

WSP Technical Consultant Presentation

PLATEAU REGION RWPG Meeting

August 2, 2023

2026 RWP Population Projection Data

- For the 2026 RWPs – the draft county population projections followed the trends projected by the Texas Demographic Center (TDC), including declines.
- In the RWPG Meeting held on June 22nd, 2023, the Region J members voted to oppose the draft population data projected by the TDC.
 - Stakeholder opposition to the projected population numbers was due to a belief in under-representation of true population and migration trends in Region J.
- A survey was sent out to all Water User Groups (WUGs) in Region J to provide input on population data for their respective entity

**2026 Draft Plateau Water Plan
Plateau Region Gallons Per Capita Daily (GPCD) Baseline**

	2026 Draft GPCD	2021 Regional Water Plan GPCD	Historical Maximum GPCD (2010-2020)
Bandera County			
Bandera	164	174	154
Bandera County FWSD 1	186	196	289
County-Other, Bandera	94	102	26
Edwards County			
Rocksprings	211	220	239
County-Other, Edwards	99	108	23
Kerr County			
Kerrville	178	186	217
Kerrville South Water	111	117	118
County-Other, Kerr	76	84	150
Kinney County			
Brackettville	278	287	442
Fort Clark MUD	439	447	478
County-Other, Kinney	121	127	127
Real County			
Camp Wood	172	180	391
Leahey	122	131	611
County-Other, Real	96	103	39
Val Verde County			
Del Rio Utilities Commission	250	259	327
Laughlin Air Force Base	516	526	533
County-Other, Val Verde	117	126	10

WSP Recommended GPCD – WUG Recommended GPCD

Municipal Water Demand Projections:

GPCD_{base}

- Any changes from the survey data to GPCD values were considered when selecting the GPCD_{base} value
- If the GPCD values that were sent back to us in the survey were larger than the Historical maximum or the 2021 RWP GPCDs then we used the survey GPCD as the new GPCD_{base} value.

Evidence – based Process

Criteria for Adjustments

TWDB's First Amended General Guidelines

- "Exhibit C"

Section 2.2

- Specific Criteria
- Data Requirements

Texas Administrative Code

- Ch. 357 – Regional Water Planning
- Ch. 358 – State Water Planning Guidelines

A moment on criteria and data requirements

Evidence

Criteria for:

- Region
- County
- Population
(permanent residential)
- Demand

Regional Level

Criteria

- A possible Census undercount took place in a county located within the region and action is currently being pursued to request a U.S. Census Bureau correction.
- The most recent population growth rate (2015-2020) for the whole region is significantly different than the draft regional projections.

Data

- Documentation of an action requesting the U.S. Census Bureau correct an undercount of population with a county located in the region.
- Historical regional-total population estimates from the Texas Demographic Center or the U.S. Census Bureau.
- Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to the net total regional-level population projection.

Population

Criteria

2. The 2010 or 2020 permanent population-served estimate by a municipal WUG is significantly different than the 2010 or 2020 baseline population estimate used in the draft projections.
3. The population growth rate for a municipal WUG over the most recent years (2015-2020) is substantially different than the growth rate between 2010 and 2020 in the draft projections.
4. Identification of growth limitations or potential build-out conditions for a WUG that would result in an expected maximum population that is different than the draft projections.
6. Plans for new residential development in the near future that has not been counted in the draft projections.

Data

2. Updates or corrections to a WUG's group quarter population or the location of institutional facilities.
4. Documentation from an official of a city or utility that describes the conditions expected to limit population growth and estimates the maximum expected population for a utility and the potential timeframe for buildout.
6. Documentation demonstrating near-term growth, expansion, or new construction such as platting of new subdivisions, annexation agreements, building permits or impact fee reports.
7. Documentation of potential future growth, such as utility master plans, capital improvement plans, land use and zoning plans, maps of vacant lands with number of dwelling units per acre or number of households and average household size.
8. Other data and evidence that the RWPG believes provides a reasonable basis for justifying changes to an individual WUG-level population projection.

Demand

- GPCD
 - Regions may make a request to use a WUG's GPCD value from a different base dry-year within the most recent five years (2015-2019) as the basis for the demand projections of that WUG.
 - Must provide sufficient evidence that alternative is
 - more representative of demands expected under dry-year conditions or
 - Draft GPCD fails to adequately reflect water efficiency and conservation savings that have already been implemented
- Evidence from a more recent year
- Evidence of errors
- Trends indicating increases in recent years, and evidence that trends will continue to rise in short-term future due to commercial development.
- Evidence relating to water efficiency and conservation savings.
- Documentation

Engagement efforts

Engagement

- Surveys
- Calls

Data compilation and Analysis

- Water Use Surveys
- Service areas
 - (CCN/WUG boundary/Census place)
- Trends (Cumulative Annual Growth)

Documentation

- WUS pop. estimates.
- Information on recent development
- Service area

Evidence-Based Construction of Revision Request

- Construction of Revision Request
- Components based on specific criteria
 - Migration scenario
 - Census Undercount
 - WUG-Specific
 - Directly from WUG
 - Analysis of WUG WUS
 - GPCD
 - 10-year max
 - Dry-year
 - Trends
 - Plumbing Code / Water Efficiency Savings
 - Removal from baseline
 - Keep for projections
- Overlays
- Revised Water Demand (It's a water plan)

Regional Water Planning Survey Responses

Survey Results

- **WSP surveyed all 11 WUGs in Region J with help from the Upper Guadalupe River Authority.**
- **9 WUGs (82%) provided feedback to WSP's & UGRA's survey push**
 - **Population changes requested by 1 WUG, 6 WUGs were ok with population projections**
 - **Updated GPDC data provided by 1 WUG**

