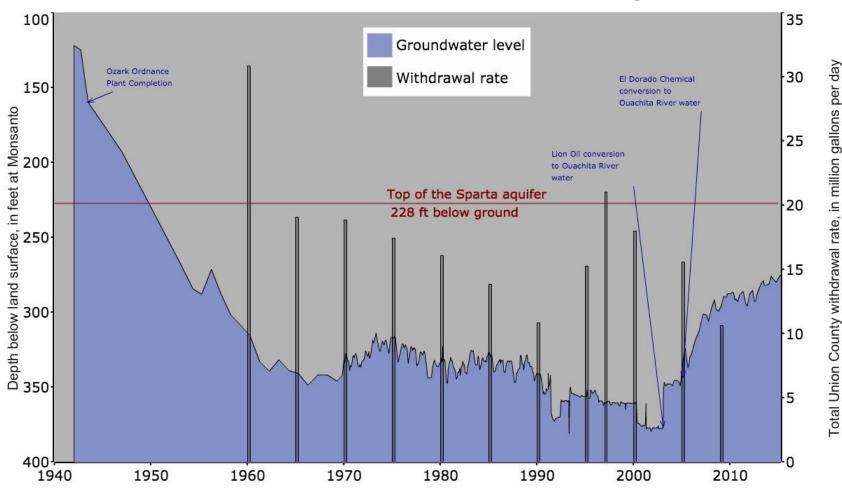


Problem – 1996: Union County's only source of drinking & industrial water — was declining rapidly and met Critical Groundwater criteria

- Groundwater levels declining
 1'+ per year for 5 previous years
- Water quality degradation or threat
- Groundwater levels at or below top of aquifer

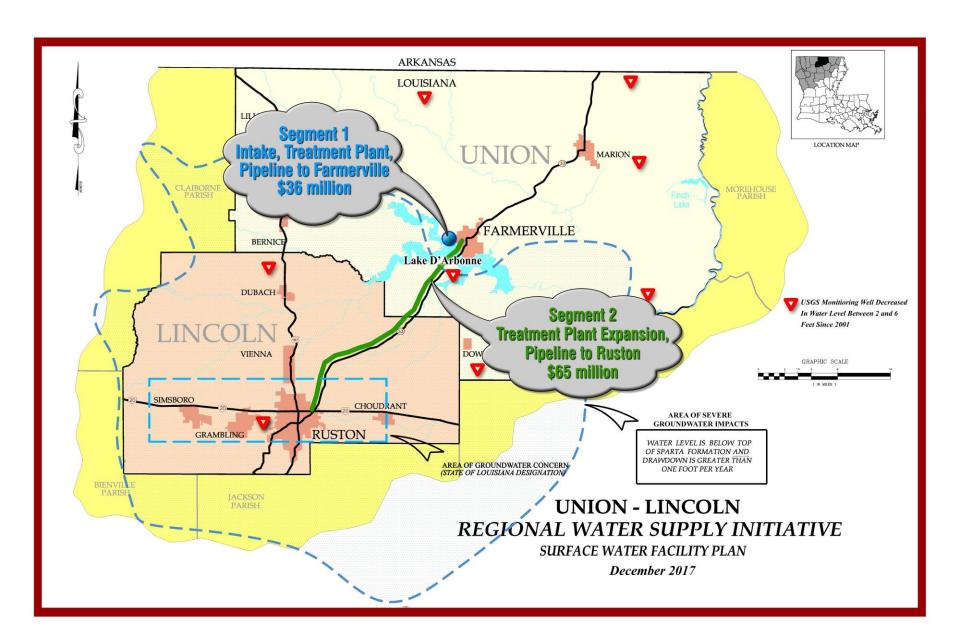
No time to waste. Help ourselves. Go it alone.

USGS Monsanto Real-Time Monitoring Well



Groundwater Levels 1942 – 2016 Total Union County Groundwater Usage 1960 - 2016 Aquifer Test Pumping Well in 1947 - 1999 – 2012 Interactive at www.ucwcb.org

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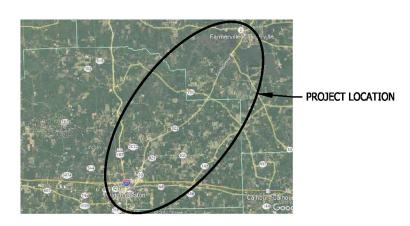
• 14

L7039 - ULRWST,2 - Panning-Design Phaer,D - Crawings/DWG|,Intor-Uncoin Water Supply dwg, Cover Sheet, 124/2017 DWG TO POF,p.C.), 1:1

UNION-LINCOLN REGIONAL WATER SUPPLY INITIATIVE SEGMENT 1 AND SEGMENT 2 UNION-LINCOLN PARISH, LOUISIANA

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SCHEMATIC DESIGN PLANS

NOVEMBER 2017





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LOT 3

LOT 2

APPROXIMATE BATHYMETRIC

SURVEY LIMITS

TI(U-UNS)(01709 - ULKNST). - Planning-Design Phase). - Denvings(DWO)(Into-Uncoln Water SupplyAng, Bethyendor; Mag, 12/4/207 10-42:16 Anthon, Done, DWO TO FOR EX. 1.1 WAGGONER

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PROPOSED WATER STREATMENT PLANT