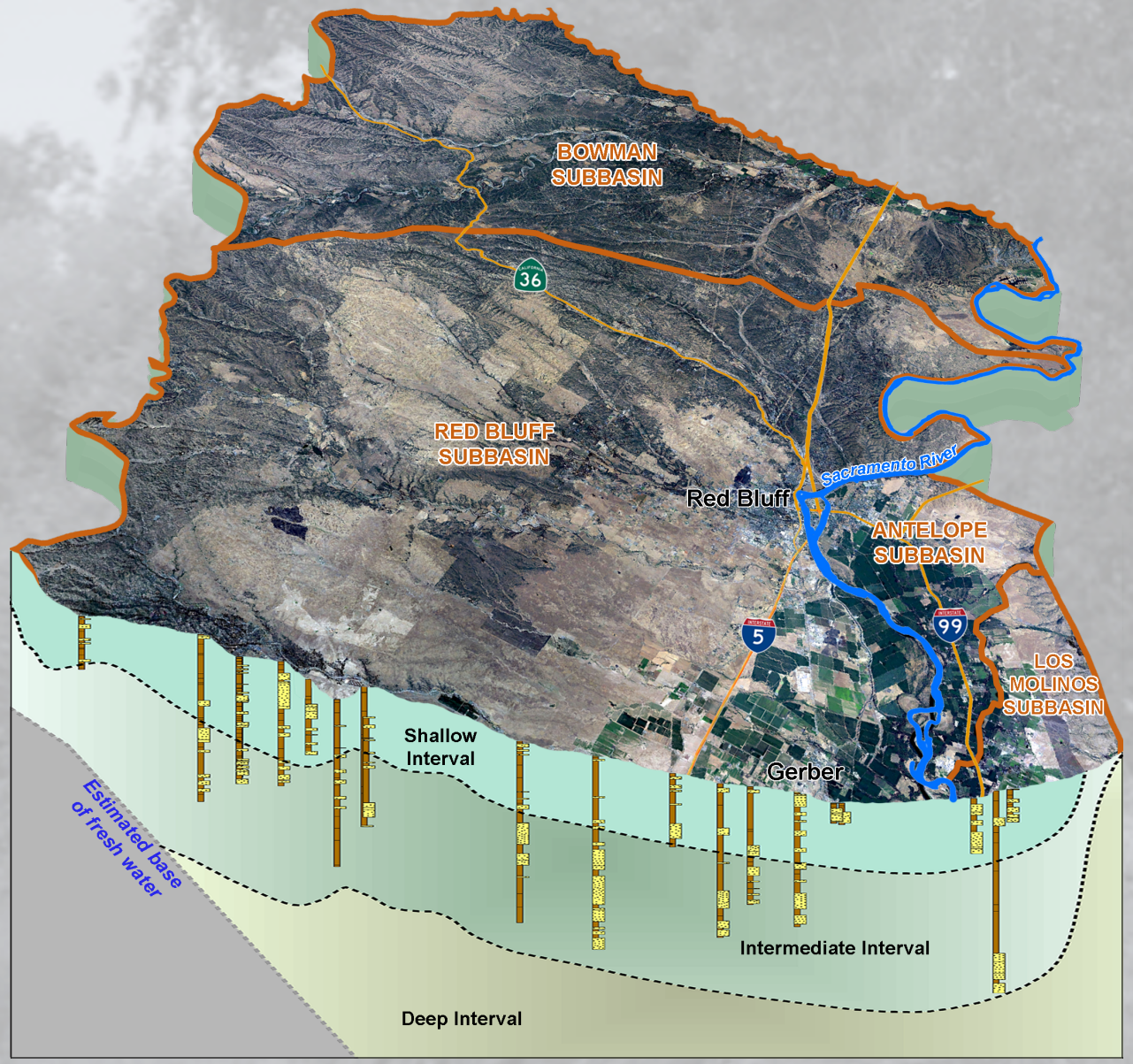
TEHAMA COUNTY
Flood Control and Water Conservation District

Public Webinar

Progress Update On Development of the GSP for the Antelope Subbasin

August 23, 2021



Welcome!

The meeting will begin shortly.

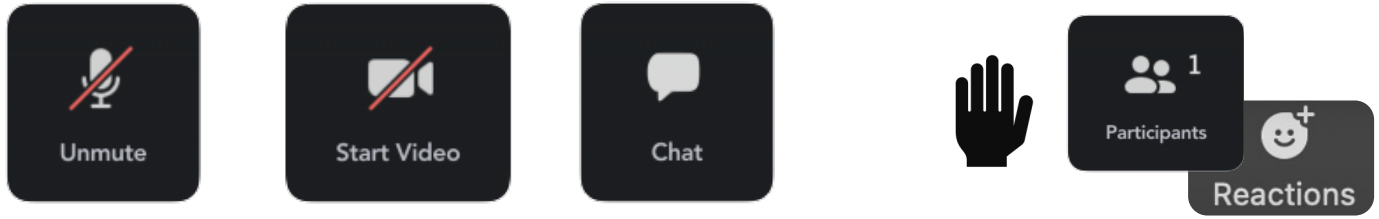
Technical Difficulties?

- Use the Zoom Chat,
- or email Stephanie Horii SHorii@cbi.org,
- or text: 408.768.9394

Instructions for Getting Started:

- ❑ **Use only one audio source** – either computer or phone.
- ❑ **Wear headsets / earbuds** to cut down on ambient noise.
- ❑ **Please MUTE yourself** at all times, except when speaking.
- ❑ **Orient yourself** to Zoom meeting controls:

Unmute/Mute | **Start Video** | **Zoom Chat** | **Raise Hand (via Participants or Reactions)**



How you can participate today:

- **Verbal:** Get into the queue w/ Raise Hand function
- **Written:** Submit questions in Chat Box

COMMON TERMS

SGMA *("Sigma")*: Sustainable Groundwater Management Act • **GSA:** Groundwater Sustainability Agency • **GSP:** Groundwater Sustainability Plan

Zoom Orientation



Introduction to Zoom Webinar Interface and Today's Meeting Process

Stephanie Horii, Consensus Building Institute (CBI)

Meet the Project Team

Hosts/Co-Hosts: – Project Team

- **Convener: Tehama County GSA**
  - Nichole Bethurem
- **Technical Consultant:** Luhdorff & Scalmanini, Consulting Engineers (LSCE)
  - Eddy Teasdale
- **Facilitation/Tech Support:** Consensus Building Institute (CBI)
  - Stephanie Horii

CBI

Note: The meeting will be recorded and posted to the website: TehamaCountyWater.org

Verbal Questions

Raise Hand

If participating through Zoom:

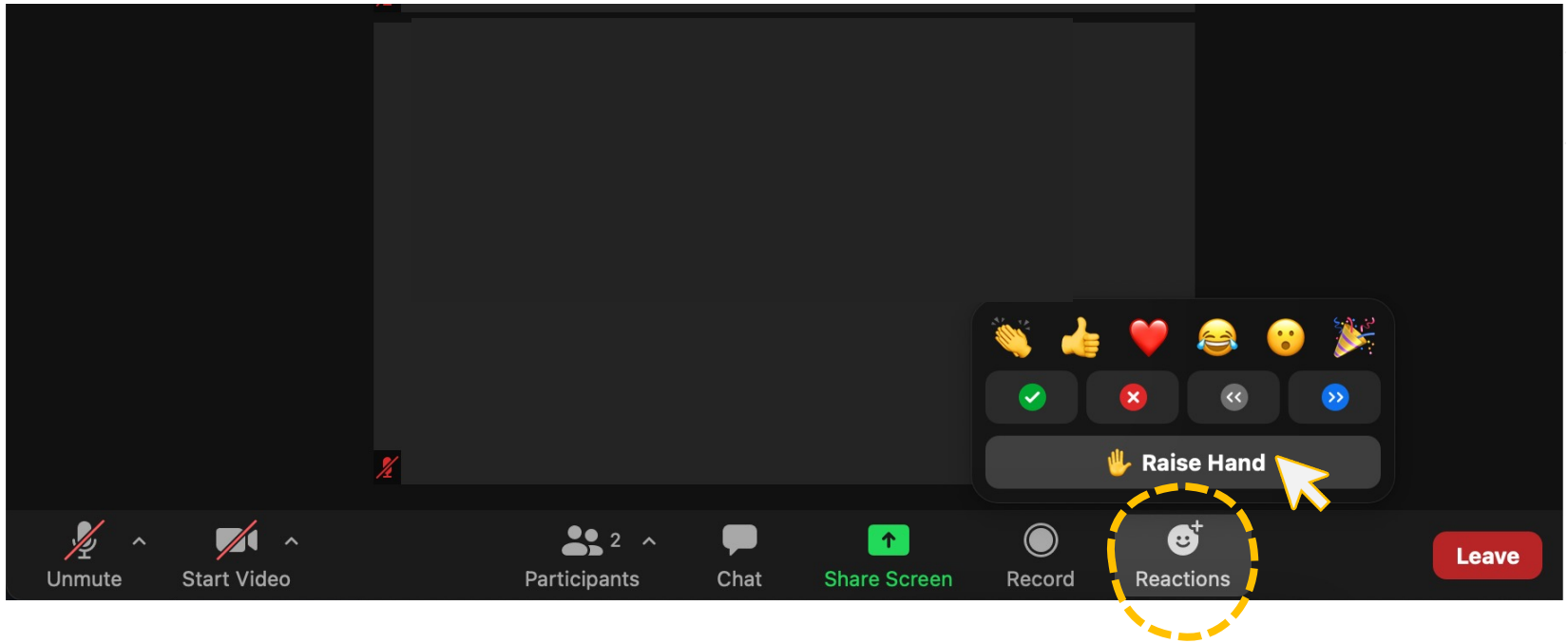
"Raise Hand" to speak

If dialing in by phone only:

Press *9 to "Raise Hand"

We will let you know when it is your turn to speak and can unmute yourself

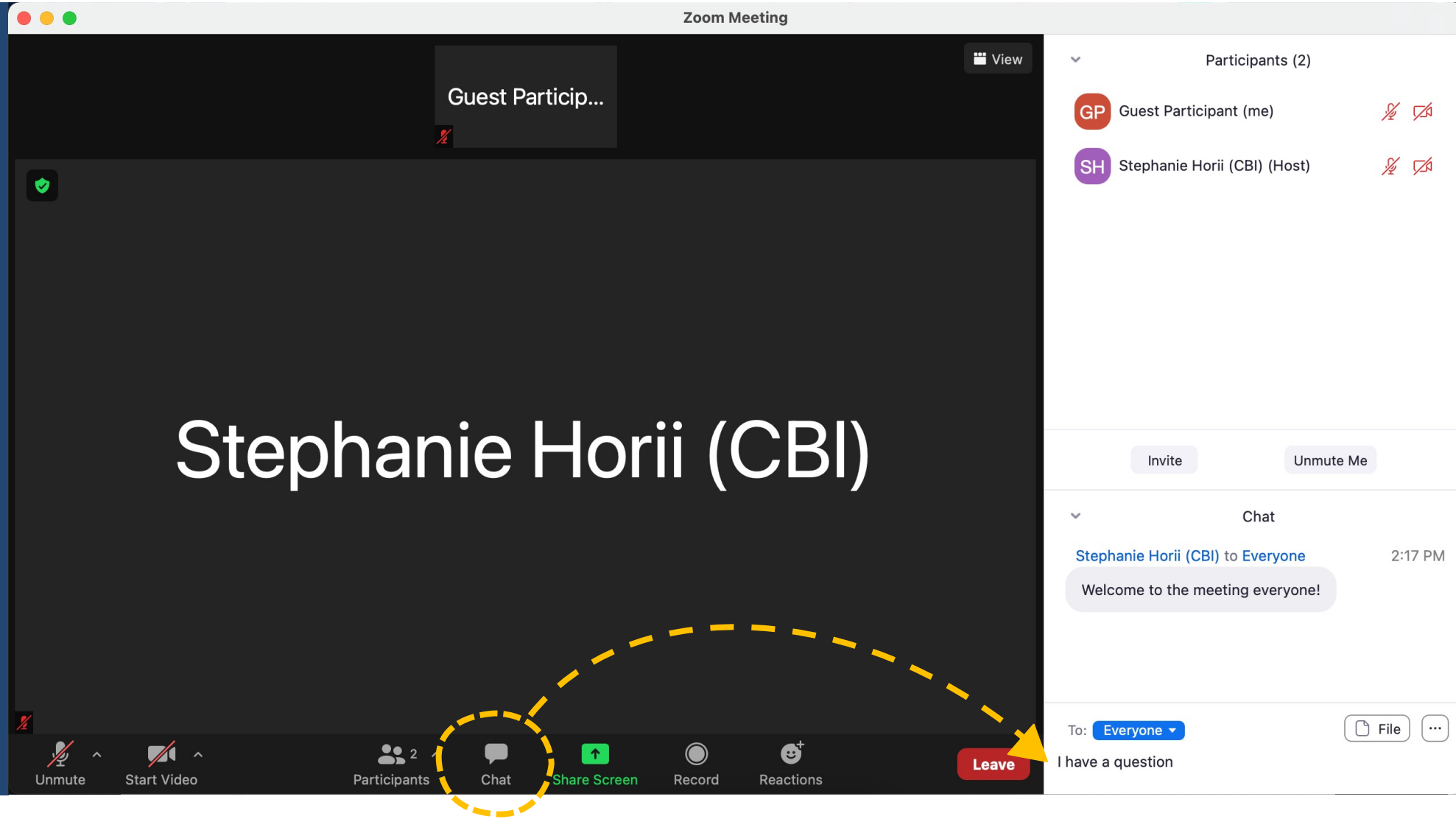
*(Phone-Only Folks – Press *6 to unmute/mute)*



(older versions of Zoom may require using the Participants button to find the Raise Hand icon)

Written Questions

Zoom Chat



Calling in by phone only? email SHorii@cbi.org or text: 408.768.9394

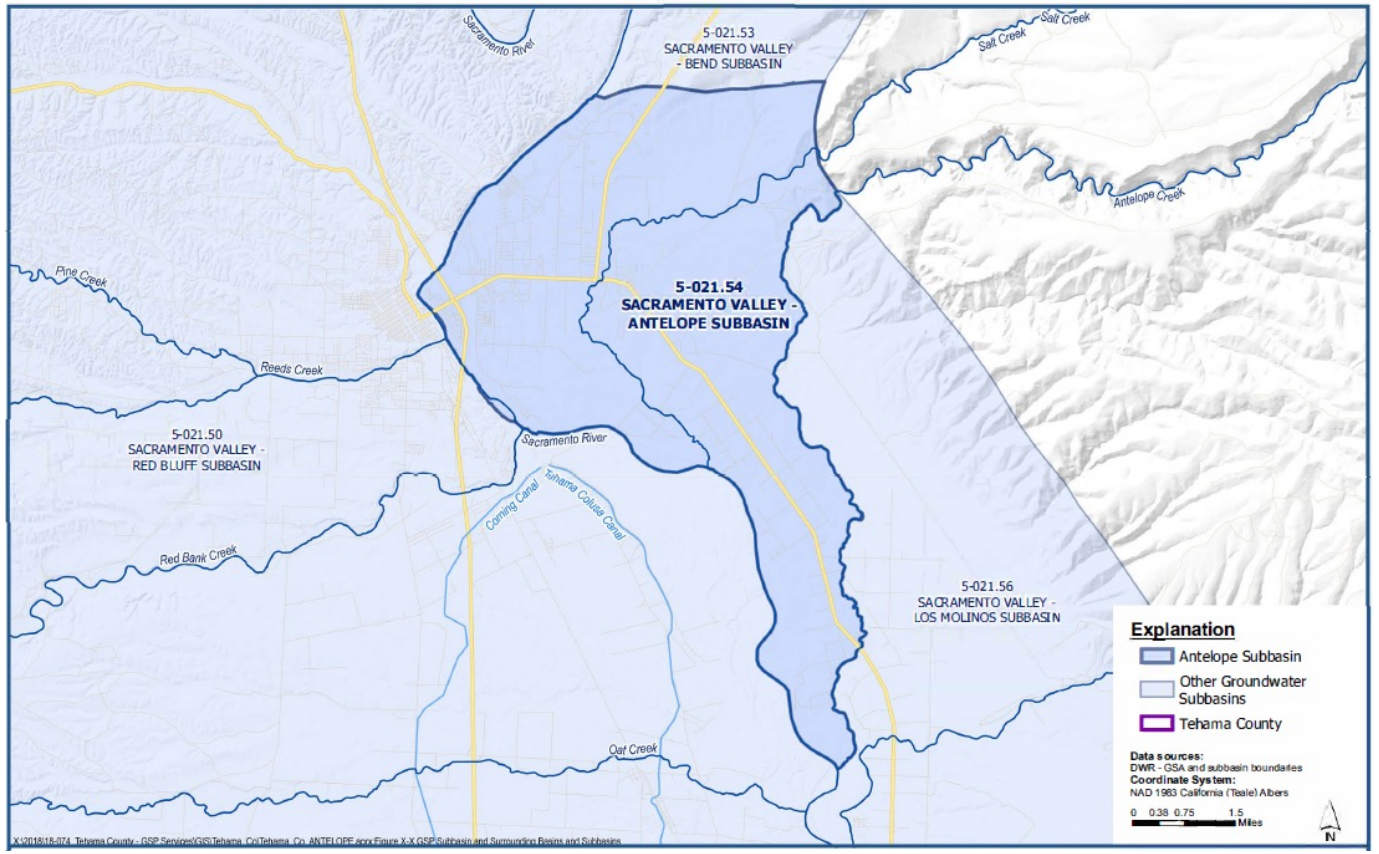
Participating in the Workshop

- “Raise Hand” for Verbal Questions
- Zoom ”Chat” to submit written Questions
- “Start Video” for more interactive experience
- Please keep yourself on MUTE at all times
- Focus on Topic
- Honor Time
- Tech-Adaptive Mind Set

