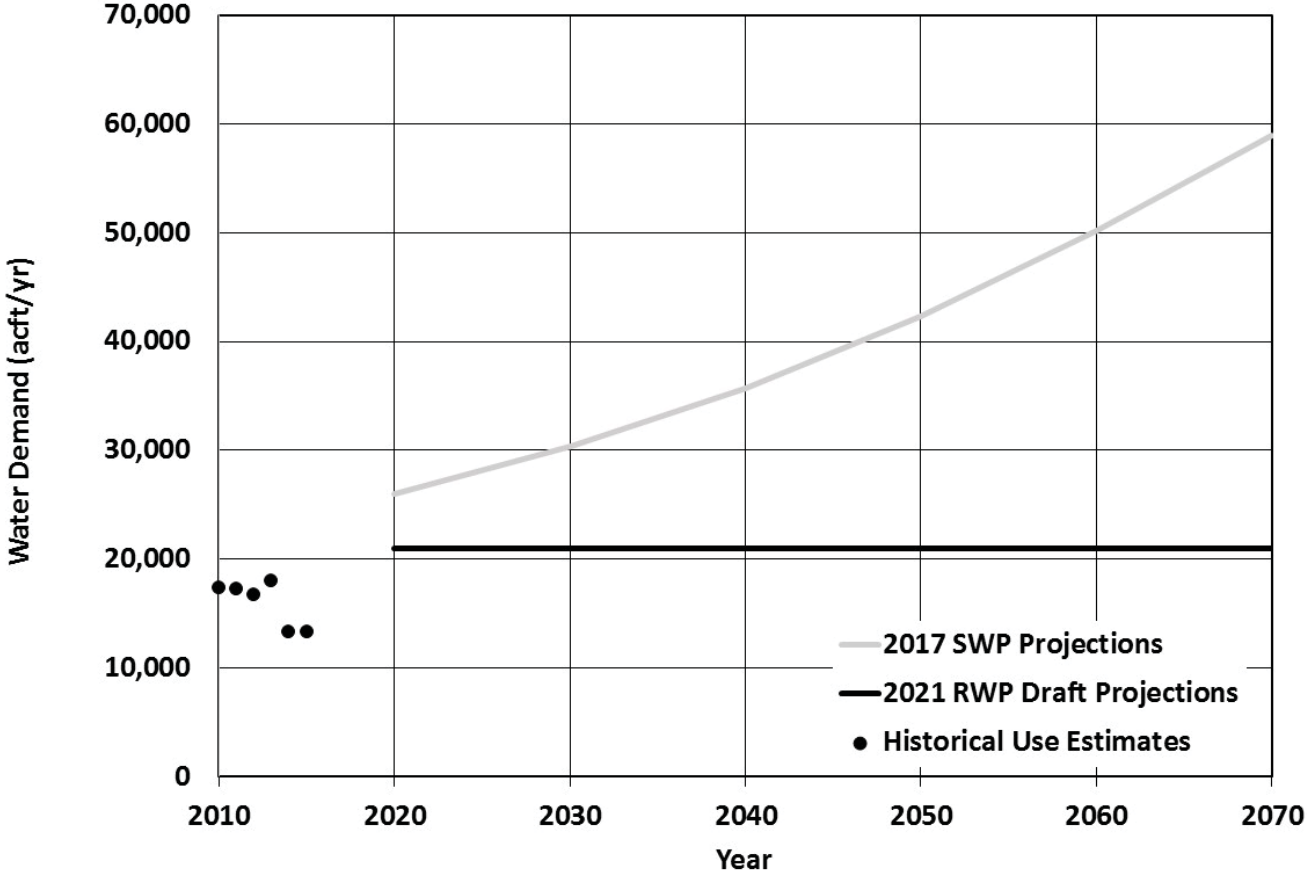


Steam-Electric Water Demands

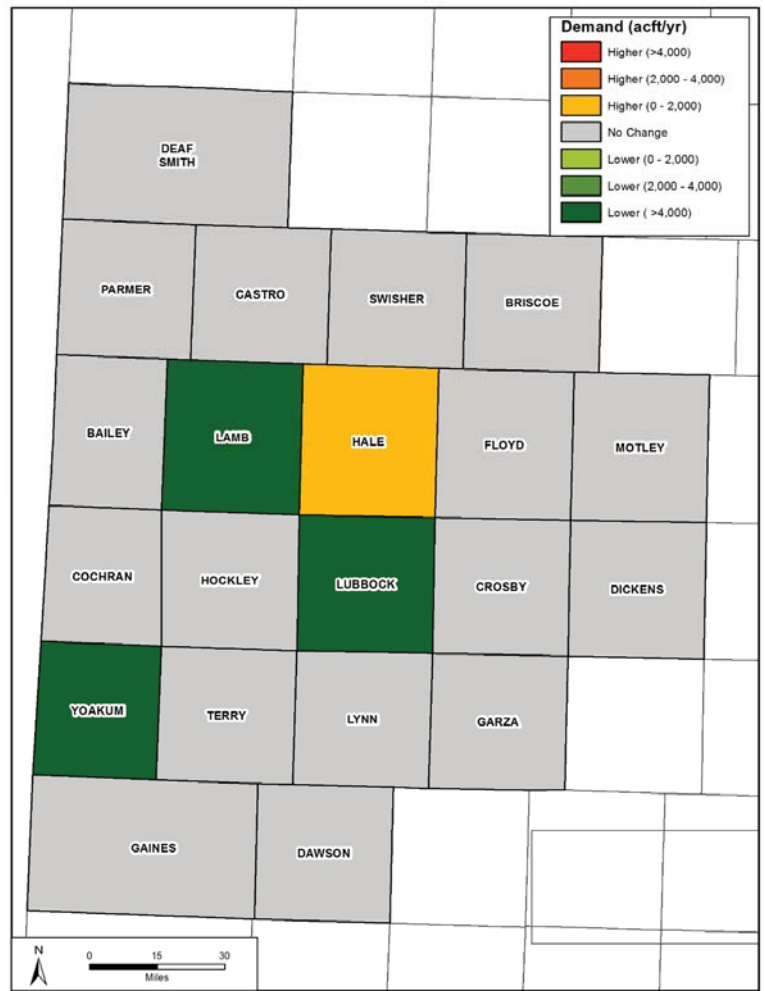
- 58,976 to 20,943 acft/yr in 2070
- 2017 SWP showed increase
- 2021 draft RWP projections show constant demand from 2020 through 2070
- Lamb County – 26,941 acft/yr decrease in 2070
- Hale County – 1,660 acft/yr increase in 2070



