## Texas Drought 2010-2011

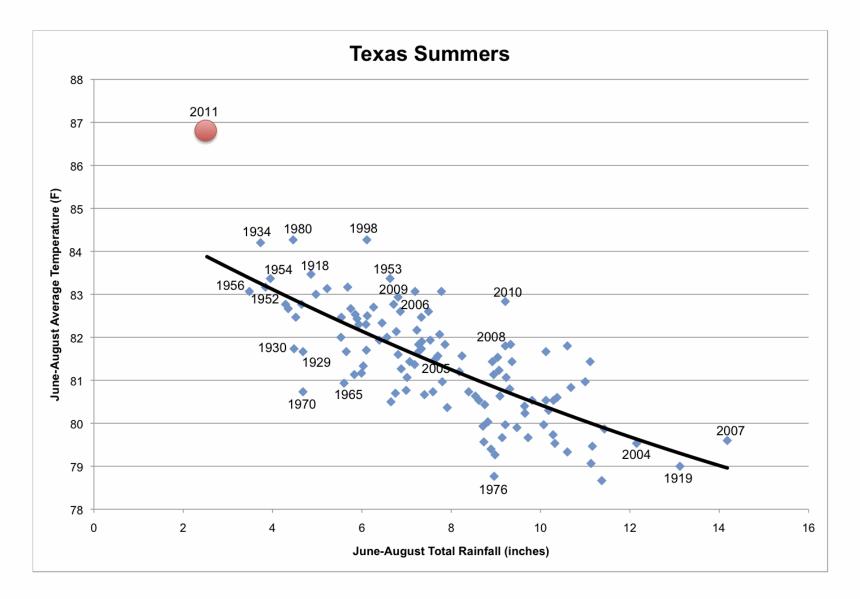
## Texas Drought Purpose of Brief

Informal Situational brief for Federal partners.

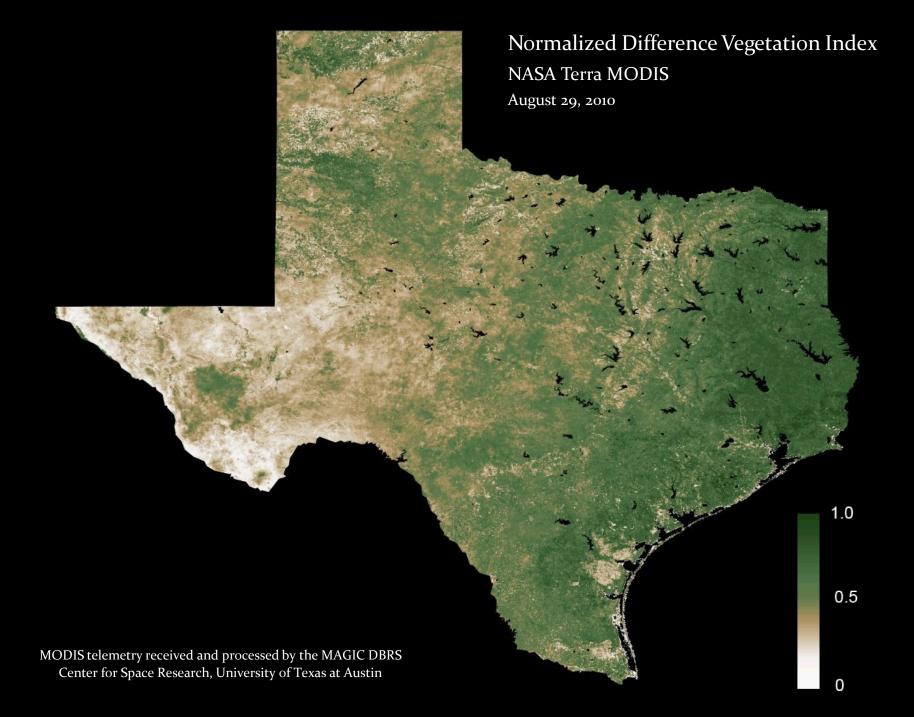
 Goal of the activity is to initiate appropriate contingency planning and information gathering at the Federal level to support Texas.