Presentation Outline

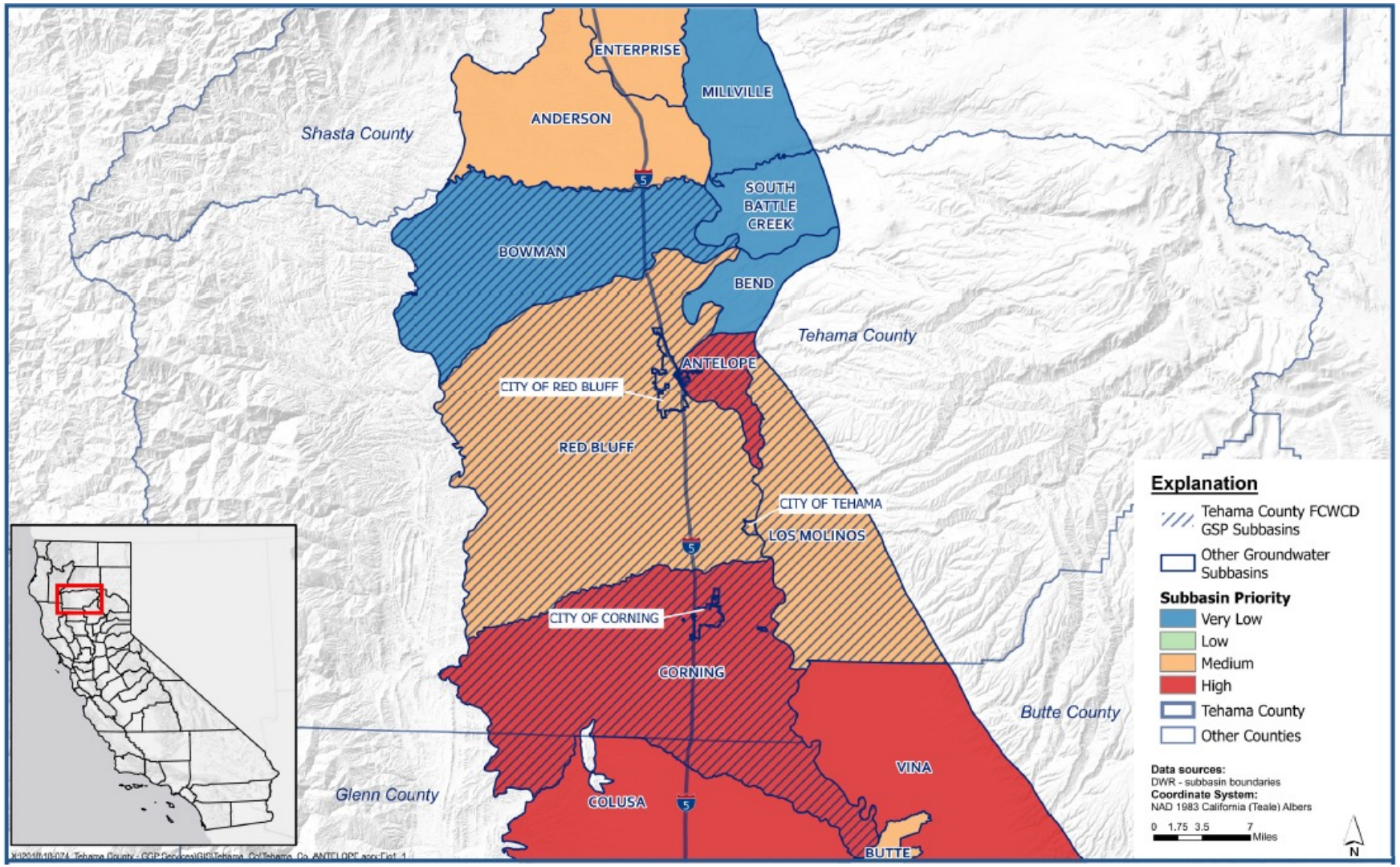
TEHAMA COUNTY
Flood Control and Water Conservation District

- Progress on GSP Chapters
- Water Budgets
- Sustainable Management Criteria (SMC)
- Projects and Management Actions (PMA)
- GSP Implementation Costs
- GSP Schedule and Implementation



Antelope Subbasin

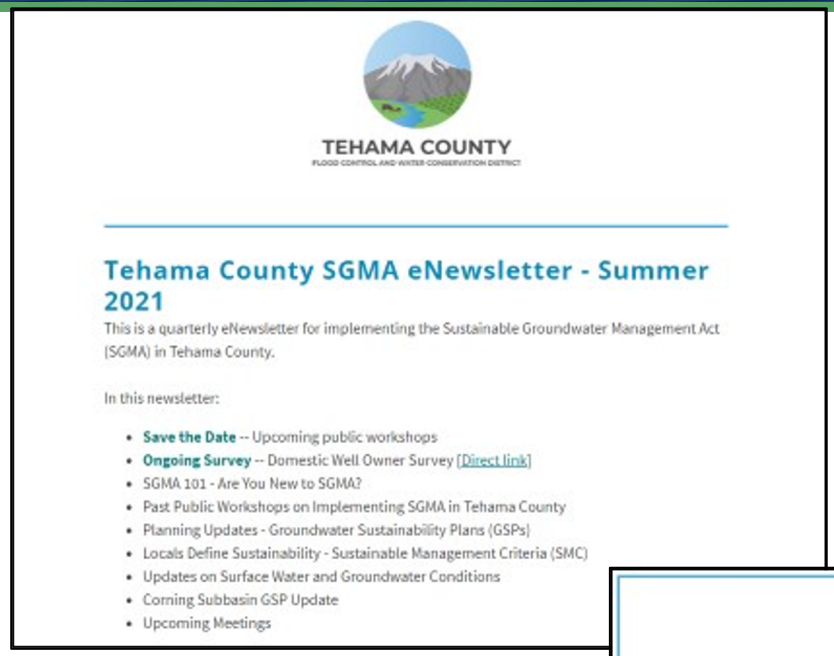
TEHAMA COUNTY
Flood Control and Water Conservation District



Stakeholder Coordination General Update

TEHAMA COUNTY
Flood Control and Water Conservation District

- October and December 2020
- December 2020 Newsletter
- July 2021 eNewsletter
  - GSP Updates
  - Groundwater/Surface Water Conditions
  - Groundwater Modeling
- Outreach Meetings
  - August 17-25
  - Topics Covered
    - Basin Settings
    - Water Budgets
    - SMC Introduction
    - Modeling
    - Project & Management Actions



TEHAMA COUNTY
FLOOD CONTROL AND WATER CONSERVATION DISTRICT

Tehama County SGMA eNewsletter - Summer 2021

This is a quarterly eNewsletter for implementing the Sustainable Groundwater Management Act (SGMA) in Tehama County.

In this newsletter:

- **Save the Date** -- Upcoming public workshops
- **Ongoing Survey** -- Domestic Well Owner Survey [Direct link]
- SGMA 101 - Are You New to SGMA?
- Past Public Workshops on Implementing SGMA in Tehama County
- Planning Updates - Groundwater Sustainability Plans (GSPs)
- Locals Define Sustainability - Sustainable Management Criteria (SMC)
- Updates on Surface Water and Groundwater Conditions
- Corning Subbasin GSP Update
- Upcoming Meetings



Save the Date | Online Public Meetings

August 17, 19, 23, and 25

The next round of public workshops will occur in August, each starting at 6:00pm. There will be four online, interactive webinars, each one focused on a specific subbasin (see schedule below)

Topics will focus on:
- Sustainable Management Criteria (SMCs)
- Proposed Projects and Management Actions (PMAs)
- Public review schedule for Draft GSPs

How do I attend the online public meeting(s)?
Follow the link(s) below to register for the subbasin-specific meetings:

- August 17 - Bowman Subbasin - https://bit.ly/SGMA-Aug17-Bowman
- August 19 - Red Bluff Subbasin - https://bit.ly/SGMA-Aug19-RedBluff
- August 23 - Antelope Subbasin - https://bit.ly/SGMA-Aug23-Antelope
- August 25 - Los Molinos Subbasin - https://bit.ly/SGMA-Aug25-LosMolinos

Note: when you register, you will receive a confirmation email that will include instructions on how to join the webinar, including dial-in-by-phone information.
Webinars will be recorded and posted to the District's website for future viewing.

Visit the website to learn more: TehamaCountyWater.org

Tehama County Subbasins Groundwater Sustainability Plans

TEHAMA COUNTY
Flood Control and Water Conservation District

Describe the Basin Conditions
Plan Area, Subbasin Setting & Water Supplies

What water sources are used in the basin and what are the basin conditions related to those uses?

Define Basin Sustainability
Sustainable Management Criteria & Monitoring

What is sustainable groundwater management?

Develop Projects/Management Actions & Implementation Plans

How can we ensure groundwater sustainability?

Develop & Adopt GSPs
Submit GSP to DWR: January 31, 2022

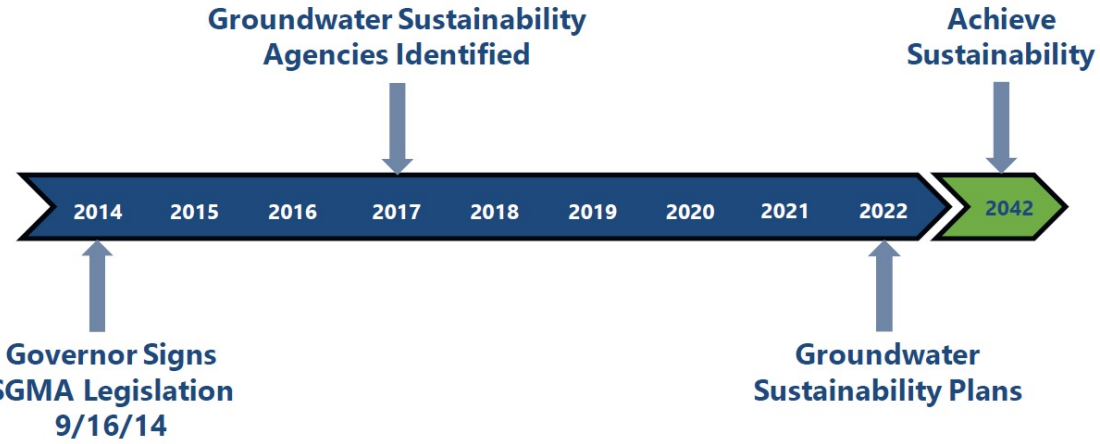
Will this plan meet our sustainability goals?

GSP Chapter Development

TEHAMA COUNTY
Flood Control and Water Conservation District

- Chapter 1 – Introduction (Complete)
- Chapter 2 – (Complete)
  - Chapter 2A – Plan Area
  - Chapter 2B – Basin Setting
  - Chapter 2C – Current & Historical Groundwater Conditions (in progress)
- Chapter 3 – SMCs (Complete)
- Chapter 4 – Projects and Management Actions (In Progress)
- Chapter 5 – GSP Implementation (In Progress)

TIMELINE FOR SUSTAINABLE MANAGEMENT

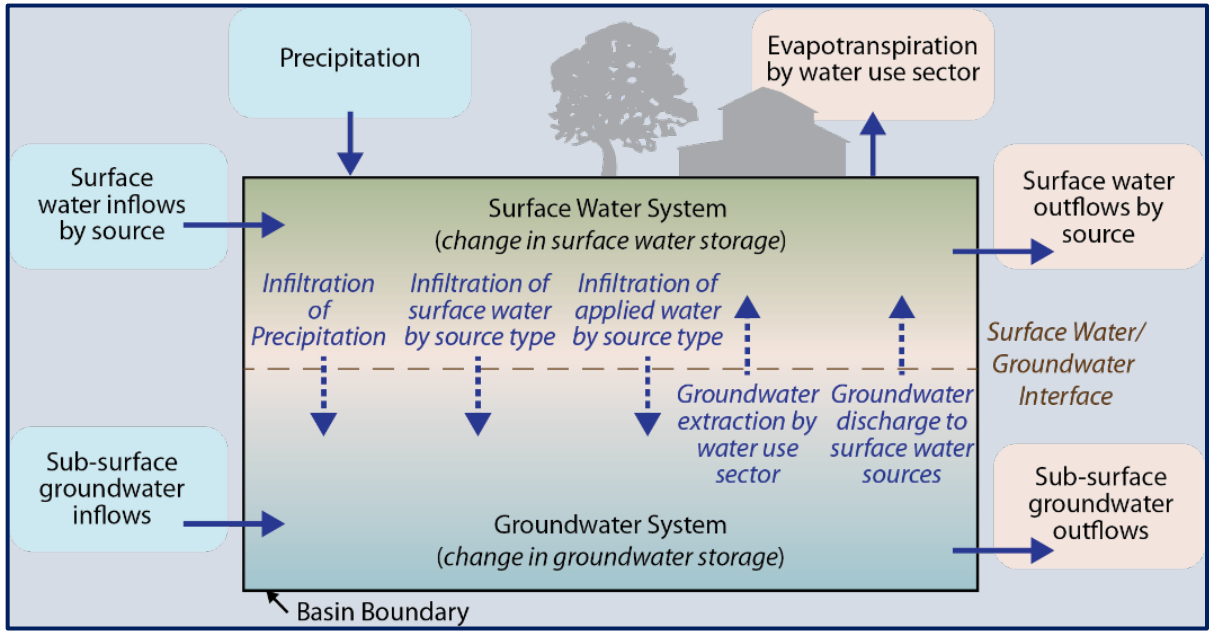


GSP Chapter 2C Water Budget

TEHAMA COUNTY
Flood Control and Water Conservation District

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Water Budget Accounting Structure (Source: DWR, 2016a)

