

# **Groundwater Management Area 16 Joint Planning Cycle: 2019-2022 Aquifer Uses & Conditions**

**Falfurrias, TX**

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# Joint Planning Requirements

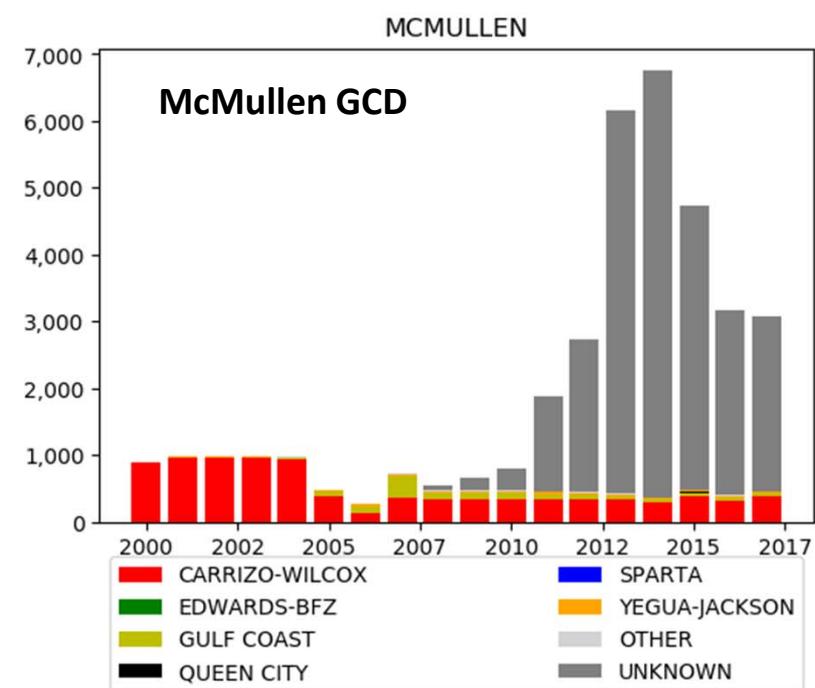
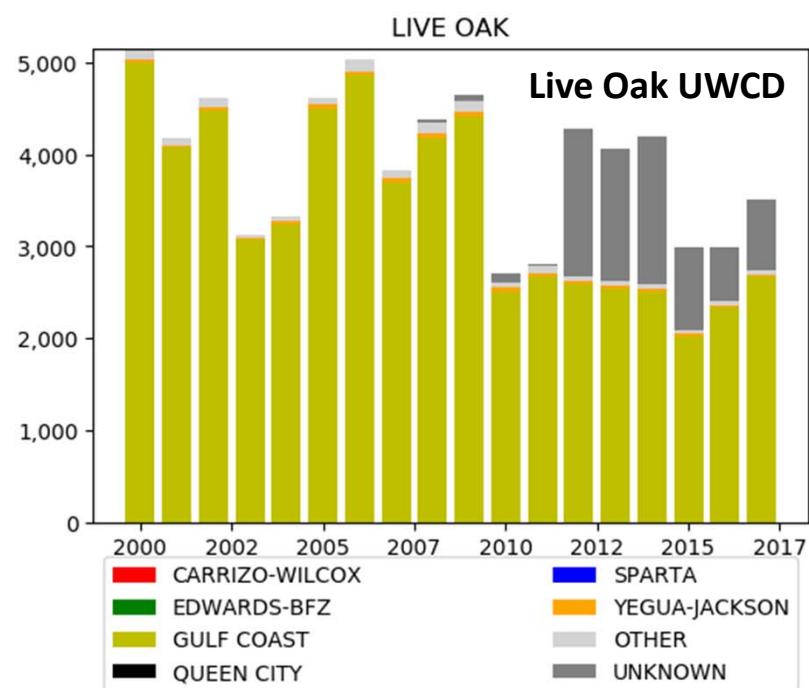
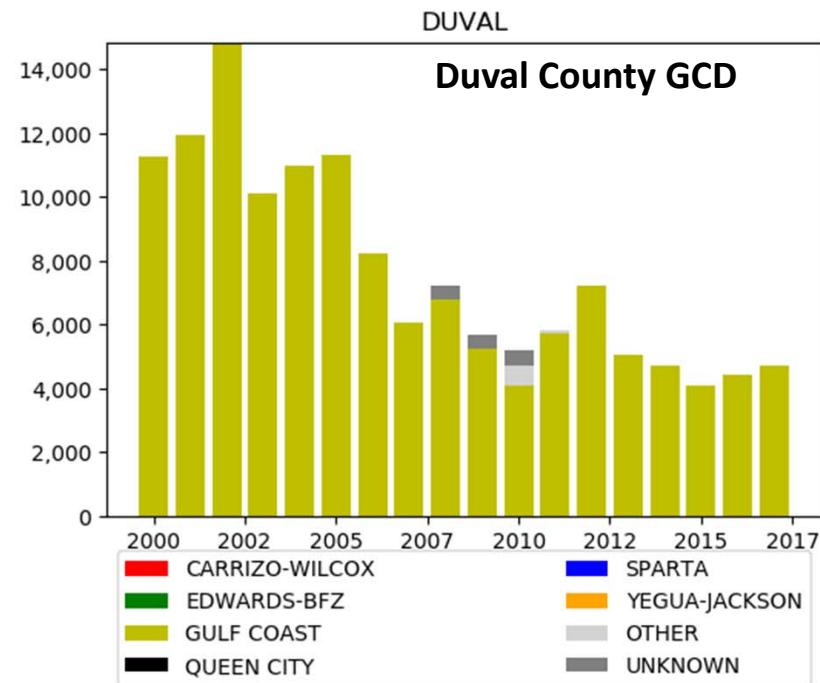
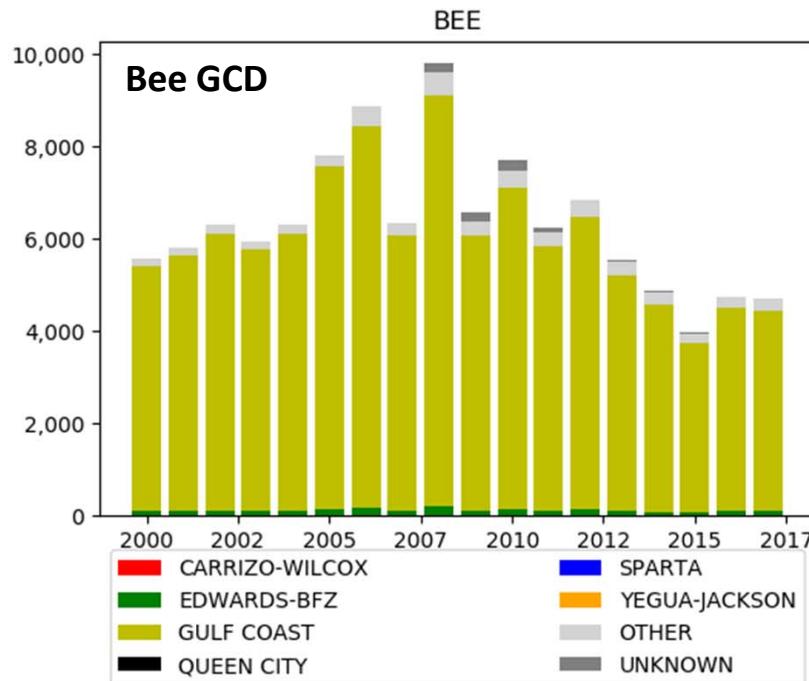
- Balancing Test
  - DFCs must provide “*a balance between the highest practicable level of groundwater production and the conservation, preservation, protection, recharging, and prevention of waste of groundwater and control of subsidence in the management area*”

# Joint Planning Requirements

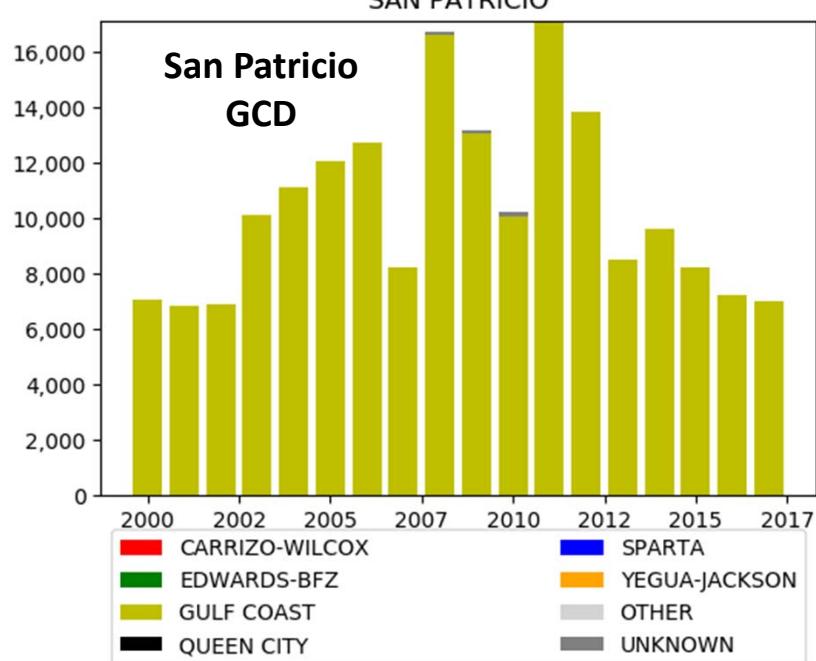
- Consideration of 9 “factors” (paraphrased)
  - ***Aquifer uses or conditions***
  - Water supply needs and management strategies
  - Hydrological conditions
  - Other environmental impacts
  - Impact on subsidence
  - Socioeconomic impacts
  - Impact on private property rights
  - Feasibility of achieving the DFC
  - Any other relevant information

# TWDB Historical Groundwater Pumping

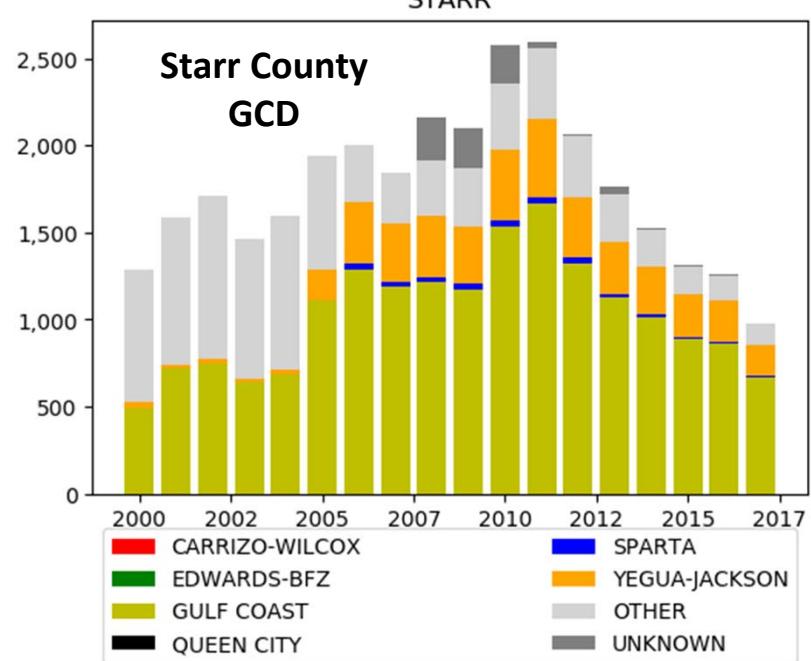
- TWDB Historical Groundwater Pumpage  
Estimates are specific to the location where groundwater is pumped from the aquifer
- Downloaded from  
[https://www3.twdb.texas.gov/apps/reports/WU/  
SumFinal\\_CountyPumpage](https://www3.twdb.texas.gov/apps/reports/WU/SumFinal_CountyPumpage)
- Pumpage estimates do *NOT* include Rural Domestic Pumping values
- Compiled on County-level *NOT* on GCD-level
- Uncertainty due to Survey response rate



