# BRAZOS RIVER ALLUVIUM DESIRED FUTURE CONDITIONS



Presented to GMA-12 by Brazos Valley Groundwater Conservation District

February 4, 2016

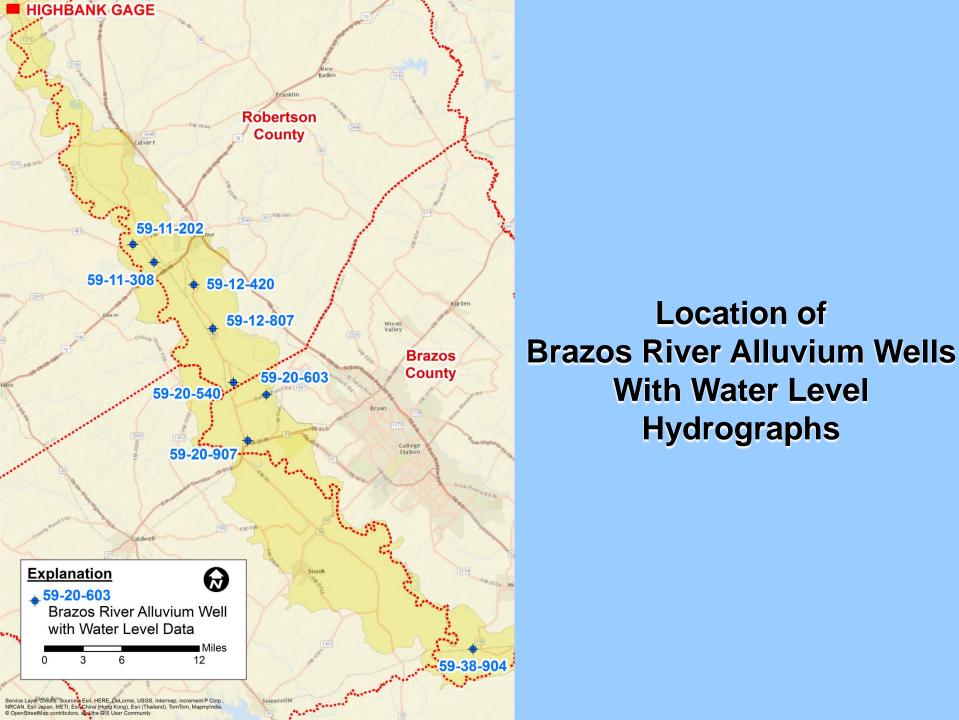
## **BRAZOS RIVER ALLUVIUM**

- •Principally used for irrigation and pumping has occurred for decades
- •Pumping in Brazos, Burleson and Robertson Counties
- •DFC for Brazos River Alluvium is being proposed
- Develop a reasonable approach for DFC

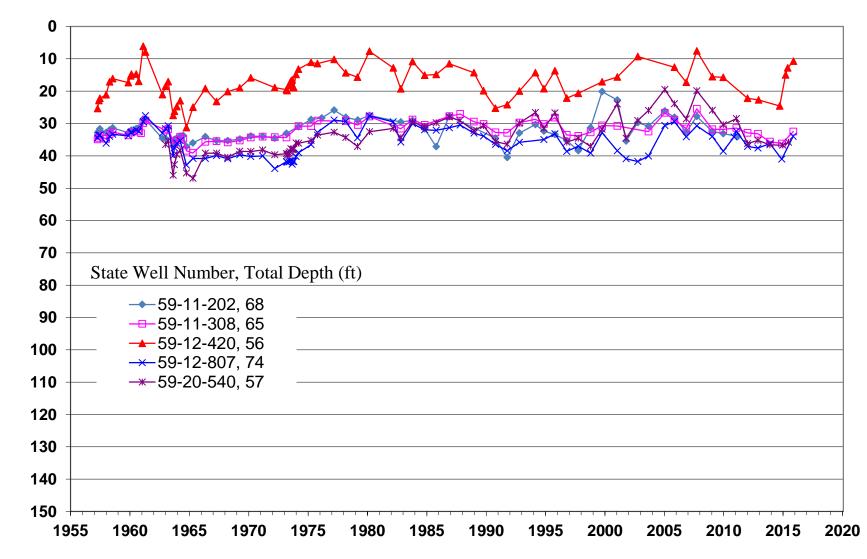
 Consider maintaining a percentage of saturation of Brazos River Alluvium