GSP Chapter 2C Water Budget

TEHAMA COUNTY
Flood Control and Water Conservation District

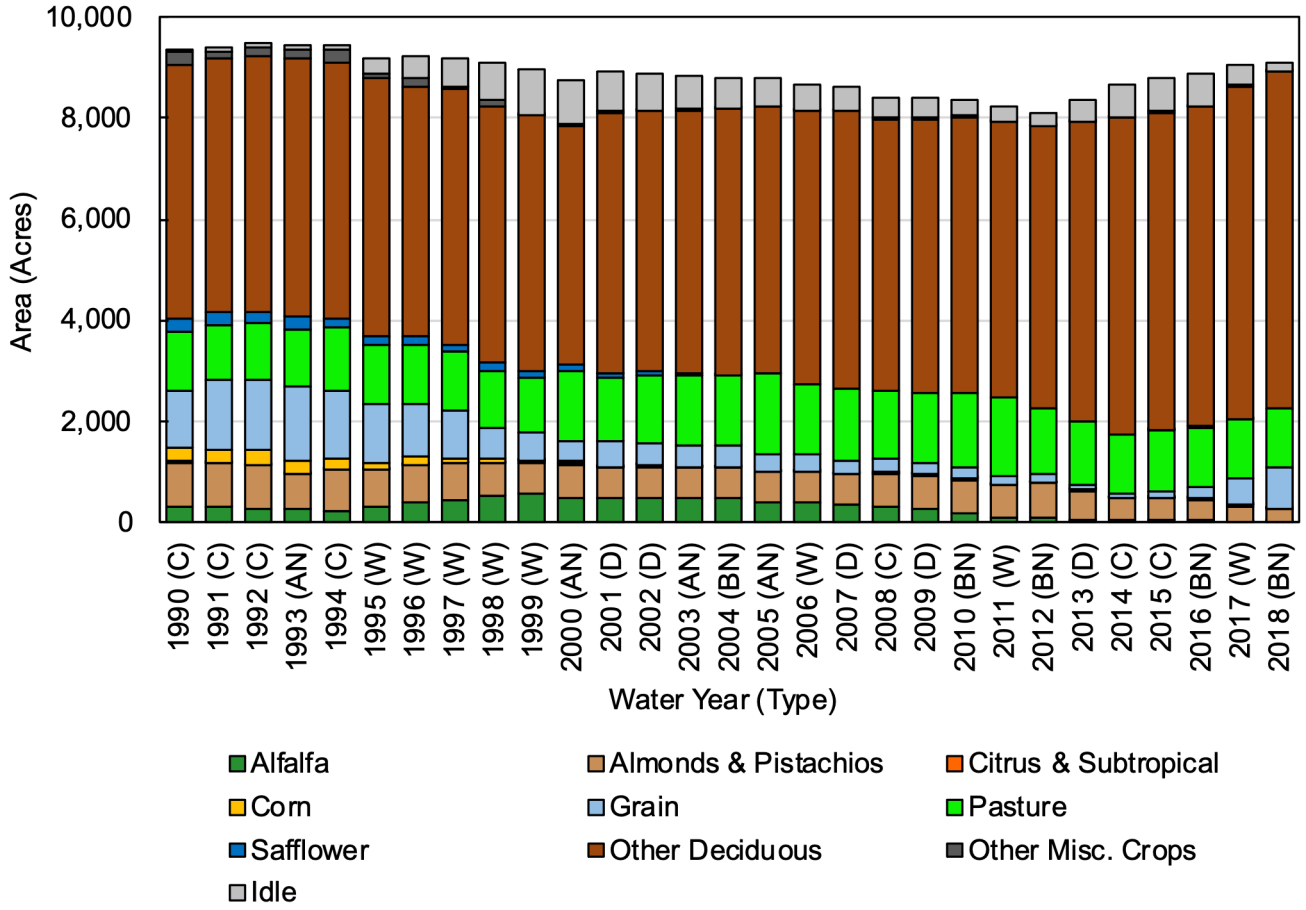


Figure 2-44. Antelope Subbasin Agricultural Land Use Areas

GSP Chapter 2C Water Budget

TEHAMA COUNTY
Flood Control and Water Conservation District

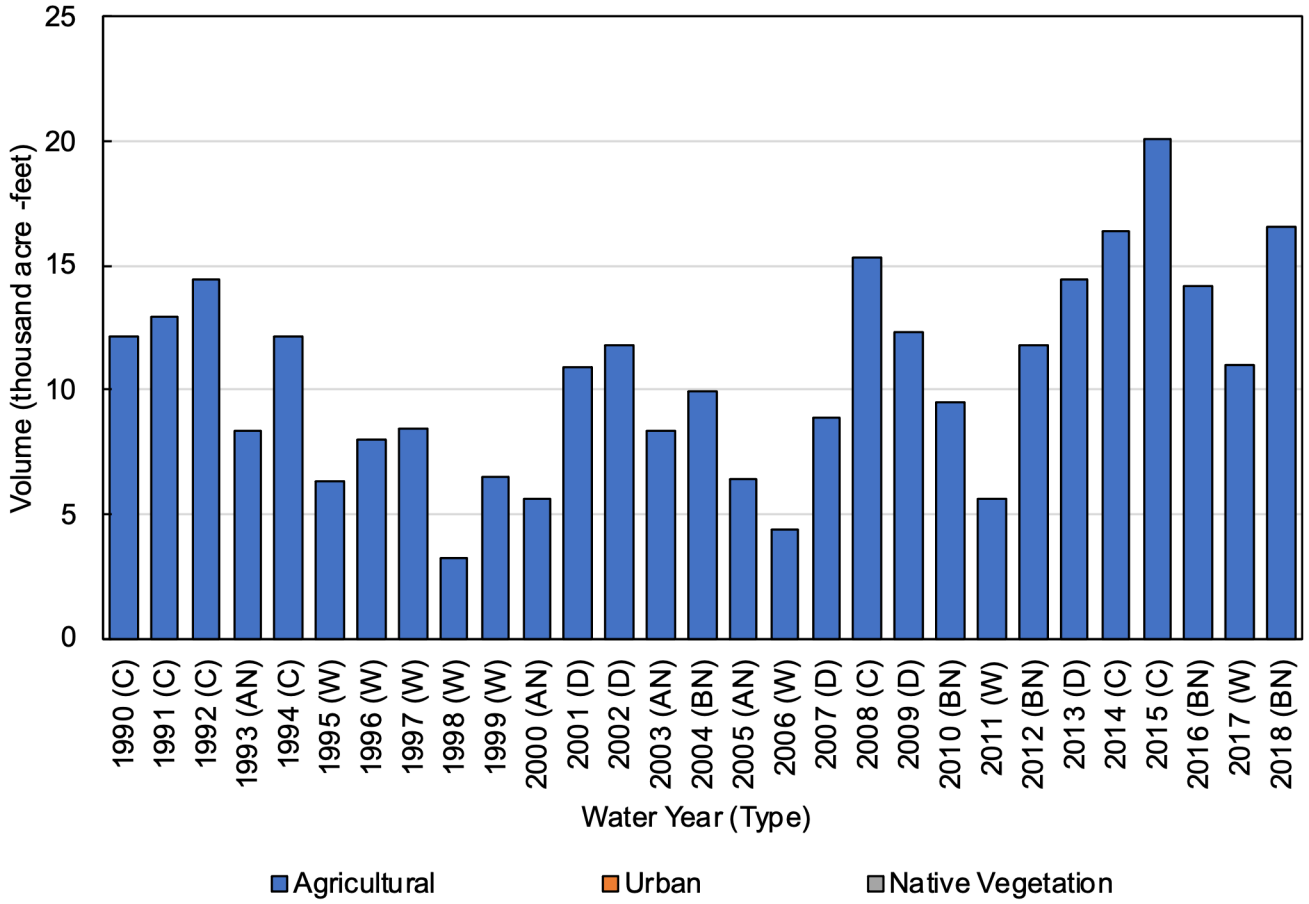


Figure 2-47. Antelope Subbasin Groundwater Pumping, by Water Use Sector

GSP Chapter 2C Water Budget

TEHAMA COUNTY
Flood Control and Water Conservation District

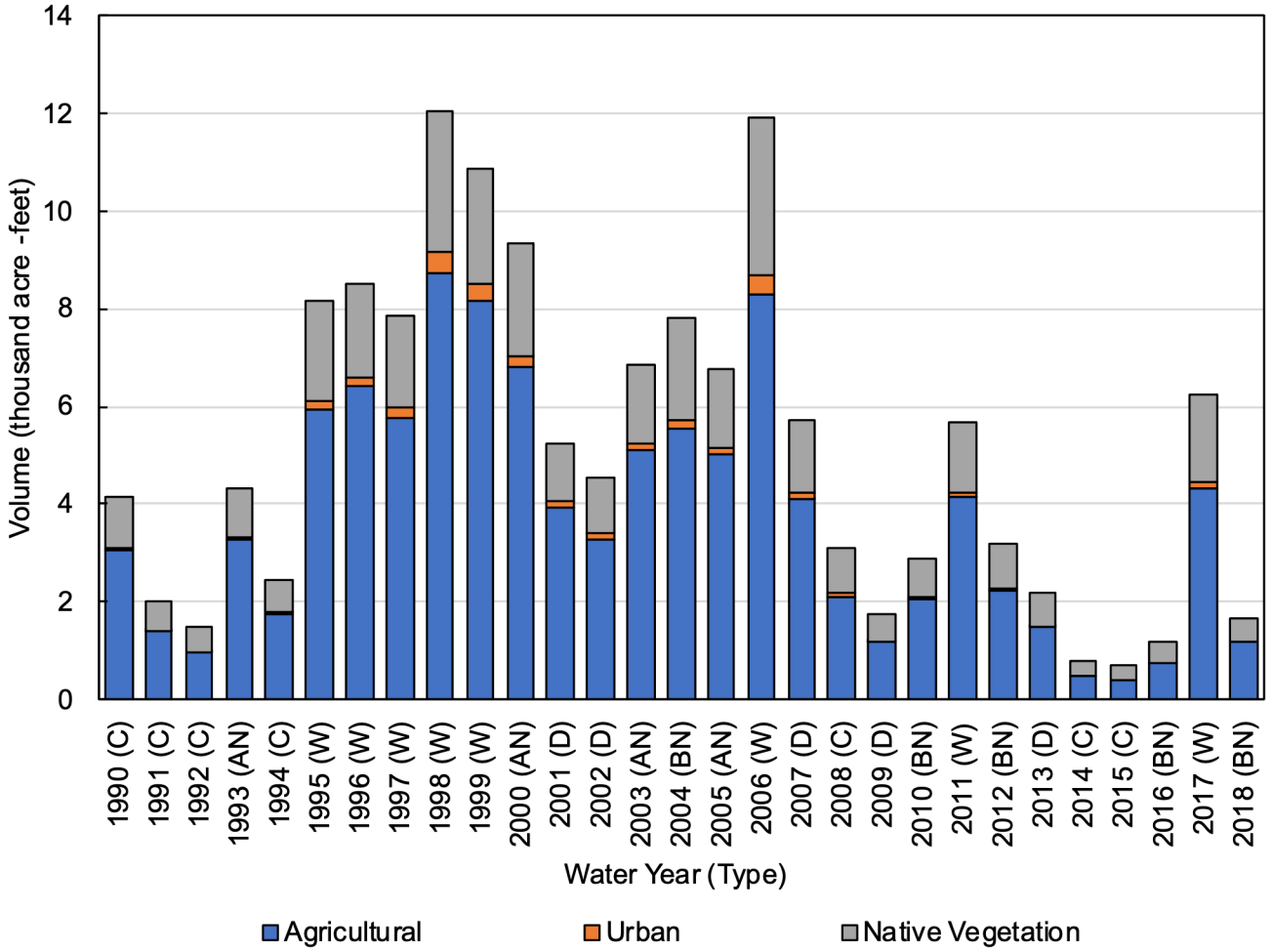


Figure 2-48. Antelope Subbasin Groundwater Uptake, by Water Use Sector

GSP Chapter 2C Water Budget

TEHAMA COUNTY
Flood Control and Water Conservation District

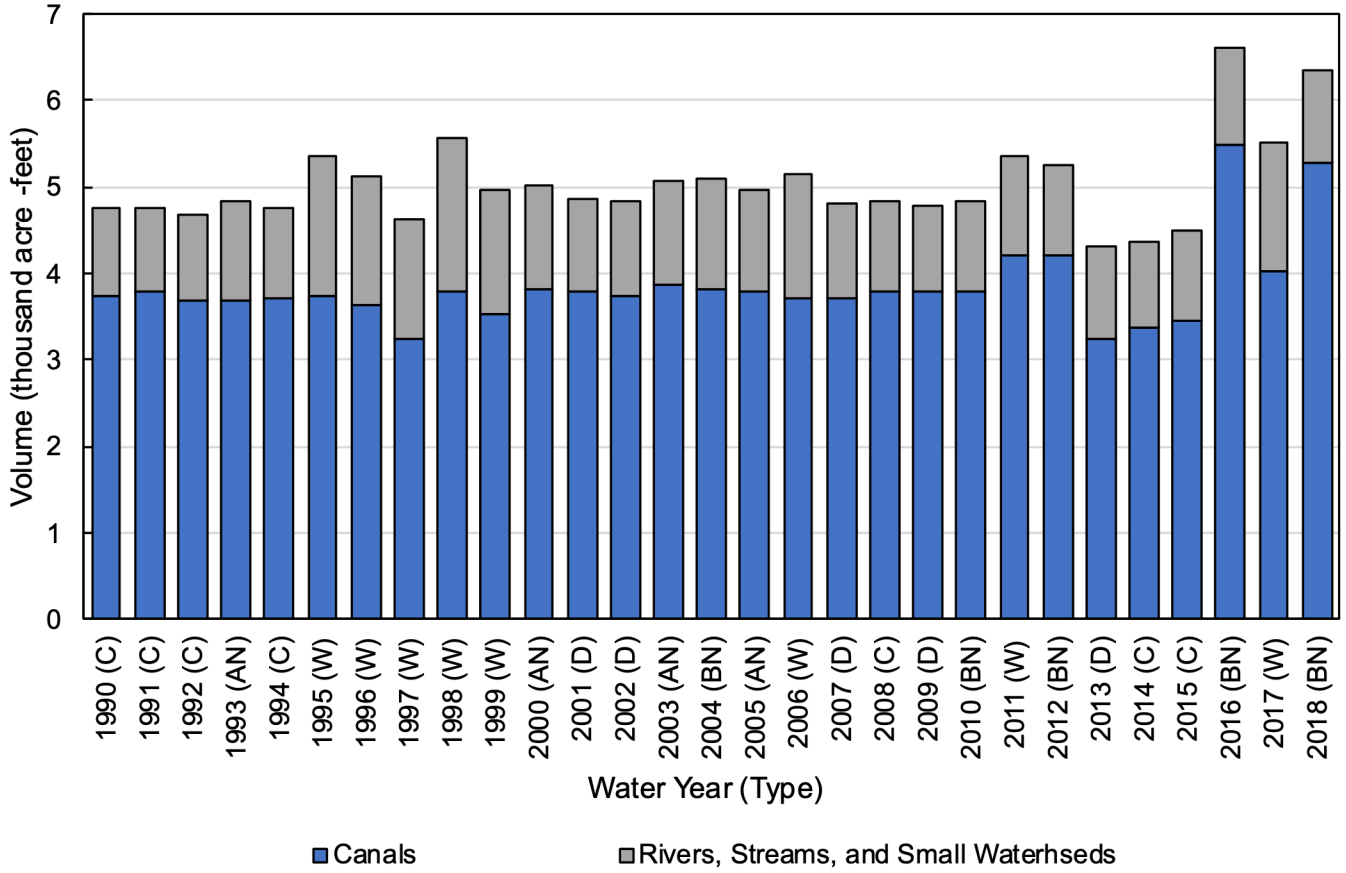


Figure 2-58. Antelope Subbasin Infiltration of Surface Water, by Water Use Sector

GSP Chapter 2C Water Budget

TEHAMA COUNTY
Flood Control and Water Conservation District

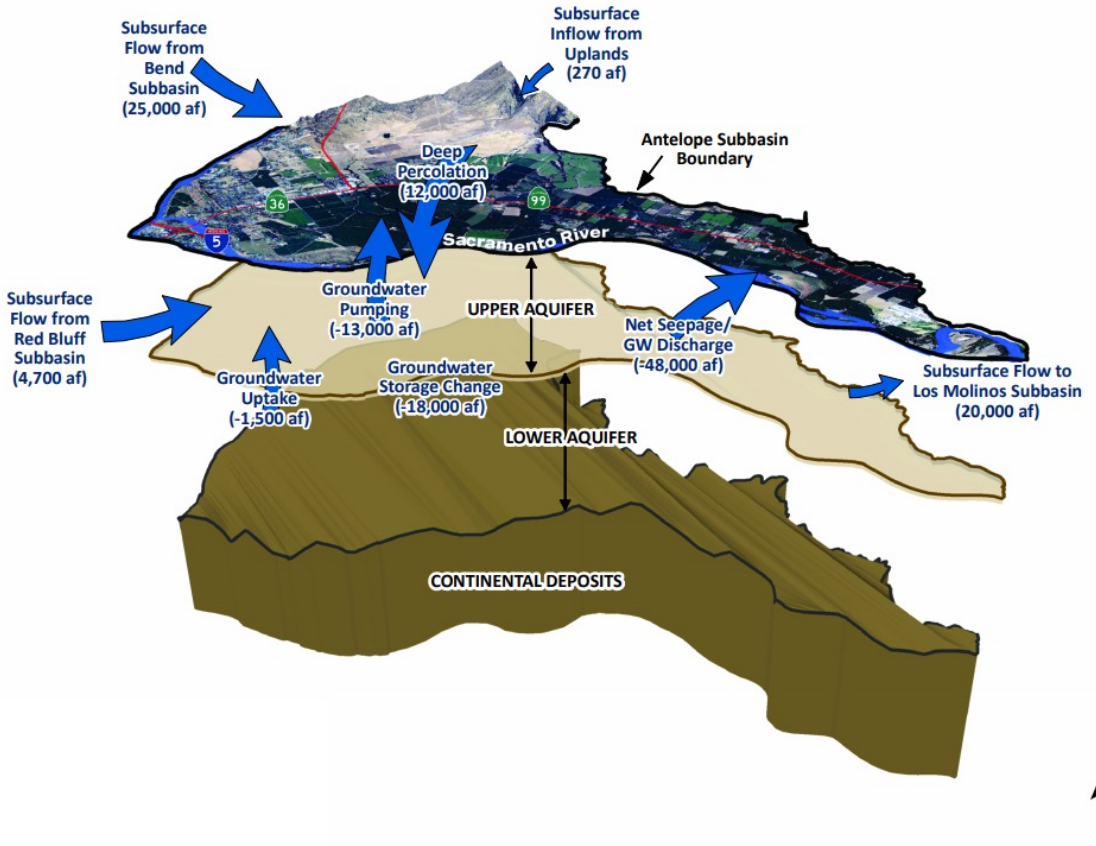


Figure 2-71. Diagram of the Antelope Subbasin Historical Average Annual Water Budget (1990-2018)

Table 2-36. Comparison of Recent GWS Water Budget Periods (acre-feet, rounded)

GWS Water Budget Component	Recent Water Budget Periods				
	Recent 10 Years	Recent 5 Years	Recent 3 Years	Recent 1 Year	Recent 1 Year
	(2009-2018)	(2014-2018)	(2016-2018)	2018	2019
Total Net Seepage	-37,000	-30,000	-29,000	-33,000	-34,000
Deep Percolation	10,000	10,000	11,000	5,800	16,000
Total Net Subsurface Flows	42,000	37,000	37,000	40,000	39,000
Groundwater Extraction (Pumping)	-15,000	-17,000	-16,000	-18,000	-13,000
Groundwater Extraction (Root Uptake)	-720	-680	-780	-600	-920
Annual Groundwater Storage Change[1]	***-800***	***-900***	***2,600***	***-6,300***	***7,700***

[1] Annual storage change volumes rounded to 100 af.
Note: positive values indicate inflows/increasing storage, negative values indicate outflows/decreasing storage.

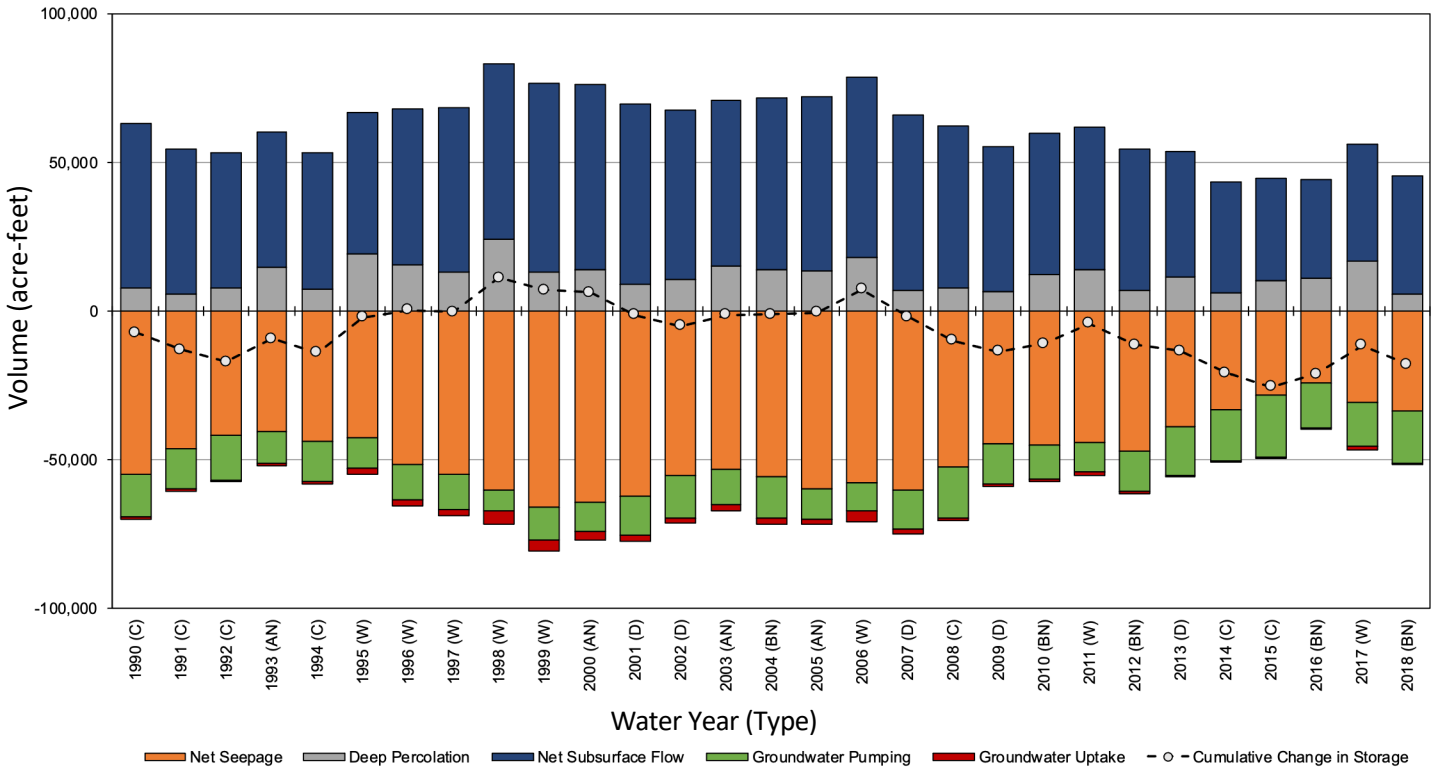
GSP Chapter 2C Water Budget (Historical)

TEHAMA COUNTY
Flood Control and Water Conservation District

Antelope Subbasin Historical Water Budget Summary (acre-feet, rounded)

