

Update to Montague County Commissioners Court

March 13, 2017

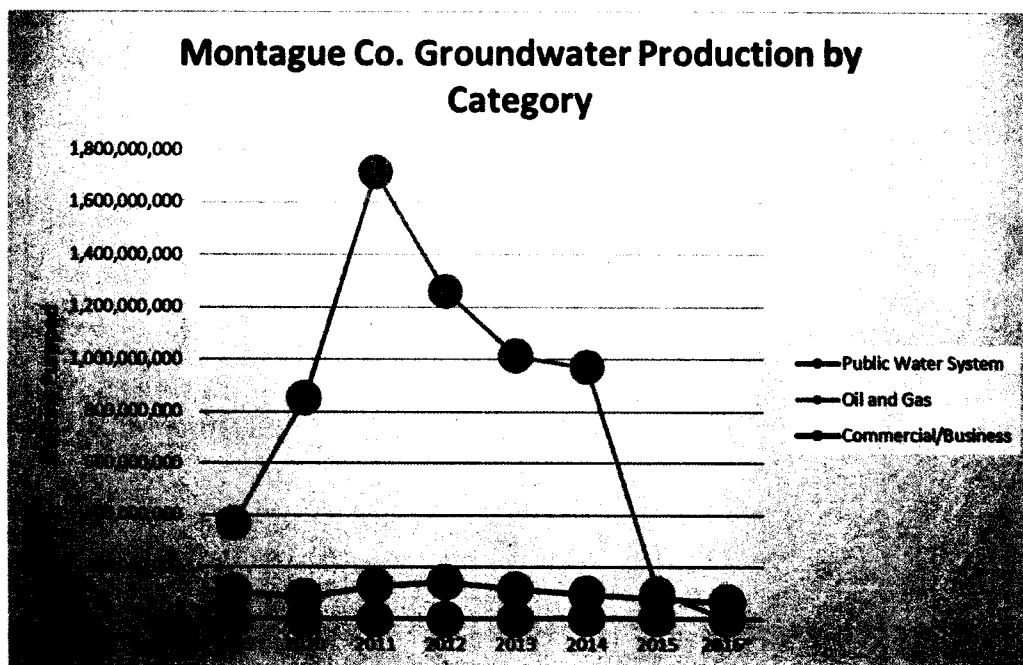
Upper Trinity Groundwater Conservation District – (817) 523-5200

- Groundwater Production in Montague County;
- Update on Water Level Monitoring;
- Update on Groundwater Management Area 8 and the Adoption of Desired Future Conditions;
- Development of a web-based well impact tool;
- Designation by the state of the Paleozoic formation as a Minor Aquifer.

Groundwater Production in Montague County: There has been a fairly dramatic decrease in the amount of groundwater being pumped in Montague County over the last few years, this is due in large part to the reduction in oil and gas activity, and to a lesser extent the above average rainfall we have received.

*2016 production is based on reports received by the District through 3/1/2017

2011	2012	2013	2014	2015	2016	2017
107,872,730	84,557,880	128,749,130	142,507,748	114,980,020	97,244,815	66,364,379
366,714,528	851,730,235	1,713,191,572	1,259,956,606	1,011,429,778	967,943,532	833,284
763,140	922,010	977,930	871,330	1,040,713	3,442,057	1,803,566

