Groundwater Sustainability Agencies
Corning Subbasin

Tehama County Flood Control and Water Conservation District

CORNING SUB-BASIN GSA

# Meeting Materials

**April 4, 2024 | 6:00 p.m.**

**In-Person Location:**

City of Corning Council Chambers
794 Third Street
Corning, CA 96021

Due to limited parking for Corning City Hall, meeting attendees are asked to park their vehicles in the parking lot across from City Hall, next to the railroad tracks.

Alternate Meeting Location:
1177 Magnolia Ave., Larkspur, CA 94939

**Remote Public Participation Option:**

Microsoft Teams meeting

**Join on your computer, mobile app or room device**

Click here to join the meeting

Meeting ID: 298 303 533 021

Passcode: WeUaQu

Download Teams | Join on the web

**Or call in (audio only)**

+1 323-676-6164,,42697869# United States, Los Angeles

Phone Conference ID: 426 978 69#

Find a local number | Reset PIN

Learn More | Meeting options

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## 1. Call to Order / Pledge of Allegiance - (Marisa Perez-Reyes, Stantec)

Independent Facilitator Marisa Perez-Reyes, Stantec, will call the meeting to order and the Pledge of Allegiance will be recited.

## 2. Period of Public Comment

Members of the public are encouraged to address the Corning Sub-basin GSA Committee and the Tehama County Flood Control and Water Conservation District on subject matter within the jurisdiction of the agencies. Public comment will be limited to three minutes. No action will be taken on items under public comment.

**3. Joint Meeting of the Corning Sub-basin Groundwater Sustainability Agency and the Tehama County Flood Control and Water Conservation District Groundwater Sustainability Agency**

**a. Roll Call and Introductions**

Staff will conduct roll call. A joint session of the Corning Sub-basin GSA (CSGSA) and Tehama County Flood Control and Water Conservation District (TCFCWCD) GSA will convene to make joint decisions for their shared management responsibilities of the Corning Groundwater Subbasin pursuant to the Sustainable Groundwater Management Act (SGMA).

**b. Receive an update on Corning Subbasin Groundwater Sustainability Plan draft revisions and schedule.**

On October 26, 2023, the Department of Water Resources (DWR) determined the Corning Subbasin GSP to be "incomplete" The GSAs have 180 days to address the deficiencies and resubmit the GSP for evaluation no later than April 23, 2024.

The consulting team, Luhdorff & Scalmanini Consulting Engineers (LSCE), are supporting the efforts to revise the Corning Subbasin GSP to address DWR's comments. LSCE will provide updates on the Corning Subbasin GSP Revision status and schedule for completion (see attached presentation). In the next items, LSCE will be looking for input and concurrence from the GSAs on specific components of the revision process, particularly related to determining minimum thresholds and sustainable management criteria for groundwater levels, and Resolutions showing commitment to implementing a well mitigation program and a demand management program.

**c. Discussion and concurrence on revisions to Corning Subbasin Groundwater Level Sustainable Management Criteria.**

LSCE will present information on the proposed revisions to the Corning Subbasin Groundwater Level Sustainable Management Criteria (SMC) that have been prepared for the draft Revised Corning Subbasin Groundwater Sustainability Plan. More details are contained in the attached presentation and Groundwater Level SMC data package.

Recommendation: Discuss groundwater level SMC and reach concurrence on content to include in draft Revised Corning Subbasin GSP.

**d. Approve Resolution committing to a Well Mitigation Program for the Corning Subbasin**

**i. *CSGSA Action: Adopt Resolution No. 2024-01 Establishing A Well Mitigation Program for the Corning Subbasin.**

**ii. *TCFCWCD Action: Adopt Resolution No. 1-2024 Establishing A Well Mitigation Program for the Corning Subbasin.**

LSCE and GSA staff will discuss the proposed commitment to a Corning Subbasin Well Mitigation Program and accompanying Resolution (see attached).

Recommendation: Each GSA adopt a Resolution establishing a Well Mitigation Program for the Corning Subbasin to include in the draft Revised Corning Subbasin GSP.

**e. Approve Resolution committing to a Demand Management Program for the Corning Subbasin**

**i. *CSGSA Action: Adopt Resolution No. 2024-02 Establishing a Demand Management Program for the Corning Subbasin.**

**ii. *TCFCWCD Action: Adopt Resolution No. 2-2024 Establishing a Demand Management Program for the Corning Subbasin**.

LSCE and GSA staff will discuss the proposed commitment to a Corning Subbasin Demand Management Program and accompanying Resolution (see attached).

Recommendation: Each GSA adopt a Resolution establishing a Demand Management Program for the Corning Subbasin to include in the draft Revised Corning Subbasin GSP.

Attachments:

- GSP Revision Status Presentation
- Corning Subbasin SMC Data Package
- Resolutions: Well Mitigation Program for the Corning Subbasin (CSGSA, Tehama County FCWCD)
- Resolutions: Demand Management Program for the Corning Subbasin (CSGSA, Tehama County FCWCD)

# GSP Revision and Implementation Status

Corning Sub-basin GSA & Tehama County FCWCD Special Meeting

CORNING SUB-BASIN GSA

TEHAMA COUNTY
FLOOD CONTROL AND WATER CONSERVATION DISTRICT

April 4, 2024

Luhdorff & Scalmanini
Consulting Engineers

## Corning Sub-basin Special Meeting Agenda

- Revised GSP Update
  - Review and Recommend Setting Revised Minimum Thresholds and Sustainable Management Criteria
    - Overview of CSAB (4/3) & CSGSA (3/28) Meeting Discussion
    - Special Zones (Dry wells and/or decreasing groundwater levels)
  - Overview of GSP Revisions
    - Chapter 6 – Sustainable Management Criteria
    - Chapter 7 – Projects and Management Actions
- GSP Comments and Adoption Schedule
  - Verbal Comments (Today)
  - Written Comments (4/7/2024)
  - Adoption Schedule (4/11/2024 & 4/15/2024)
  - GSP Final Upload to DWR (4/22/2024)

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# Overview of CSAB 4/3/2024 Meeting

- CSAB Comments
  - Approach
    - Special Zones
      - Dry Wells
      - Outside of Special Zones, 2020-2022 GWL, plus a buffer
  - Recommendations for Modifying MTs
  - Summary of Other Comments/Concerns

LSCE



# Overview of CSGSA 3/28/2024 Meeting

- CSGSA Comments
  - Approach
    - Special Zones
      - Dry Wells
      - Outside of Special Zones, 2020-2022 GWL, plus a buffer
  - Concerns About Lowering MTs below 2020 - 2022 GSP Levels
    - Inside Special Zones – Concerns
    - Outside of Special Zones - Concerns
  - Recommendations for Modifying MTs

LSCE

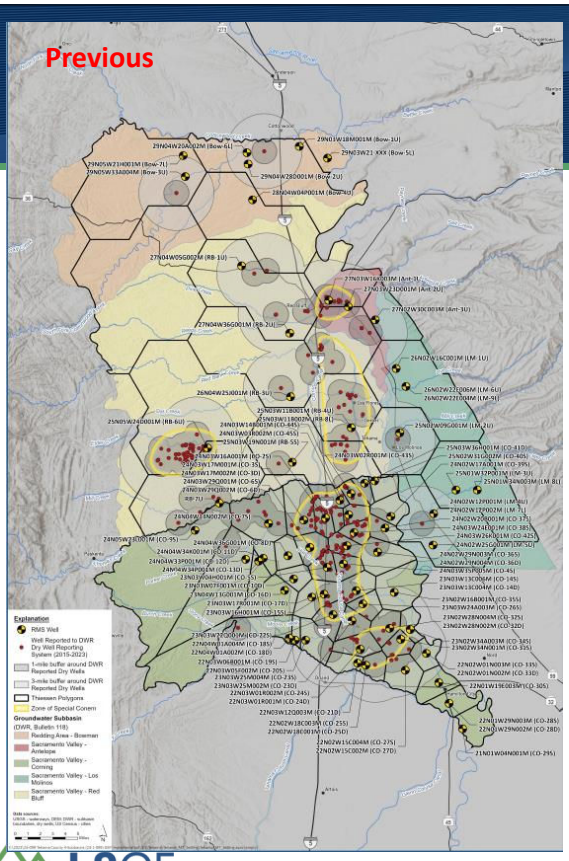
# Corning GSP – Revised Groundwater Level Minimum Threshold

- Overview
- Special Zones – Based on Dry Well Reporting or Based on Historical Declining Groundwater Levels
  - Dry wells within a polygon
  - Equal to or greater than 1.5 feet/year (period of record at RMP well)
- Minimum Thresholds
  - Within Special Zones – set to 2020-2022 lows
  - Outside Special Zones – set to 2020-2022 lows minus 20 feet
  - MT set at the lowest groundwater level between 2020-2022 or the MT from the original 2022 GSP, whichever is more restrictive (shallowest).

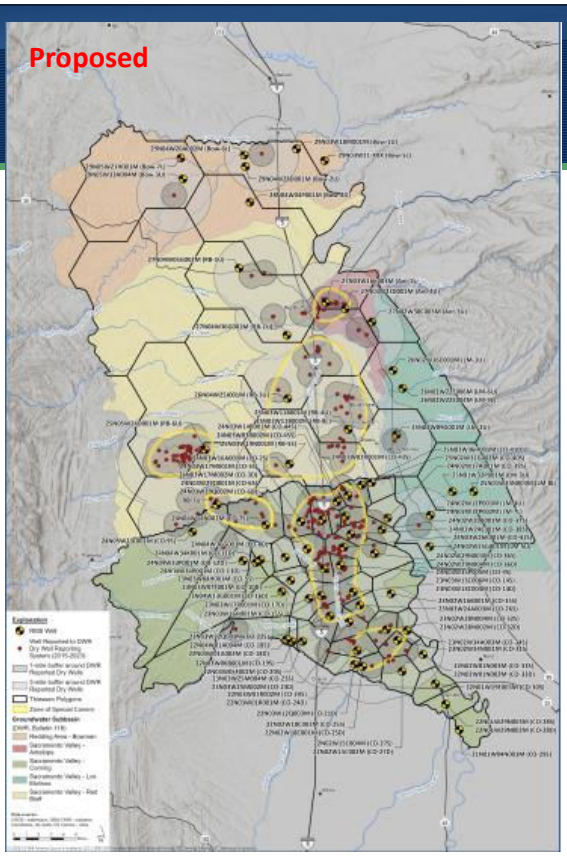
LSCE



Previous



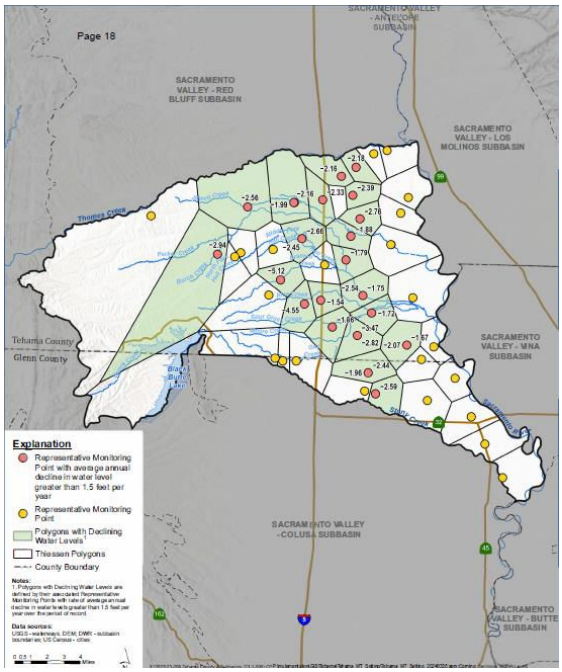
Proposed



LSCE

# Corning GSP – Revised Groundwater Level Minimum Threshold, Sustainable Management Criteria

- Declining Groundwater Level Polygons
  - Address Overdraft Concerns by DWR
  - Polygons could be utilized to address proposed well moratorium in Tehama County
  - MT set at the lowest groundwater level between 2020-2022 or the MT from the original 2022 GSP, whichever is more restrictive (shallowest).

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# MTs and SMCs


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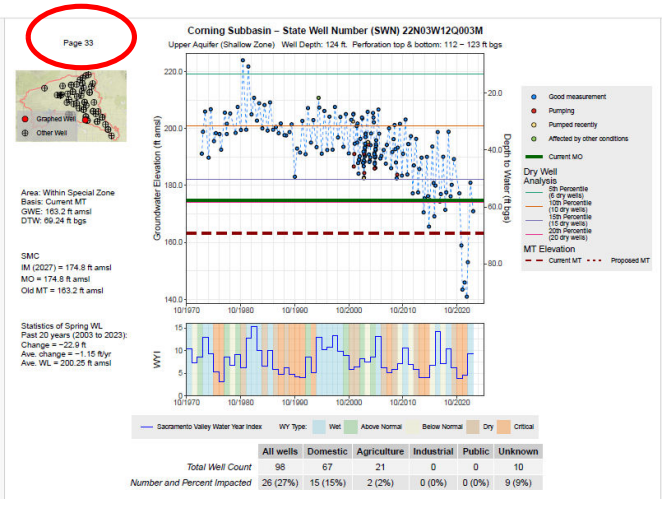


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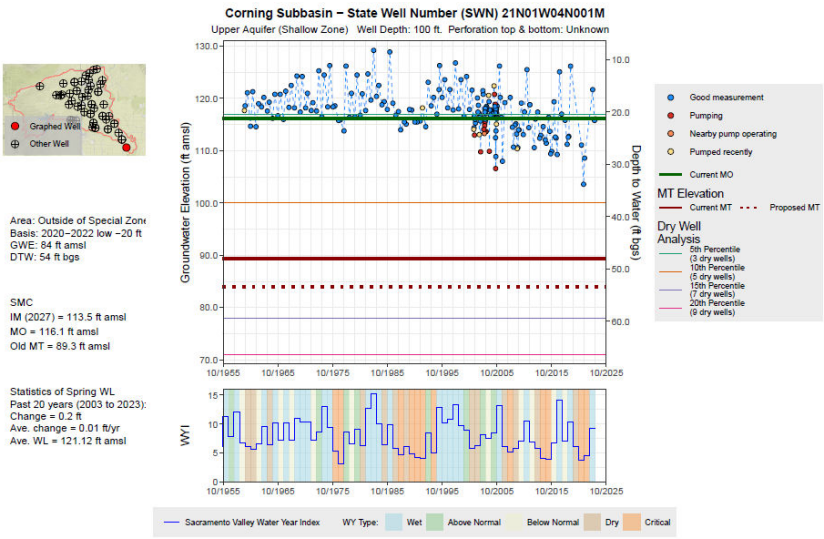
# MTs and SMCs – Previous & Proposed Approach




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 43 | 6 | 30 | 0 | 0 | 7 |
| *Number and Percent Impacted* | 5 (12%) | 2 (5%) | 0 (0%) | 0 (0%) | 0 (0%) | 3 (7%) |

**Previous**

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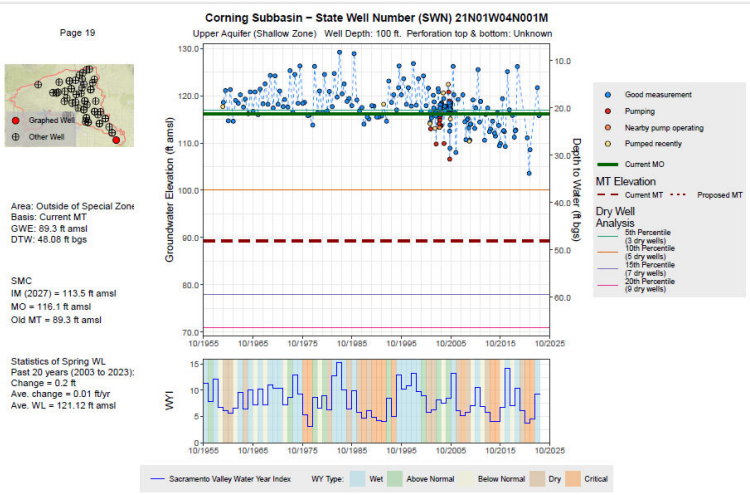


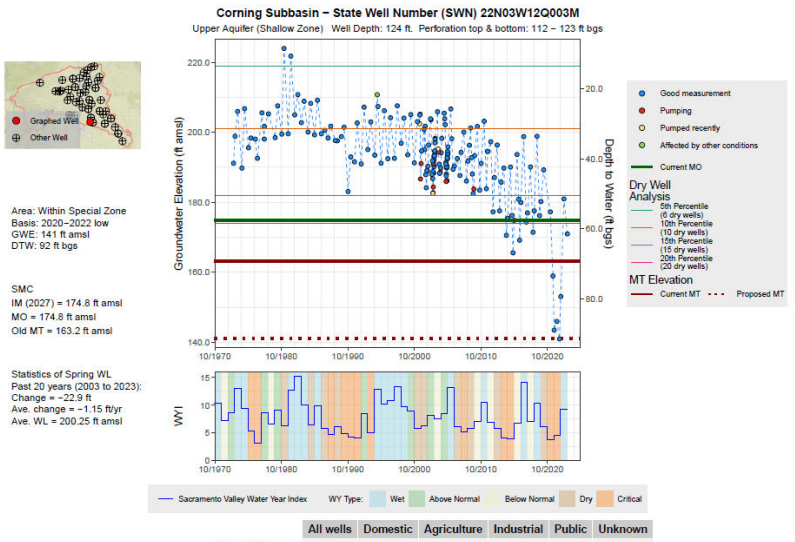

| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 43 | 6 | 30 | 0 | 0 | 7 |
| *Number and Percent Impacted* | 5 (12%) | 2 (5%) | 0 (0%) | 0 (0%) | 0 (0%) | 3 (7%) |

**Proposed**

LSCE



# MTs and SMCs – Previous & Current Approach




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 98 | 67 | 21 | 0 | 0 | 10 |
| *Number and Percent Impacted* | 35 (36%) | 24 (24%) | 2 (2%) | 0 (0%) | 0 (0%) | 9 (9%) |

**Previous**

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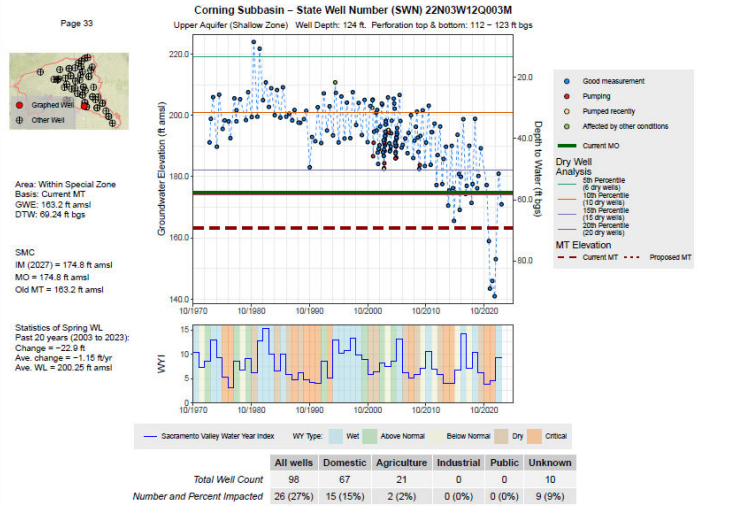


| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 98 | 67 | 21 | 0 | 0 | 10 |
| *Number and Percent Impacted* | 26 (27%) | 15 (15%) | 2 (2%) | 0 (0%) | 0 (0%) | 9 (9%) |

**Proposed**

LSCE

# GSP Revisions

- All revisions to the 2022 GSP are completed using track changes (red-line strikeout)
- Majority of changes occurred within Chapter 4 (Water Budget, specific to overdraft), Chapter 6 (Sustainable Management Criteria) and Chapter 7 (Projects and Management Actions)
- Minor revisions to other chapters
- Overview of Comments (share comments with reviewers)
  - Request verbal comments today (focused on SMC)
  - Request written comments by 4/7/2024

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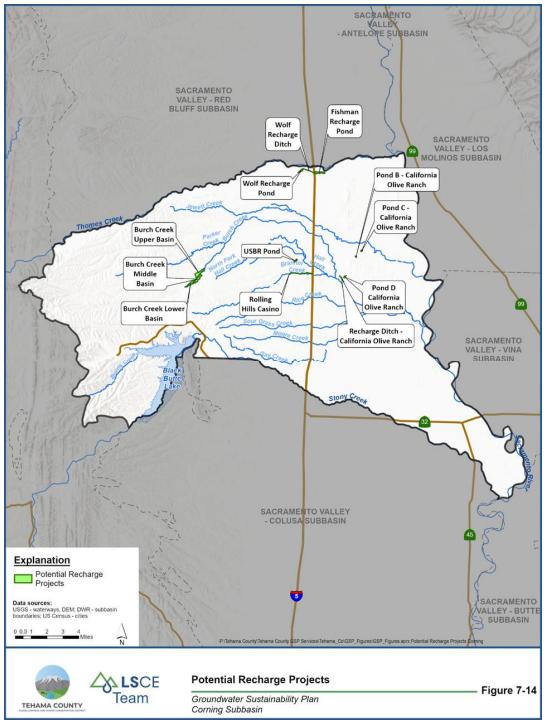
# Chapter 6 - Current/Proposed MO, MT and IM Summary

| Sustainability Indicator | Measurement | Minimum Threshold | Measurable Objective | Interim Milestones | Quantification of Undesirable Result |
|---|---|---|---|---|---|
| **Chronic lowering of groundwater levels** | Annual fall groundwater elevation measured in representative monitoring well network by county or DWR. | Focus Areas: 2020-2022 groundwater lows<br>**Outside Focus Areas:**<br>**2020-2022 lows minus 20 feet**<br>**However all RMP MTs remain as published in the 2022 GSP if they are shallower than the newly calculated values.** | Stable wells: Maximum fall groundwater elevation since 2012<br>Declining wells: Maximum fall groundwater elevation in 2015 | Linear trend between current conditions and measurable objective. | 20% of groundwater elevations measured at RMP wells drop below the associated minimum threshold during 2 consecutive fall measurements. |
| **Reduction in groundwater storage** | Using groundwater levels as a proxy, same as chronic lowering of groundwater levels network | Amount of groundwater in storage when groundwater elevations are at their minimum threshold – since groundwater levels are used as a proxy, same as chronic lowering of groundwater levels minimum thresholds | Amount of groundwater in storage when groundwater elevations are at their measurable objective - – since groundwater levels are used as a proxy, same as chronic lowering of groundwater levels measurable objectives | Linear trend between current conditions and measurable objective. | Same as chronic lowering of groundwater levels. |
| **Degraded groundwater quality** | Annual TDS measured by water providers at public supply wells in the Subbasin. | TDS concentration of 750 mg/L at public supply wells. | California lower limit SMCL concentration for TDS of 500 mg/L measured at public supply wells. | Identical to current conditions | At least 25% of representative monitoring sites exceed the minimum threshold for water quality for 2 consecutive years at each well where it can be established that GSP implementation is the cause of the exceedance. |
| **Land Subsidence** | Inelastic land subsidence measured by InSAR data available from DWR, and periodic measurements at the survey monuments | No more than 0.5 foot of cumulative subsidence over a five-year period (beyond the measurement error), solely due to lowered groundwater elevations | Zero inelastic subsidence, in addition to any measurement error. If InSAR data are used, the measurement error is 0.1 ft and any measurement of 0.1 ft or less would not be considered inelastic subsidence. | Identical to current conditions | Any exceedance of a minimum threshold that is irreversible and caused by lowering groundwater elevations. |
| **Depletion of interconnected surface water** | A subset of shallow wells used for monitoring the chronic lowering of groundwater levels, of DWR observation wells near interconnected streams. | Same as chronic lowering of groundwater levels. | Same as chronic lowering of groundwater levels. | Linear trend between current conditions and measurable objective. | Same as chronic lowering of groundwater levels. |

# Chapter 7 – Projects and Management Actions

- Demand Management
- Well Mitigation
- Priority Projects includes estimated recharge potential
- Off-stream Surface Water Storage Projects
  - Fisherman Recharge Pond
  - Wolf Ranch
  - Duck Pond
  - Thomes Creek
  - Middle Fork Hall
  - Rice Creek
  - Burch Creek




# GSP Schedule

**Schedule:**

- Written comments by 4/7/2024
- Comments will be incorporated, each GSA will hold a public hearing and consider adoption of the Revised Corning GSP
  - Corning Sub-basin GSA meeting on 4/11/2024.
  - Tehama County FCWCD Board of Directors Public Meeting on 4/15/2024
- GSP Revisions Updated to DWR Portal on 4/22/2024

# Questions?

LSCE

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# SMC Data Package

## Corning Subbasin

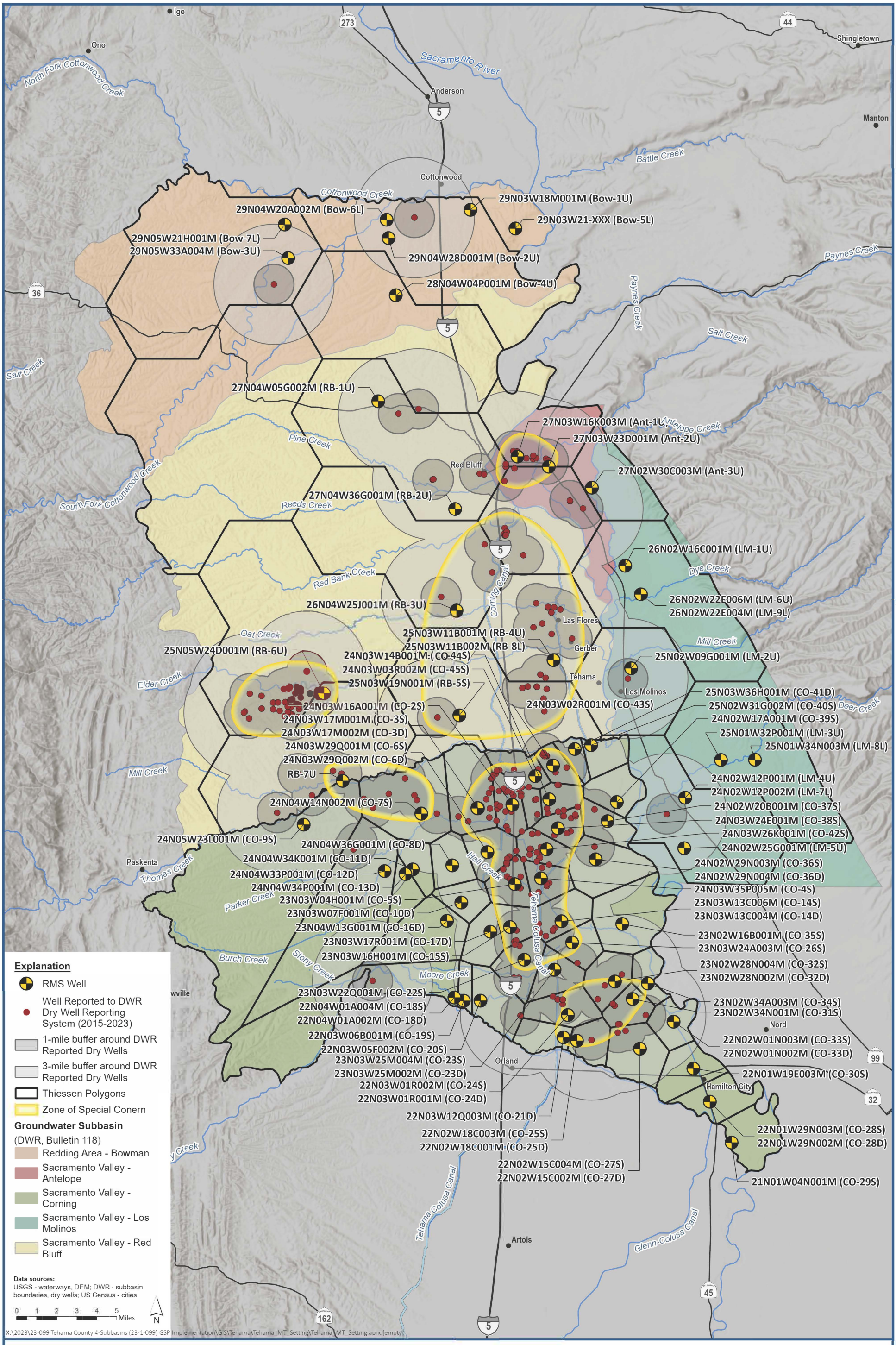
March 27-28, 2024 (Revised March 29, 2024)

PREPARED BY

Luhdorff & Scalmanini Consulting Engineers

## Proposed Undesirable Results Definition:

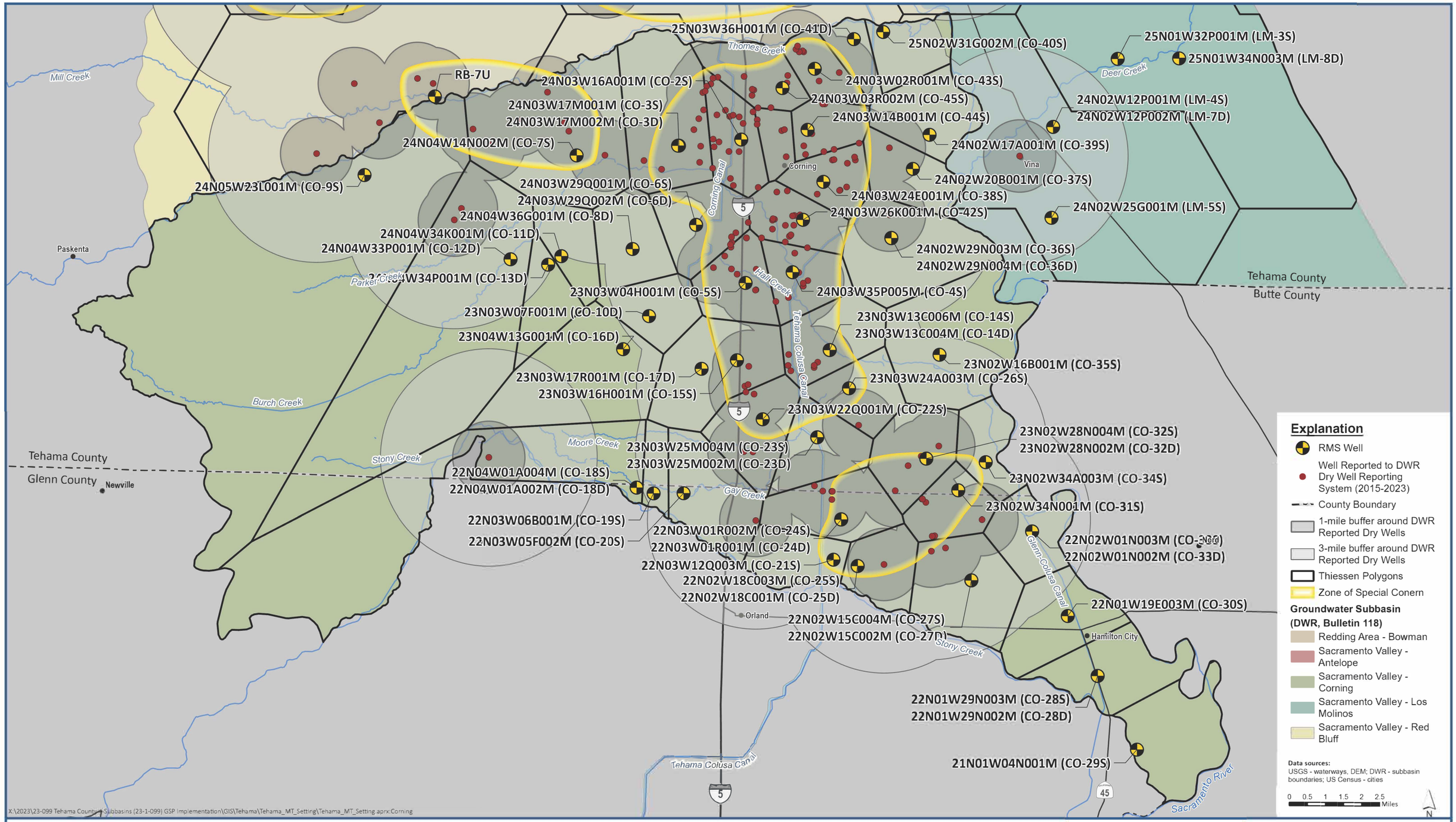
Undesirable results occur when significant and unreasonable effects for any of the six sustainability indicators defined by SGMA are caused by groundwater conditions occurring in the Subbasin. The GSAs define the negative effects to beneficial uses and users that would be experienced at undesirable result conditions as 10 wells becoming dry (after the GSP revision) within each Thiessen polygon or when water levels at RMP decline greater than 1.5 ft/year for two years. The GSAs will address the adverse impacts if any through projects to supplement supplies of water and through a well mitigation program. The impacts to groundwater dependent ecosystems that may occur without rising to significant and unreasonable levels constituting undesirable results has yet to be determined. The GSAs are actively addressing data gaps and monitoring to establish the relationship between interconnected surface water and groundwater and the potential adverse effects of a depletion of groundwater. The GSAs will update the Undesirable Results definition to include depletion of interconnected surface water in the 5-year Periodic Evaluation in January 2027.




Luhdorff & Scalmanini Consulting Engineers

**Representative Monitoring Sites and Report Dry Wells**
**Tehama County Groundwater Subbasins**

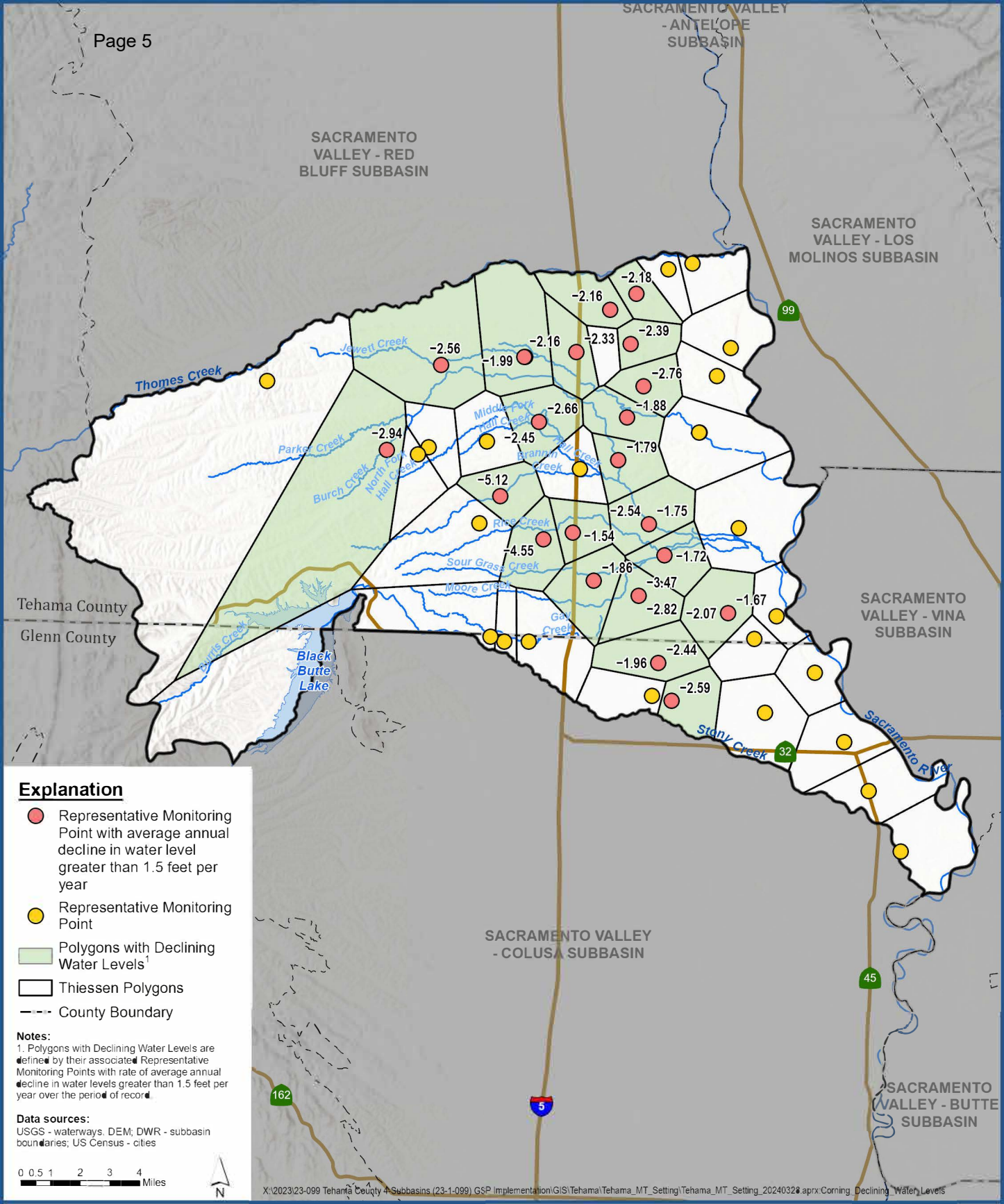
**Figure 1**




Luhdorff & Scalmanini Consulting Engineers

**Representative Monitoring Sites and Report Dry Wells**
**Corning Subbasin**

**Figure 2**




## Explanation

- Representative Monitoring Point with average annual decline in water level greater than 1.5 feet per year
- Representative Monitoring Point
- Polygons with Declining Water Levels[1]
- Thiessen Polygons
- County Boundary

**Notes:**
1. Polygons with Declining Water Levels are defined by their associated Representative Monitoring Points with rate of average annual decline in water levels greater than 1.5 feet per year over the period of record.