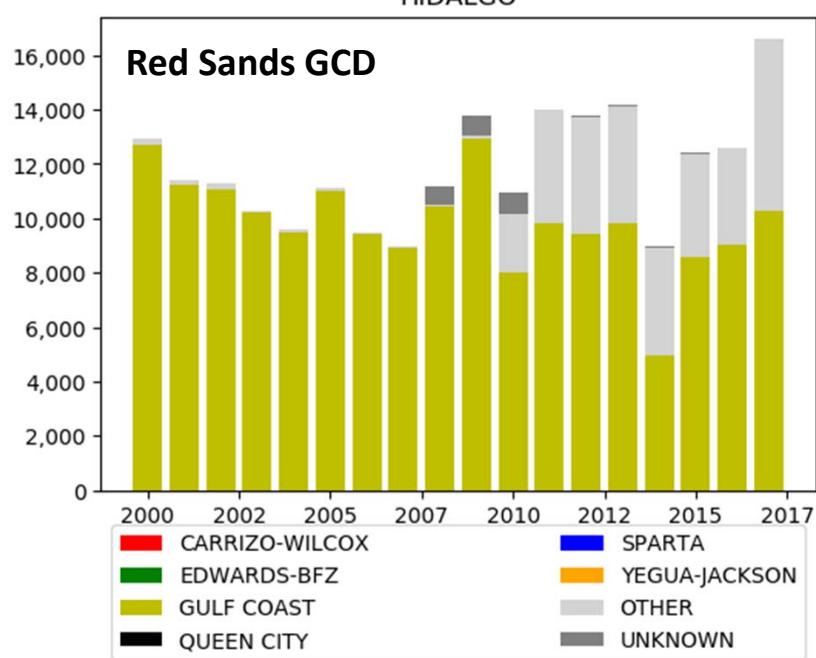
SAN PATRICIO



STARR

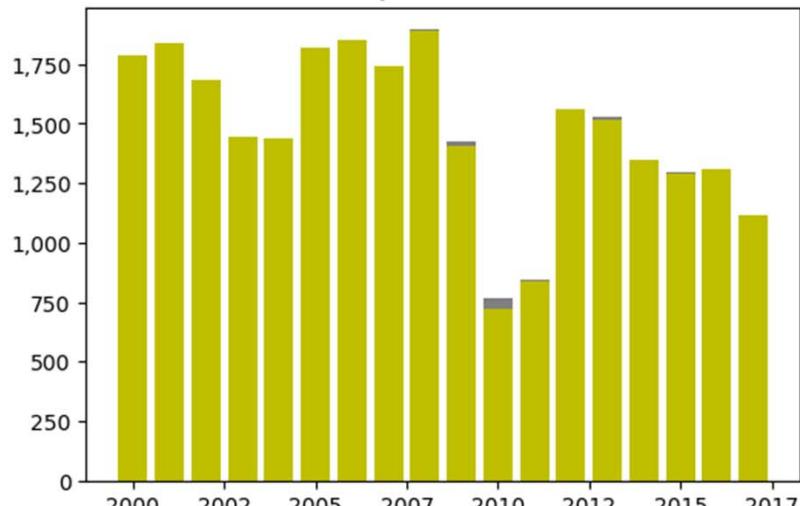


HIDALGO

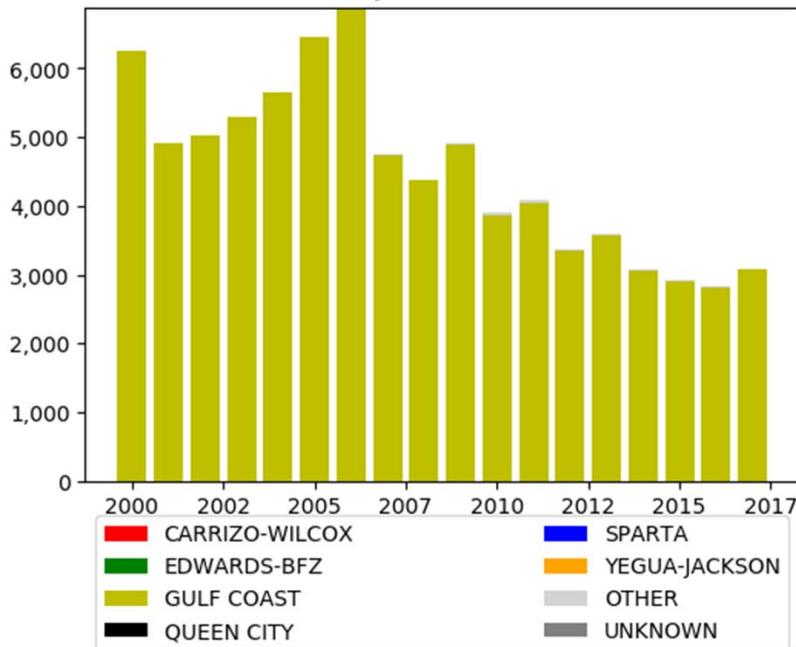


# Brush Country GCD

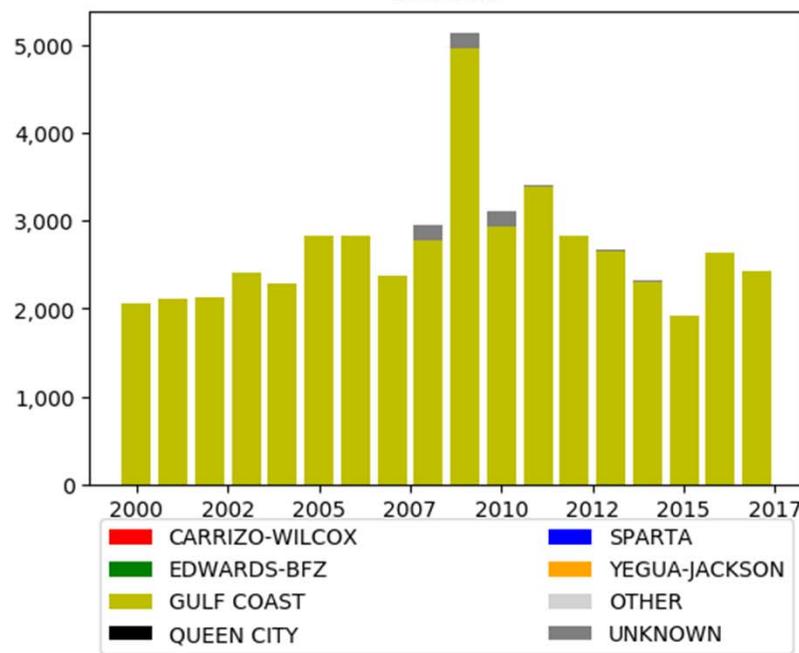
JIM HOGG



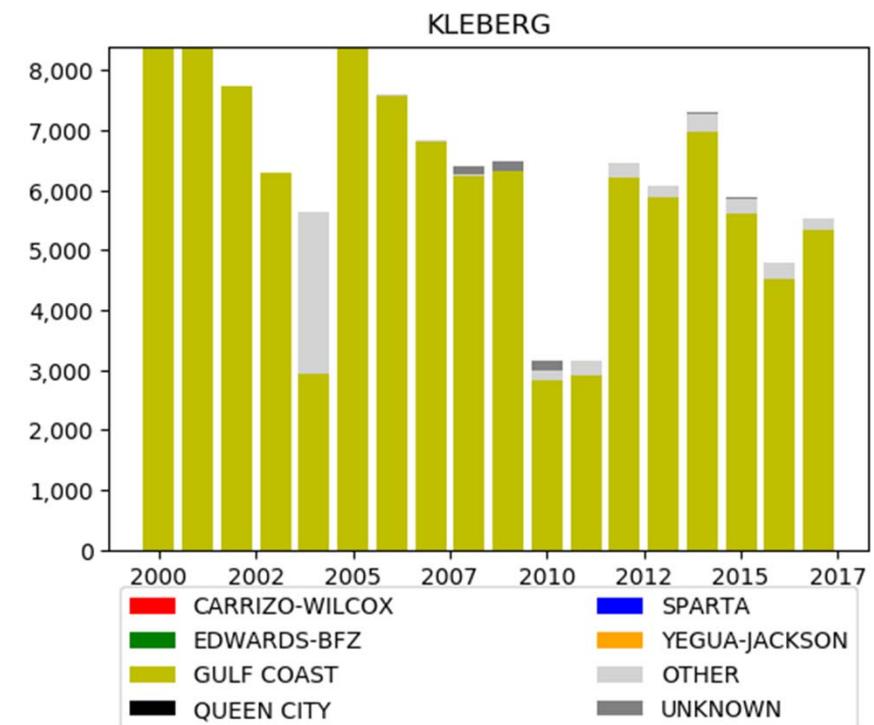
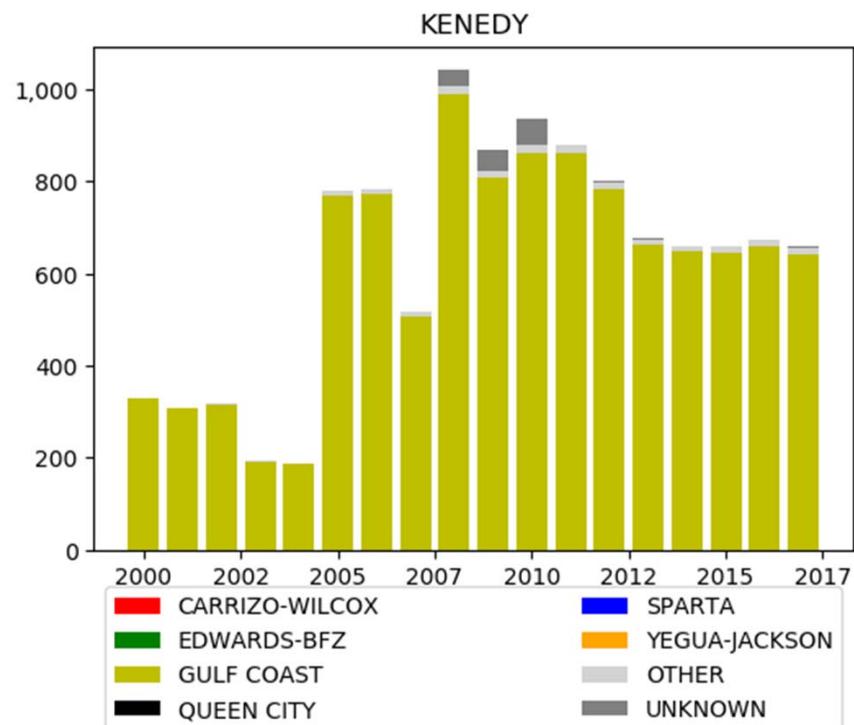
JIM WELLS



BROOKS



# Kenedy County GCD



# Non-Relevant Aquifers

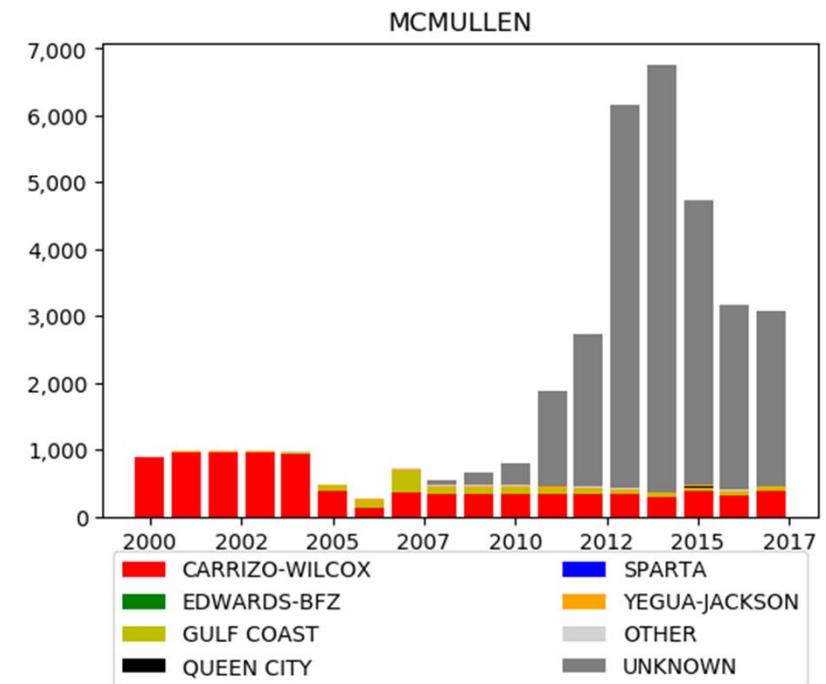
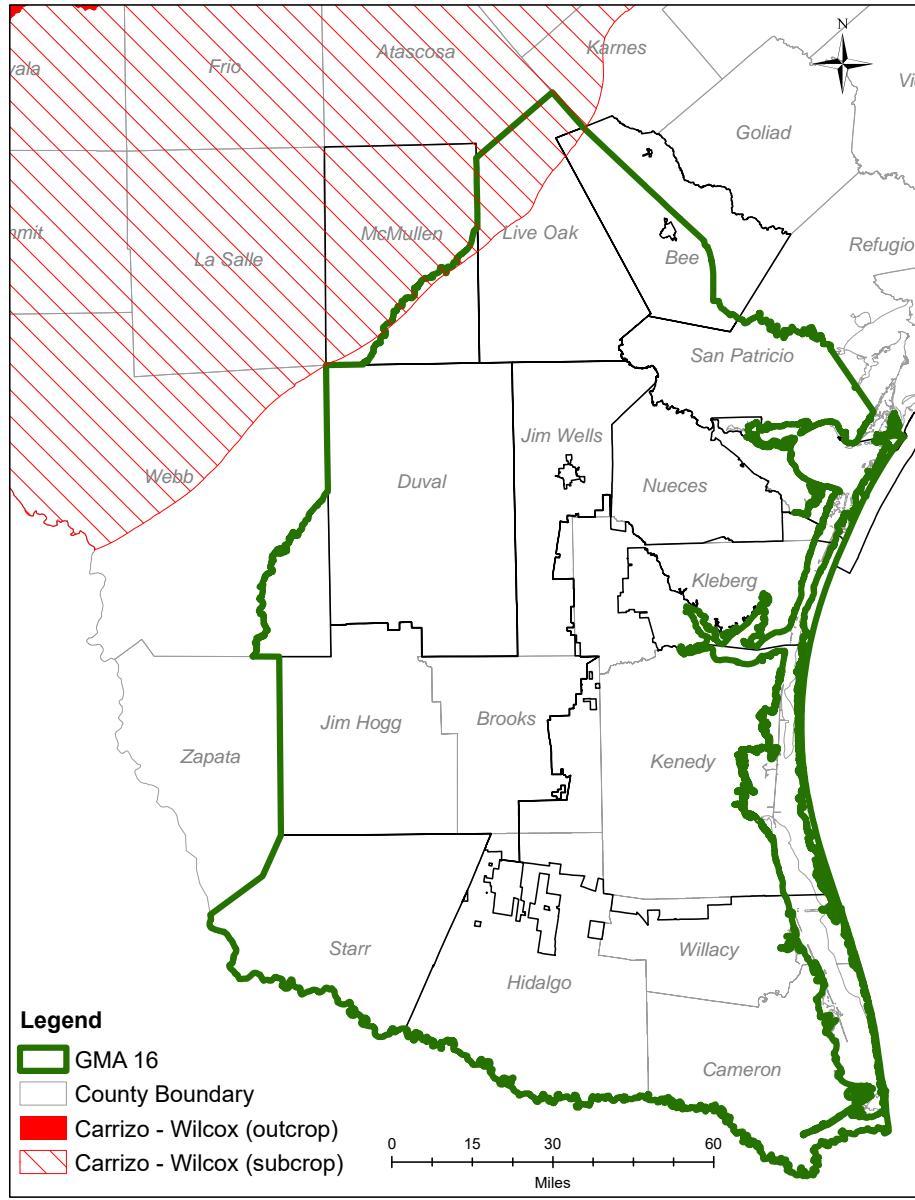
The Texas Water Development Board, in its July 2013 document, Explanatory Report for Submittal of Desired Future Conditions to the Texas Water Development Board, offers the following guidance regarding documentation for aquifers that are to be classified not relevant for purposes of joint planning:

*Districts in a groundwater management area may, as part of the process for adopting and submitting desired future conditions, propose classification of a portion or portions of a relevant aquifer as non-relevant (31 Texas Administrative Code 356.31 (b)). This proposed classification of an aquifer may be made if the districts determine that aquifer characteristics, groundwater demands, and current groundwater uses do not warrant adoption of a desired future condition.*