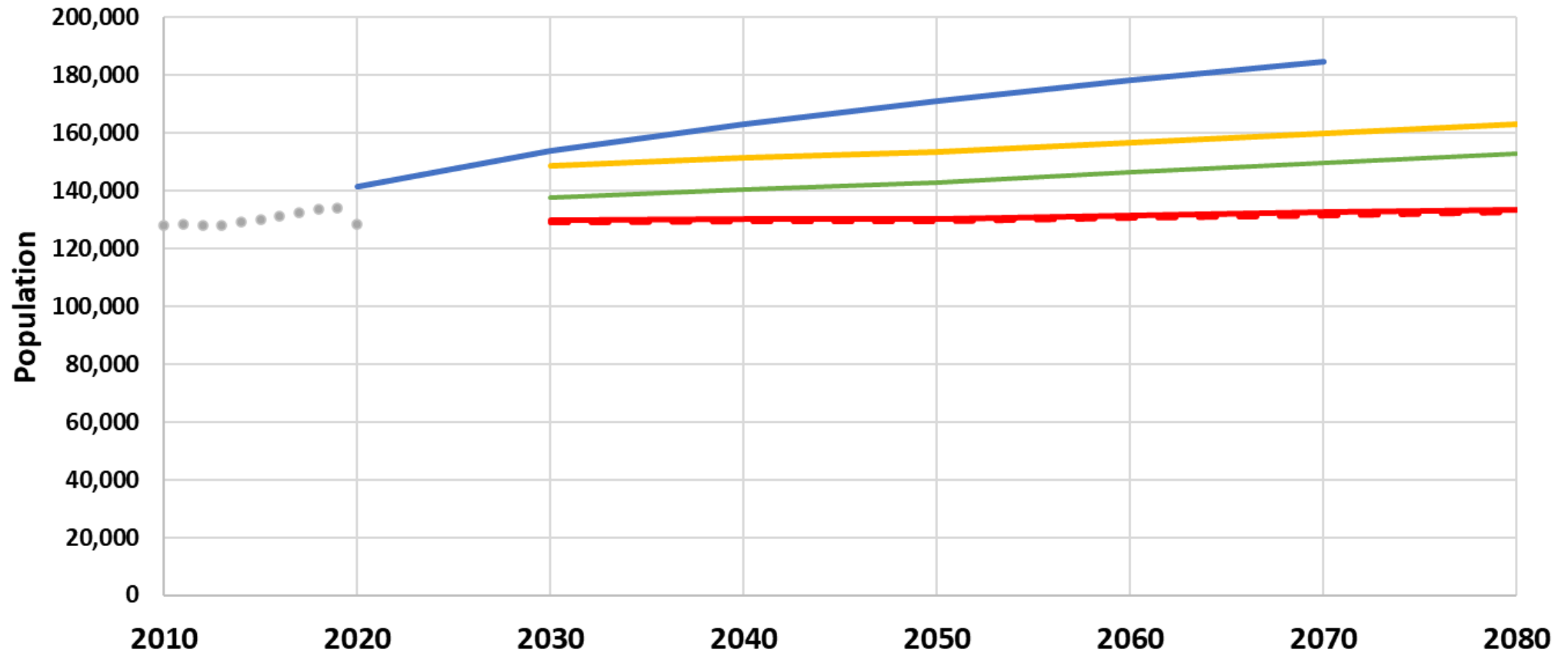
2020 Census Undercount

- **The PEW Research Center has done a study on the 2020 Decennial census**
 - **5% of Hispanic population under-represented nationwide**
 - **3.3% of Black population under-represented nationwide**
 - **Undercount of 2% of total population in Texas**
 - **Includes the 5% and 3.3% undercounts in Hispanic and black population, respectively**

<https://www.pewresearch.org/short-reads/2022/06/08/key-facts-about-the-quality-of-the-2020-census/>

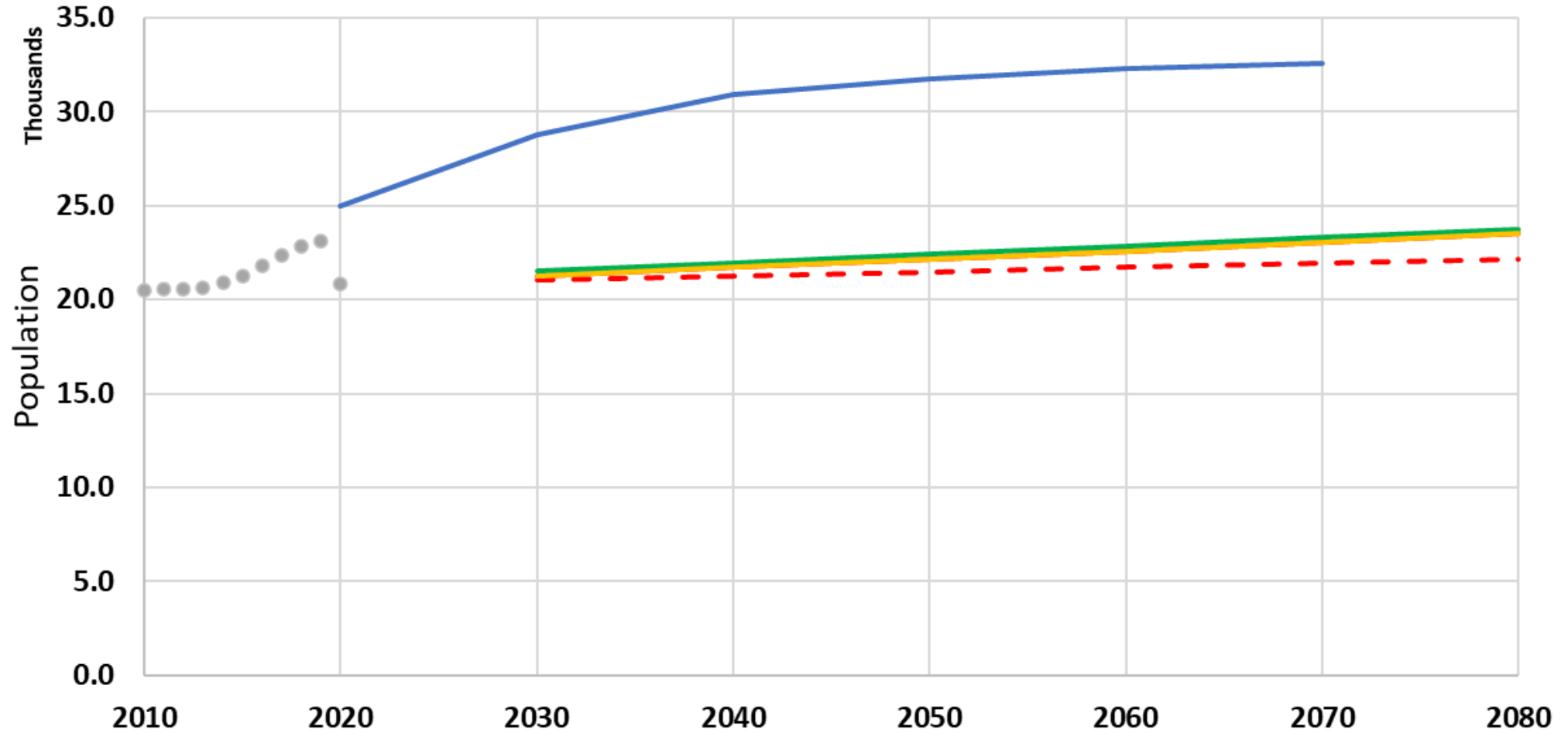
**Review of
Updated Draft
Pop & Municipal
Water Demand
Projections**

