

Autumn 2009

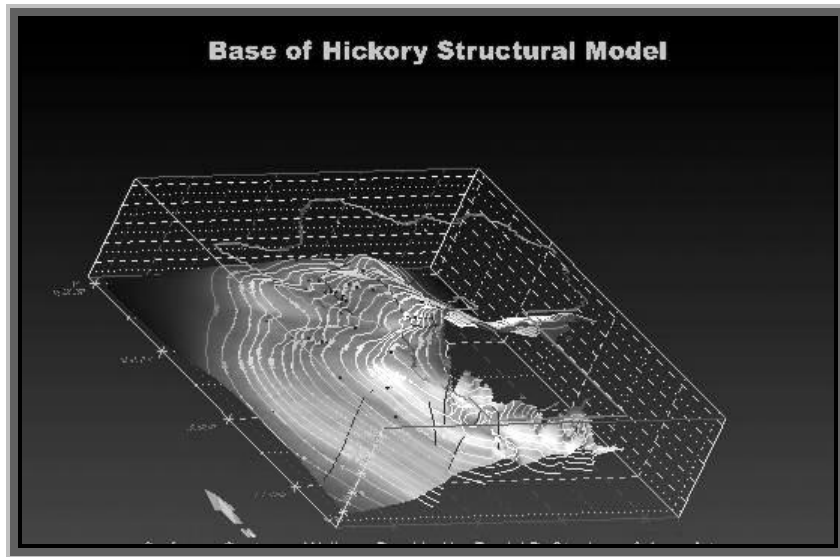


Heartbeat of the Hickory

Hydro-Geo Study

The Hickory UWCD manages many aquifers within the district. The Marble Falls, Ellenburger-San Saba, Welge-Lion Mountain, and Hickory aquifers were recently portrayed in a 3-D structural model constructed by Robert Ruggiero of Ruggiero, LLC., using the district's database of over 2,400 wells. The geology within the district is extremely complex being near the Llano Uplift, centered in Llano and Mason counties. The Uplift was geologically active during many long periods of time. The primary wells used in the study were those

with water well driller's logs and geophysical electric logs. Some of these are represented in the image, particularly the deeper ones that penetrated the Hickory Sandstone. The modeling effort will ultimately provide volumes of water within the aquifers, helping determine manageable resources. In addition, the geological variability, especially faulting patterns and differences in the quality of the aquifers, major factors which determine well production, can be displayed in an easily understood model.



Screen shot of 3-D Model 1

Poster Contest 2010

This year's theme is "Rainwater Harvesting". The contest is open to all 4th and 5th graders in the District. Prizes are Walmart Gift Cards. The deadline is Friday, January 8, 2010. Details area available at the District Office and will be sent to area schools.

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What makes the desert beautiful is that somewhere it hides a well. ~Antoine de Saint-Exupery

U.S. Drought Monitor

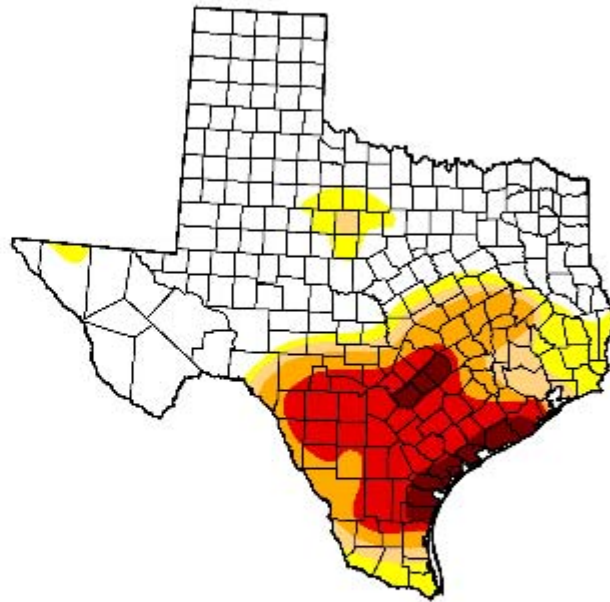
Texas

September 15, 2009

Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	60.7	39.3	30.6	25.2	15.8	3.4
Last Week (09/08/2009 map)	51.5	48.5	35.8	28.5	24.9	16.1
3 Months Ago (06/23/2009 map)	29.7	70.3	38.9	24.1	15.5	8.2
Start of Calendar Year (01/06/2009 map)	41.7	58.3	24.5	15.0	9.1	4.2
Start of Water Year (10/07/2008 map)	67.2	32.8	20.5	11.0	3.6	0.0
One Year Ago (09/16/2008 map)	69.0	31.0	20.9	8.3	2.4	0.0



Intensity:

- D0 Abnormally Dry
- D1 Drought - Moderate
- D2 Drought - Severe
- D3 Drought - Extreme
- D4 Drought - Exceptional

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements

<http://drought.unl.edu/dm>



Released Thursday, September 17, 2009

Author: Anthony Artusa, CPC/NOAA

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Until the end of August, rainfall totals for the area ranged from 16 inches to 20 inches. In September, these same areas received anywhere from 3 to 4 inches. This does not mean the drought is over. According to the Climate Prediction Center, the chance of moderate to severe drought through the end of October 2009 in the Edwards-Plateau region is still 59%.

What is Drought? There are several different definitions for "drought".

Meteorological drought is a prolonged period of below average precipitation.

Agricultural drought is when moisture is insufficient for average production of crops or grasses.

Hydrological drought occurs when the levels in aquifers, reservoirs, lakes, etc. fall below demand.

Population Projections for Counties in Hickory UWCD from TWDB, 2006 Regional Water Plan

County	2000 Census	2010	2020	2030	2040	2050	2060
Concho	3,966	4,467	4,628	4,628	4,628	4,628	4,628
Kimble	4,468	4,660	4,702	4,702	4,705	4,702	4,702
McCulloch	8,205	8,235	8,377	8,377	8,377	8,377	8,377
Mason	3,738	3,817	3,856	3,876	3,886	3,891	3,896
Menard	2,360	2,493	2,528	2,528	2,528	2,528	2,528
San Saba	6,186	6,387	6,746	7,059	7,332	7,365	7,409