Water Year (Type)		Net Seepage	Deep Percolation	Net Subsurface Flows	Ground-water Pumping	Ground-water Uptake	Annual Groundwater Storage Change	Cumulative Groundwater Storage Change
1990 (C)		-55,000	7,800	55,000	-14,000	-1,000	-7,200	-7,200
1991 (C)		-46,000	5,800	49,000	-14,000	-620	-5,900	-13,000
1992 (C)		-42,000	8,000	45,000	-15,000	-550	-4,100	-17,000
1993 (AN)		-40,000	15,000	45,000	-11,000	-870	8,000	-9,200
1994 (C)		-44,000	7,400	46,000	-14,000	-620	-4,800	-14,000
1995 (W)		-43,000	19,000	48,000	-11,000	-1,900	12,000	-2,200
1996 (W)		-52,000	16,000	52,000	-12,000	-1,900	2,600	400
1997 (W)		-55,000	13,000	55,000	-12,000	-2,100	-600	-200
1998 (W)		-60,000	24,000	59,000	-7,200	-4,400	11,000	11,000
1999 (W)		-66,000	13,000	64,000	-11,000	-3,600	-4,000	7,100
2000 (AN)		-64,000	14,000	62,000	-9,600	-3,200	-880	6,200
2001 (D)		-62,000	9,100	61,000	-13,000	-1,800	-7,500	-1,300
2002 (D)		-55,000	11,000	57,000	-14,000	-1,300	-3,700	-5,000
2003 (AN)		-53,000	15,000	56,000	-12,000	-1,800	3,700	-1,300
2004 (BN)		-56,000	14,000	58,000	-14,000	-2,200	81	-1,200
2005 (AN)		-60,000	14,000	59,000	-9,900	-1,700	780	-410
2006 (W)		-58,000	18,000	61,000	-9,400	-3,800	7,600	7,200
2007 (D)		-60,000	7,000	59,000	-13,000	-1,600	-9,100	-1,800
2008 (C)		-53,000	8,000	54,000	-17,000	-920	-8,100	-10,000
2009 (D)		-45,000	6,700	49,000	-14,000	-670	-3,700	-14,000
2010 (BN)		-45,000	12,000	48,000	-11,000	-700	2,600	-11,000
2011 (W)		-44,000	14,000	48,000	-9,900	-980	6,800	-4,200
2012 (BN)		-47,000	6,900	47,000	-14,000	-740	-7,100	-11,000
2013 (D)		-39,000	12,000	42,000	-16,000	-680	-2,000	-13,000
2014 (C)		-33,000	6,200	37,000	-17,000	-560	-7,300	-21,000
2015 (C)		-28,000	10,000	35,000	-21,000	-490	-4,800	-26,000
2016 (BN)		-24,000	11,000	33,000	-15,000	-570	4,400	-21,000
2017 (W)		-31,000	17,000	40,000	-15,000	-1,200	9,600	-12,000
2018 (BN)		-33,000	5,800	40,000	-18,000	-600	-6,300	-18,000
2019 (W)		-34,000	16,000	39,000	-13,000	-920	7,700	-10,000
Average (1990-2018)		-48,000	12,000	50,000	-13,000	-1,500	-610	-7,000
1990-2018	W	-51,000	17,000	53,000	-11,000	-2,500	5,700	
	AN	-51,000	15,000	53,000	-11,000	-1,400	4,100	
	BN	-38,000	10,000	43,000	-14,000	-900	-330	
	D	-52,000	9,000	53,000	-14,000	-1,200	-5,200	
	C	-43,000	7,700	46,000	-16,000	-690	-6,000	

Note: positive values indicate inflows/increasing storage, negative values indicate outflows/decreasing storage.



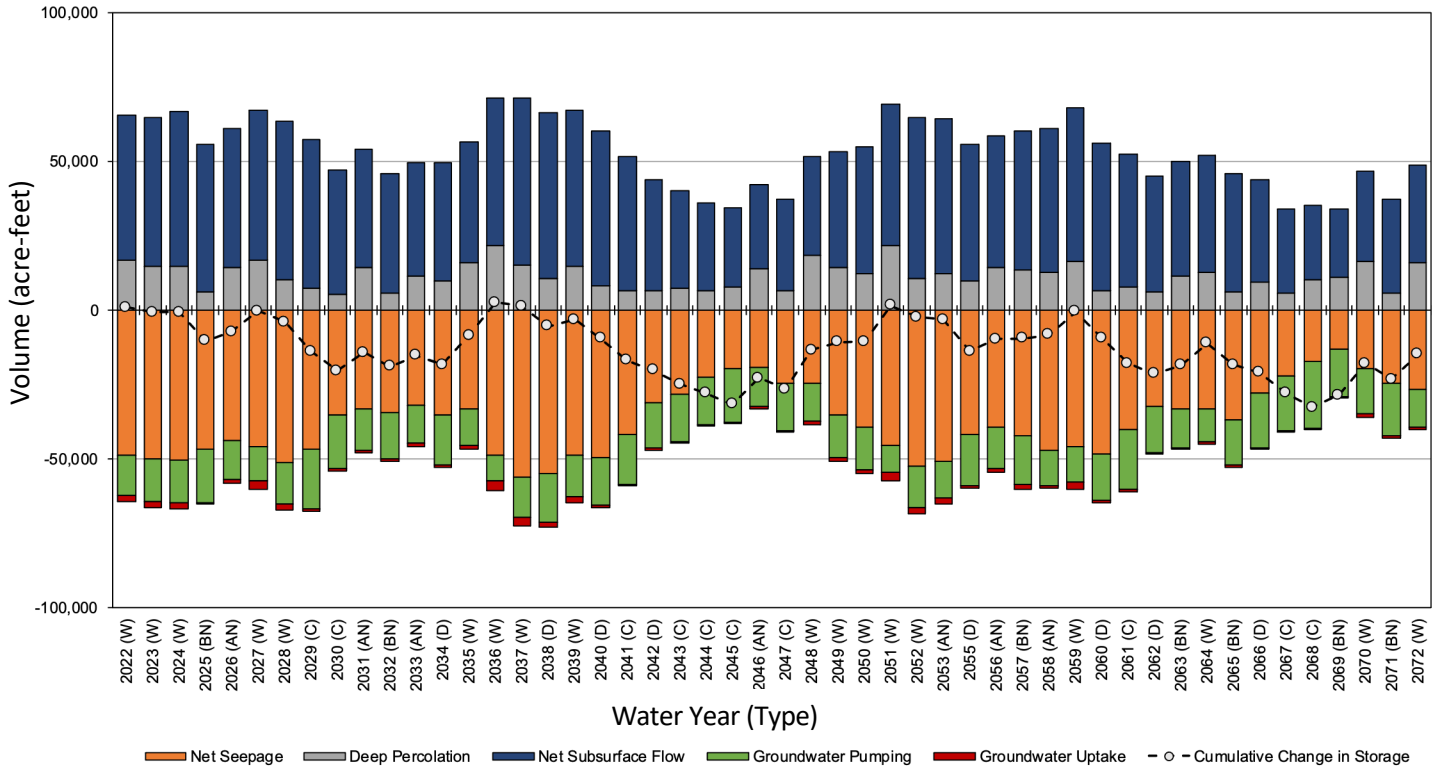
Antelope Subbasin Historical Water Budget Summary

Water Budget (Projected with Current Land Use)

TEHAMA COUNTY
Flood Control and Water Conservation District

Red Bluff Subbasin Projected Water Budget Summary with Current Land Use (acre-feet, rounded)

WY (Type)	Net Seepage	Deep Percolation	Net Subsurface Flows	Groundwater Pumping	Groundwater Uptake	Annual Groundwater Storage Change	Cumulative Groundwater Storage Change
2020 (D)	-57,000	6,900	73,000	-16,000	-1,000	6,000	0
2021 (C)	-57,000	5,700	55,000	-18,000	-1,100	-16,000	0
2022 (W)	-49,000	17,000	49,000	-14,000	-2,000	1,000	1,000
2023 (W)	-50,000	15,000	50,000	-15,000	-2,200	-1,700	-650
2024 (W)	-51,000	15,000	52,000	-14,000	-2,300	-150	-800
2025 (BN)	-47,000	6,000	50,000	-18,000	-810	-9,500	-10,000
2026 (AN)	-44,000	14,000	47,000	-13,000	-1,200	3,000	-7,200
2027 (W)	-46,000	17,000	51,000	-12,000	-2,700	6,900	-330
2028 (W)	-51,000	10,000	53,000	-14,000	-2,000	-3,600	-3,900
2029 (C)	-47,000	7,200	50,000	-20,000	-820	-9,900	-14,000
2030 (C)	-35,000	5,400	42,000	-18,000	-600	-6,600	-20,000
2031 (AN)	-33,000	14,000	40,000	-14,000	-810	6,100	-14,000
2032 (BN)	-34,000	5,800	40,000	-16,000	-640	-4,700	-19,000
2033 (AN)	-32,000	12,000	38,000	-13,000	-920	3,800	-15,000
2034 (D)	-35,000	10,000	40,000	-17,000	-670	-3,200	-18,000
2035 (W)	-33,000	16,000	41,000	-12,000	-1,400	9,900	-8,500
2036 (W)	-49,000	22,000	50,000	-8,800	-3,200	11,000	2,500
2037 (W)	-56,000	15,000	56,000	-14,000	-2,900	-1,200	1,300
2038 (D)	-55,000	11,000	56,000	-17,000	-1,600	-6,800	-5,500
2039 (W)	-49,000	15,000	53,000	-14,000	-2,000	2,400	-3,100
2040 (D)	-50,000	8,400	52,000	-16,000	-950	-6,400	-9,500
2041 (C)	-42,000	6,500	45,000	-17,000	-650	-7,400	-17,000
2042 (D)	-31,000	6,400	37,000	-15,000	-620	-3,200	-20,000
2043 (C)	-28,000	7,500	33,000	-16,000	-550	-4,700	-25,000
2044 (C)	-23,000	6,800	29,000	-16,000	-510	-3,200	-28,000
2045 (C)	-20,000	7,900	27,000	-18,000	-460	-3,600	-32,000
2046 (AN)	-19,000	14,000	28,000	-13,000	-620	8,900	-23,000
2047 (C)	-25,000	6,800	30,000	-16,000	-510	-3,800	-27,000
2048 (W)	-25,000	18,000	33,000	-13,000	-1,100	13,000	-13,000
2049 (W)	-35,000	14,000	39,000	-15,000	-1,000	2,800	-11,000
2050 (W)	-39,000	12,000	43,000	-15,000	-1,200	190	-10,000
2051 (W)	-46,000	22,000	48,000	-8,900	-2,900	12,000	1,600
2052 (W)	-53,000	11,000	54,000	-14,000	-2,200	-3,900	-2,300
2053 (AN)	-51,000	12,000	52,000	-12,000	-2,000	-740	-3,100
2054 (D)	-49,000	8,400	50,000	-16,000	-900	-7,000	-10,000
2055 (D)	-42,000	9,900	46,000	-17,000	-790	-3,800	-14,000
2056 (AN)	-40,000	14,000	44,000	-14,000	-1,000	4,100	-9,700
2057 (BN)	-42,000	14,000	47,000	-17,000	-1,300	190	-9,500
2058 (AN)	-47,000	13,000	48,000	-12,000	-890	1,200	-8,400
2059 (W)	-46,000	17,000	52,000	-12,000	-2,700	7,800	-600
2060 (D)	-49,000	6,500	50,000	-15,000	-900	-8,800	-9,400
2061 (C)	-40,000	8,000	44,000	-20,000	-700	-8,600	-18,000
2062 (D)	-32,000	6,300	39,000	-16,000	-590	-3,500	-21,000
2063 (BN)	-33,000	12,000	38,000	-13,000	-590	3,000	-18,000
2064 (W)	-33,000	13,000	39,000	-11,000	-800	7,200	-11,000
2065 (BN)	-37,000	6,100	40,000	-16,000	-650	-7,100	-18,000
2066 (D)	-28,000	9,500	35,000	-18,000	-600	-2,700	-21,000
2067 (C)	-22,000	5,700	28,000	-19,000	-500	-7,000	-28,000
2068 (C)	-17,000	10,000	25,000	-22,000	-430	-4,800	-33,000
2069 (BN)	-13,000	11,000	23,000	-16,000	-480	4,200	-29,000
2070 (W)	-20,000	16,000	30,000	-15,000	-970	11,000	-18,000
2071 (BN)	-24,000	5,800	32,000	-18,000	-550	-5,400	-23,000
2072 (W)	-26,000	16,000	33,000	-13,000	-810	8,500	-15,000
Average (2022-2072)	-37,700	11,400	42,200	-15,000	-1,200	-300	



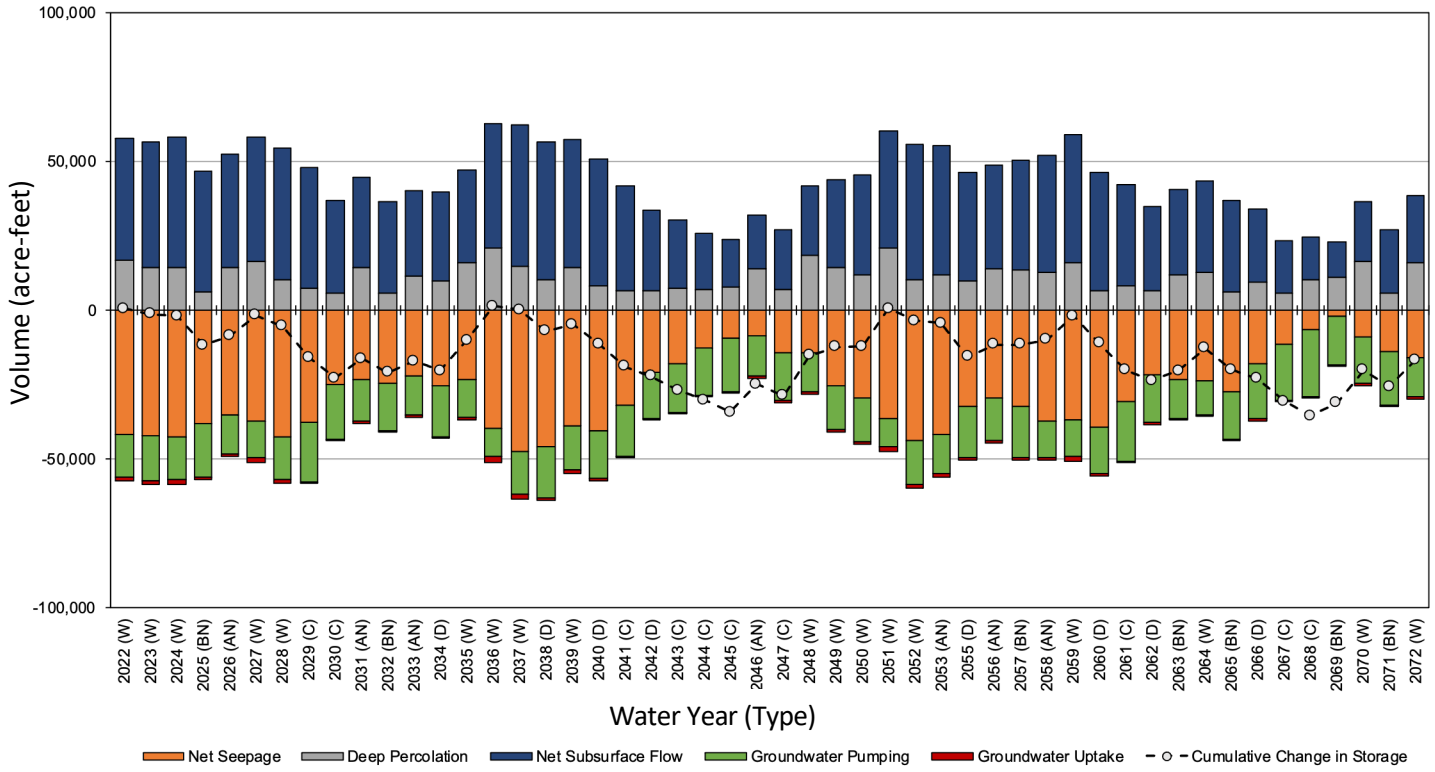
Antelope Subbasin Projected Water Budget Summary with Current Land Use

Water Budget (Projected with Future Land Use)

TEHAMA COUNTY
Flood Control and Water Conservation District

Red Bluff Subbasin Projected Water Budget Summary with Future Land Use (acre-feet, rounded)