Total Regional Population



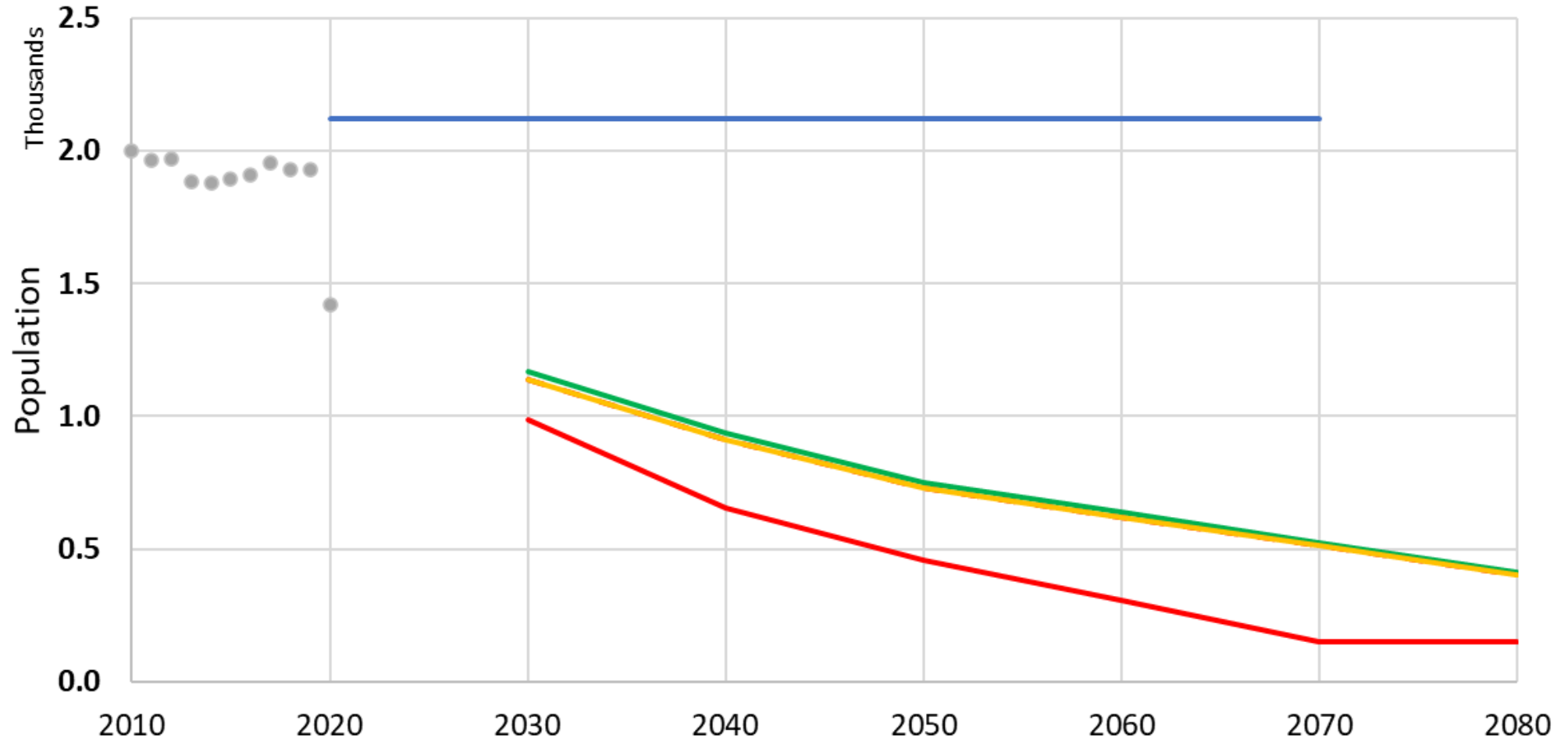
- 2026 Historical Annual Estimate
- 2021 Population Projections
- 2026 Draft Population Projections (1.0 migration scenario)
- - 2026 Draft Population Projections (0.5 migration scenario)
- 2026 Population Projections by County (Survey)
- 0.5 migration scenario population + 5% undercount of hispanic population + 3.3% undercount of black population

BANDERA



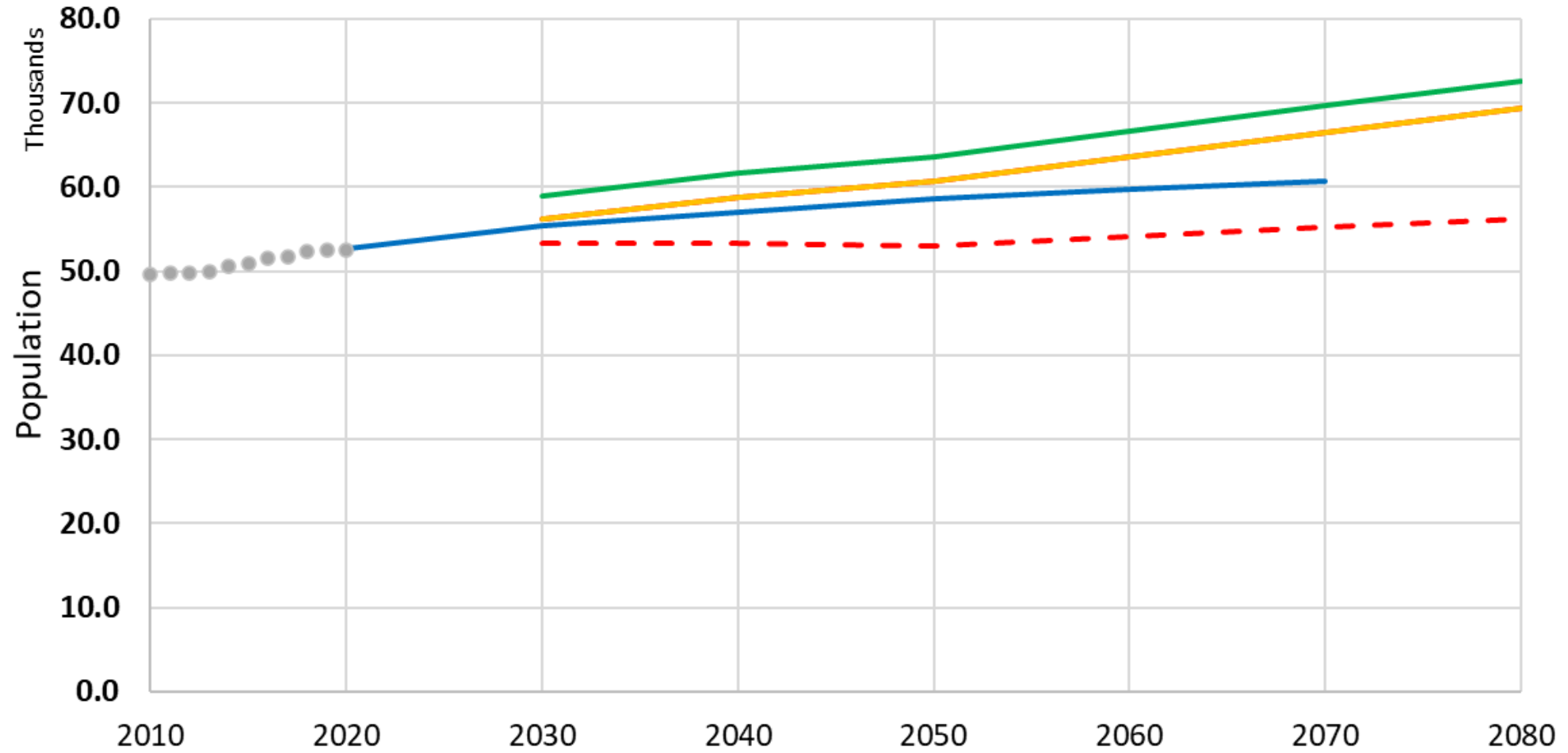
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EDWARDS



