

Groundwater Sustainability Program Update Agenda Item 5

April 7, 2022

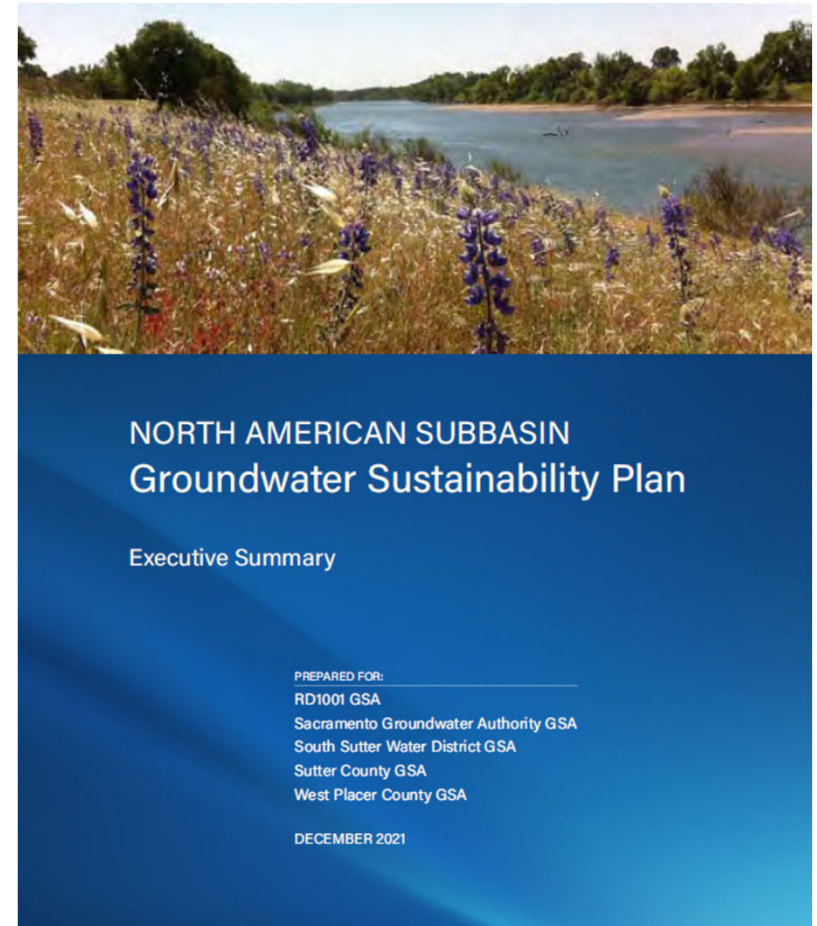


GSP Status

- GSP Submitted January 24, 2022
- Public Comments close
April 16, 2022
- DWR has up to 2 years to review GSP

GSP available at:
nasbgroundwater.org

Comments available at:
<https://sgma.water.ca.gov/portal/gsp/comments/100>



Annual Report

- Hydrology
- Water Use
- Groundwater Levels
- Groundwater Storage
- GSP Implementation
- Sustainability Indicators

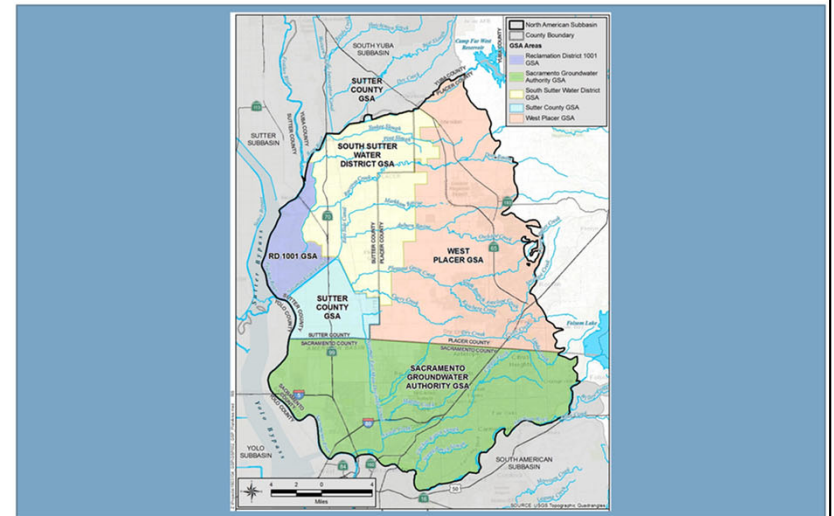


Consulting
Engineers and
Scientists

Water Year 2021

Annual Report for the North American Subbasin

March 2022

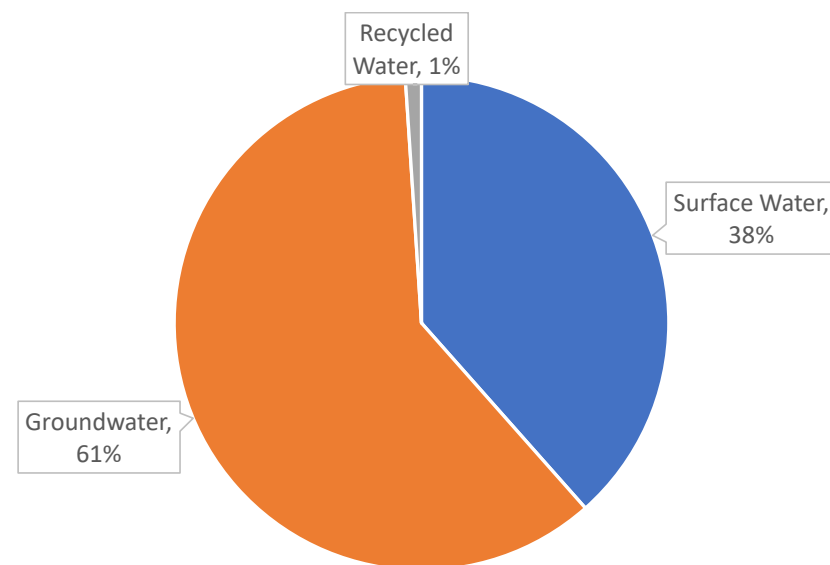


Prepared for the North American Subbasin GSAs:

RD1001
Sacramento Groundwater Authority
South Sutter Water District
Sutter County
West Placer