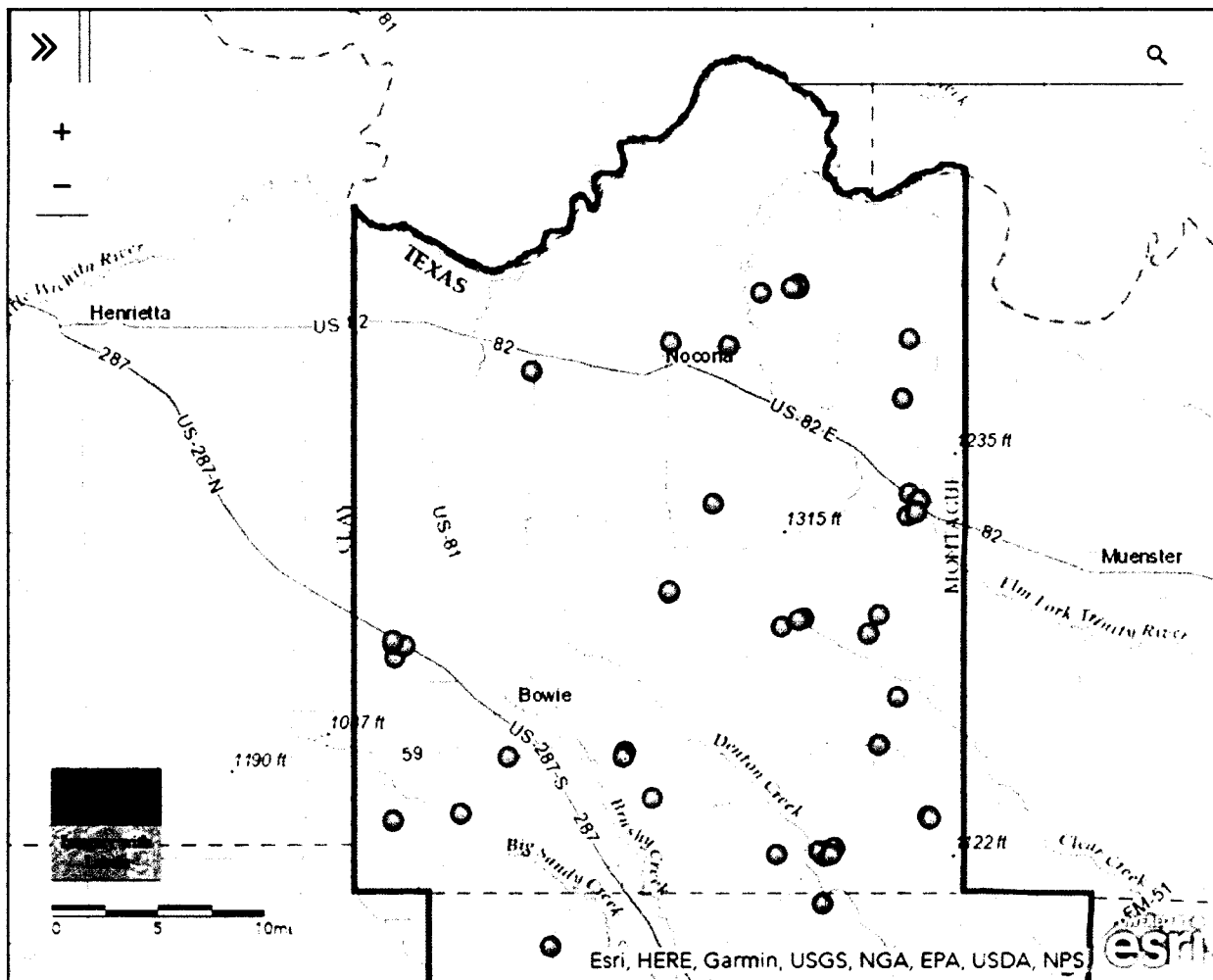


Update on Water Levels Monitoring:

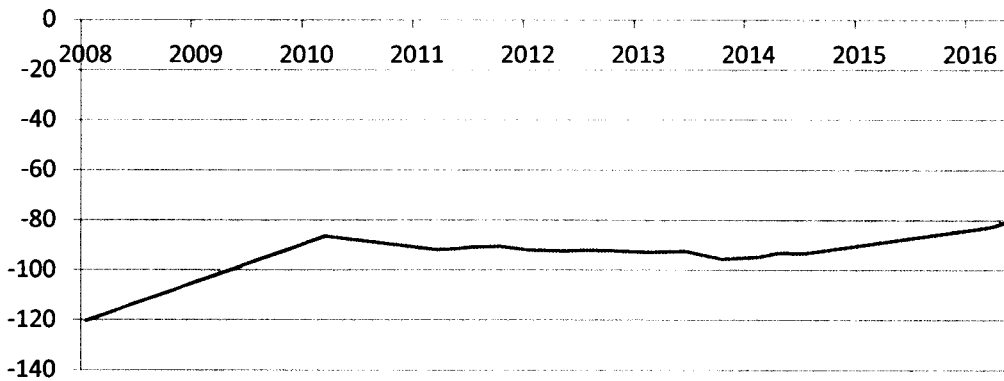
Generally speaking, in Montague County we have seen either a small increase or little to no change in underground water levels over the past few years.

UTGCD MONITORING WELL LOCATIONS

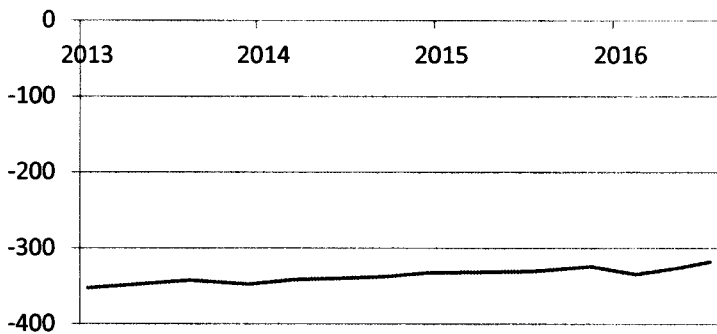
These locations are monitored and recorded by District field technicians quarterly. Please contact the District office for more information.