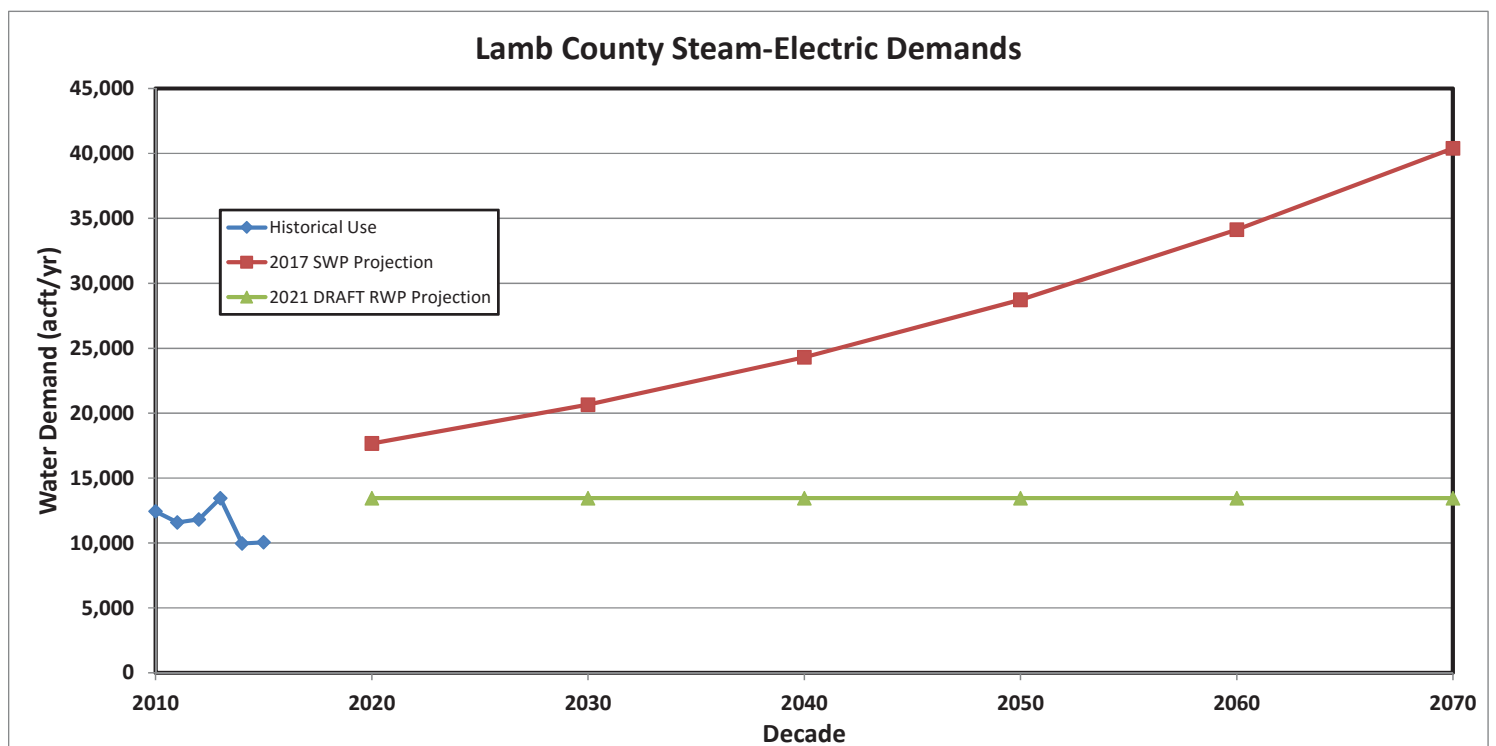
Region Total Steam-Electric Water Demands



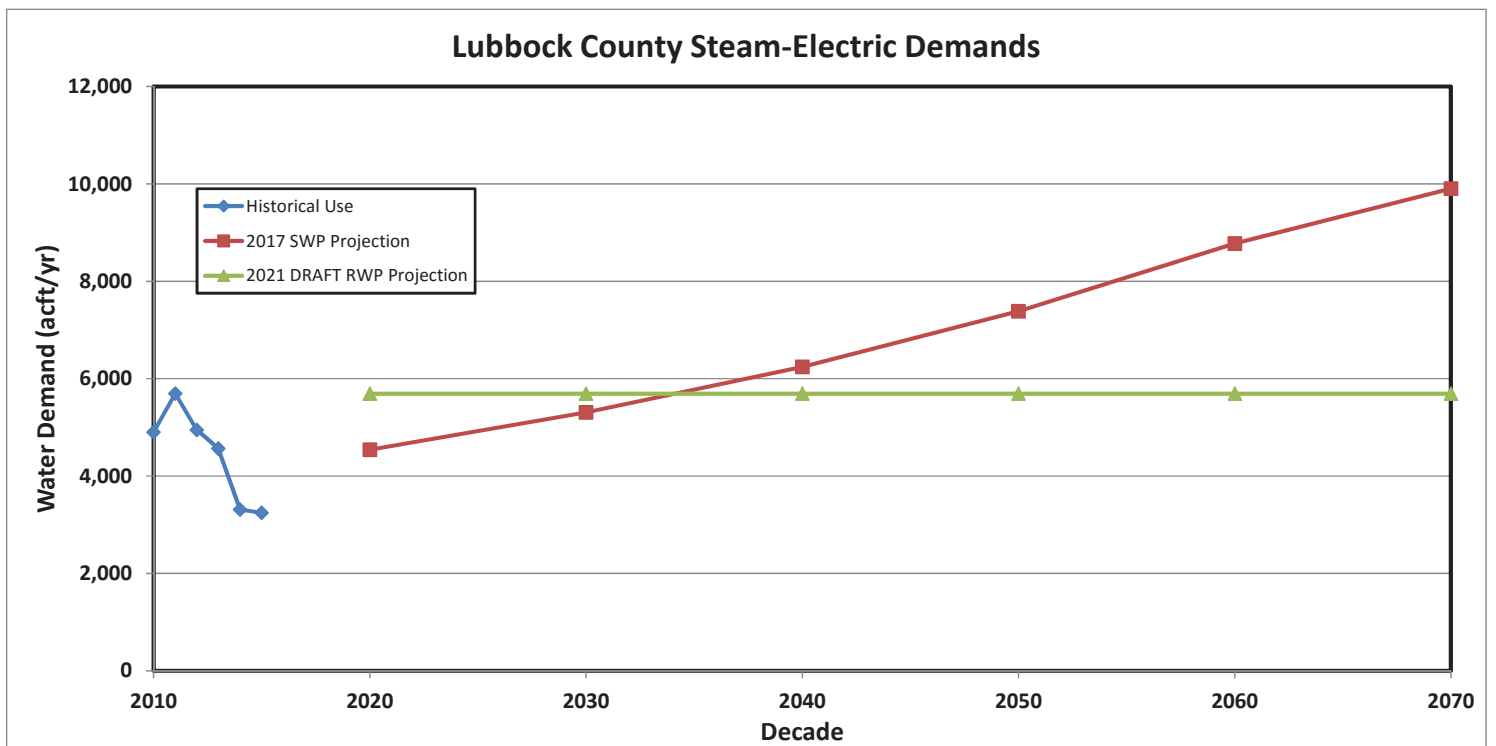
Changes in Steam-Electric Water Demands (Year 2070)