2021 Water Use by Source

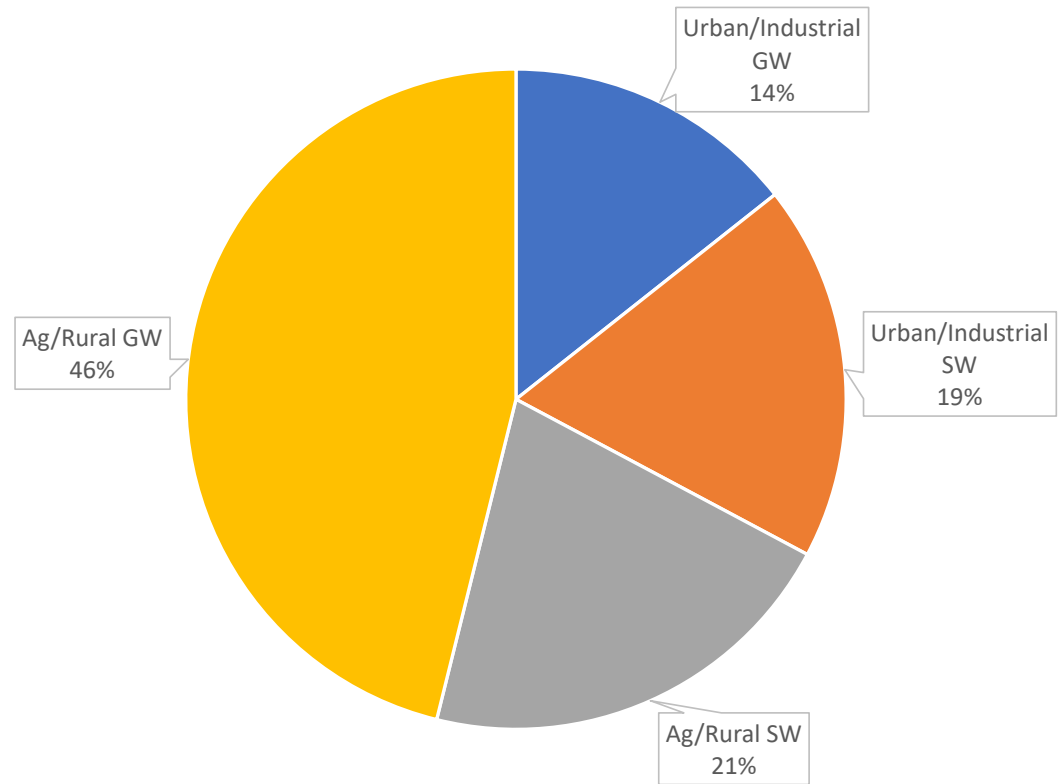
Month	Groundwater (AF)	Surface Water (AF)	Recycled Water (AF)	Total (AF)
Oct-2020	38,300	20,200	520	59,020
Nov-2020	21,300	12,400	200	33,900
Dec-2020	10,900	7,200	120	18,220
Jan-2021	5,500	4,800	40	10,340
Feb-2021	7,600	4,700	20	12,320
Mar-2021	9,900	6,100	100	16,100
Apr-2021	27,900	18,600	710	47,210
May-2021	64,700	41,600	780	107,080
Jun-2021	61,400	37,200	1,030	99,630
Jul-2021	55,000	44,500	1,170	100,670
Aug-2021	54,600	30,700	1,060	86,360
Sep-2021	24,200	14,400	850	39,450
Total WY 2021	381,300	242,400	6,600	630,300

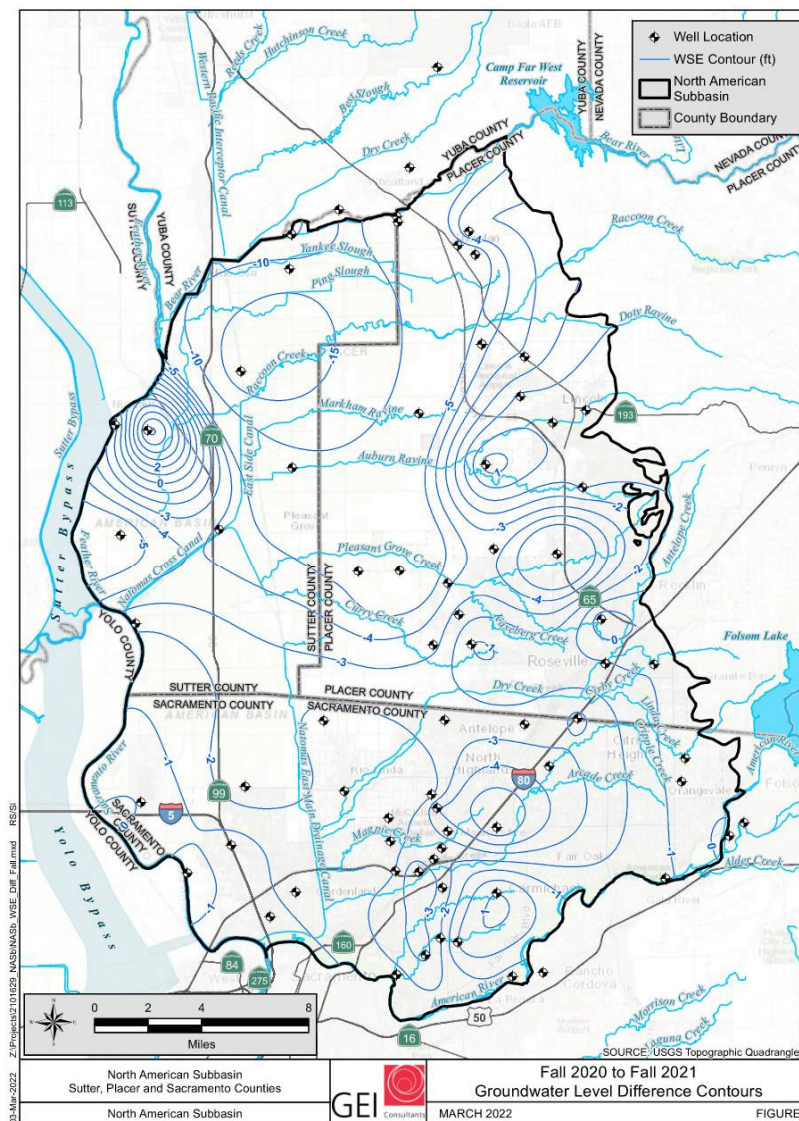
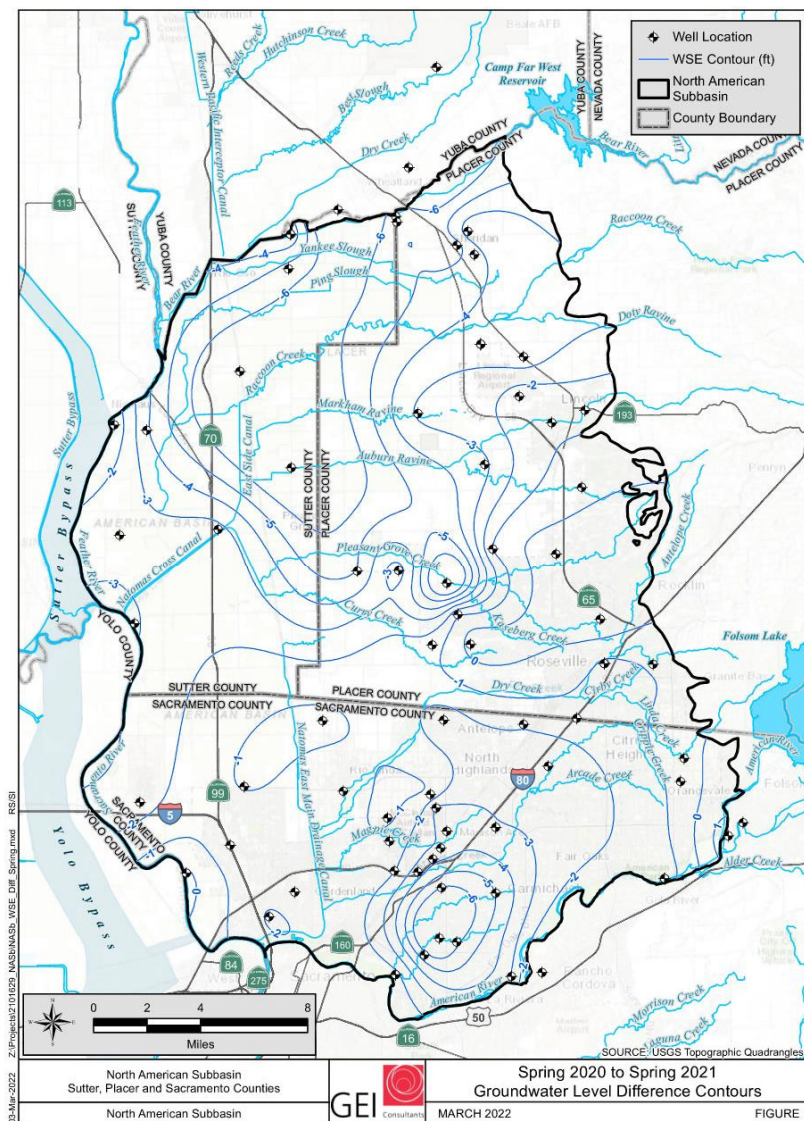