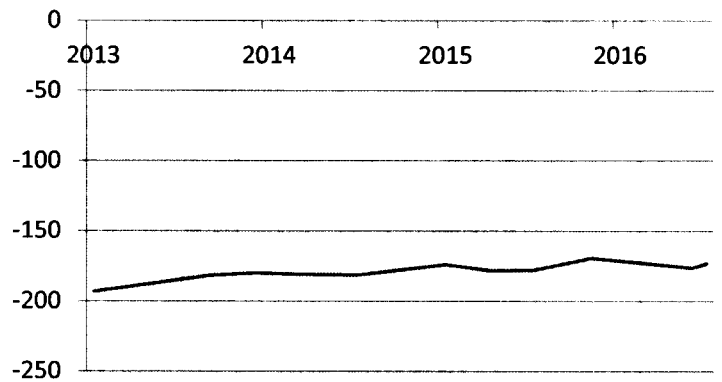
Between Montague and Forestburg (Trinity)



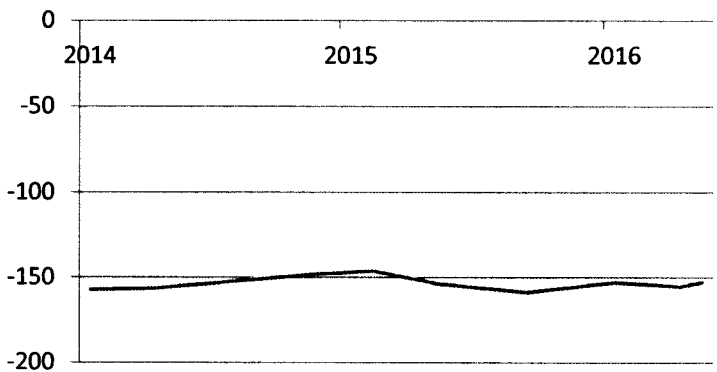
Southeast Montague County (Trinity)



East of Nocona (Paleozoic)

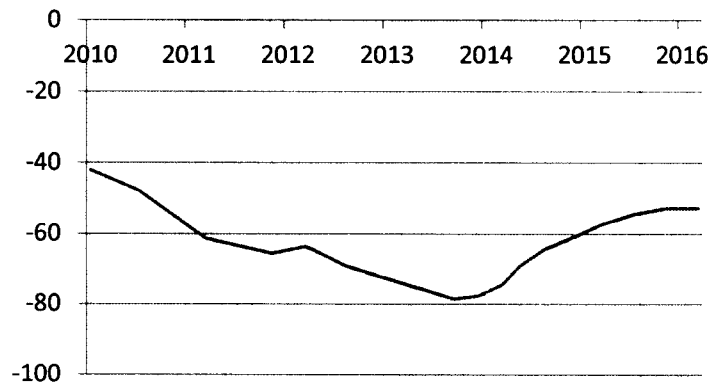


Nocona (Paleozoic)



Cross timbers Aguirre

West of Bowie (Paleozoic)



Update on Groundwater Management Area 8 and the Adoption of Desired Future Conditions:

On January 31, 2017, the District Representatives to Groundwater Management Area 8 (GMA8) met and formally adopted Desired Future Conditions (DFCs) for the GMA.

The DFCs for Montague County are no more than **18 feet** of drawdown in the Trinity Aquifer by December 31, 2070.

What are Groundwater Management Areas and Desired Future Conditions?

- A groundwater management area (GMA) is a geographic area suitable for the management of groundwater resources.
- TWDB designated 16 GMAs across the state that include all major and minor aquifers.
- The boundaries of the GMAs generally coincide with the hydrologic features of the state's major aquifers.
- Upper Trinity GCD is located in GMA 8.
- Beginning in 2005, the GCDs in each management area are charged with engaging in joint planning and developing Desired Future Conditions (DFCs) for the aquifers.
- A desired future condition (DFC) is a quantitative description, adopted in accordance with Section 36.108 of the Texas Water Code, which represents an acceptable physical state of the aquifer, or subdivisions of the aquifer, at some point in the future. In this case, the DFC represents acceptable future water level declines.