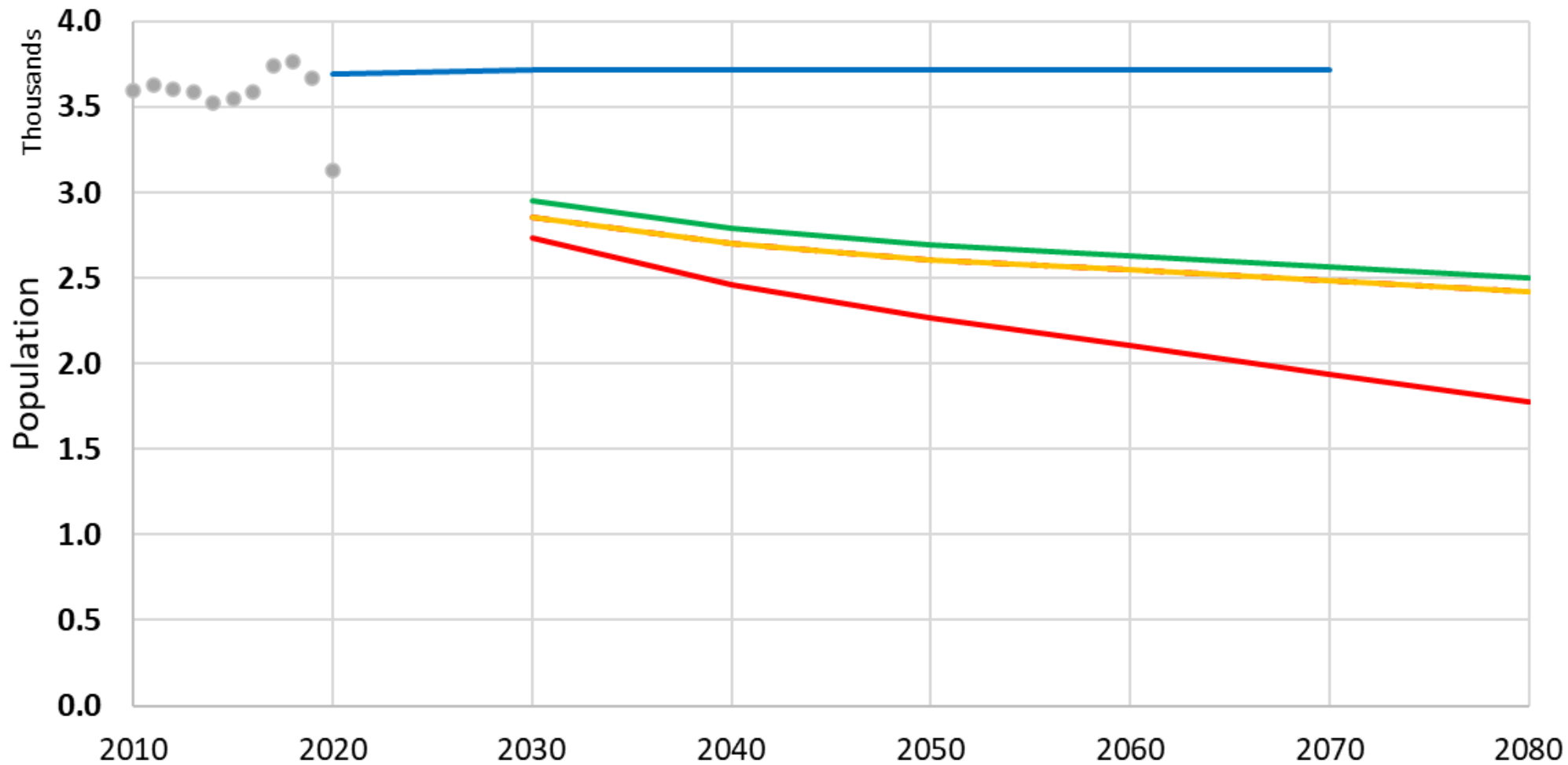
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KERR



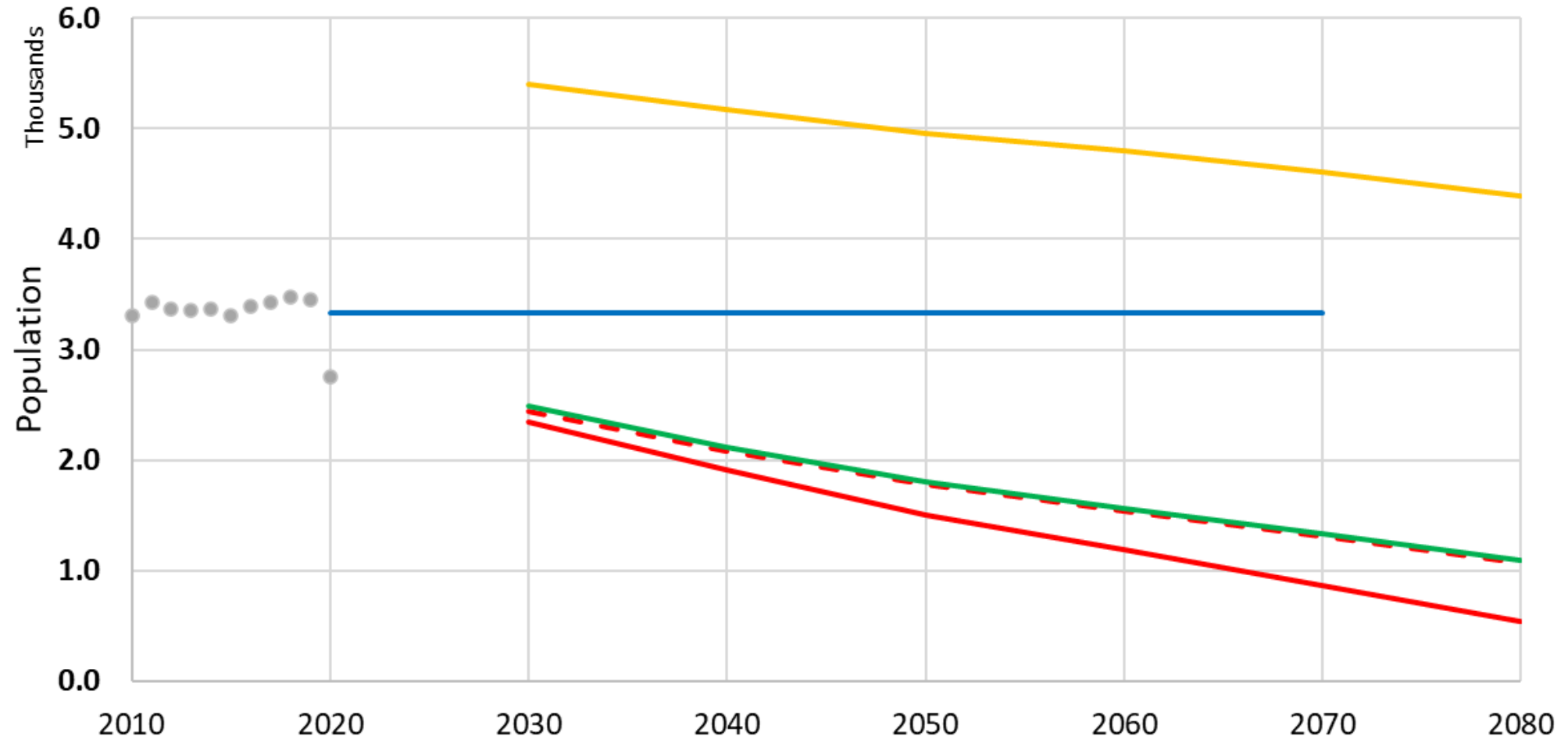
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KINNEY