Urban/Industrial Sector				
Month	Groundwater	Surface Water	Recycled Water	Total
	(AF)	(AF)	(AF)	(AF)
Oct-2020	9,000	11,500	370	20,870
Nov-2020	6,600	7,200	180	13,980
Dec-2020	4,600	5,600	50	10,250
Jan-2021	4,300	4,800	40	9,140
Feb-2021	4,200	4,400	20	8,620
Mar-2021	5,100	6,100	70	11,270
Apr-2021	6,400	9,500	350	16,250
May-2021	8,600	11,900	500	21,000
Jun-2021	10,700	13,300	680	24,680
Jul-2021	10,700	13,900	710	25,310
Aug-2021	10,900	12,700	660	24,260
Sep-2021	9,400	11,200	480	21,080
Total WY 2021	90,500	112,100	4,110	206,710

Agricultural/Rural Sector				
Month	Groundwater	Surface Water	Recycled Water	Total
	(AF)	(AF)	(AF)	(AF)
Oct-2020	29,300	8,700	150	38,150
Nov-2020	14,700	5,200	20	19,920
Dec-2020	6,300	1,600	70	7,970
Jan-2021	1,200	-	-	1,200
Feb-2021	3,400	300	-	3,700
Mar-2021	4,800	-	30	4,830
Apr-2021	21,500	9,100	360	30,960
May-2021	56,100	29,700	280	86,080
Jun-2021	50,700	23,900	350	74,950
Jul-2021	44,300	30,600	460	75,360
Aug-2021	43,700	18,000	400	62,100
Sep-2021	14,800	3,200	370	18,370
Total WY 2021	290,800	130,300	2,490	423,590

2021 Water Use by Sector





Change in Groundwater Storage

Change in Storage Using Water Level Difference Contour Surfaces

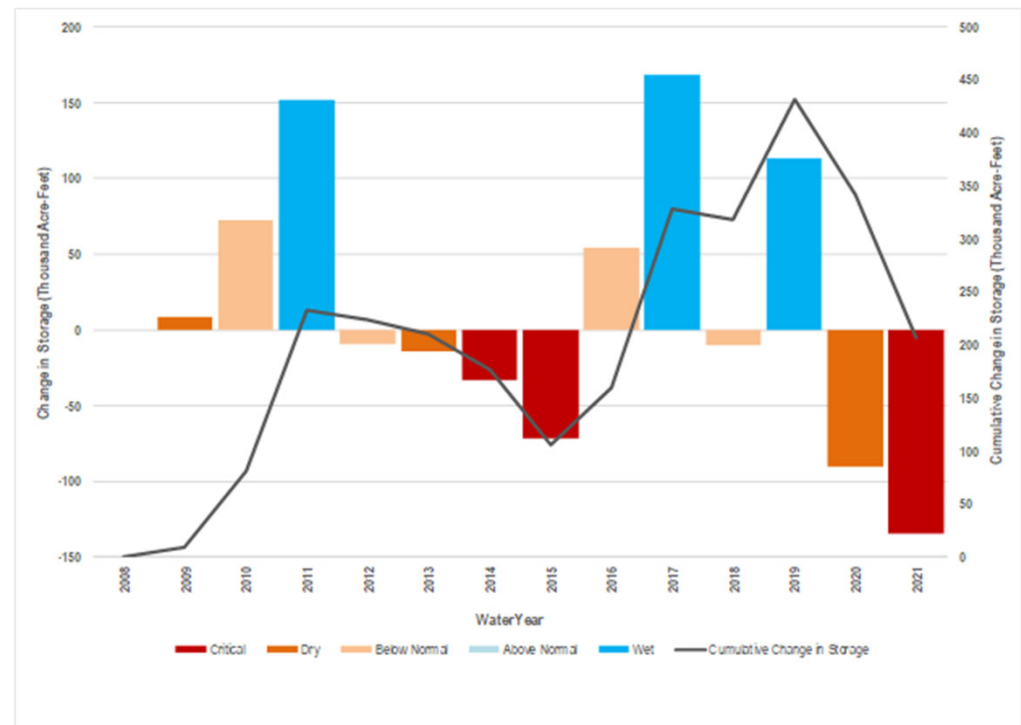
	Basin Area (acres)	Average Water level change (ft)	Average Specific Yield ¹ (unitless)	Change in Storage (AF) ^{2,3}
Spring 2020 - Spring 2021	342,516	-2.98	0.084	-85,700
Fall 2020 - Fall 2021	342,516	-3.84	0.084	-110,500

