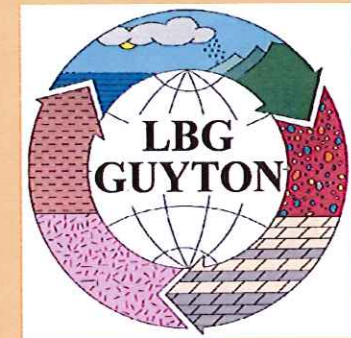


UPDATE REGARDING POTENTIAL DFC FOR BRAZOS RIVER ALLUVIUM

Presented during
Brazos Valley
Groundwater Conservation
District Board Meeting



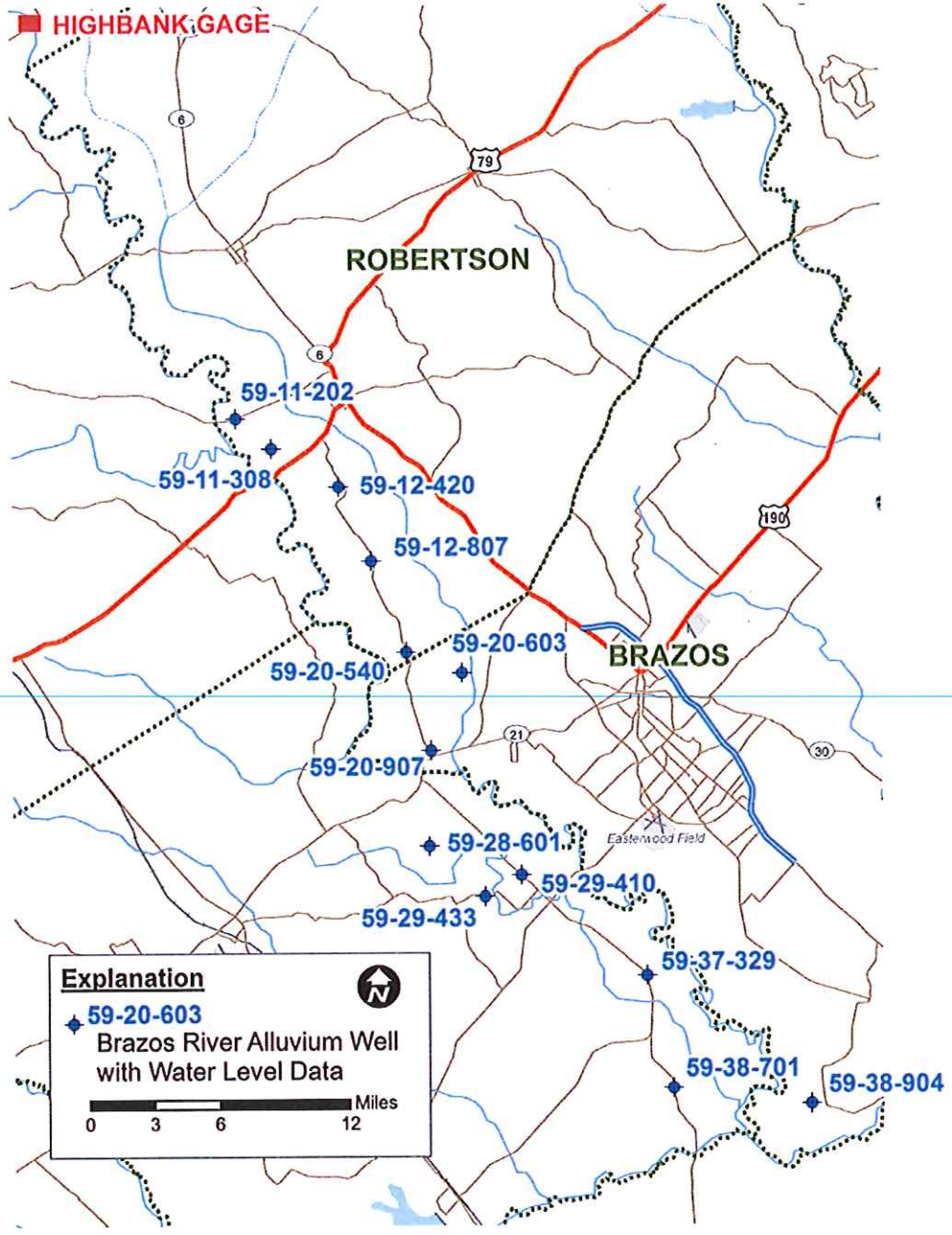
June 11, 2015

BRAZOS RIVER ALLUVIUM

- Irrigation, stock and limited domestic pumping has occurred for decades
- Pumping in Brazos, Burleson and Robertson Counties
- DFC for Brazos River Alluvium could be needed