### Extent of Brazos River Alluvium

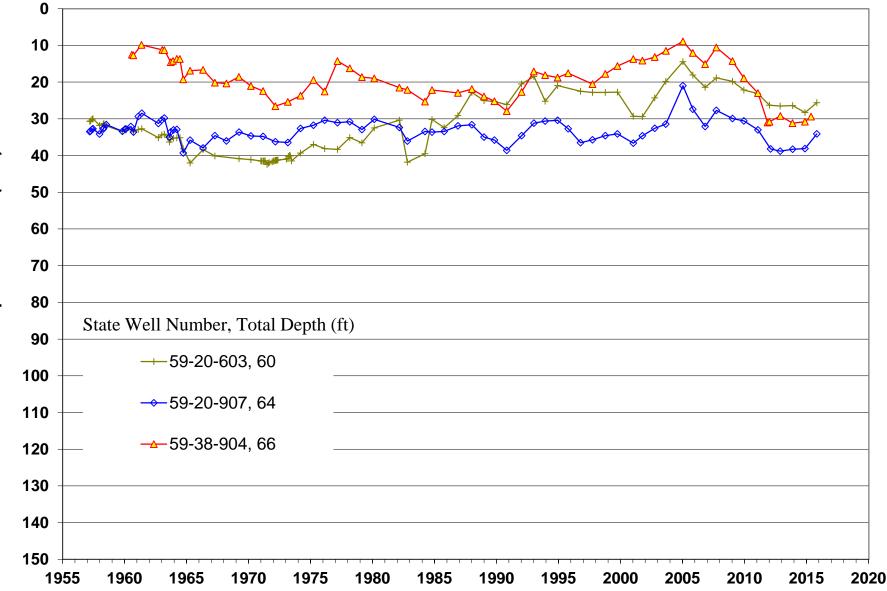


#### **Brazos River Alluvium Water Level Data - Robertson County**



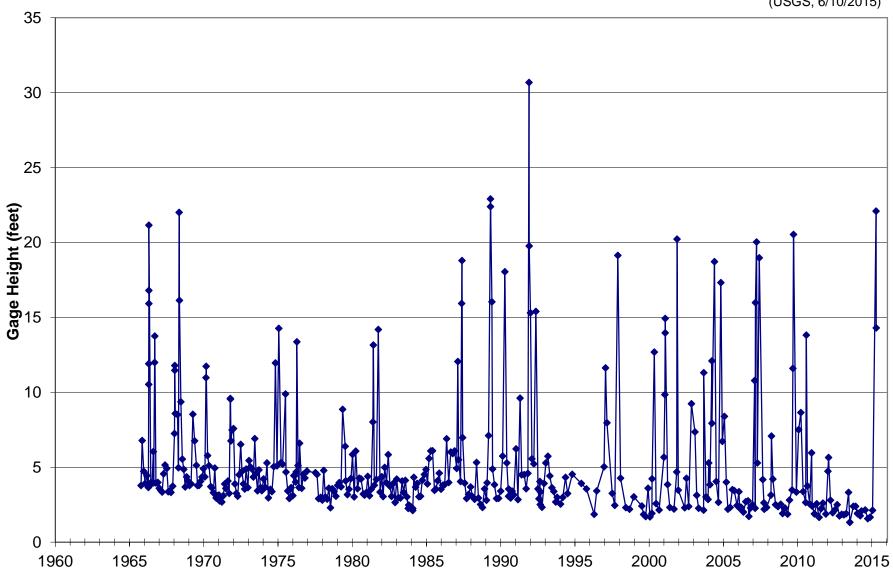
Depth to Water (feet)

#### **Brazos River Alluvium Water Level Data - Brazos County**



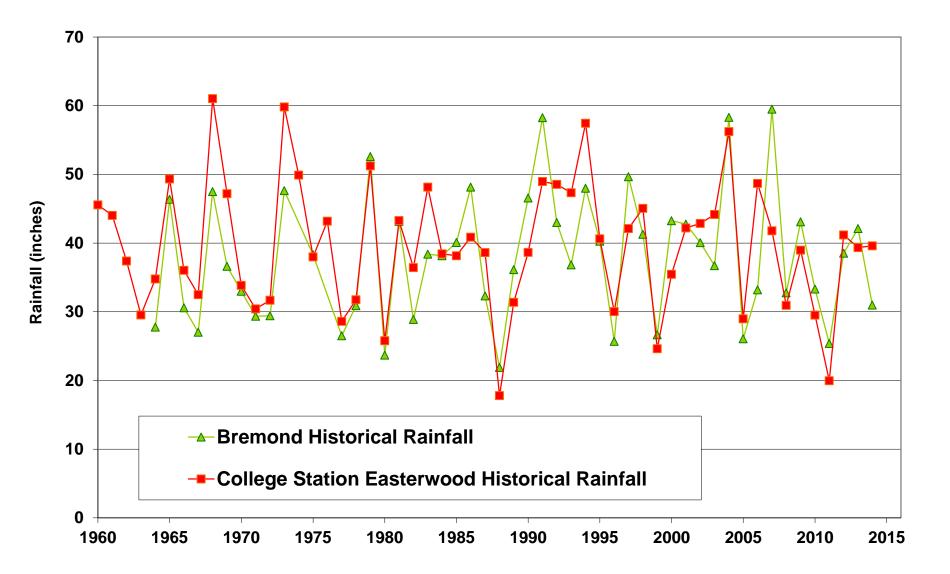
Depth to Water (feet)

#### USGS 08098290 Brazos River Near Highbank, TX



(USGS, 6/10/2015)

#### **Bremond and College Station Historical Rainfall**



### Potential DFC Percent of Aquifer Saturation

WD = Well Depth, ft DTW = Depth to Water, ft

Percent Saturation (PS)= <u>WD-DTW</u> WD

Static water-level data to estimate PS would be collected during the winter months following the irrigation season. To reach a DFC the average PS for all wells measured would have to be below the applicable PS for three consecutive years.