WY (Type)	Net Seepage	Deep Percolation	Net Subsurface Flows	Groundwater Pumping	Groundwater Uptake	Annual Groundwater Storage Change	Cumulative Groundwater Storage Change
2020 (D)	-54,000	7,000	68,000	-16,000	-910	3,800	0
2021 (C)	-51,000	5,800	48,000	-19,000	-830	-17,000	0
2022 (W)	-42,000	17,000	41,000	-14,000	-1,300	620	620
2023 (W)	-42,000	14,000	42,000	-15,000	-1,300	-2,000	-1,400
2024 (W)	-42,000	14,000	44,000	-15,000	-1,300	-440	-1,800
2025 (BN)	-38,000	6,100	41,000	-18,000	-660	-9,900	-12,000
2026 (AN)	-35,000	14,000	38,000	-13,000	-820	3,100	-8,700
2027 (W)	-37,000	16,000	42,000	-12,000	-1,700	7,000	-1,700
2028 (W)	-43,000	10,000	44,000	-15,000	-1,100	-3,700	-5,400
2029 (C)	-38,000	7,300	41,000	-20,000	-660	-10,000	-16,000
2030 (C)	-25,000	5,600	31,000	-18,000	-530	-7,100	-23,000
2031 (AN)	-23,000	14,000	30,000	-14,000	-660	6,600	-16,000
2032 (BN)	-25,000	5,900	30,000	-16,000	-560	-4,700	-21,000
2033 (AN)	-22,000	12,000	28,000	-13,000	-750	4,000	-17,000
2034 (D)	-25,000	10,000	30,000	-17,000	-580	-3,300	-20,000
2035 (W)	-23,000	16,000	31,000	-13,000	-1,000	10,000	-10,000
2036 (W)	-40,000	21,000	42,000	-9,500	-2,000	12,000	1,400
2037 (W)	-47,000	15,000	48,000	-15,000	-1,700	-1,300	120
2038 (D)	-46,000	10,000	46,000	-17,000	-860	-7,200	-7,100
2039 (W)	-39,000	14,000	43,000	-15,000	-1,100	2,300	-4,800
2040 (D)	-40,000	8,400	42,000	-16,000	-680	-6,500	-11,000
2041 (C)	-32,000	6,600	35,000	-17,000	-560	-7,600	-19,000
2042 (D)	-21,000	6,600	27,000	-16,000	-540	-3,400	-22,000
2043 (C)	-18,000	7,600	23,000	-16,000	-480	-4,700	-27,000
2044 (C)	-13,000	6,900	19,000	-16,000	-440	-3,300	-30,000
2045 (C)	-9,200	8,000	16,000	-18,000	-410	-3,900	-34,000
2046 (AN)	-8,800	14,000	18,000	-14,000	-540	9,300	-25,000
2047 (C)	-14,000	6,900	20,000	-16,000	-450	-3,800	-29,000
2048 (W)	-14,000	18,000	23,000	-13,000	-850	13,000	-15,000
2049 (W)	-25,000	14,000	30,000	-15,000	-800	2,900	-12,000
2050 (W)	-29,000	12,000	33,000	-15,000	-840	200	-12,000
2051 (W)	-36,000	21,000	39,000	-9,600	-1,700	13,000	440
2052 (W)	-44,000	10,000	45,000	-14,000	-1,200	-4,000	-3,600
2053 (AN)	-42,000	12,000	43,000	-13,000	-1,200	-760	-4,300
2054 (D)	-40,000	8,400	41,000	-16,000	-670	-7,200	-12,000
2055 (D)	-32,000	10,000	36,000	-17,000	-650	-4,100	-16,000
2056 (AN)	-30,000	14,000	35,000	-14,000	-750	4,200	-11,000
2057 (BN)	-32,000	14,000	37,000	-17,000	-900	-1	-11,000
2058 (AN)	-37,000	13,000	39,000	-12,000	-680	1,500	-9,900
2059 (W)	-37,000	16,000	43,000	-12,000	-1,600	7,900	-2,000
2060 (D)	-39,000	6,500	40,000	-16,000	-690	-9,100	-11,000
2061 (C)	-31,000	8,100	34,000	-20,000	-590	-9,000	-20,000
2062 (D)	-22,000	6,500	28,000	-16,000	-510	-3,700	-24,000
2063 (BN)	-23,000	12,000	29,000	-13,000	-510	3,400	-20,000
2064 (W)	-24,000	13,000	31,000	-11,000	-680	7,600	-13,000
2065 (BN)	-28,000	6,200	31,000	-16,000	-570	-7,200	-20,000
2066 (D)	-18,000	9,600	24,000	-18,000	-530	-3,200	-23,000
2067 (C)	-12,000	5,800	17,000	-19,000	-450	-7,500	-31,000
2068 (C)	-6,500	10,000	14,000	-23,000	-380	-5,000	-36,000
2069 (BN)	-2,100	11,000	12,000	-16,000	-410	4,300	-31,000
2070 (W)	-8,800	16,000	20,000	-16,000	-770	11,000	-20,000
2071 (BN)	-14,000	5,900	21,000	-18,000	-480	-5,500	-26,000
2072 (W)	-16,000	16,000	23,000	-13,000	-660	8,900	-17,000
Average (2022-2072)	-28,100	11,300	32,600	-15,400	-800	-300	



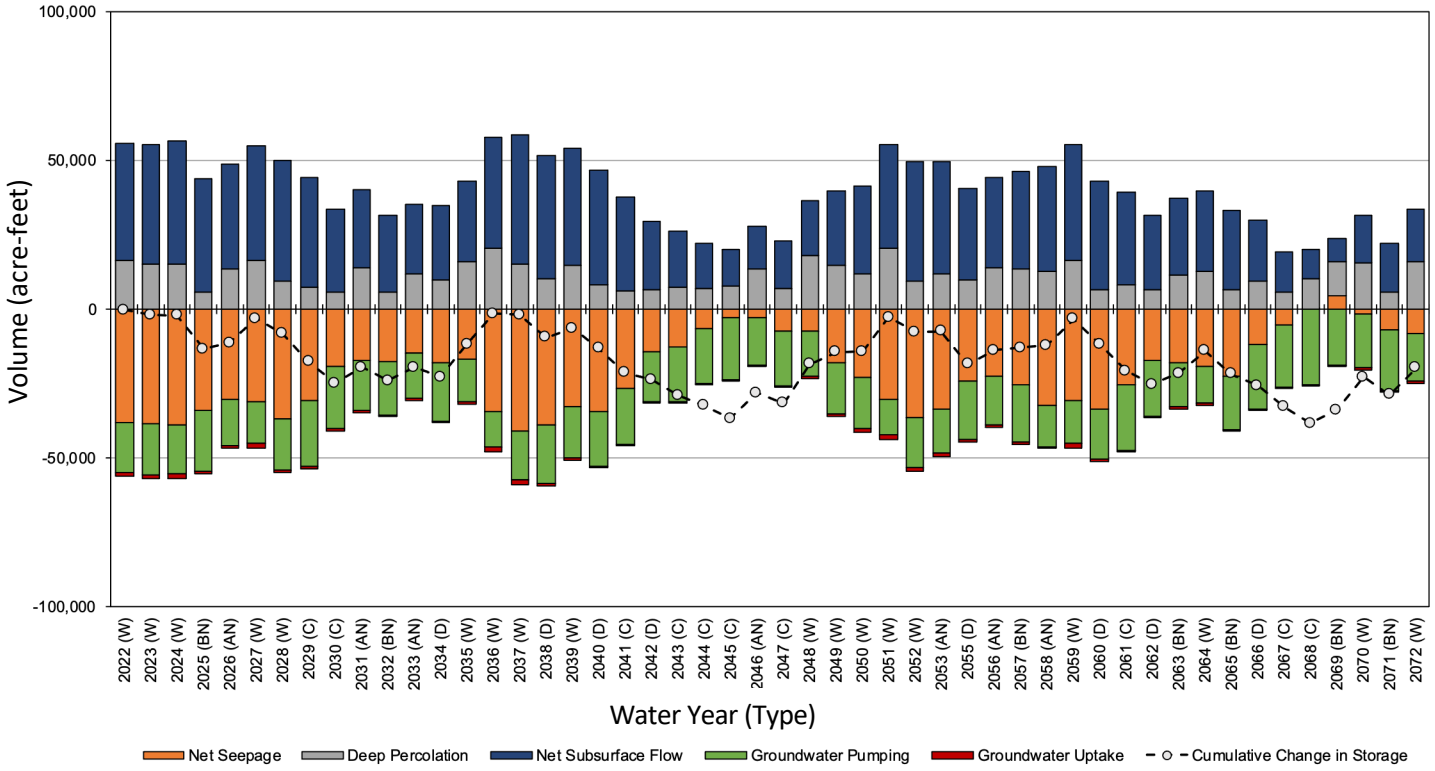
Antelope Subbasin Projected Water Budget Summary With Future Land Use

Water Budget (Projected with Climate Change)

TEHAMA COUNTY
Flood Control and Water Conservation District

Red Bluff Subbasin Projected Water Budget Summary with Climate Change (acre-feet, rounded)

WY (Type)	Net Seepage	Deep Percolation	Net Subsurface Flows	Groundwater Pumping	Groundwater Uptake	Annual Groundwater Storage Change	Cumulative Groundwater Storage Change
2020 (D)	-53,000	7,200	68,000	-17,000	-980	3,900	0
2021 (C)	-50,000	5,800	47,000	-21,000	-870	-18,000	0
2022 (W)	-38,000	16,000	40,000	-17,000	-1,300	-230	-230
2023 (W)	-38,000	15,000	40,000	-17,000	-1,500	-1,600	-1,900
2024 (W)	-39,000	15,000	42,000	-17,000	-1,600	-320	-2,200
2025 (BN)	-34,000	5,800	38,000	-21,000	-670	-11,000	-13,000
2026 (AN)	-30,000	14,000	35,000	-16,000	-810	1,900	-11,000
2027 (W)	-31,000	16,000	39,000	-14,000	-1,700	8,200	-3,200
2028 (W)	-37,000	9,500	40,000	-17,000	-980	-5,100	-8,300
2029 (C)	-31,000	7,400	37,000	-22,000	-680	-9,300	-18,000
2030 (C)	-19,000	5,700	28,000	-21,000	-520	-7,300	-25,000
2031 (AN)	-17,000	14,000	26,000	-17,000	-650	5,400	-20,000
2032 (BN)	-18,000	5,600	26,000	-18,000	-550	-4,600	-24,000
2033 (AN)	-15,000	12,000	23,000	-15,000	-750	4,600	-19,000
2034 (D)	-18,000	10,000	25,000	-20,000	-590	-3,400	-23,000
2035 (W)	-17,000	16,000	27,000	-14,000	-1,100	11,000	-12,000
2036 (W)	-34,000	20,000	38,000	-12,000	-1,700	10,000	-1,600
2037 (W)	-41,000	15,000	44,000	-17,000	-1,600	-380	-2,000
2038 (D)	-39,000	10,000	42,000	-20,000	-820	-7,500	-9,500
2039 (W)	-33,000	15,000	39,000	-17,000	-1,200	2,900	-6,500
2040 (D)	-35,000	8,200	39,000	-18,000	-680	-6,700	-13,000
2041 (C)	-27,000	6,200	31,000	-19,000	-530	-8,200	-21,000
2042 (D)	-14,000	6,600	23,000	-17,000	-560	-2,200	-24,000
2043 (C)	-13,000	7,600	19,000	-19,000	-480	-5,400	-29,000
2044 (C)	-6,600	7,000	15,000	-19,000	-440	-3,500	-33,000
2045 (C)	-2,800	8,000	12,000	-21,000	-400	-4,100	-37,000
2046 (AN)	-2,900	13,000	14,000	-16,000	-530	8,600	-28,000
2047 (C)	-7,300	7,000	16,000	-19,000	-450	-3,500	-32,000
2048 (W)	-7,200	18,000	19,000	-15,000	-830	13,000	-18,000
2049 (W)	-18,000	15,000	25,000	-17,000	-860	4,000	-14,000
2050 (W)	-23,000	12,000	30,000	-17,000	-920	330	-14,000
2051 (W)	-30,000	20,000	35,000	-12,000	-1,400	11,000	-2,700
2052 (W)	-36,000	9,600	40,000	-17,000	-960	-4,900	-7,600
2053 (AN)	-33,000	12,000	38,000	-15,000	-1,000	60	-7,600
2054 (D)	-32,000	8,200	36,000	-18,000	-650	-7,000	-15,000
2055 (D)	-24,000	10,000	31,000	-20,000	-650	-3,900	-18,000
2056 (AN)	-23,000	14,000	30,000	-16,000	-750	4,600	-14,000
2057 (BN)	-25,000	14,000	33,000	-19,000	-960	830	-13,000
2058 (AN)	-32,000	13,000	35,000	-14,000	-640	970	-12,000
2059 (W)	-31,000	16,000	39,000	-14,000	-1,600	8,700	-3,400
2060 (D)	-34,000	6,700	36,000	-17,000	-710	-8,400	-12,000
2061 (C)	-25,000	8,200	31,000	-22,000	-640	-8,900	-21,000
2062 (D)	-17,000	6,400	25,000	-19,000	-510	-4,600	-25,000
2063 (BN)	-18,000	12,000	26,000	-15,000	-530	3,700	-22,000
2064 (W)	-19,000	13,000	27,000	-12,000	-700	7,600	-14,000
2065 (BN)	-23,000	6,500	27,000	-18,000	-570	-7,800	-22,000
2066 (D)	-12,000	9,600	20,000	-21,000	-520	-3,900	-26,000
2067 (C)	-5,300	5,900	14,000	-21,000	-440	-7,200	-33,000
2068 (C)	81	10,000	10,000	-26,000	-370	-5,600	-38,000
2069 (BN)	4,700	11,000	7,800	-19,000	-420	4,600	-34,000
2070 (W)	-1,500	16,000	16,000	-18,000	-800	11,000	-23,000
2071 (BN)	-6,800	5,600	16,000	-21,000	-470	-5,900	-29,000
2072 (W)	-8,300	16,000	18,000	-16,000	-660	9,000	-20,000
Average (2022-2072)	-21,900	11,300	28,700	-17,600	-800	-400	



Antelope Subbasin Projected Water Budget Summary With Climate Change

Proposed SMC Development Process

TEHAMA COUNTY
Flood Control and Water Conservation District

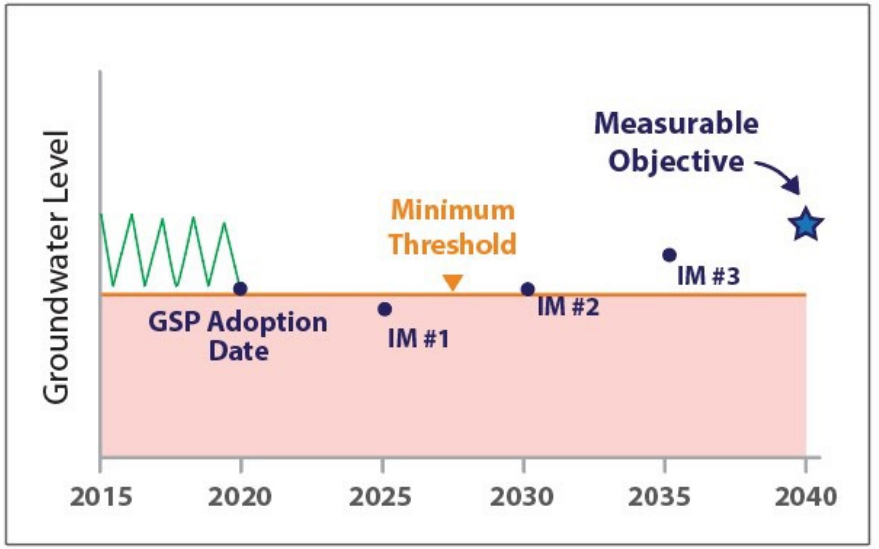
The charge under SGMA is to build a “thermometer” for each of the six groundwater sustainability indicators

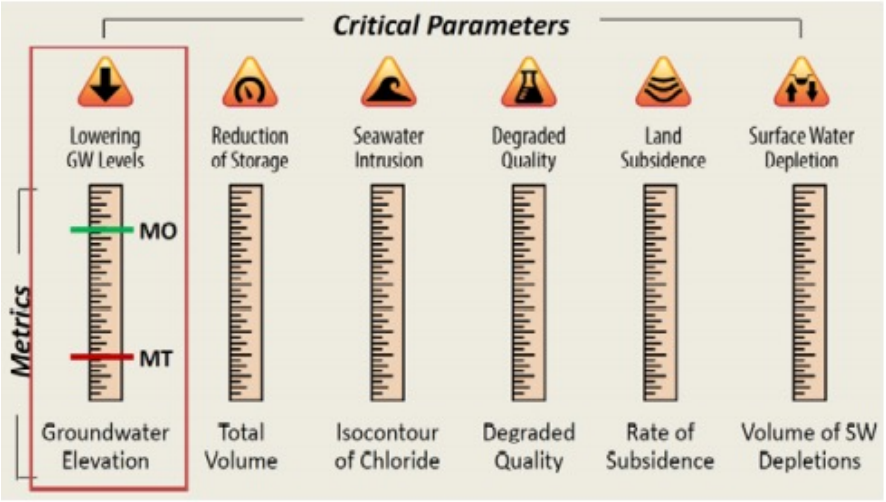
1. Define what is healthy/sustainable
2. Define what is unhealthy/unsustainable
3. Determine what to do when not healthy or close to not healthy

GSP Chapter 3 Sustainable Management Criteria

TEHAMA COUNTY
Flood Control and Water Conservation District

1. Sustainable Management Goal
2. Measurable Objectives
3. Minimum Thresholds
4. Undesirable Results
5. Monitoring Network



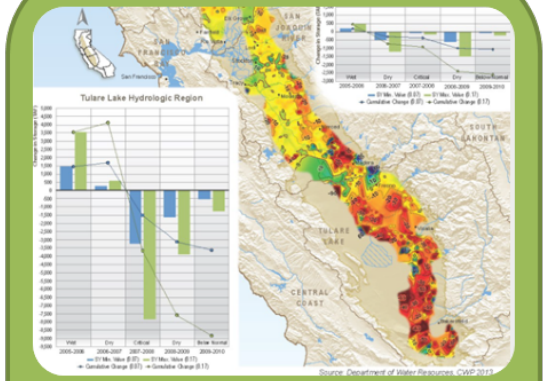


Sustainability Indicator Examples

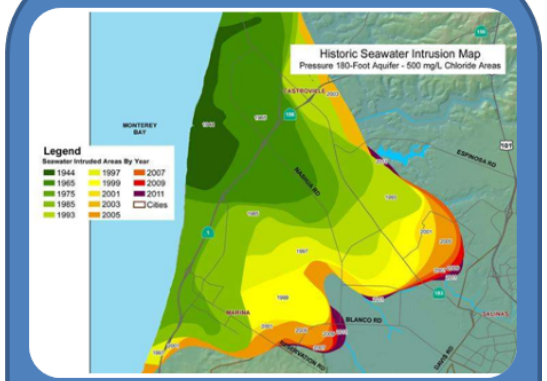
TEHAMA COUNTY
Flood Control and Water Conservation District