BRAZOS RIVER ALLUVIUM (cont'd)


- Develop a reasonable approach for DFC
- Consider maintaining a percentage of saturation of Brazos River Alluvium
- Brazos River Alluvium somewhat self regulating



Explanation

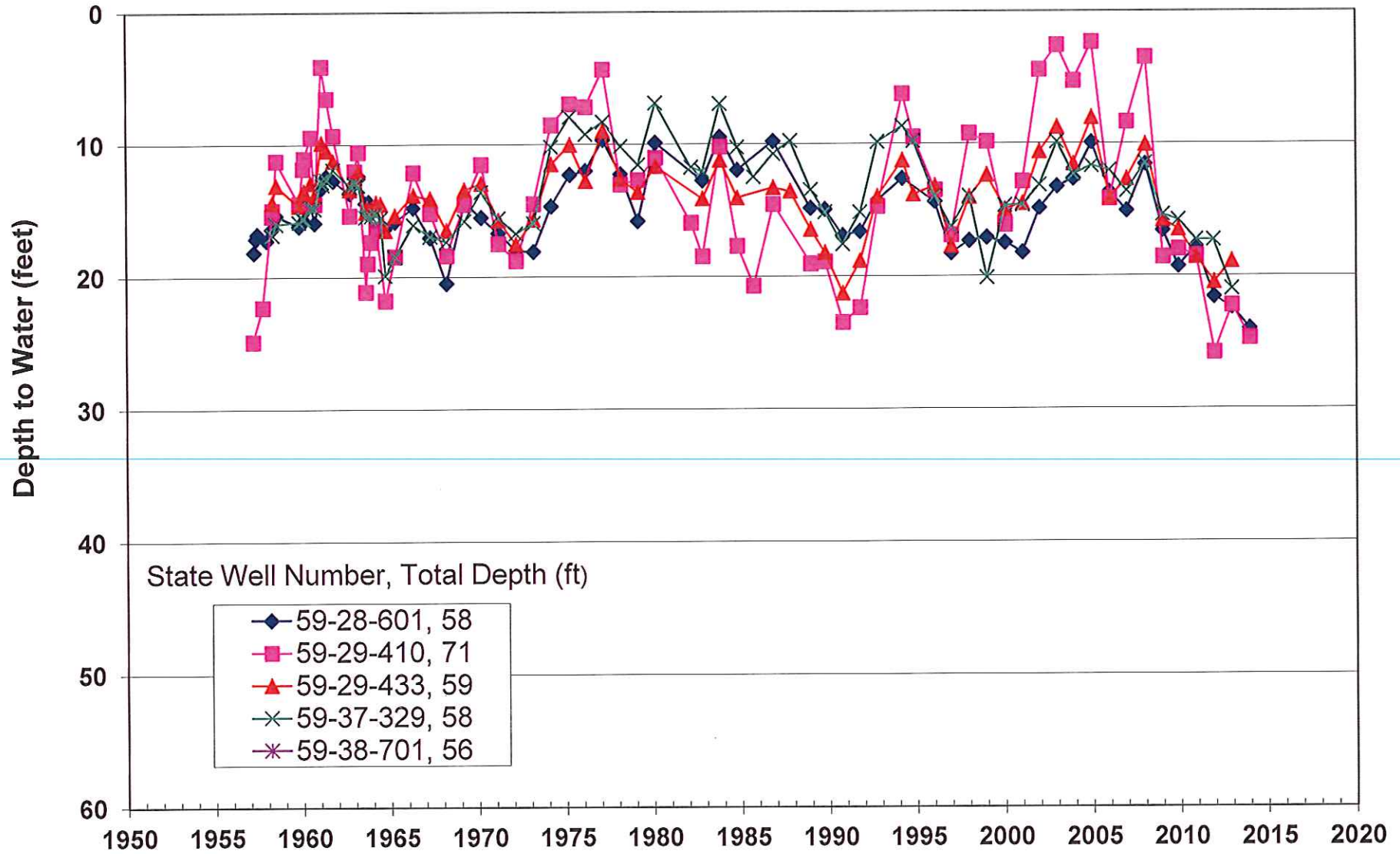
◆ 59-20-603
Brazos River Alluvium Well
with Water Level Data