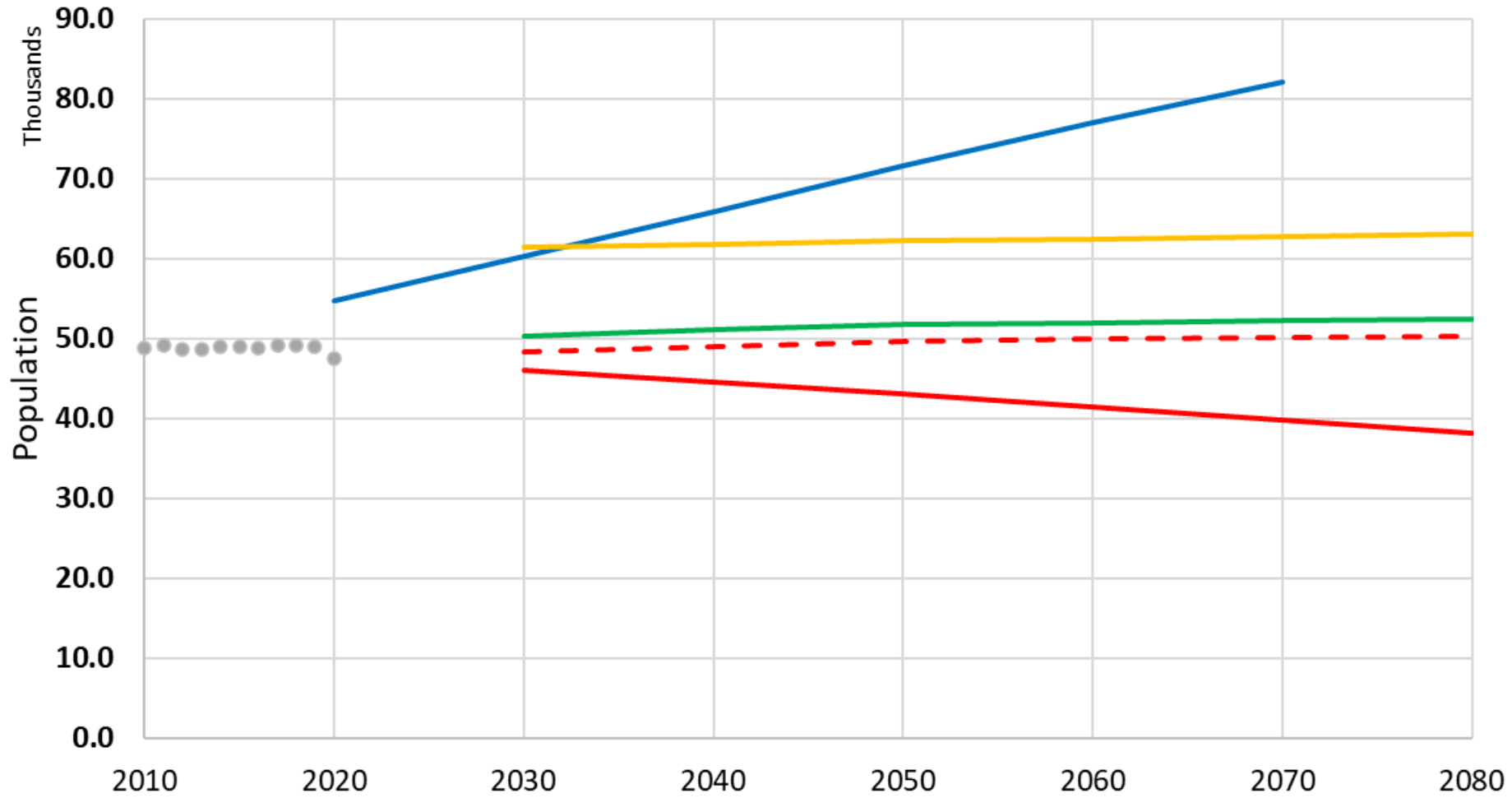
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REAL



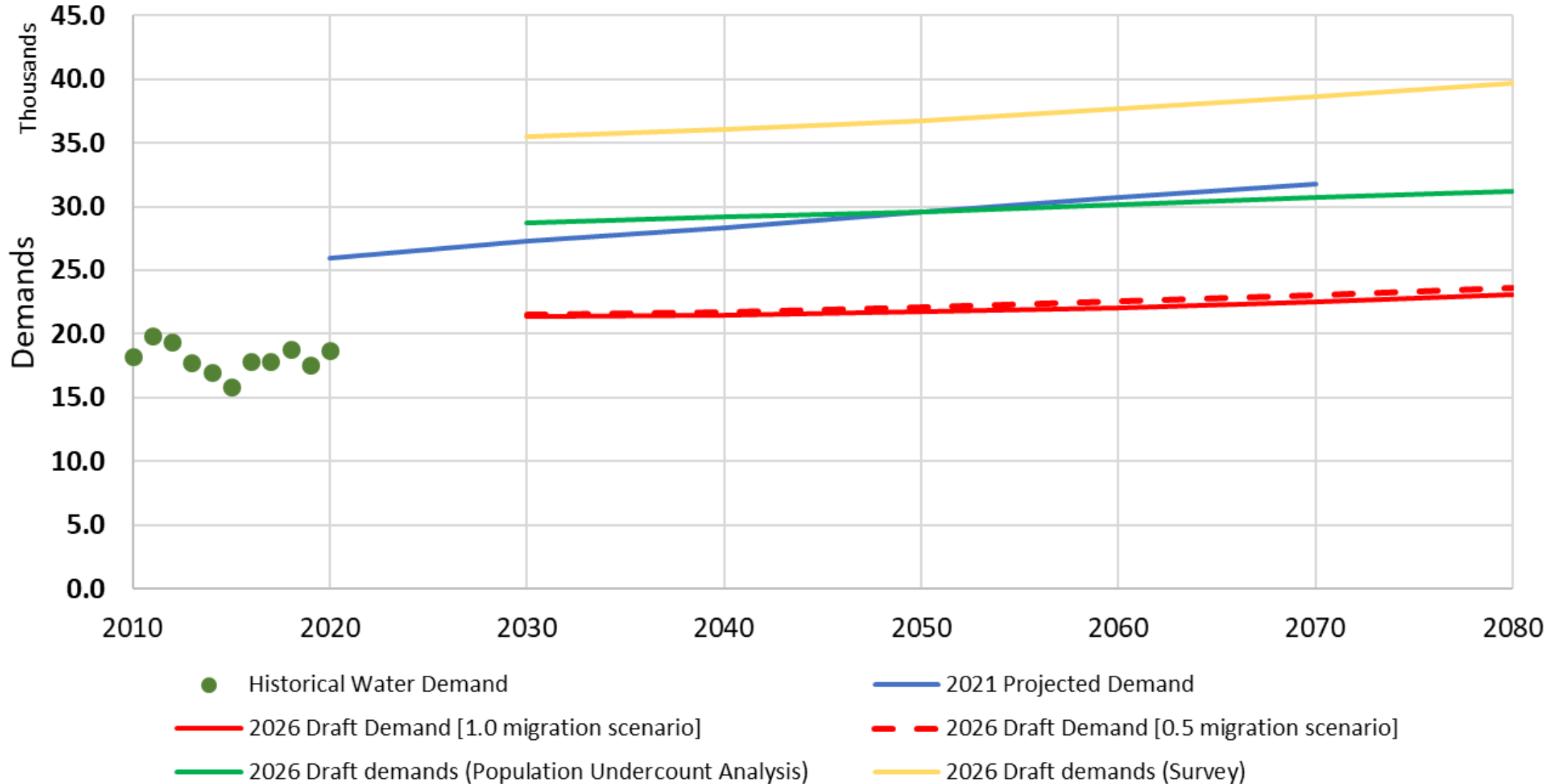
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VAL VERDE