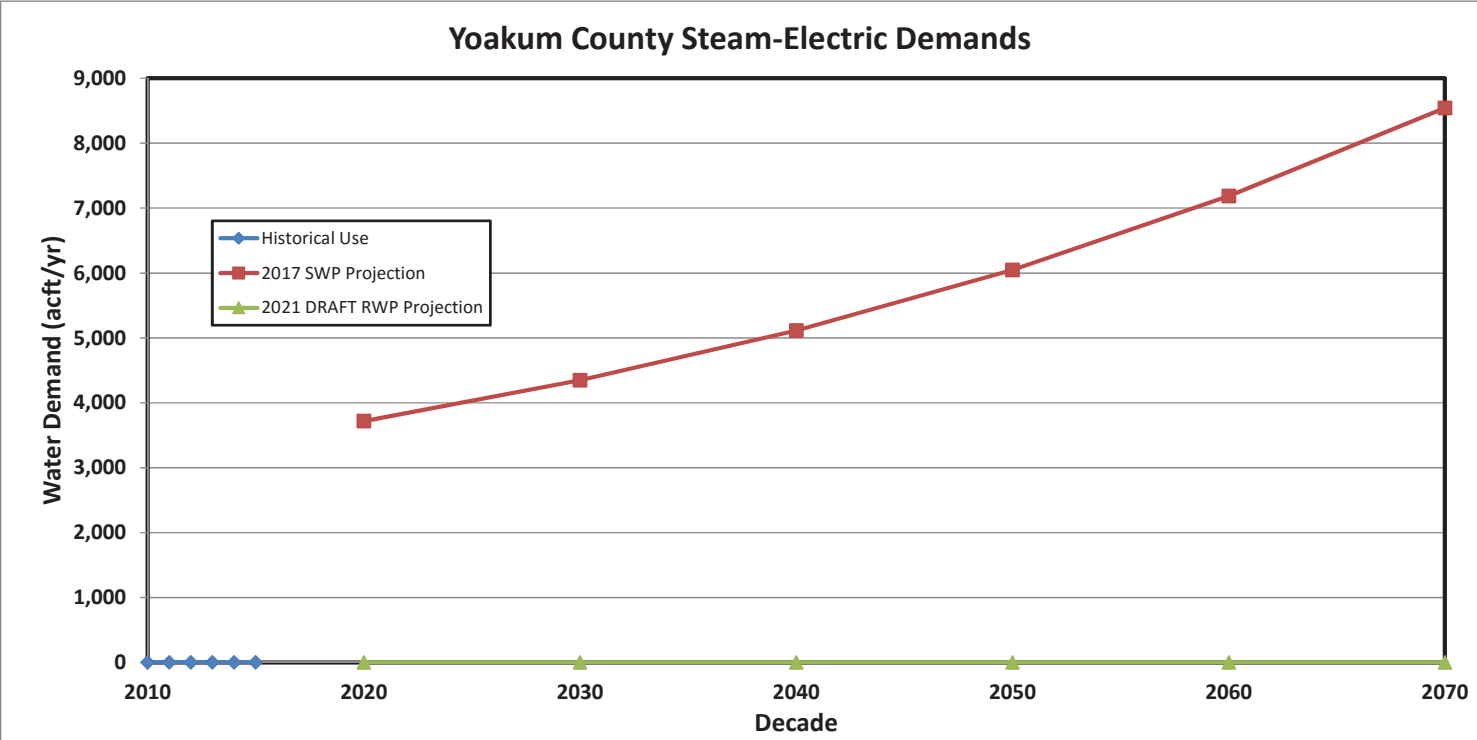
Counties with Significant Changes in Steam-Electric Demands



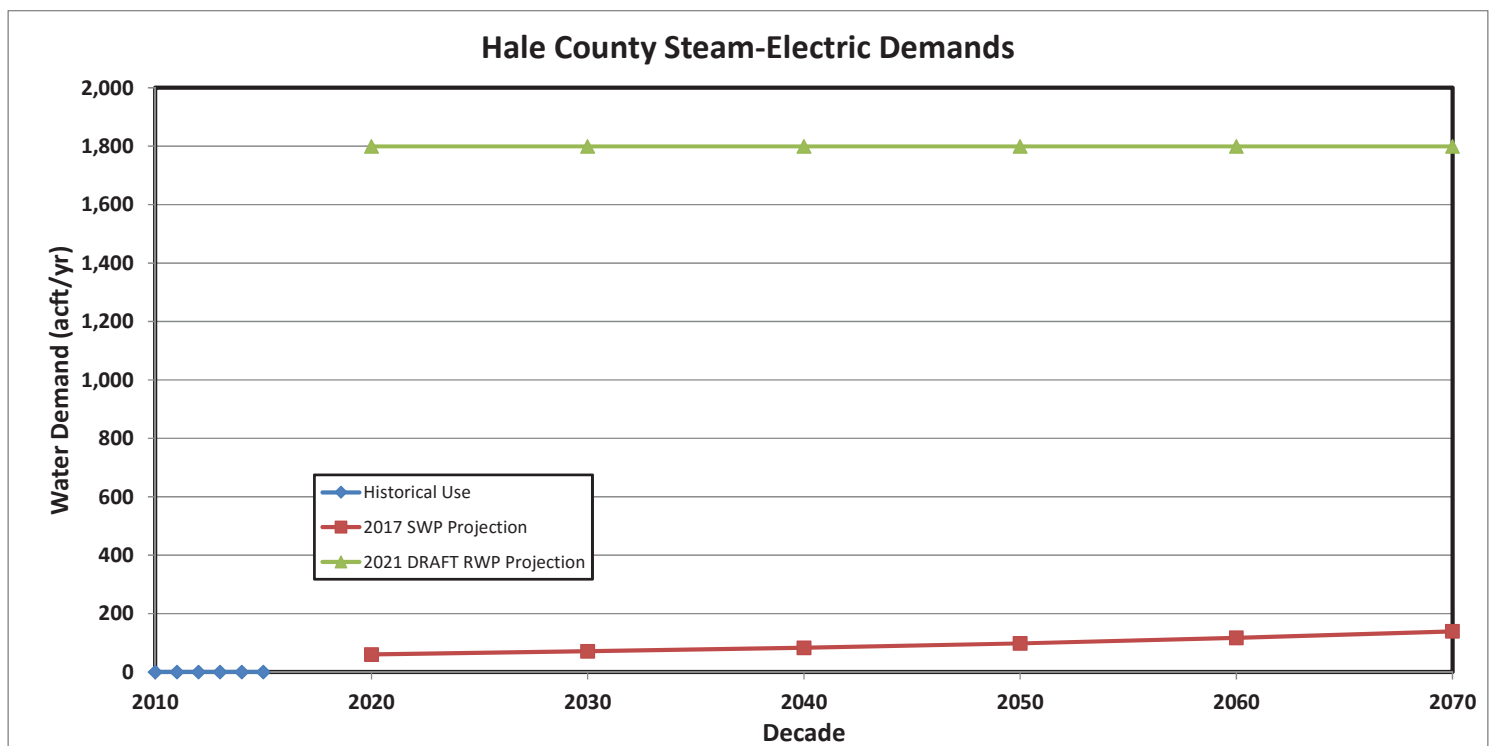
Counties with Significant Changes in Steam-Electric Demands