Miles
0 3 6 12

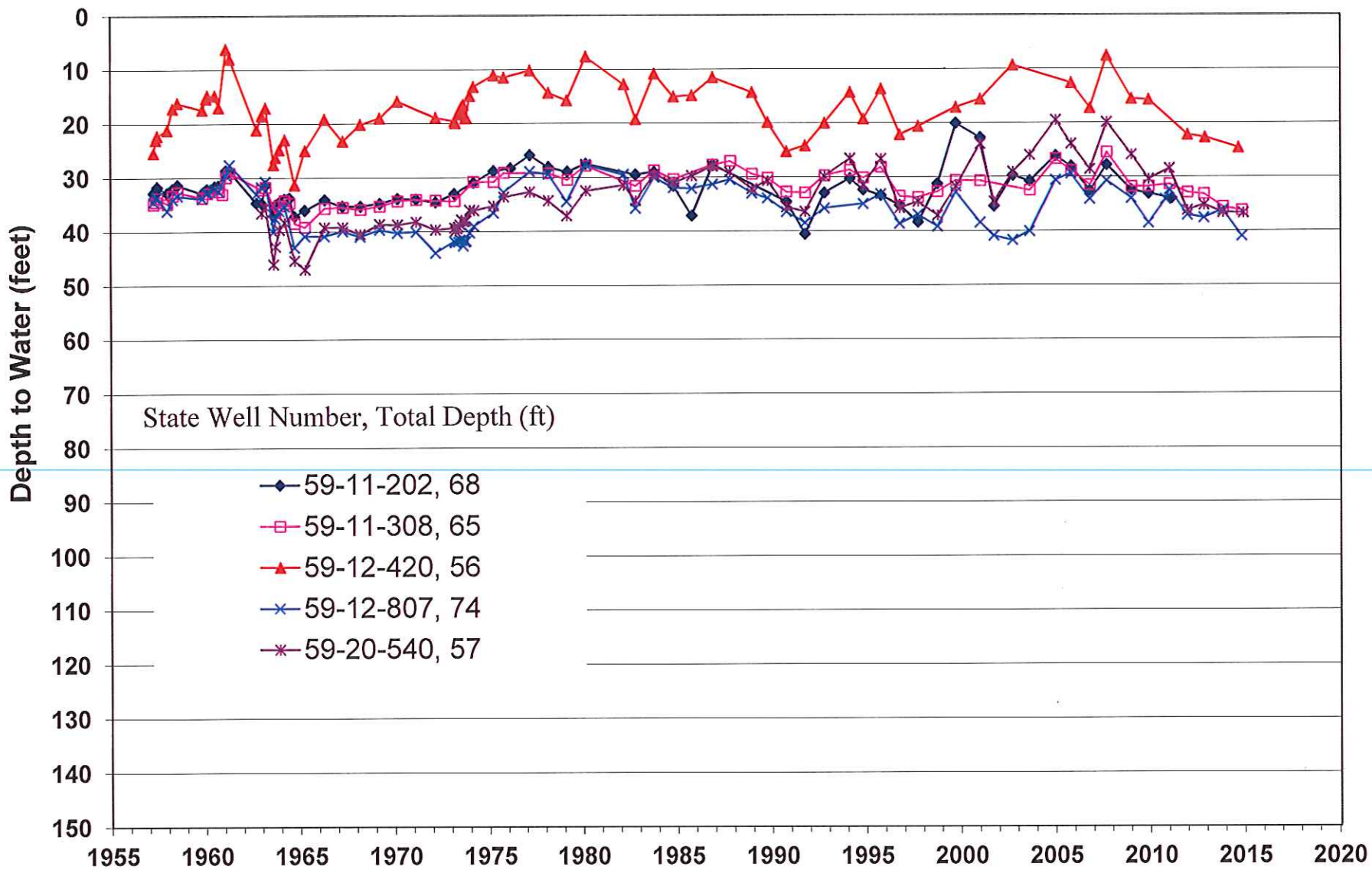


Brazos River Alluvium Well Hydrograph Locations