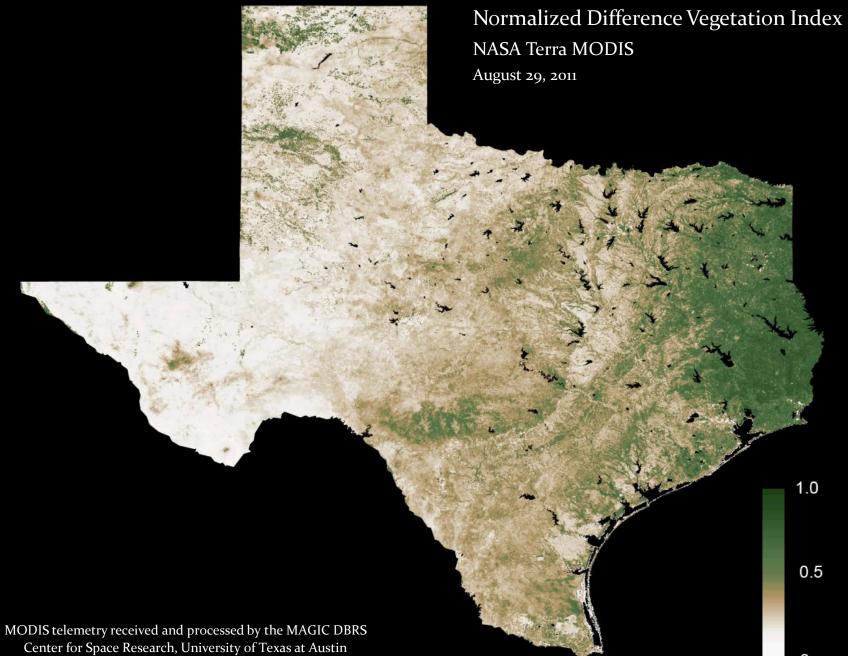
Texas is in the middle of an unprecedented weather phenomena with possible national implications!

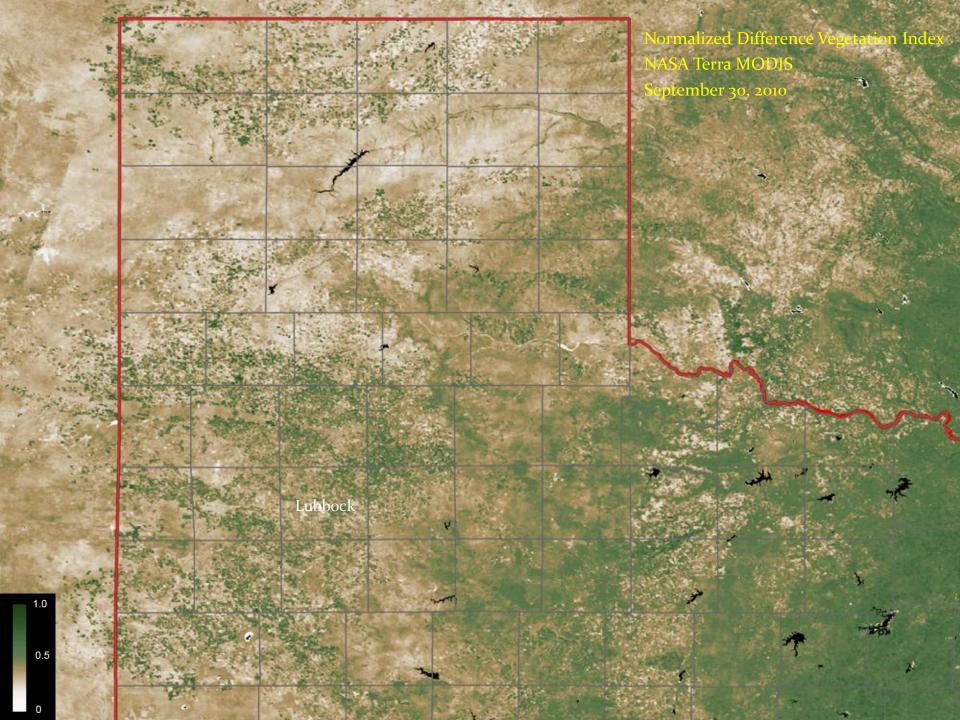
- 2011 is the worst one year drought in Texas history.
- It has been described as a **500 year drought**.