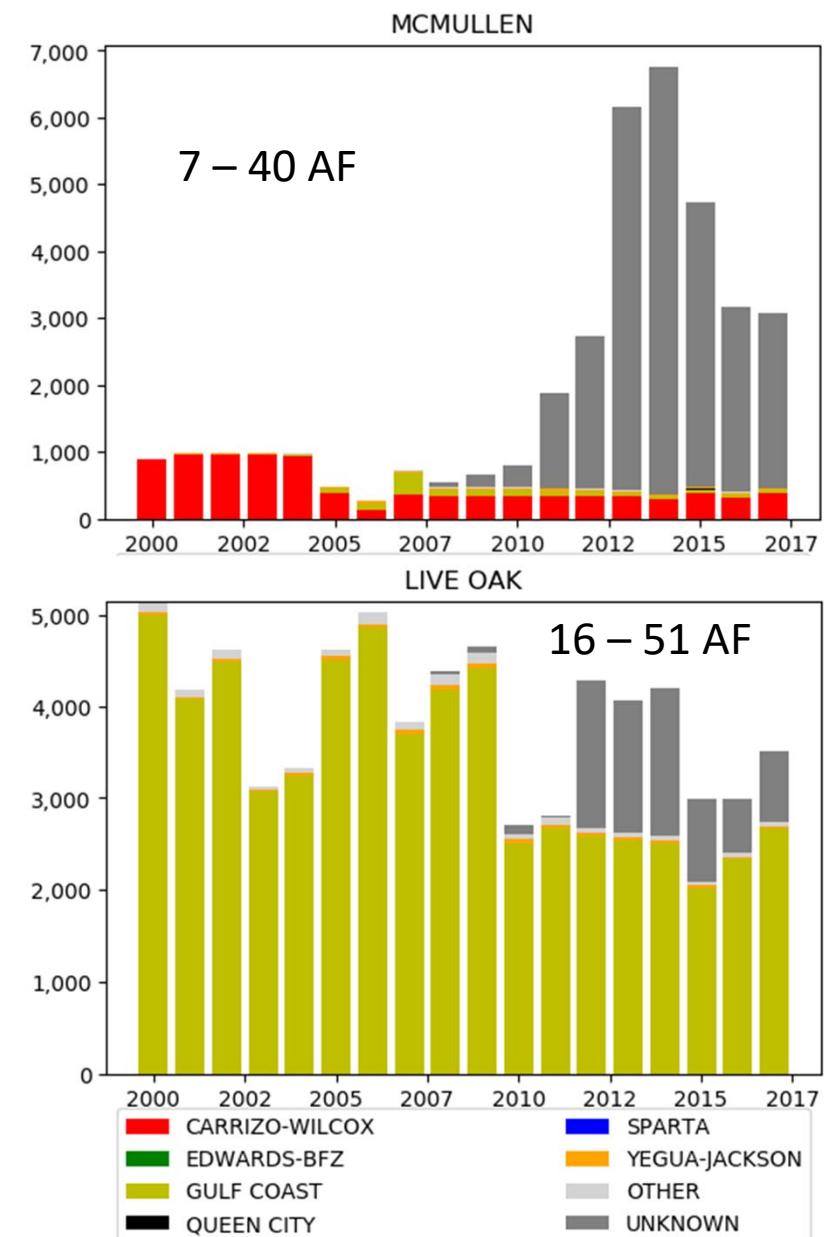
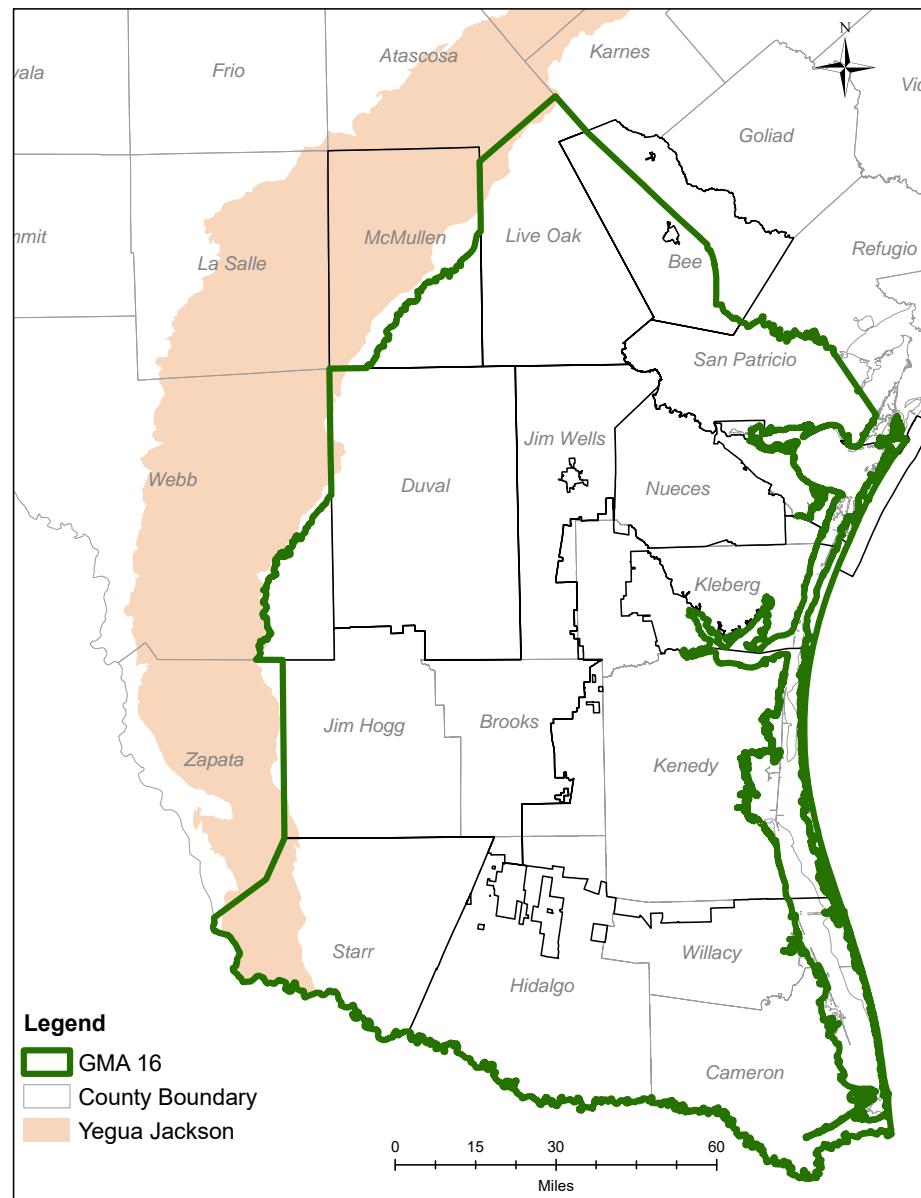
*The districts must submit to the TWDB the following documentation for the portion of the aquifer proposed to be classified as non-relevant:*

1. *A description, location, and/or map of the aquifer or portion of the aquifer;*
2. *A summary of aquifer characteristics, groundwater demands, and current groundwater uses, including the total estimated recoverable storage as provided by the TWDB, that support the conclusion that desired future conditions in adjacent or hydraulically connected relevant aquifer(s) will not be affected; and*
3. *An explanation of why the aquifer or portion of the aquifer is non-relevant for joint planning purposes.*

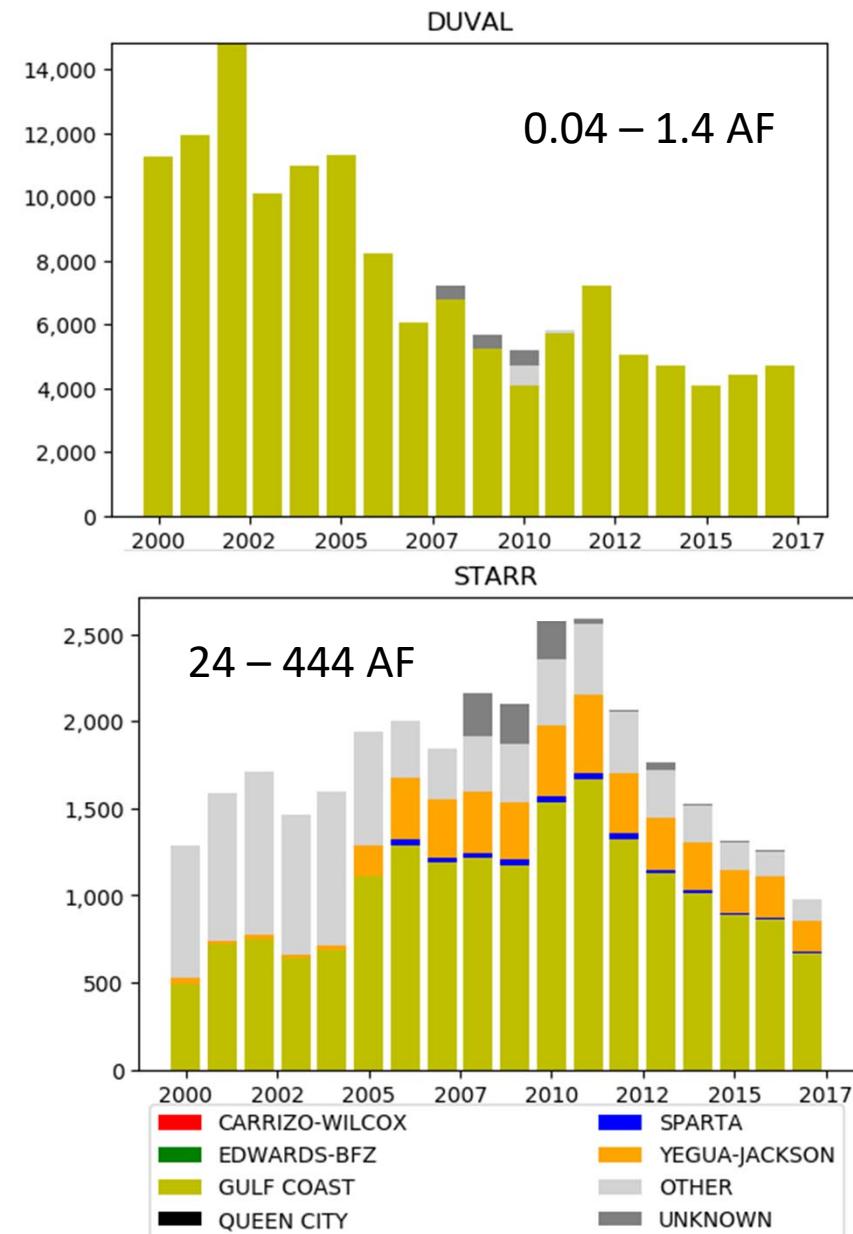
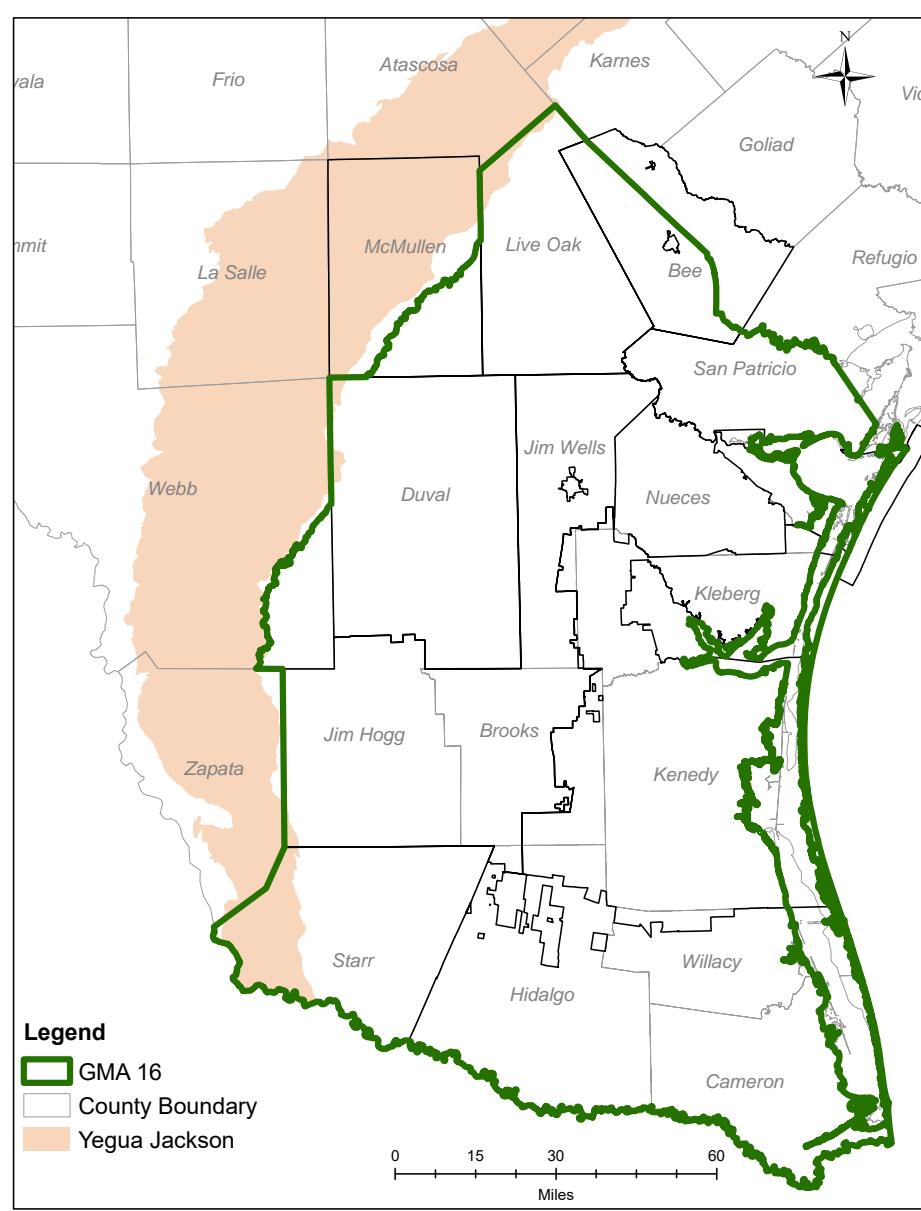
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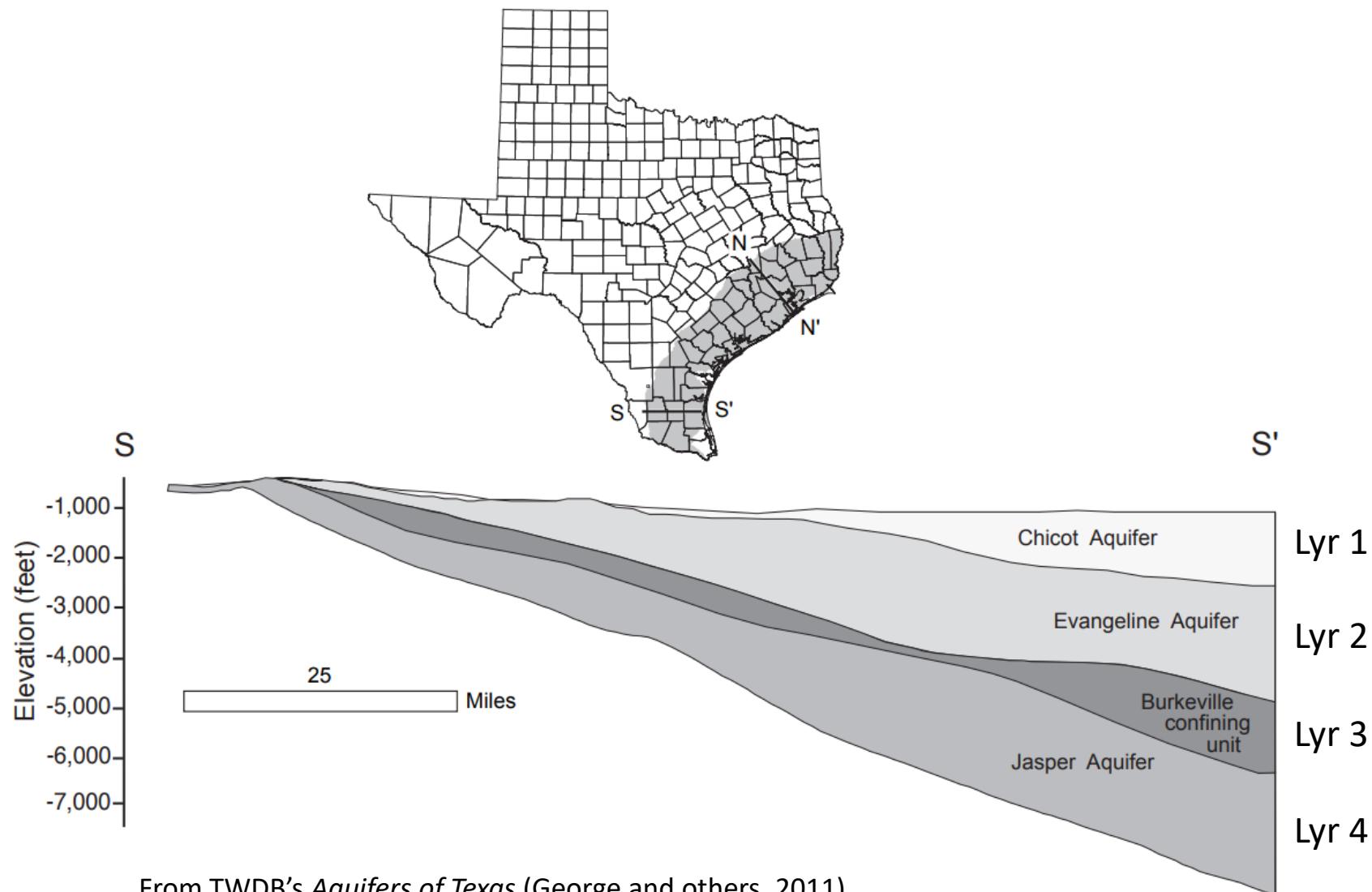
# Non-Relevant Aquifers



