

South Arkansas Sparta Aquifer Recovery Initiative

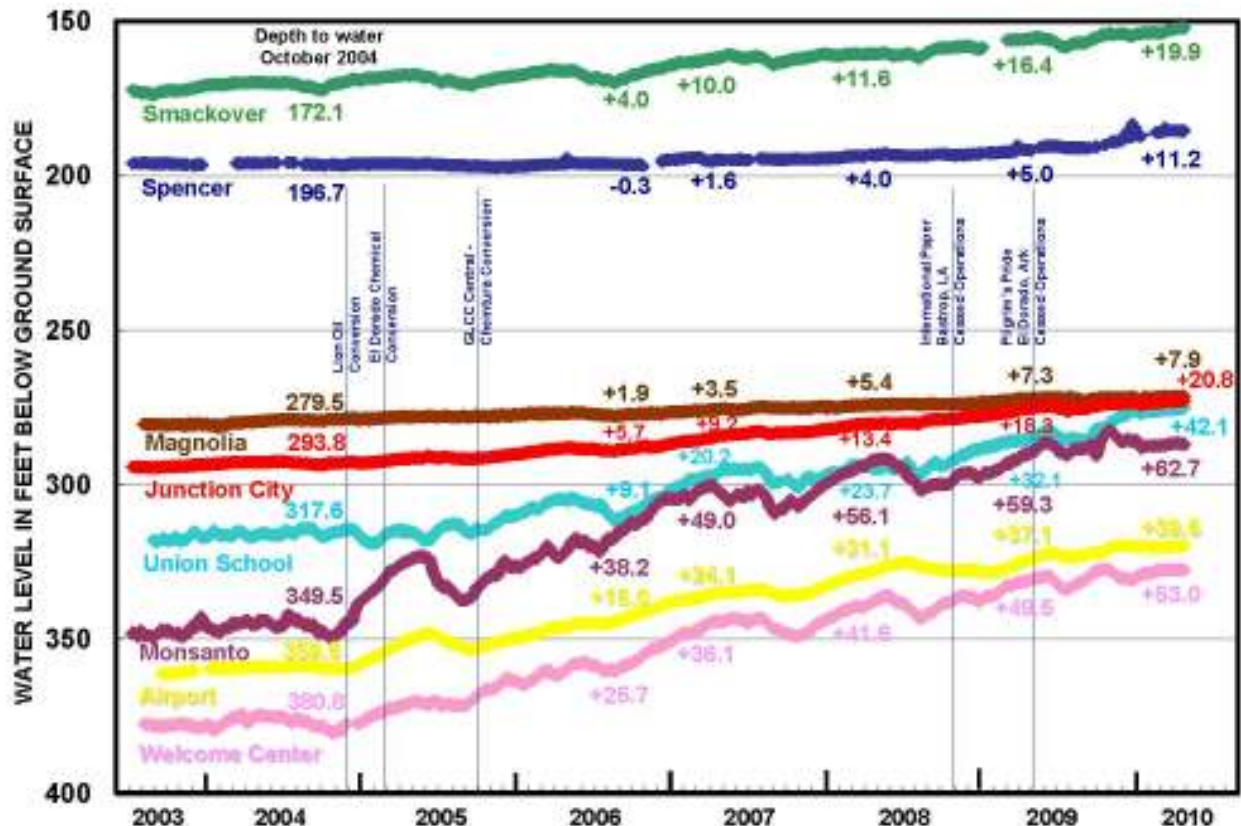
Ouachita River Alternative Water Supply Project

Union County Water Conservation Board

“Well levels in Arkansas are rising for the first time in 60 years.”
Randy Young, Executive Director
 Arkansas Natural Resources Commission
 December 20, 2005