Counties with Significant Changes in Steam-Electric Demands



Counties with Significant Changes in Steam-Electric Demands

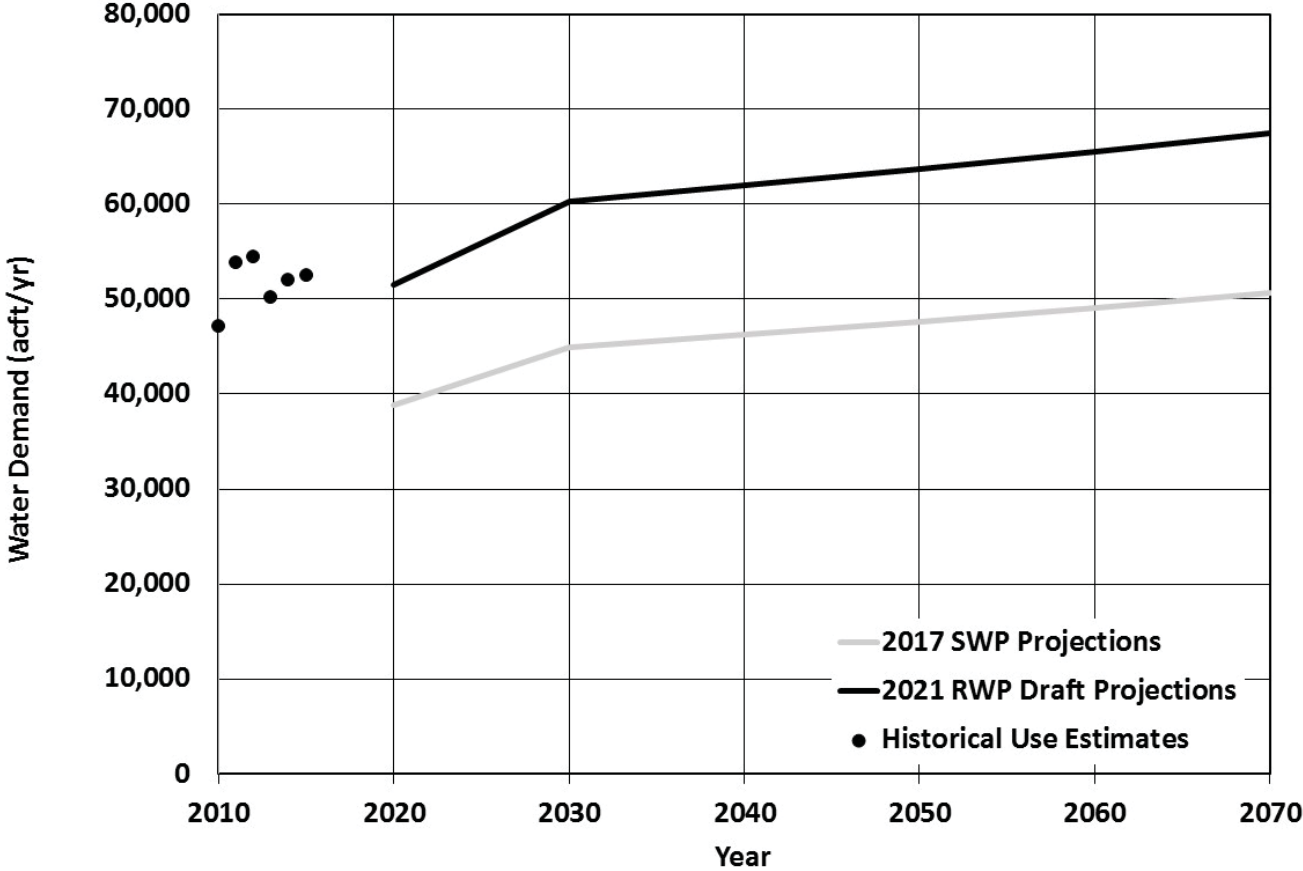


Livestock Water Demands

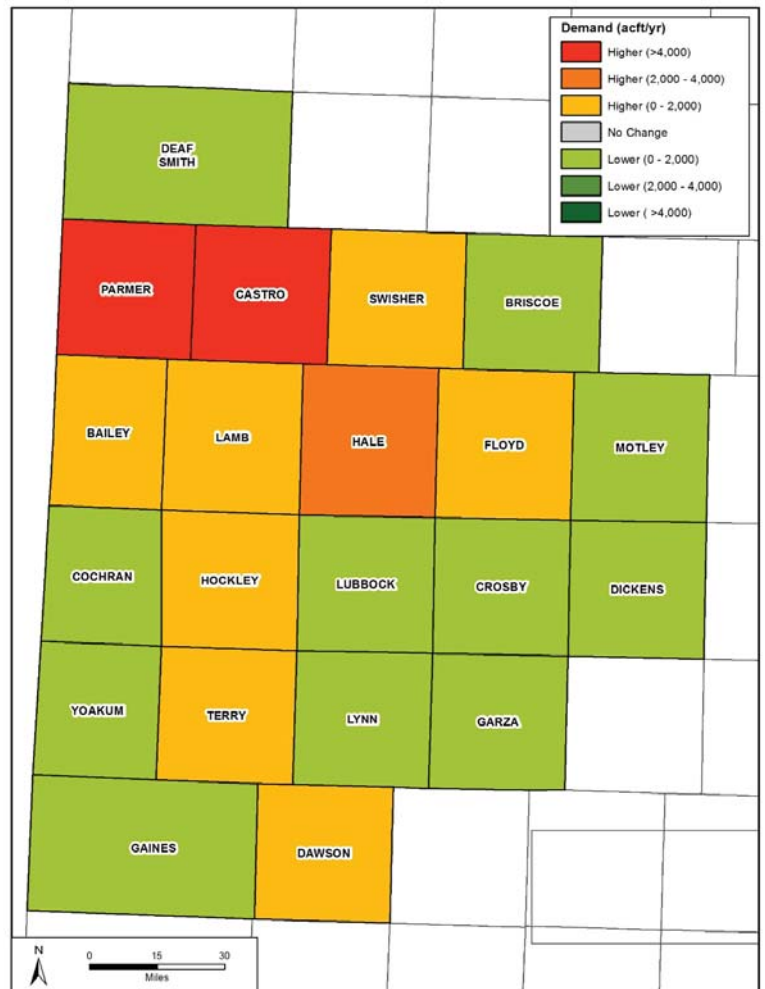
- 2070: 50,617 to 67,535 acft/yr
- Castro County – 6,290 acft/yr increase in 2070
- Parmer County – 5,637 acft/yr increase in 2070