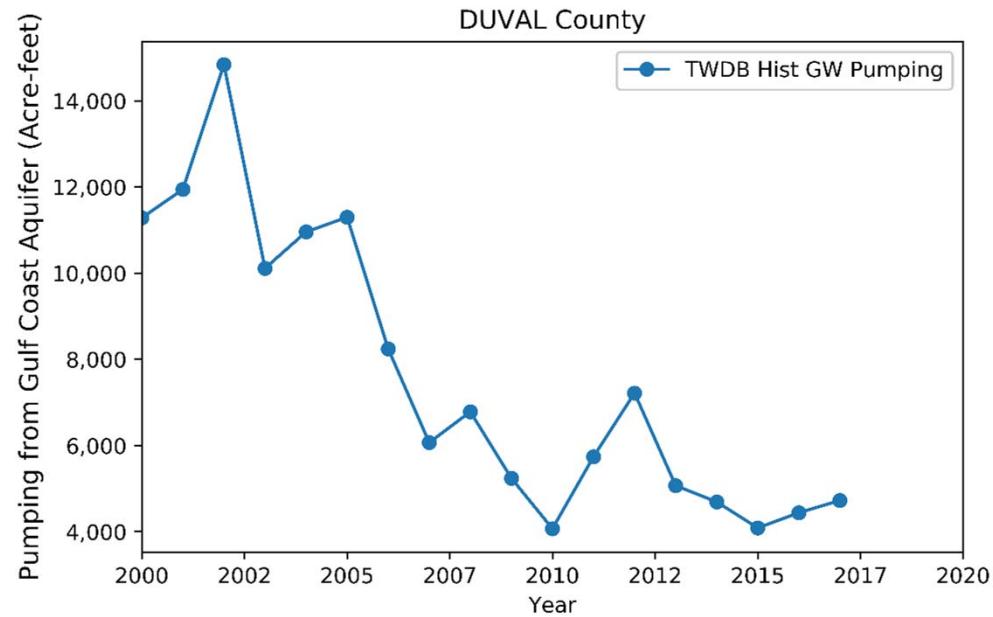
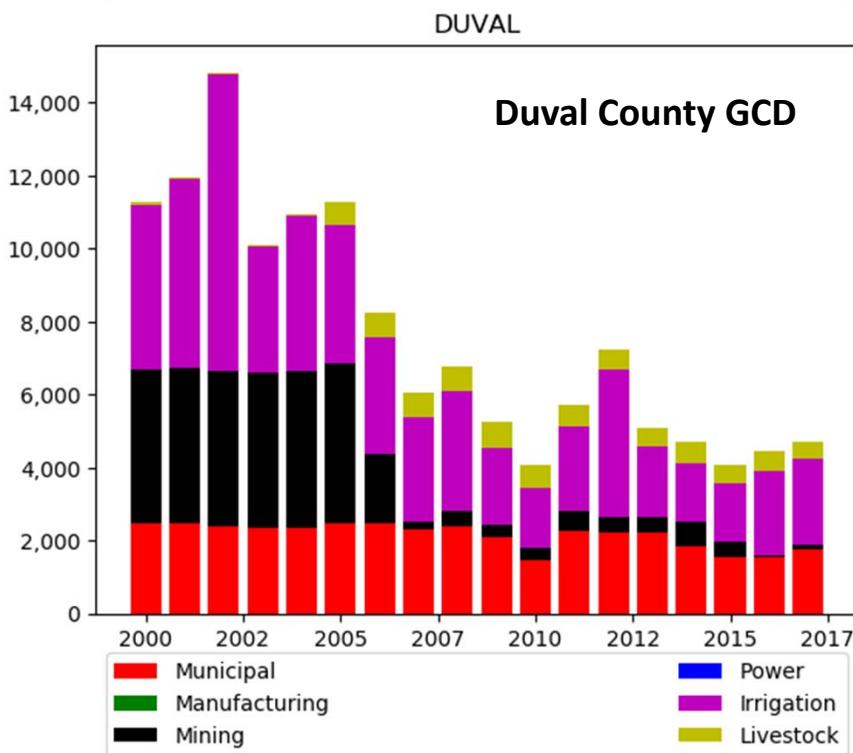
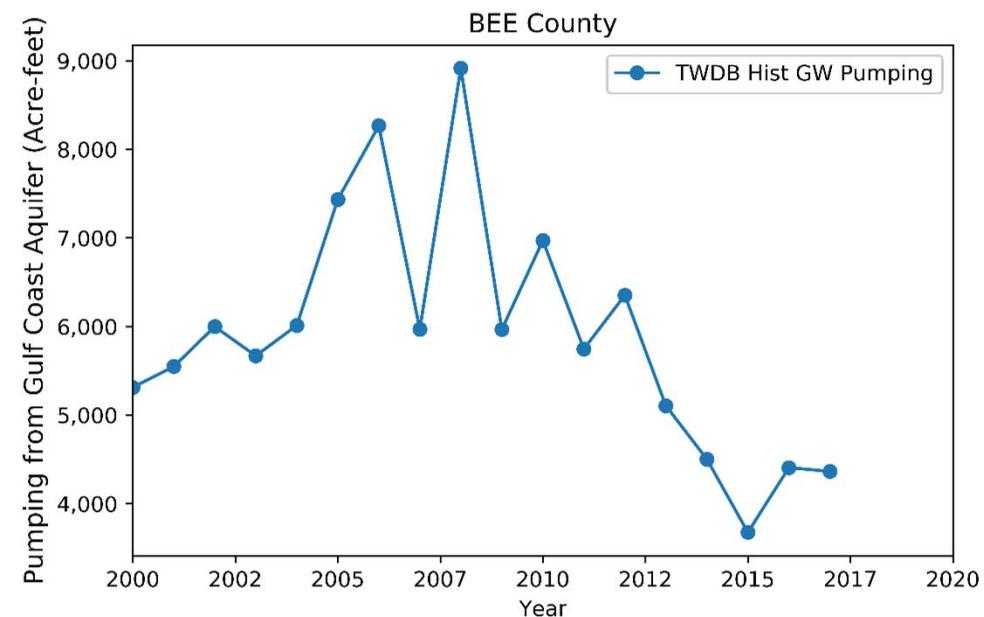
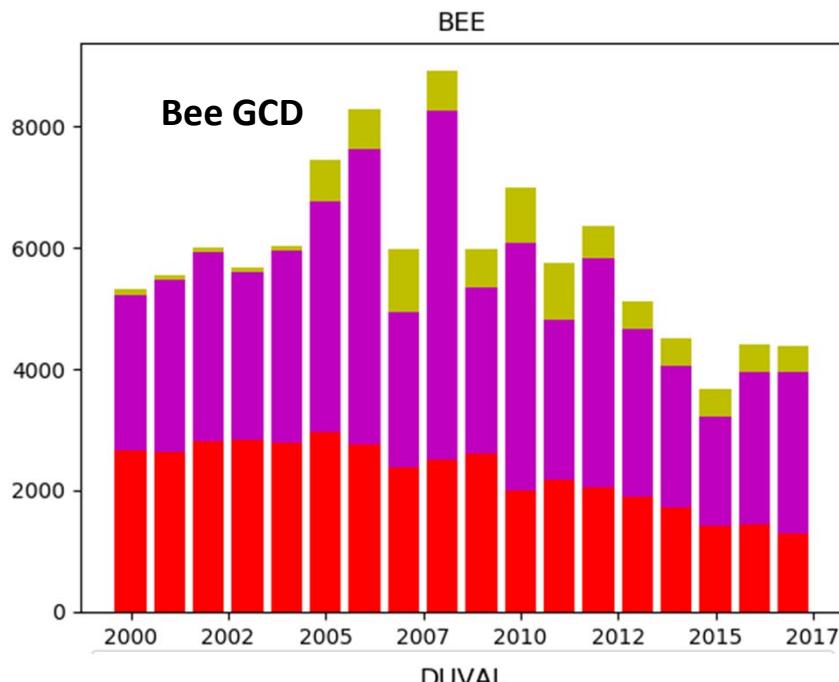
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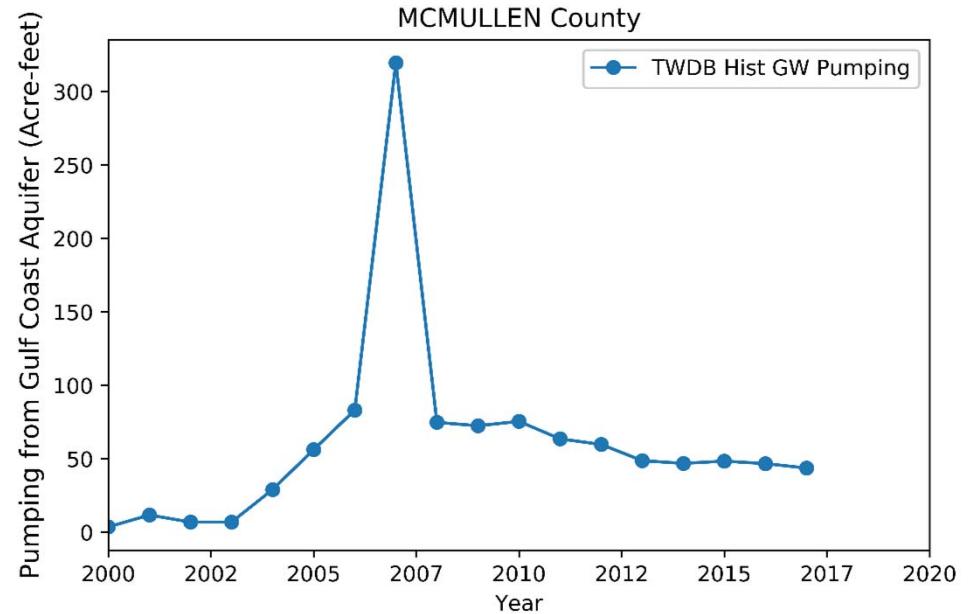
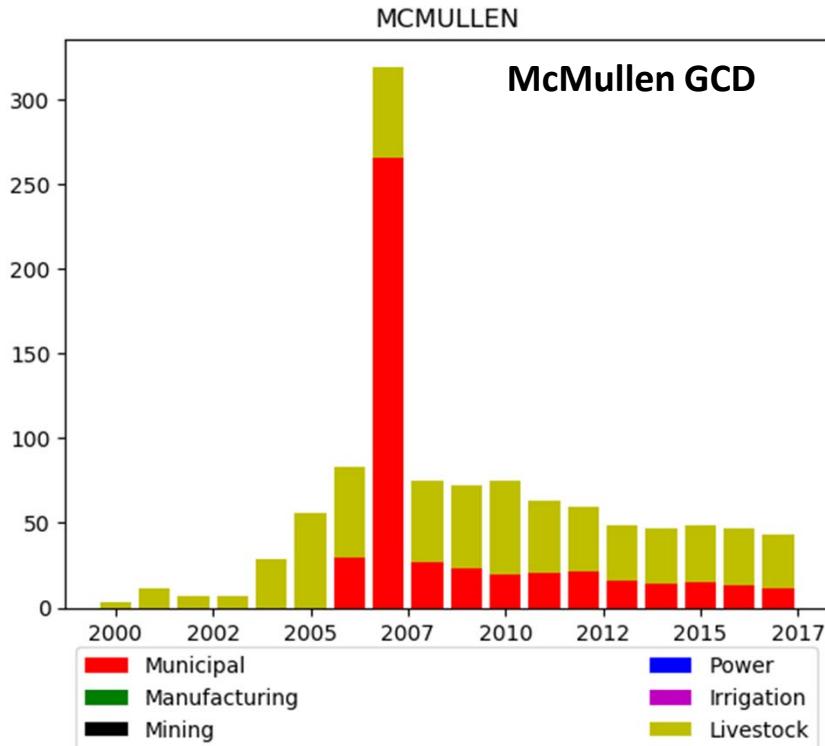
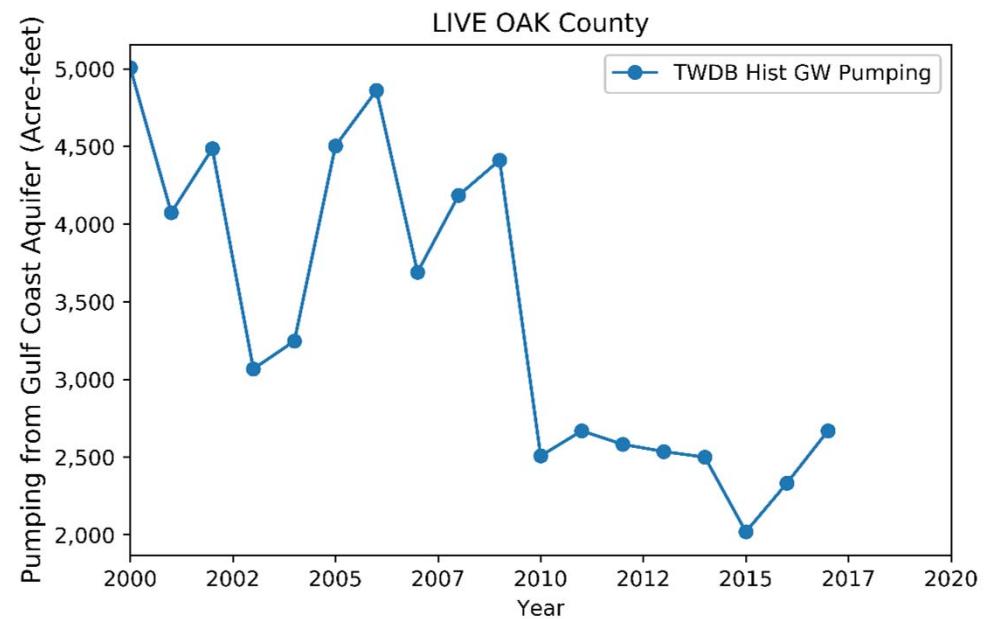
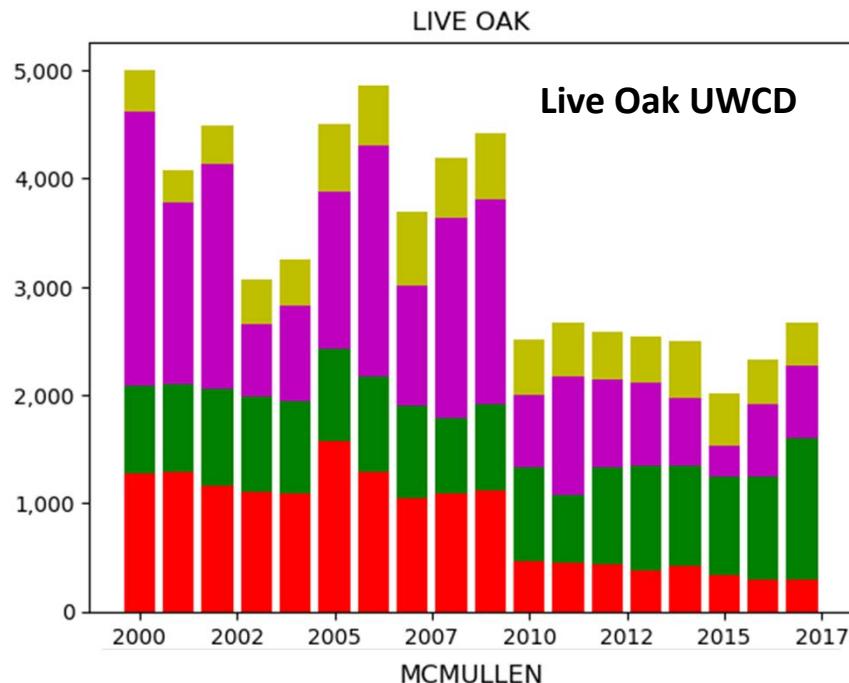