Notes:

¹ Calculated average Specific Yield from DWR SVSim Model

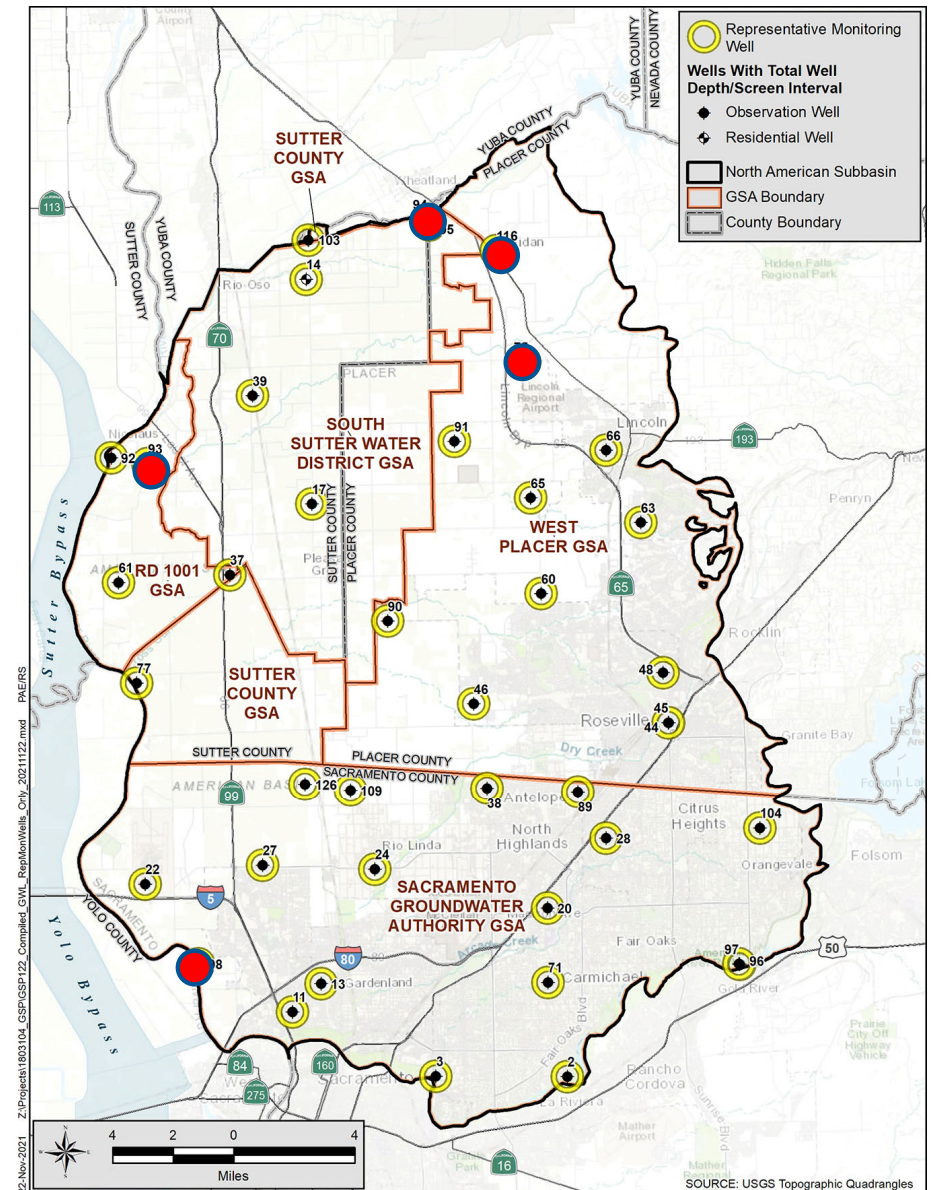
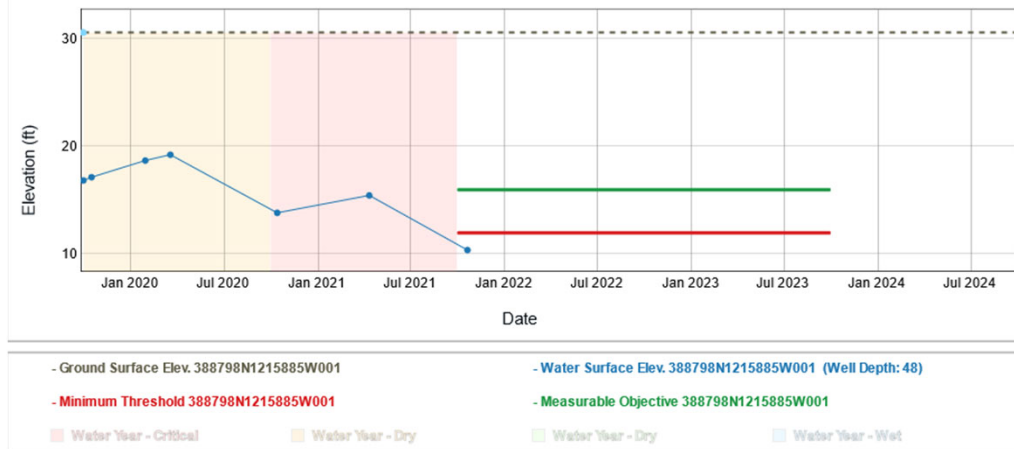
² Calculated as Area x Water level change x Specific Yield