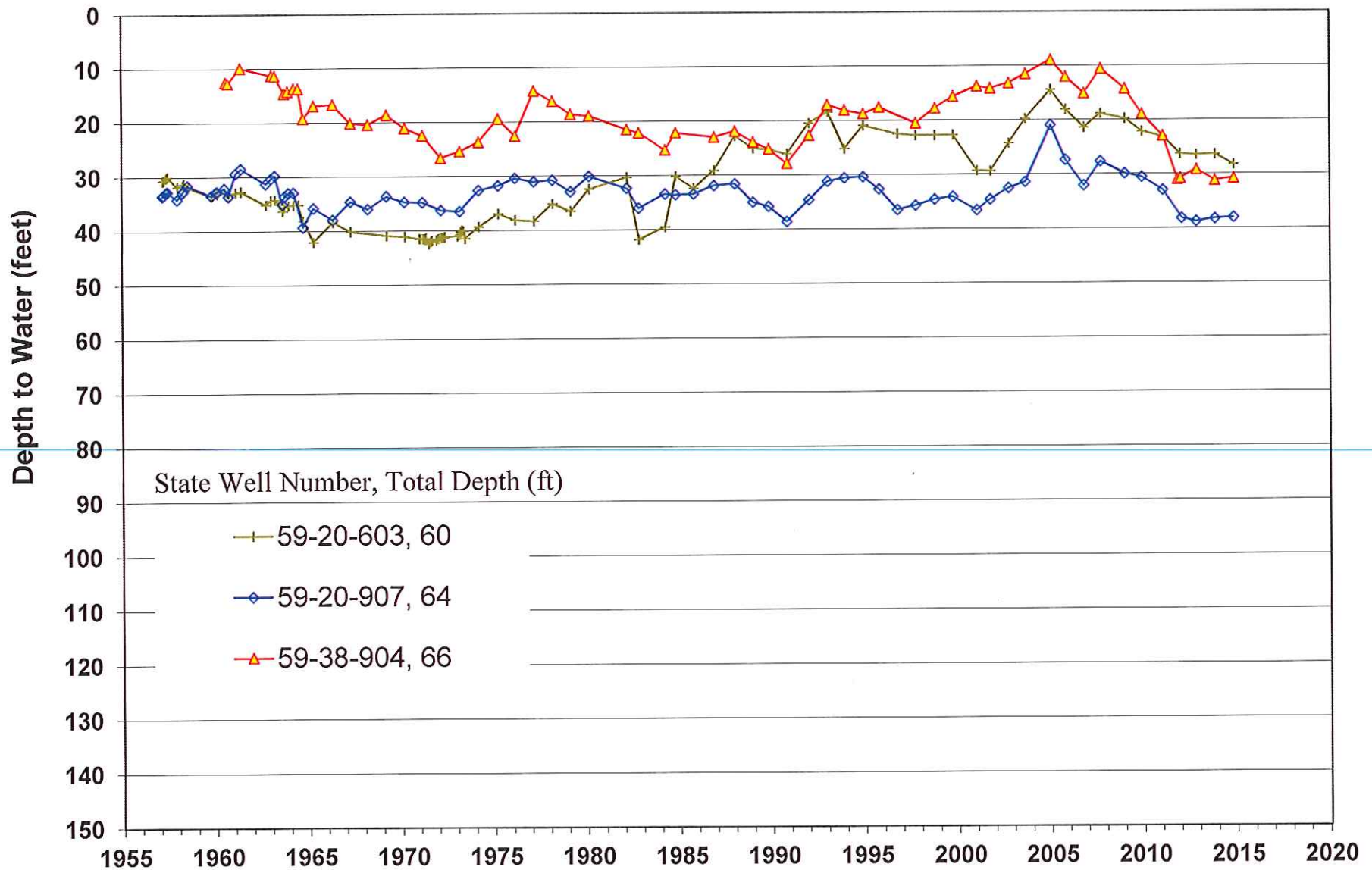
TWDB Brazos River Alluvium Water Level Data - Burleson County