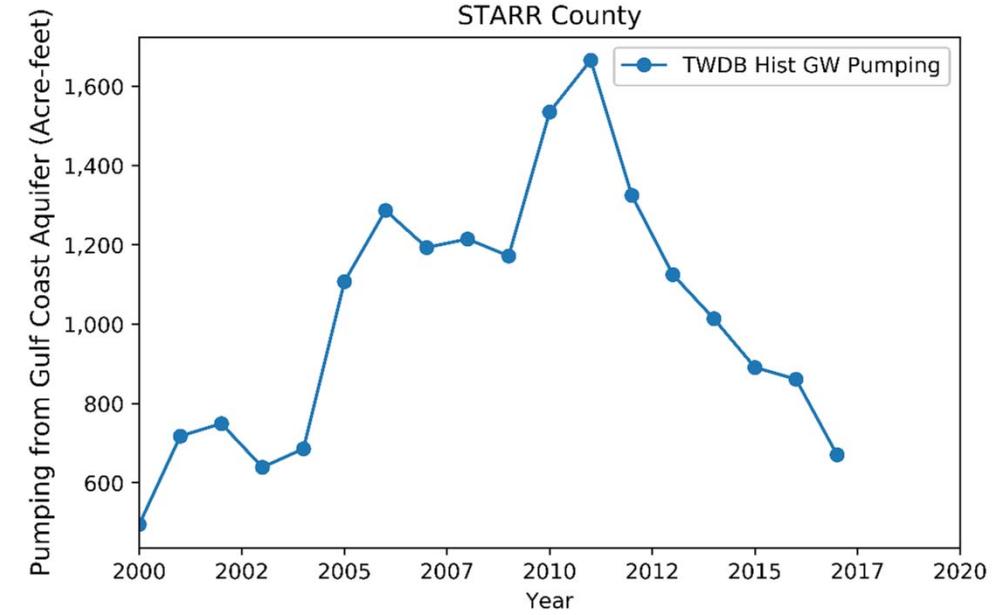
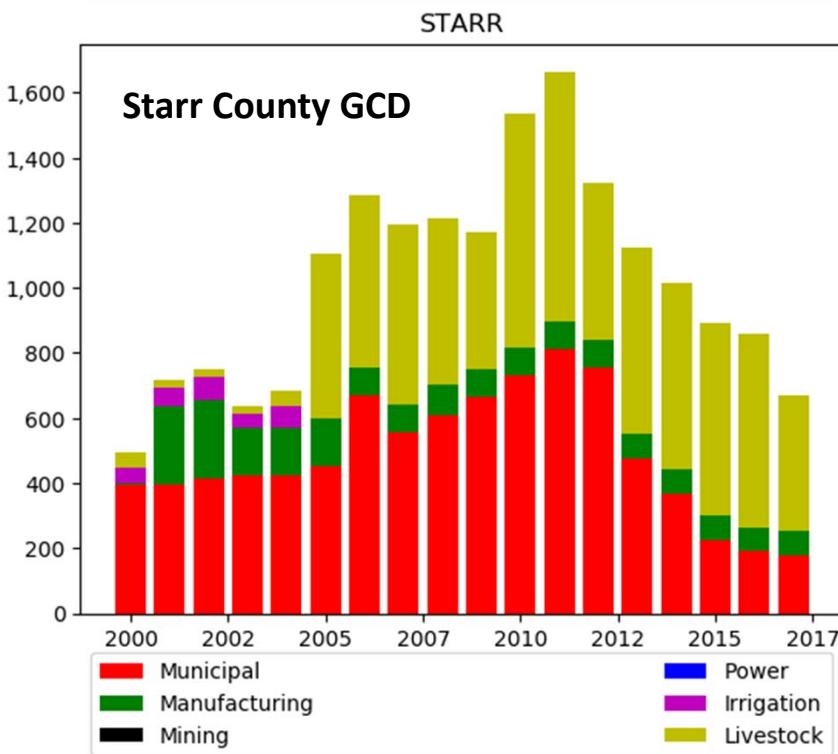
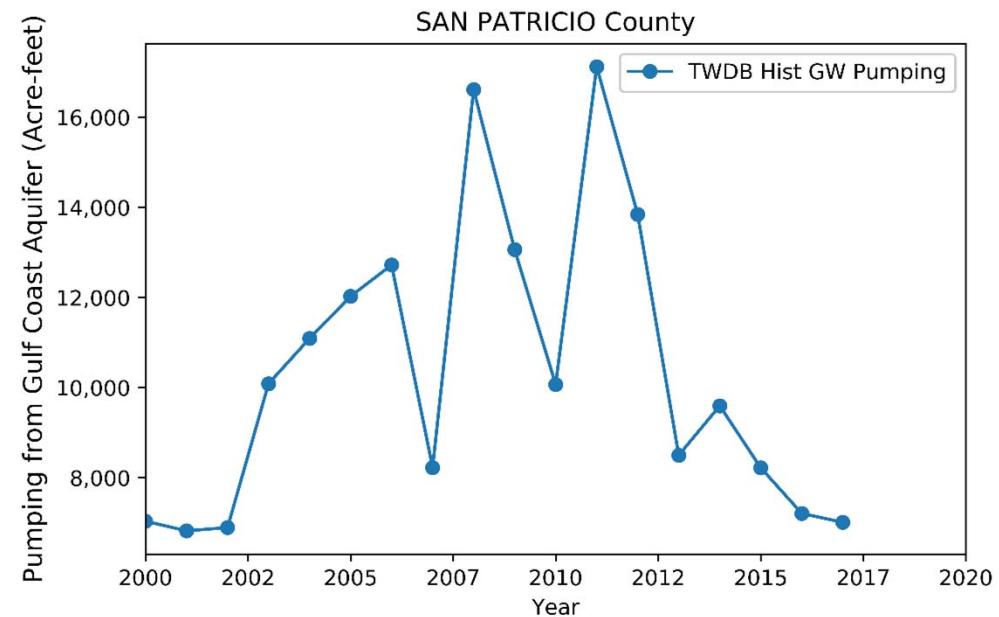
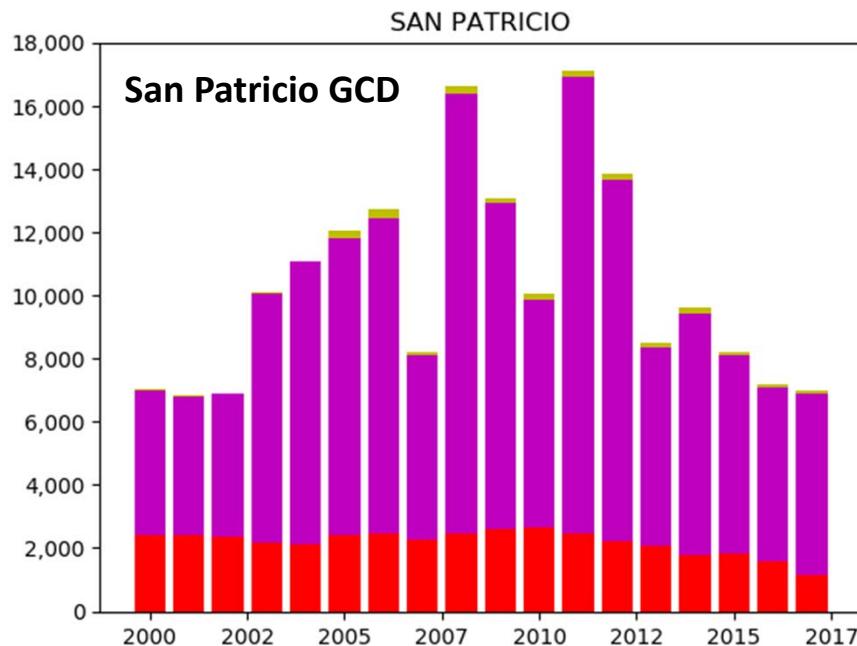
# Gulf Coast Aquifer



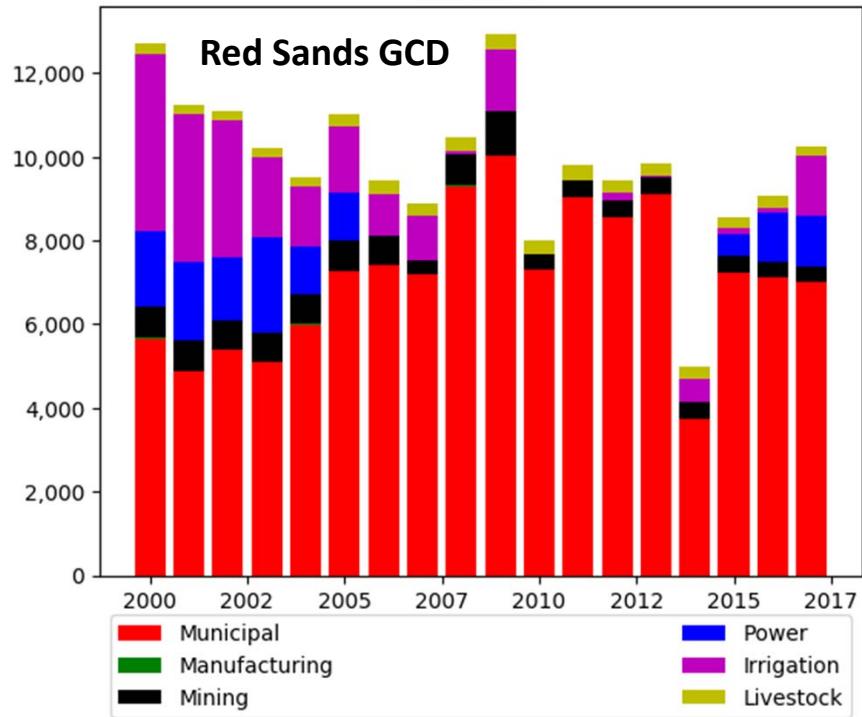
From TWDB's *Aquifers of Texas* (George and others, 2011)