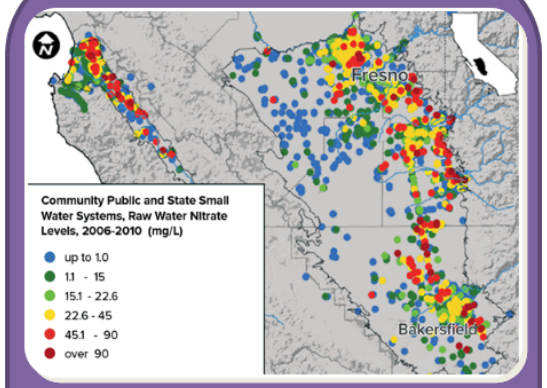
Lowering of GW Levels



Reduction of GW Storage



Seawater Intrusion



Degraded Water Quality



Land Subsidence

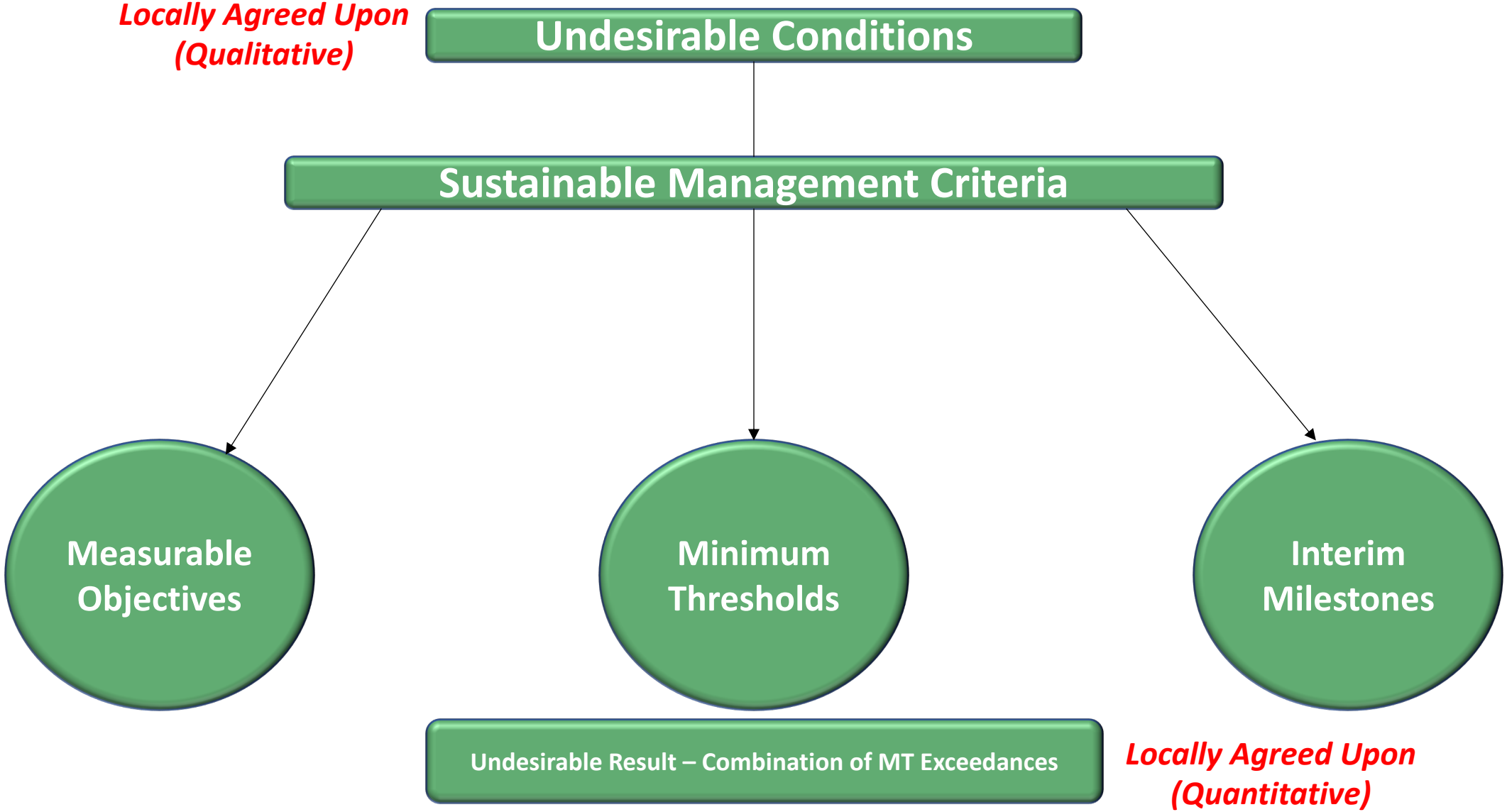


Depletion of Inter-connected Streams

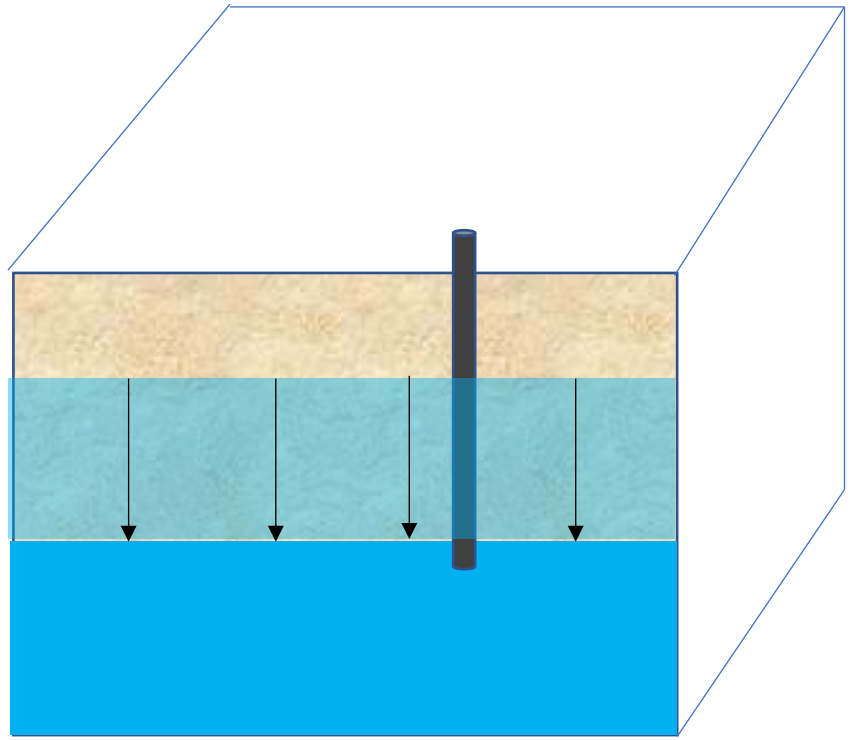
Source: DWR

Sustainable Management Criteria (SMC)

TEHAMA COUNTY
Flood Control and Water Conservation District



Chronic Lowering of Groundwater Levels



- Continued lowering of groundwater levels can lead to undesirable results for all beneficial users

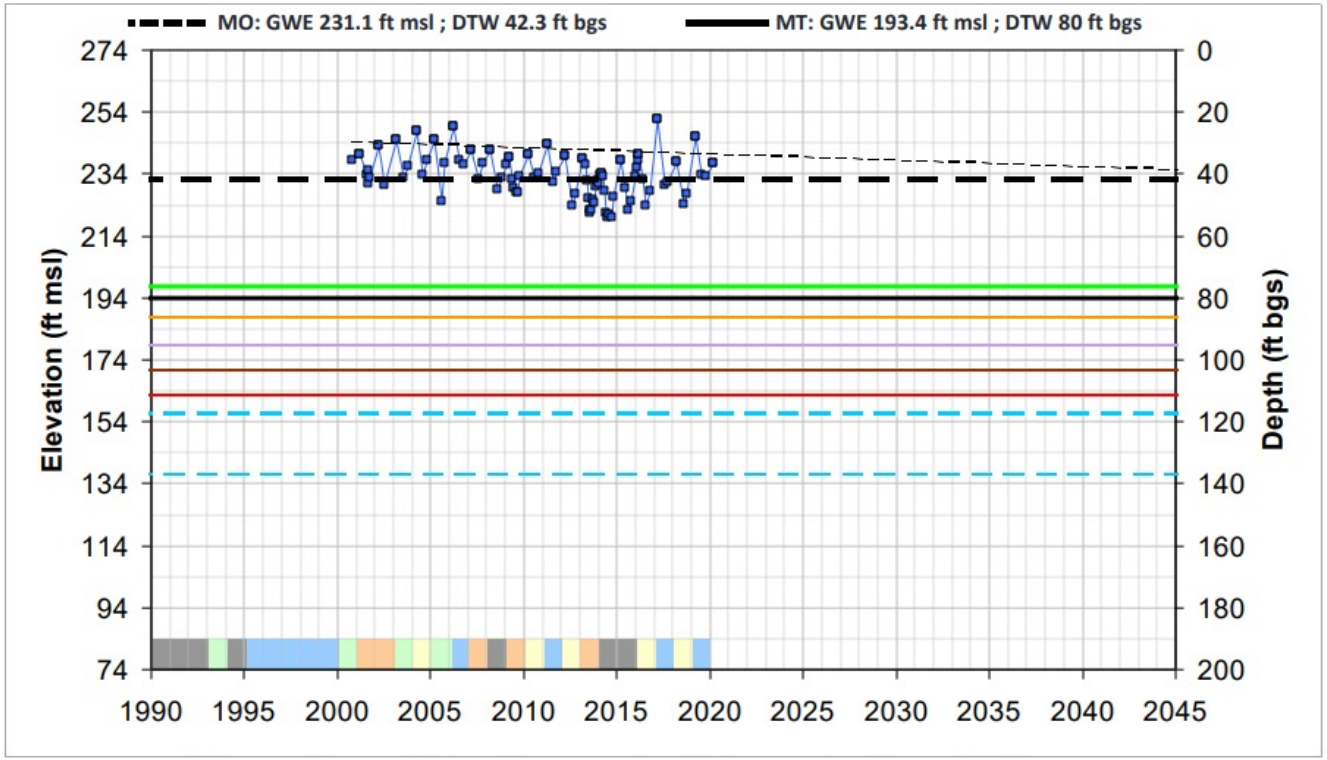
- Overdraft during a period of drought is not sufficient to establish a chronic lowering of groundwater levels if extractions and recharge are managed as necessary to ensure that reductions during a period of drought are offset by increases during other periods

Chronic Lowering of Groundwater Levels

TEHAMA COUNTY
Flood Control and Water Conservation District

Ant-1 SWN: 27N03W16K003M (in Antelope Subbasin) **Well Depth (ft): 137; Screens (ft bgs): 117 - 137**

MO method: SP 2042 DTW + 5 ft **Aquifer: Upper; Well Type: Domestic**



Upper Aquifer grid: F-4; Analysis based on domestic wells constructed since 1980

Number of wells in Upper Aq. Grid				Number of wells shallower than:				
All Wells	Up Aq.	Low Aq.	Composite/ Aq. Unknown	10th pct	20th pct	30th pct	40th pct	50th pct
416	416	0	0	44	88	129	170	212

Chronic Lowering of Groundwater Levels

TEHAMA COUNTY
Flood Control and Water Conservation District

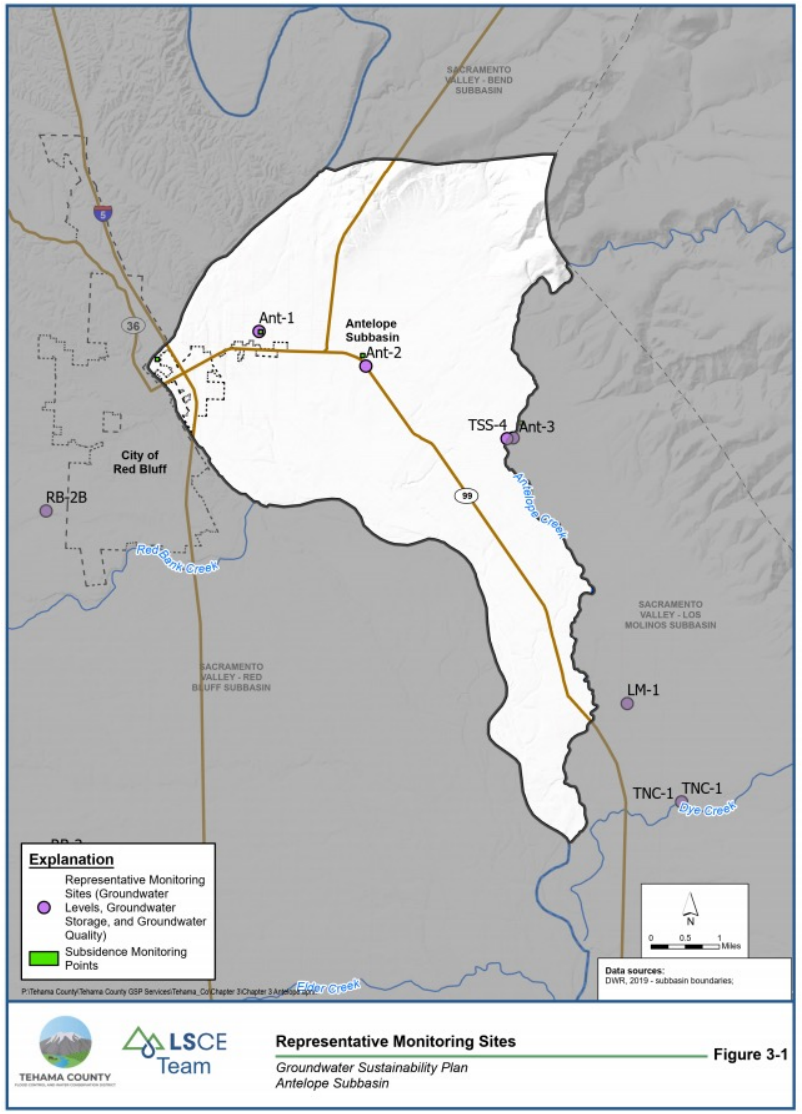
Sustainability Indicator	Minimum Threshold	Measurable Objective	Undesirable Result
Chronic Lowering of Groundwater Elevations	Upper Aquifer: Spring groundwater elevation where less than 10 - 20% (on average) of domestic wells could potentially be impacted. Lower Aquifer: Spring groundwater elevation plus 20 to 120 feet	Upper & Lower Aquifer: Spring 2015 groundwater elevation minus 5 feet (for wells with increasing or no groundwater trends) or projected Spring 2042 groundwater elevation minus 5 feet for wells with declining groundwater elevations	25% of groundwater elevations measured at same RMS wells exceed the associated MT for 2 consecutive measurements. *If the water year is dry or critically dry, then levels below the MT are not undesirable if groundwater management allows for recovery in average or wetter years*

Table 3-7. Minimum Thresholds and Interim Milestones for the Chronic Lowering of Water Elevations – Upper Aquifer

Well Name	SWN	Interim Milestone 5 Years (ft NAVD88)	Interim Milestone 10 Years (ft NAVD88)	Interim Milestone 15 Years (ft NAVD88)	Measurable Objective (ft NAVD88)	Minimum Threshold (ft NAVD88)
Ant-1	27N03W16K003M	203.07	212.72	222.37	232.03	193.43
Ant-2	27N03W23D001M	193.63	205.82	218.01	230.2	181.43
Ant-3	27N02W30C003M	203.49	214	224.51	235.02	193
TSS-4	TBD	TBD	TBD	TBD	TBD	TBD

Table 3-8. Minimum Threshold and Interim Milestones for the Chronic Lowering of Water Elevations - Lower Aquifer

Well Name	SWN	Interim Milestone 5 Years (ft NAVD88)	Interim Milestone 10 Years (ft NAVD88)	Interim Milestone 15 Years (ft NAVD88)	Measurable Objective (ft NAVD88)	Minimum Threshold (ft NAVD88)
TSS-4	TBD	TBD	TBD	TBD	TBD	TBD

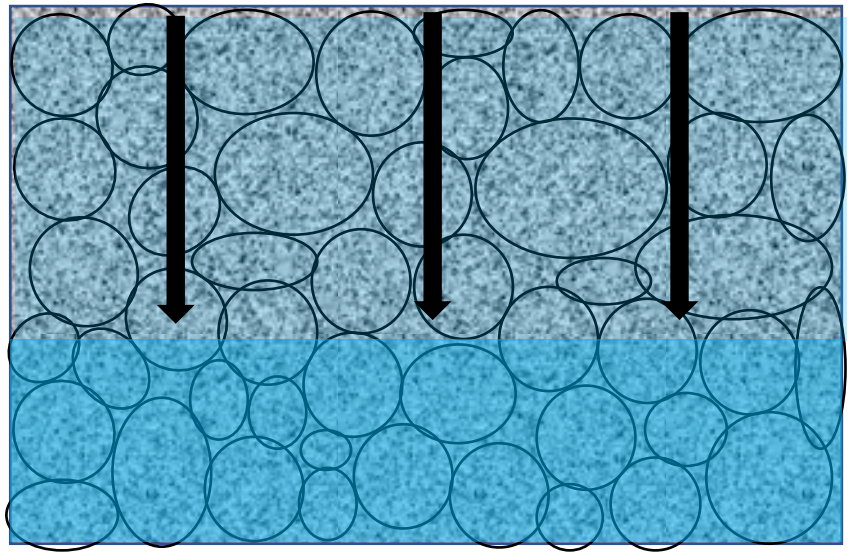


Reduction of Groundwater Storage

TEHAMA COUNTY
Flood Control and Water Conservation District

- Decline in groundwater storage would result in a decreased availability of groundwater for agriculture, municipal, industrial and domestic uses.

- Projects and/or Management actions would be required to mitigate these reductions in storage.