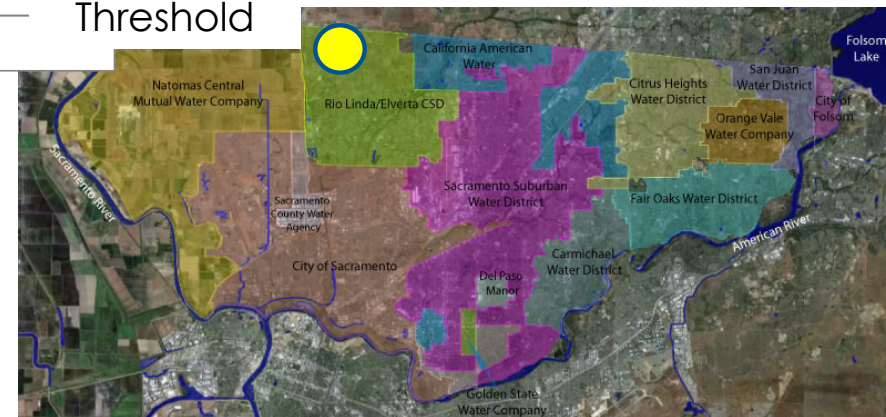
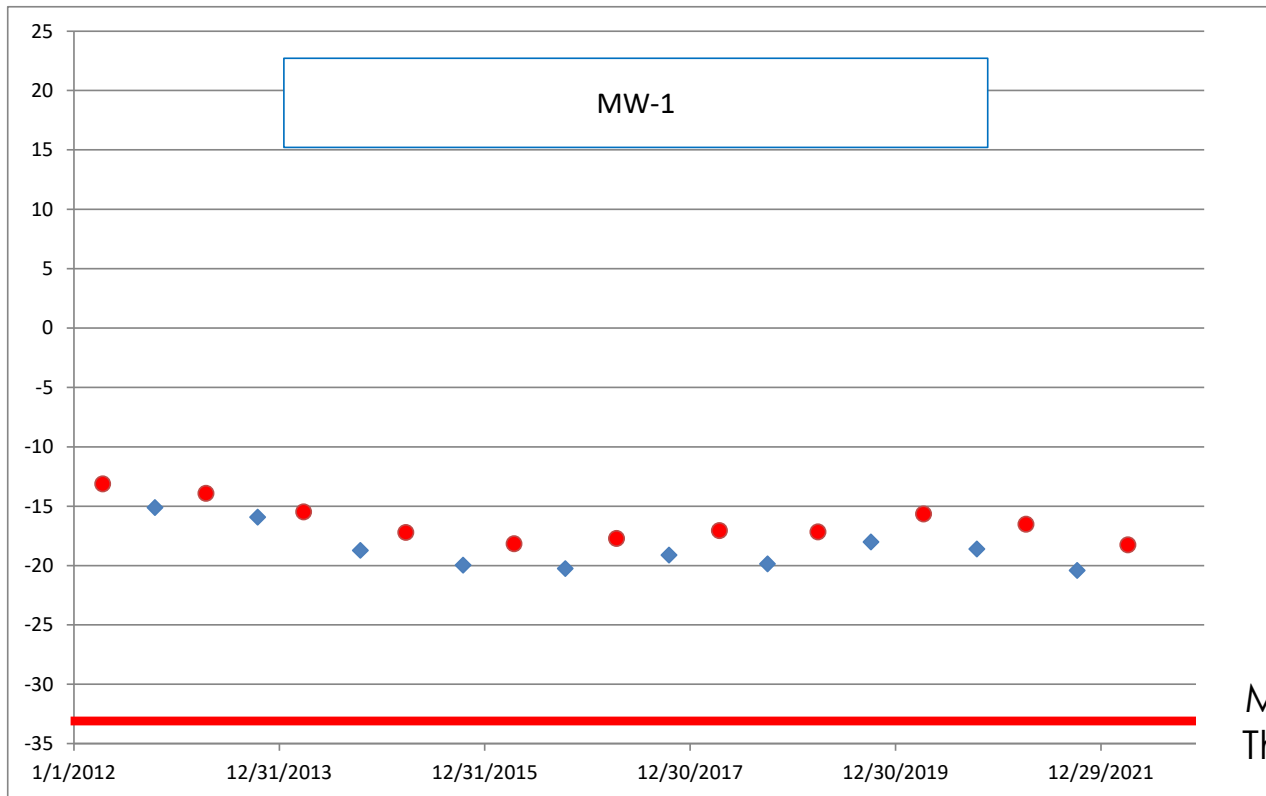
³ The total change in storage is rounded to the nearest 100 AF