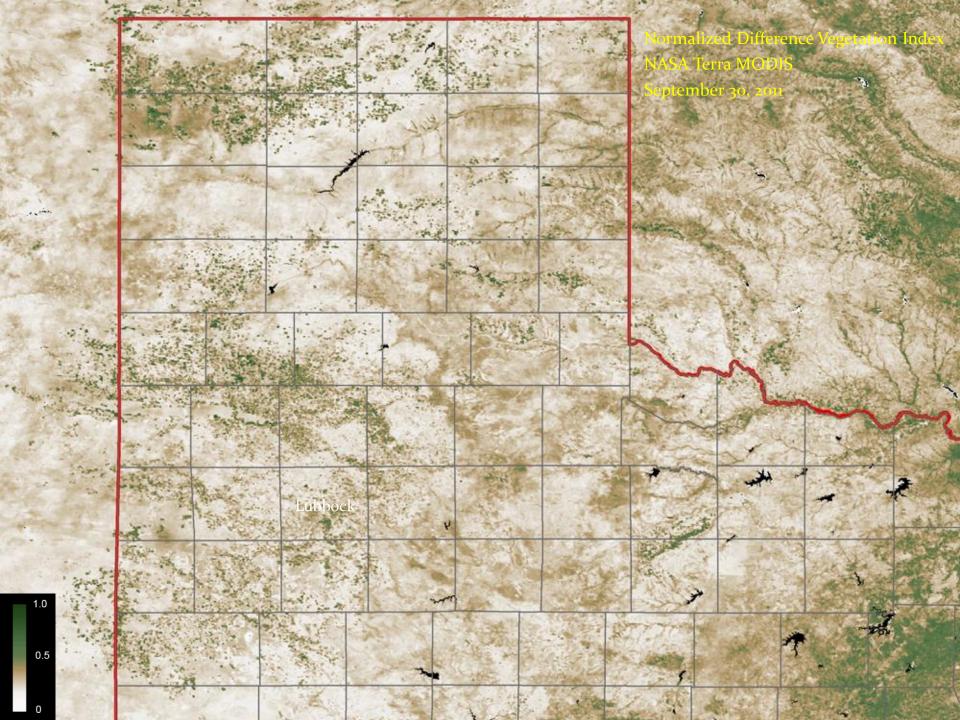


John Nielson-Gammon, State Climatologist

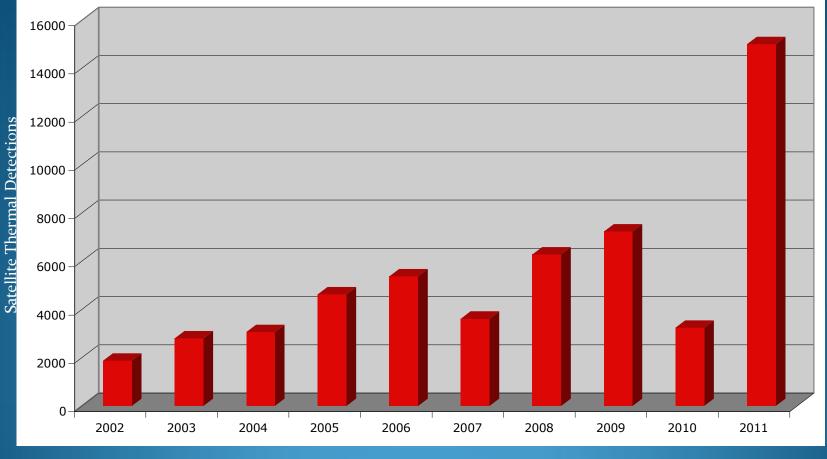








#### January - September Satellite Thermal Detections, 2002-2011



Year

NASA MODIS thermal detections (Fire Radiative Power >1 megawatt) in Texas collected by the MAGIC DBRS, University of Texas at Austin

# According to most forecasters, Texas is entering into another La Nina situation!

Cascading Effects:

Cities running out of water.

Groesbeck, Tx

- Surface Water only.
- Upstream of a reservoir.
- Water supply *was* estimated to be depleted the first week of December.
- Effected population is 6000.

There are between 100 -200 systems in Texas that are

- Surface water only.
- Upstream of a reservoir.

#### Pendleton Harbor, Texas

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**Courtesy of TCEQ** 

**Power Generating Plants** 

Water sources	Row Labels	Sum of Summer 2011 capacity in MW
with <b>(flows/levels</b>	Cedar Bayou	2044
in Oct 2011) <	Granbury	705
(2000 ->2010 min	Lake Bardwell/City of Ennis sev	vag 312
for Oct)	Lake Colorado City	407
	Lake Granbury	278
	Lake Houston	1016
	Lake Limestone	1689
	Lake Ray Hubbard	916
	Lake Texana	56
	Martin Lake Reservoir	2425
	Twin Oak Reservoir	1616
	Grand Total	11464

The loss of this amount of generating power is enough to cause rolling blackouts at a MINIMUM.

#### Information Needed on the status of:

- Refineries
- Chemical plants

The drought in Texas is massive in scale, as a state, Texas is:

- An area larger than France.
- Has a greater population than that of Australia.

In short, the drought is a **national problem**.