**Data sources:**
USGS - waterways. DEM; DWR - subbasin boundaries; US Census - cities

0 0.5 1 2 3 4 Miles

N

X:\2023\23-099 Tehama County 4 Subbasins (23-1-099) GSP Implementation\GIS\Tehama\Tehama_MT_Setting\Tehama_MT_Setting_20240328.aprx\Corning_Declining_Water_Levels



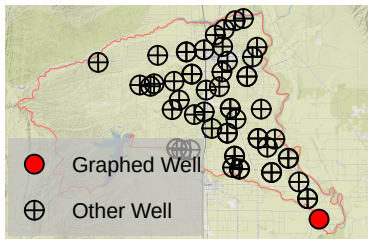
**Polygons with Declining Water Levels**

*Groundwater Sustainability Plan*
*Corning Subbasin*

**Figure 3**

# Corning Subbasin – State Well Number (SWN) 21N01W04N001M

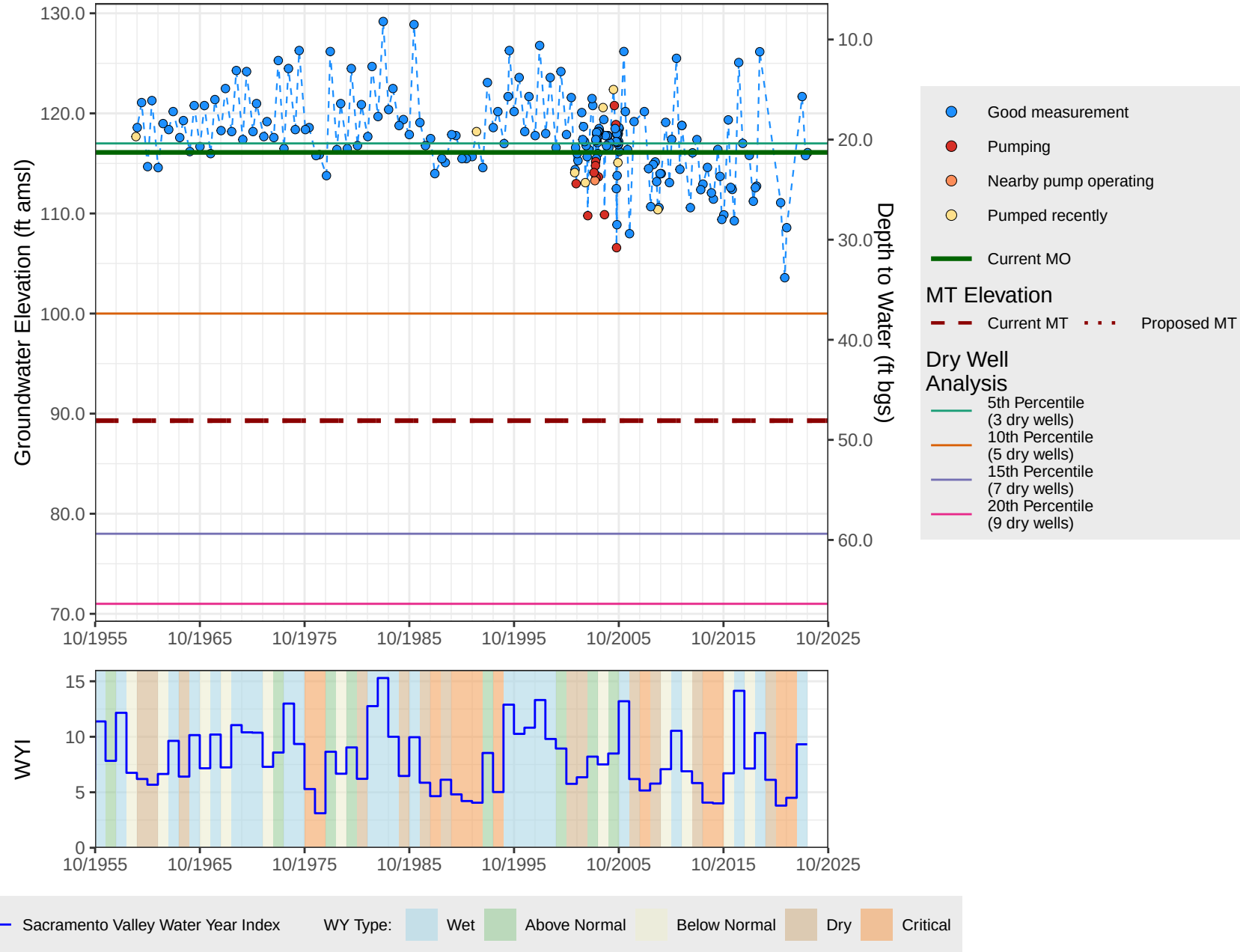
Upper Aquifer (Shallow Zone)  Well Depth: 100 ft.  Perforation top & bottom: Unknown




Area: Outside of Special Zone
Basis: Current MT
GWE: 89.3 ft amsl
DTW: 48.08 ft bgs

SMC
IM (2027) = 113.5 ft amsl
MO = 116.1 ft amsl
Old MT = 89.3 ft amsl

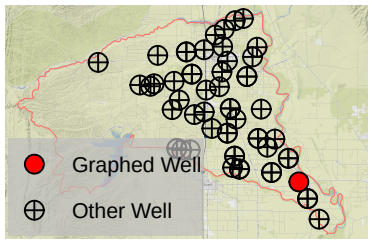
Statistics of Spring WL
Past 20 years (2003 to 2023):
Change = 0.2 ft
Ave. change = 0.01 ft/yr
Ave. WL = 121.12 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 43 | 6 | 30 | 0 | 0 | 7 |
| *Number and Percent Impacted* | 5 (12%) | 2 (5%) | 0 (0%) | 0 (0%) | 0 (0%) | 3 (7%) |

# Corning Subbasin − State Well Number (SWN) 22N01W19E003M

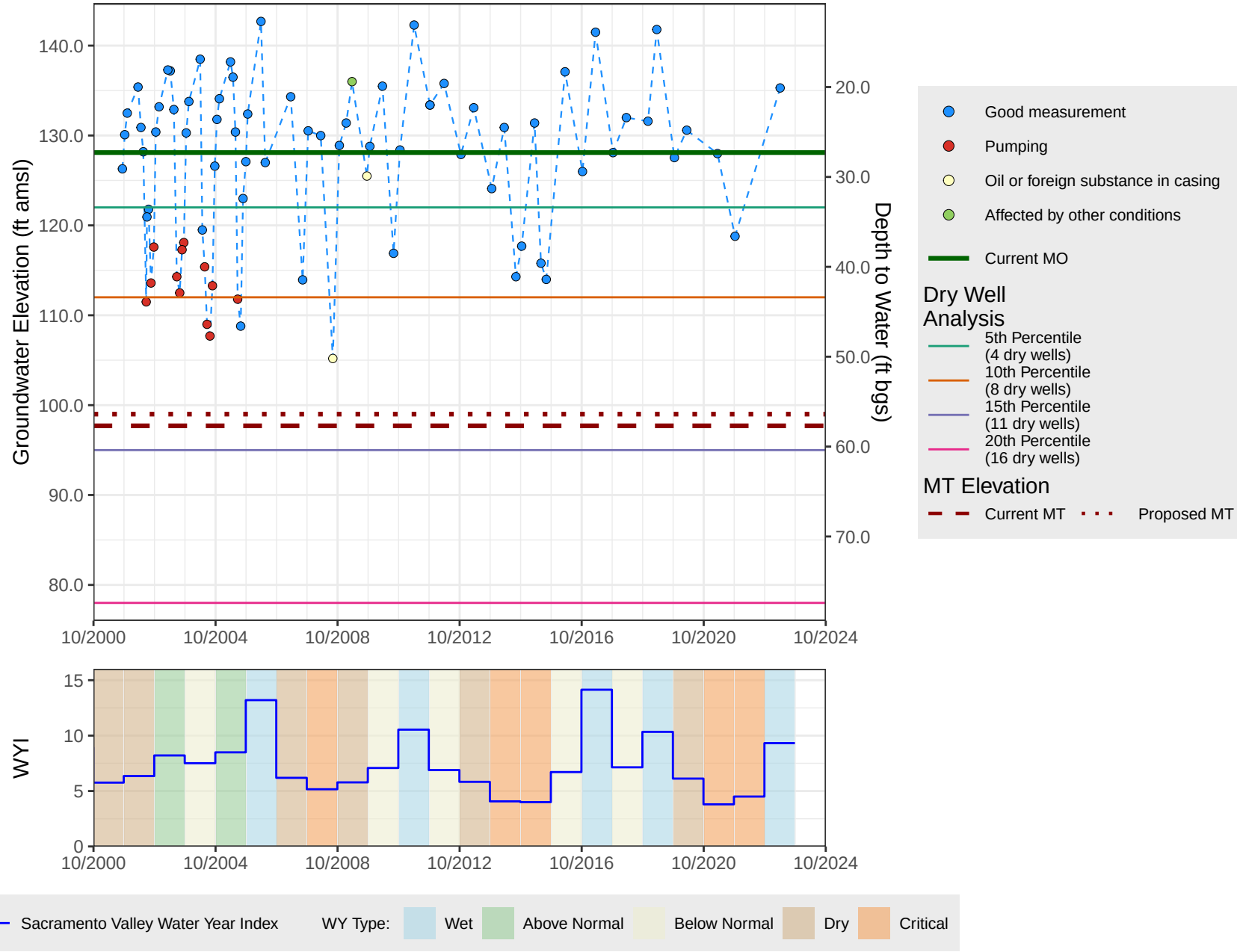
Upper Aquifer (Shallow Zone)  Well Depth: 500 ft.  Perforation top & bottom: 80 − 400 ft bgs




Area: Outside of Special Zone
Basis: 2020−2022 low −20 ft
GWE: 99 ft amsl
DTW: 57 ft bgs

SMC
IM (2027) = 127.7 ft amsl
MO = 128.1 ft amsl
Old MT = 97.7 ft amsl

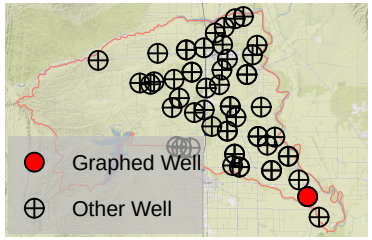
Statistics of Spring WL
Past 20 years (2003 to 2023):
Change = −2 ft
Ave. change = −0.1 ft/yr
Ave. WL = 135.6 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 76 | 15 | 40 | 1 | 2 | 18 |
| *Number and Percent Impacted* | 11 (14%) | 2 (3%) | 1 (1%) | 0 (0%) | 0 (0%) | 8 (11%) |

# Corning Subbasin − State Well Number (SWN) 22N01W29N002M

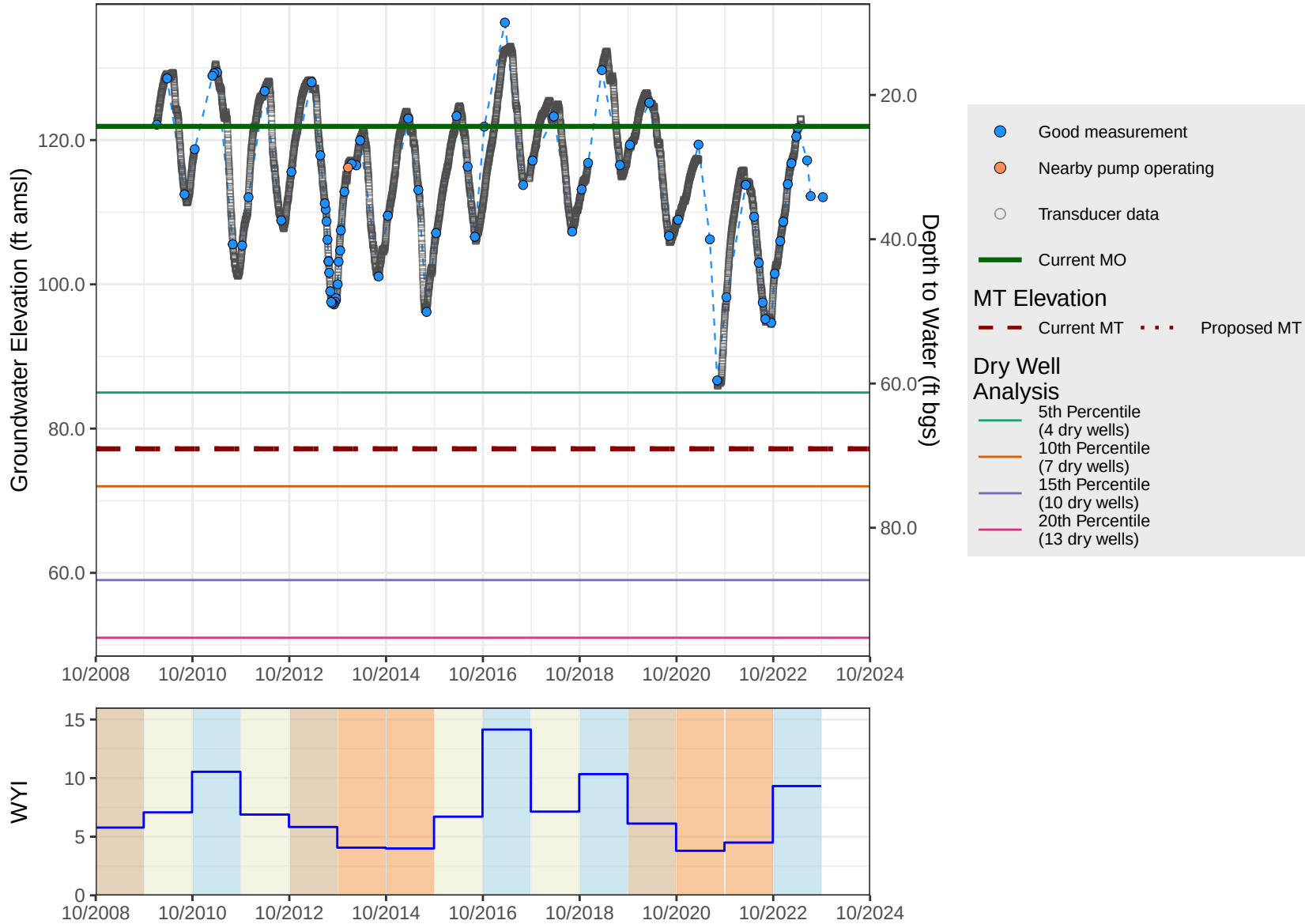
Upper Aquifer (Deep Zone)  Well Depth: 670 ft.  Perforation top & bottom: 549 − 641 ft bgs




Area: Outside of Special Zone
Basis: Current MT
GWE: 77.2 ft amsl
DTW: 69.05 ft bgs

SMC
IM (2027) = 120.0 ft amsl
MO = 121.9 ft amsl
Old MT = 77.2 ft amsl

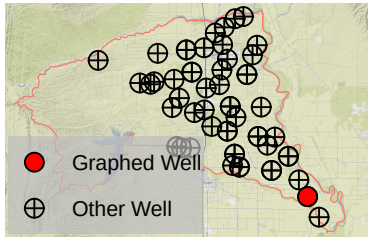
Statistics of Spring WL
Past 13 years (2010 to 2023):
Change = −6.86 ft
Ave. change = −0.53 ft/yr
Ave. WL = 124.87 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 64 | 22 | 38 | 1 | 0 | 3 |
| *Number and Percent Impacted* | 5 (8%) | 2 (3%) | 2 (3%) | 0 (0%) | 0 (0%) | 1 (2%) |

# Corning Subbasin − State Well Number (SWN) 22N01W29N003M

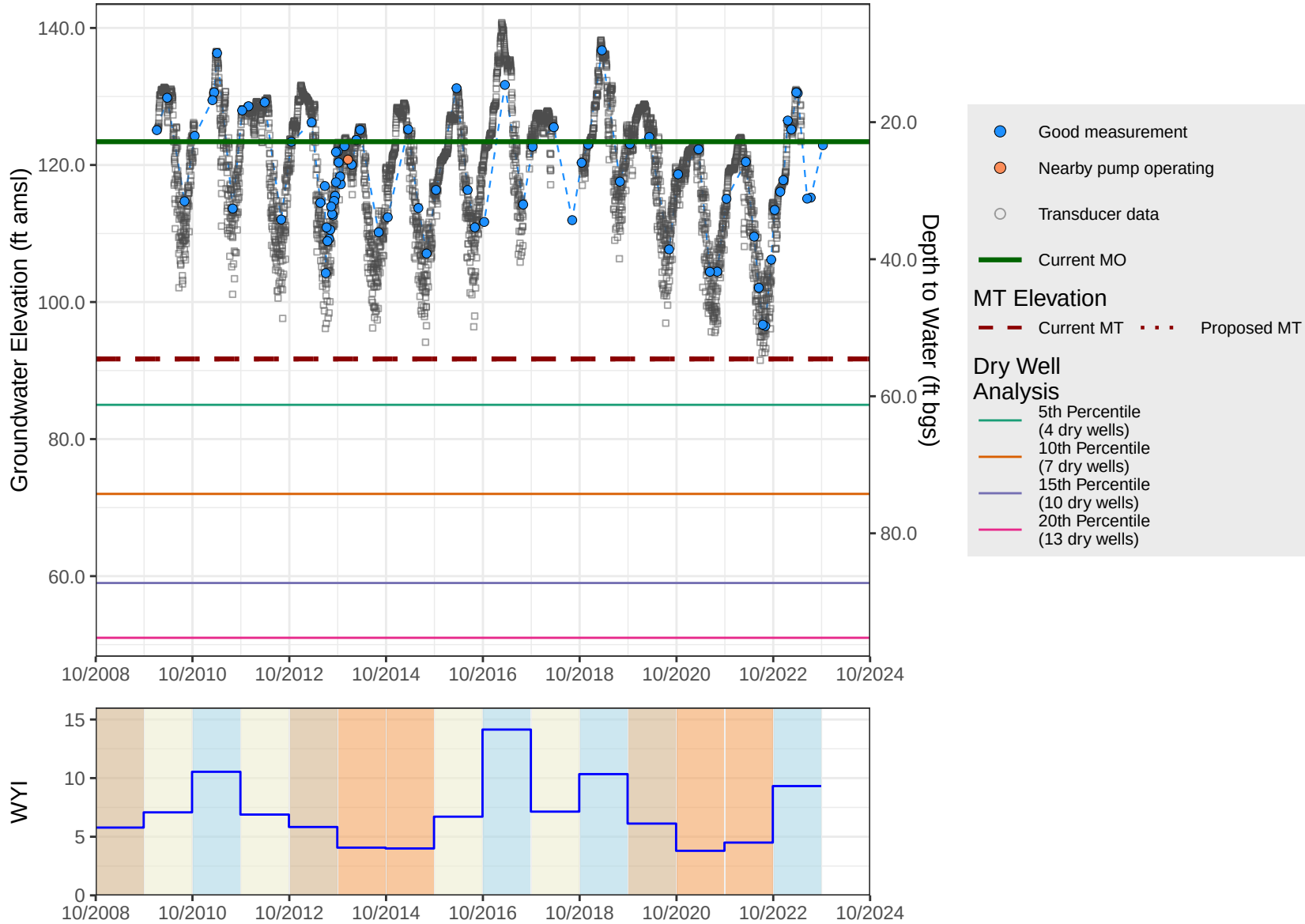
Upper Aquifer (Shallow Zone)  Well Depth: 400 ft.  Perforation top & bottom: 189 − 380 ft bgs




Area: Outside of Special Zone
Basis: Current MT
GWE: 91.7 ft amsl
DTW: 54.55 ft bgs

SMC
IM (2027) = 123.2 ft amsl
MO = 123.4 ft amsl
Old MT = 91.7 ft amsl

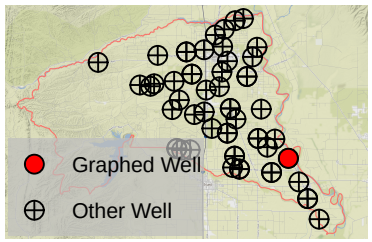
Statistics of Spring WL
Past 13 years (2010 to 2023):
Change = 0.78 ft
Ave. change = 0.06 ft/yr
Ave. WL = 128.17 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 64 | 22 | 38 | 1 | 0 | 3 |
| *Number and Percent Impacted* | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |

# Corning Subbasin − State Well Number (SWN) 22N02W01N002M

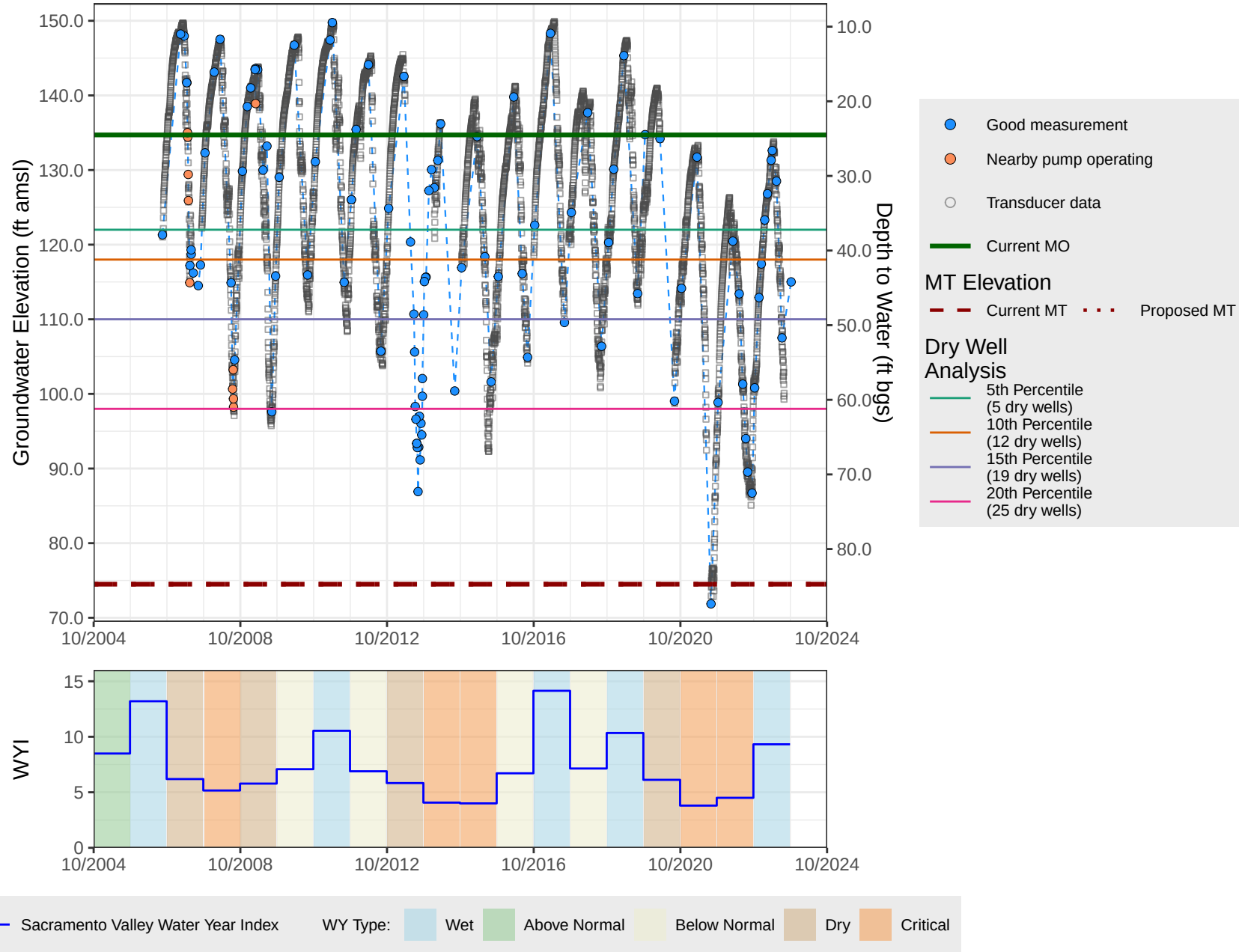
Upper Aquifer (Deep Zone)  Well Depth: 730 ft.  Perforation top & bottom: 700 − 710 ft bgs




Area: Outside of Special Zone
Basis: Current MT
GWE: 74.5 ft amsl
DTW: 84.71 ft bgs

SMC
IM (2027) = 134.7 ft amsl
MO = 134.7 ft amsl
Old MT = 74.5 ft amsl

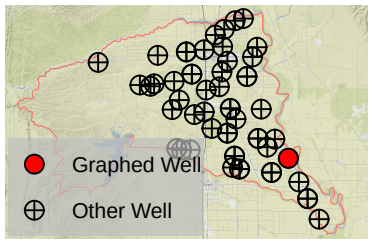
Statistics of Spring WL
Past 16 years (2007 to 2023):
Change = −15.6 ft
Ave. change = −0.98 ft/yr
Ave. WL = 140.19 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 122 | 73 | 41 | 2 | 0 | 6 |
| *Number and Percent Impacted* | 46 (38%) | 38 (31%) | 4 (3%) | 0 (0%) | 0 (0%) | 4 (3%) |

# Corning Subbasin − State Well Number (SWN) 22N02W01N003M

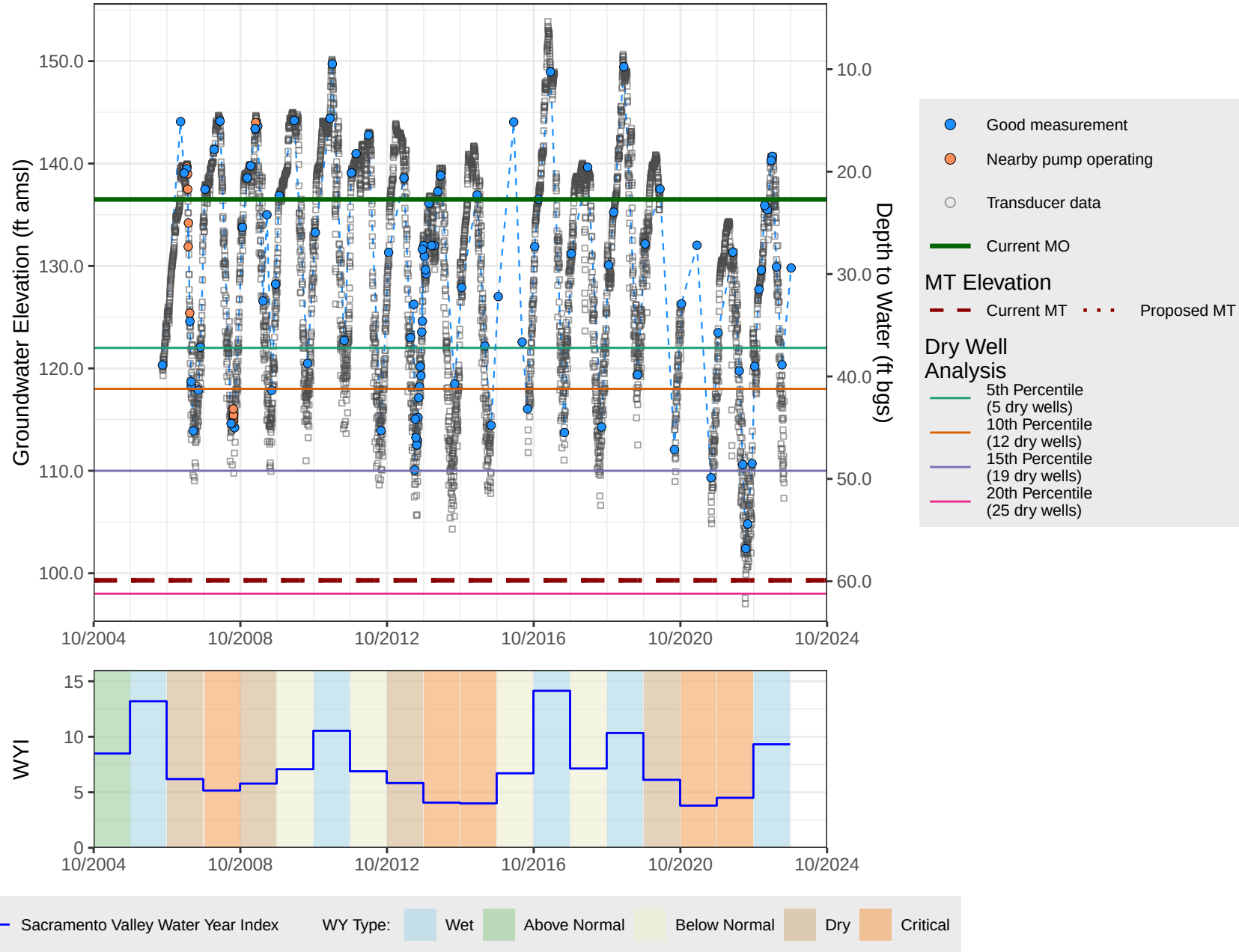
Upper Aquifer (Shallow Zone)  Well Depth: 440 ft.  Perforation top & bottom: 210 − 370 ft bgs




Area: Outside of Special Zone
Basis: Current MT
GWE: 99.3 ft amsl
DTW: 59.91 ft bgs

SMC
IM (2027) = 133.2 ft amsl
MO = 136.5 ft amsl
Old MT = 99.3 ft amsl

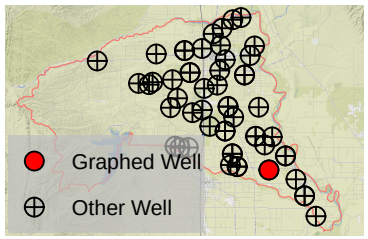
Statistics of Spring WL
Past 16 years (2007 to 2023):
Change = −3.4 ft
Ave. change = −0.21 ft/yr
Ave. WL = 141.57 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 122 | 73 | 41 | 2 | 0 | 6 |
| *Number and Percent Impacted* | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |

# Corning Subbasin − State Well Number (SWN) 22N02W15C002M

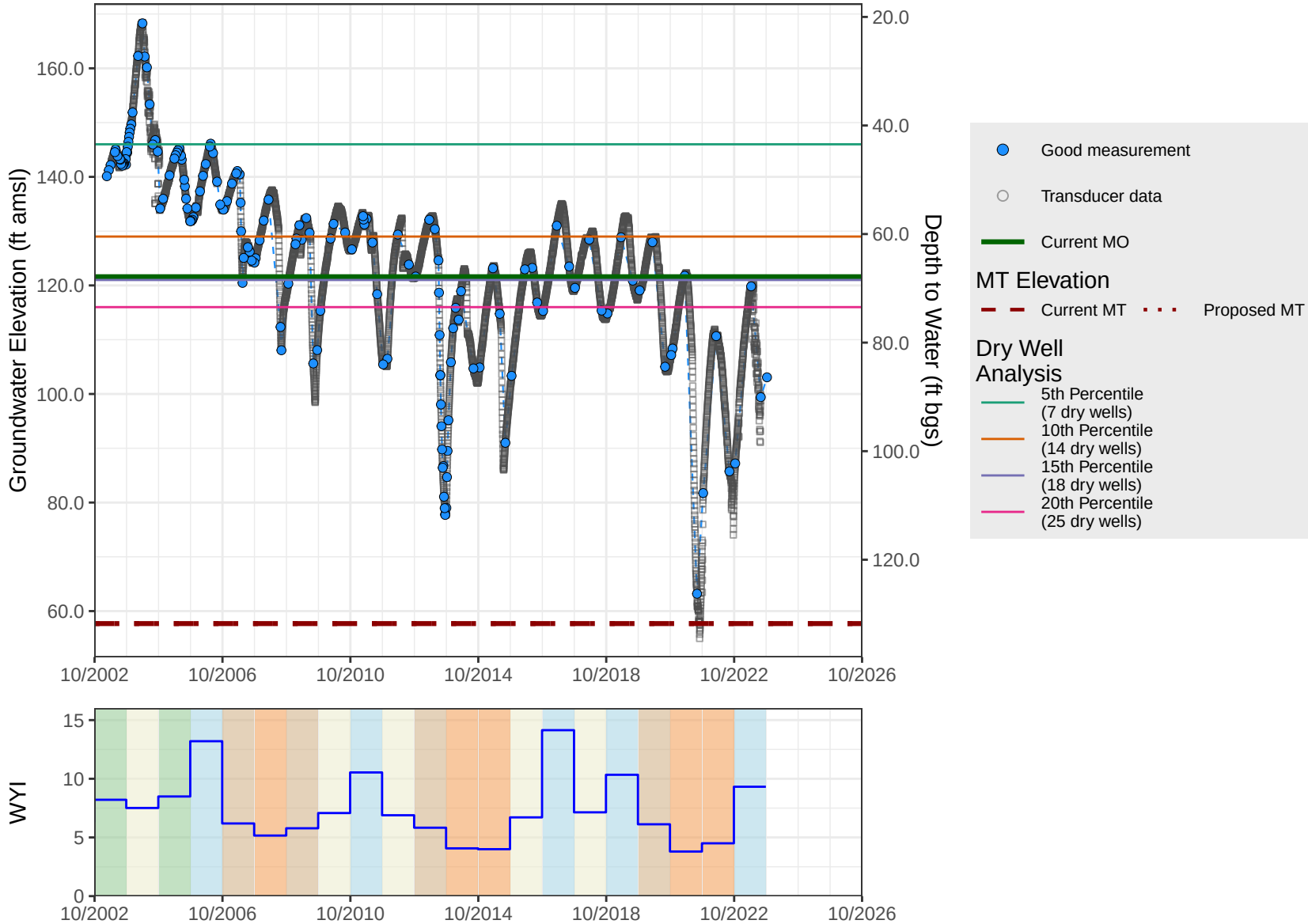
Upper Aquifer (Deep Zone)  Well Depth: 825 ft.  Perforation top & bottom: 760 − 781 ft bgs




Area: Outside of Special Zon
Basis: Current MT
GWE: 57.7 ft amsl
DTW: 131.765 ft bgs

SMC
IM (2027) = 119.7 ft amsl
MO = 121.6 ft amsl
Old MT = 57.7 ft amsl

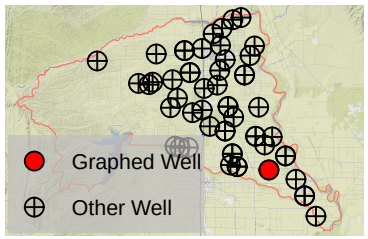
Statistics of Spring WL
Past 20 years (2003 to 2023)
Change = −22.35 ft
Ave. change = −1.12 ft/yr
Ave. WL = 131.64 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 122 | 60 | 48 | 2 | 0 | 12 |
| *Number and Percent Impacted* | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |

# Corning Subbasin − State Well Number (SWN) 22N02W15C004M

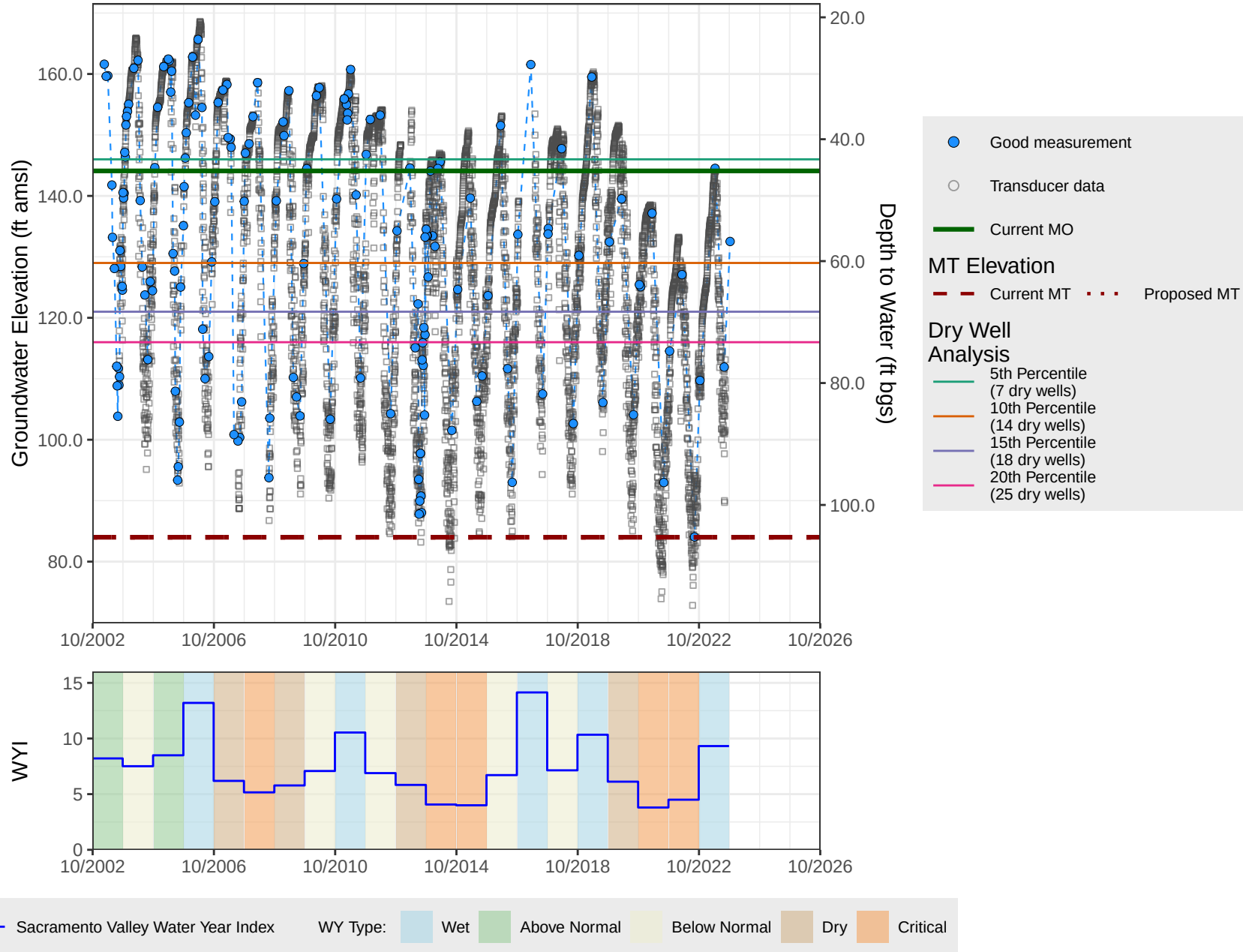
Upper Aquifer (Shallow Zone)  Well Depth: 258 ft.  Perforation top & bottom: 210 − 220 ft bgs




Area: Outside of Special Zon
Basis: Current MT
GWE: 84 ft amsl
DTW: 105.3 ft bgs

SMC
IM (2027) = 135.4 ft amsl
MO = 144.1 ft amsl
Old MT = 84.0 ft amsl

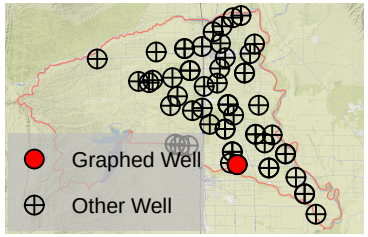
Statistics of Spring WL
Past 20 years (2003 to 2023)
Change = −17.08 ft
Ave. change = −0.85 ft/yr
Ave. WL = 152.2 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 122 | 60 | 48 | 2 | 0 | 12 |
| *Number and Percent Impacted* | 42 (34%) | 34 (28%) | 2 (2%) | 2 (2%) | 0 (0%) | 4 (3%) |

# Corning Subbasin − State Well Number (SWN) 22N02W18C001M

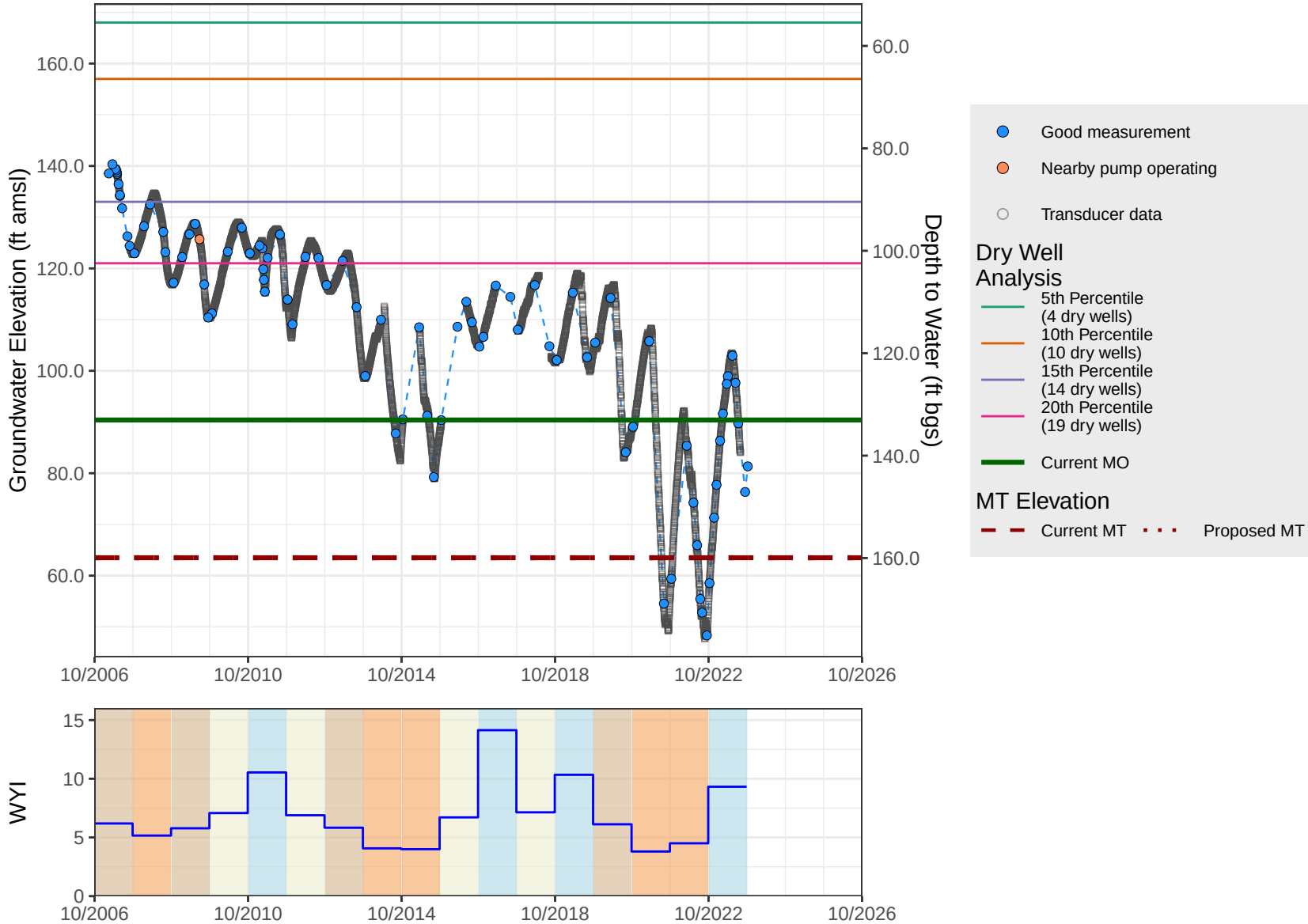
Upper Aquifer (Deep Zone)  Well Depth: 1062 ft.  Perforation top & bottom: 841 − 1029 ft bgs




Area: Within Special Zone
Basis: Current MT
GWE: 63.5 ft amsl
DTW: 159.94 ft bgs

SMC
IM (2027) = 90.4 ft amsl
MO = 90.4 ft amsl
Old MT = 63.5 ft amsl

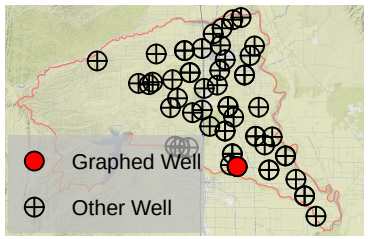
Statistics of Spring WL
Past 16 years (2007 to 2023)
Change = −41.4 ft
Ave. change = −2.59 ft/yr
Ave. WL = 115.94 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 93 | 47 | 38 | 0 | 0 | 8 |
| *Number and Percent Impacted* | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |

# Corning Subbasin − State Well Number (SWN) 22N02W18C003M

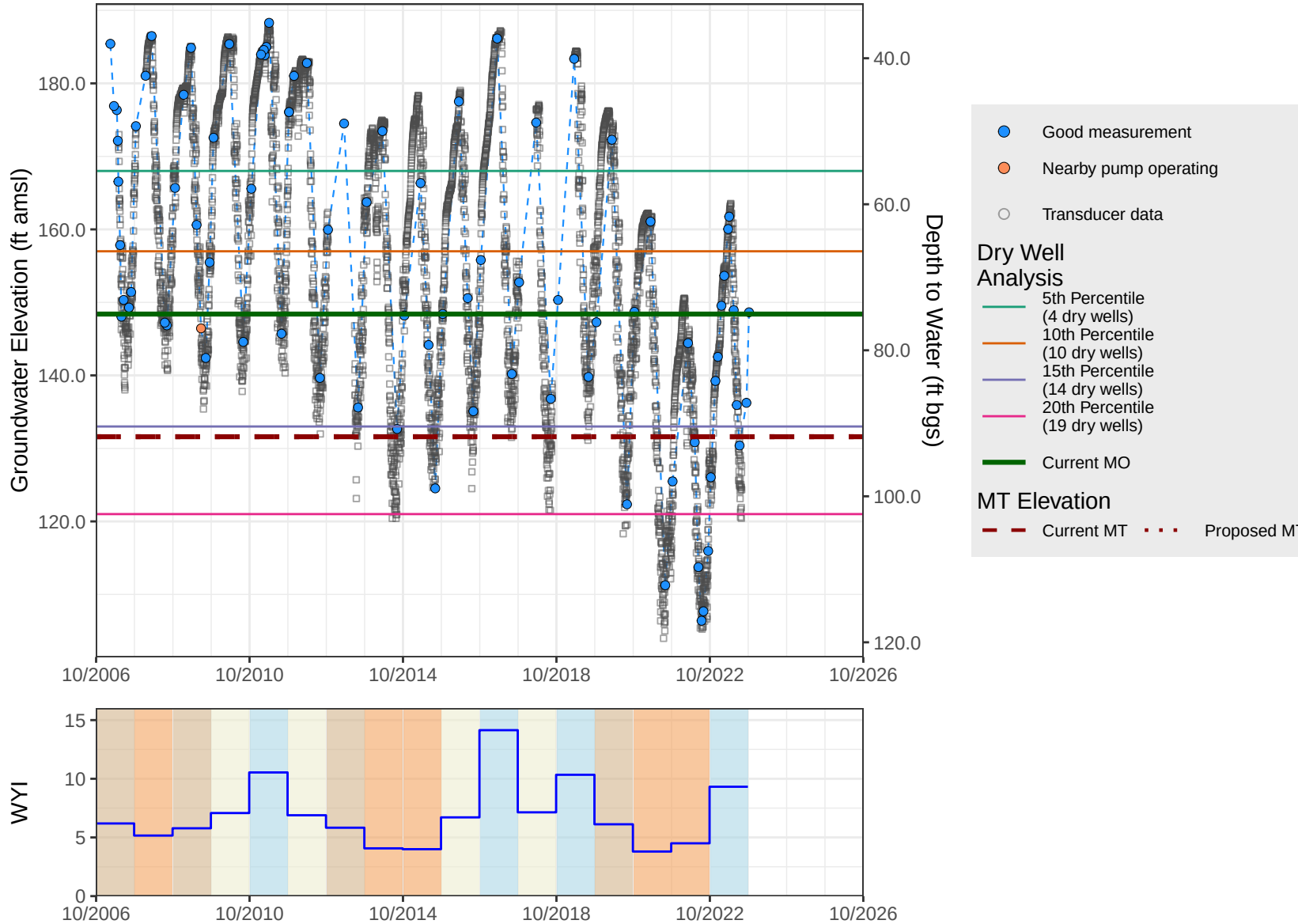
Upper Aquifer (Shallow Zone)  Well Depth: 188 ft.  Perforation top & bottom: 165 − 175 ft bgs