Reduction of Groundwater Storage

TEHAMA COUNTY
Flood Control and Water Conservation District

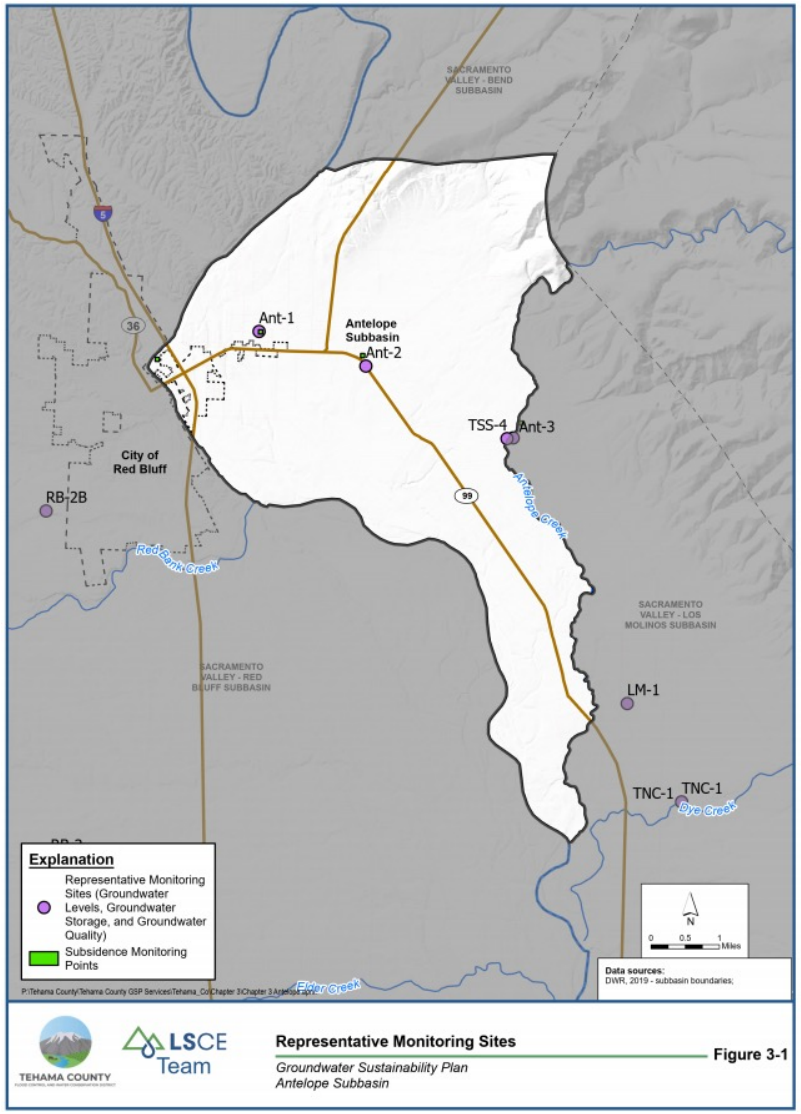
Sustainability Indicator	Minimum Threshold	Measurable Objective	Undesirable Result
Reduction of Groundwater Storage	Upper & Lower Aquifer: Amount of groundwater in storage when groundwater elevations are at their MT	Upper & Lower Aquifer: Amount of groundwater storage when groundwater elevations are at their measurable objective	Same as chronic lowering of groundwater levels

Table 3-7. Minimum Thresholds and Interim Milestones for the Chronic Lowering of Water Elevations – Upper Aquifer

Well Name	SWN	Interim Milestone 5 Years (ft NAVD88)	Interim Milestone 10 Years (ft NAVD88)	Interim Milestone 15 Years (ft NAVD88)	Measurable Objective (ft NAVD88)	Minimum Threshold (ft NAVD88)
Ant-1	27N03W16K003M	203.07	212.72	222.37	232.03	193.43
Ant-2	27N03W23D001M	193.63	205.82	218.01	230.2	181.43
Ant-3	27N02W30C003M	203.49	214	224.51	235.02	193
TSS-4	TBD	TBD	TBD	TBD	TBD	TBD

Table 3-8. Minimum Threshold and Interim Milestones for the Chronic Lowering of Water Elevations - Lower Aquifer

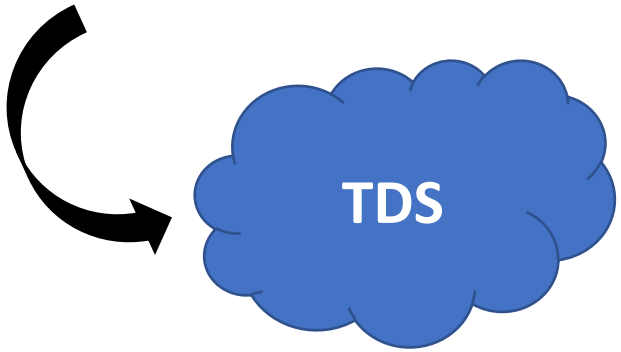
Well Name	SWN	Interim Milestone 5 Years (ft NAVD88)	Interim Milestone 10 Years (ft NAVD88)	Interim Milestone 15 Years (ft NAVD88)	Measurable Objective (ft NAVD88)	Minimum Threshold (ft NAVD88)
TSS-4	TBD	TBD	TBD	TBD	TBD	TBD



Degradation of Water Quality

TEHAMA COUNTY
Flood Control and Water Conservation District





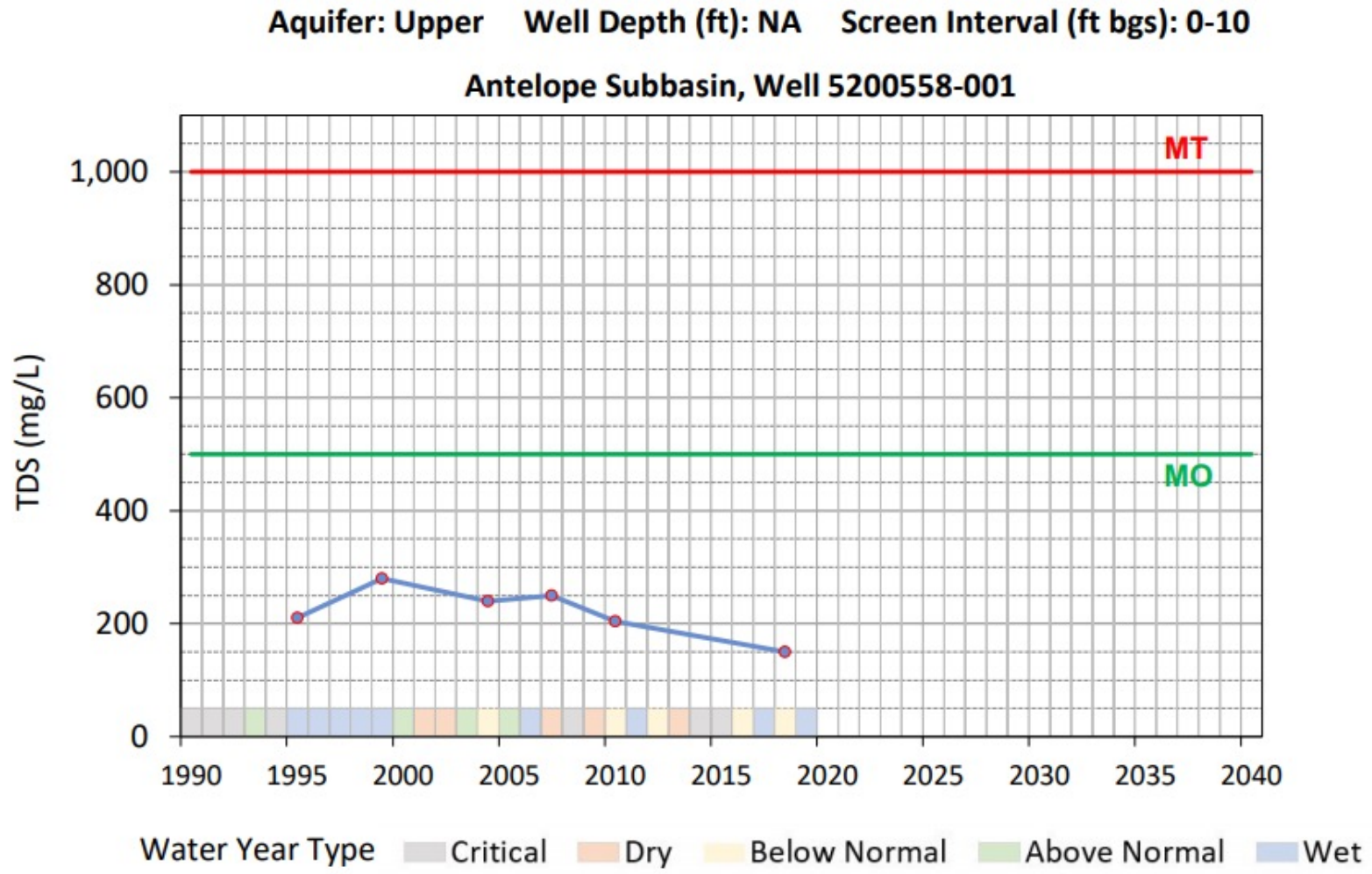
- Degradation of water quality is considered significant and undesirable if the magnitude of degradation renders groundwater in pre-existing wells unusable without management actions

- Within these four subbasins, TDS will be used as indicators for water quality degradation

Total Dissolved Solids (TDS)

Degradation of Water Quality

TEHAMA COUNTY
Flood Control and Water Conservation District

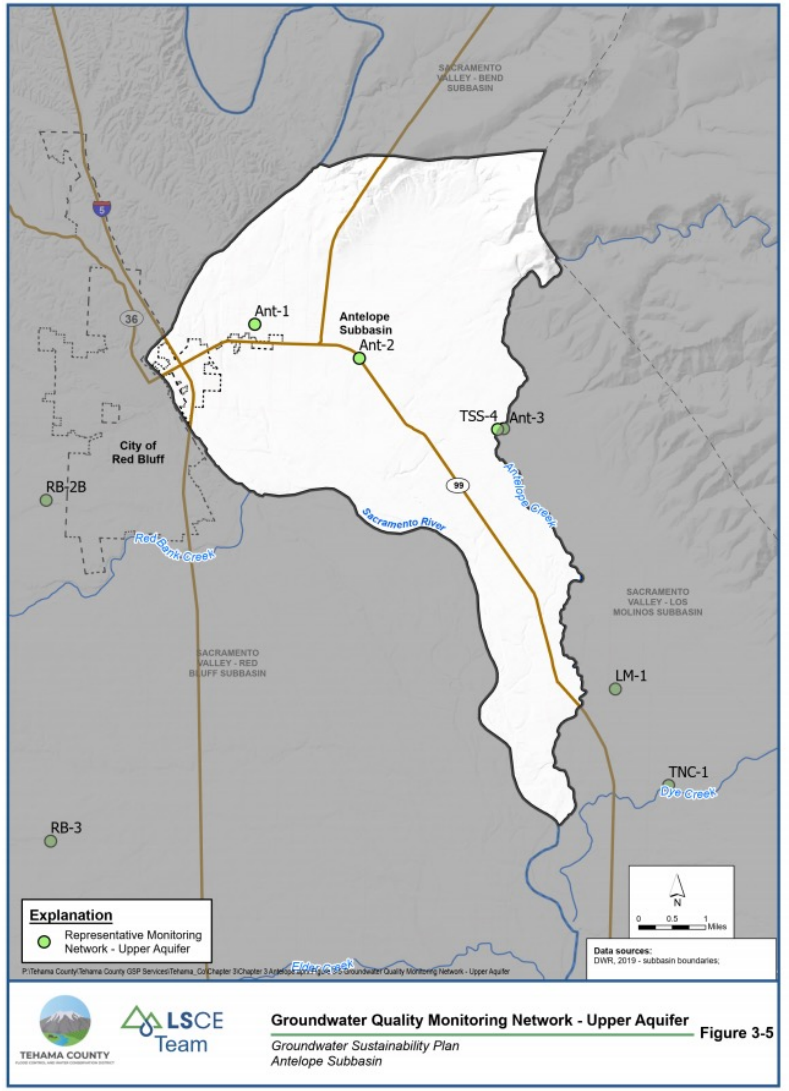


Degradation of Water Quality

Sustainability Indicator	Minimum Threshold	Measurable Objective	Undesirable Result
Degraded Water Quality	Upper & Lower Aquifer: TDS concentration of 750 mg/L at all RMS wells	Upper & Lower Aquifer: California lower limit secondary MCL concentration for TDS of 500 mg/L measured at RMS wells	At least 25% of RMS exceed the MT for water quality for 2 consecutive years at each well where it can be established that GSP implementation is the cause of the exceedance

Table 3-10. Minimum Thresholds Measurable Objectives and Interim Milestones for Groundwater Quality

Well Name	Interim Milestone 5 Years (TDS mg/L)	Interim Milestone 10 Years (TDS mg/L)	Interim Milestone 15 Years (TDS mg/L)	Measurable Objective (TDS mg/L)	Minimum Threshold (TDS mg/L)
Ant-1	687.5	625	562.5	500	750
Ant-2	687.5	625	562.5	500	750
Ant-3	687.5	625	562.5	500	750
TSS-4	687.5	625	562.5	500	750



Land Subsidence

TEHAMA COUNTY
Flood Control and Water Conservation District

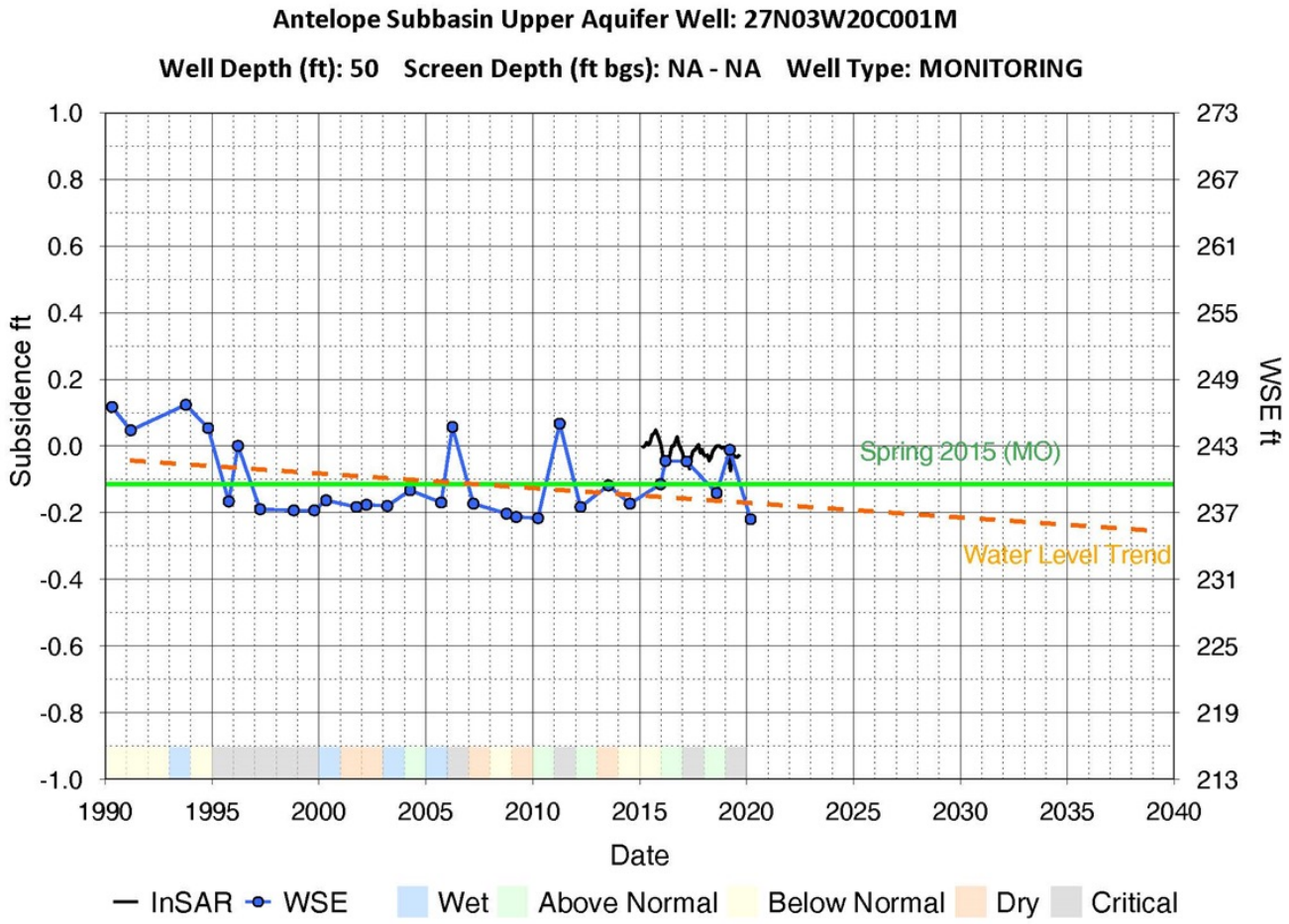
- Historically, Tehama County has experienced minor levels of subsidence

- Typically (Not the case in Tehama County), in areas near significant infrastructure minimal amounts of additional subsidence could be significant and unreasonable due to the susceptibility of infrastructure to subsidence



Land Subsidence

TEHAMA COUNTY
Flood Control and Water Conservation District



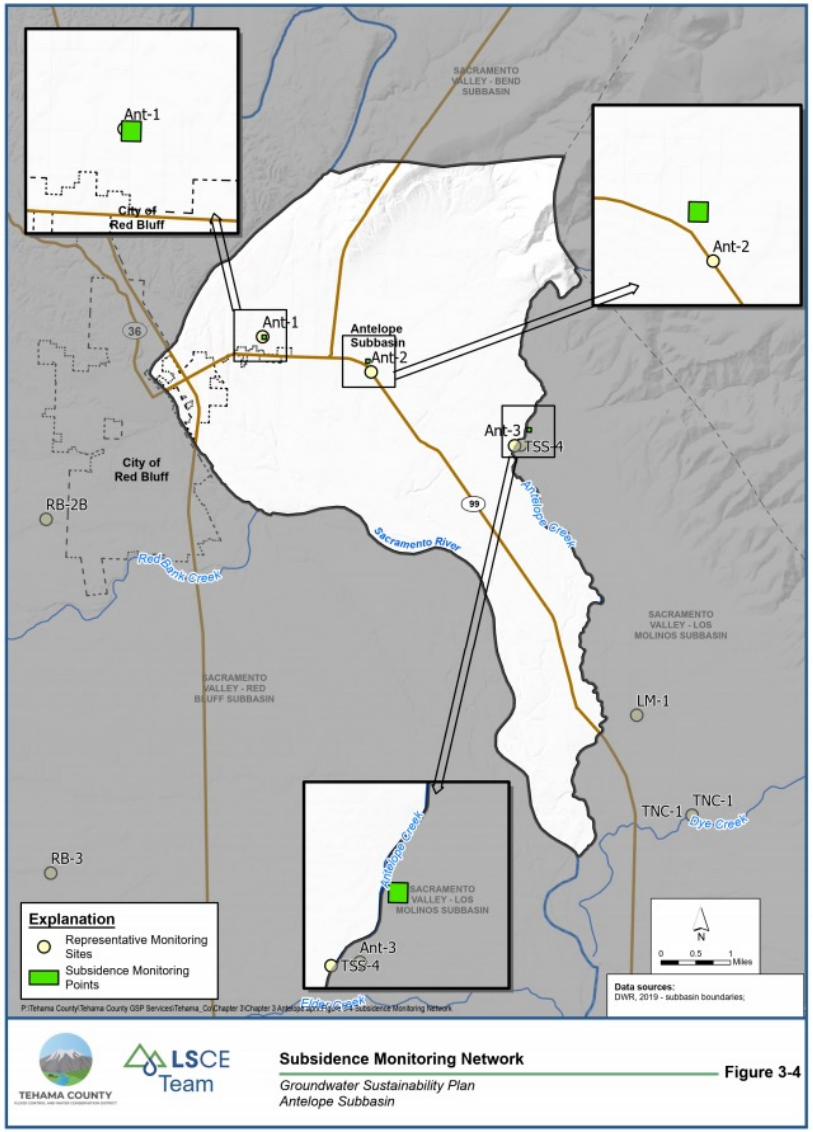
Land Subsidence

TEHAMA COUNTY
Flood Control and Water Conservation District

Sustainability Indicator	Minimum Threshold	Measurable Objective	Undesirable Result
Land Subsidence	Two feet over 20 years (i.e., no more than 0.5 feet of cumulative subsidence over a five-year period (beyond the measurement error), solely due to lowering of groundwater elevations	One foot over 20 years (Zero inelastic subsidence, in addition to any measurement error). If InSAR data are used, the measurement error is 0.1 feet and any measurement 0.1 feet or less would not be considered inelastic subsidence	50% of RMS exceed the MT over a 5-year period that is irreversible and is caused by lowering of groundwater elevations