TWDB Brazos River Alluvium Water Level Data - Robertson County

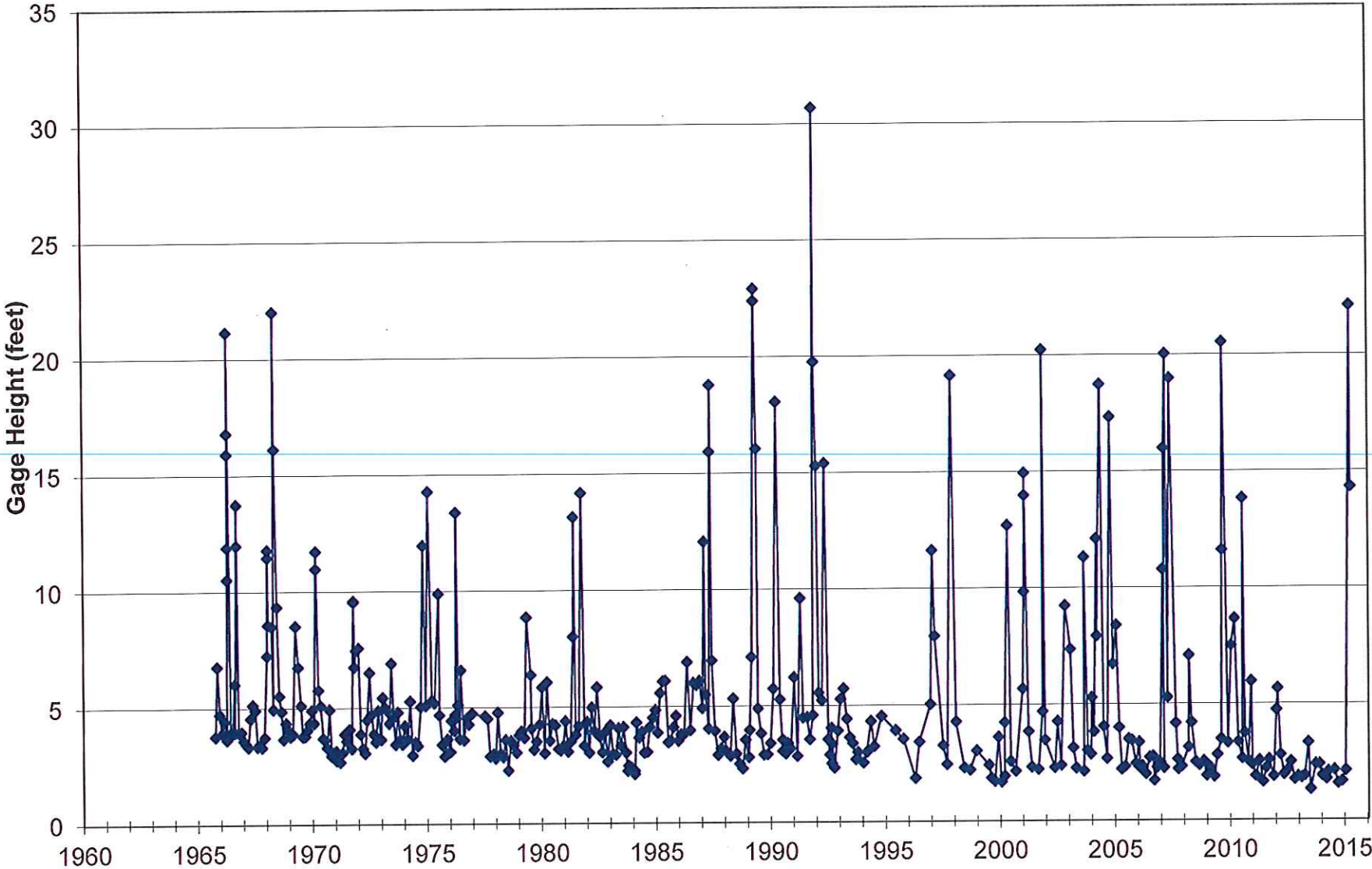


TWDB Brazos River Alluvium Water