Area: Within Special Zone
Basis: Current MT
GWE: 131.6 ft amsl
DTW: 91.84 ft bgs

SMC
IM (2027) = 147.6 ft amsl
MO = 148.4 ft amsl
Old MT = 131.6 ft amsl

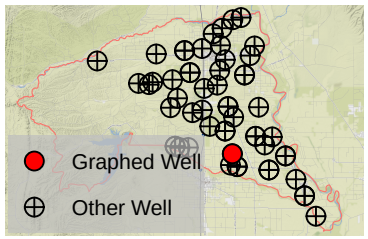
Statistics of Spring WL
Past 16 years (2007 to 2023)
Change = −23.68 ft
Ave. change = −1.48 ft/yr
Ave. WL = 175.8 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 93 | 47 | 38 | 0 | 0 | 8 |
| *Number and Percent Impacted* | 15 (16%) | 12 (13%) | 1 (1%) | 0 (0%) | 0 (0%) | 2 (2%) |

# Corning Subbasin − State Well Number (SWN) 22N03W01R001M

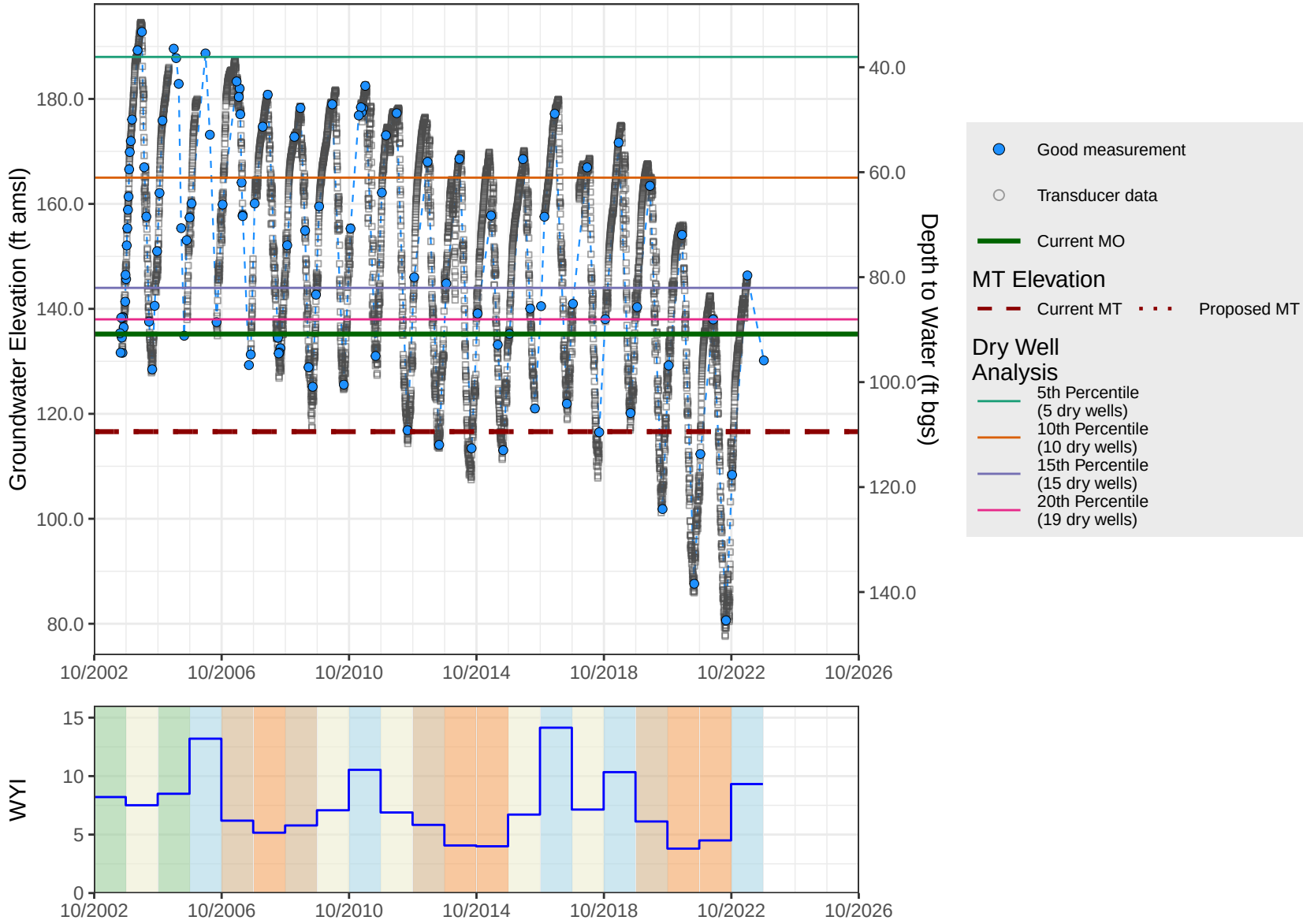
Upper Aquifer (Deep Zone)  Well Depth: 515 ft.  Perforation top & bottom: 470 − 480 ft bgs




Area: Within Special Zone
Basis: Current MT
GWE: 116.6 ft amsl
DTW: 109.44 ft bgs

SMC
IM (2027) = 135.2 ft amsl
MO = 135.2 ft amsl
Old MT = 116.6 ft amsl

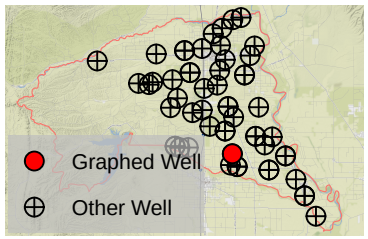
Statistics of Spring WL
Past 19 years (2004 to 2023)
Change = −46.4 ft
Ave. change = −2.44 ft/yr
Ave. WL = 171.64 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 95 | 60 | 29 | 0 | 0 | 6 |
| *Number and Percent Impacted* | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |

# Corning Subbasin − State Well Number (SWN) 22N03W01R002M

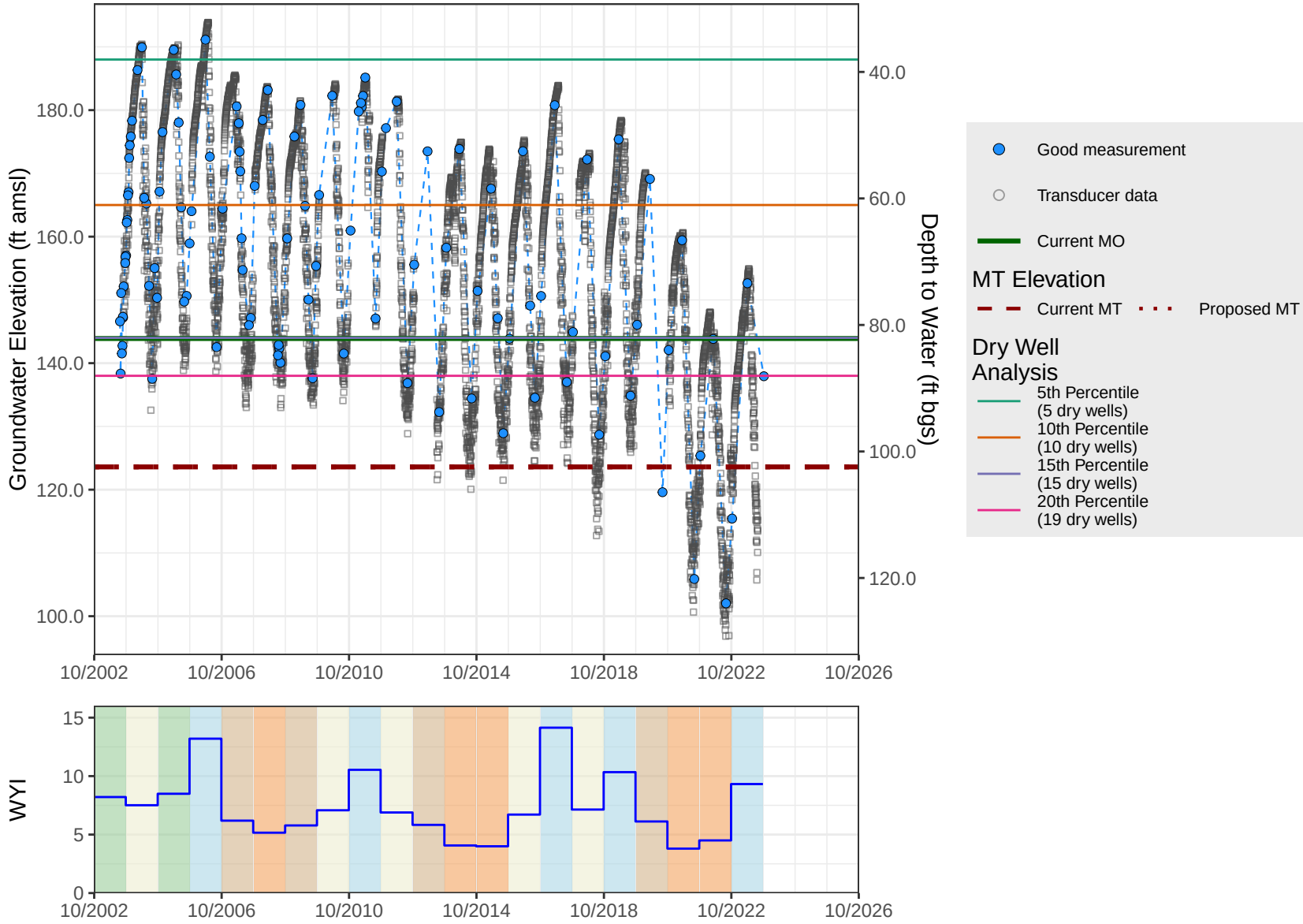
Upper Aquifer (Shallow Zone)  Well Depth: 314 ft.  Perforation top & bottom: 270 − 280 ft bgs




Area: Within Special Zone
Basis: Current MT
GWE: 123.6 ft amsl
DTW: 102.44 ft bgs

SMC
IM (2027) = 143.9 ft amsl
MO = 143.9 ft amsl
Old MT = 123.6 ft amsl

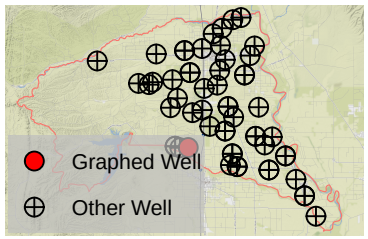
Statistics of Spring WL
Past 19 years (2004 to 2023)
Change = −37.3 ft
Ave. change = −1.96 ft/yr
Ave. WL = 175.29 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 95 | 60 | 29 | 0 | 0 | 6 |
| *Number and Percent Impacted* | 28 (29%) | 21 (22%) | 2 (2%) | 0 (0%) | 0 (0%) | 5 (5%) |

# Corning Subbasin − State Well Number (SWN) 22N03W05F002M

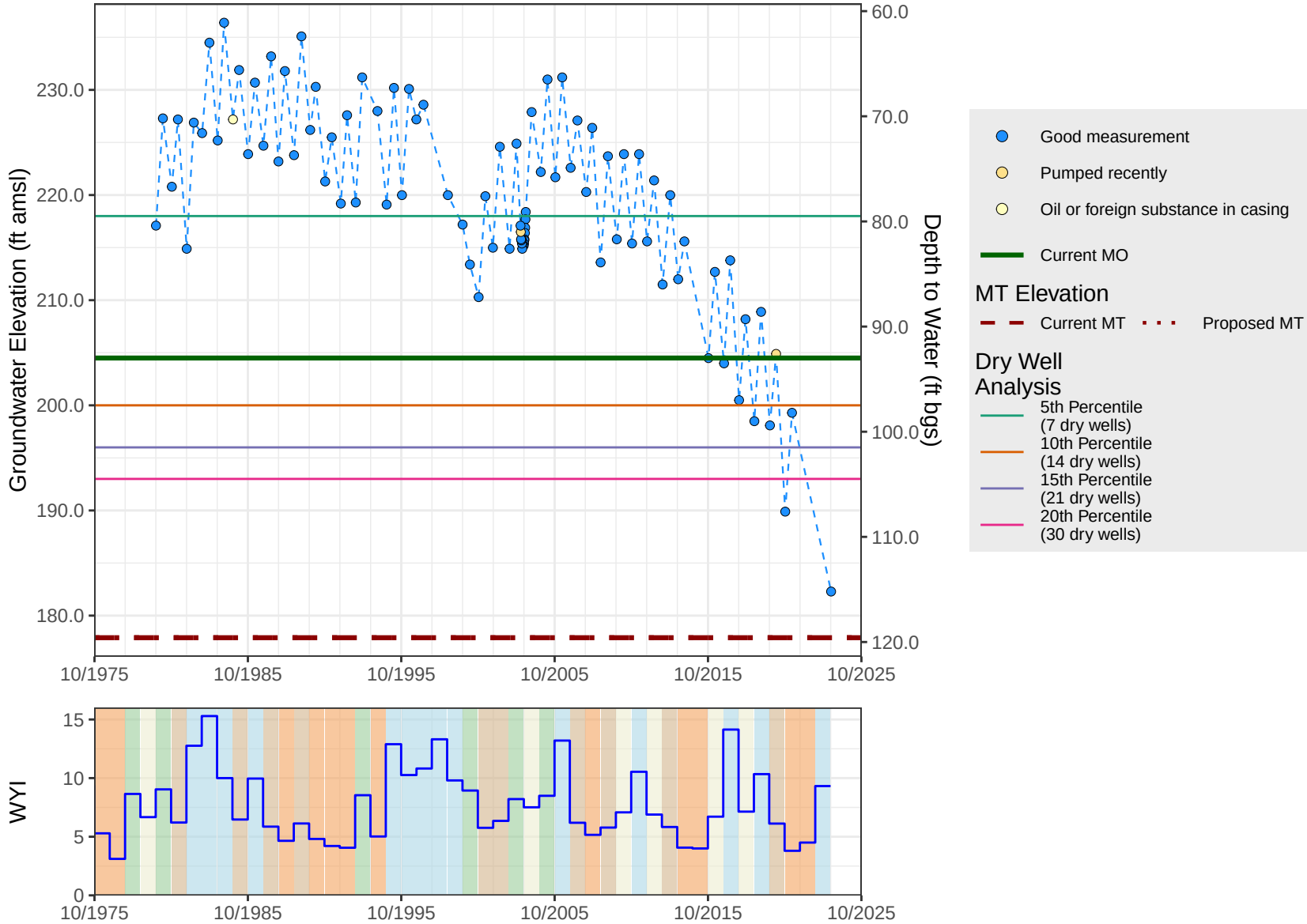
Upper Aquifer (Shallow Zone)  Well Depth: 218 ft.  Perforation top & bottom: 188 − 218 ft bgs




Area: Outside of Special Zon
Basis: Current MT
GWE: 177.9 ft amsl
DTW: 119.59 ft bgs

SMC
IM (2027) = 199.7 ft amsl
MO = 204.5 ft amsl
Old MT = 177.9 ft amsl

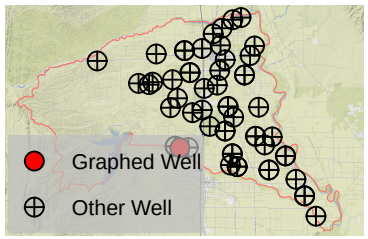
Statistics of Spring WL
Past 18 years (2003 to 2021)
Change = −25.6 ft
Ave. change = −1.42 ft/yr
Ave. WL = 224.84 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 137 | 101 | 25 | 2 | 0 | 9 |
| *Number and Percent Impacted* | 46 (34%) | 43 (31%) | 2 (1%) | 0 (0%) | 0 (0%) | 1 (1%) |

# Corning Subbasin − State Well Number (SWN) 22N03W06B001M

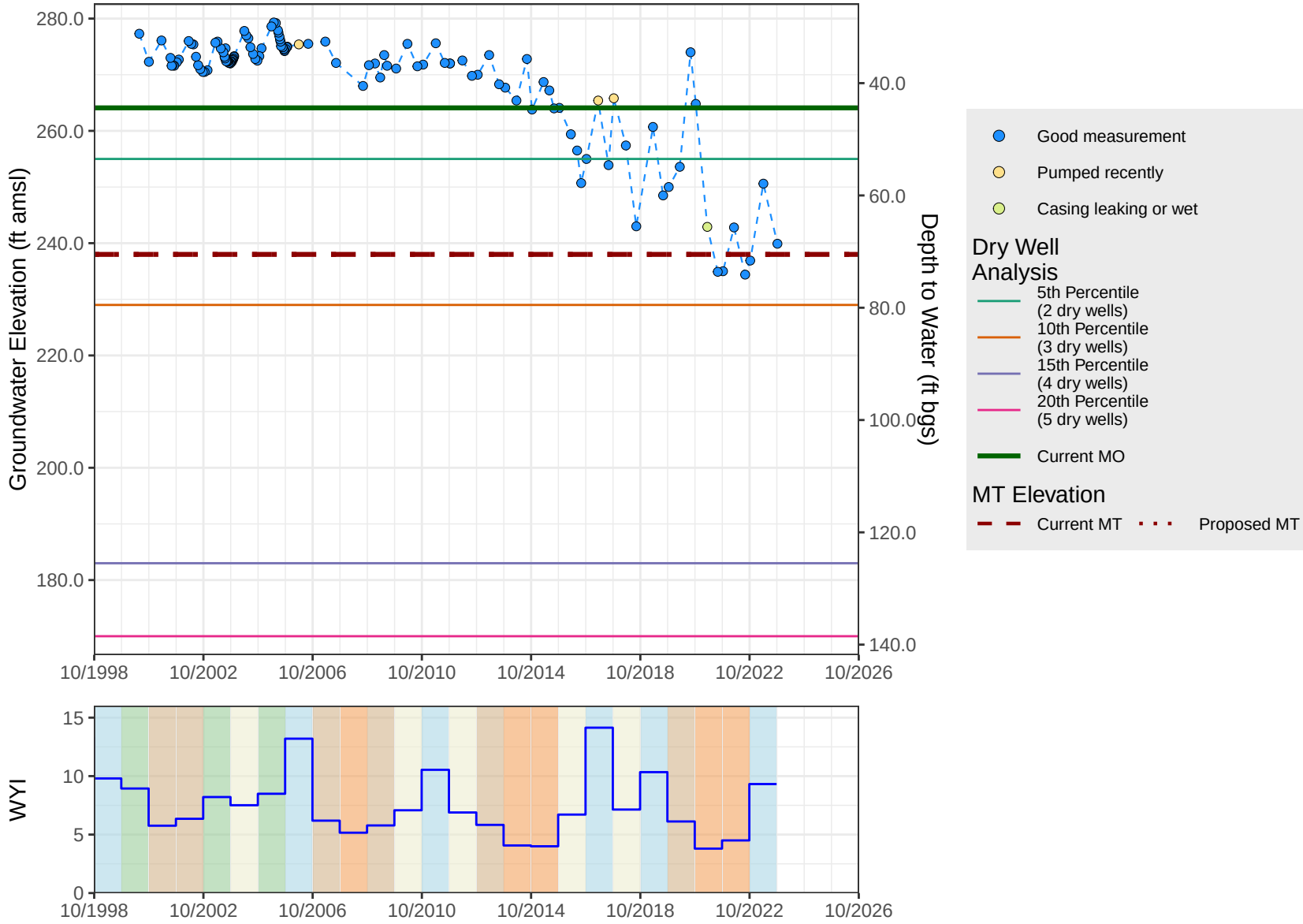
Upper Aquifer (Shallow Zone)  Well Depth: 210 ft.  Perforation top & bottom: 195 − 210 ft bgs




Area: Outside of Special Zon
Basis: Current MT
GWE: 238 ft amsl
DTW: 70.5 ft bgs

SMC
IM (2027) = 253.5 ft amsl
MO = 264.1 ft amsl
Old MT = 238.0 ft amsl

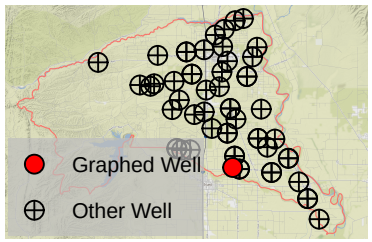
Statistics of Spring WL
Past 20 years (2003 to 2023)
Change = −25.3 ft
Ave. change = −1.26 ft/yr
Ave. WL = 266.58 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 25 | 20 | 4 | 0 | 0 | 1 |
| *Number and Percent Impacted* | 3 (12%) | 2 (8%) | 0 (0%) | 0 (0%) | 0 (0%) | 1 (4%) |

# Corning Subbasin − State Well Number (SWN) 22N03W12Q003M

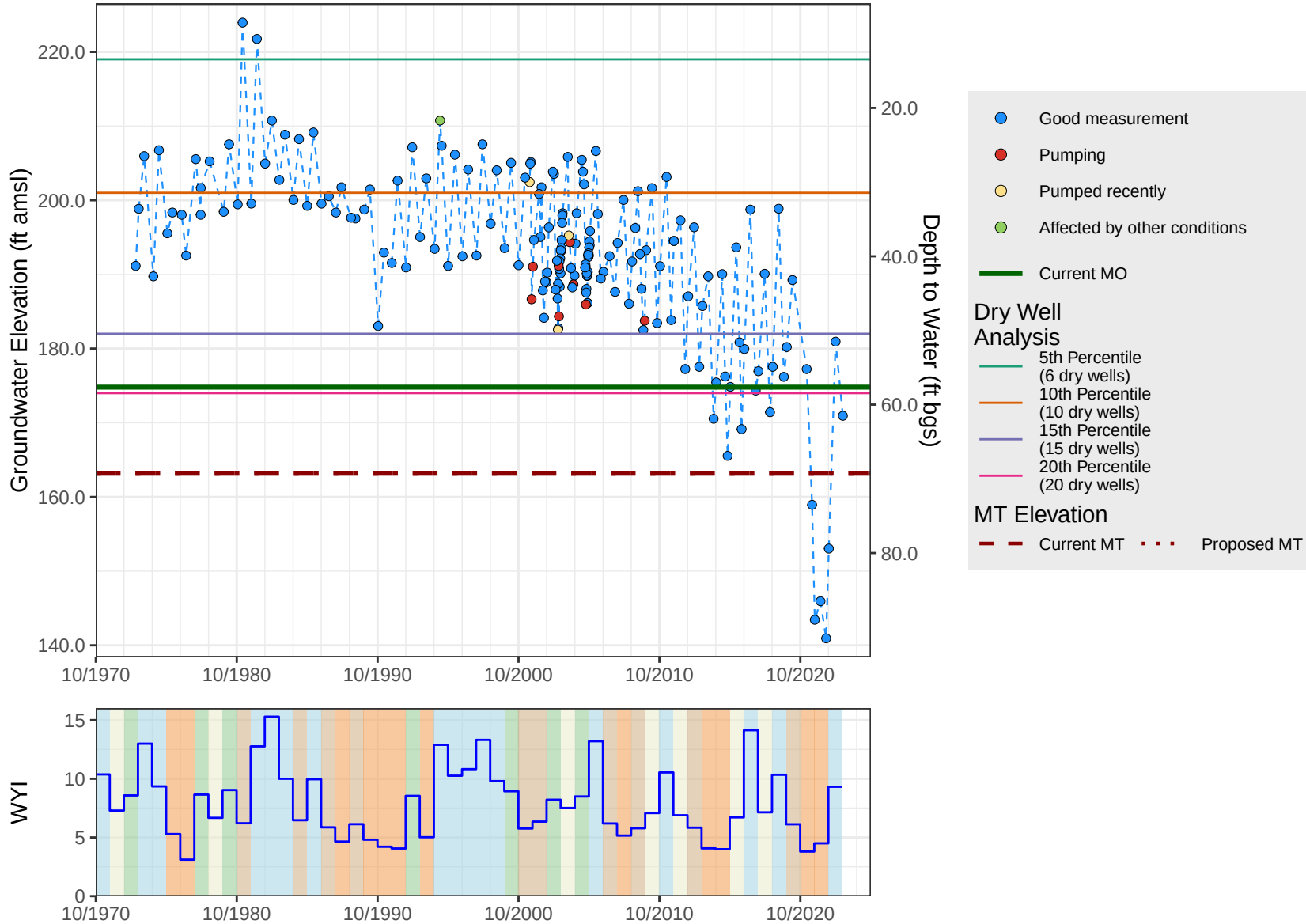
Upper Aquifer (Shallow Zone)  Well Depth: 124 ft.  Perforation top & bottom: 112 − 123 ft bgs




Area: Within Special Zone
Basis: Current MT
GWE: 163.2 ft amsl
DTW: 69.24 ft bgs

SMC
IM (2027) = 174.8 ft amsl
MO = 174.8 ft amsl
Old MT = 163.2 ft amsl

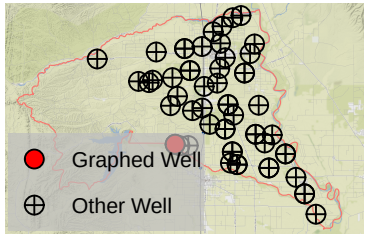
Statistics of Spring WL
Past 20 years (2003 to 2023):
Change = −22.9 ft
Ave. change = −1.15 ft/yr
Ave. WL = 200.25 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 98 | 67 | 21 | 0 | 0 | 10 |
| *Number and Percent Impacted* | 26 (27%) | 15 (15%) | 2 (2%) | 0 (0%) | 0 (0%) | 9 (9%) |

# Corning Subbasin − State Well Number (SWN) 22N04W01A002M

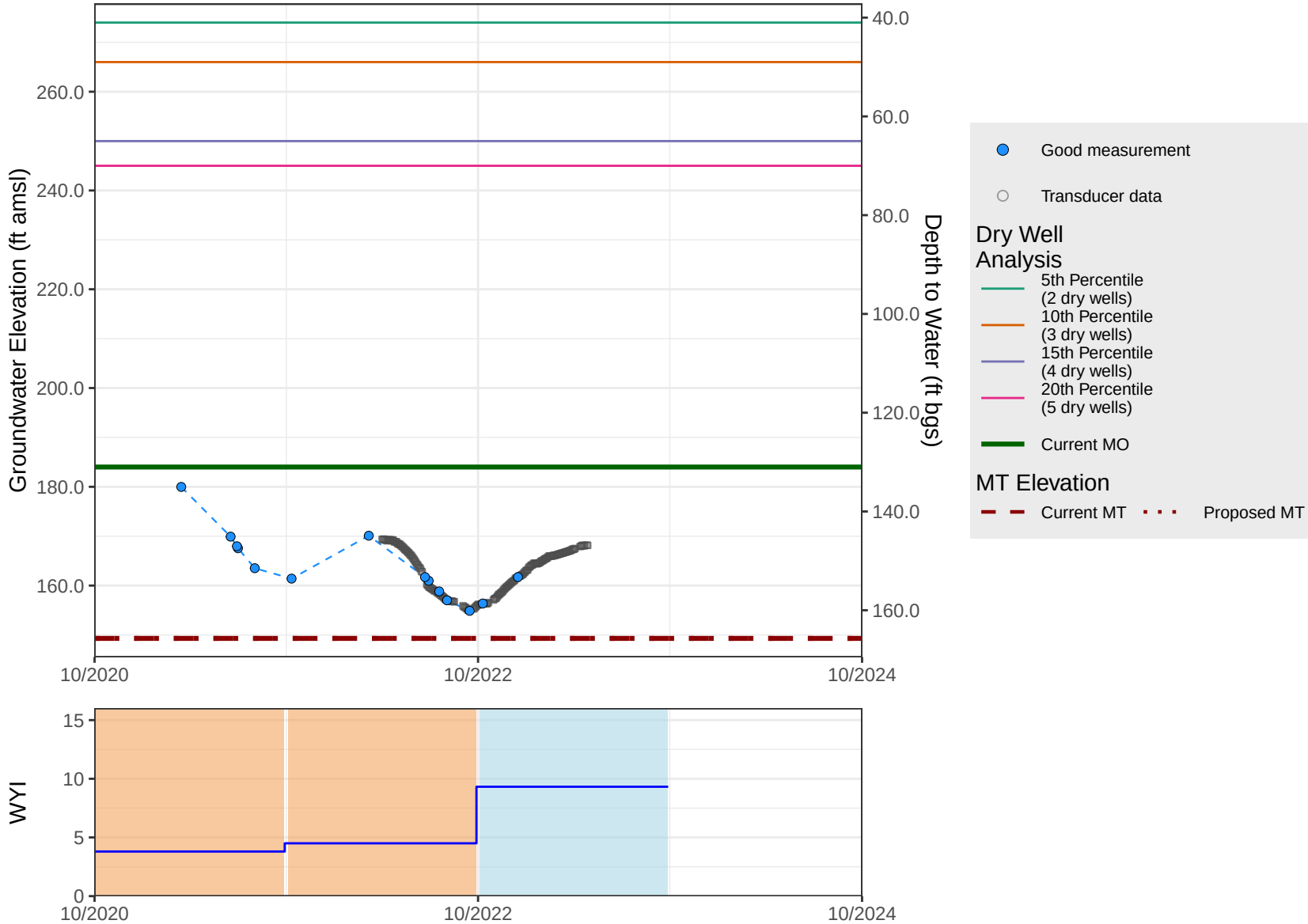
Upper Aquifer (Deep Zone)  Well Depth: 550 ft.  Perforation top & bottom: 520 − 530 ft bgs




Area: Outside of Special Zon
Basis: Current MT
GWE: 149.3 ft amsl
DTW: 165.7 ft bgs

SMC
IM (2027) = 184.0 ft amsl
MO = 184.0 ft amsl
Old MT = 149.3 ft amsl

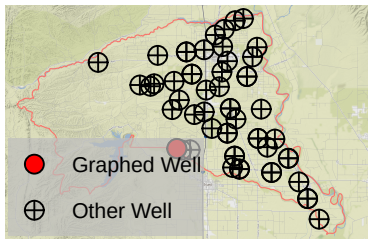
Sufficient data not available f
spring WL statistics for 3 yea




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 24 | 8 | 16 | 0 | 0 | 0 |
| *Number and Percent Impacted* | 11 (46%) | 6 (25%) | 5 (21%) | 0 (0%) | 0 (0%) | 0 (0%) |

# Corning Subbasin − State Well Number (SWN) 22N04W01A004M

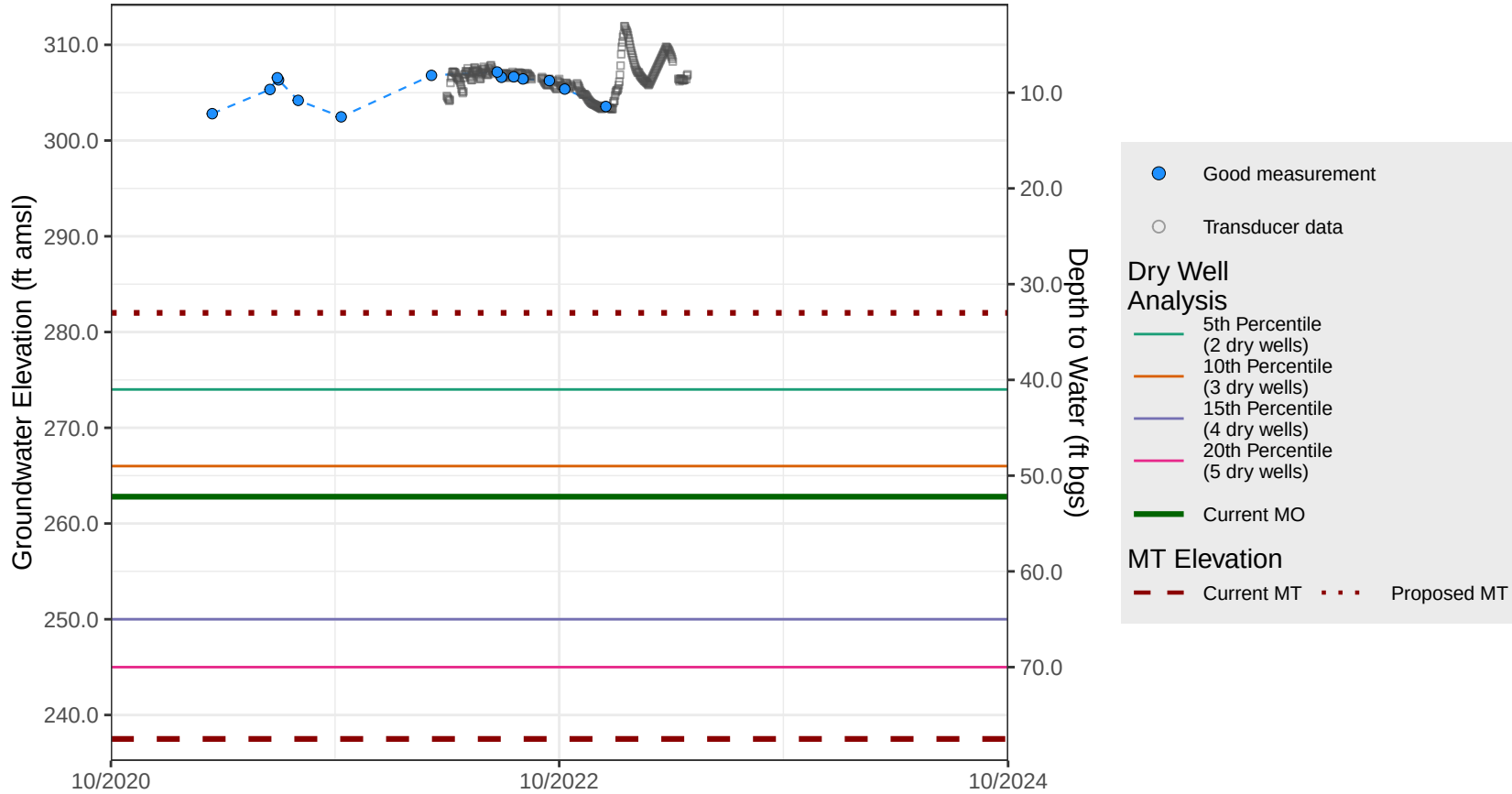
Upper Aquifer (Shallow Zone)  Well Depth: 70 ft.  Perforation top & bottom: 40 − 50 ft bgs

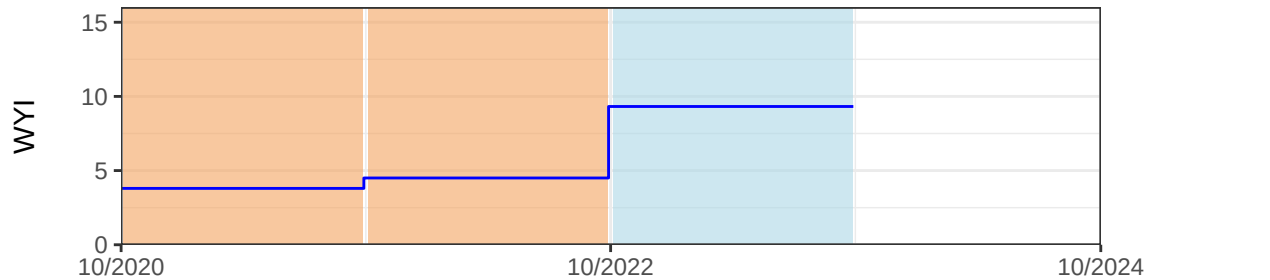



Area: Outside of Special Zone
Basis: 2020−2022 low −20 ft
GWE: 282 ft amsl
DTW: 33 ft bgs

SMC
IM (2027) = 262.8 ft amsl
MO = 262.8 ft amsl
Old MT = 237.5 ft amsl

Sufficient data not available fo
spring WL statistics for 3 year

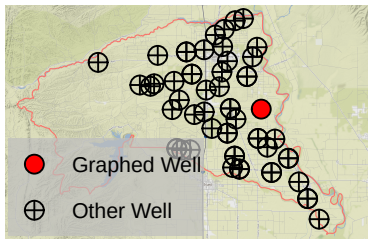



| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 24 | 8 | 16 | 0 | 0 | 0 |
| *Number and Percent Impacted* | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |

# Corning Subbasin − State Well Number (SWN) 23N02W16B001M

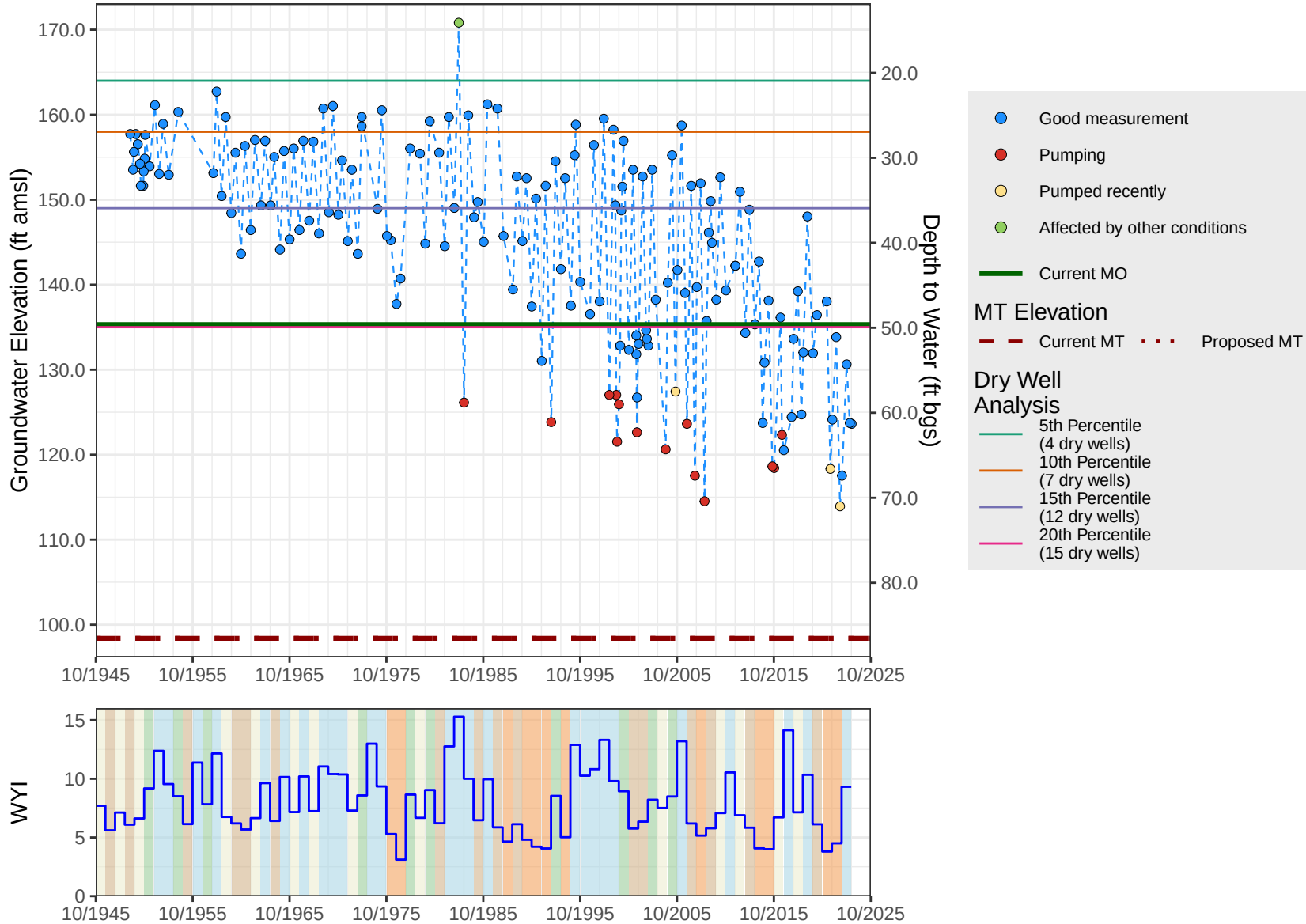
Upper Aquifer (Shallow Zone)  Well Depth: 120 ft.  Perforation top & bottom: 100 − 120 ft bgs




Area: Outside of Special Zone
Basis: Current MT
GWE: 98.4 ft amsl
DTW: 86.53 ft bgs

SMC
IM (2027) = 132.8 ft amsl
MO = 135.3 ft amsl
Old MT = 98.4 ft amsl

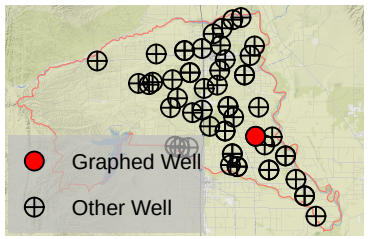
Statistics of Spring WL
Past 20 years (2003 to 2023):
Change = −22.9 ft
Ave. change = −1.15 ft/yr
Ave. WL = 153.51 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 72 | 31 | 37 | 0 | 0 | 4 |
| *Number and Percent Impacted* | 33 (46%) | 14 (19%) | 17 (24%) | 0 (0%) | 0 (0%) | 2 (3%) |