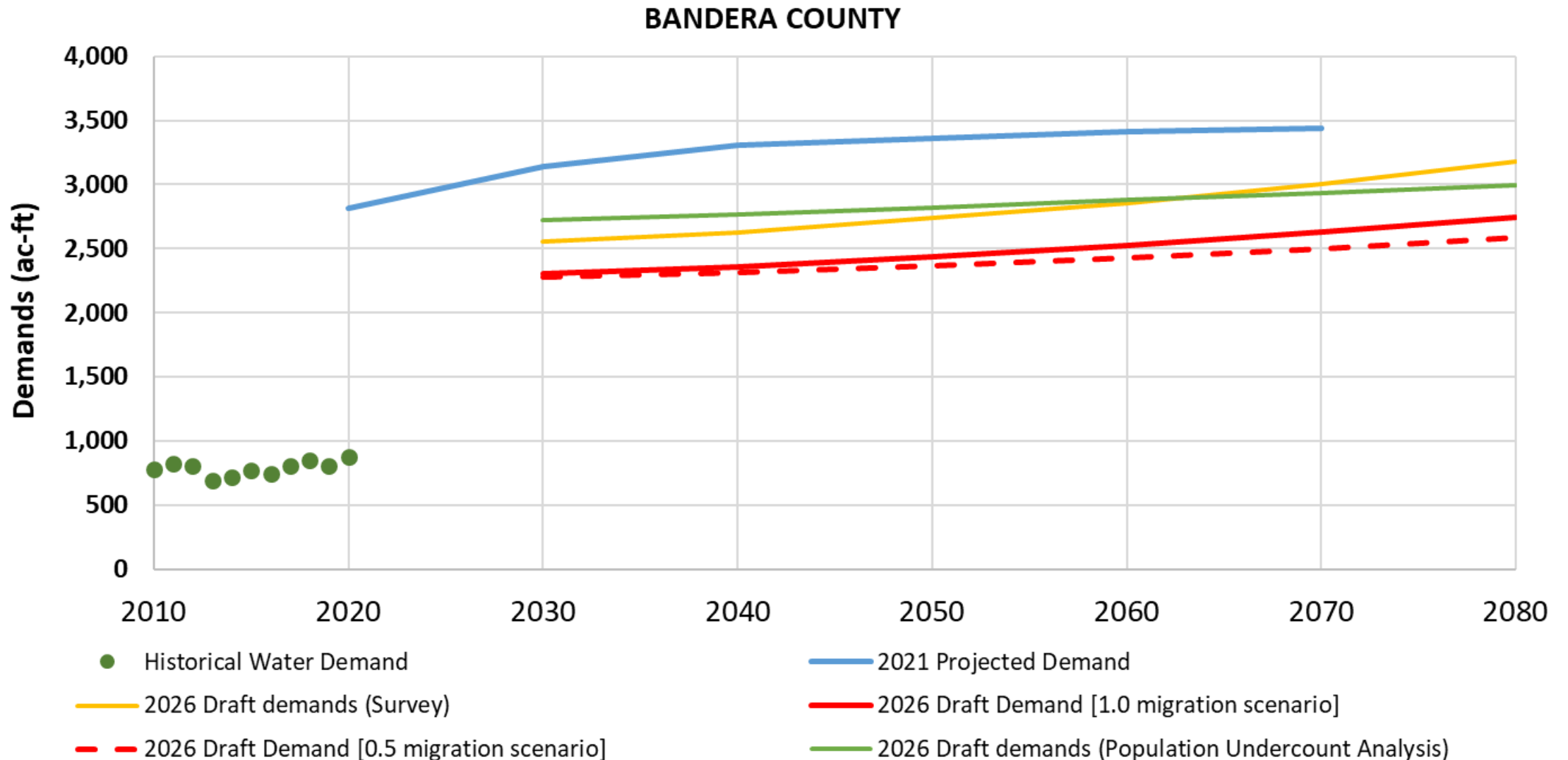


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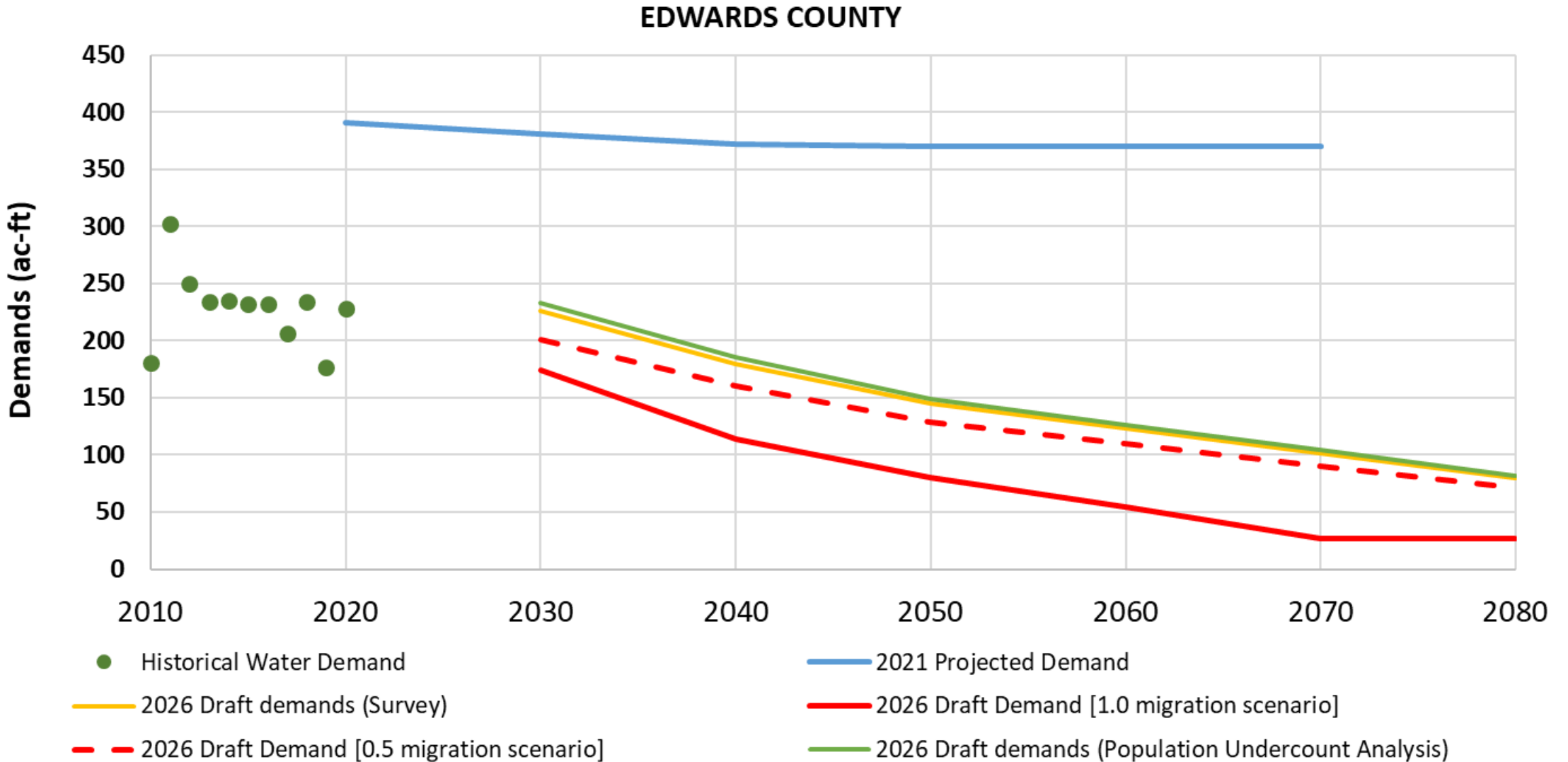
Total Regional Water Demand (acre-feet)