Level Data - Brazos County

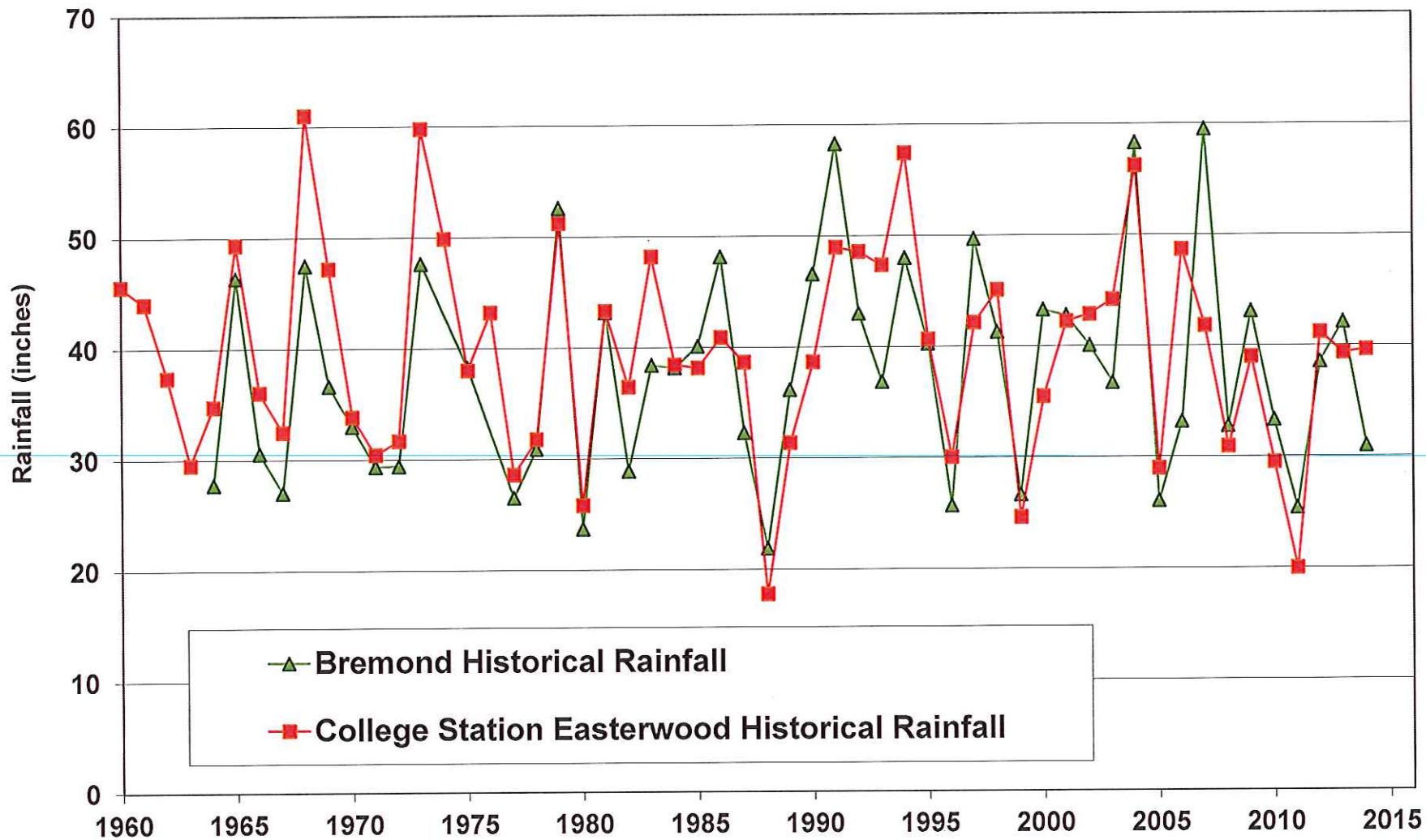


USGS 08098290 Brazos River Near Highbank, TX

(USGS, 6/10/2015)