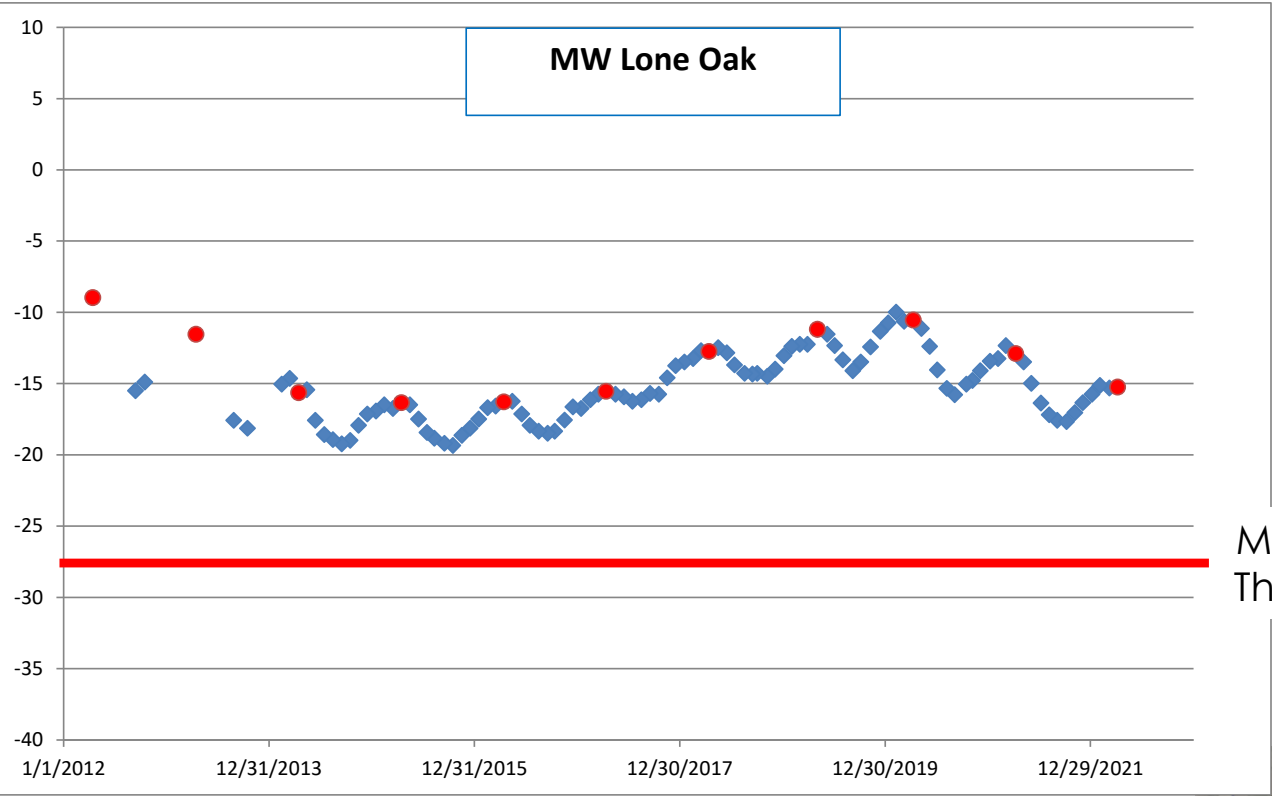


Water Level SMC

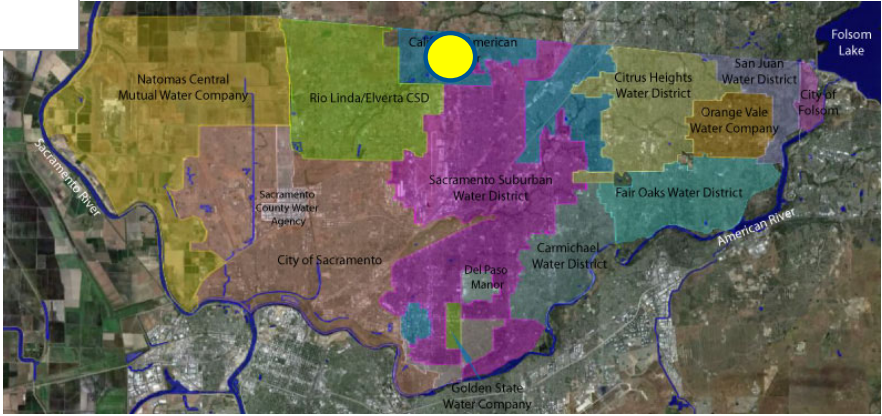
Groundwater Levels for Well 388798N1215885W001