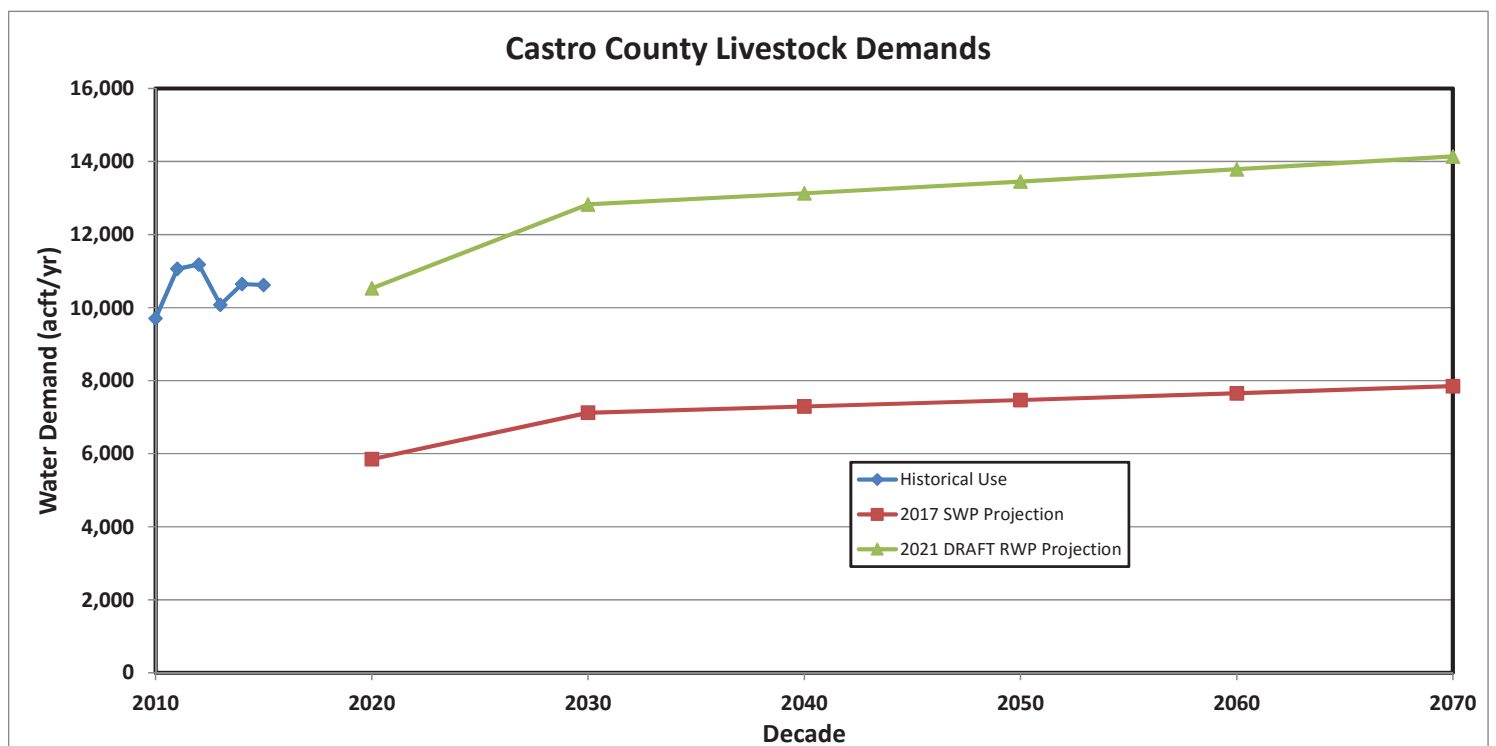
Region Total Livestock Water Demands



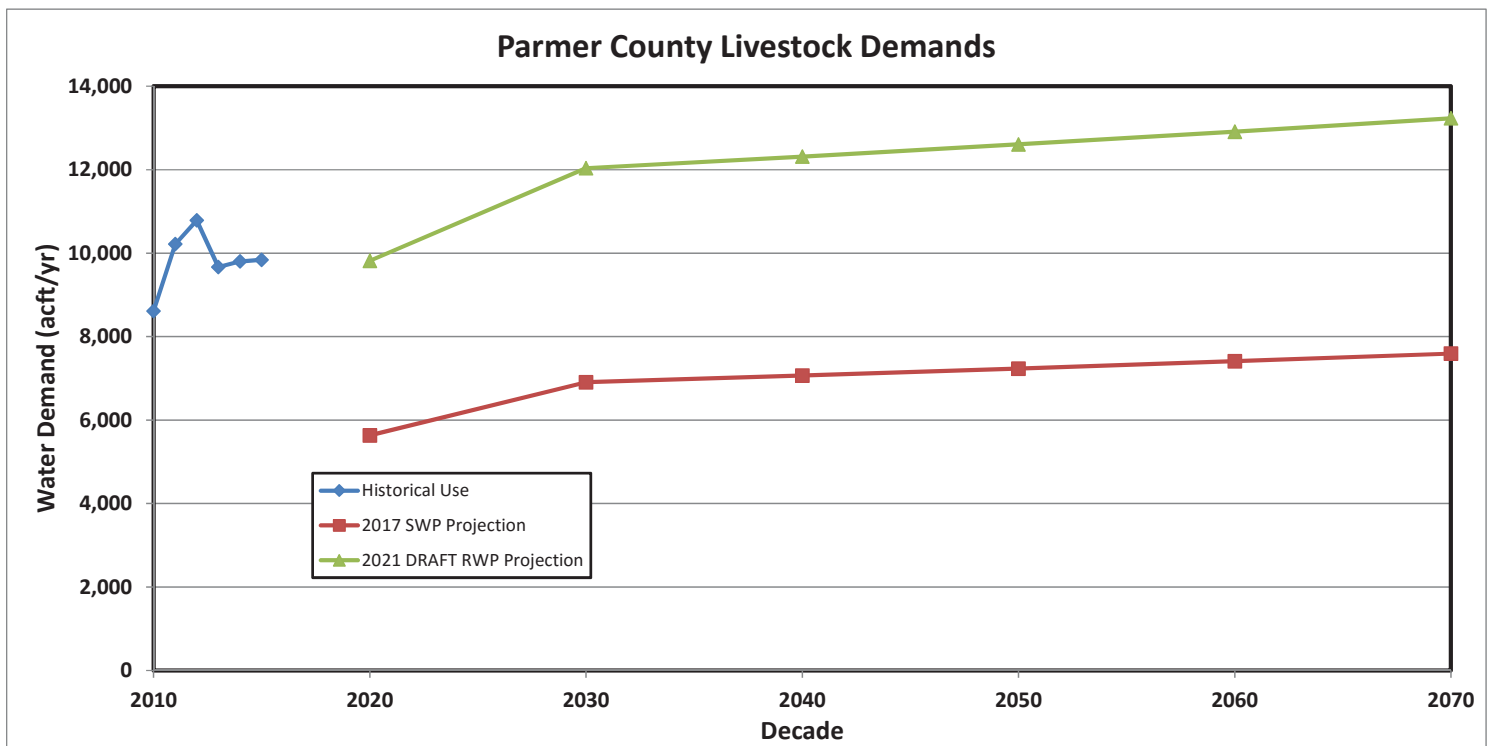
Changes in Livestock Water Demands (Year 2070)



Counties with Significant Changes in Livestock Demands



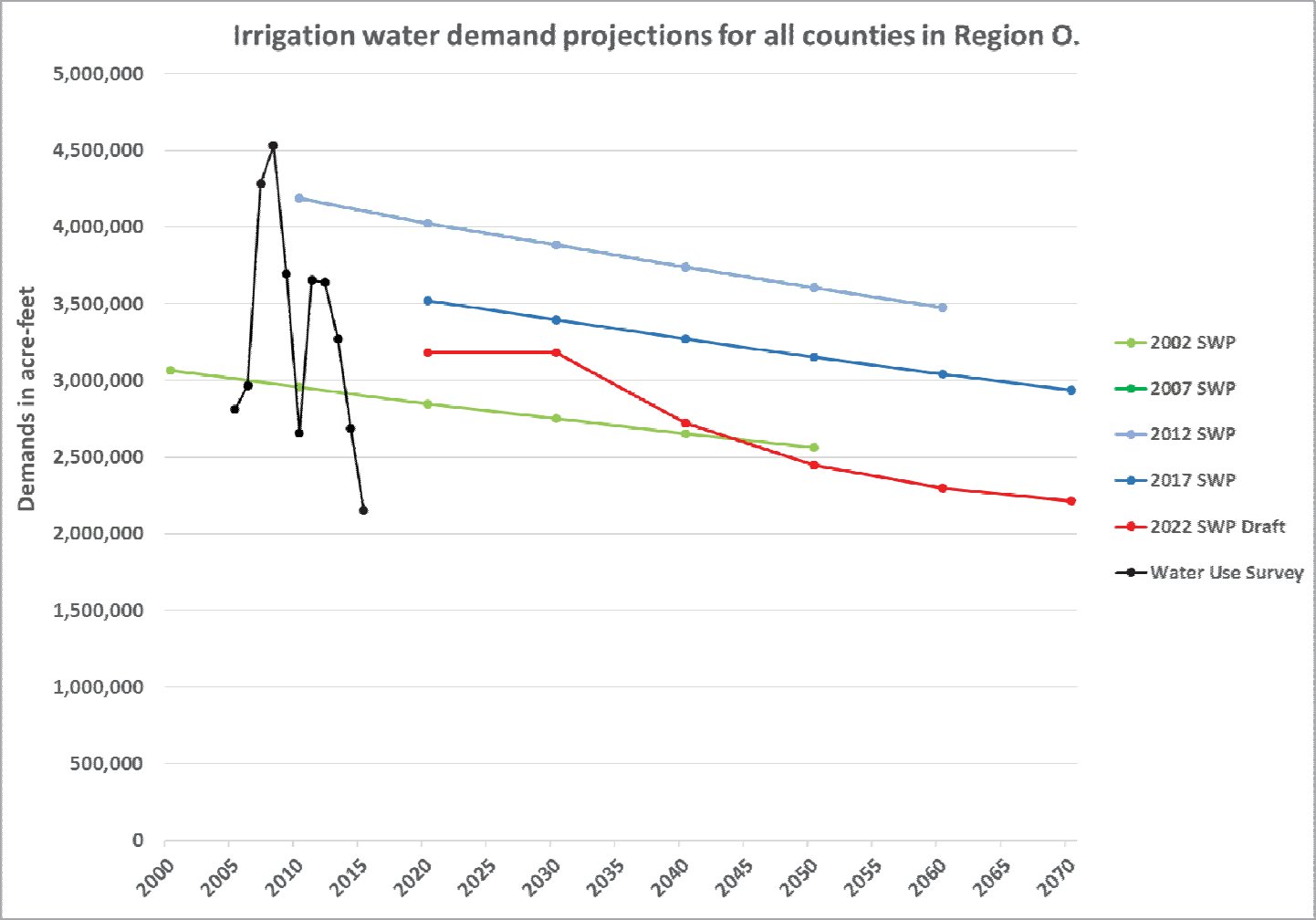
Counties with Significant Changes in Livestock Demands