# Corning Subbasin − State Well Number (SWN) 23N02W28N002M

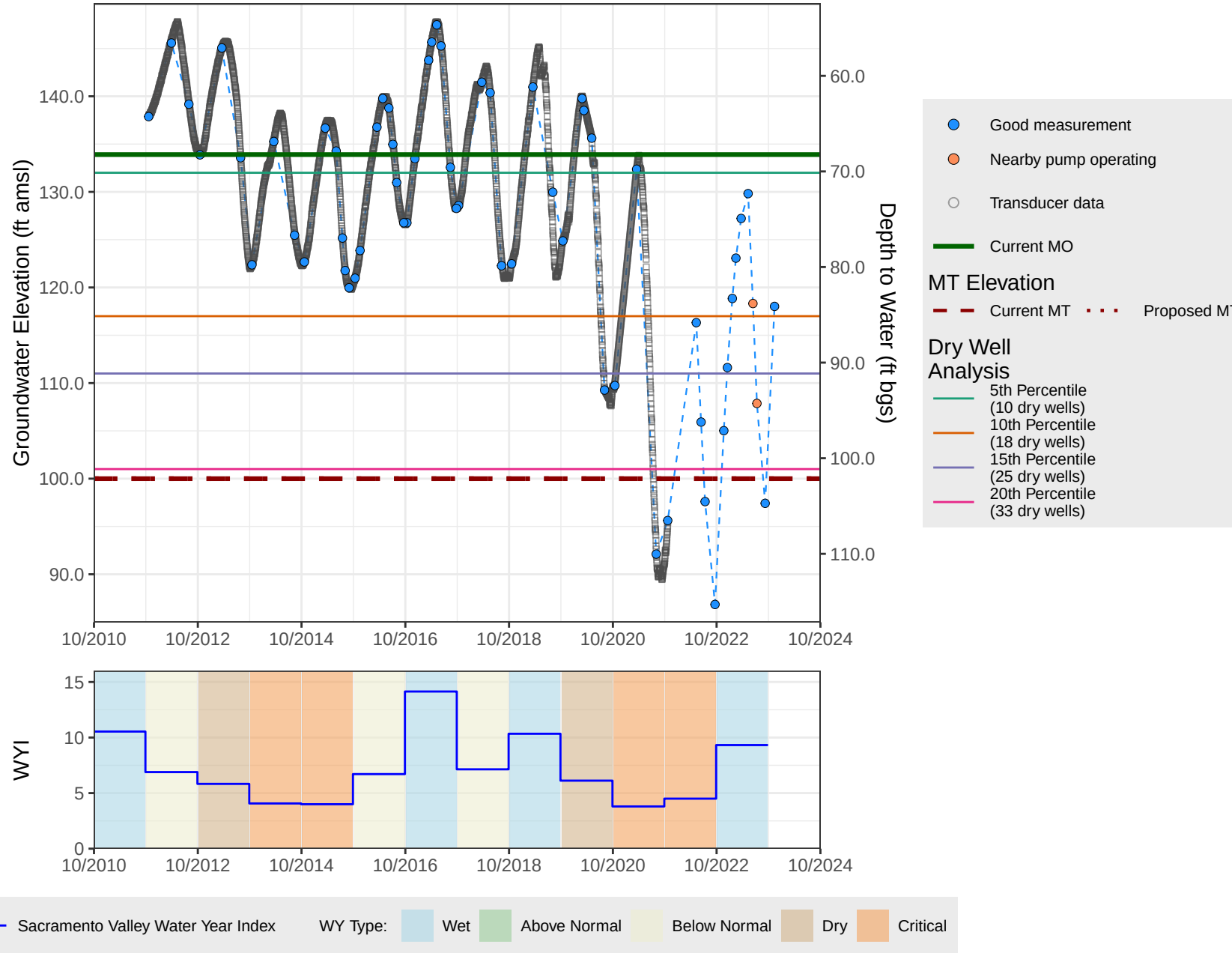
Upper Aquifer (Deep Zone)  Well Depth: 580 ft.  Perforation top & bottom: 550 − 570 ft bgs




Area: Within Special Zone
Basis: Current MT
GWE: 100 ft amsl
DTW: 102.14 ft bgs

SMC
IM (2027) = 127.1 ft amsl
MO = 133.9 ft amsl
Old MT = 100.0 ft amsl

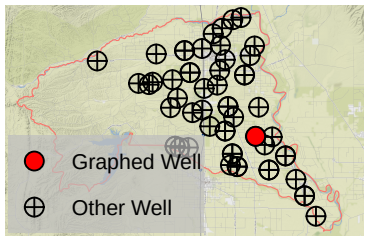
Statistics of Spring WL
Past 11 years (2012 to 2023)
Change = −18.35 ft
Ave. change = −1.67 ft/yr
Ave. WL = 139.07 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 165 | 80 | 82 | 0 | 0 | 3 |
| *Number and Percent Impacted* | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |

# Corning Subbasin − State Well Number (SWN) 23N02W28N004M

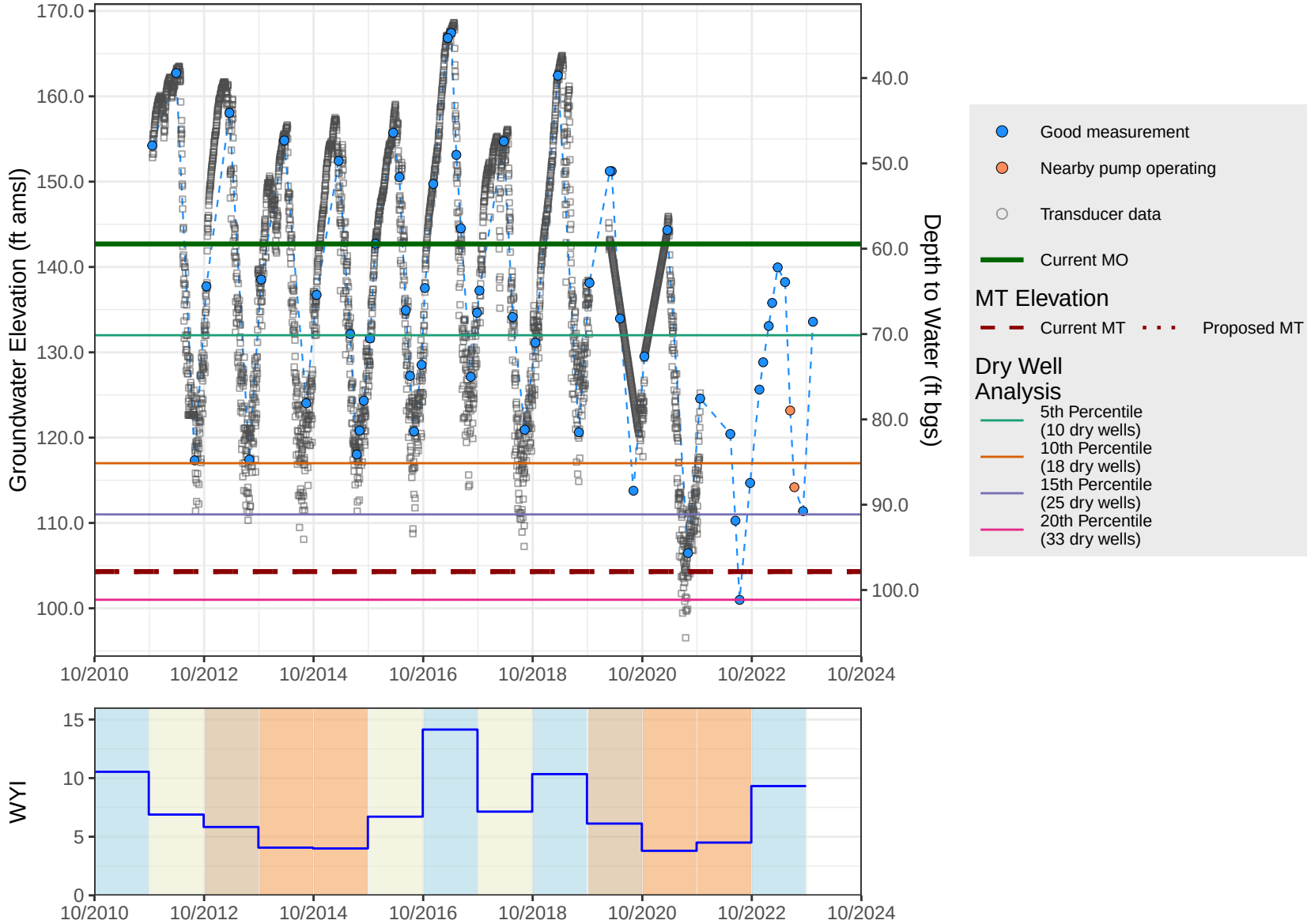
Upper Aquifer (Shallow Zone)  Well Depth: 205 ft.  Perforation top & bottom: 100 − 170 ft bgs




Area: Within Special Zone
Basis: Current MT
GWE: 104.3 ft amsl
DTW: 97.84 ft bgs

SMC
IM (2027) = 139.3 ft amsl
MO = 142.7 ft amsl
Old MT = 104.3 ft amsl

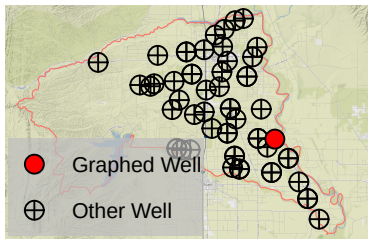
Statistics of Spring WL
Past 11 years (2012 to 2023)
Change = −22.78 ft
Ave. change = −2.07 ft/yr
Ave. WL = 154.9 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 165 | 80 | 82 | 0 | 0 | 3 |
| *Number and Percent Impacted* | 28 (17%) | 23 (14%) | 5 (3%) | 0 (0%) | 0 (0%) | 0 (0%) |

# Corning Subbasin − State Well Number (SWN) 23N02W34A003M

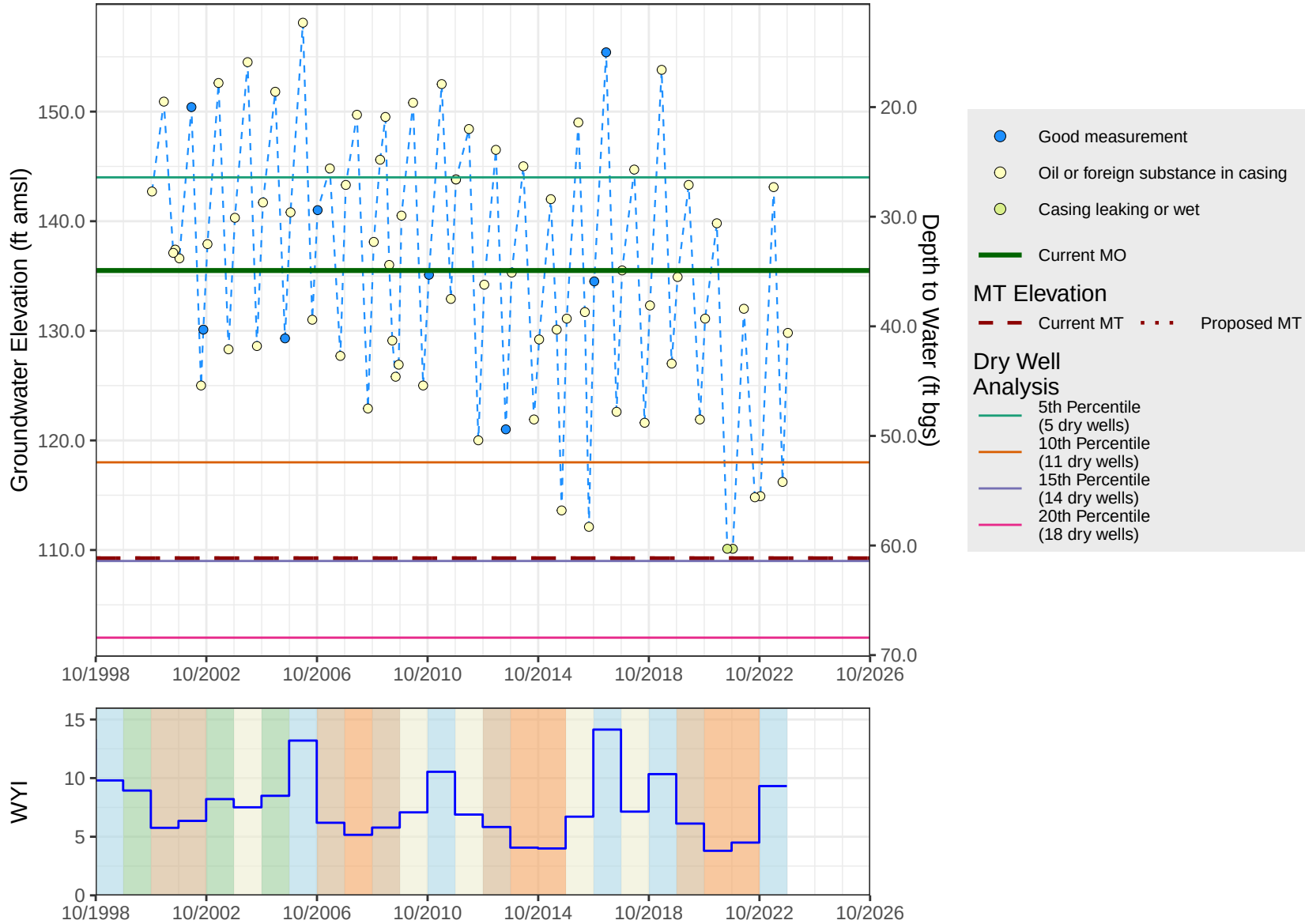
Upper Aquifer (Shallow Zone)  Well Depth: 125 ft.  Perforation top & bottom: 104 − 124 ft bgs




Area: Outside of Special Zone
Basis: Current MT
GWE: 109.2 ft amsl
DTW: 61.21 ft bgs

SMC
IM (2027) = 135.1 ft amsl
MO = 135.5 ft amsl
Old MT = 109.2 ft amsl

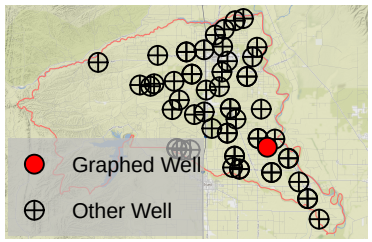
Statistics of Spring WL
Past 20 years (2003 to 2023):
Change = −9.5 ft
Ave. change = −0.48 ft/yr
Ave. WL = 148.21 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 90 | 54 | 32 | 0 | 0 | 4 |
| *Number and Percent Impacted* | 14 (16%) | 12 (13%) | 2 (2%) | 0 (0%) | 0 (0%) | 0 (0%) |

# Corning Subbasin − State Well Number (SWN) 23N02W34N001M

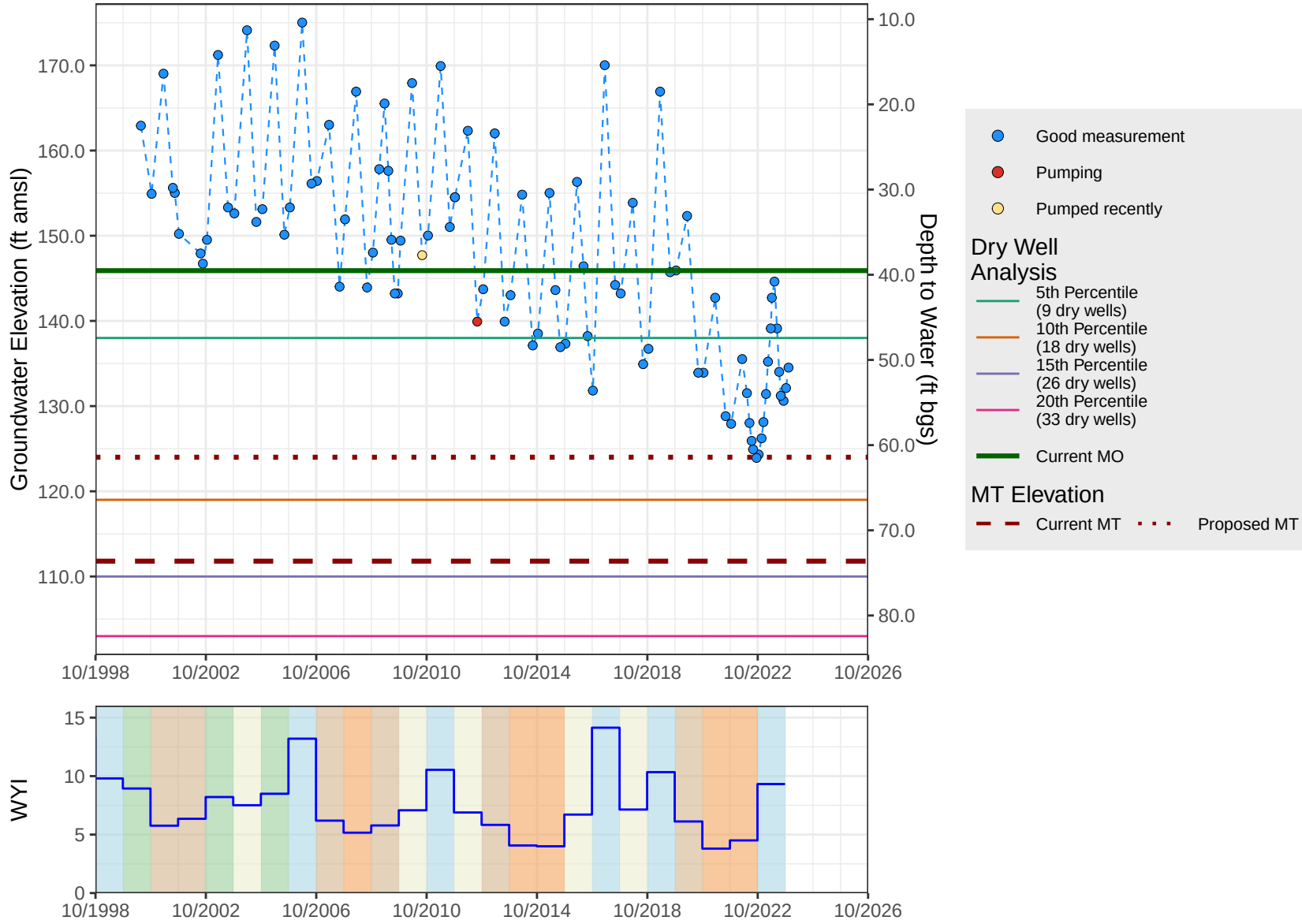
Upper Aquifer (Shallow Zone)  Well Depth: 100 ft.  Perforation top & bottom: 70 − 100 ft bgs




Area: Within Special Zone
Basis: 2020−2022 low
GWE: 124 ft amsl
DTW: 62 ft bgs

SMC
IM (2027) = 145.9 ft amsl
MO = 145.9 ft amsl
Old MT = 111.8 ft amsl

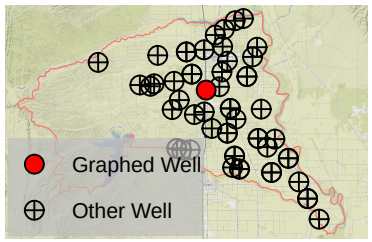
Statistics of Spring WL
Past 20 years (2003 to 2023):
Change = −28.5 ft
Ave. change = −1.43 ft/yr
Ave. WL = 161.34 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 162 | 88 | 64 | 1 | 0 | 9 |
| *Number and Percent Impacted* | 11 (7%) | 6 (4%) | 1 (1%) | 0 (0%) | 0 (0%) | 4 (2%) |

# Corning Subbasin − State Well Number (SWN) 23N03W04H001M

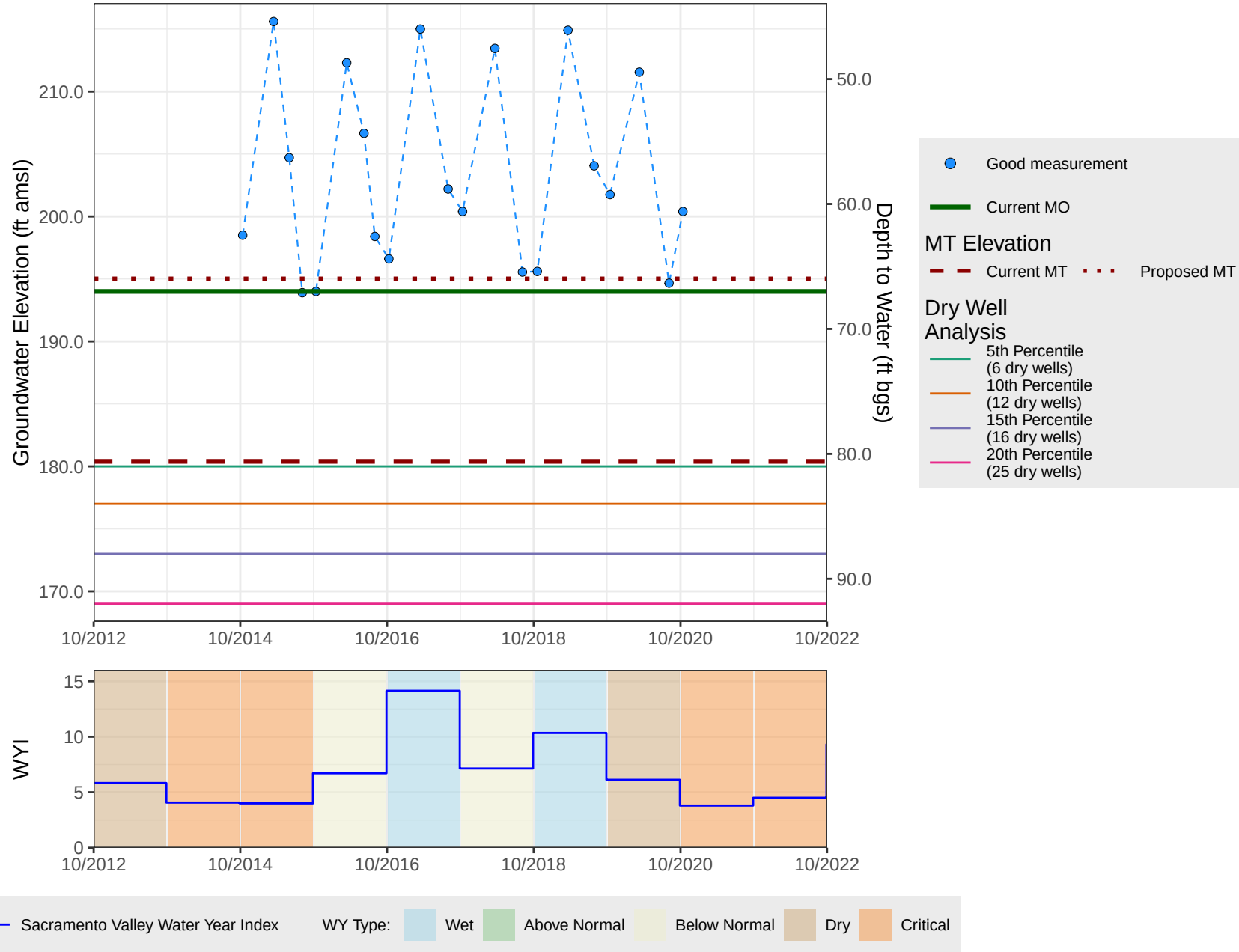
Upper Aquifer (Shallow Zone)  Well Depth: 270 ft.  Perforation top & bottom: 200 − 260 ft bgs




Area: Within Special Zone
Basis: 2020−2022 low
GWE: 195 ft amsl
DTW: 66 ft bgs

SMC
IM (2027) = 194.0 ft amsl
MO = 194.0 ft amsl
Old MT = 180.4 ft amsl

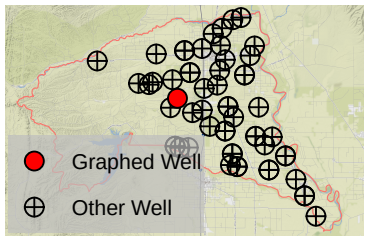
Statistics of Spring WL
Past 5 years (2015 to 2020):
Change = −4.05 ft
Ave. change = −0.81 ft/yr
Ave. WL = 213.8 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 117 | 86 | 20 | 1 | 1 | 9 |
| *Number and Percent Impacted* | 2 (2%) | 2 (2%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |

# Corning Subbasin − State Well Number (SWN) 23N03W07F001M

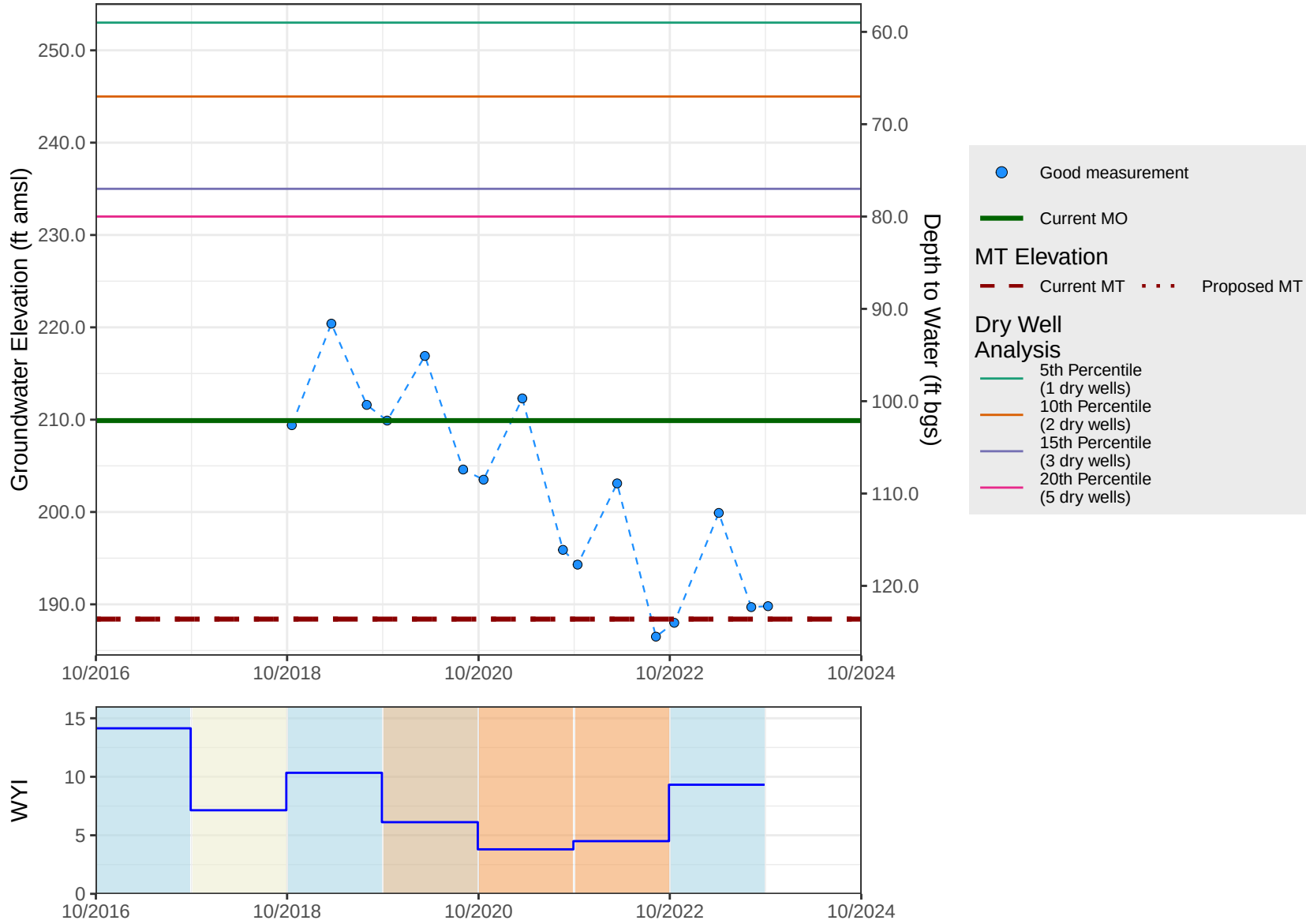
Upper Aquifer (Deep Zone)  Well Depth: 790 ft.  Perforation top & bottom: 240 − 790 ft bgs




Area: Within Special Zone
Basis: Current MT
GWE: 188.4 ft amsl
DTW: 123.6 ft bgs

SMC
IM (2027) = 209.9 ft amsl
MO = 209.9 ft amsl
Old MT = 188.4 ft amsl

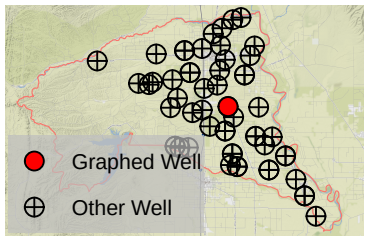
Statistics of Spring WL
Past 4 years (2019 to 2023):
Change = −20.5 ft
Ave. change = −5.12 ft/yr
Ave. WL = 210.52 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 20 | 10 | 7 | 0 | 0 | 3 |
| *Number and Percent Impacted* | 7 (35%) | 6 (30%) | 0 (0%) | 0 (0%) | 0 (0%) | 1 (5%) |

# Corning Subbasin − State Well Number (SWN) 23N03W13C004M

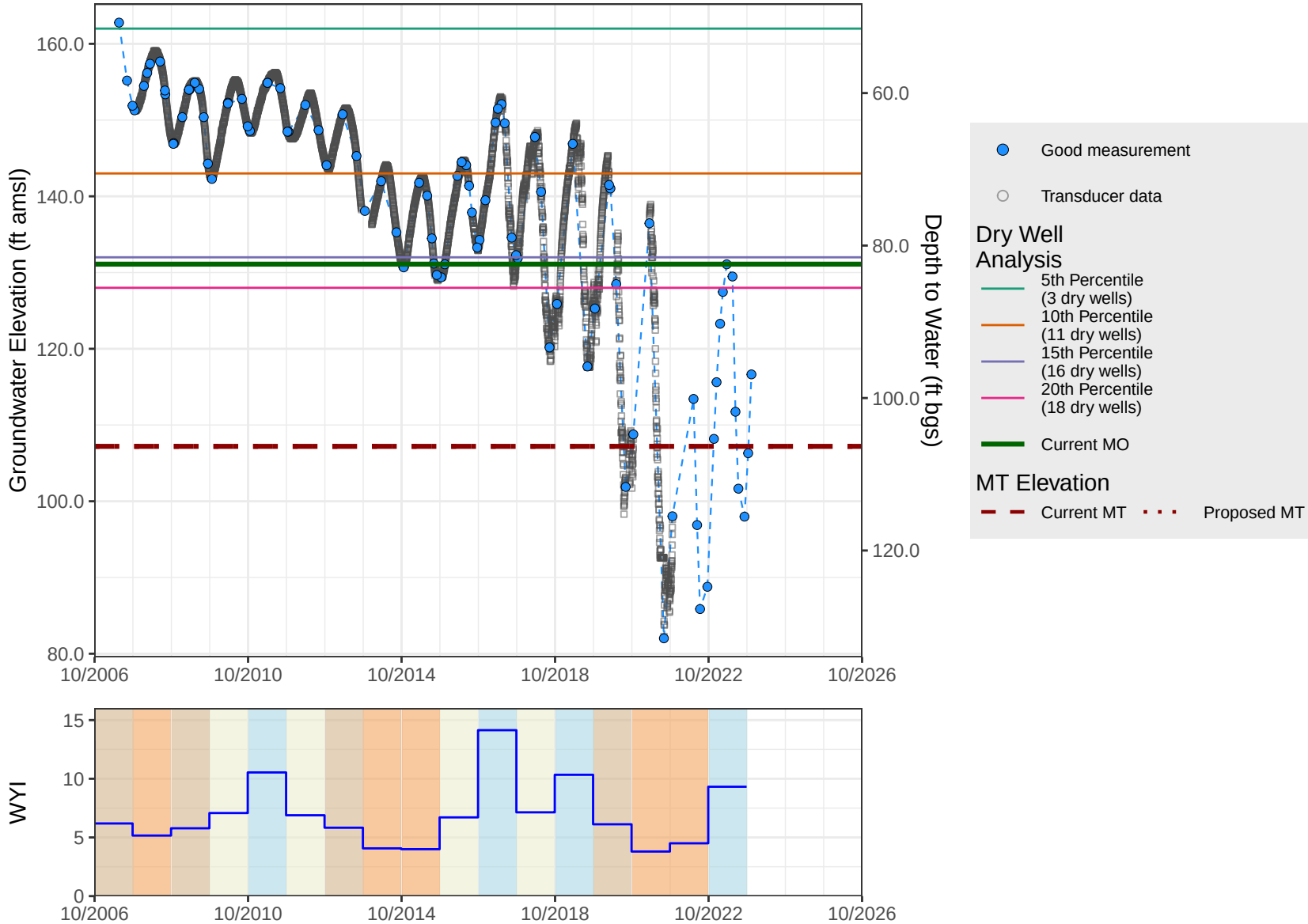
Upper Aquifer (Deep Zone)  Well Depth: 835 ft.  Perforation top & bottom: 815 − 825 ft bgs




Area: Within Special Zone
Basis: Current MT
GWE: 107.2 ft amsl
DTW: 106.34 ft bgs

SMC
IM (2027) = 126.7 ft amsl
MO = 131.1 ft amsl
Old MT = 107.2 ft amsl

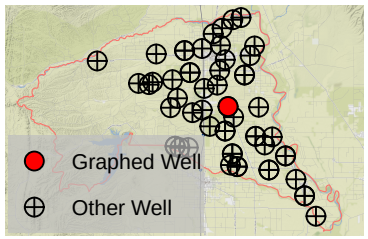
Statistics of Spring WL
Past 15 years (2008 to 2023)
Change = −26.3 ft
Ave. change = −1.75 ft/yr
Ave. WL = 146.98 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 102 | 75 | 23 | 0 | 1 | 3 |
| *Number and Percent Impacted* | 39 (38%) | 31 (30%) | 5 (5%) | 0 (0%) | 0 (0%) | 3 (3%) |

# Corning Subbasin − State Well Number (SWN) 23N03W13C006M

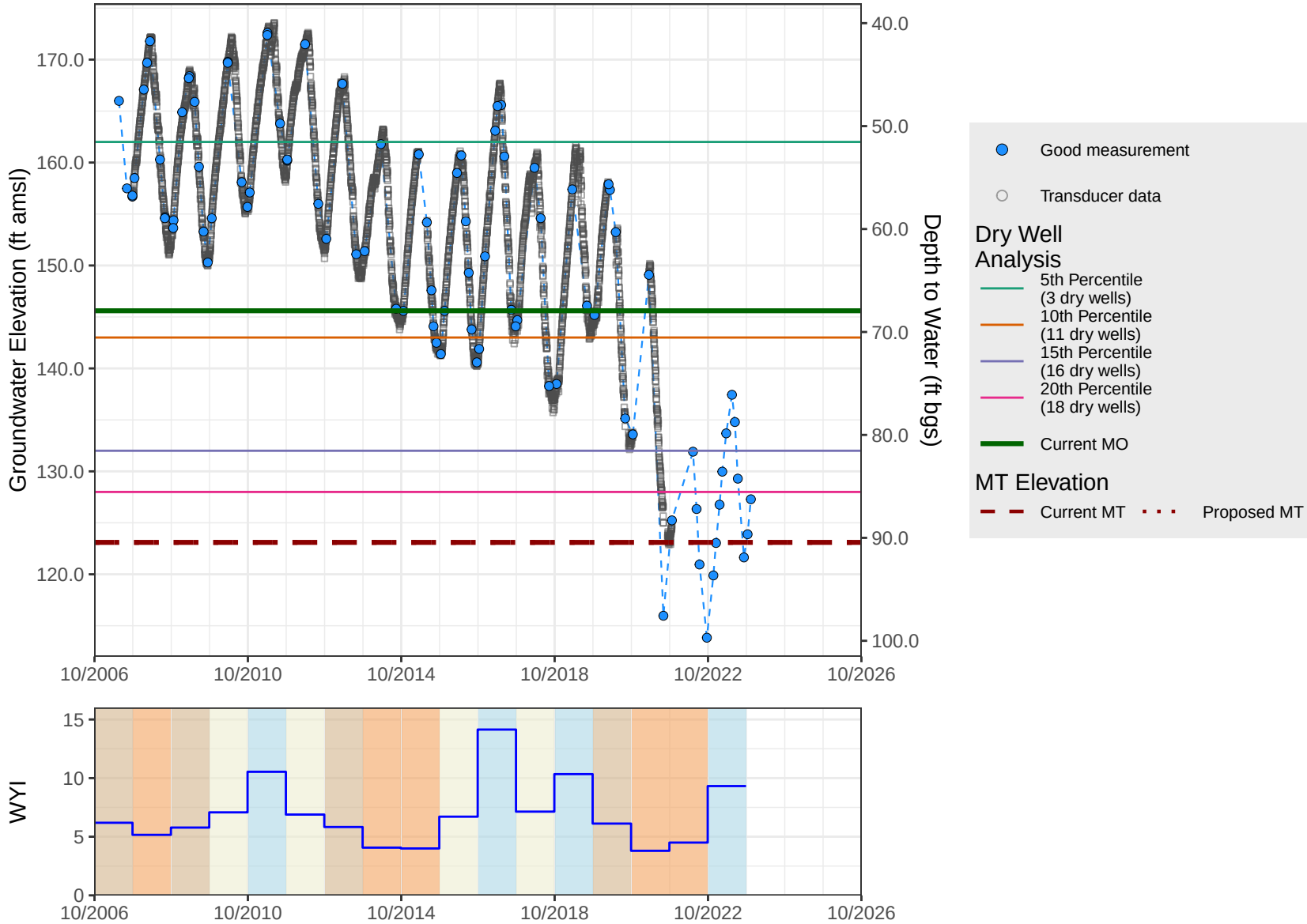
Upper Aquifer (Shallow Zone)  Well Depth: 182 ft.  Perforation top & bottom: 95 − 135 ft bgs




Area: Within Special Zone
Basis: Current MT
GWE: 123.1 ft amsl
DTW: 90.44 ft bgs

SMC
IM (2027) = 145.3 ft amsl
MO = 145.6 ft amsl
Old MT = 123.1 ft amsl

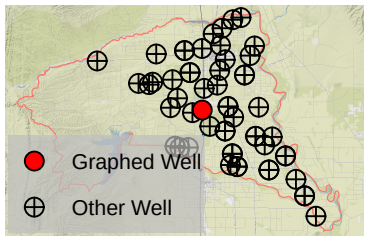
Statistics of Spring WL
Past 15 years (2008 to 2023)
Change = −38.1 ft
Ave. change = −2.54 ft/yr
Ave. WL = 161.87 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 102 | 75 | 23 | 0 | 1 | 3 |
| *Number and Percent Impacted* | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |

# Corning Subbasin − State Well Number (SWN) 23N03W16H001M

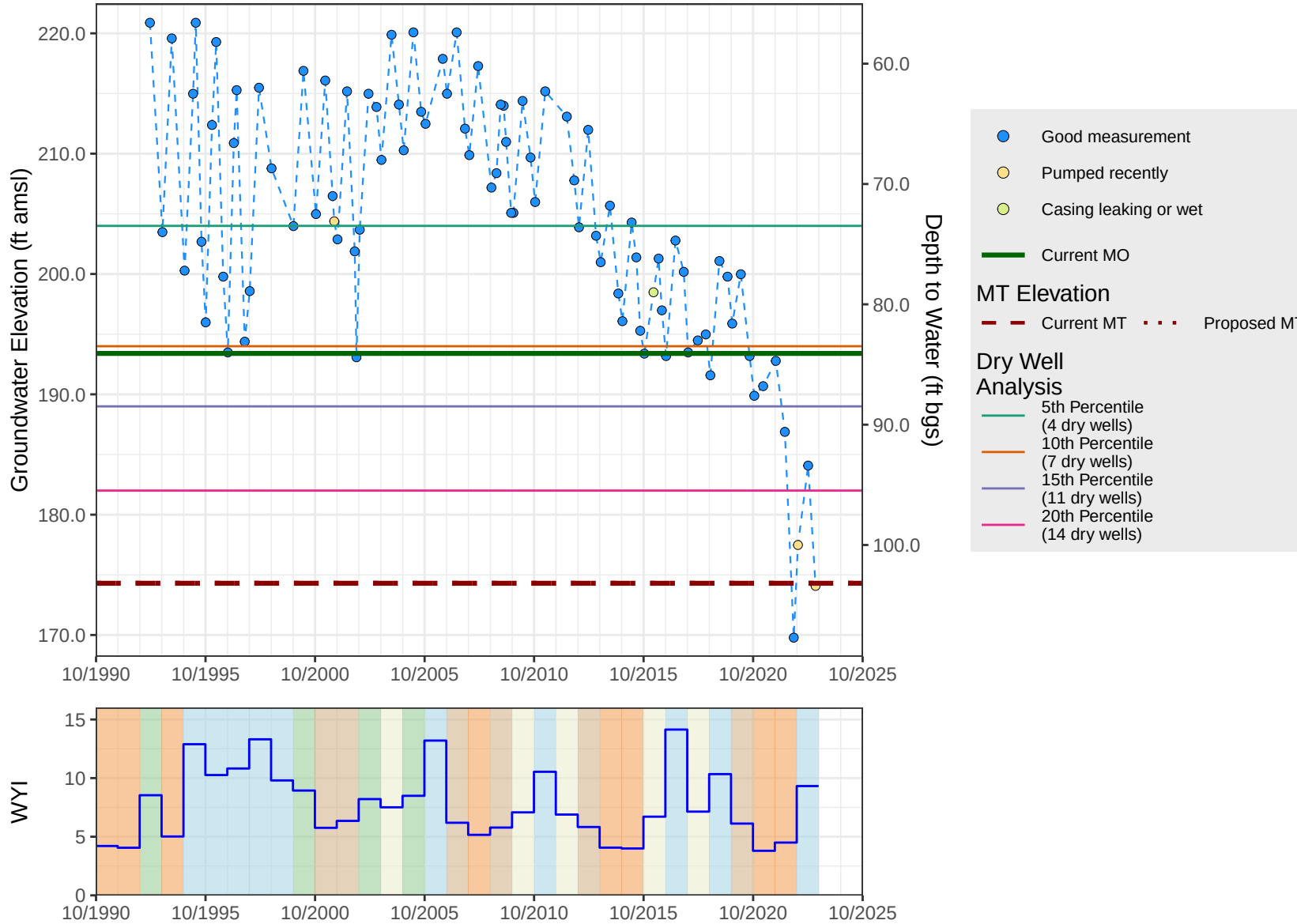
Upper Aquifer (Shallow Zone)  Well Depth: 150 ft.  Perforation top & bottom: 144 − 150 ft bgs