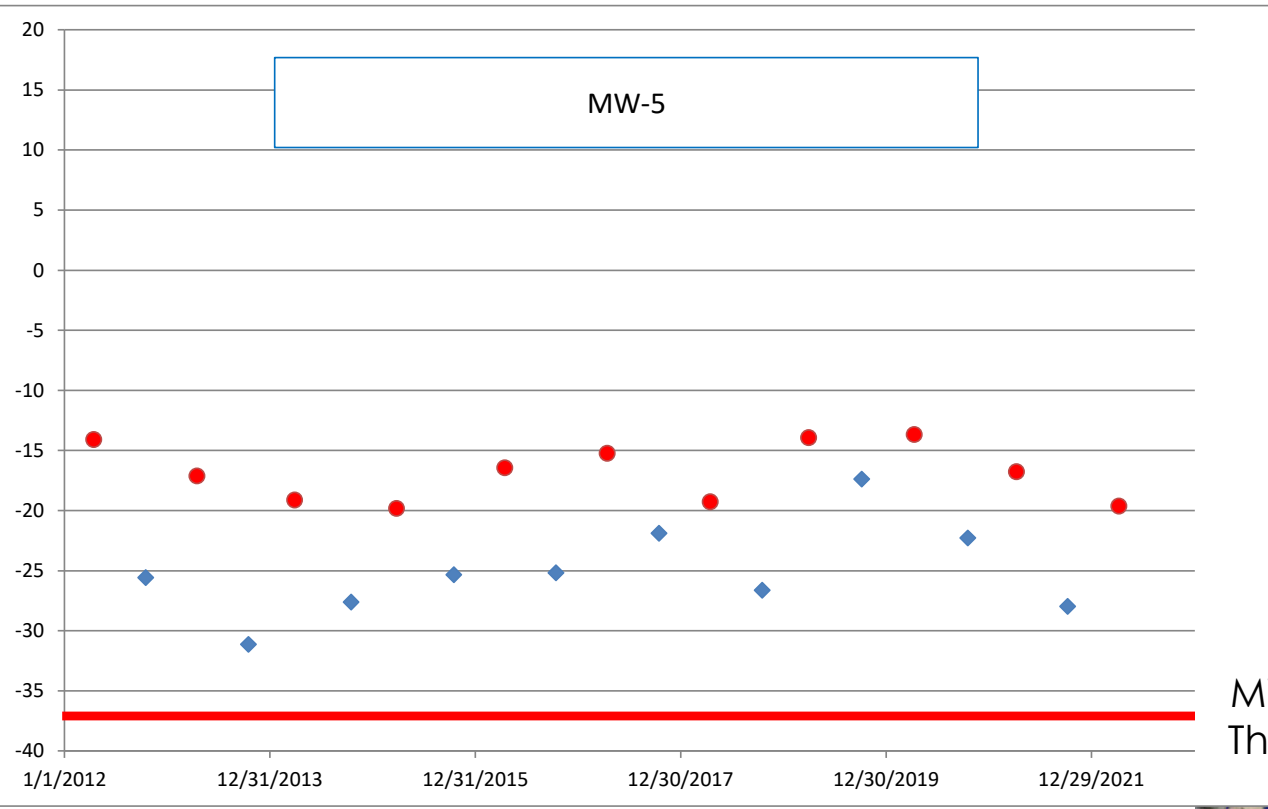




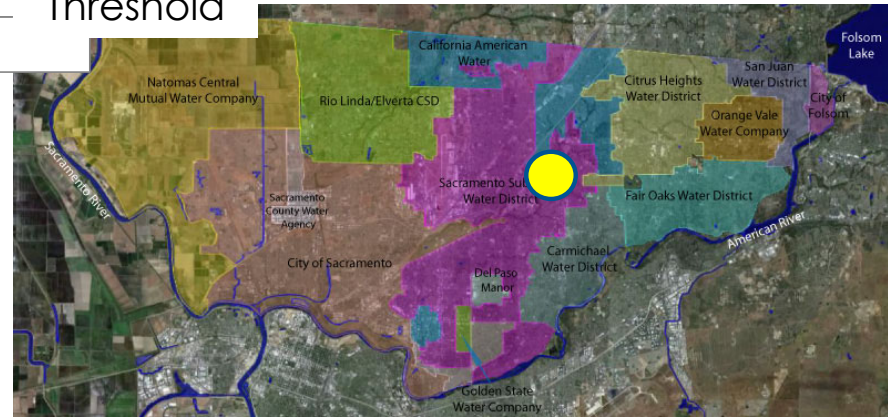


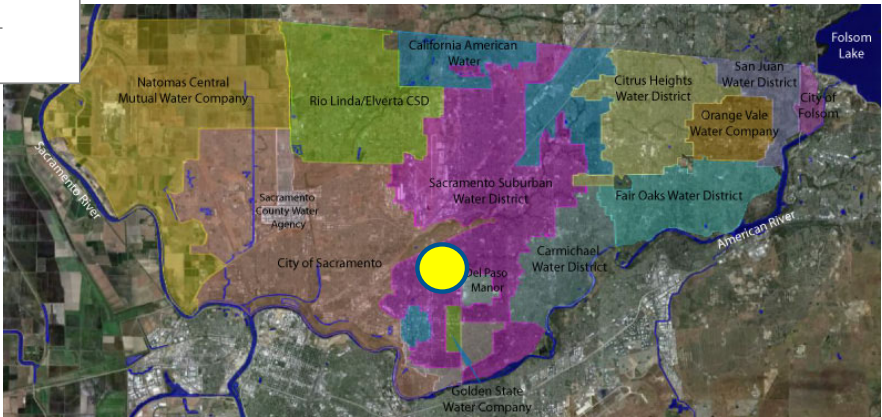
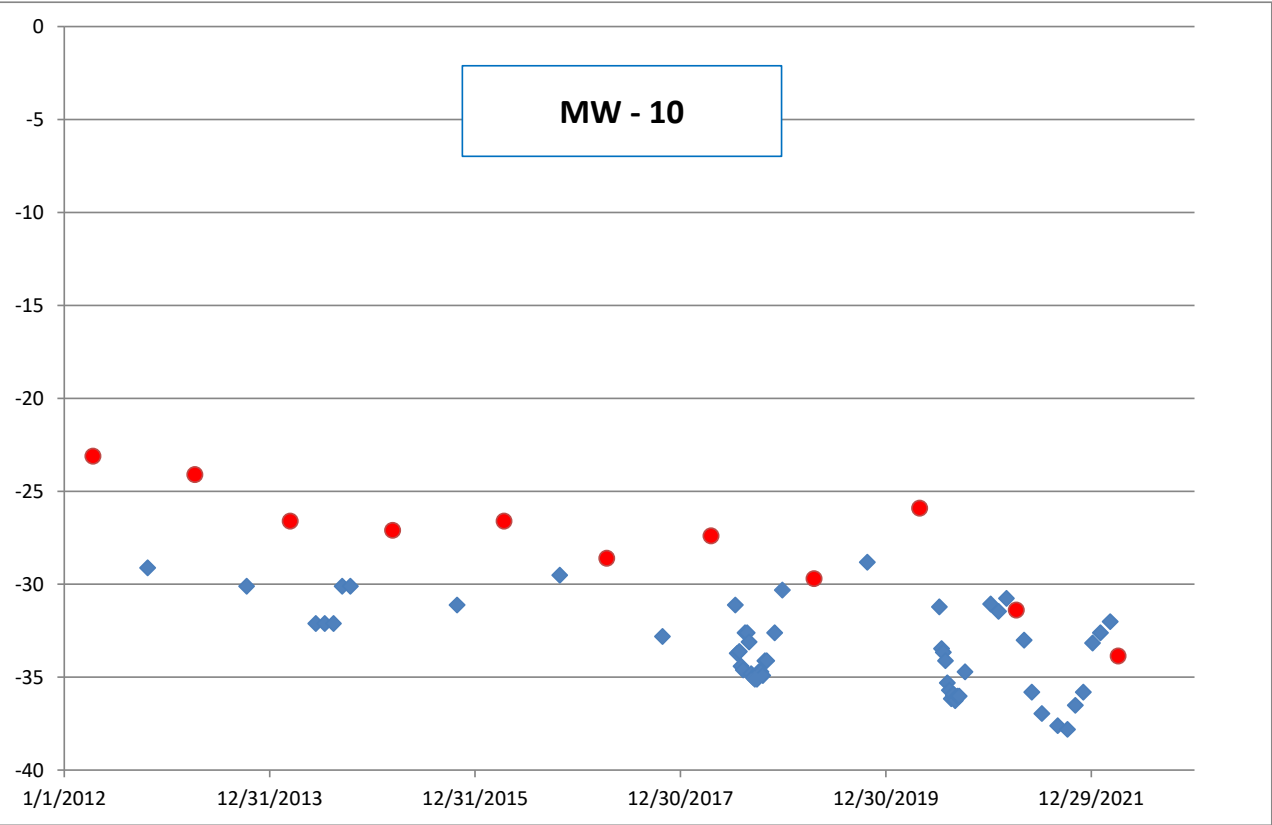
Minimum
Threshold

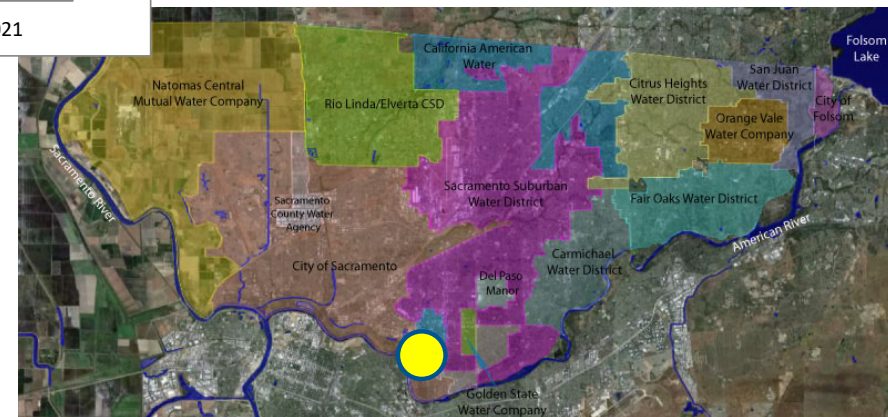
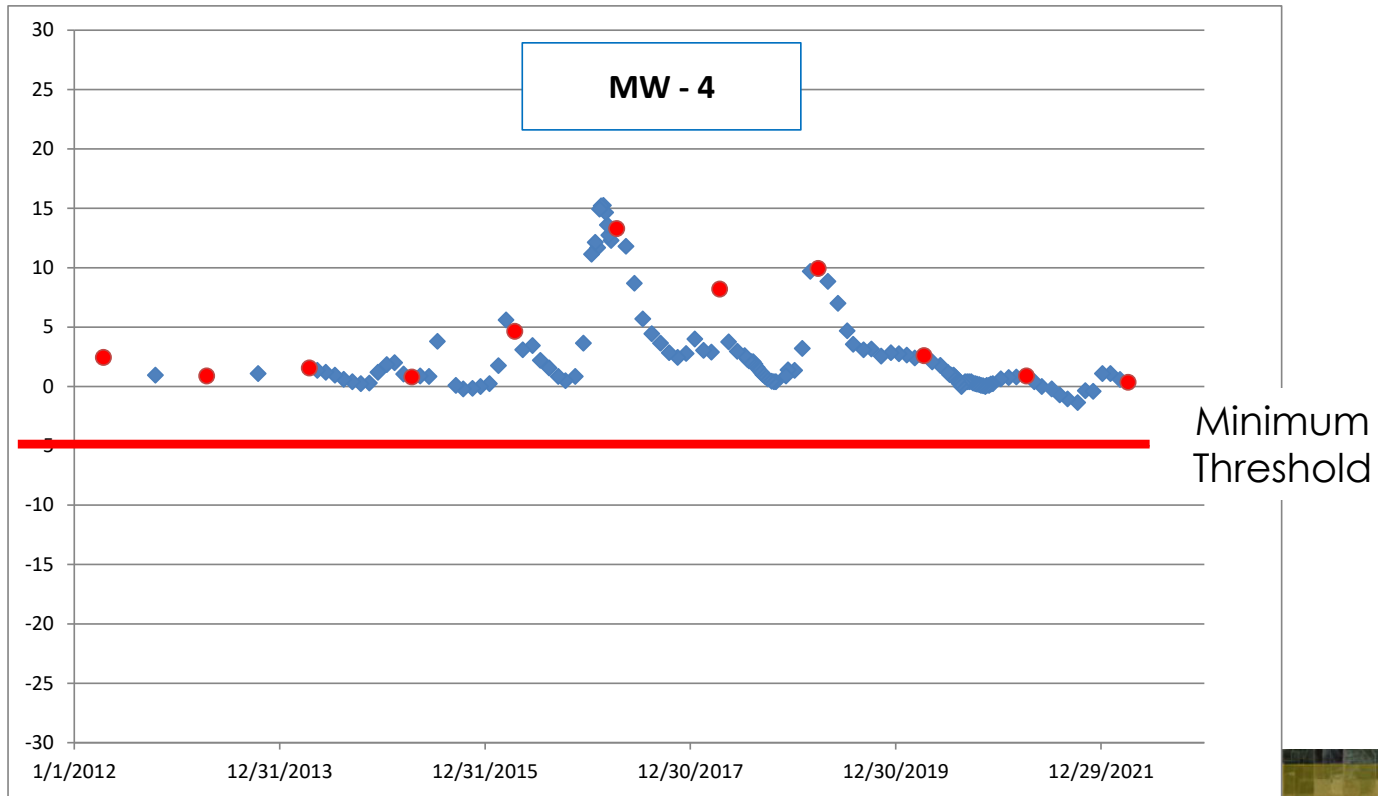


