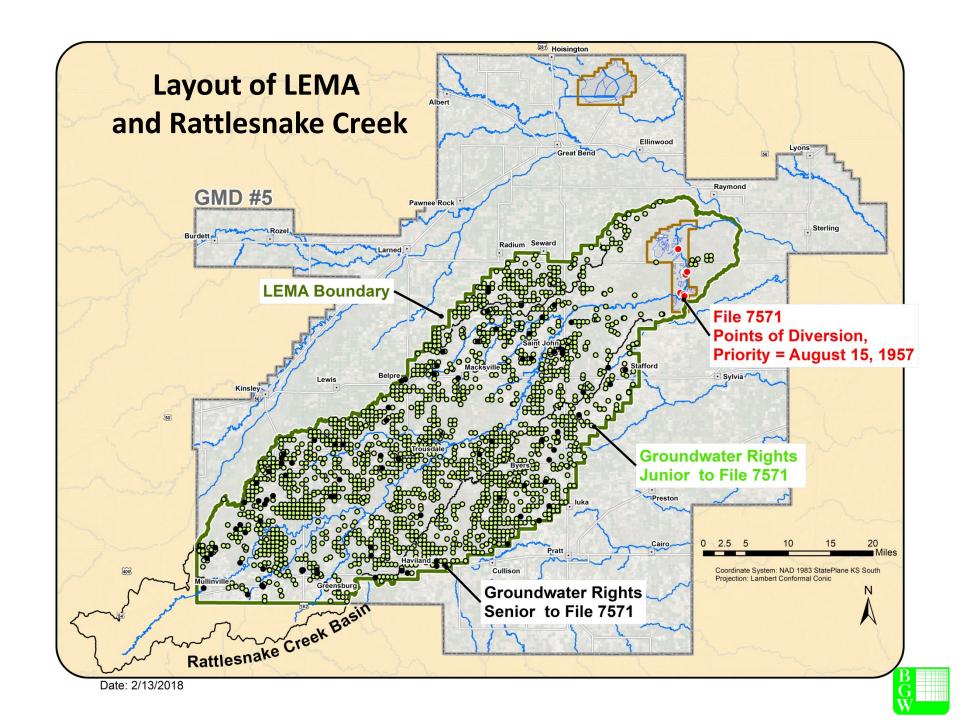
# Hydrology of Rattlesnake Creek Local Enhanced Management Ar











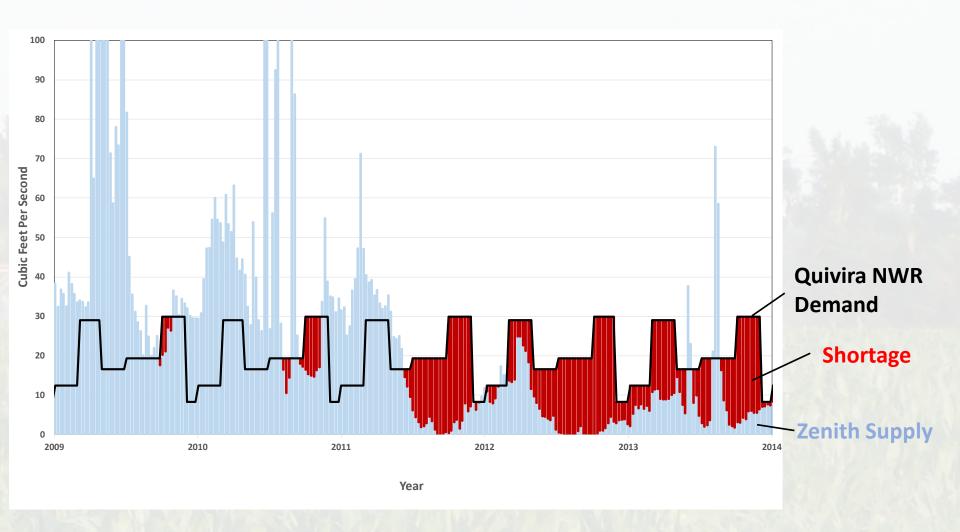
### **LEMA Goals and Objectives**

- Address conditions regarding streamflow depletion within an area of enhanced management.
- Provide streamflow augmentation to the Rattlesnake Creek stream channel.

The particular objectives are to reduce water-use in the LEMA area to a degree that will temper the growth of future streamflow depletion, and to restore the useful supply to diversion points on the upper reaches of Rattlesnake Creek.