Area: Within Special Zone
Basis: Current MT
GWE: 174.3 ft amsl
DTW: 103.18 ft bgs

SMC
IM (2027) = 193.4 ft amsl
MO = 193.4 ft amsl
Old MT = 174.3 ft amsl

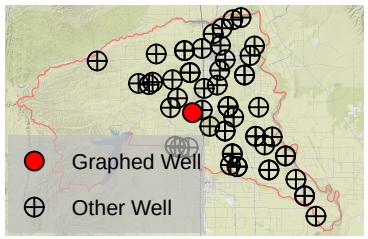
Statistics of Spring WL
Past 20 years (2003 to 2023)
Change = −30.9 ft
Ave. change = −1.54 ft/yr
Ave. WL = 209.96 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 67 | 49 | 16 | 0 | 0 | 2 |
| *Number and Percent Impacted* | 16 (24%) | 13 (19%) | 2 (3%) | 0 (0%) | 0 (0%) | 1 (1%) |

# Corning Subbasin − State Well Number (SWN) 23N03W17R001M

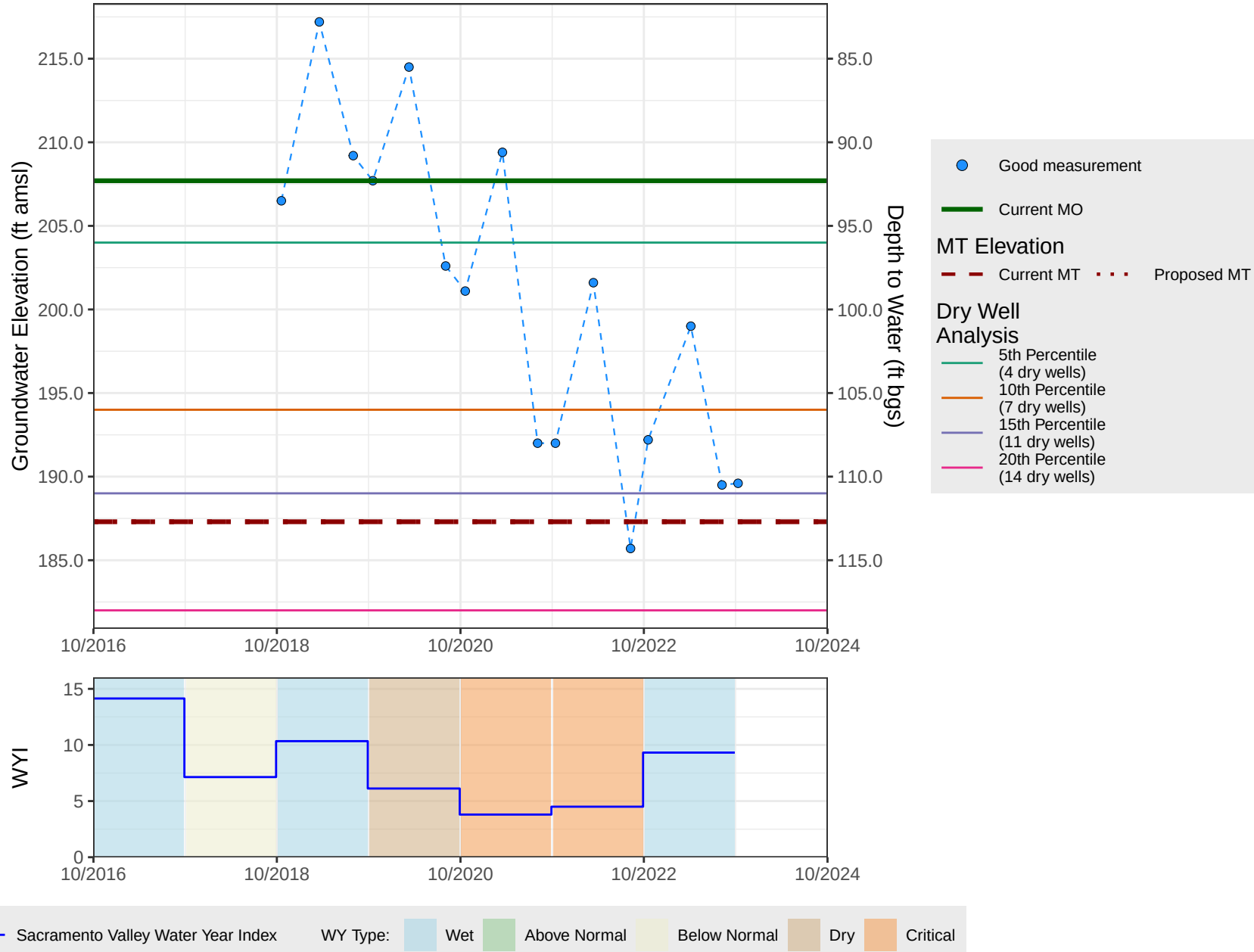
Upper Aquifer (Deep Zone)  Well Depth: 720 ft.  Perforation top & bottom: 360 − 720 ft bgs




Area: Within Special Zone
Basis: Current MT
GWE: 187.3 ft amsl
DTW: 112.7 ft bgs

SMC
IM (2027) = 207.7 ft amsl
MO = 207.7 ft amsl
Old MT = 187.3 ft amsl

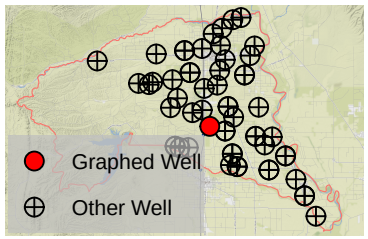
Statistics of Spring WL
Past 4 years (2019 to 2023):
Change = −18.2 ft
Ave. change = −4.55 ft/yr
Ave. WL = 208.34 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 67 | 49 | 16 | 0 | 0 | 2 |
| *Number and Percent Impacted* | 1 (1%) | 1 (1%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |

# Corning Subbasin − State Well Number (SWN) 23N03W22Q001M

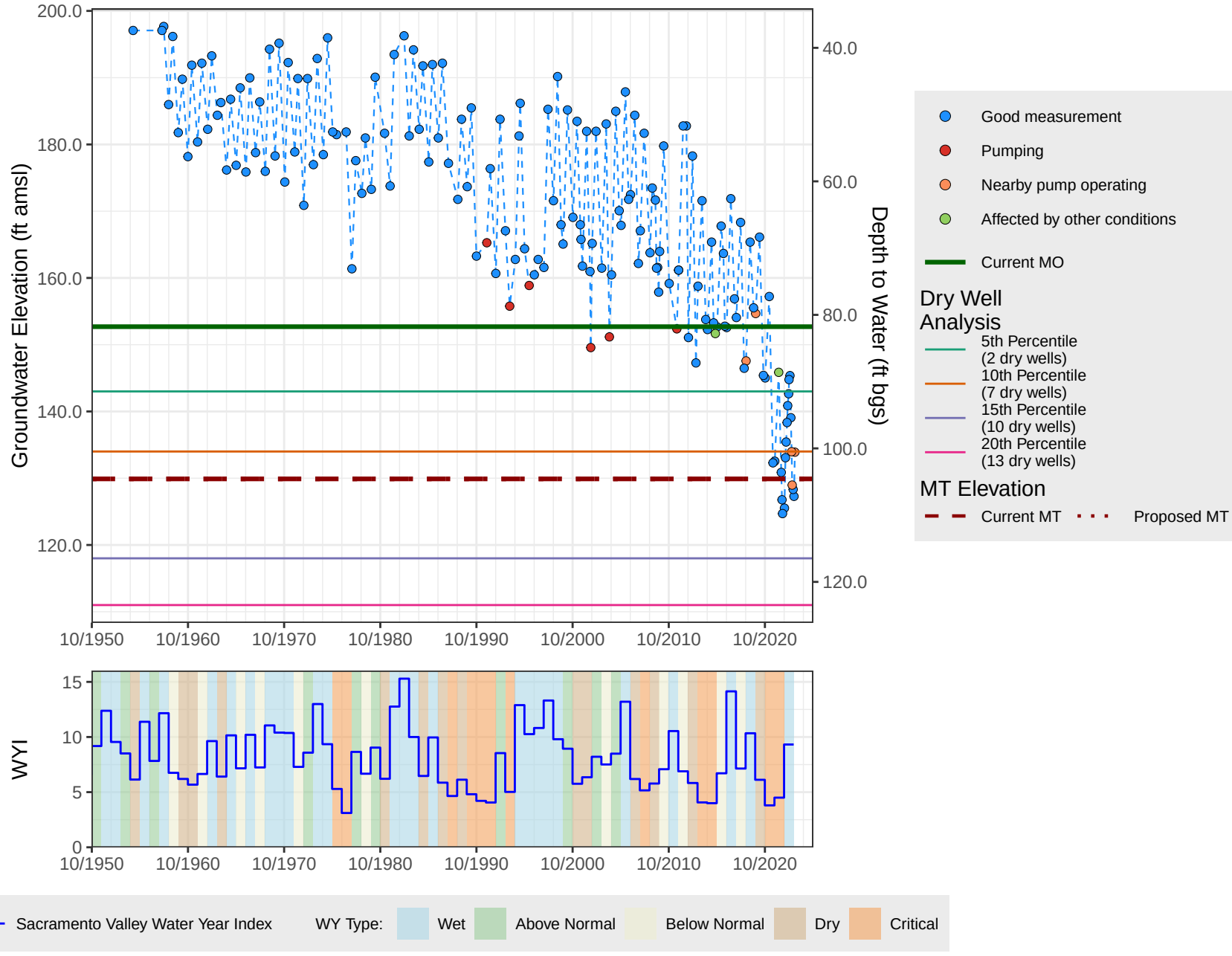
Upper Aquifer (Shallow Zone)  Well Depth: 380 ft.  Perforation top & bottom: Unknown




Area: Within Special Zone
Basis: Current MT
GWE: 129.9 ft amsl
DTW: 104.57 ft bgs

SMC
IM (2027) = 152.7 ft amsl
MO = 152.7 ft amsl
Old MT = 129.9 ft amsl

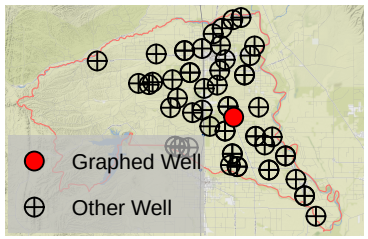
Statistics of Spring WL
Past 20 years (2003 to 2023)
Change = −37.2 ft
Ave. change = −1.86 ft/yr
Ave. WL = 183.01 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 65 | 46 | 18 | 0 | 0 | 1 |
| *Number and Percent Impacted* | 7 (11%) | 6 (9%) | 0 (0%) | 0 (0%) | 0 (0%) | 1 (2%) |

# Corning Subbasin − State Well Number (SWN) 23N03W24A003M

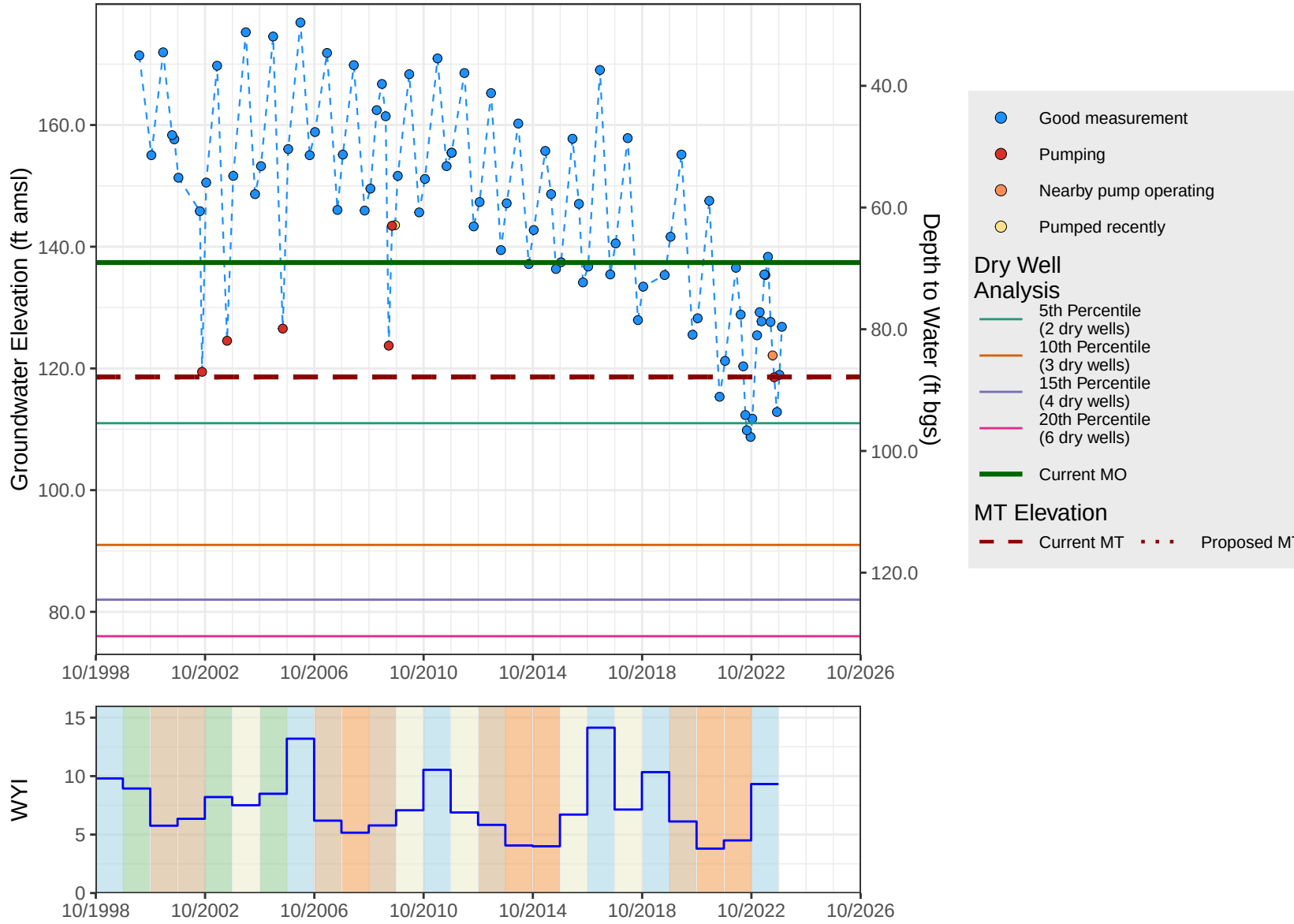
Upper Aquifer (Shallow Zone)  Well Depth: 199 ft.  Perforation top & bottom: 180 − 199 ft bgs




Area: Within Special Zone
Basis: Current MT
GWE: 118.6 ft amsl
DTW: 87.84 ft bgs

SMC
IM (2027) = 137.4 ft amsl
MO = 137.4 ft amsl
Old MT = 118.6 ft amsl

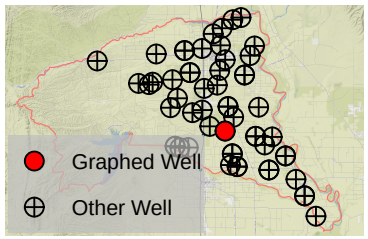
Statistics of Spring WL
Past 20 years (2003 to 2023)
Change = −34.3 ft
Ave. change = −1.72 ft/yr
Ave. WL = 163.1 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 27 | 17 | 10 | 0 | 0 | 0 |
| *Number and Percent Impacted* | 1 (4%) | 1 (4%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |

# Corning Subbasin − State Well Number (SWN) 23N03W25M002M

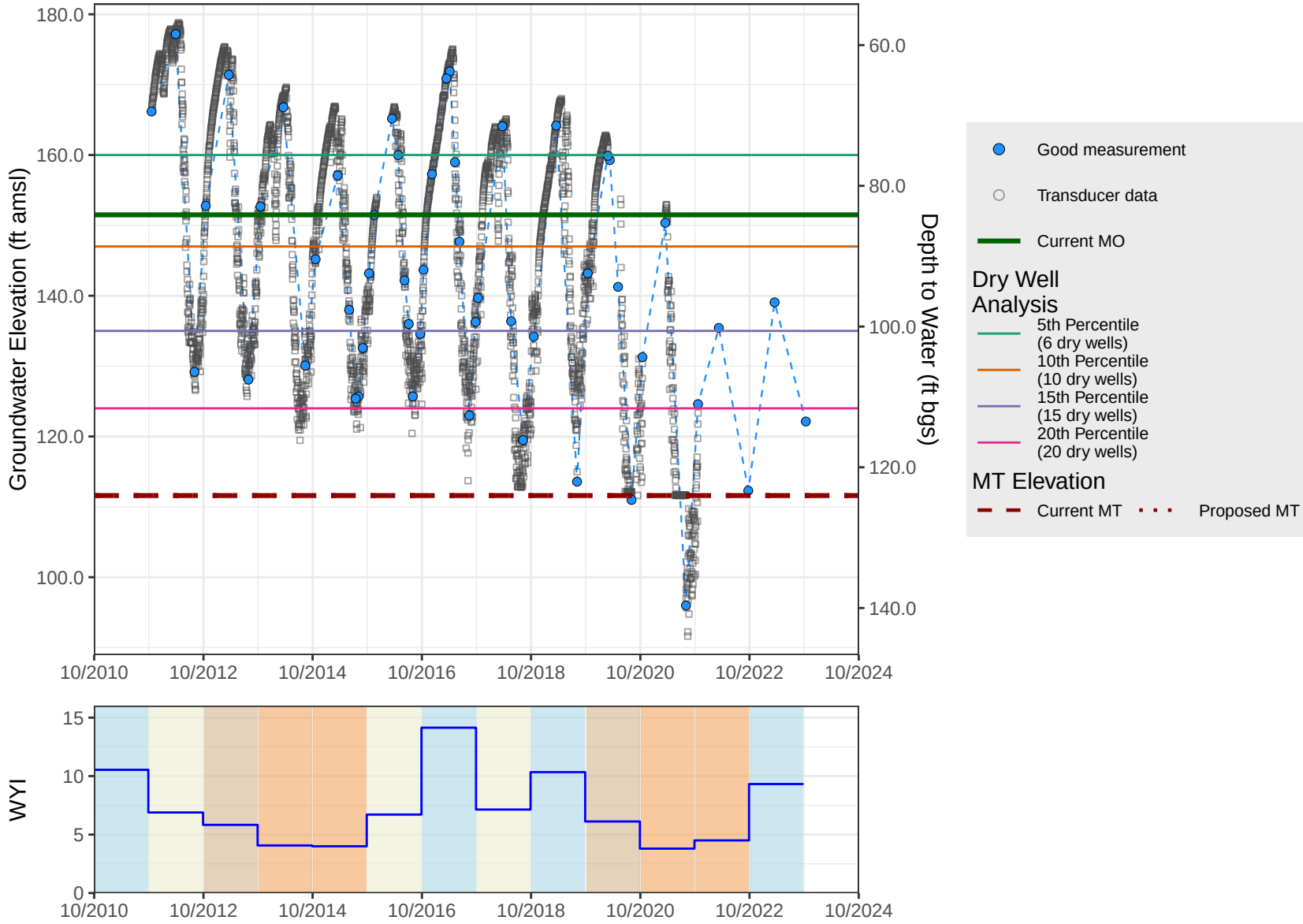
Upper Aquifer (Deep Zone)  Well Depth: 513 ft.  Perforation top & bottom: 470 − 500 ft bgs




Area: Within Special Zone
Basis: Current MT
GWE: 111.6 ft amsl
DTW: 124.02 ft bgs

SMC
IM (2027) = 145.3 ft amsl
MO = 151.5 ft amsl
Old MT = 111.6 ft amsl

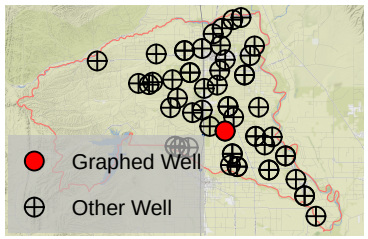
Statistics of Spring WL
Past 11 years (2012 to 2023)
Change = −38.12 ft
Ave. change = −3.47 ft/yr
Ave. WL = 160.21 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 100 | 62 | 29 | 0 | 0 | 9 |
| *Number and Percent Impacted* | 27 (27%) | 23 (23%) | 1 (1%) | 0 (0%) | 0 (0%) | 3 (3%) |

# Corning Subbasin − State Well Number (SWN) 23N03W25M004M

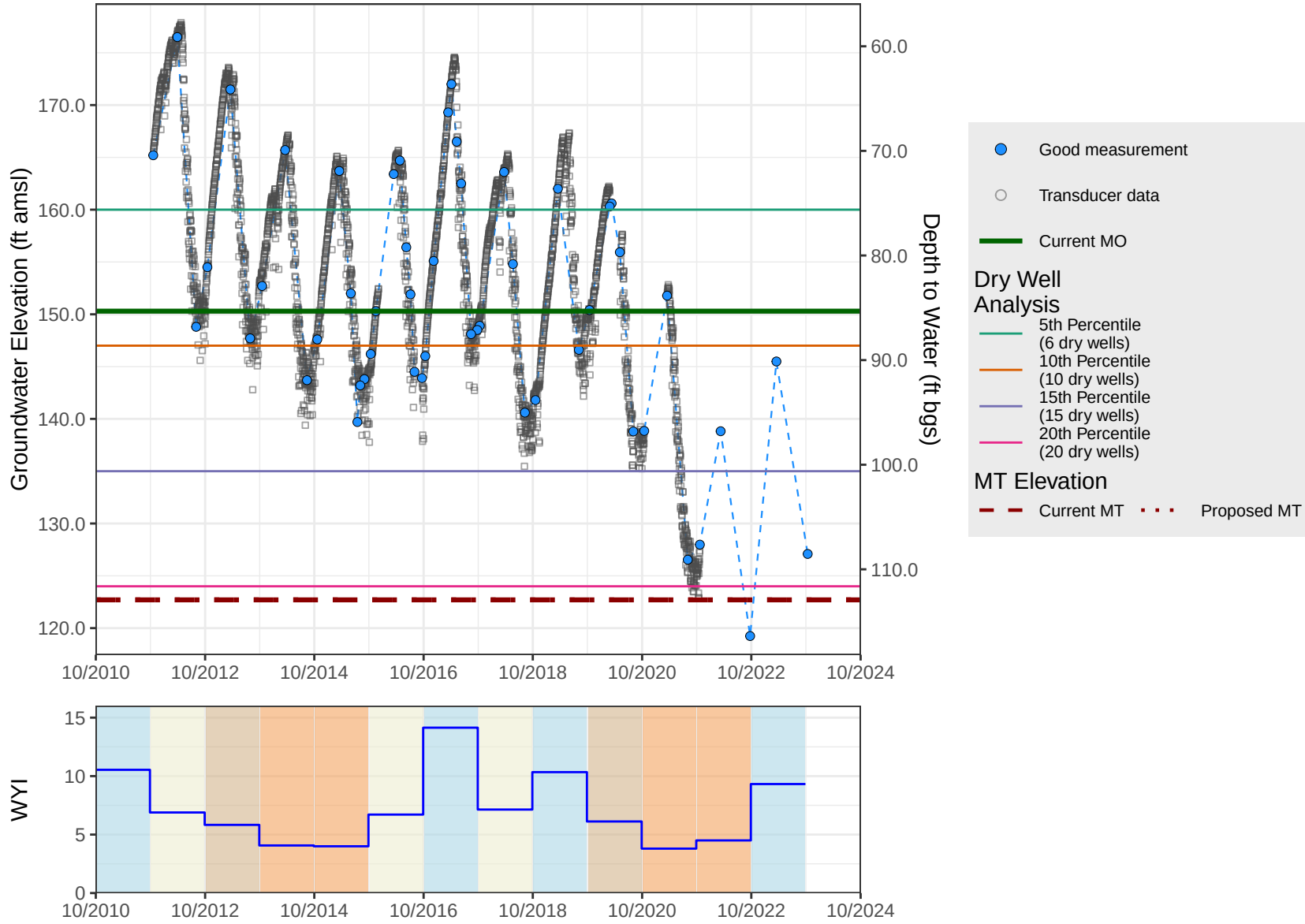
Upper Aquifer (Shallow Zone)  Well Depth: 155 ft.  Perforation top & bottom: 120 − 130 ft bgs




Area: Within Special Zone
Basis: Current MT
GWE: 122.7 ft amsl
DTW: 112.92 ft bgs

SMC
IM (2027) = 150.3 ft amsl
MO = 150.3 ft amsl
Old MT = 122.7 ft amsl

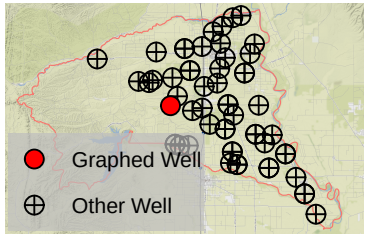
Statistics of Spring WL
Past 11 years (2012 to 2023)
Change = −31.01 ft
Ave. change = −2.82 ft/yr
Ave. WL = 161.36 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 100 | 62 | 29 | 0 | 0 | 9 |
| *Number and Percent Impacted* | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |

# Corning Subbasin − State Well Number (SWN) 23N04W13G001M

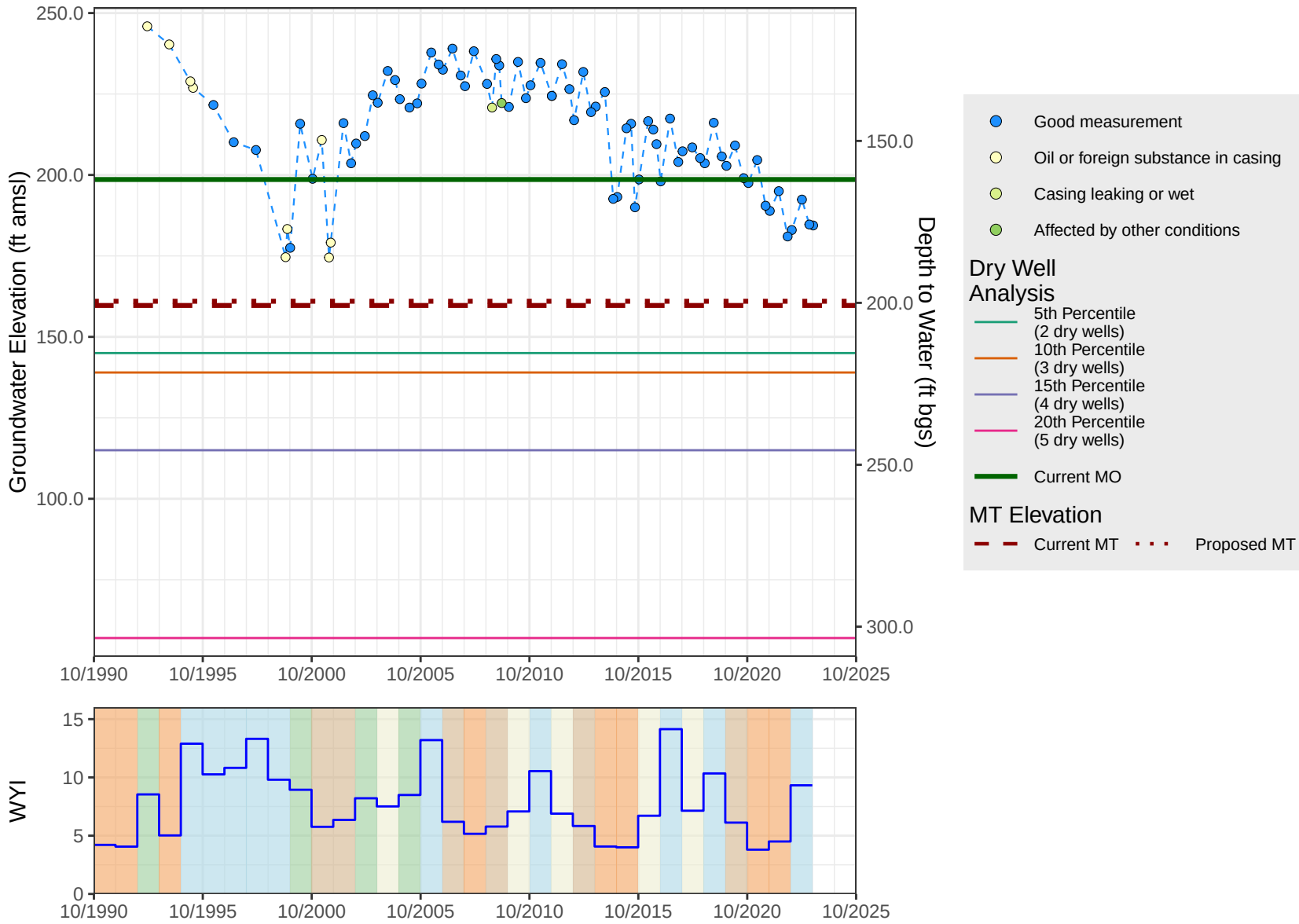
Upper Aquifer (Deep Zone)  Well Depth: 560 ft.  Perforation top & bottom: Unknown




Area: Outside of Special Zon
Basis: 2020−2022 low −20 ft
GWE: 161 ft amsl
DTW: 200 ft bgs

SMC
IM (2027) = 198.6 ft amsl
MO = 198.6 ft amsl
Old MT = 159.7 ft amsl

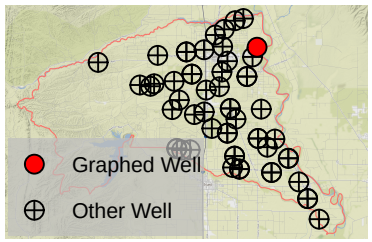
Statistics of Spring WL
Past 20 years (2003 to 2023)
Change = −19.61 ft
Ave. change = −0.98 ft/yr
Ave. WL = 221.61 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 22 | 10 | 10 | 0 | 1 | 1 |
| *Number and Percent Impacted* | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |

# Corning Subbasin − State Well Number (SWN) 24N02W17A001M

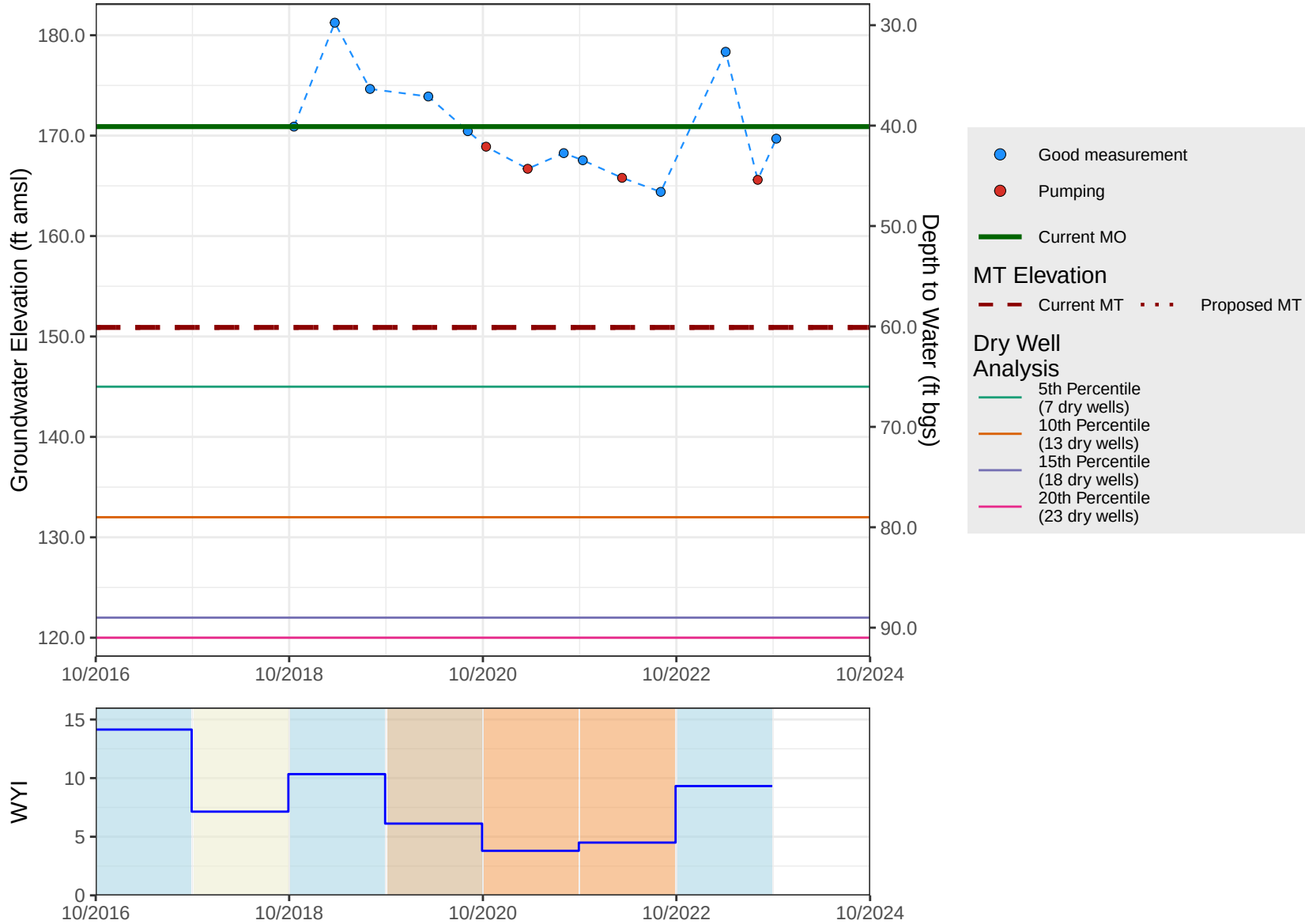
Upper Aquifer (Shallow Zone)  Well Depth: 140 ft.  Perforation top & bottom: 120 − 140 ft bgs




Area: Outside of Special Zone
Basis: Current MT
GWE: 150.9 ft amsl
DTW: 60.1 ft bgs

SMC
IM (2027) = 170.9 ft amsl
MO = 170.9 ft amsl
Old MT = 150.9 ft amsl

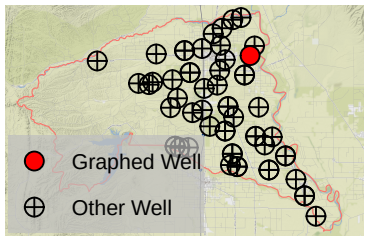
Statistics of Spring WL
Past 4 years (2019 to 2023):
Change = −2.9 ft
Ave. change = −0.73 ft/yr
Ave. WL = 177.83 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 122 | 94 | 25 | 0 | 0 | 3 |
| *Number and Percent Impacted* | 5 (4%) | 3 (2%) | 1 (1%) | 0 (0%) | 0 (0%) | 1 (1%) |

# Corning Subbasin − State Well Number (SWN) 24N02W20B001M

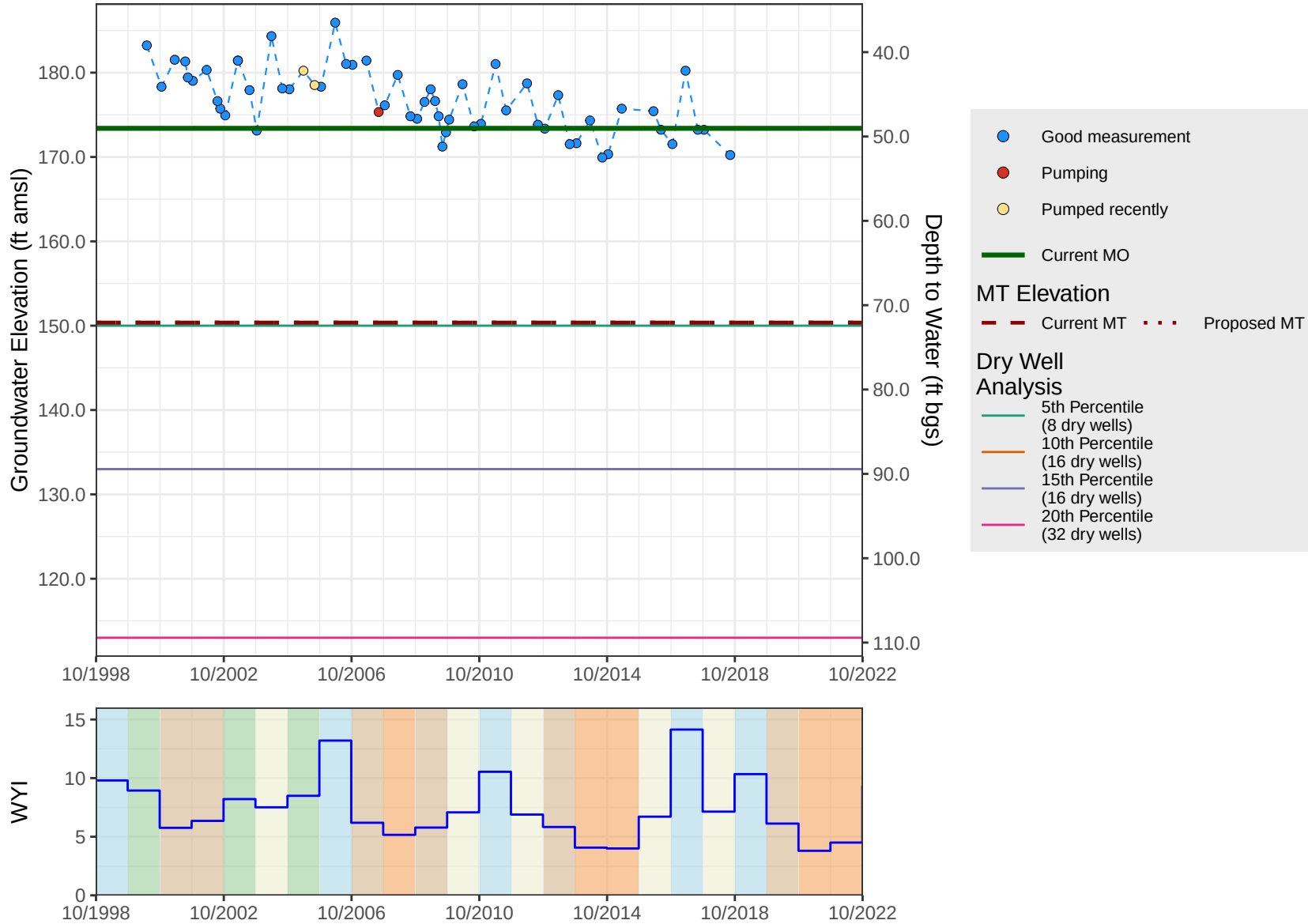
Upper Aquifer (Shallow Zone)  Well Depth: 120 ft.  Perforation top & bottom: 100 − 120 ft bgs




Area: Outside of Special Zon
Basis: Current MT
GWE: 150.3 ft amsl
DTW: 72.13 ft bgs

SMC
IM (2027) = 173.3 ft amsl
MO = 173.4 ft amsl
Old MT = 150.3 ft amsl

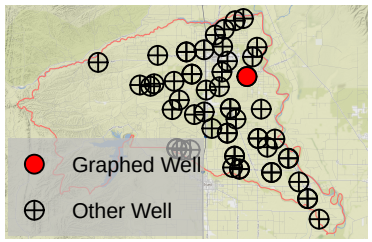
Statistics of Spring WL
Past 14 years (2003 to 2017)
Change = −1.2 ft
Ave. change = −0.09 ft/yr
Ave. WL = 179.64 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 159 | 140 | 15 | 1 | 0 | 3 |
| *Number and Percent Impacted* | 8 (5%) | 5 (3%) | 1 (1%) | 1 (1%) | 0 (0%) | 1 (1%) |

# Corning Subbasin − State Well Number (SWN) 24N02W29N003M

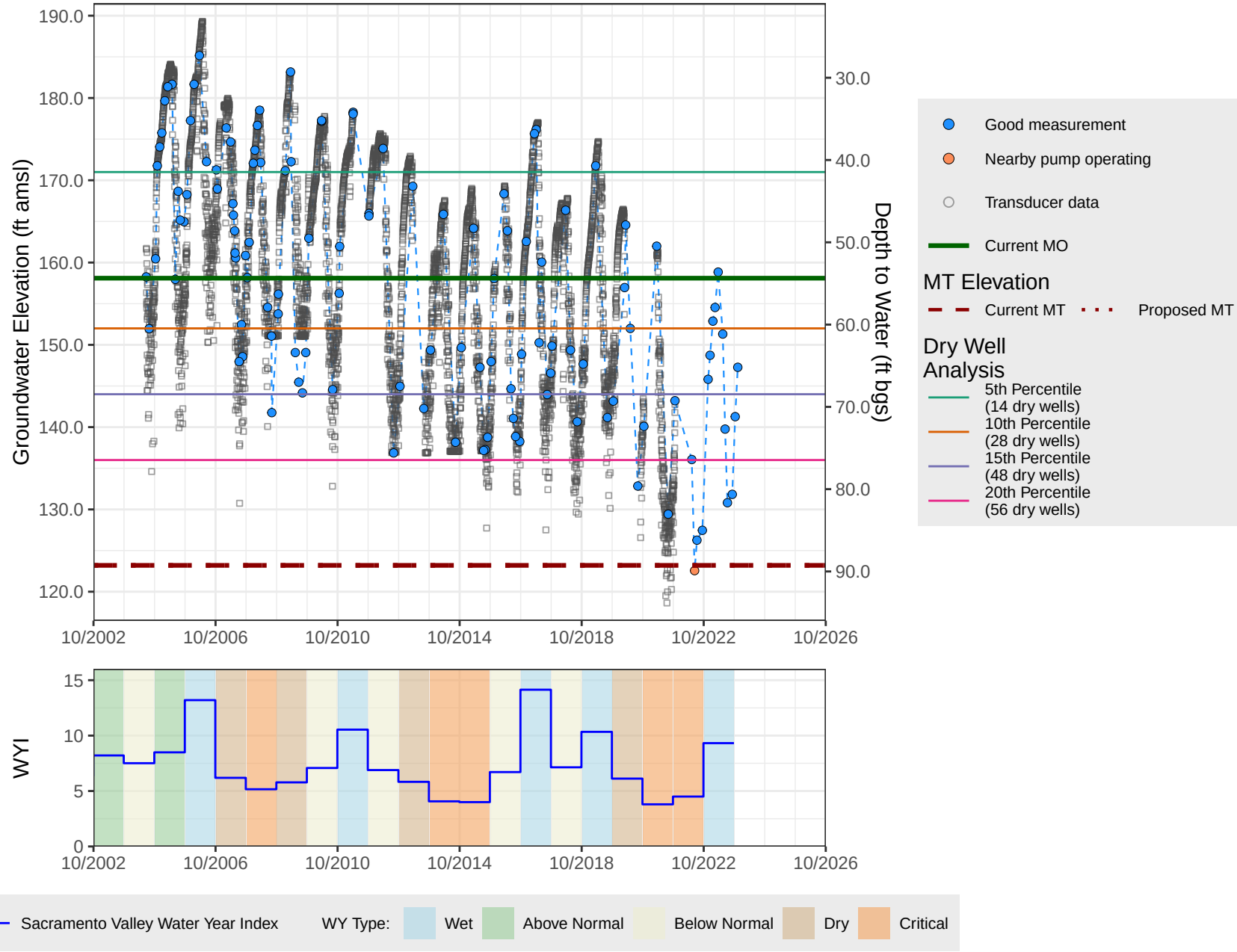
Upper Aquifer (Shallow Zone)  Well Depth: 388 ft.  Perforation top & bottom: 200 − 290 ft bgs