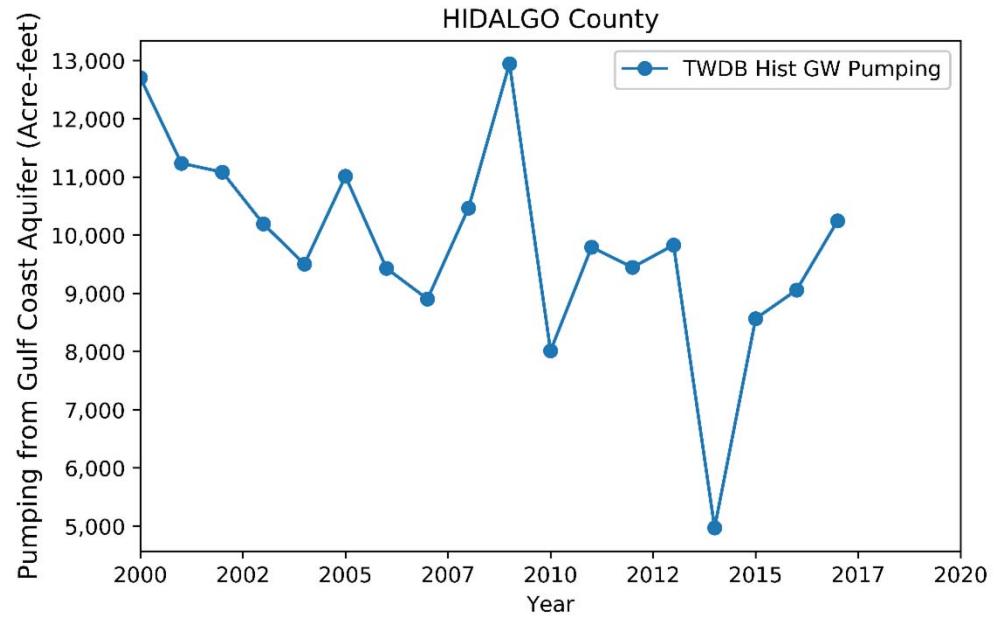


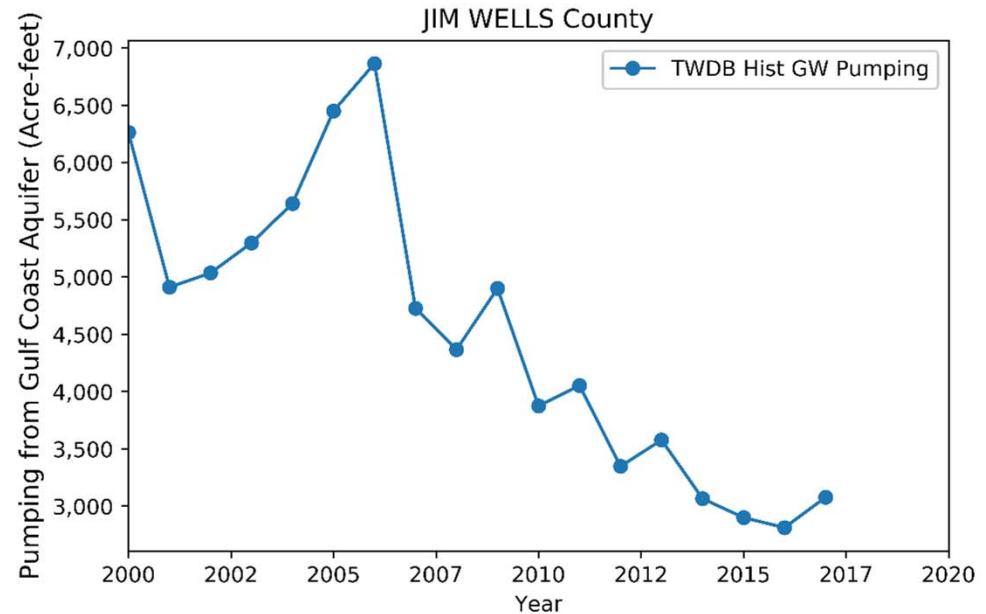
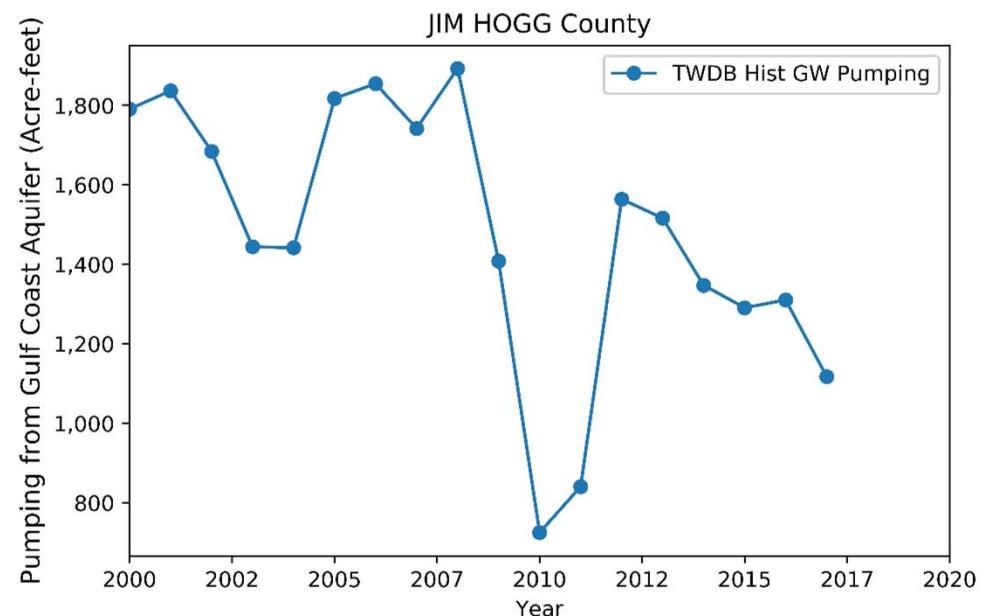
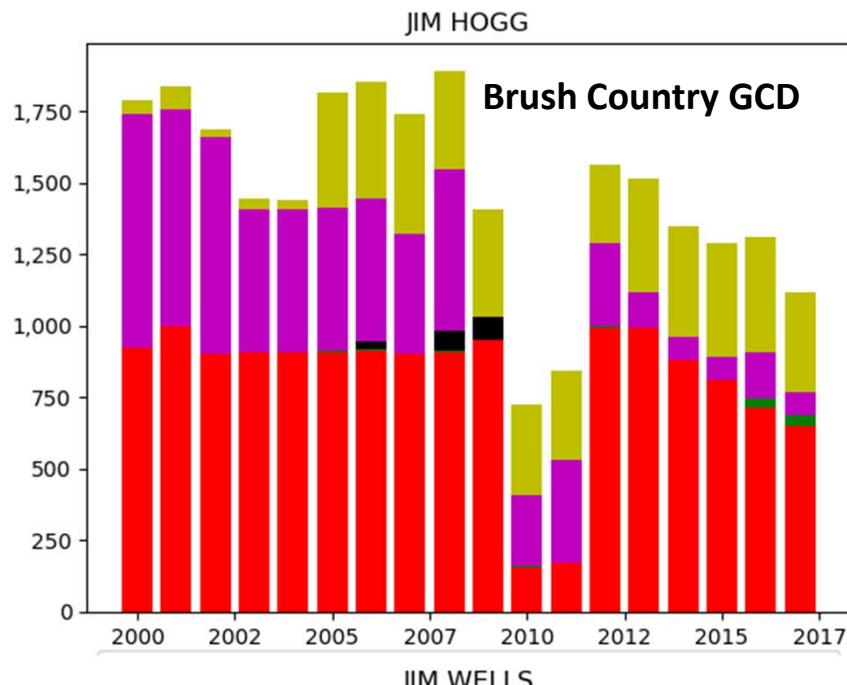


### HIDALGO

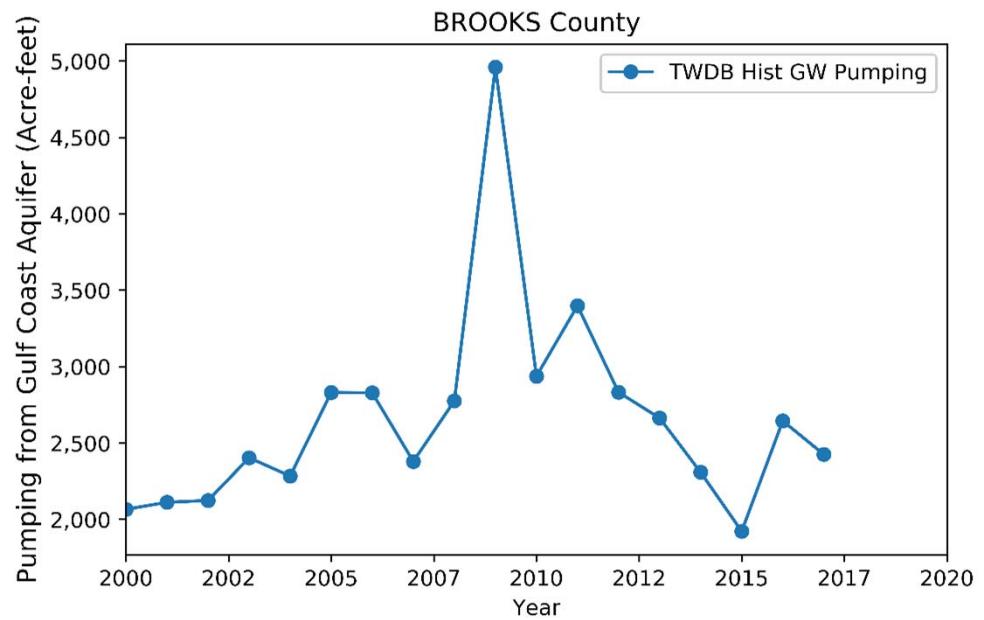
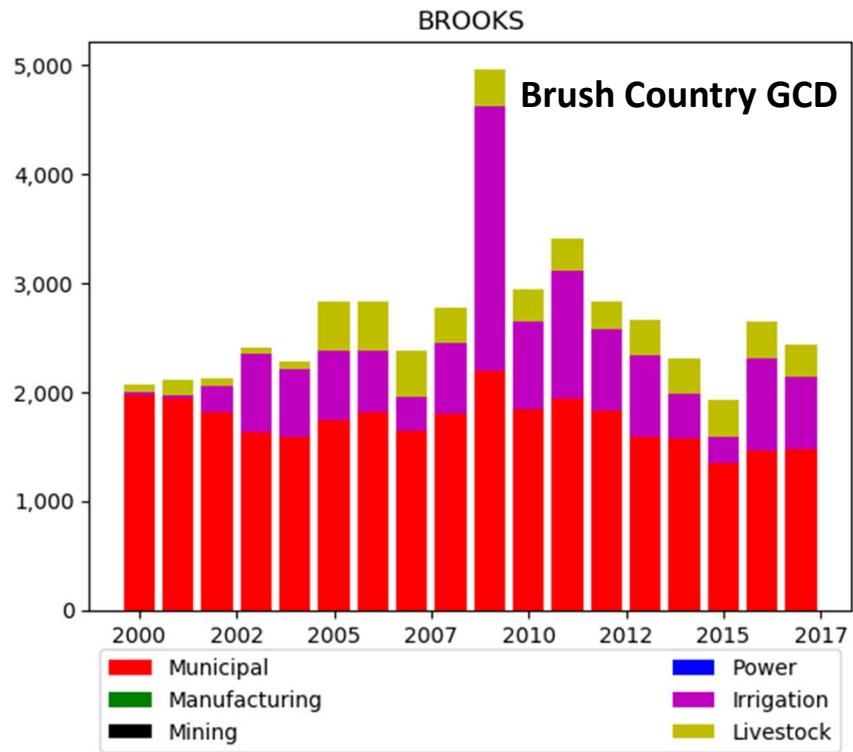


### HIDALGO County

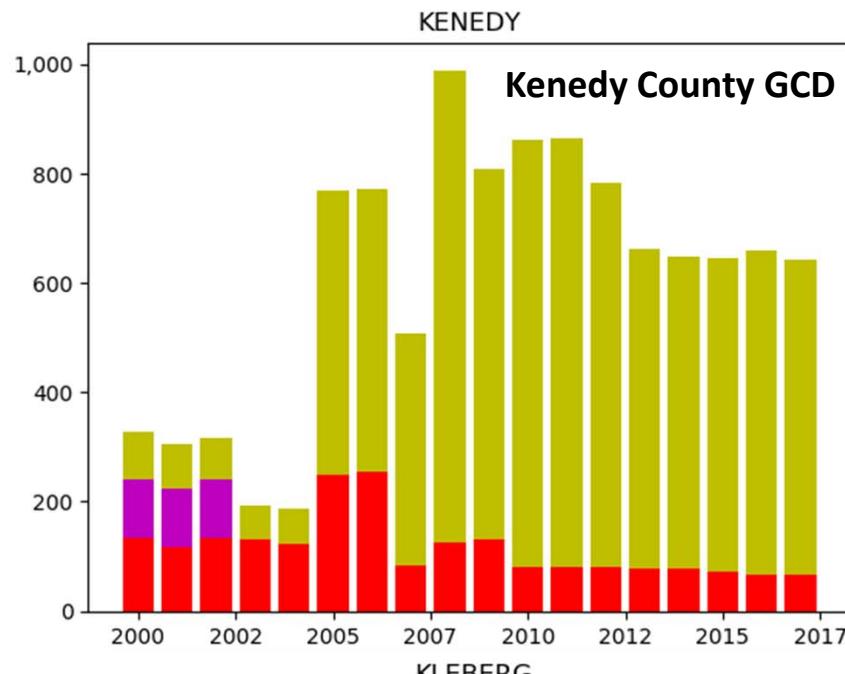




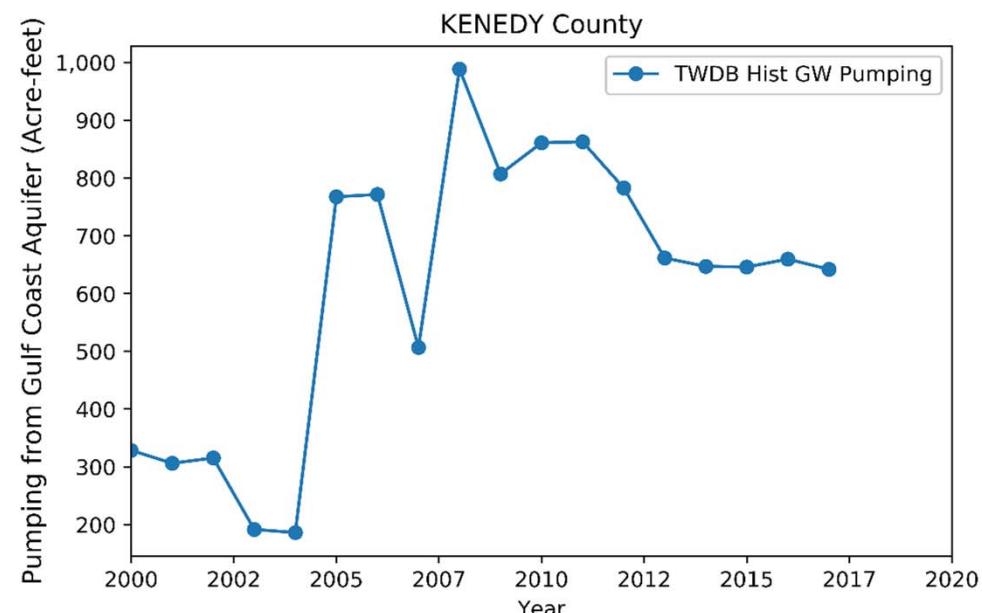
█ Municipal  
█ Manufacturing  
█ Irrigation  
█ Livestock