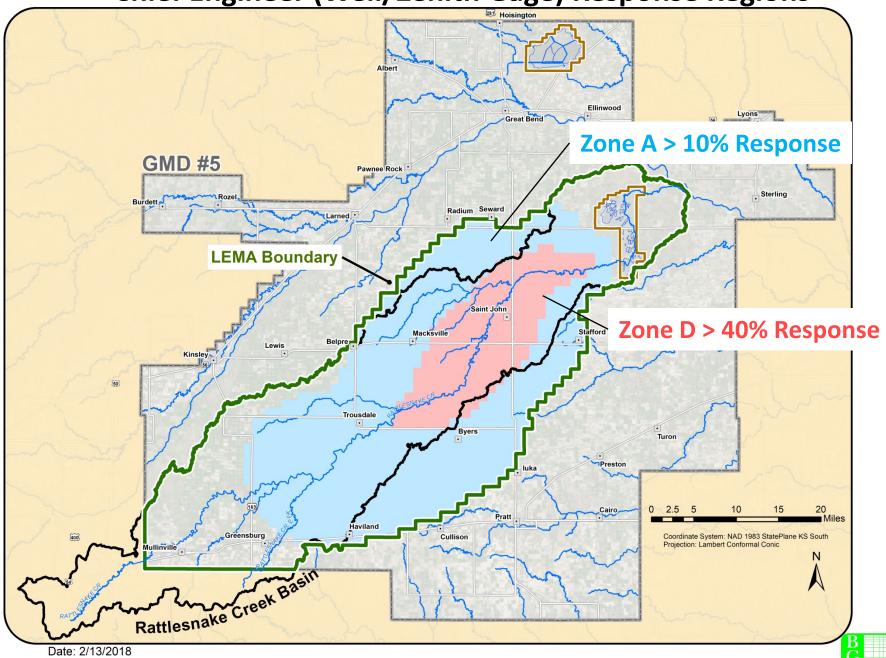


### **Quivira Demand vs. Zenith Water Supply**

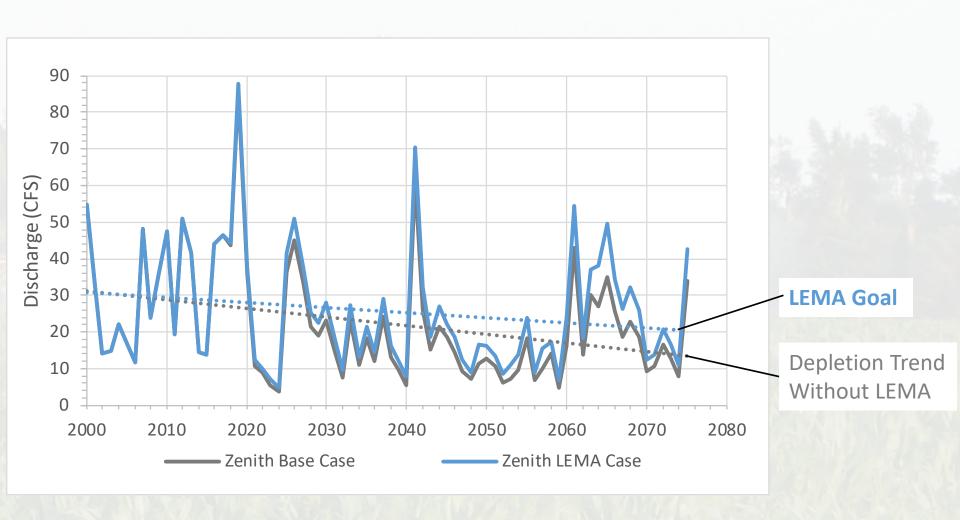




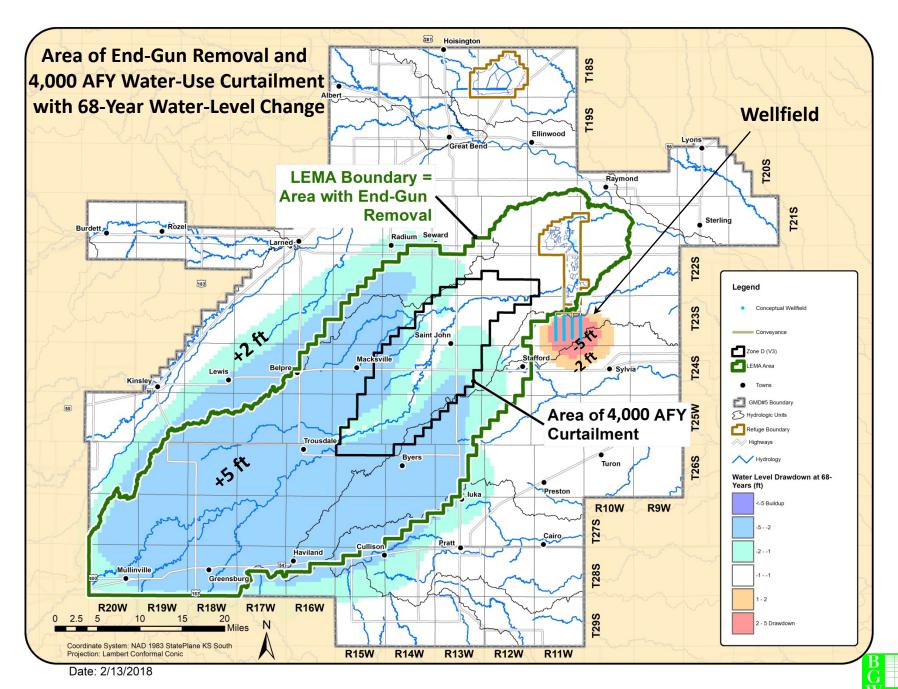
Chief Engineer (Well/Zenith Gage) Response Regions

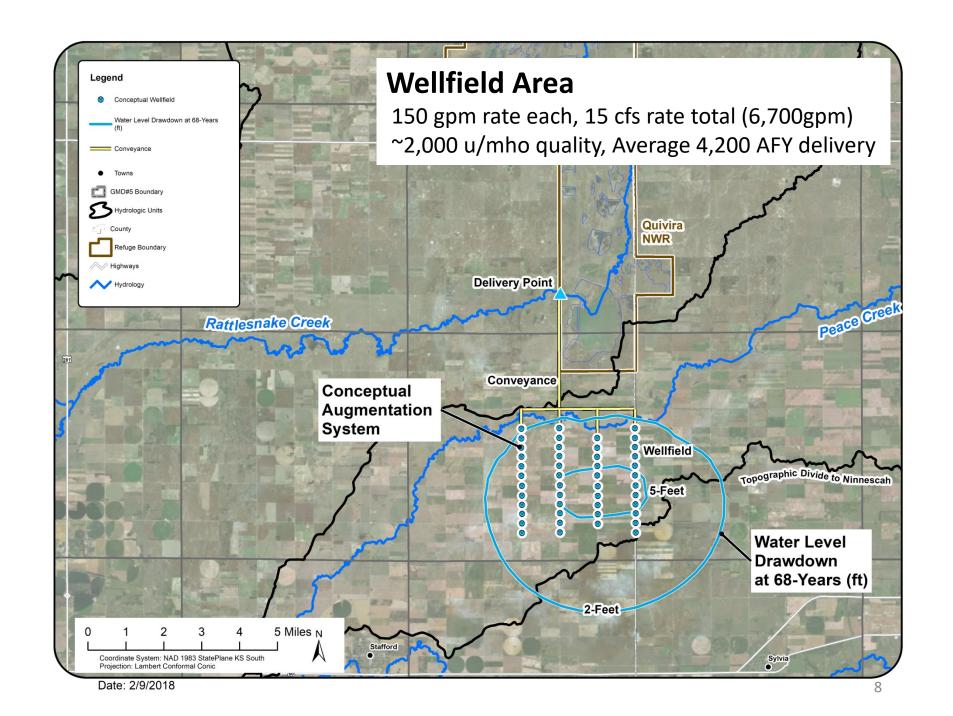


# Assessment of Streamflow with Reduction in Irrigation Pumping (Zenith Gage Flow - Adapted from Model Chief Engineer Model Analysis)









### **Capture of Augmentation Water**

4,200 AFY average augmentation water comes from the area of drawdown, two-thirds from capture of ET (2,750 AFY) and one-quarter from saline baseflow (1,060 AFY).



#### **Two LEMA Goals**

- 1. Supply for priority at Refuge,
- 2. Improvement in future aquifer and stream depletion.

Managed by two actions: augmentation and curtailment.



## **Questions on Hydrology of LEMA?**

