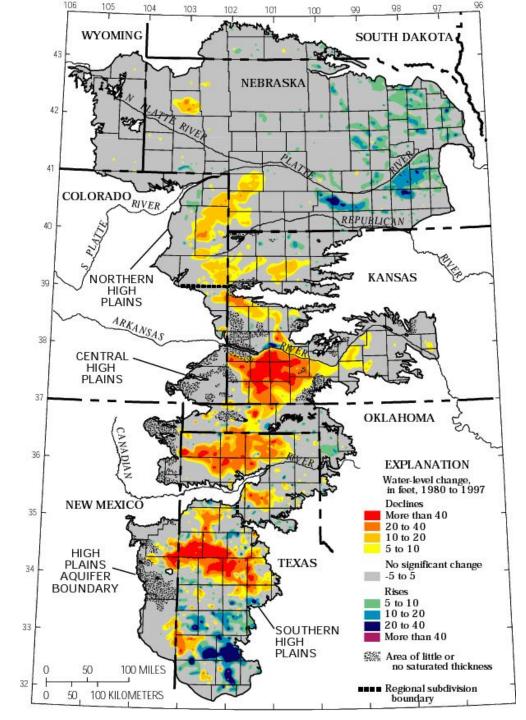
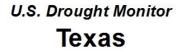


Mission Statement

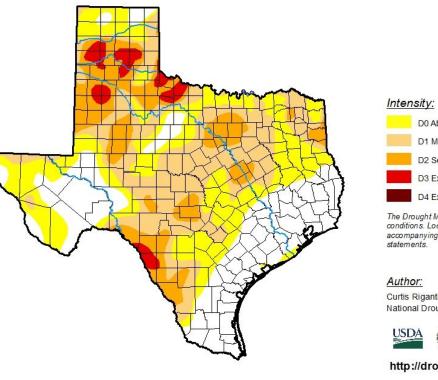
Maintaining our way of life through conservation, protection, and preservation of our groundwater resources.







July 17, 2018 (Released Thursday, Jul. 19, 2018) Valid 8 a.m. EDT





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

Author:

Curtis Riganti National Drought Mitigation Center



Conservation Steps

- •Gradually reduced allowable production limits from 2 AF/Acre to 1.5 AF/Acre (25% reduction)
- Develop agriculture conservation education programs



•Continue to promote water conservation across all water user groups

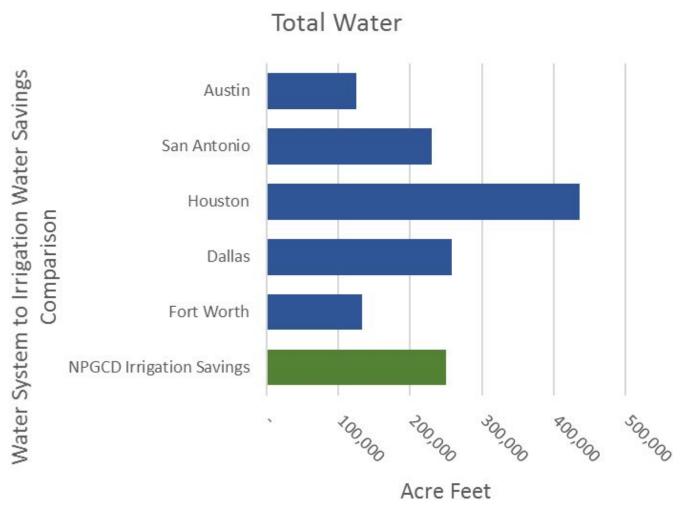
Conservation Education

- 200-12 Reduced Irrigation Corn Demonstration Project
 - The Texas High Plains Initiative For Strategic and Innovative Irrigation Management and Conservation
 - Efficient Profitable Irrigation In Corn
 - 3-4-5 GPM Gallon Production Maximization Corn Demonstration Project
 - Master Irrigator

- 4th Grade Water Conservation Festivals
- 5th Grade Water Wise
- In-class programs
- Summer Showers
- Civic group and Industry presentations.
- North Plains Water Conservation Center.

Irrigation Math

Irrigated Acres 1,000,000 Reduced Irrigation X 3" or 0.25' **Irrigation Savings** = 250,000 AF



Agriculture Conservation Demonstrations





TEXAS A&M GRILIFE RESEARCH



USDA ONRCS

United States Department of Agriculture Natural Resources Conservation Service



Master Irrigator Project Advisory Committee

- •Agronomics
- Irrigation Scheduling
- •Systems
- •Special Topics (Cool Stuff)



Agronomics

- Soil Health, Infiltration and Residue Management
- Economics of Soil Health and Residue Management
- Fertility Management
- Using Cover Crops to Improve Soil Health
- Producer Panel: Soil Health and Residue Management





Soil Health

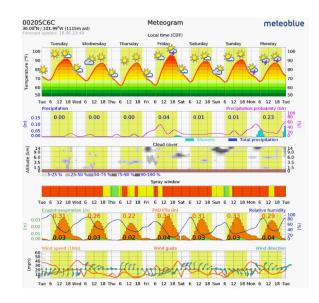


Importance of cover crops and crop rotation

Irrigation Scheduling

- Economics of Irrigation Scheduling
- Pre-Water and Planting Dates
- Monitoring Moisture Stress and Plant Growth in Irrigated Crops
- Irrigation Scheduling with Aquaplanner
- •Measuring Crop Water Use
- •Data Interpretation & Strategic Irrigation Management
- Producer Panel: Irrigation Scheduling

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Stations	NPGCD WCC WS	







Soil moisture probes

&

Crop stress monitors



Weather stations and custom irrigation scheduling





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Systems

- Economics of Irrigation Systems
- •Systems and Application Efficiency
- •Genset: A potential alternative for converting natural gas to electric powered irrigation
- •Pivot Shutoff, Track Management, Variable Rate Irrigation and Remote Monitoring
- •Producer Panel: Center Pivot Irrigation





Subsurface drip irrigation

Center pivot systems and monitoring







LEPA – low energy precision application



PMDI – precision mobile drip irrigation

Systems & Special Topics

- •2018 Crop Profitability Analyzer
- •Variable Frequency Drives Benefits in Agriculture
- •Remote Sensing uses in Agriculture
- •How I use Satellite Imagery & Drones in Our Operation
- •Subsurface Drip Irrigation Systems
- •Producer Panel: SDI and Remote Sensing



Drones and remote sensing





2018 Constant 20

Dustin Borden	Janet Reinart
Clinton Born	Colt Reynolds
Paul Breland	Eddy Riggins
Ann Burton	Justin Ritchey
Dorland Burton	Dustin Sargent
Glen Green	Everett Timmons
Dennis Holubec	Nathan Webb
Mark Howard	Willie Wieck
Ridgel Koehn	Linda Williams
Kenton Laubhan	Misty Williams





Nongovernmental Contributors and Sponsors (That Public-Private-Partnership Thing)









- Growers
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- Better Harvest, Inc
- PivoTrac Monitoring, LLC
- Lindsay Corporation
- Yaskawa America Inc.
- Crop Quest
- Professional Water Management Associates

Discussion Kirk Welch Assistant General Manager kwelch@northplainsgcd.org 806-935-6401