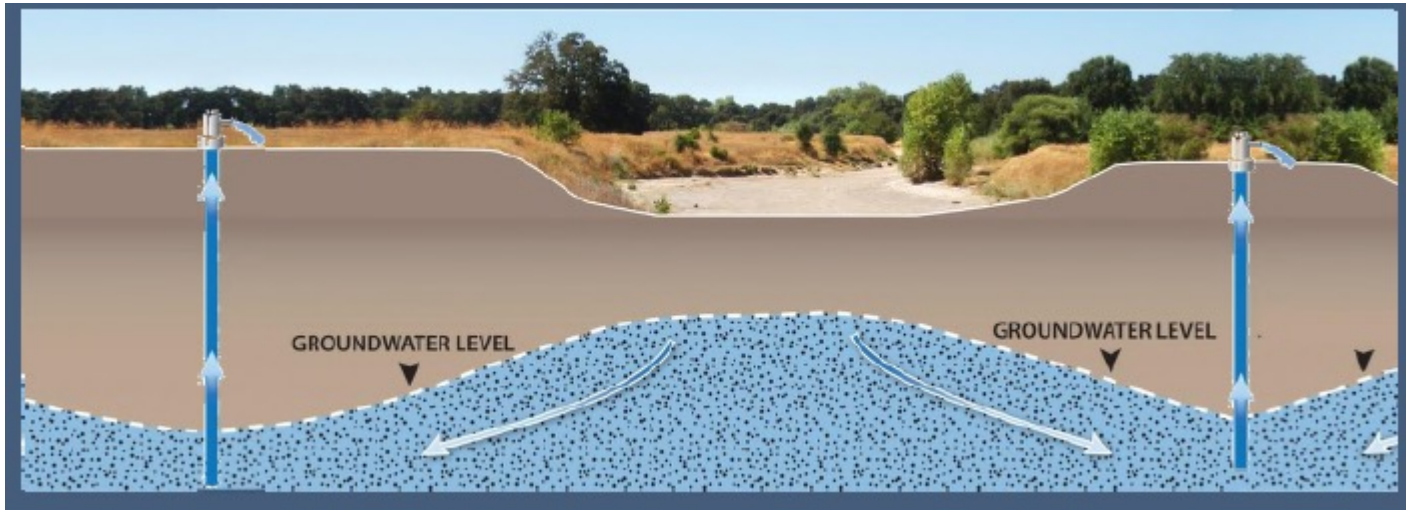
Table 3-9. Measurable Thresholds and Interim Milestones for Subsidence

InSAR Pixel	Interim Milestone 5 Years (ft)	Interim Milestone 10 Years (ft)	Interim Milestone 15 Years (ft)	Measurable Objective (ft)	Minimum Threshold (ft)
DU2S366	-1.75	-1.5	-1.25	-1.0	-2.0
DUEOR7Y	-1.75	-1.5	-1.25	-1.0	-2.0
DUAIPYT	-1.75	-1.5	-1.25	-1.0	-2.0
DUBPL7R	-1.75	-1.5	-1.25	-1.0	-2.0



Depletion of Inter-Connected Surface Water

- Lowered groundwater table (from pumping) impacts groundwater dependent ecosystems
- Areas where DTW>30 feet bgs are not considered GDEs
- Areas where DTW <30 feet are considered GDEs



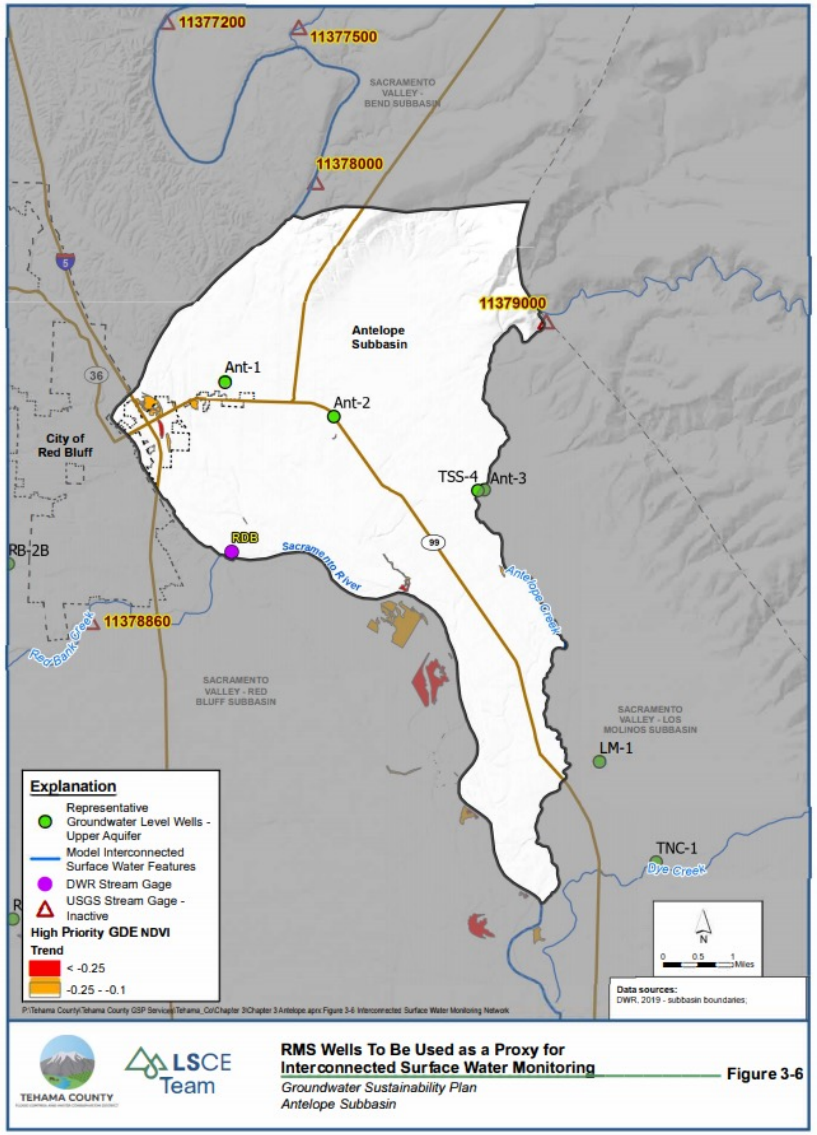
Depth to Water (DTW)
Below Ground Surface (BGS)
Groundwater Dependent Ecosystems (GDE)

Depletion of Inter-Connected Surface Water

Sustainability Indicator	Minimum Threshold	Measurable Objective	Undesirable Result
Depletion of Interconnected Surface Water	Same as chronic lowering of	Same as chronic lowering of	25% of groundwater elevations measured at RMS wells drop below the associated threshold

Table 3-11. Interim Minimum Thresholds and Interim Milestones for Interconnected Surface Water Depletions

Well Name	SWN	Interim Milestone 5 Years (ft NAVD88)	Interim Milestone 10 Years (ft NAVD88)	Interim Milestone 15 Years (ft NAVD88)	Measurable Objective (ft NAVD88)	Minimum Threshold (ft NAVD88)
Ant-1	27N03W16K003M	203.07	212.72	222.37	232.03	193.43
Ant-2	27N03W23D001M	193.63	205.82	218.01	230.2	181.43
Ant-3	27N02W30C003M	203.49	214	224.51	235.02	193



GSP Chapter 4 Projects and Management Actions

TEHAMA COUNTY
Flood Control and Water Conservation District

- Projects and management actions may have to be developed to address sustainability goals, measurable objectives, and undesirable results within each of the subbasins in Tehama County, with a view towards reducing the potential socioeconomic impacts associated with actions required to sustainability manage the Subbasins.
- Potential PMAs may fall under several categories, including but not limited to the following:
  - Recharge projects
  - Supply augmentation projects
  - Water conservation projects
  - Projects to reduce non-beneficial consumptive use
  - Groundwater pumping allocations
  - Monitoring programs (groundwater pumping, water levels, stream flows, etc.)

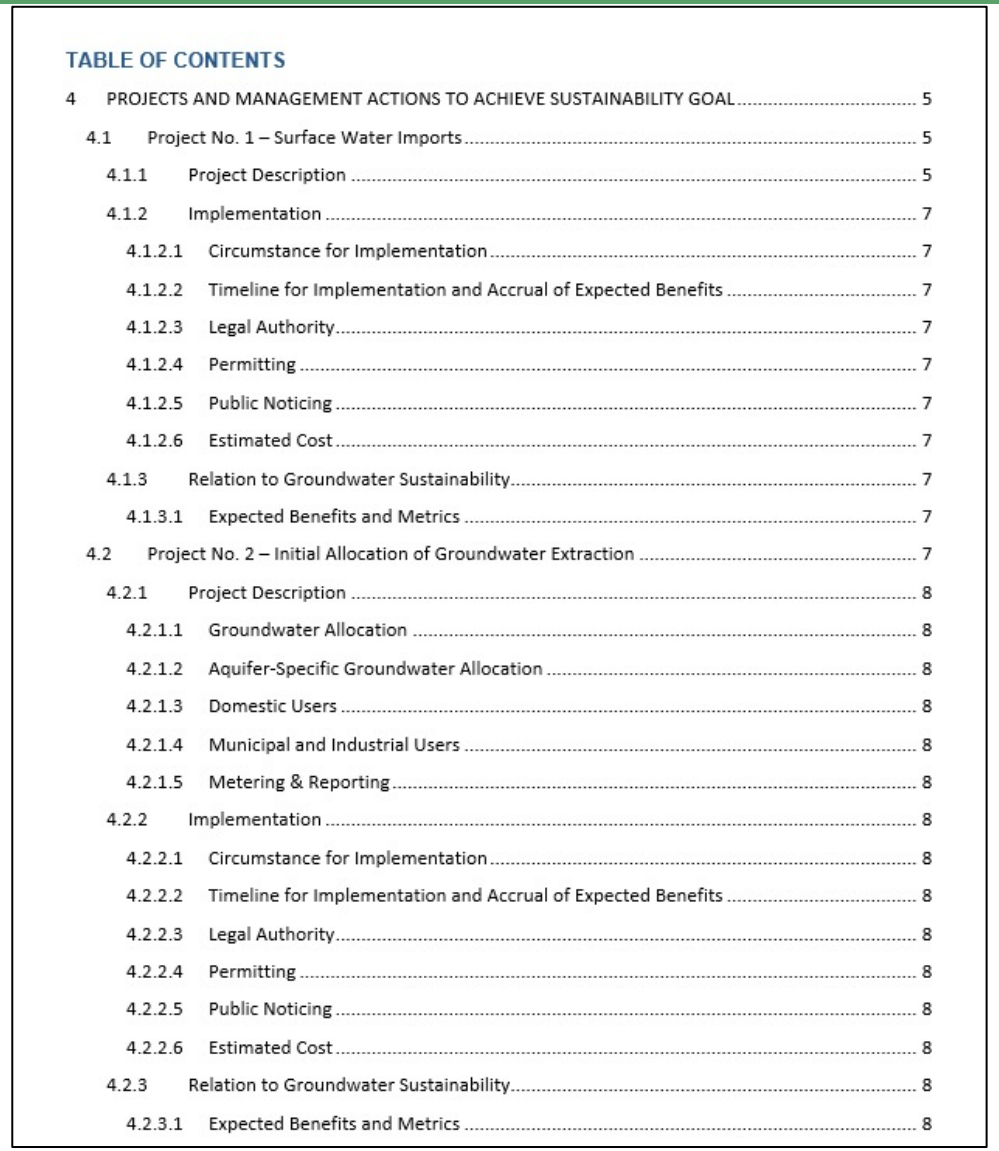


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GSP Chapter 4 Projects and Management Actions

TEHAMA COUNTY
Flood Control and Water Conservation District

WY Type	Cottonwood				Mill				Deer				Antelope				Elder				Thomes			
	Dec	Jan	Feb	Mar	Dec	Jan	Feb	Mar	Dec	Jan	Feb	Mar	Dec	Jan	Feb	Mar	Dec	Jan	Feb	Mar	Dec	Jan	Feb	Mar
W	990	1030	1000	1160	1010	1000	770	900	1090	1100	850	1080	1020	980	770	960	810	870	810	930	900	960	880	1010
AN	700	780	640	540	550	630	680	430	590	610	670	360	470	600	640	410	580	710	780	310	680	770	860	380
BN	140	270	330	220	80	300	410	410	70	210	410	340	70	230	370	310	110	270	210	170	130	300	230	200
D	260	160	110	270	200	140	150	280	250	90	100	250	180	100	120	250	210	180	110	230	250	190	110	280
C	300	100	90	70	190	50	80	120	60	40	50	60	50	20	20	20	230	80	100	130	290	80	110	150
All Years	560	560	530	580	510	520	470	510	530	530	490	540	480	490	450	490	460	490	460	460	520	540	500	520

GSP Chapter 4 Projects and Management Actions

TEHAMA COUNTY
Flood Control and Water Conservation District

PROJECT/MANAGEMENT ACTION TYPE	SUSTAINABILITY INDICATORS EXPECTED TO DIRECTLY BENEFIT				
	GROUNDWATER LEVELS	GROUNDWATER STORAGE	WATER QUALITY	SURFACE WATER DEPLETION	LAND SUBSIDENCE
Coordination and Data Sharing	-[1]	-[1]	-[1]	-[1]	-[1]
Direct Groundwater Recharge	X	X		X	X
Education/Outreach	X	X	X	X	X
Groundwater Demand Reduction	X	X		X	X
In-Lieu Groundwater Recharge	X	X		X	X
Monitoring to Fill Data Gaps	-[1]	-[1]	-[1]	-[1]	-[1]
Programs to Support Wells[1]	-[2]	-[2]	-[2]	-[2]	
Surface Water Supply Augmentation	X	X		X	X
Well Permitting Ordinances	X	X	X	X	X

Table 8-4. Sustainability Indicators Expected to Benefit from Projects and Management Action Types Proposed for the Antelope Subbasin.

[1] Coordination, data sharing, and monitoring to fill data gaps are beneficial to GSP implementation and tracking progress toward the Subbasin sustainability goal. However, there are no anticipated direct benefits to specific sustainability indicators.

[2] Programs designed to support wells (e.g., well tracking, well deepening or replacement) are beneficial for monitoring and addressing any potential impacts to those beneficial uses and users of groundwater during GSP implementation. However, there are no anticipated direct benefits to specific sustainability indicators.

GSP Chapter 5 GSP Implementation

TEHAMA COUNTY
Flood Control and Water Conservation District

- GSP implementation, administration and management
- Implementation of the monitoring program
- Reporting, including annual reports and 5-year evaluations and updates
- Implementation of adaptive management strategies
- Funding

	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042
Reporting																					
Groundwater Level Monitoring	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Water Quality Reporting	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Pump Metering	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Land Subsidence Monitoring	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Operations & Maintenance																					
Data Management System	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Groundwater Model Update	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
DWR Reporting	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Project Management & Coordination																					

● Occurs once a year

● Occurs twice a year

● Occurs monthly

Ongoing

*All monitoring is reported on an annual basis

Other Activities– Financial Assurance Plan

The GSA intends to include a financial strategy as part of the 2022 GSP that provides sustainable GSA funding mechanisms to facilitate local control of groundwater resources.

1. Long Term GSA Funding
2. Long Term GSP Project Funding
3. Funding Options
4. Financial Assurance Plan
5. Post-GSP: GSA is financially sustainable

GSP Development & Public Input Opportunities

TEHAMA COUNTY
Flood Control and Water Conservation District

May

Sustainable Management Criteria and Monitoring Network

Regular GSA meetings*

June–July

Projects & Management Actions

GSP Implementation Plan

Public Workshops

Regular GSA meetings*

August

Administrative Draft GSPs in development

Regular GSA meetings*

September

Draft GSPs available for review and comment

Access via websites

Regular GSA meetings*

November

Public Workshops

Regular GSA meetings*

December

Public Hearings for adoption of Final GSPs

Regular GSA meetings*

January

Final GSPs submitted to the State

Regular GSA meetings*

** Regular GSA meetings: Groundwater Commission, District Board, and Corning Subbasin Advisory Board (CSAB)*

How to Stay Involved and Provide Input

TEHAMA COUNTY
Flood Control and Water Conservation District

EMAIL UPDATES

Sign Up for the interested parties email list and/or to receive meeting agendas - contact nbethurem@tcpw.ca.gov

QUARTERLY NEWSLETTER

Sign Up for the interested parties email list

REGULAR MEETINGS

Groundwater Commission Meetings | 4th Wednesdays @ 8:30a*

Regular meetings: September 22 at 8:30 AM

District Board Meetings | 3rd Monday, every other month @ 11:00a | Next meeting Sep 20

Corning Subbasin Advisory Board Meetings | 1st Wednesdays @ 1:30p | Next meeting Sep 1

PUBLIC MEETINGS

5th Webinar / Meeting – Fall 2021

Draft GSP webinar & workshop

WEBSITE: DRAFT GSP SECTIONS

Review drafts / submit comments via TehamaCountyWater.org CorningSubbasinGSP.org

SURVEYS

Domestic Well Owner: www.surveymonkey.com/r/TehamaSGMA_WellOwners

TEHAMA COUNTY
FLOOD CONTROL AND WATER CONSERVATION DISTRICT

How best can we connect with you?

Let us know in the Chat Box

- Websites - TehamaCountyWater.org and CorningSubbasinGSP.org
- Email (subscribe to our mailing list - contact nbethurem@tcpw.ca.gov)
- eNewsletter (quarterly)
- Social media (which platforms?)
- Paper Mail
- Direct Call
- Newspaper
- Radio
- Public Workshops and Meetings
- Neighborhood hubs for sign postings (specific locations?)
- Other Suggestions?