Irrigation Water Demands

- 2070: 2,938,318 to 2,215,638 acft/yr
- Parmer County – 134,934 acft/yr decrease in 2070
- Swisher County – 112,041 acft/yr decrease in 2070
- Castro County – 97,131 acft/yr decrease in 2070
- Lynn County – 24,406 acft/yr increase in 2070





Source: TWDB (Sarah Backhouse)

Irrigation Projections

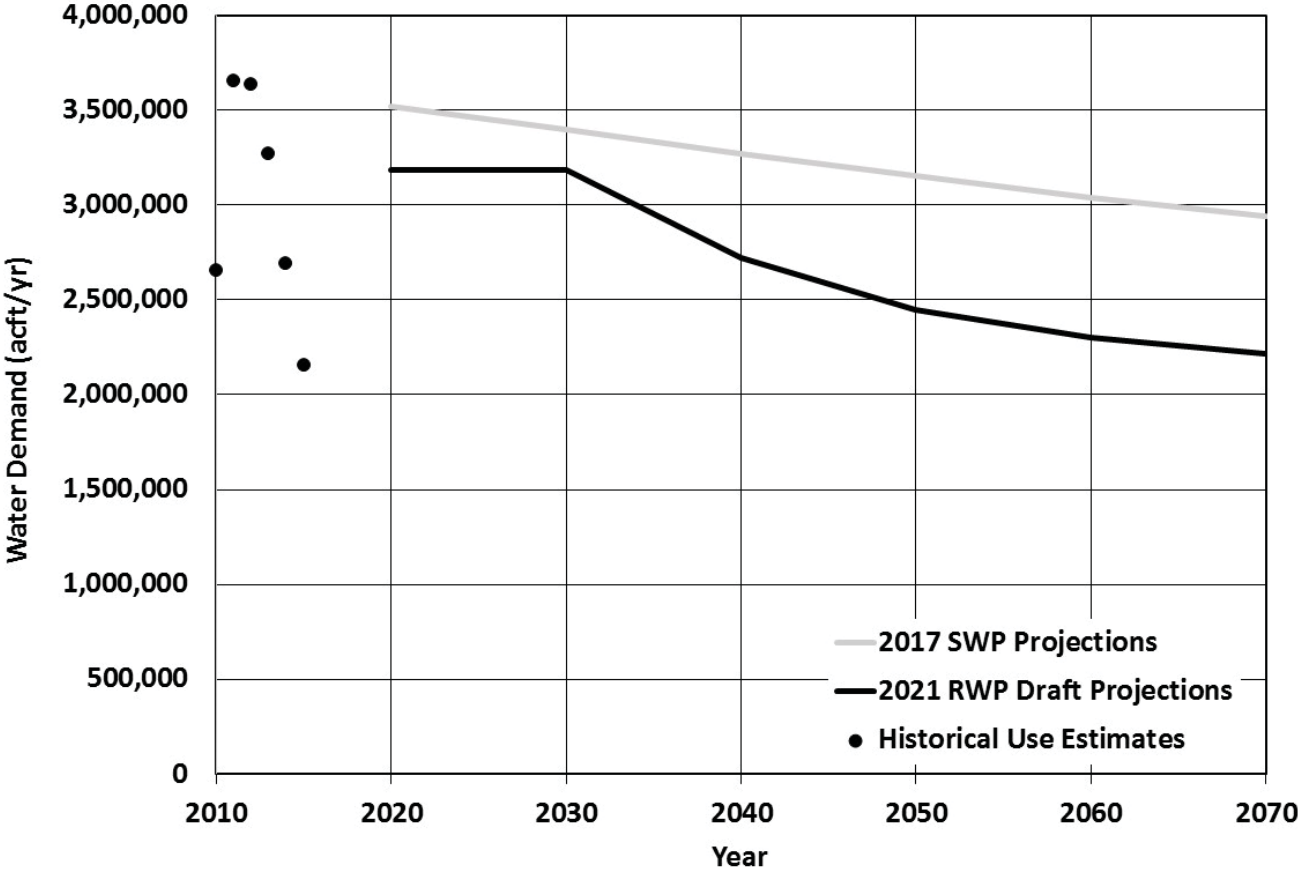
2016/17 Plans

- Base: average of 2005-2009 water use
- Annual estimate
 - Crop acreage (FSA)
 - Water use per acre
 - Review by GCDs and others
- Trend: same as in 2011/2012 Plans

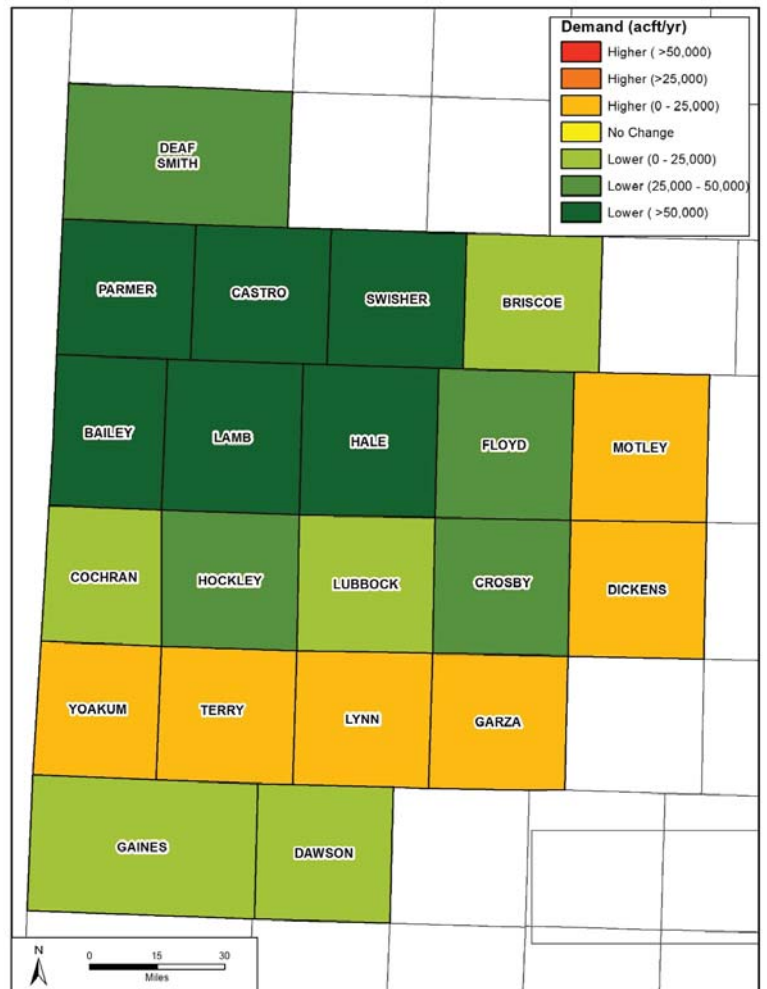
2021/22 Draft

- **Average of 2010-2014 water use as base**
- 2020-2070 projections held constant
- Constrained groundwater option: counties where GW demand > projected GW availability
→ projection decline in 2030 commensurate with the GW availability
- Include Reuse volumes