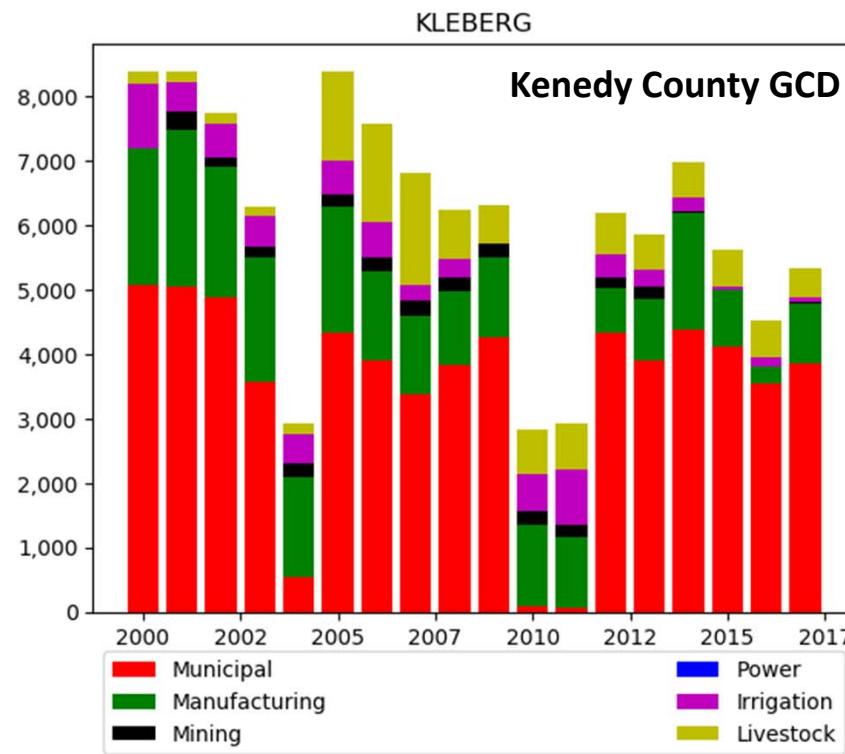
KENEDY



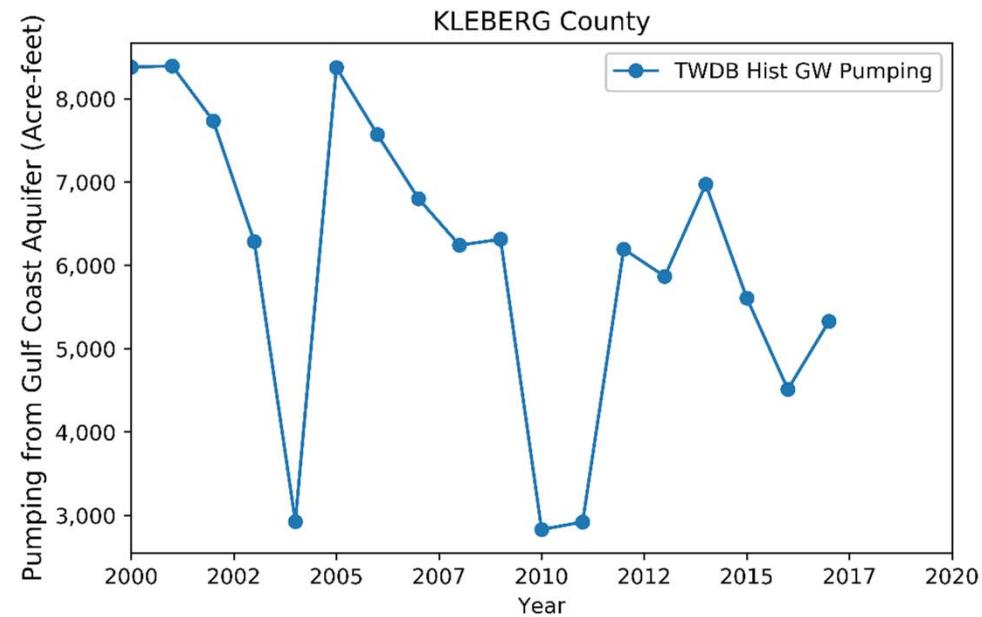
KENEDY County



KLEBERG

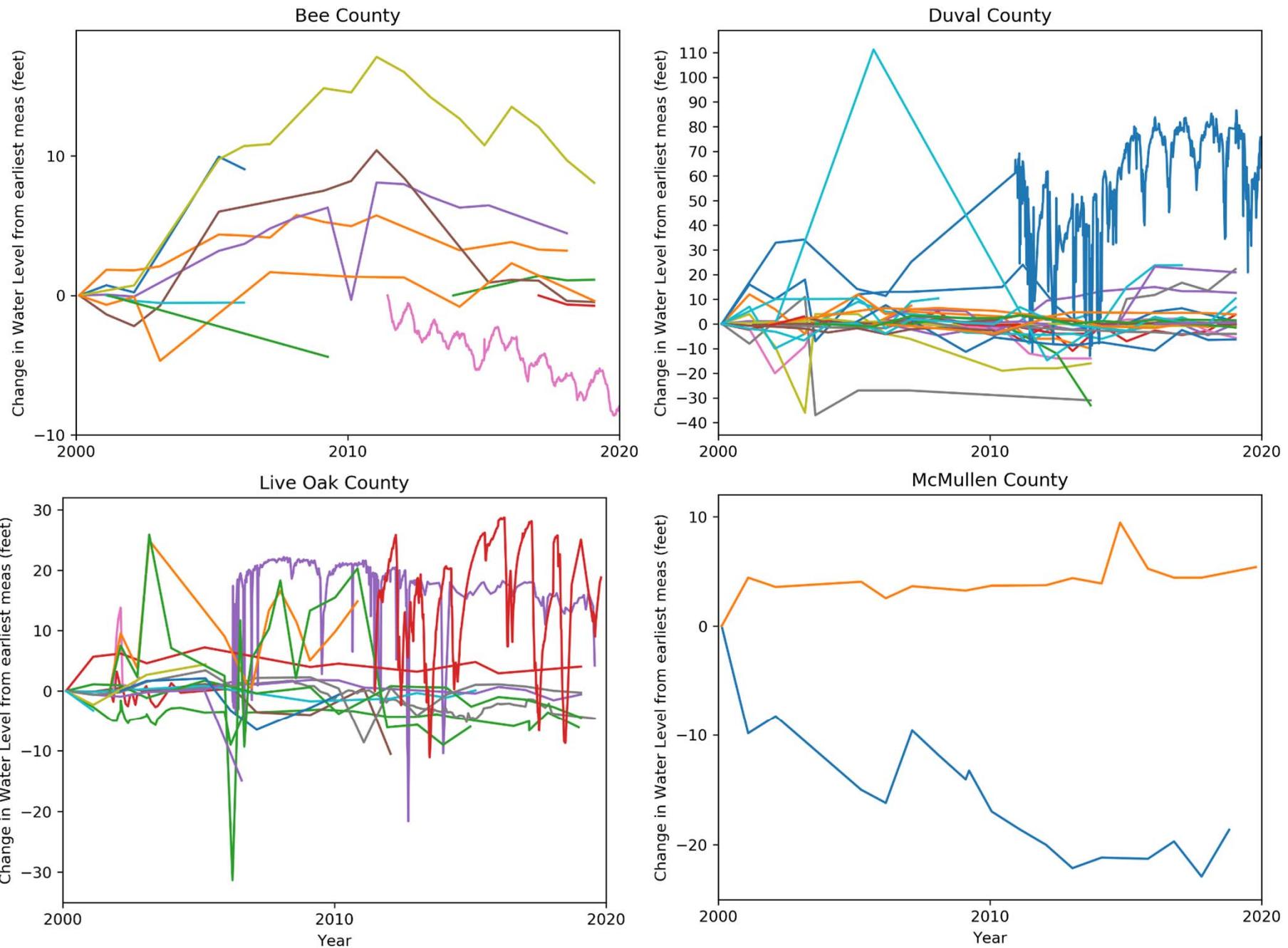


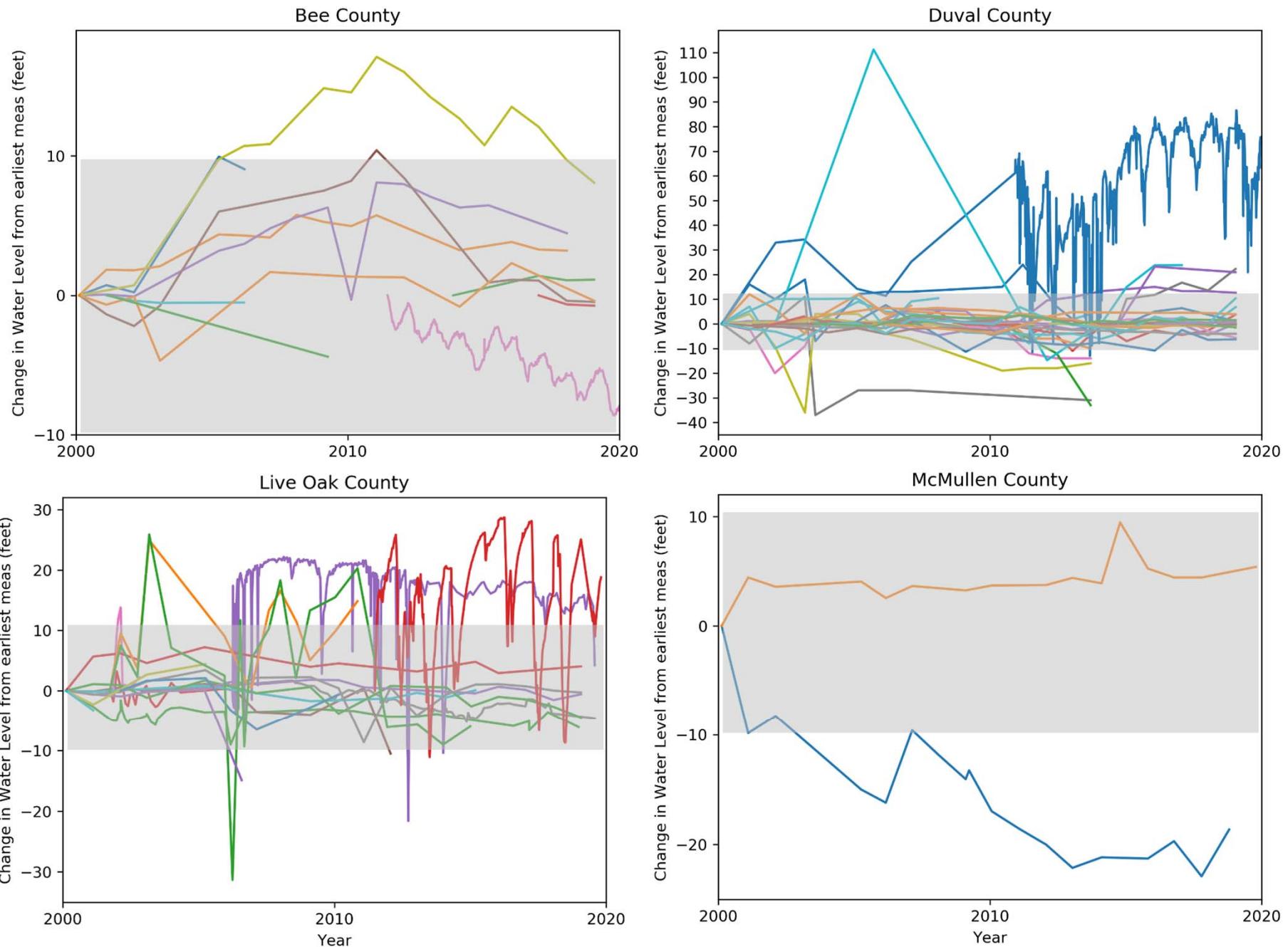
KLEBERG County

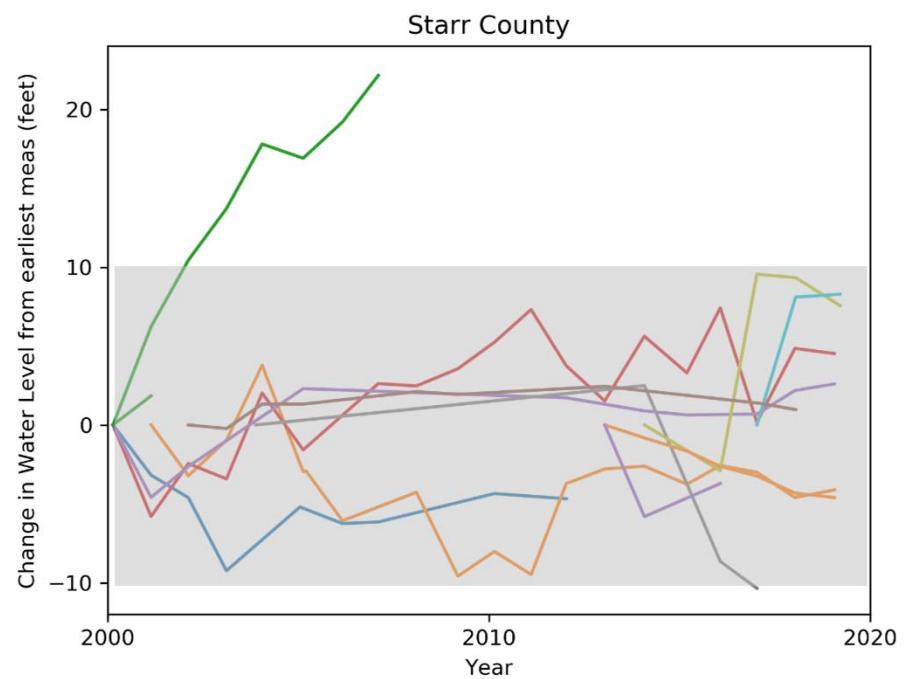
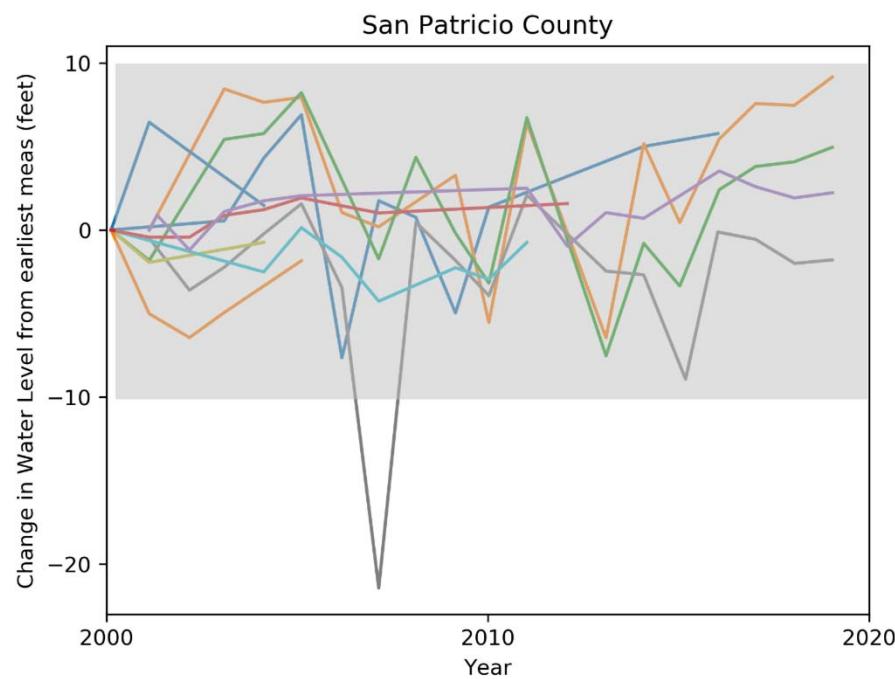