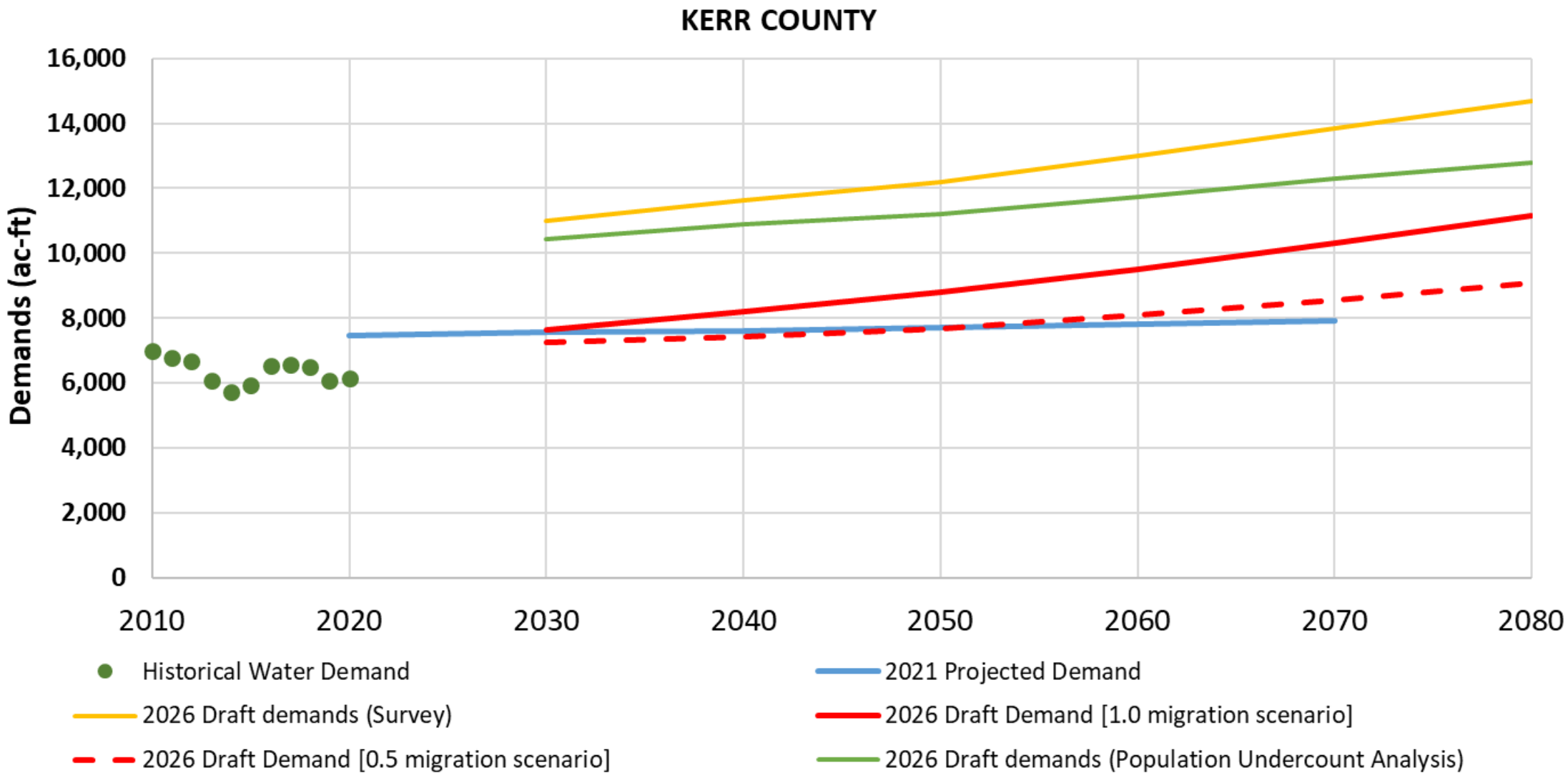
Bandera – Draft Water Demand Projections



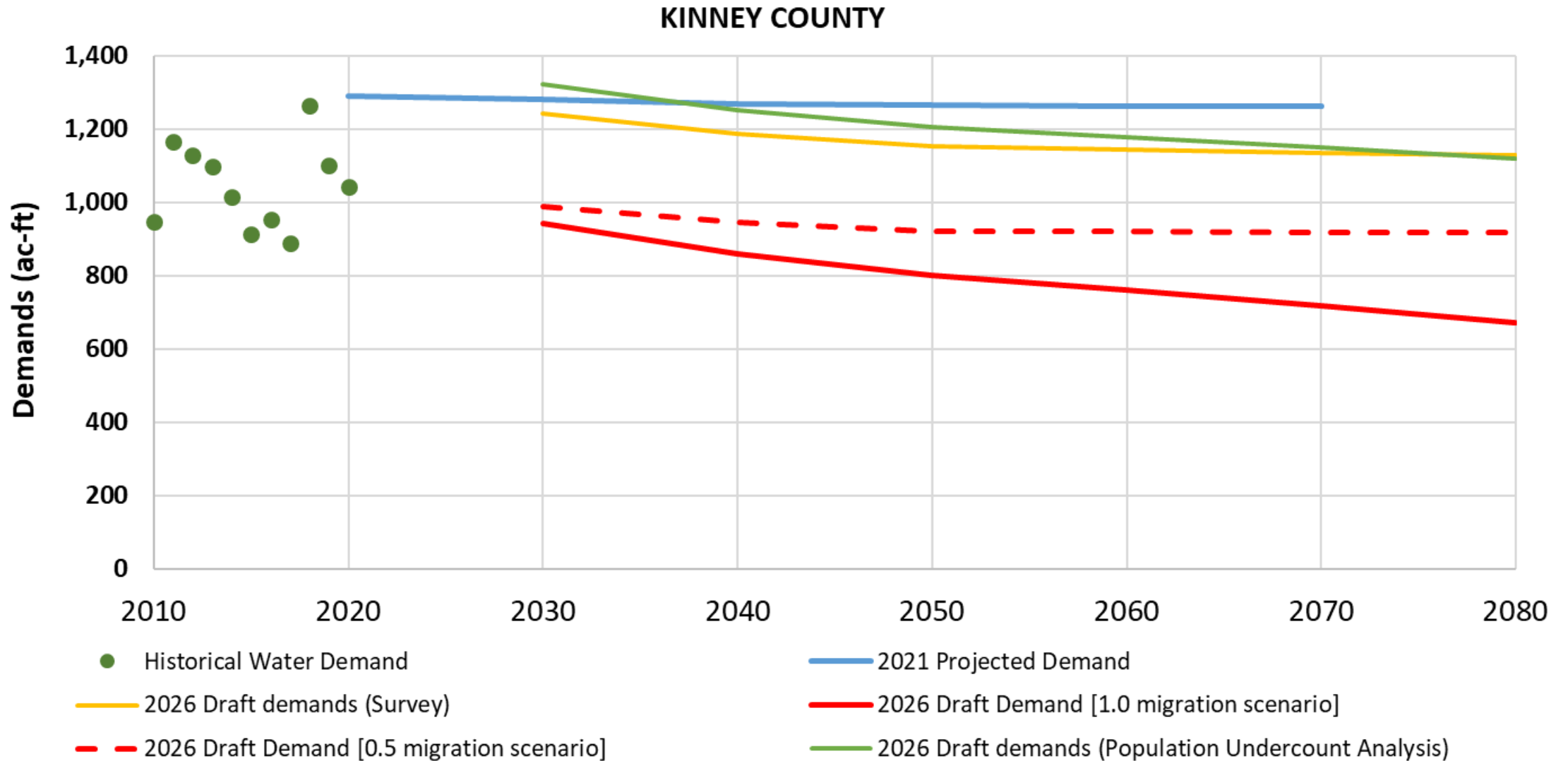
Edwards – Draft Water Demand Projections