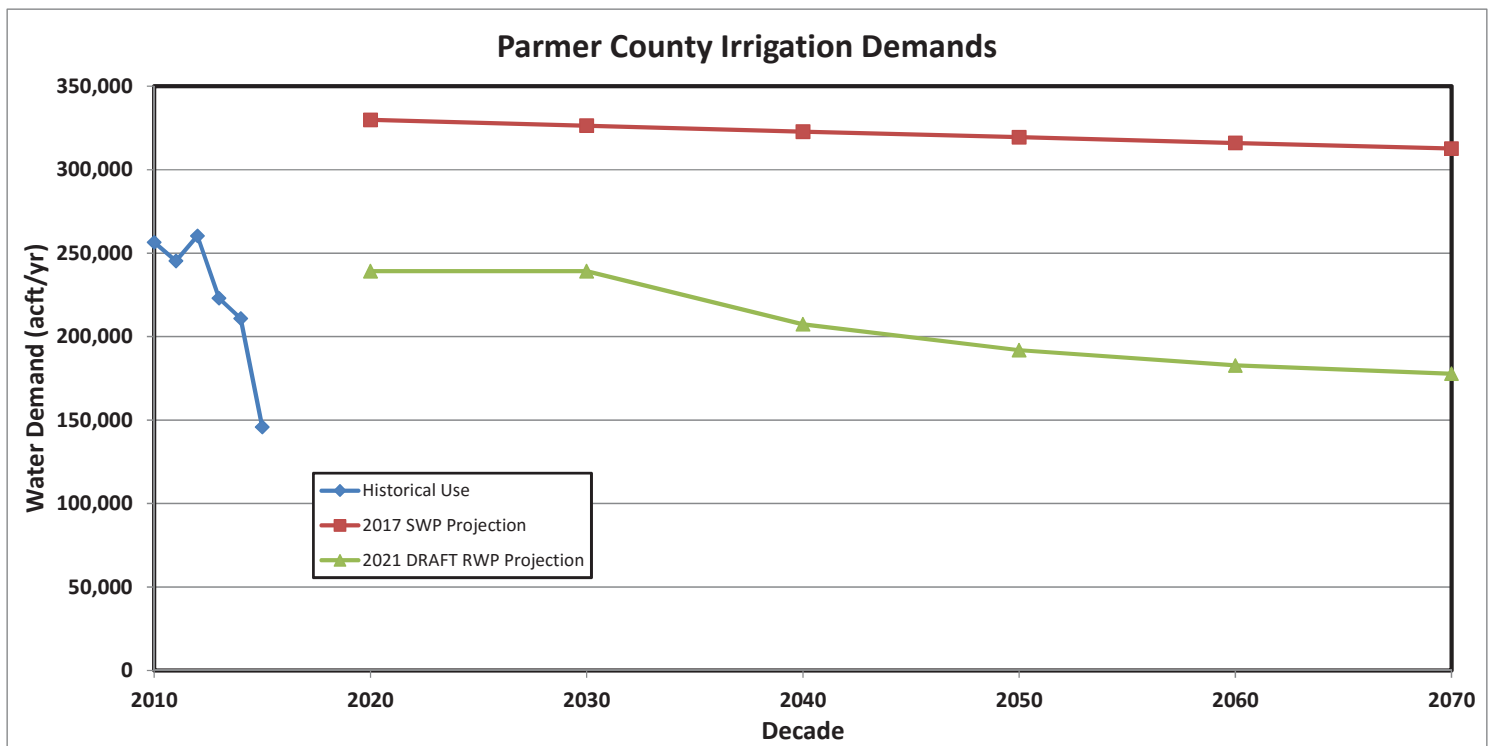
Region Total Irrigation Water Demands



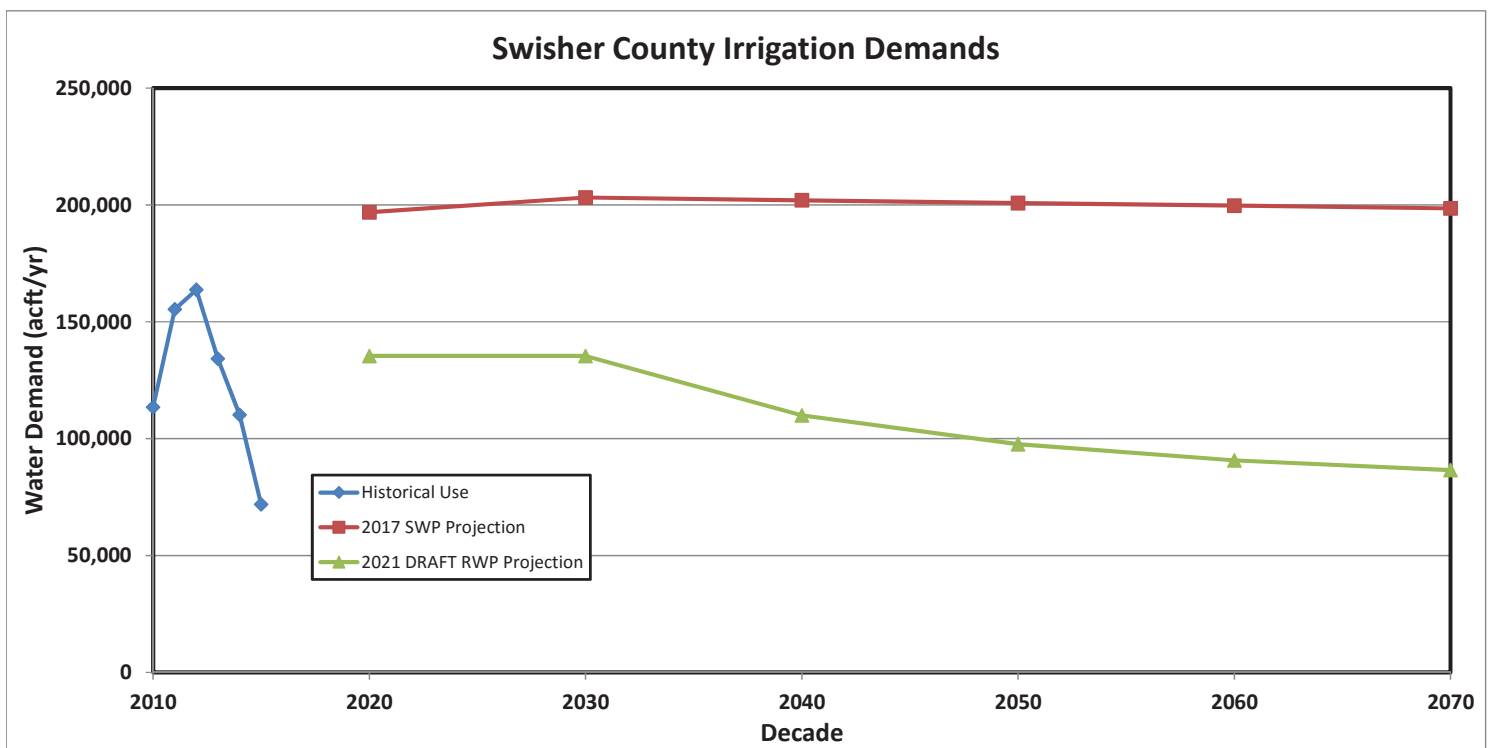
Changes in Irrigation Water Demands (Year 2070)