# TWDB Groundwater Levels

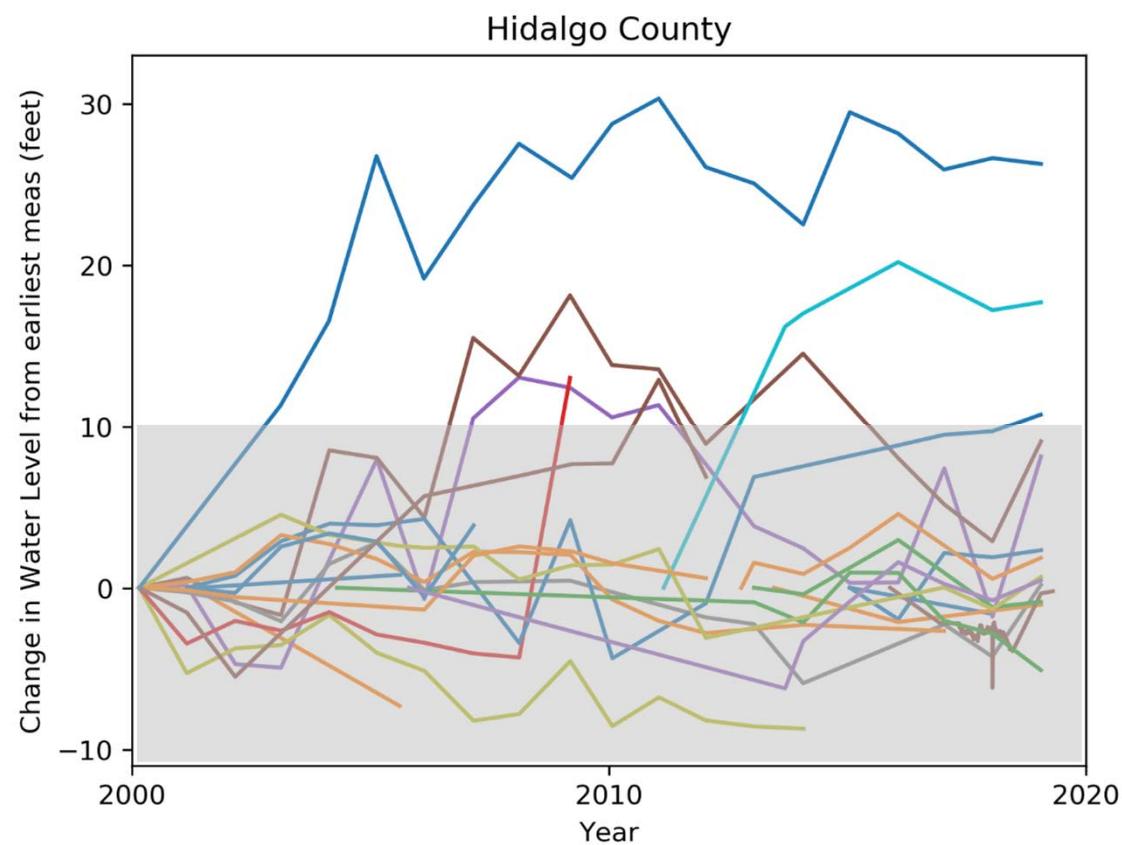
- TWDB Groundwater database
- Downloaded from  
[http://www.twdb.texas.gov/groundwater/data/gwdb\\_rpt.asp](http://www.twdb.texas.gov/groundwater/data/gwdb_rpt.asp)
- Compiled on County-level *NOT* on GCD-level
- Designated as Gulf Coast Aquifer, not as component formations
- Drawdown from 2000 (or earliest measurement)
- Most water levels stable  $\pm$  10 ft



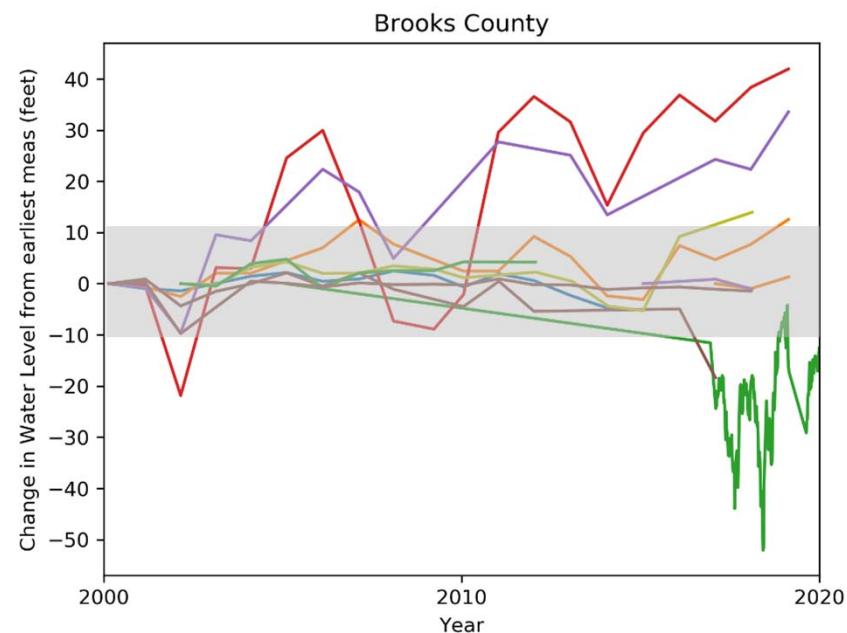
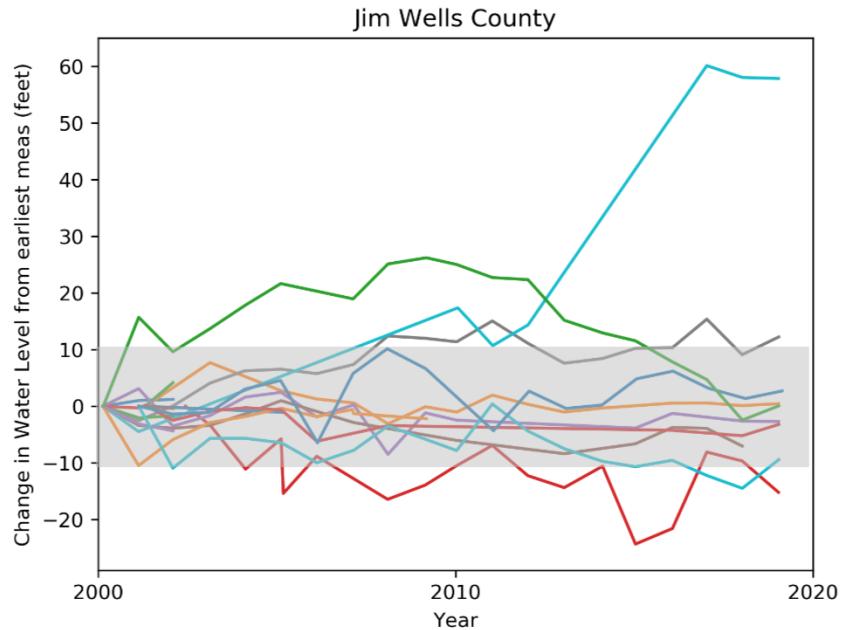
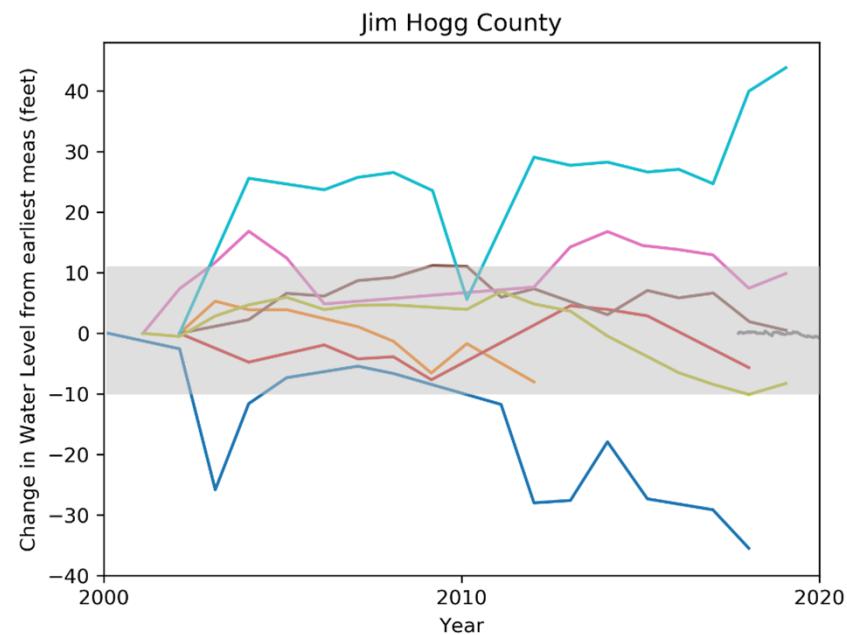




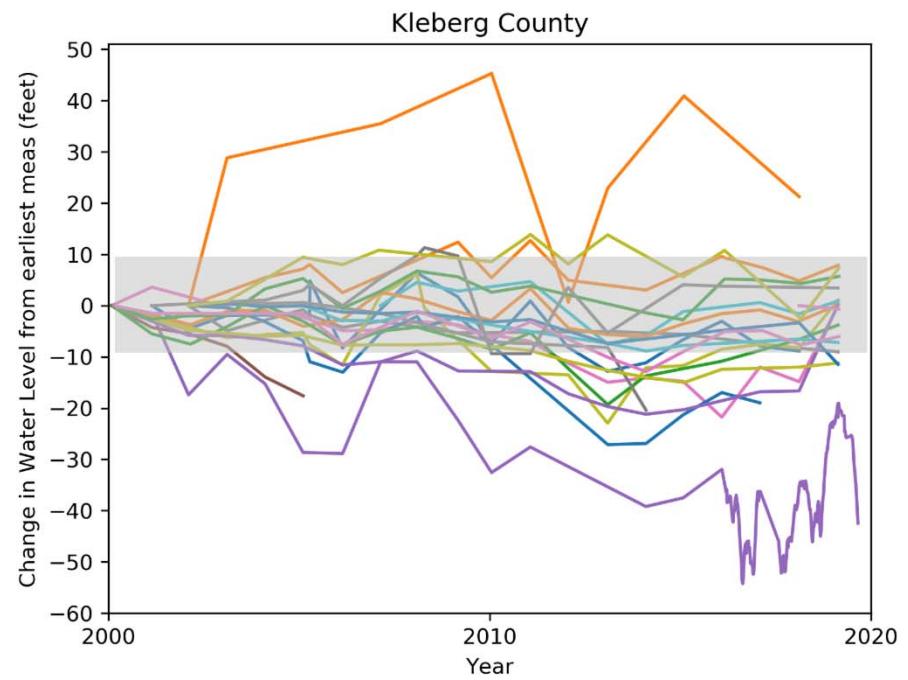
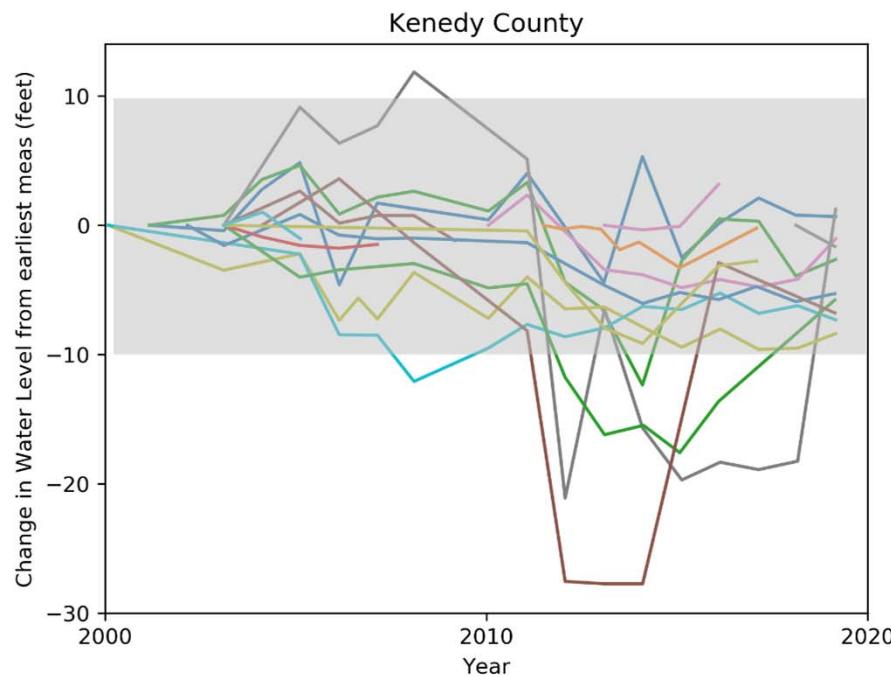
# Red Sands GCD



# Brush Country GCD



# Kenedy County GCD



# Questions?