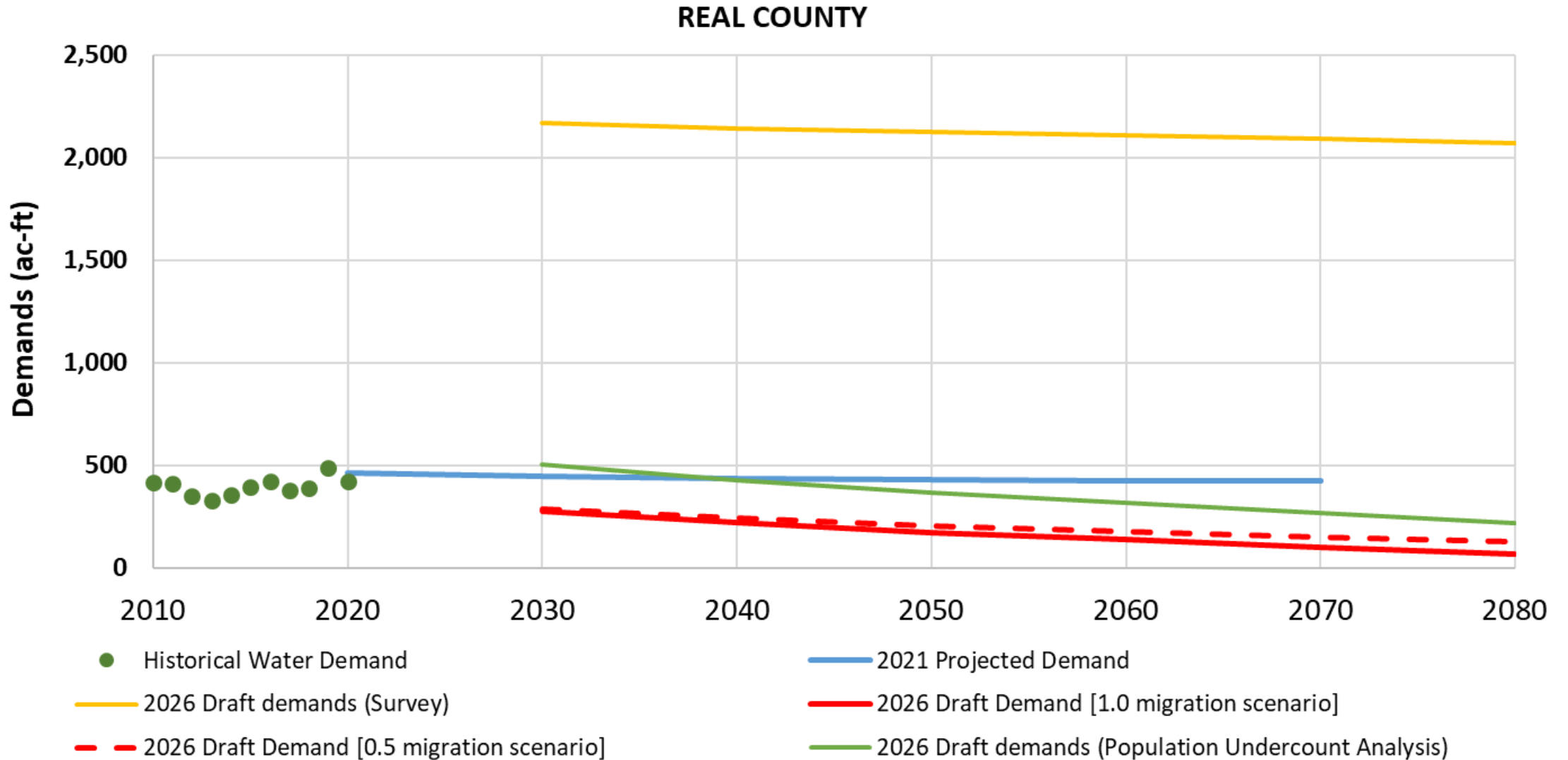
Kerr – Draft Water Demand Projections



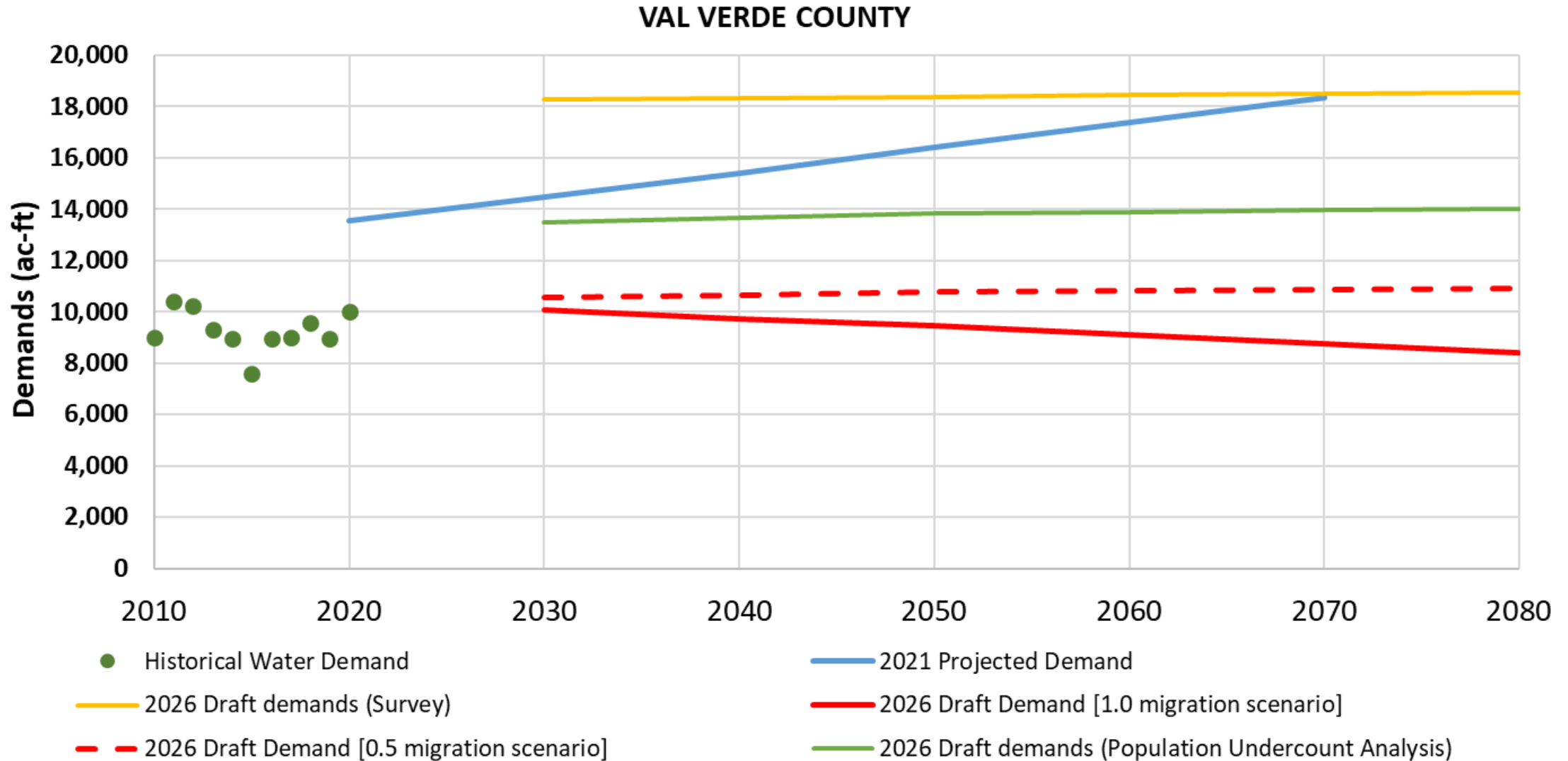
Kinney – Draft Water Demand Projections



Real – Draft Water Demand Projections



Val Verde – Draft Water Demand Projections



Ongoing Work

- **WSP is seeking the Water planning Groups approval to the recommended draft population and municipal water demand projections**
- **WSP will submit on behalf of the Plateau Water Planning Group the population and water demand projections revision request letter.**
- **WSP will begin to assess if there are any Infeasible Water Management Strategies and present that data in the next meeting.**
- **WSP will begin looking at Water Supply data for the Task 3 scope of work.**

Next Meeting

SEPTEMBER 2023 ?