Bremond and College Station Historical Rainfall



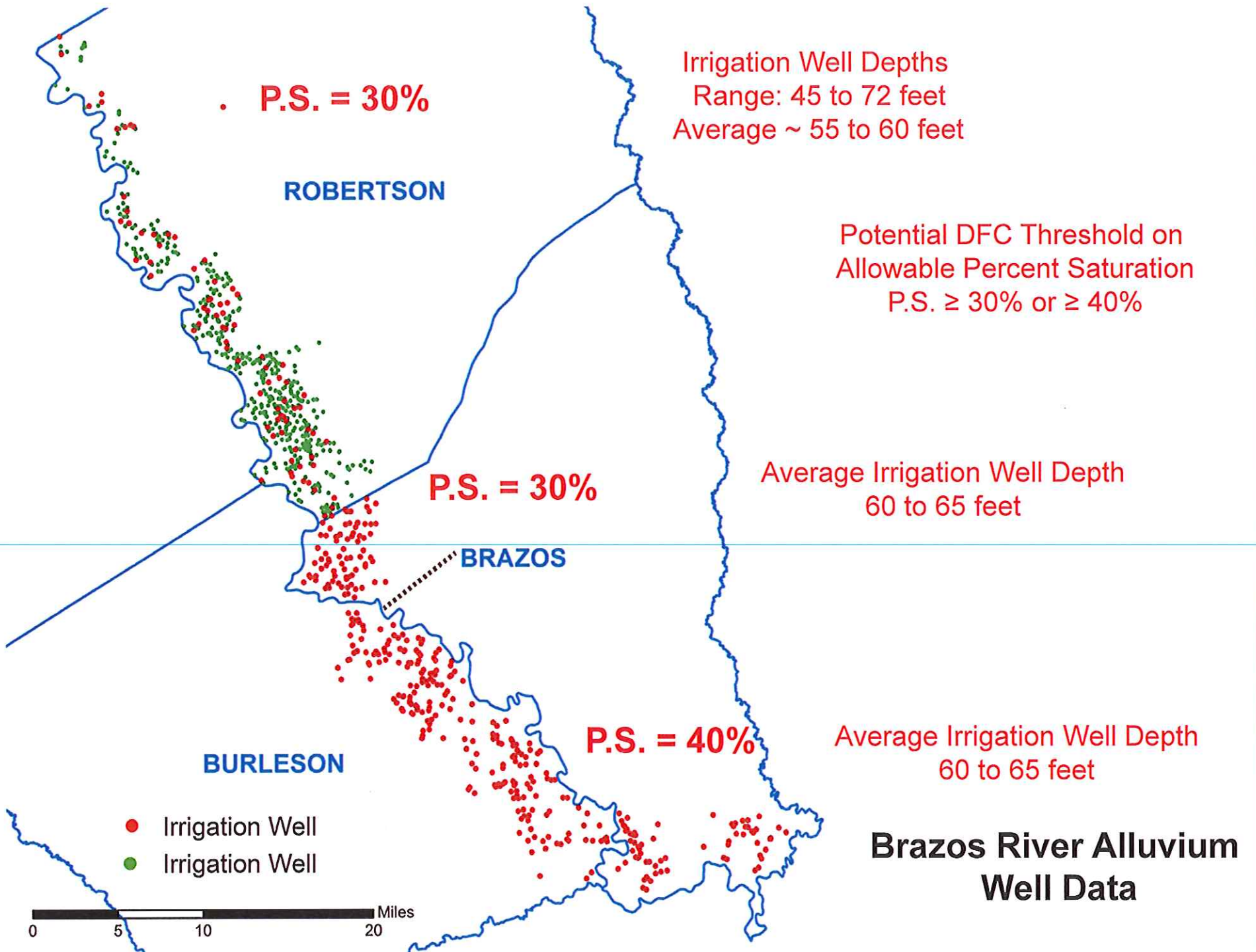
Potential DFC Percent of Aquifer Saturation

WD = Well Depth, ft

DTW = Depth to Water, ft

$$\text{Percent Saturation (PS)} = \frac{\text{WD} - \text{DTW}}{\text{WD}}$$

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.





Thank you!

Questions?