



## Ogallala Aquifer Program

Research Consortium for the  
Southern Ogallala Aquifer Area

Participants:  
Kansas State University  
Texas A&M AgriLife  
Texas Tech University  
West Texas A&M University  
USDA-ARS, Bushland  
USDA-ARS, Lubbock

# 2018 Workshop Ogallala Aquifer Program March 27 – 29, 2018 Lubbock, Texas

**Tuesday, March 27, 2018**

1:00-1:15p.m.	<b>Introductions and Workshop Orientation</b> David Brauer, Manager, OAP, ARS
1:15-1:30p.m.	<b>Plant Gas Exchanges in the Open and Closed System Chambers</b> Jeff Baker, ARS
1:30-1:45p.m.	<b>Whole Plant Stomatal Responses and Scaling from the Leaf to the Plant</b> Dennis Gitz, ARS
1:45-2:00p.m.	<b>Experimental Verification of a New Stem Flow Sensor to Measure Cotton Transpiration</b> Robert Lascano, ARS
2:00-2:15p.m.	<b>The Evolution of Evapotranspiration Measurement – An Overview of the Bushland Large Weighing Lysimeters</b> Gary Marek, ARS
2:15-2:30p.m.	<b>Informal Break/Discussion</b>
2:30-2:45p.m.	<b>Measurement and Modeling of Evaporation and Transpiration</b> Paul Colaizzi, ARS

2:45-3:00p.m.	<b>Alternative Methods for Evapotranspiration Estimation</b> Jed Moorhead, ARS
3:00-3:15p.m.	<b>Break/Refreshments/Informal Discussion</b>
3:15-3:30p.m.	<b>Evaluation and Refinement of Irrigation Algorithms in the SWAT Hydrologic Model</b> Yong Chen, Texas A&M AgriLife
3:30-3:45p.m.	<b>Panel Discussion</b>
3:45-4:05p.m.	<b>Soil Health</b> Veronica Acosta-Martinez, ARS
4:05-4:20p.m.	<b>Update on Cover Crops for the Texas High Plains</b> Calvin Trostle, Texas A&M AgriLife
4:20-4:30p.m.	<b>Afternoon Wrap-up</b>
5:30-6:30p.m.	<b>Supper in Sunset Ballroom B, Informal Meetings</b>

### **Wednesday, March 28, 2018**

7:00-8:00a.m.	<b>Breakfast in Sunset Ballroom B, Informal Meetings</b>
8:00-8:30a.m.	<b>Registration</b>
8:30-8:45a.m.	<b>Introductions and Session Orientation</b> David Brauer, OAP, ARS
8:45-9:05a.m.	<b>Water Management in Kansas for Agriculture</b> Chris Beightel, Kansas Department of Agriculture
9:05-9:25a.m.	<b>The Agricultural Economics of Water in Kansas</b> Kellen Liebsch, Kansas Department of Agriculture
9:25-9:45a.m.	<b>Competitiveness of Texas Agriculture and Water</b> Darren Hudson, Texas Tech University
9:45-10:05a.m.	<b>Texas Agriculture and Water</b> Tom Sell, Combest, Sell and Associates
10:05-10:30a.m.	<b>Break/Refreshments/Informal Discussion</b>
10:30-10:50a.m.	<b>Texas Water Development Board: Supporting Groundwater Conservation</b> Larry French, TWDB
10:50-11:10a.m.	<b>Texas Law and Groundwater</b> Tiffany Dowell-Lashmet, Texas A&M AgriLife
11:10-11:45a.m.	<b>Discussion</b>
12:00-1:00p.m.	<b>Lunch in Sunset Ballroom B, Informal Meetings</b>
1:00-1:15p.m.	<b>Seasonal Water-Level Fluctuations of the Ogallala Aquifer</b> John Stout, ARS
1:15-1:30p.m.	<b>Depth to Static Water Level: What does it mean?</b> David Brauer, OAP, ARS
1:30-1:45p.m.	<b>Technology Transfers Events Celebrating 40 Years of Center Pivot Research</b> Freddie Lamm, Kansas State and Dana Porter, Texas A&M AgriLife
1:45-3:00p.m.	<b>Exercises regarding the Dobzhansky Template</b>
3:00-5:00p.m.	<b>Poster Session in Horizon Ballroom (upstairs)</b>
5:30-6:30p.m.	<b>Supper, Informal Meetings</b>
6:30-8:30p.m.	<b>OAP Leadership Team Meeting, Moody Boardroom</b>

## Thursday, March 29, 2018

7:00-8:00a.m.	<b>Breakfast, Informal Meetings</b>
8:30-8:40a.m.	<b>Breakout Sessions Charge 1: Biggest changes since 2003; 2: Biggest changes in the next 10 years (2030)</b> D. Brauer, Manager, OAP, ARS
8:45-10:00a.m.	<b>Breakout Sessions</b>
10:00-10:15a.m.	<b>Break/Refreshments/Informal Discussions</b>
10:15-10:40a.m.	<b>Report Outs and Charge 3: What are research questions/ Dobzhansky Template to meet emerging changes?</b>
10:40-11:30a.m.	<b>Breakout Sessions</b>
11:30-12:00a.m.	<b>Report Outs Lunch</b>
12:00-12:45p.m.	<b>Lunch in Sunset Ballroom B, Informal Meetings</b>
12:45-1:00p.m.	<b>Wrap Up for 2018 OAP Conference</b> D. Brauer, Manager, OAP, ARS

## Ogallala Aquifer Program

Recipient of  
The 65<sup>th</sup> Annual Secretary's Honor Awards  
for Sustaining Rural Prosperity Across the  
Drought Prone Southern High Plains  
(USDA 2013)

### Institutional Contacts for Ogallala Aquifer Program

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For additional information about the Ogallala Aquifer Program, visit us at  
<https://ogallala.tamu.edu/>