Area: Outside of Special Zone
Basis: Current MT
GWE: 123.2 ft amsl
DTW: 89.26 ft bgs

SMC
IM (2027) = 146.9 ft amsl
MO = 158.1 ft amsl
Old MT = 123.2 ft amsl

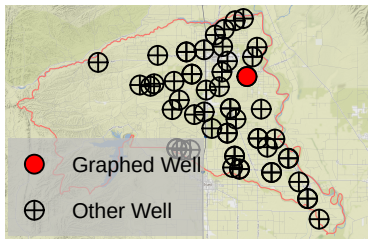
Statistics of Spring WL
Past 18 years (2005 to 2023):
Change = −22.82 ft
Ave. change = −1.27 ft/yr
Ave. WL = 172.31 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 275 | 152 | 96 | 1 | 0 | 26 |
| *Number and Percent Impacted* | 89 (32%) | 51 (19%) | 26 (9%) | 0 (0%) | 0 (0%) | 12 (4%) |

# Corning Subbasin − State Well Number (SWN) 24N02W29N004M

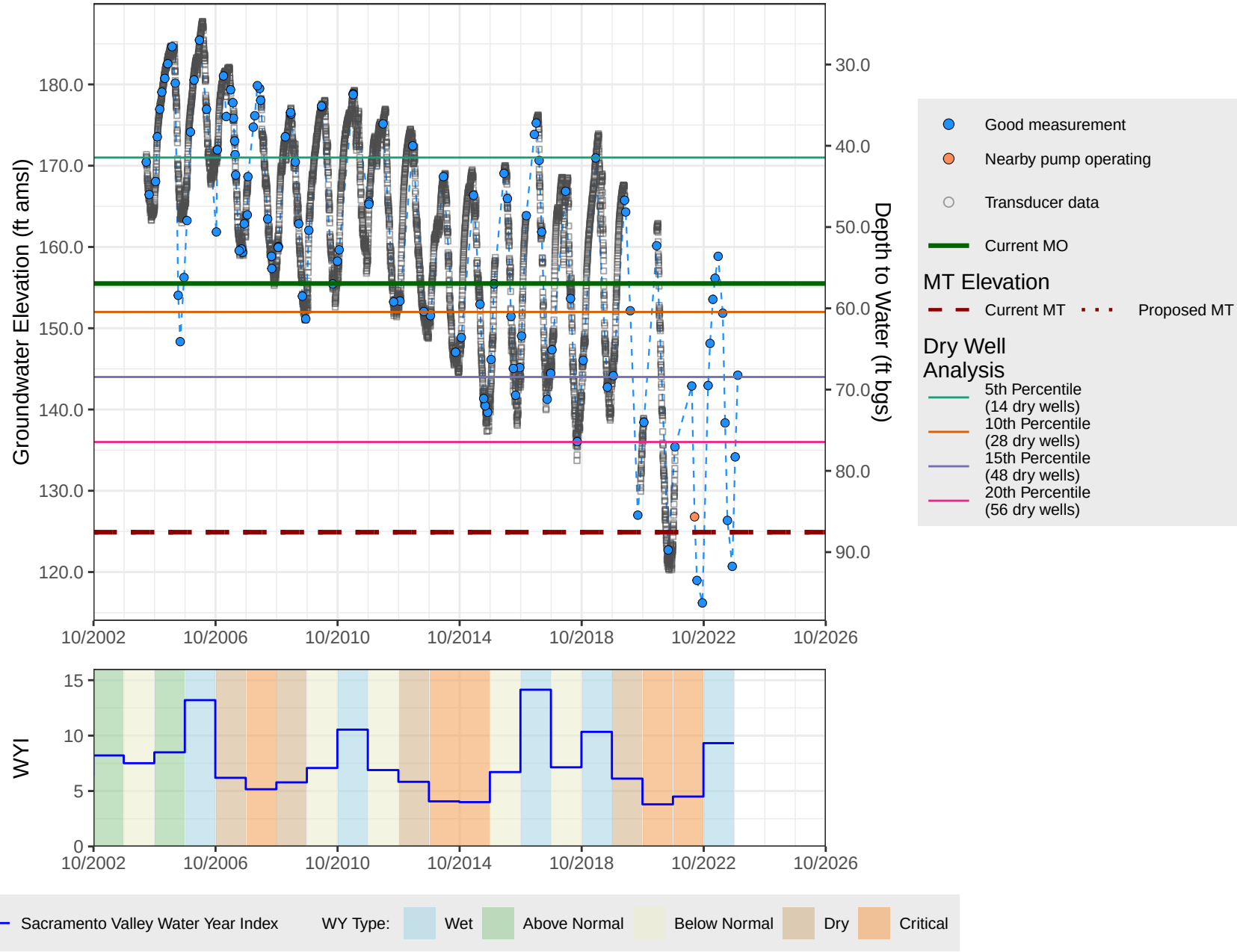
Upper Aquifer (Deep Zone)  Well Depth: 741 ft.  Perforation top & bottom: 590 − 710 ft bgs




Area: Outside of Special Zone
Basis: Current MT
GWE: 124.9 ft amsl
DTW: 87.55 ft bgs

SMC
IM (2027) = 147.0 ft amsl
MO = 155.5 ft amsl
Old MT = 124.9 ft amsl

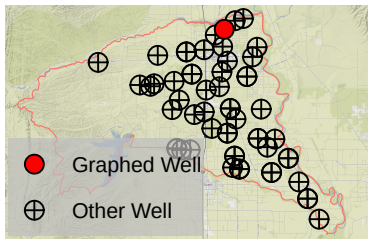
Statistics of Spring WL
Past 18 years (2005 to 2023):
Change = −25.8 ft
Ave. change = −1.43 ft/yr
Ave. WL = 172.95 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 275 | 152 | 96 | 1 | 0 | 26 |
| *Number and Percent Impacted* | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |

# Corning Subbasin − State Well Number (SWN) 24N03W02R001M

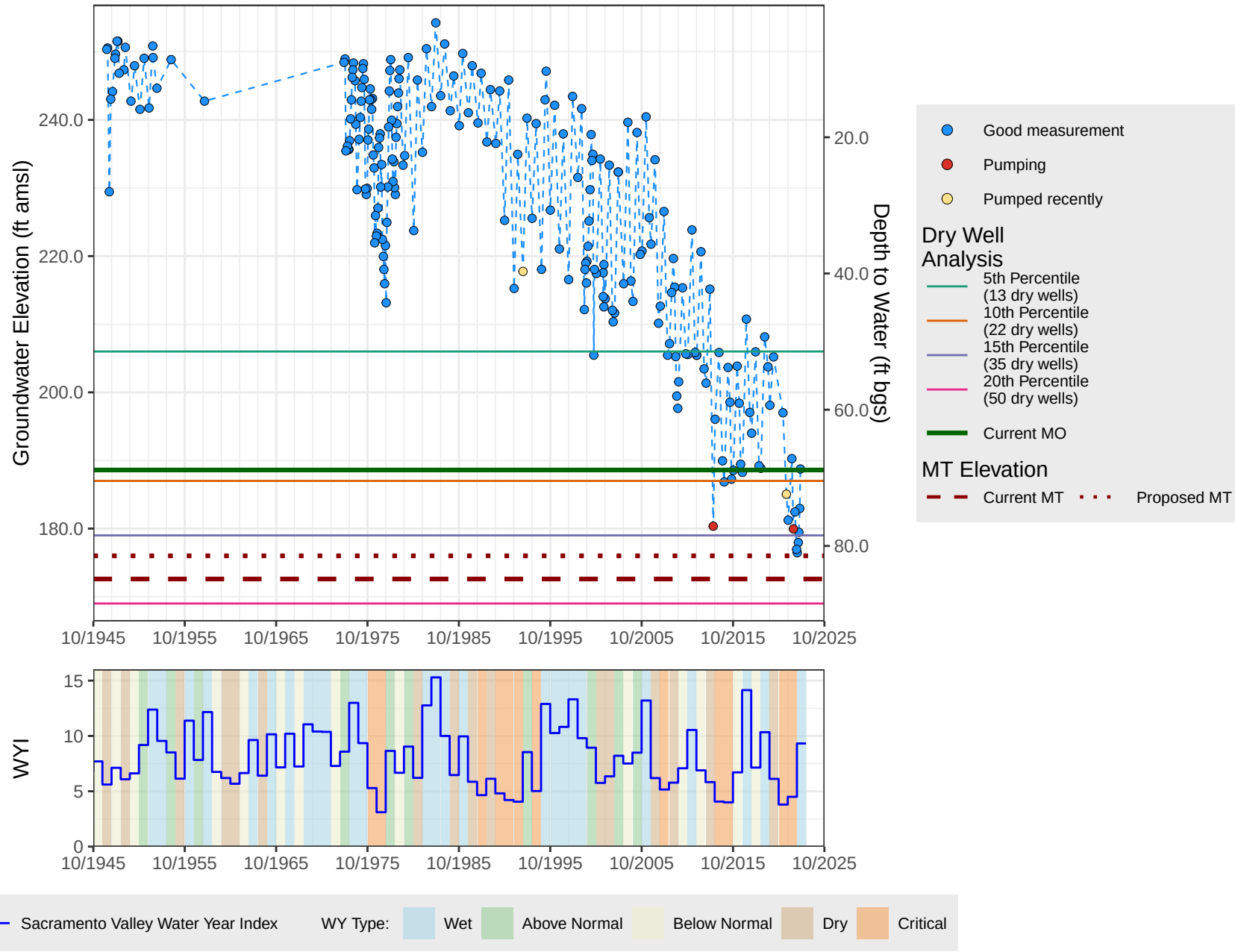
Upper Aquifer (Shallow Zone)  Well Depth: 270 ft.  Perforation top & bottom: Unknown




Area: Within Special Zone
Basis: 2020−2022 low
GWE: 176 ft amsl
DTW: 81 ft bgs

SMC
IM (2027) = 188.6 ft amsl
MO = 188.6 ft amsl
Old MT = 172.6 ft amsl

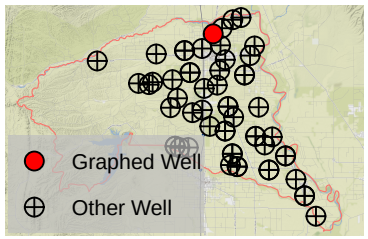
Statistics of Spring WL
Past 20 years (2003 to 2023):
Change = −43.6 ft
Ave. change = −2.18 ft/yr
Ave. WL = 234.59 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 249 | 196 | 38 | 3 | 2 | 10 |
| *Number and Percent Impacted* | 41 (16%) | 27 (11%) | 6 (2%) | 2 (1%) | 0 (0%) | 6 (2%) |

# Corning Subbasin − State Well Number (SWN) 24N03W03R002M

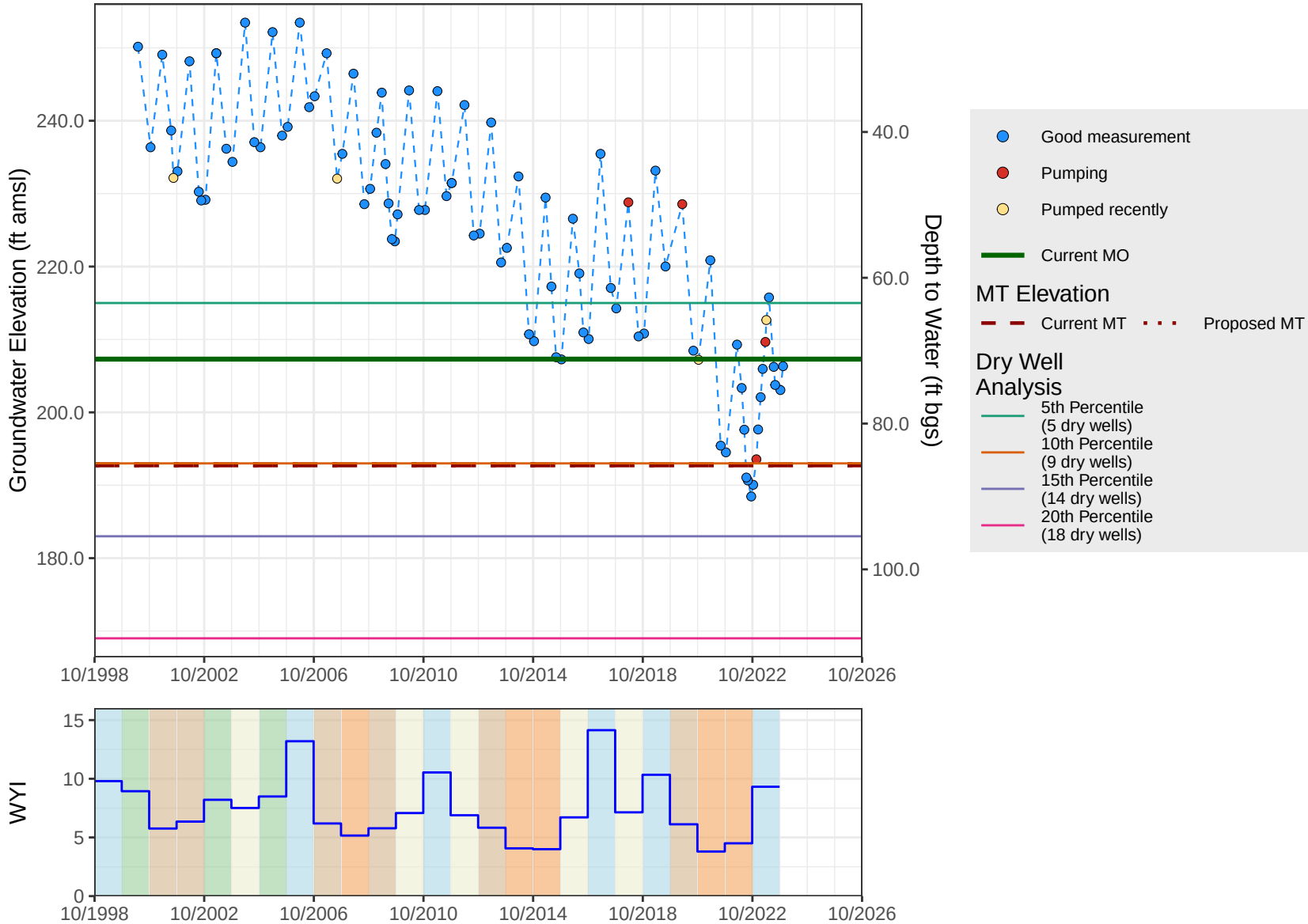
Upper Aquifer (Shallow Zone)  Well Depth: 132 ft.  Perforation top & bottom: 112 − 132 ft bgs




Area: Within Special Zone
Basis: Current MT
GWE: 192.8 ft amsl
DTW: 85.66 ft bgs

SMC
IM (2027) = 207.3 ft amsl
MO = 207.3 ft amsl
Old MT = 192.8 ft amsl

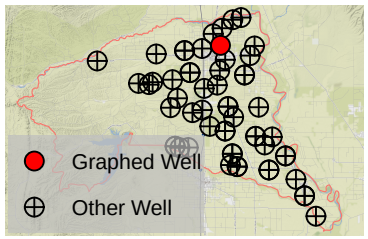
Statistics of Spring WL
Past 20 years (2003 to 2023)
Change = −43.3 ft
Ave. change = −2.16 ft/yr
Ave. WL = 238.49 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 89 | 55 | 22 | 0 | 0 | 12 |
| *Number and Percent Impacted* | 9 (10%) | 5 (6%) | 1 (1%) | 0 (0%) | 0 (0%) | 3 (3%) |

# Corning Subbasin − State Well Number (SWN) 24N03W14B001M

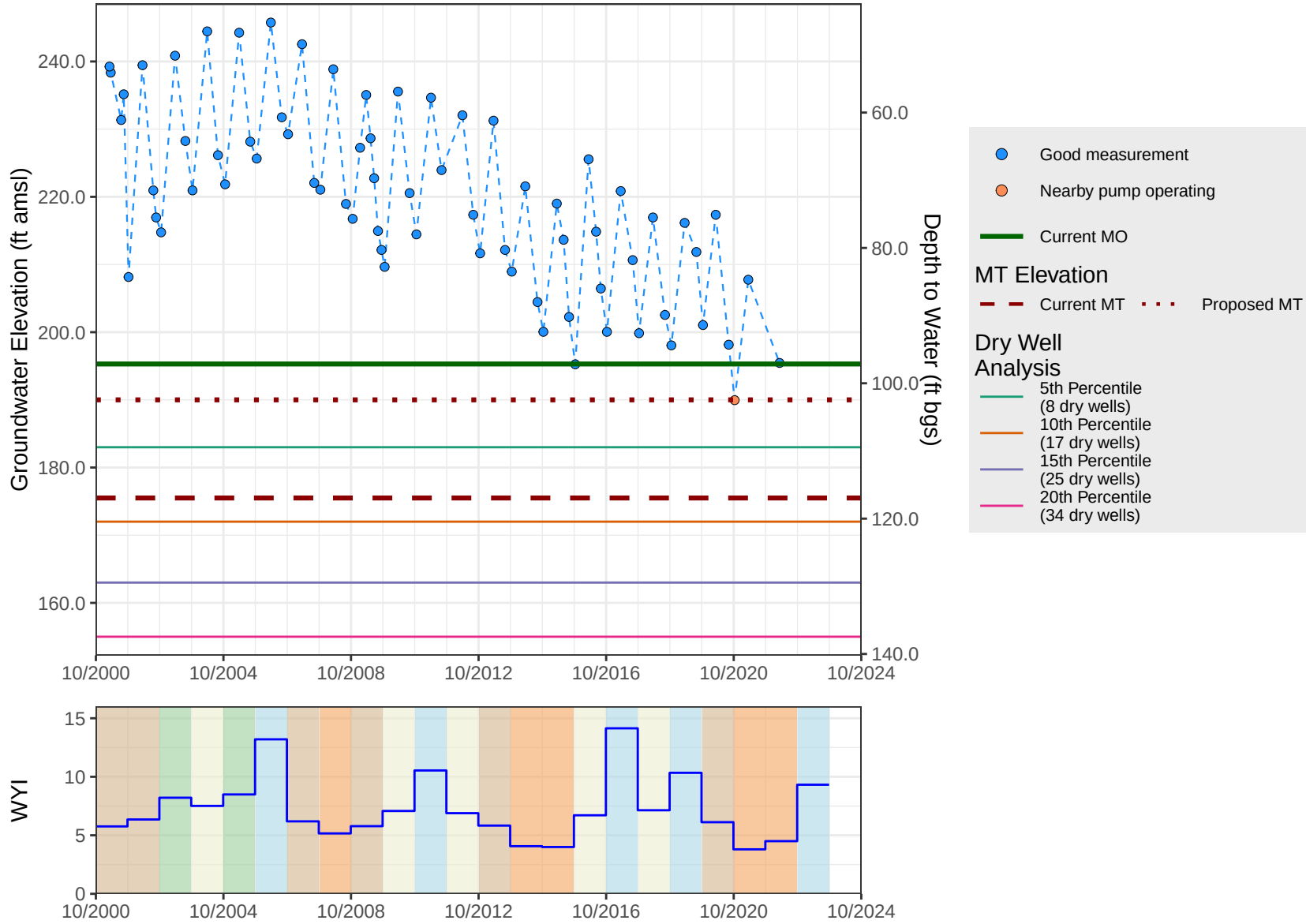
Upper Aquifer (Shallow Zone)  Well Depth: 140 ft.  Perforation top & bottom: 130 − 140 ft bgs




Area: Within Special Zone
Basis: 2020−2022 low
GWE: 190 ft amsl
DTW: 103 ft bgs

SMC
IM (2027) = 195.3 ft amsl
MO = 195.3 ft amsl
Old MT = 175.5 ft amsl

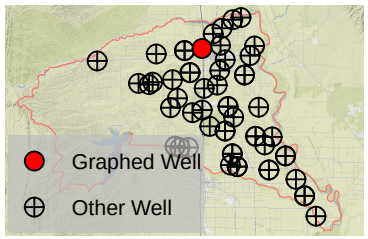
Statistics of Spring WL
Past 19 years (2003 to 2022)
Change = −45.4 ft
Ave. change = −2.39 ft/yr
Ave. WL = 229.3 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 167 | 137 | 24 | 0 | 3 | 3 |
| *Number and Percent Impacted* | 5 (3%) | 4 (2%) | 0 (0%) | 0 (0%) | 0 (0%) | 1 (1%) |

# Corning Subbasin − State Well Number (SWN) 24N03W16A001M

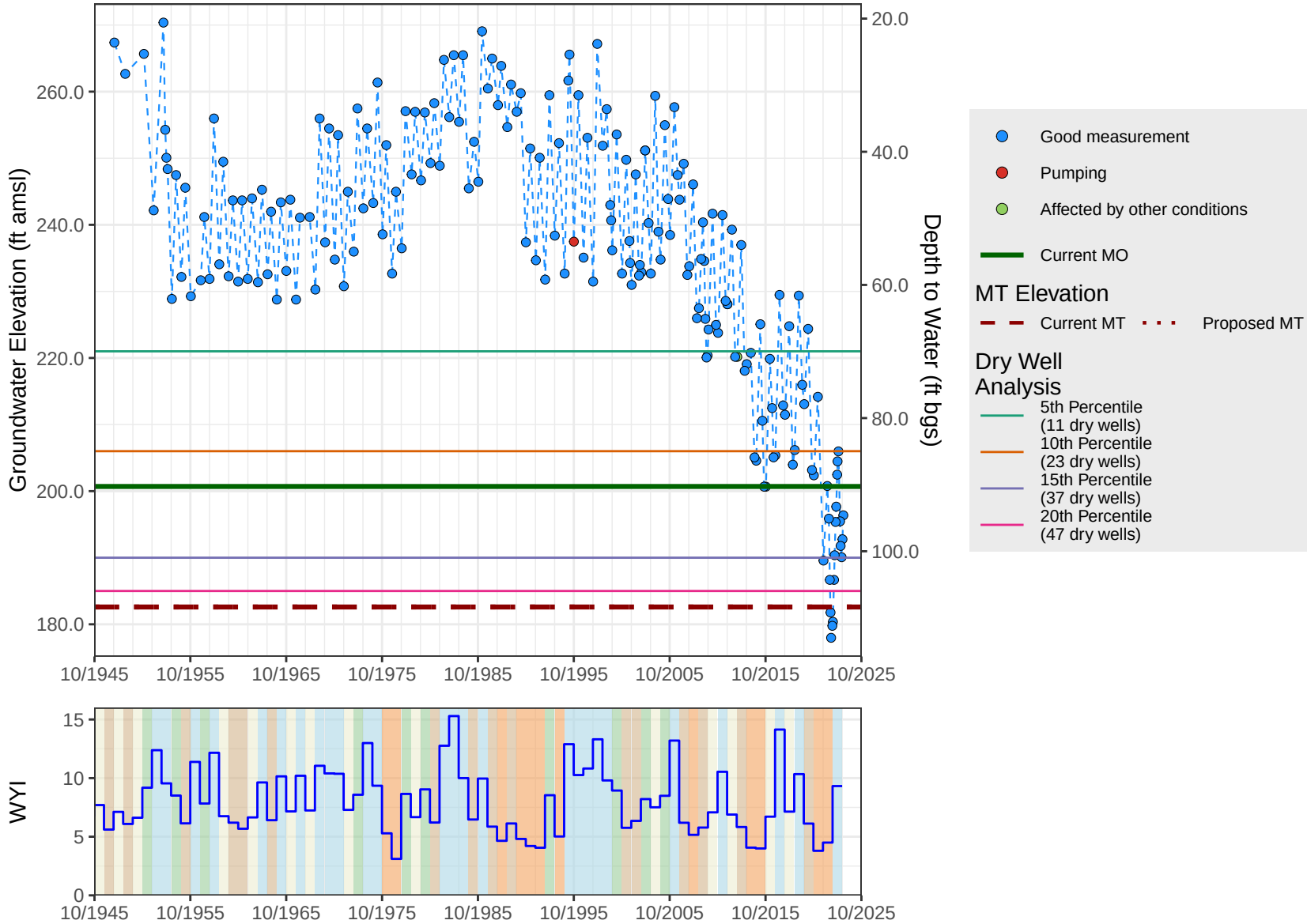
Upper Aquifer (Shallow Zone)  Well Depth: 195 ft.  Perforation top & bottom: 85 − 195 ft bgs




Area: Within Special Zone
Basis: Current MT
GWE: 182.6 ft amsl
DTW: 108.37 ft bgs

SMC
IM (2027) = 200.7 ft amsl
MO = 200.7 ft amsl
Old MT = 182.6 ft amsl

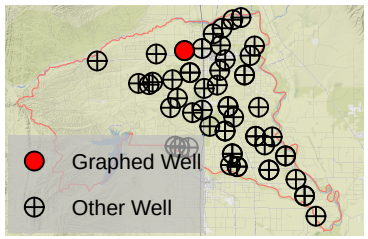
Statistics of Spring WL
Past 20 years (2003 to 2023)
Change = −46.7 ft
Ave. change = −2.33 ft/yr
Ave. WL = 247.58 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 220 | 148 | 48 | 0 | 4 | 20 |
| *Number and Percent Impacted* | 49 (22%) | 36 (16%) | 3 (1%) | 0 (0%) | 0 (0%) | 10 (5%) |

# Corning Subbasin − State Well Number (SWN) 24N03W17M001M

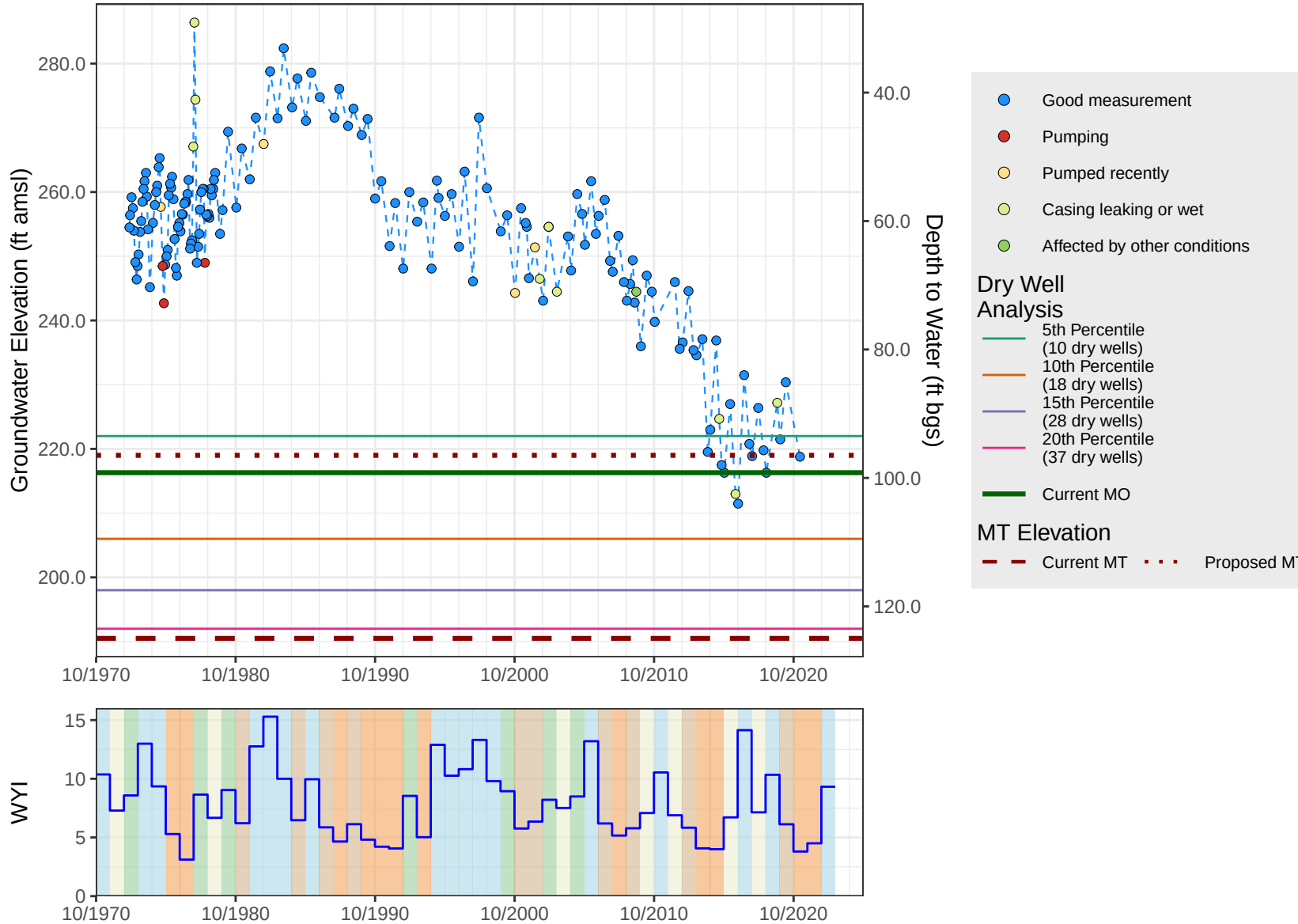
Upper Aquifer (Shallow Zone)  Well Depth: 108 ft.  Perforation top & bottom: 100 − 108 ft bgs




Area: Within Special Zone
Basis: 2020−2022 low
GWE: 219 ft amsl
DTW: 97 ft bgs

SMC
IM (2027) = 216.3 ft amsl
MO = 216.3 ft amsl
Old MT = 190.5 ft amsl

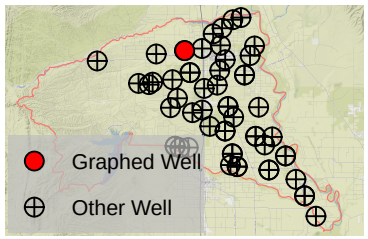
Statistics of Spring WL
Past 18 years (2003 to 2021)
Change = −35.8 ft
Ave. change = −1.99 ft/yr
Ave. WL = 257.42 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 181 | 103 | 62 | 0 | 0 | 16 |
| *Number and Percent Impacted* | 13 (7%) | 11 (6%) | 0 (0%) | 0 (0%) | 0 (0%) | 2 (1%) |

# Corning Subbasin − State Well Number (SWN) 24N03W17M002M

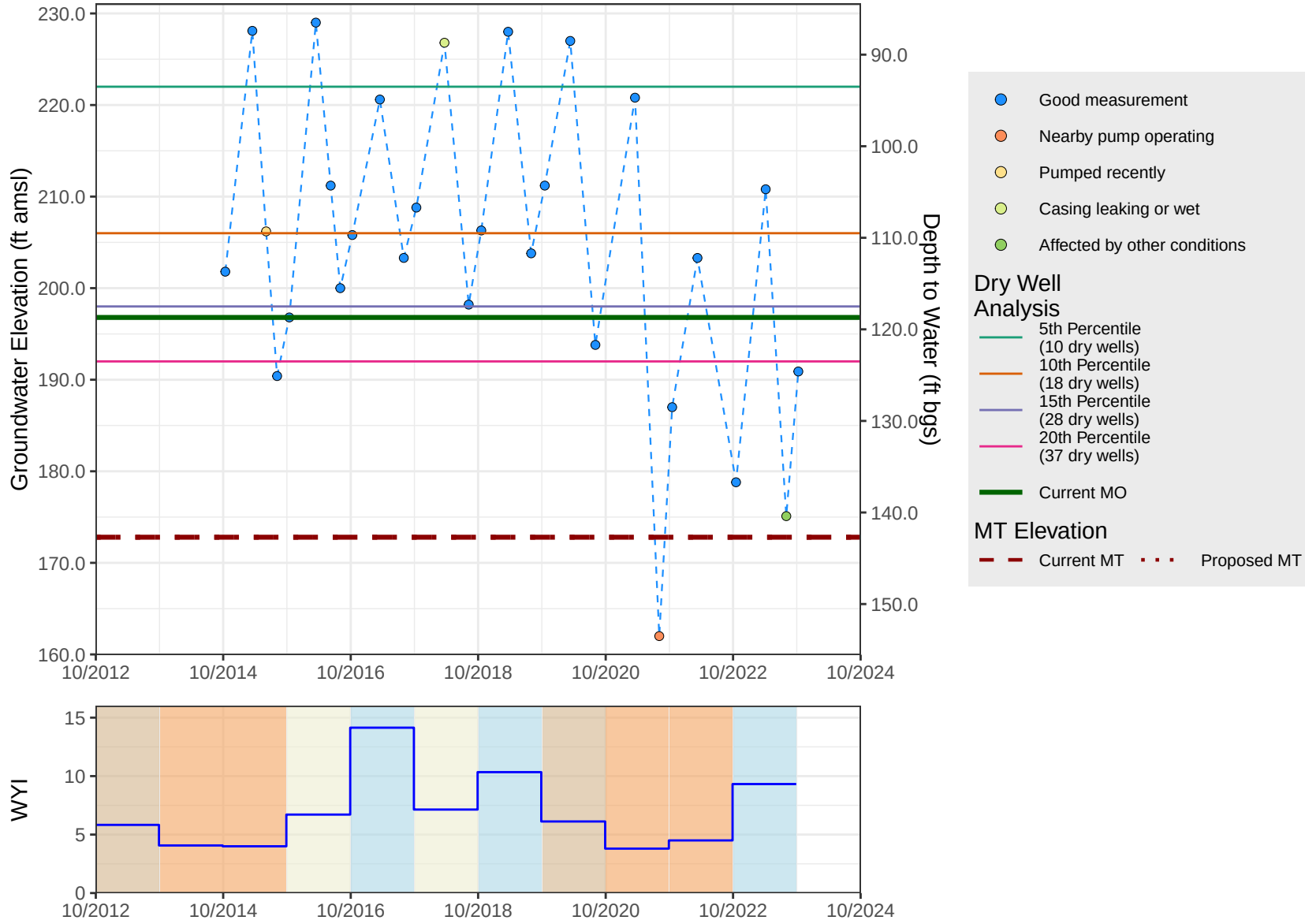
Upper Aquifer (Deep Zone)  Well Depth: 505 ft.  Perforation top & bottom: 315 − 495 ft bgs




Area: Within Special Zone
Basis: Current MT
GWE: 172.8 ft amsl
DTW: 142.7 ft bgs

SMC
IM (2027) = 196.8 ft amsl
MO = 196.8 ft amsl
Old MT = 172.8 ft amsl

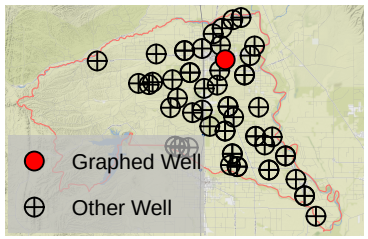
Statistics of Spring WL
Past 8 years (2015 to 2023):
Change = −17.3 ft
Ave. change = −2.16 ft/yr
Ave. WL = 221.6 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 181 | 103 | 62 | 0 | 0 | 16 |
| *Number and Percent Impacted* | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |

# Corning Subbasin − State Well Number (SWN) 24N03W24E001M

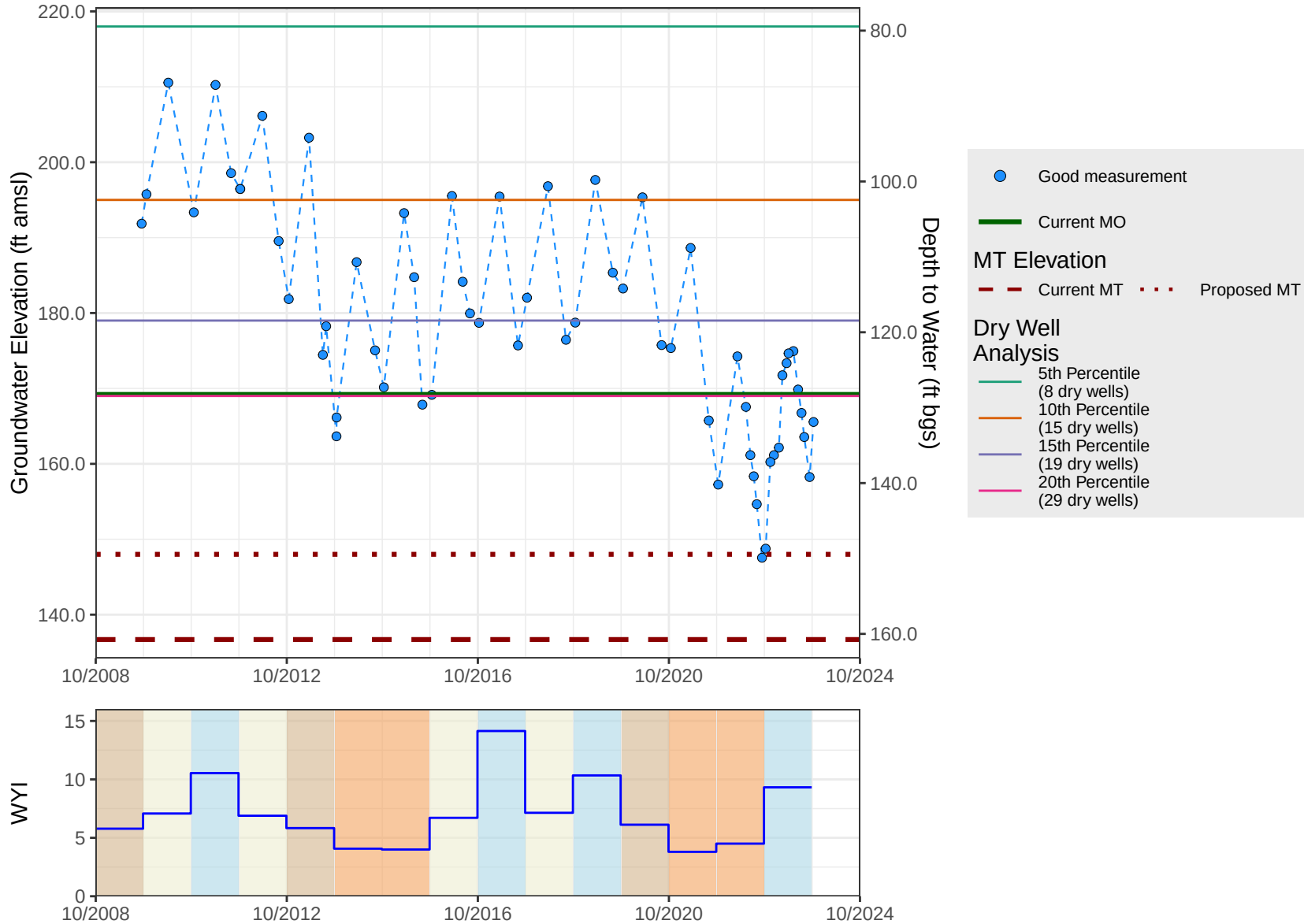
Upper Aquifer (Shallow Zone)  Well Depth: 224 ft.  Perforation top & bottom: 212 − 220 ft bgs




Area: Within Special Zone
Basis: 2020−2022 low
GWE: 148 ft amsl
DTW: 150 ft bgs

SMC
IM (2027) = 169.2 ft amsl
MO = 169.2 ft amsl
Old MT = 136.7 ft amsl

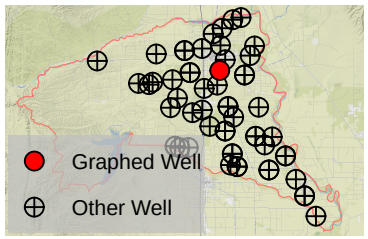
Statistics of Spring WL
Past 13 years (2010 to 2023)
Change = −35.9 ft
Ave. change = −2.76 ft/yr
Ave. WL = 194.89 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 145 | 94 | 26 | 5 | 2 | 18 |
| *Number and Percent Impacted* | 52 (36%) | 36 (25%) | 8 (6%) | 2 (1%) | 0 (0%) | 6 (4%) |