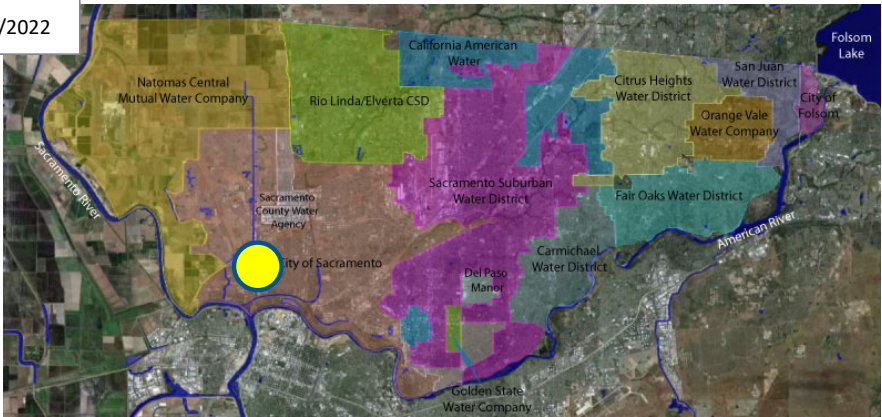
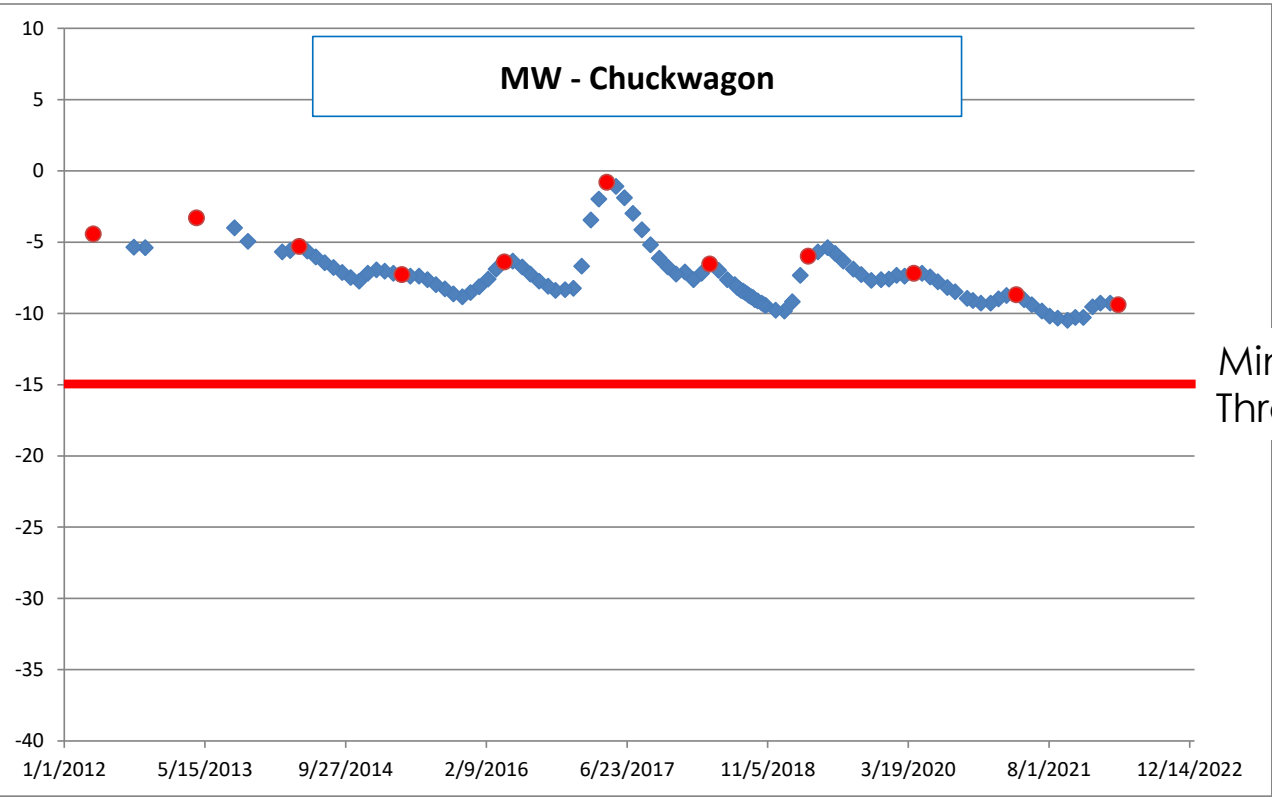


Minimum
Threshold









Questions/ Discussion