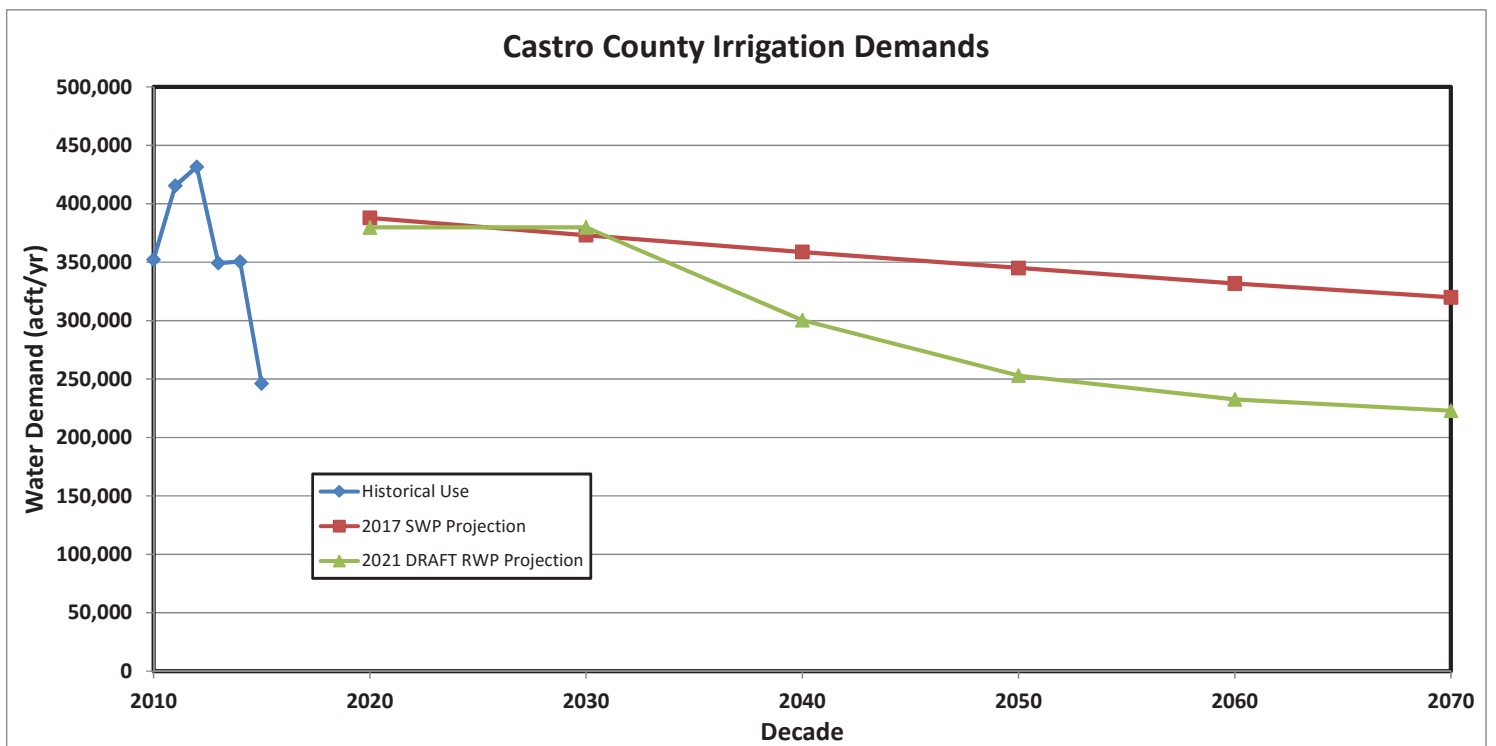
Counties with Significant Changes in Irrigation Demands



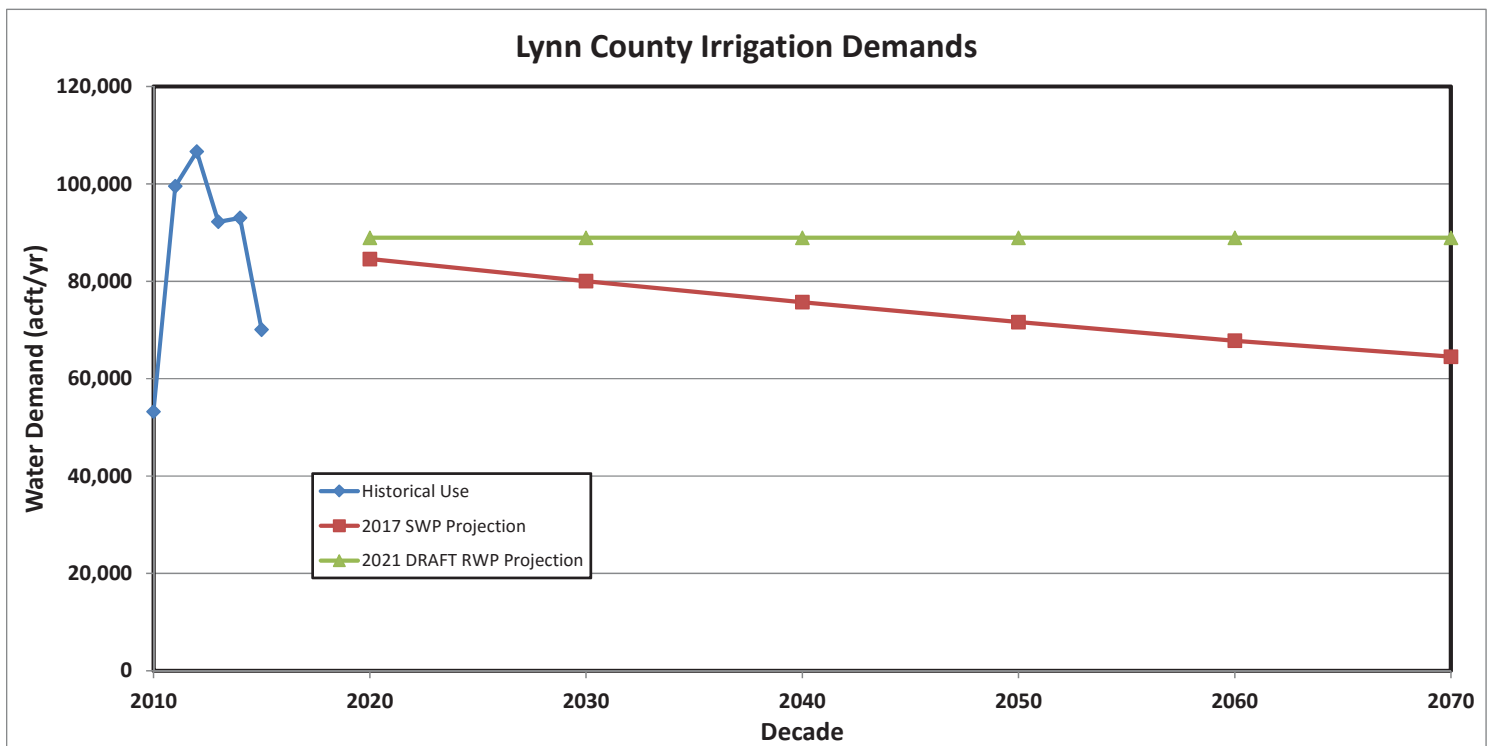
Counties with Significant Changes in Irrigation Demands



Counties with Significant Changes in Irrigation Demands



Counties with Significant Changes in Irrigation Demands



Path Forward / Questions?

- Recommend Investigating:
 - Irrigation decrease
 - Livestock increases in Parmer and Castro Counties
 - Steam-Electric changes in Lamb, Yoakum, and Lubbock Counties
 - Manufacturing increase in Hale County and decrease in Deaf Smith County
- Request Revisions?
 - Revision deadline - January 12, 2018
 - “Although regions and their consultants are strongly encouraged to communicate with the TWDB staff and submit change requests and supporting documentation earlier to allow time for evaluation.”