# Corning Subbasin − State Well Number (SWN) 24N03W26K001M

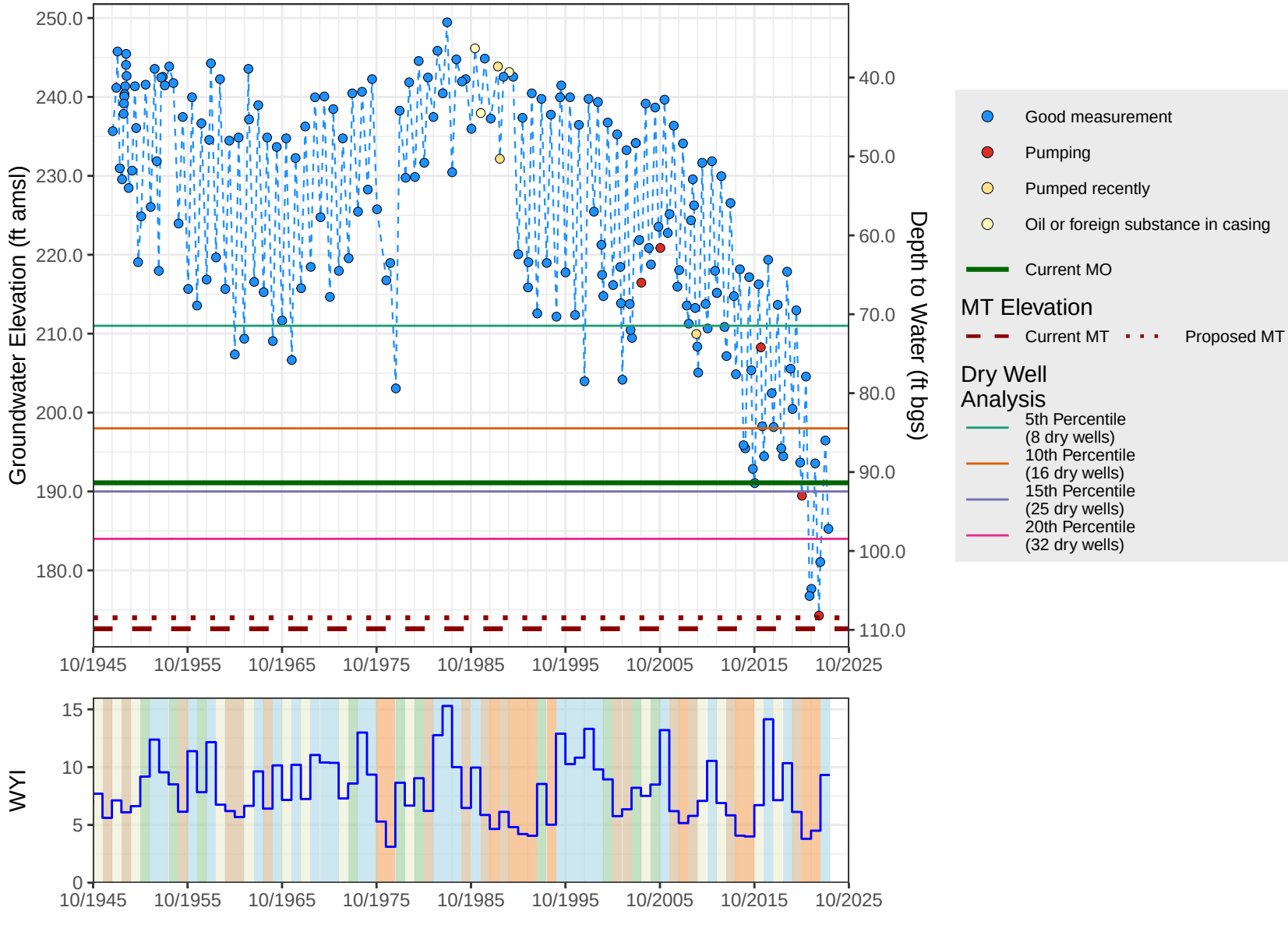
Upper Aquifer (Shallow Zone)  Well Depth: 245 ft.  Perforation top & bottom: 103 − 175 ft bgs




Area: Within Special Zone
Basis: 2020−2022 low
GWE: 174 ft amsl
DTW: 108 ft bgs

SMC
IM (2027) = 191.1 ft amsl
MO = 191.1 ft amsl
Old MT = 172.6 ft amsl

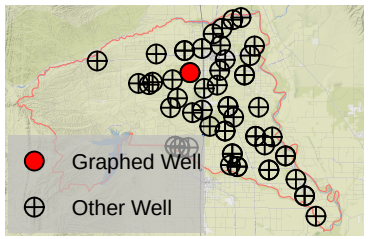
Statistics of Spring WL
Past 20 years (2003 to 2023)
Change = −37.7 ft
Ave. change = −1.88 ft/yr
Ave. WL = 234.89 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 158 | 97 | 39 | 5 | 2 | 15 |
| *Number and Percent Impacted* | 46 (29%) | 31 (20%) | 7 (4%) | 0 (0%) | 0 (0%) | 8 (5%) |

# Corning Subbasin − State Well Number (SWN) 24N03W29Q001M

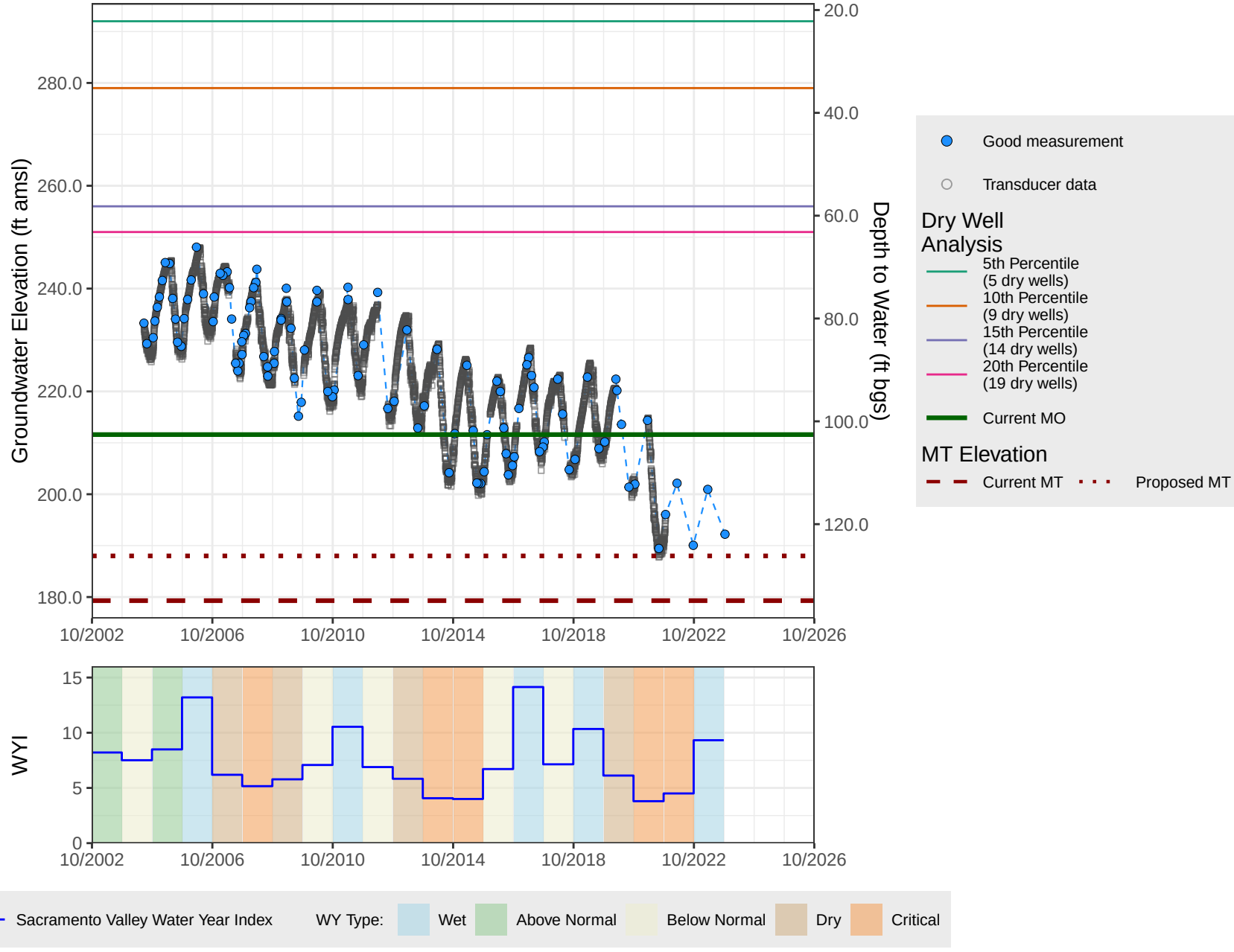
Upper Aquifer (Shallow Zone)  Well Depth: 372 ft.  Perforation top & bottom: 130 − 360 ft bgs




Area: Within Special Zone
Basis: 2020−2022 low
GWE: 188 ft amsl
DTW: 126 ft bgs

SMC
IM (2027) = 210.5 ft amsl
MO = 211.6 ft amsl
Old MT = 179.3 ft amsl

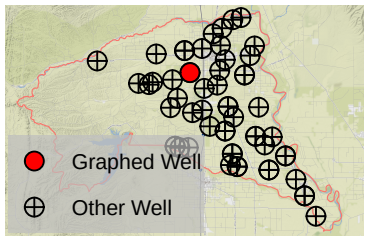
Statistics of Spring WL
Past 18 years (2005 to 2023)
Change = −44.12 ft
Ave. change = −2.45 ft/yr
Ave. WL = 229.38 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 96 | 59 | 25 | 0 | 0 | 12 |
| *Number and Percent Impacted* | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |

# Corning Subbasin − State Well Number (SWN) 24N03W29Q002M

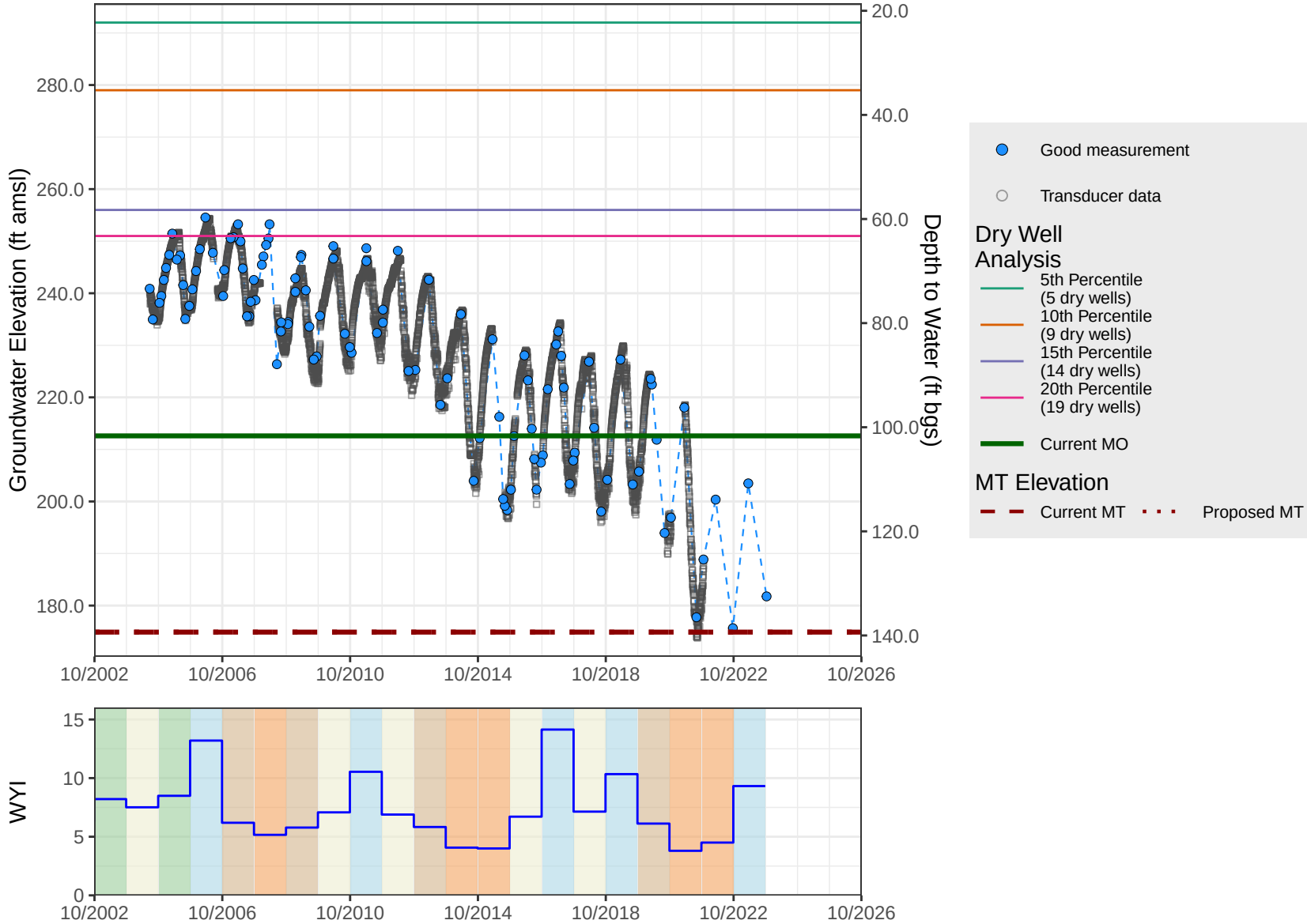
Upper Aquifer (Deep Zone)  Well Depth: 575 ft.  Perforation top & bottom: 490 − 550 ft bgs




Area: Within Special Zone
Basis: Current MT
GWE: 174.9 ft amsl
DTW: 139.36 ft bgs

SMC
IM (2027) = 207.5 ft amsl
MO = 212.6 ft amsl
Old MT = 174.9 ft amsl

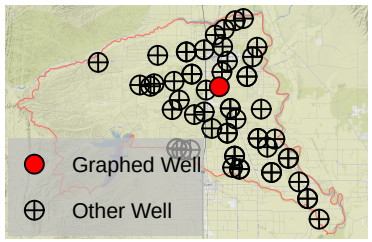
Statistics of Spring WL
Past 18 years (2005 to 2023)
Change = −47.97 ft
Ave. change = −2.66 ft/yr
Ave. WL = 235.56 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 96 | 59 | 25 | 0 | 0 | 12 |
| *Number and Percent Impacted* | 37 (39%) | 28 (29%) | 1 (1%) | 0 (0%) | 0 (0%) | 8 (8%) |

# Corning Subbasin − State Well Number (SWN) 24N03W35P005M

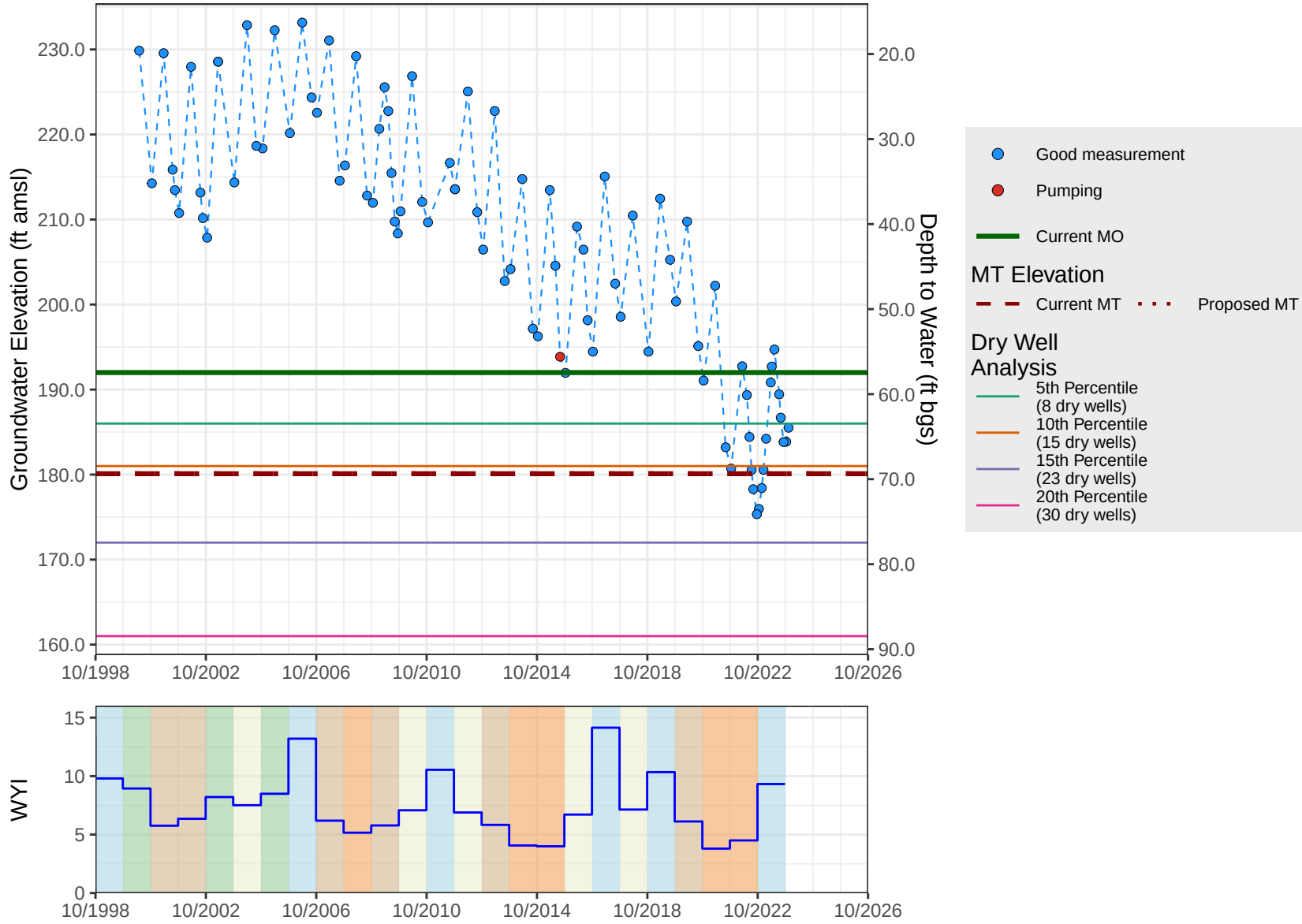
Upper Aquifer (Shallow Zone)  Well Depth: 120 ft.  Perforation top & bottom: 100 − 120 ft bgs




Area: Within Special Zone
Basis: Current MT
GWE: 180.1 ft amsl
DTW: 69.36 ft bgs

SMC
IM (2027) = 192.0 ft amsl
MO = 192.0 ft amsl
Old MT = 180.1 ft amsl

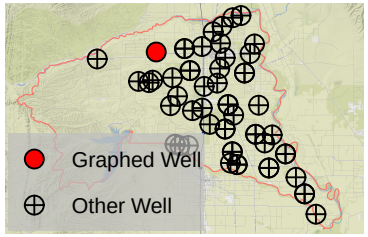
Statistics of Spring WL
Past 20 years (2003 to 2023):
Change = −35.85 ft
Ave. change = −1.79 ft/yr
Ave. WL = 218.98 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 151 | 93 | 36 | 0 | 0 | 22 |
| *Number and Percent Impacted* | 16 (11%) | 13 (9%) | 2 (1%) | 0 (0%) | 0 (0%) | 1 (1%) |

# Corning Subbasin − State Well Number (SWN) 24N04W14N002M

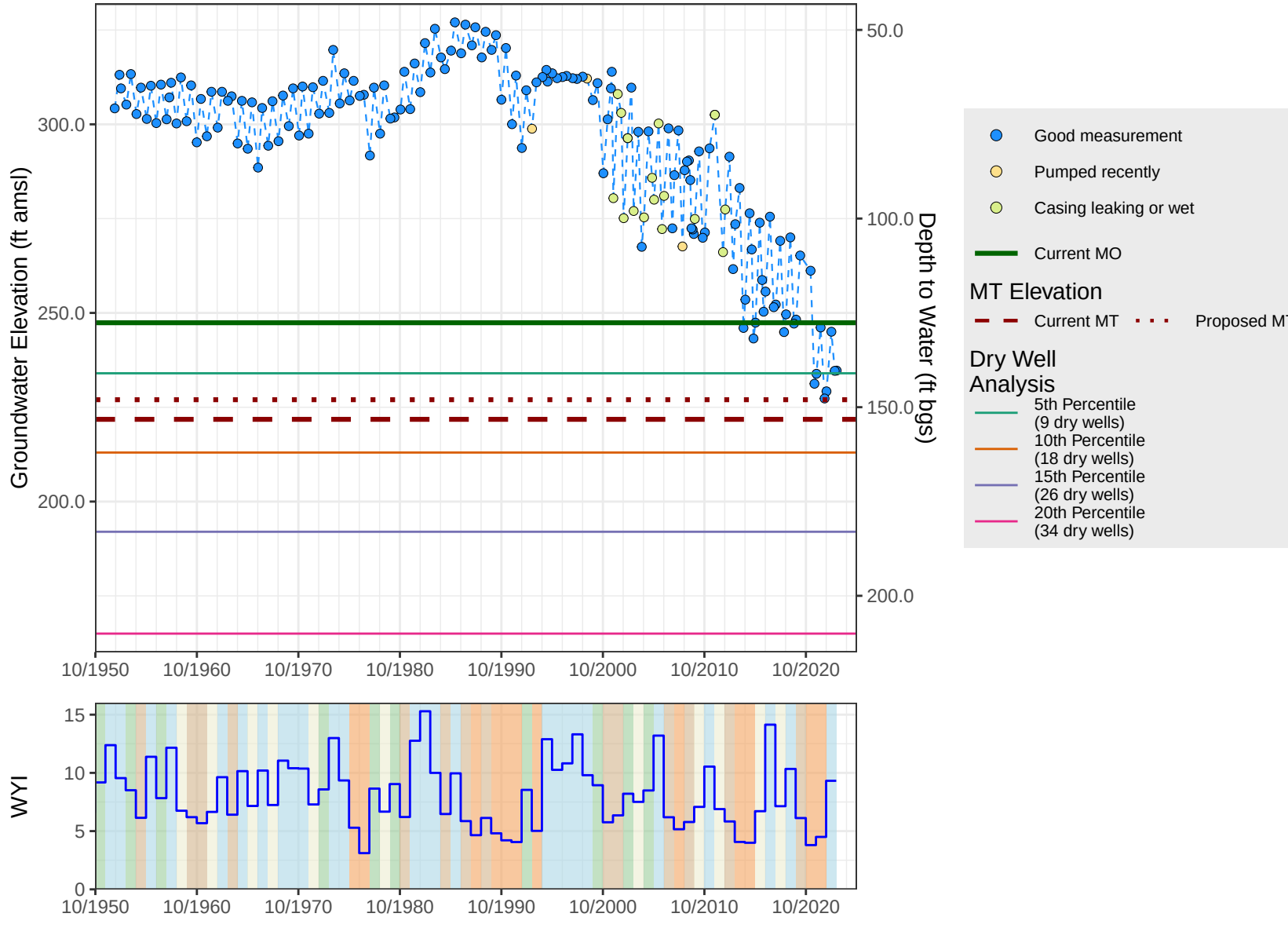
Upper Aquifer (Shallow Zone)  Well Depth: 180 ft.  Perforation top & bottom: Unknown




Area: Within Special Zone
Basis: 2020−2022 low
GWE: 227 ft amsl
DTW: 148 ft bgs

SMC
IM (2027) = 247.4 ft amsl
MO = 247.4 ft amsl
Old MT = 221.8 ft amsl

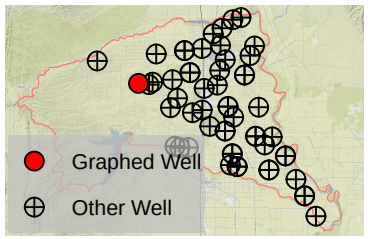
Statistics of Spring WL
Past 20 years (2003 to 2023)
Change = −51.3 ft
Ave. change = −2.56 ft/yr
Ave. WL = 303.41 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 169 | 124 | 37 | 1 | 0 | 7 |
| *Number and Percent Impacted* | 11 (7%) | 10 (6%) | 0 (0%) | 0 (0%) | 0 (0%) | 1 (1%) |

# Corning Subbasin − State Well Number (SWN) 24N04W33P001M

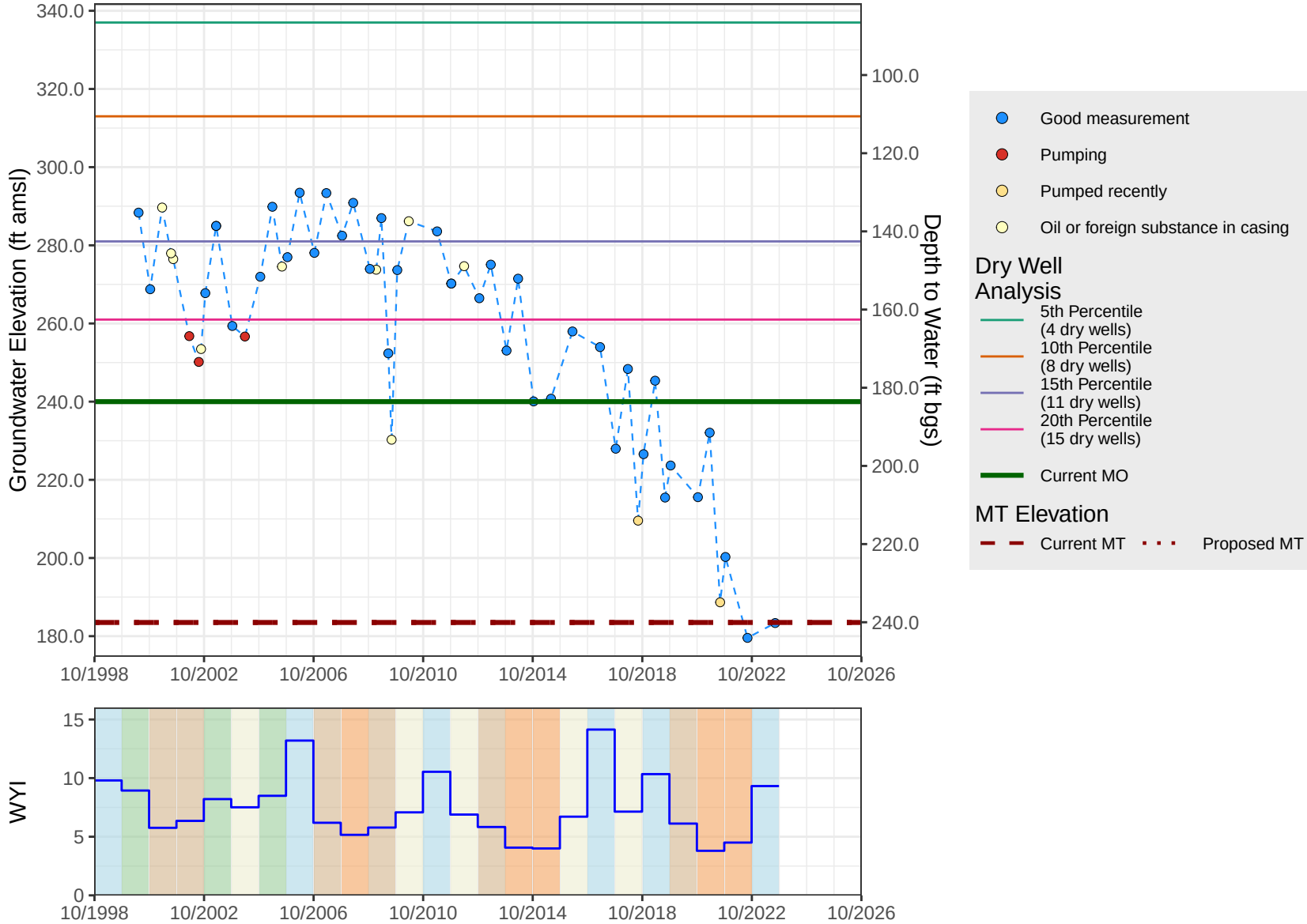
Upper Aquifer (Deep Zone)  Well Depth: 780 ft.  Perforation top & bottom: 250 − 780 ft bgs




Area: Within Special Zone
Basis: Current MT
GWE: 183.5 ft amsl
DTW: 240.06 ft bgs

SMC
IM (2027) = 227.7 ft amsl
MO = 240.0 ft amsl
Old MT = 183.5 ft amsl

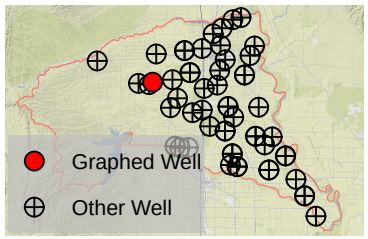
Statistics of Spring WL
Past 18 years (2003 to 2021)
Change = −52.9 ft
Ave. change = −2.94 ft/yr
Ave. WL = 273.98 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 73 | 38 | 31 | 0 | 0 | 4 |
| *Number and Percent Impacted* | 32 (44%) | 24 (33%) | 4 (5%) | 0 (0%) | 0 (0%) | 4 (5%) |

## Corning Subbasin − State Well Number (SWN) 24N04W34K001M

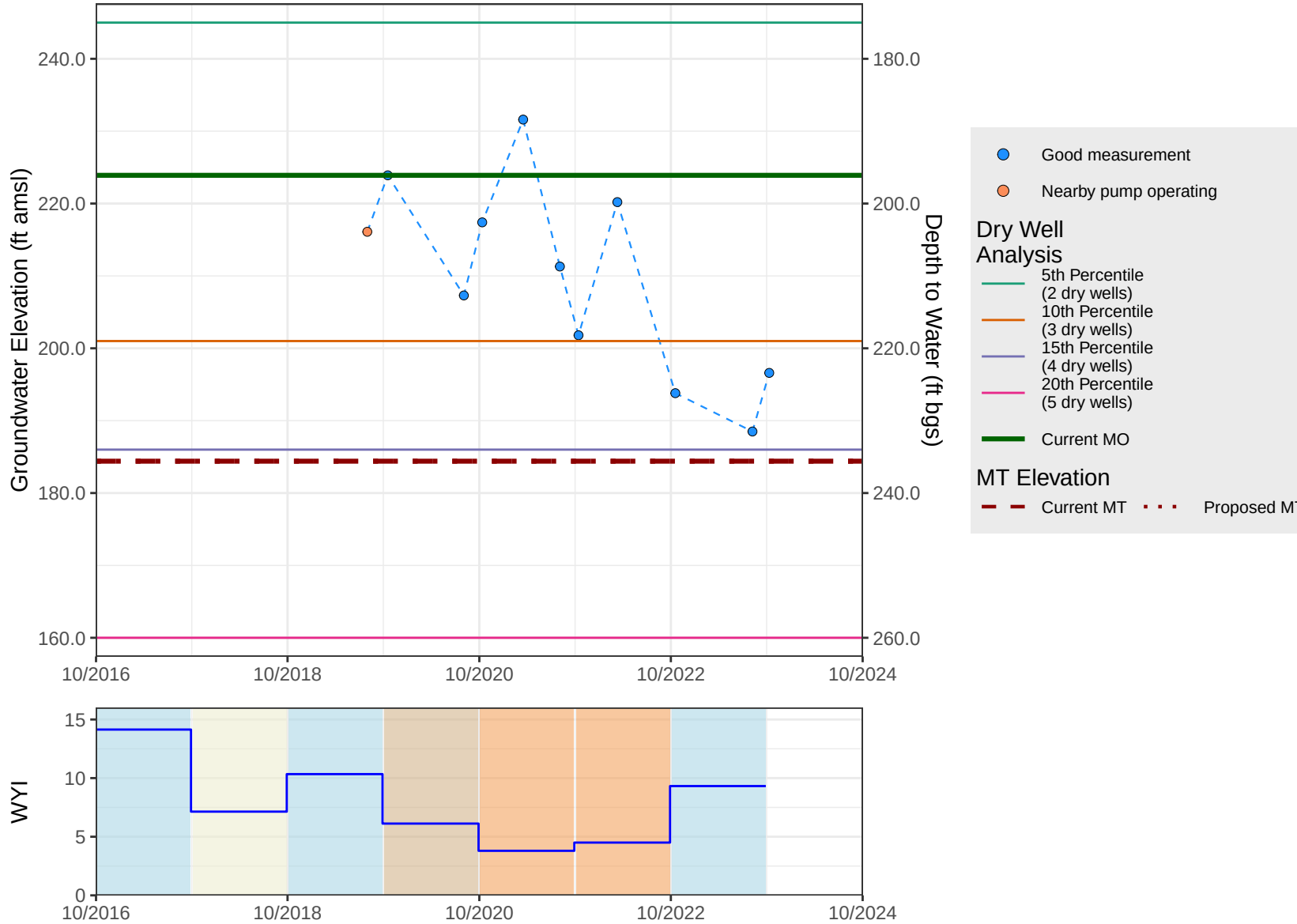
Upper Aquifer (Deep Zone)  Well Depth: 750 ft.  Perforation top & bottom: 310 − 750 ft bgs




Area: Outside of Special Zon
Basis: Current MT
GWE: 184.4 ft amsl
DTW: 235.6 ft bgs

SMC
IM (2027) = 223.9 ft amsl
MO = 223.9 ft amsl
Old MT = 184.4 ft amsl

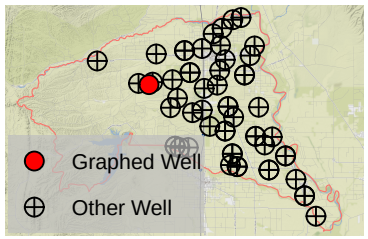
Sufficient data not available f
spring WL statistics for 3 yea




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 23 | 7 | 15 | 0 | 0 | 1 |
| *Number and Percent Impacted* | 4 (17%) | 3 (13%) | 0 (0%) | 0 (0%) | 0 (0%) | 1 (4%) |

# Corning Subbasin − State Well Number (SWN) 24N04W34P001M

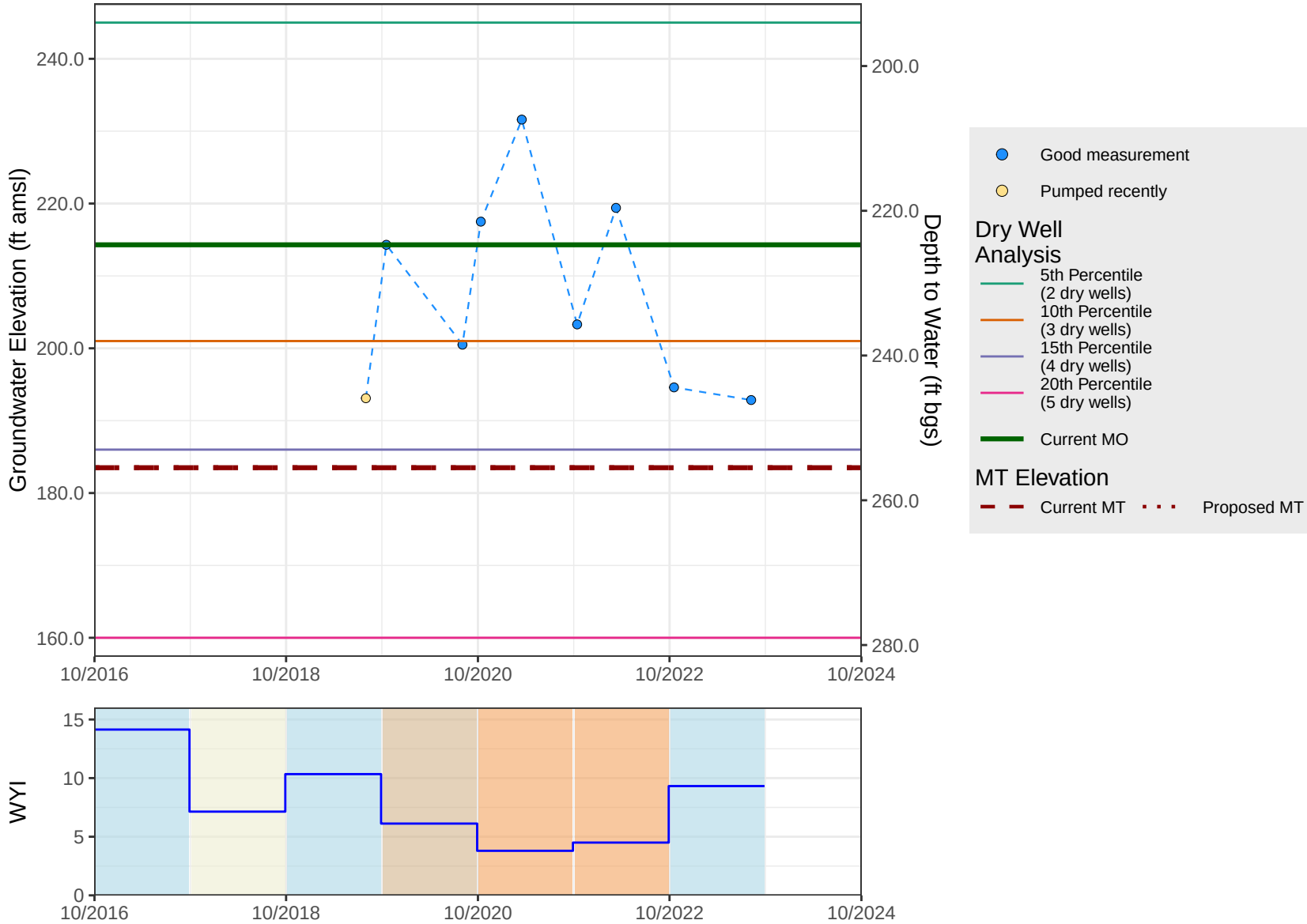
Upper Aquifer (Deep Zone)  Well Depth: 535 ft.  Perforation top & bottom: 290 − 475 ft bgs




Area: Outside of Special Zon
Basis: Current MT
GWE: 183.5 ft amsl
DTW: 255.5 ft bgs

SMC
IM (2027) = 214.3 ft amsl
MO = 214.3 ft amsl
Old MT = 183.5 ft amsl

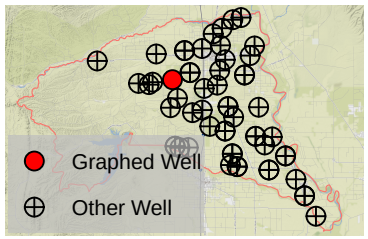
Sufficient data not available f
spring WL statistics for 3 yea




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 23 | 7 | 15 | 0 | 0 | 1 |
| *Number and Percent Impacted* | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |

# Corning Subbasin − State Well Number (SWN) 24N04W36G001M

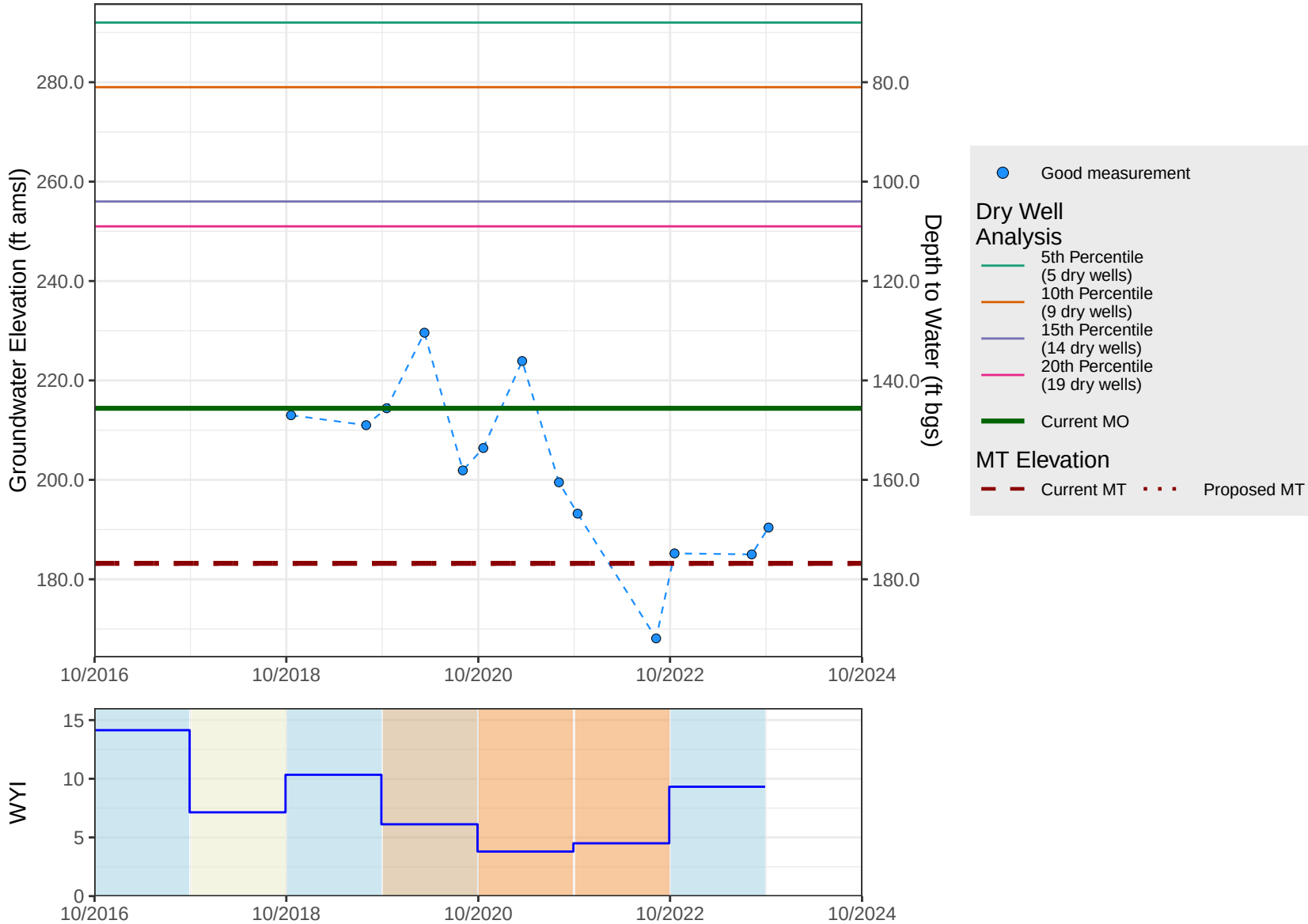
Upper Aquifer (Deep Zone)  Well Depth: 750 ft.  Perforation top & bottom: 320 − 750 ft bgs




Area: Outside of Special Zon
Basis: Current MT
GWE: 183.2 ft amsl
DTW: 176.8 ft bgs

SMC
IM (2027) = 214.4 ft amsl
MO = 214.4 ft amsl
Old MT = 183.2 ft amsl

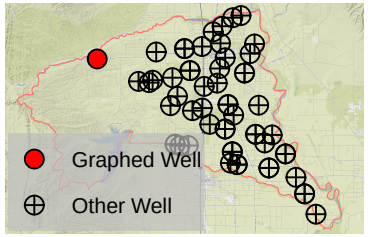
Sufficient data not available f
spring WL statistics for 3 yea




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 96 | 59 | 25 | 0 | 0 | 12 |
| *Number and Percent Impacted* | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |