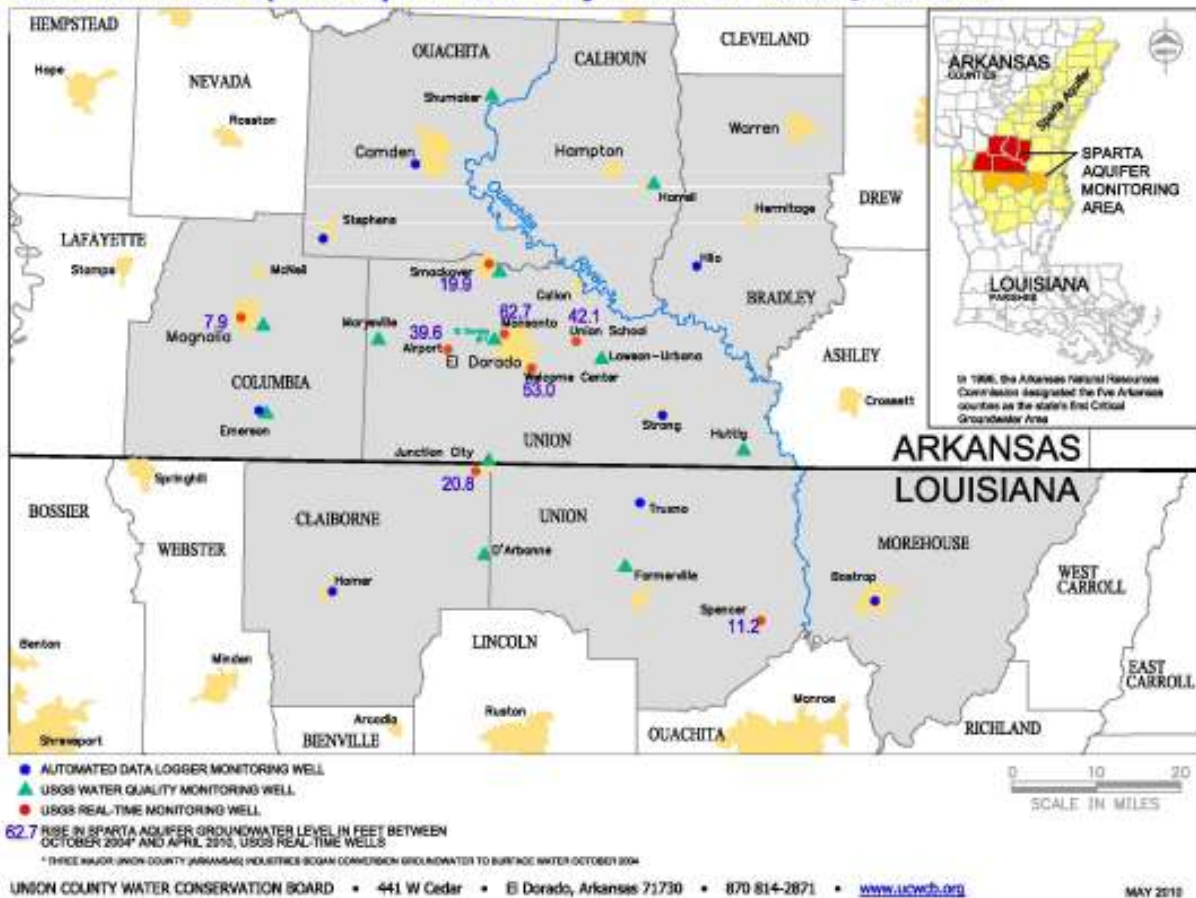
Water level change in 8 USGS real-time wells since Oct 2004 (rise in feet)

	October 2006	April 2007	April 2008	April 2009	April 2010
Smackover	4.0	10.0	11.6	16.4	19.9
Spencer (LA)	-0.30	1.6	4.0	5.0	11.2
Magnolia	1.9	3.5	5.4	7.3	7.9
Junction City (LA)	5.7	9.2	13.4	18.3	20.8
Union School	9.1	20.2	23.7	32.1	42.1
Monsanto	38.2	49.0	56.1	59.3	62.7
Airport	18.0	24.1	31.1	37.1	39.6
Welcome Center	25.7	36.1	41.6	49.5	53.0



USGS Real Time Wells; Source Dave Freiwald, USGS

South Arkansas Sparta Aquifer Recovery Initiative - Monitoring Well Network



Automated Data Logger Well: Transducer on each well automatically measures groundwater levels once daily. UCCD collects data monthly and it is posted to the Board's web site - www.ucwcb.org

USGS Water Quality Monitoring Well: USGS collects samples to test for chlorides twice (2X) annually in January and July. Results are posted to www.ucwcb.org

USGS Real-Time Well: Automatically measures and via solar-powered modum transmits Sparta ground water levels in real time four times (4X) daily to the USGS and Board web sites. USGS measures water levels manually each April. Results are posted to www.ucwcb.org

UNION COUNTY WATER CONSERVATION BOARD www.ucwcb.org

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Mission Statement: The guiding purpose and primary objective of the Union County Water Conservation Board is to conserve, protect, and maintain the Sparta Formation Aquifer as a continuing source of high quality, potable water for current and future consumers by providing for affordable, alternate sources of fresh

water pursuant to the authority and responsibility granted by the State of Arkansas.