# Corning Subbasin − State Well Number (SWN) 24N05W23L001M

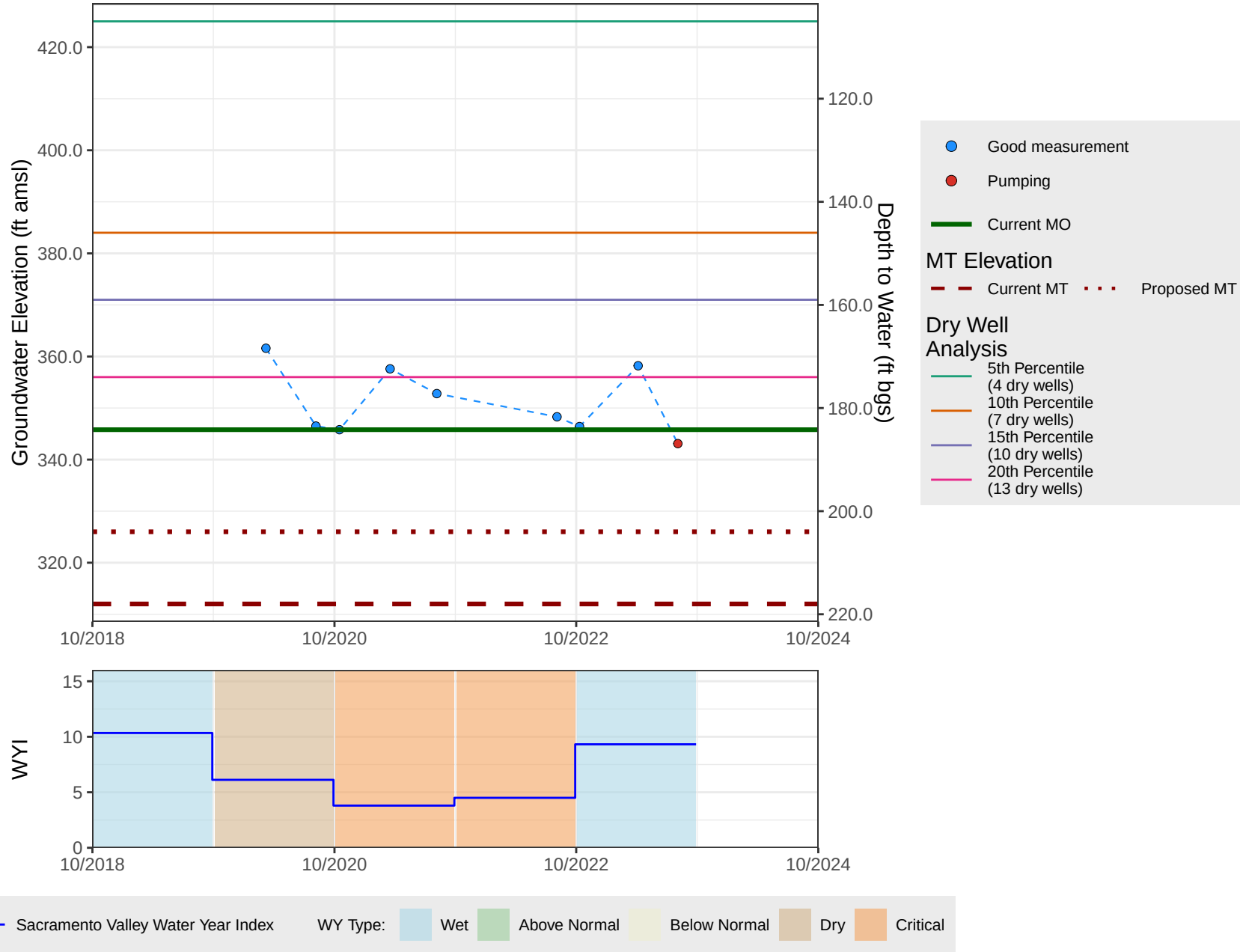
Upper Aquifer (Shallow Zone)  Well Depth: 235 ft.  Perforation top & bottom: Unknown




Area: Outside of Special Zon
Basis: 2020−2022 low −20 ft
GWE: 326 ft amsl
DTW: 204 ft bgs

SMC
IM (2027) = 345.8 ft amsl
MO = 345.8 ft amsl
Old MT = 312.0 ft amsl

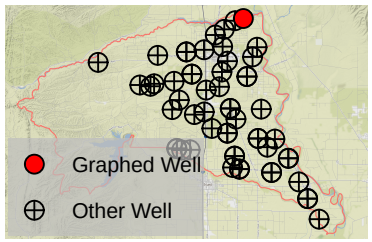
Statistics of Spring WL
Past 3 years (2020 to 2023):
Change = −3.4 ft
Ave. change = −1.13 ft/yr
Ave. WL = 359.13 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 62 | 36 | 21 | 0 | 0 | 5 |
| *Number and Percent Impacted* | 18 (29%) | 13 (21%) | 2 (3%) | 0 (0%) | 0 (0%) | 3 (5%) |

# Corning Subbasin − State Well Number (SWN) 25N02W31G002M

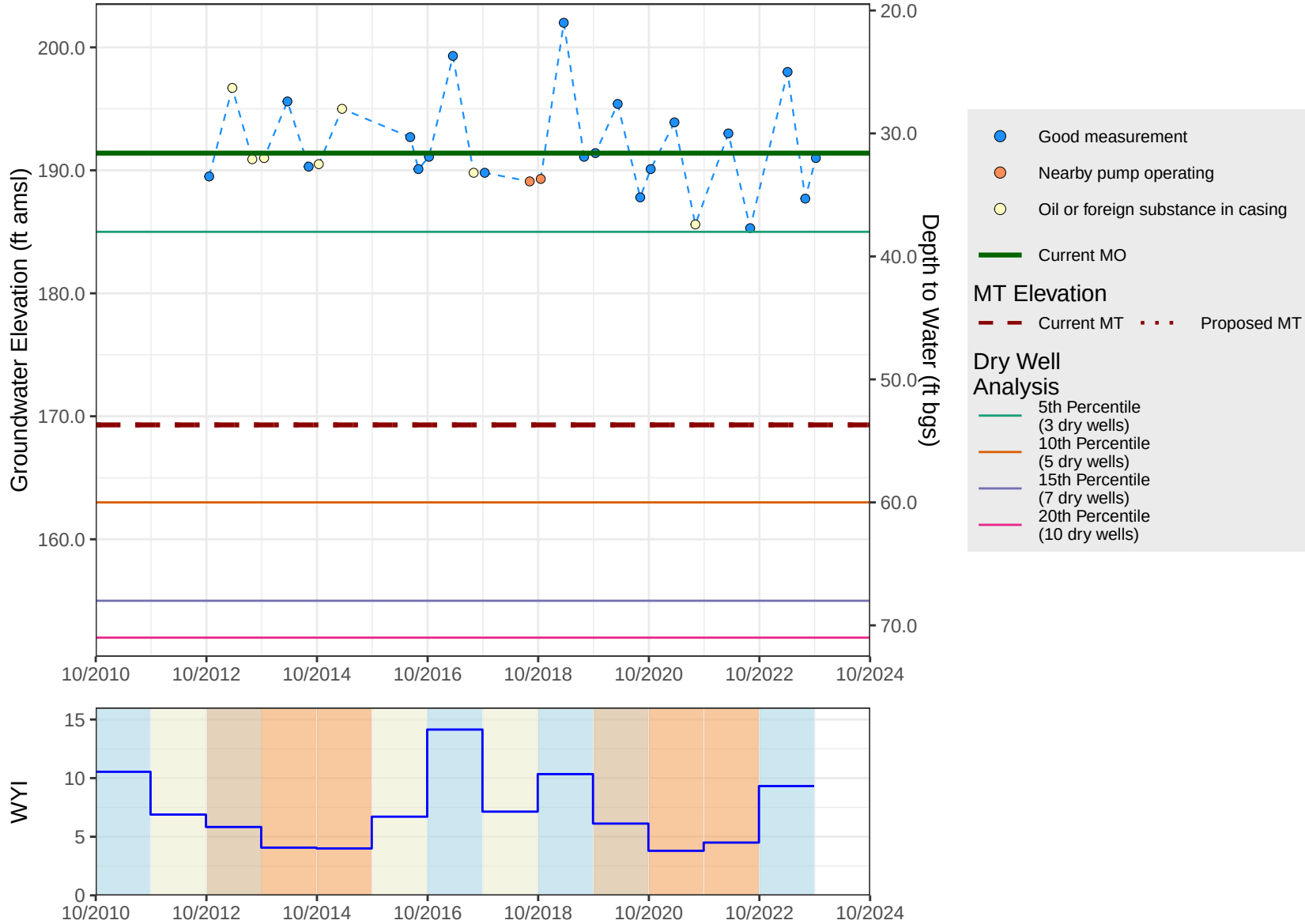
Upper Aquifer (Shallow Zone)  Well Depth: 115 ft.  Perforation top & bottom: 93 − 113 ft bgs




Area: Outside of Special Zone
Basis: Current MT
GWE: 169.3 ft amsl
DTW: 53.7 ft bgs

SMC
IM (2027) = 191.4 ft amsl
MO = 191.4 ft amsl
Old MT = 169.3 ft amsl

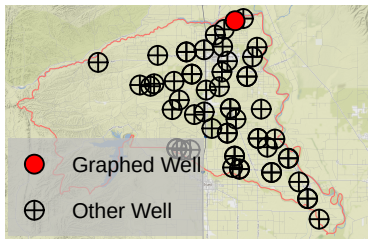
Statistics of Spring WL
Past 10 years (2013 to 2023):
Change = 1.3 ft
Ave. change = 0.13 ft/yr
Ave. WL = 196.54 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 47 | 27 | 12 | 1 | 0 | 7 |
| *Number and Percent Impacted* | 4 (9%) | 2 (4%) | 1 (2%) | 1 (2%) | 0 (0%) | 0 (0%) |

# Corning Subbasin – State Well Number (SWN) 25N03W36H001M

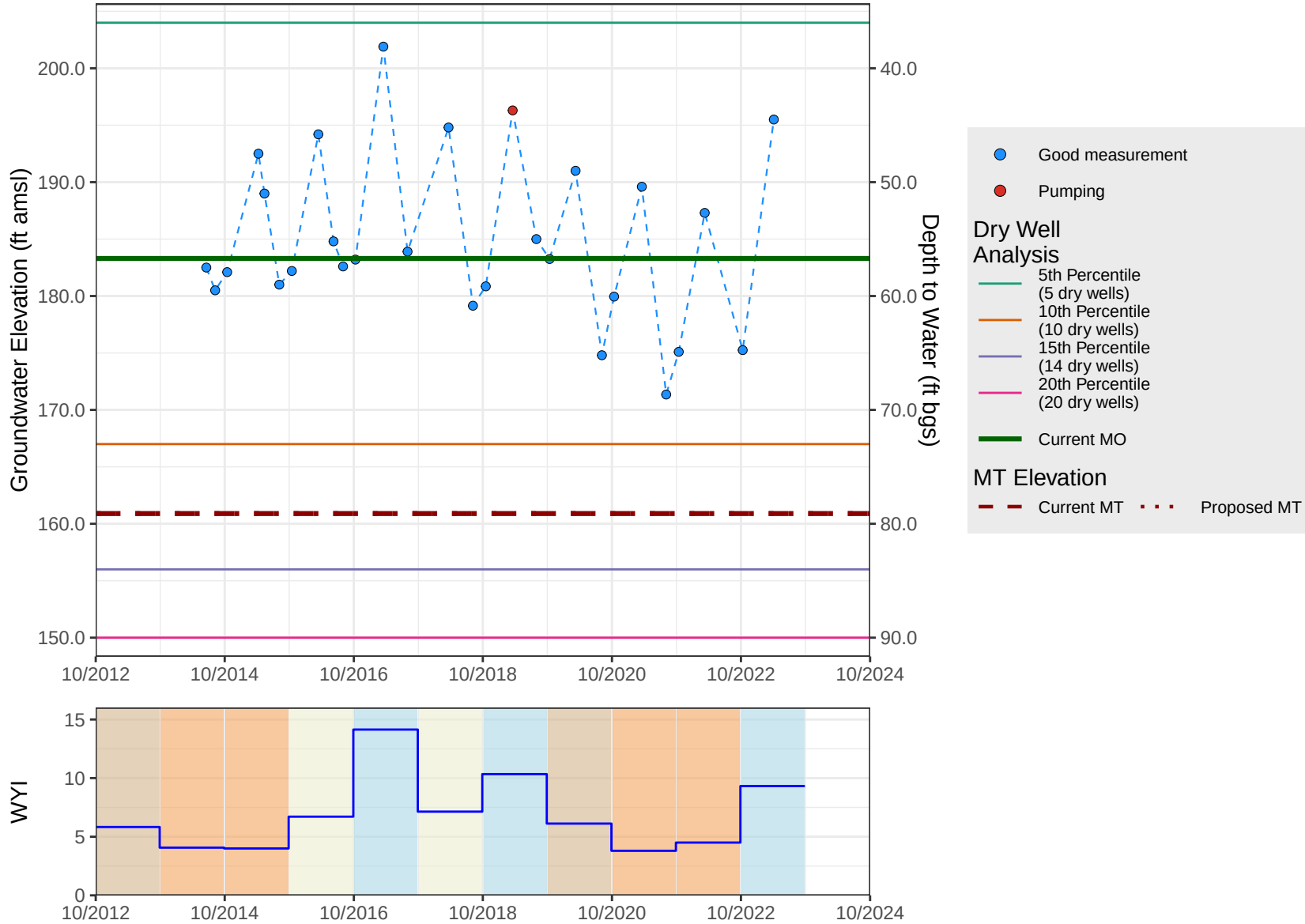
Upper Aquifer (Deep Zone)  Well Depth: 524 ft.  Perforation top & bottom: Unknown



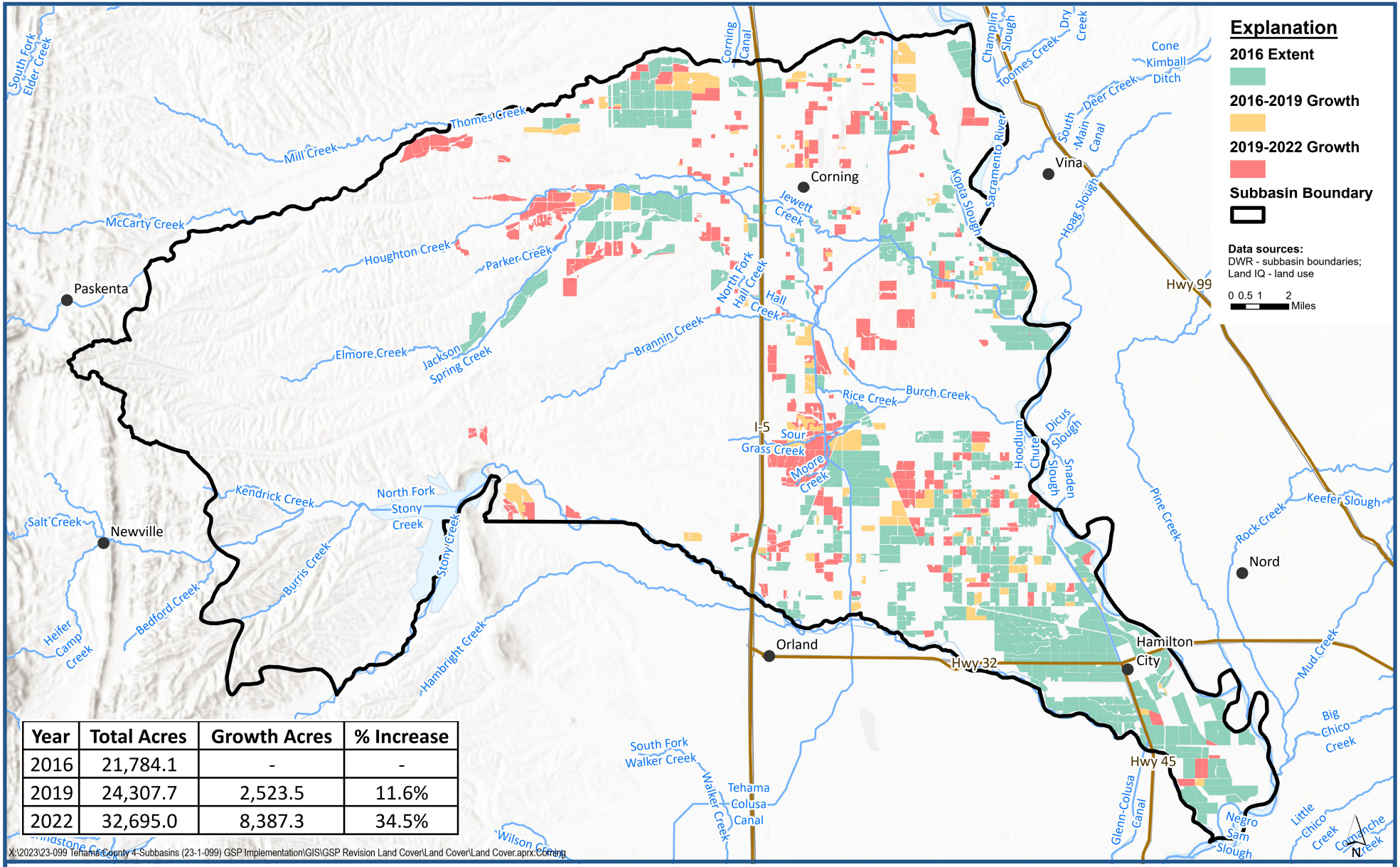

Area: Outside of Special Zone
Basis: Current MT
GWE: 160.9 ft amsl
DTW: 79.1 ft bgs

SMC
IM (2027) = 183.3 ft amsl
MO = 183.3 ft amsl
Old MT = 160.9 ft amsl

Statistics of Spring WL
Past 8 years (2015 to 2023):
Change = 3 ft
Ave. change = 0.38 ft/yr
Ave. WL = 193.35 ft amsl




| | All wells | Domestic | Agriculture | Industrial | Public | Unknown |
|---|---|---|---|---|---|---|
| *Total Well Count* | 91 | 55 | 28 | 0 | 0 | 8 |
| *Number and Percent Impacted* | 12 (13%) | 3 (3%) | 6 (7%) | 0 (0%) | 0 (0%) | 3 (3%) |




| Year | Total Acres | Growth Acres | % Increase |
|---|---|---|---|
| 2016 | 21,784.1 | - | - |
| 2019 | 24,307.7 | 2,523.5 | 11.6% |
| 2022 | 32,695.0 | 8,387.3 | 34.5% |

X:\2023\23-099 Tehama County 4-Subbasins (23-1-099) GSP Implementation\GIS\GSP Revision Land Cover\Land Cover\Land Cover.aprx:Corning

Luhdorff & Scalmanini
Consulting Engineers

**Almond and Walnut Areal Extent 2016-2022**

*Groundwater Sustainability Plan*
*Corning Subbasin*

**CORNING SUB-BASIN GROUNDWATER SUSTAINABILITY AGENCY**

**RESOLUTION NO. 2024-01**

**RESOLUTION ESTABLISHING A WELL MITIGATION PROGRAM FOR THE CORNING SUBBASIN**

**WHEREAS**, groundwater and surface water resources within the Corning Subbasin are vitally important resources for all beneficial uses and users, and to maintain the economic viability, prosperity, and sustainability of the Subbasin; and

**WHEREAS**, in 2014 the California Legislature passed a statewide framework for sustainable groundwater management, known as the Sustainable Groundwater Management Act, California Water Code § 10720-10737.8 (SGMA), pursuant to Senate Bill 1168, Senate Bill 1319, and Assembly Bill 1739, which was approved by the Governor on September 16, 2014. and went into effect on January 1, 2015; and

**WHEREAS**, the Subbasin have been designated by the California Department of Water Resources (DWR) as a high-priority subbasin and is subject to the requirements of SGMA; and

**WHEREAS**, SGMA requires that all medium and high priority groundwater basins in California be managed by a GSA and that such management be implemented pursuant to an approved Groundwater Sustainability Plan (GSP); and

**WHEREAS**, in January of 2022, the Corning Sub-basin Groundwater Sustainability Agency (CSGSA) and Tehama County Flood Control and Water Conservation District (the District), collectively GSAs, submitted the Corning Subbasin GSP to DWR; and

**WHEREAS**, in October of 2023, DWR determined the GSP was incomplete and would require revisions prior to being determined as adequate under SGMA; and

**WHEREAS**, SGMA defines sustainability as the management of groundwater that can be maintained during the 20-year GSP Implementation Period without causing undesirable results; and

**WHEREAS,** under SGMA the GSAs are responsible for managing groundwater under the GSP to achieve and maintain sustainability according to conditions after SGMA was effective that are caused by groundwater management in the Subbasin; and

**WHEREAS,** it is acknowledged that sustainable management may result in some groundwater level decline during the GSP Implementation Period prior to achieving sustainable groundwater conditions by or before 2042 and this decline may give rise to adverse impacts to some wells; and

**WHEREAS**, it is acknowledged that the number of wells that may be adversely impacted during the 20-year GSP Implementation Period (prior to 2042) is heavily dependent on hydrologic conditions, including precipitation and snowpack during that time period; and

**WHEREAS**, the GSAs acknowledges that the number of wells that may be adversely impacted during the 20-year GSP Implementation Period (prior to 2042) may be affected by implementing projects and management actions in the Subbasins; and

**WHEREAS**, the GSAs recognize that in order to obtain a determination that the GSPs are adequate, DWR is seeking a firm commitment from the GSAs to develop well mitigation and related actions to address impacts caused by their management of the Subbasins; and

**WHEREAS**, it is acknowledged that SGMA does not require GSAs to develop well mitigation programs; and

**WHEREAS,** the GSAs acknowledge that SGMA requires sustainable groundwater management; however, SGMA does not make GSAs responsible for injury from overdraft, nor does it require or assign any liability to GSAs to provide, ensure, or guarantee any level of water quality or access; and

**WHEREAS**, the GSAs acknowledge that the consideration, adoption, or implementation of any mitigation program will be limited to impacts related to GSA management, will not extend to mitigation issues related to the effects of normal wear and tear on wells and appurtenances, and will include express disclaimer that the GSAs cannot be held liable for any impacts from overdraft; and

**WHEREAS,** it is acknowledged that well mitigation and related actions will be implemented in coordination with other programs related to mitigating and resolving well issues and impacts, as applicable, including County-administered programs; and

**NOW, THEREFORE**, in consideration of the conditions contained herein and these Recitals, which are hereby incorporated herein by this reference, the CSGSA has committed to review, consider, and undertake mitigation actions for water well impacts resulting from declining groundwater levels that occur from GSA management activities during the GSP Implementation Period, through development and implementation of a Well Mitigation Program (Program) as follows:

## 1. PROGRAM ELIGIBILITY AND APPLICATION

Program eligibility criteria will be finalized, potentially including:

- Property eligibility
- Eligible mitigation versus non-eligible mitigation (what will and will not be covered) based on evaluation of whether issues are related to groundwater management, which may include evaluation of:
    - **a.** Groundwater levels
    - **b.** Timing of groundwater decline
    - **c.** Groundwater quality
    - **d.** Well casing
    - **e.** Well depth
    - **f.** Minimum threshold exceedances
    - **g.** Historical overdraft
    - **h.** Recent hydrology
    - **i.** Recharge programs
    - **j.** Age and condition of well

- Acute, short-term mitigation
- Chronic, long-term mitigation
- Identified areas of concern where minimum threshold exceedances and/or undesirable results have been documented.

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Program application process (how property owners will apply to and be approved to participate in the Program):

- The District and/or CSGSA will draft an application, the purpose of which is to support determining eligibility, prioritization, well owner agreement, award, and implementation.

Prioritization (order in which applications are processed and funding is allocated)

- Initial applications will be prioritized based on the date of submittal.

The District and/or CSGSA will consider whether there are other reasons to consider prioritization of well-mitigation, including, but not limited to, groundwater quality, number of people served, availability of interim supplies, and office of emergency services service**.**

The District and/or CSGSA will also specify non-eligible services, potentially including, but not limited to:

- Ongoing maintenance
- Non-essential uses of water
- Repair or replacement of piping/infrastructure associated with moving water from the well itself to any other location.

**2. PROGRAM MITIGATION MEASURES**

Program mitigation measures may include, but are not limited to:

- Short-term solutions in emergencies, such as delivery of bottled water and/or water tanks. (Considered only for temporary mitigation while other actions are in progress.)
- Deepening existing water wells, or otherwise rehabilitating or replacing such wells (including abandonment of existing wells).
- Drinking water well consolidation (many-to-one).
- Connection to or development of public water systems to serve impacted communities.
- Connection to municipal water systems.

The appropriate Program mitigation measures for each mitigated well will be informed by and determined following a structured, programmatic initial well evaluation process involving (but not limited to):

- Inspection of the conditions of the well, including assessment of the current or anticipated operational issue(s) associated with the well and underlying causes of those impacts.
- Determination that the well impacts are related to groundwater management during the GSP Implementation Period (e.g., not related to effects of normal wear and tear on drinking water wells)
- Determination and recommendation of an appropriate mitigation strategy (i.e., one of the potential Program mitigation measures above).

The Program is considered a temporary solution to mitigating well impacts before achieving and maintaining sustainable groundwater conditions (by 2042).

The Program and implementation of program mitigation measures will be coordinated with other applicable programs in the Subbasin, including County-administered programs.

The parties anticipate that mitigation will occur only once for each well, and will be appropriate to and commensurate with the actual or anticipated well impacts resulting from groundwater management during the GSP Implementation Period. By way of example only, if a well is dry due to groundwater level decline, and deepening that well is the appropriate Program mitigation measure, the well will be deepened below the minimum threshold of the associated representative monitoring site well to reduce the likelihood that the same well impacts will not occur again during GSP implementation.

It is also anticipated that potential Program measures may include, but will not be limited to, well permitting or ordinances to spatially and vertically isolate new wells to minimize adverse impacts on existing water wells. The design and implementation of such measures would be coordinated with existing and/or new County well permitting processes and ordinances.

**3. FUNDING AND FINANCING**

The District and CSGSA will fund the Program through long term GSA funding mechanisms as determined by the District Board and CSGSA respectively.

Estimated expenses for the Program are anticipated to range between:

- $300,000 for Program startup (years 1-2), and $75,000 for Program administration thereafter (years 3+)
- $3,000,000 for Program mitigation measures, assuming (for planning purposes), that approximately 150 wells may require mitigation and that the cost of mitigation per well is approximately $20,000, on average, although the precise number and costs of mitigation are subject to refinement during Program development.

However, these numbers are only estimated for planning purposes and are subject to revision during Program development.

It is anticipated that the Program funding will come from one, or a combination, of the following sources established by the Parties:

- GSA fees and assessment
- Funds generated through implementation of other projects and management actions (e.g., fines and/or penalties)
- County/state/federal funding, as available
- Other sources, as identified

**4. TERM**

The Program shall be developed, and implementation shall begin no later than January 1, 2026 (the Program start date). The Program shall cover eligible mitigation as of the Program start date and shall continue thereafter until groundwater sustainability is achieved during the GSP Implementation Period, or as otherwise directed by the GSAs.

**5. PROGRAM IMPLEMENTATION AND MANAGEMENT**

It is anticipated that a committee will be formed to create and set the final terms of the Program. A draft implementation flow chart is attached, as **Exhibit A** for reference however the final implementation and management of the Program will be approved by the GSAs prior to the program start date.

**6. WELL OWNER AGREEMENTS**

After application, eligibility, and mitigation development, mitigation will need to be accompanied by a well owner agreement that includes several components, including but not limited to the following:

- Mitigation award (how will the costs of mitigation be reviewed and approved);
- Recordation of mitigation award;
- Post-mitigation responsibility (property owner to be responsible for operations, maintenance and repair of water well);
- Indemnification of the GSA;
- Easement or land use permissions

**7. ENVIRONMENTAL REVIEW**

The GSAs will complete any environmental review as may be determined necessary for Program implementation.

**PASSED, APPROVED AND ADOPTED by the Committee of Members of the CORNING SUB-BASIN GROUNDWATER SUSTAINABILITY AGENCY** on this 4th day of April 2024.

AYES:

NOES:

ABSENT:

ABSTAIN:

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## CERTIFICATE OF RESOLUTION

We, the undersigned, hereby certify as follows:

1. That we are the Chair and Secretary of the CORNING SUB-BASIN GROUNDWATER SUSTAINABILITY AGENCY; and

2. That the foregoing resolution, consisting of 7 pages, including this page, is a true and correct copy of a resolution of the Committee of Members of the Corning Sub-basin Groundwater Sustainability Agency, passed at the meeting of the Committee of Members held on April 4, 2024, IN WITNESS WHEREOF, we have signed this certificate this 4th day of April 2024.

_____ John Amaro, Chair of the Corning Sub-basin Groundwater Sustainability Agency

_____ Lisa Hunter, Secretary

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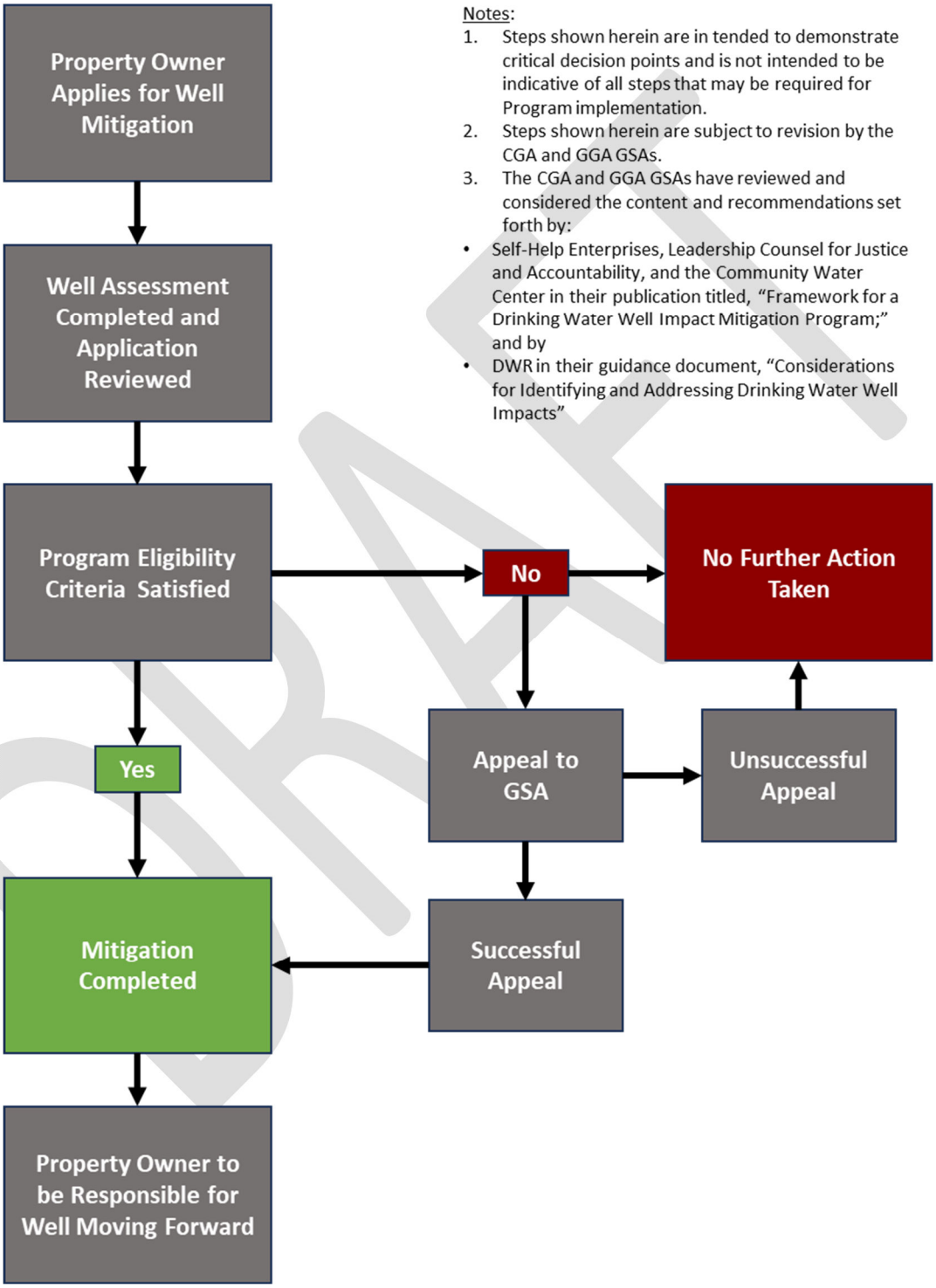
## Exhibit A.

## Well Mitigation Program
## DRAFT Implementation Flowchart.




Notes:

1. Steps shown herein are in tended to demonstrate critical decision points and is not intended to be indicative of all steps that may be required for Program implementation.
2. Steps shown herein are subject to revision by the CGA and GGA GSAs.
3. The CGA and GGA GSAs have reviewed and considered the content and recommendations set forth by:

- Self-Help Enterprises, Leadership Counsel for Justice and Accountability, and the Community Water Center in their publication titled, "Framework for a Drinking Water Well Impact Mitigation Program;" and by
- DWR in their guidance document, "Considerations for Identifying and Addressing Drinking Water Well Impacts"

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**Resolution No. 1-2024**

**A RESOLUTION OF THE TEHAMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT BOARD OF DIRECTORS ESTABLISHING A WELL MITIGATION PROGRAM FOR THE CORNING SUBBASINS**

**WHEREAS**, groundwater and surface water resources within the Corning Subbasin are vitally important resources for all beneficial uses and users, and to maintain the economic viability, prosperity, and sustainability of the Subbasin; and

**WHEREAS**, in 2014 the California Legislature passed a statewide framework for sustainable groundwater management, known as the Sustainable Groundwater Management Act, California Water Code § 10720-10737.8 (SGMA), pursuant to Senate Bill 1168, Senate Bill 1319, and Assembly Bill 1739, which was approved by the Governor on September 16, 2014. and went into effect on January 1, 2015; and

**WHEREAS**, the Subbasin has been designated by the California Department of Water Resources (DWR) as a high-priority subbasin and is subject to the requirements of SGMA; and

**WHEREAS**, SGMA requires that all medium and high priority groundwater basins in California be managed by a GSA and that such management be implemented pursuant to an approved Groundwater Sustainability Plan (GSP); and

**WHEREAS**, in January of 2022, the Corning Sub-basin Groundwater Sustainability Agency (CSGSA) and Tehama County Flood Control and Water Conservation District (the District), collectively GSAs, submitted the Corning Subbasin GSP to DWR; and

**WHEREAS**, in October of 2023, DWR determined the GSP was incomplete and would require revisions prior to being determined as adequate under SGMA; and

**WHEREAS**, SGMA defines sustainability as the management of groundwater that can be maintained during the 20-year GSP Implementation Period without causing undesirable results; and

**WHEREAS,** under SGMA the GSAs are responsible for managing groundwater under the GSP to achieve and maintain sustainability according to conditions after SGMA was effective that are caused by groundwater management in the Subbasin; and

**WHEREAS,** it is acknowledged that sustainable management may result in some groundwater level decline during the GSP Implementation Period prior to achieving sustainable groundwater conditions by or before 2042 and this decline may give rise to adverse impacts to some wells; and

**WHEREAS**, it is acknowledged that the number of wells that may be adversely impacted during the 20-year GSP Implementation Period (prior to 2042) is heavily dependent on hydrologic conditions, including precipitation and snowpack during that time period; and

**WHEREAS**, the GSAs acknowledge that the number of wells that may be adversely impacted during the 20-year GSP Implementation Period (prior to 2042) may be affected by implementing projects and management actions in the Subbasins; and

**WHEREAS**, the GSAs recognize that in order to obtain a determination that the GSPs are adequate, DWR is seeking a firm commitment from the GSAs to develop well mitigation and related actions to address impacts caused by their management of the Subbasins; and

**WHEREAS**, it is acknowledged that SGMA does not require GSAs to develop well mitigation programs; and

**WHEREAS,** the GSAs acknowledge that SGMA requires sustainable groundwater management; however, SGMA does not make GSAs responsible for injury from overdraft, nor does it require or assign any liability to GSAs to provide, ensure, or guarantee any level of water quality or access; and

**WHEREAS**, the GSAs acknowledge that the consideration, adoption, or implementation of any mitigation program will be limited to impacts related to GSA management, will not extend to mitigation issues related to the effects of normal wear and tear on wells and appurtenances, and will include express disclaimer that the GSAs cannot be held liable for any impacts from overdraft; and

**WHEREAS,** it is acknowledged that well mitigation and related actions will be implemented in coordination with other programs related to mitigating and resolving well issues and impacts, as applicable, including County-administered programs; and

**NOW, THEREFORE BE IT RESOLVED,** in consideration of the conditions contained herein and these Recitals, which are hereby incorporated herein by this reference, the District has committed to review, consider, and undertake mitigation actions for water well impacts resulting from declining groundwater levels that occur from GSA management activities during the GSP Implementation Period, through development and implementation of a Well Mitigation Program (Program) as follows:

## 1. PROGRAM ELIGIBILITY AND APPLICATION

Program eligibility criteria will be finalized, potentially including:

- Property eligibility
- Eligible mitigation versus non-eligible mitigation (what will and will not be covered) based on evaluation of whether issues are related to groundwater management, which may include evaluation of:
    a. Groundwater levels
    b. Timing of groundwater decline
    c. Groundwater quality

d. Well casing

e. Well depth

f. Minimum threshold exceedances

g. Historical overdraft

h. Recent hydrology

i. Recharge programs

j. Age and condition of well

- Acute, short-term mitigation
- Chronic, long-term mitigation
- Identified areas of concern where minimum threshold exceedances and/or undesirable results have been documented.

Program application process (how property owners will apply to and be approved to participate in the Program):

- The District and/or CSGSA will draft an application, the purpose of which is to support determining eligibility, prioritization, well owner agreement, award, and implementation.

Prioritization (order in which applications are processed and funding is allocated)

- Initial applications will be prioritized based on the date of submittal.

The District and/or CSGSA will consider whether there are other reasons to consider prioritization of well-mitigation, including, but not limited to, groundwater quality, number of people served, availability of interim supplies, and office of emergency services service.

The District and/or CSGSA will also specify non-eligible services, potentially including, but not limited to:

- Ongoing maintenance
- Non-essential uses of water
- Repair or replacement of piping/infrastructure associated with moving water from the well itself to any other location.

## 2. PROGRAM MITIGATION MEASURES

Program mitigation measures may include, but are not limited to:

- Short-term solutions in emergencies, such as delivery of bottled water and/or water tanks. (Considered only for temporary mitigation while other actions are in progress.)

- Deepening existing water wells, or otherwise rehabilitating or replacing such wells (including abandonment of existing wells).
- Drinking water well consolidation (many-to-one).
- Connection to or development of public water systems to serve impacted communities.
- Connection to municipal water systems.

The appropriate Program mitigation measures for each mitigated well will be informed by and determined following a structured, programmatic initial well evaluation process involving (but not limited to):

- Inspection of the conditions of the well, including assessment of the current or anticipated operational issue(s) associated with the well and underlying causes of those impacts.
- Determination that the well impacts are related to groundwater management during the GSP Implementation Period (e.g., not related to effects of normal wear and tear on drinking water wells)
- Determination and recommendation of an appropriate mitigation strategy (i.e., one of the potential Program mitigation measures above).

The Program is considered a temporary solution to mitigating well impacts before achieving and maintaining sustainable groundwater conditions (by 2042).

The Program and implementation of program mitigation measures will be coordinated with other applicable programs in the Subbasin, including County-administered programs.

The parties anticipate that mitigation will occur only once for each well, and will be appropriate to and commensurate with the actual or anticipated well impacts resulting from groundwater management during the GSP Implementation Period. By way of example only, if a well is dry due to groundwater level decline, and deepening that well is the appropriate Program mitigation measure, the well will be deepened below the minimum threshold of the associated representative monitoring site well to reduce the likelihood that the same well impacts will not occur again during GSP implementation.

It is also anticipated that potential Program measures may include, but will not be limited to, well permitting or ordinances to spatially and vertically isolate new wells to minimize adverse impacts on existing water wells. The design and implementation of such measures would be coordinated with existing and/or new County well permitting processes and ordinances.

## 3. FUNDING AND FINANCING

The District and CSGSA will fund the Program through long term GSA funding mechanisms as determined by the District Board and CSGSA respectively.

Estimated expenses for the Program are anticipated to range between:

- $300,000 for Program startup (years 1-2), and $75,000 for Program administration thereafter (years 3+)
- $3,000,000 for Program mitigation measures, assuming (for planning purposes), that approximately 150 wells may require mitigation and that the cost of mitigation per well is approximately $20,000, on average, although the precise number and costs of mitigation are subject to refinement during Program development.

However, these numbers are only estimated for planning purposes and are subject to revision during Program development.

It is anticipated that the Program funding will come from one, or a combination, of the following sources established by the Parties:

- GSA fees and assessment
- Funds generated through implementation of other projects and **management actions (e.g., fines and/or penalties)**
- County/state/federal funding, as available
- Other sources, as identified

## 4. TERM

The Program shall be developed, and implementation shall begin no later than January 1, 2026 (the Program start date). The Program shall cover eligible mitigation as of the Program start date and shall continue thereafter until groundwater sustainability is achieved during the GSP Implementation Period, or as otherwise directed by the GSAs.

## 5. PROGRAM IMPLEMENTATION AND MANAGEMENT

It is anticipated that a committee will be formed to create and set the final terms of the Program. A draft implementation flow chart is attached, as **Exhibit A** for reference however the final implementation and management of the Program will be approved by the GSAs prior to the program start date.

## 6. WELL OWNER AGREEMENTS

After application, eligibility, and mitigation development, mitigation will need to be accompanied by a well owner agreement that includes several components, including but not limited to the following:

- Mitigation award (how will the costs of mitigation be reviewed and approved);
- Recordation of mitigation award;
- Post-mitigation responsibility (property owner to be responsible for operations, maintenance and repair of water well);
- Indemnification of the GSA;
- Easement or land use permissions

**7. ENVIRONMENTAL REVIEW**

The GSAs will complete any environmental review as may be determined necessary for Program implementation.

The foregoing Resolution was offered by Director _____ and seconded by Director _____on April 4, 2024 and adopted by the following vote:

AYES:

NOES:

ABSENT OR NOT VOTING:

STATE OF CALIFORNIA )

)

COUNTY OF TEHAMA )

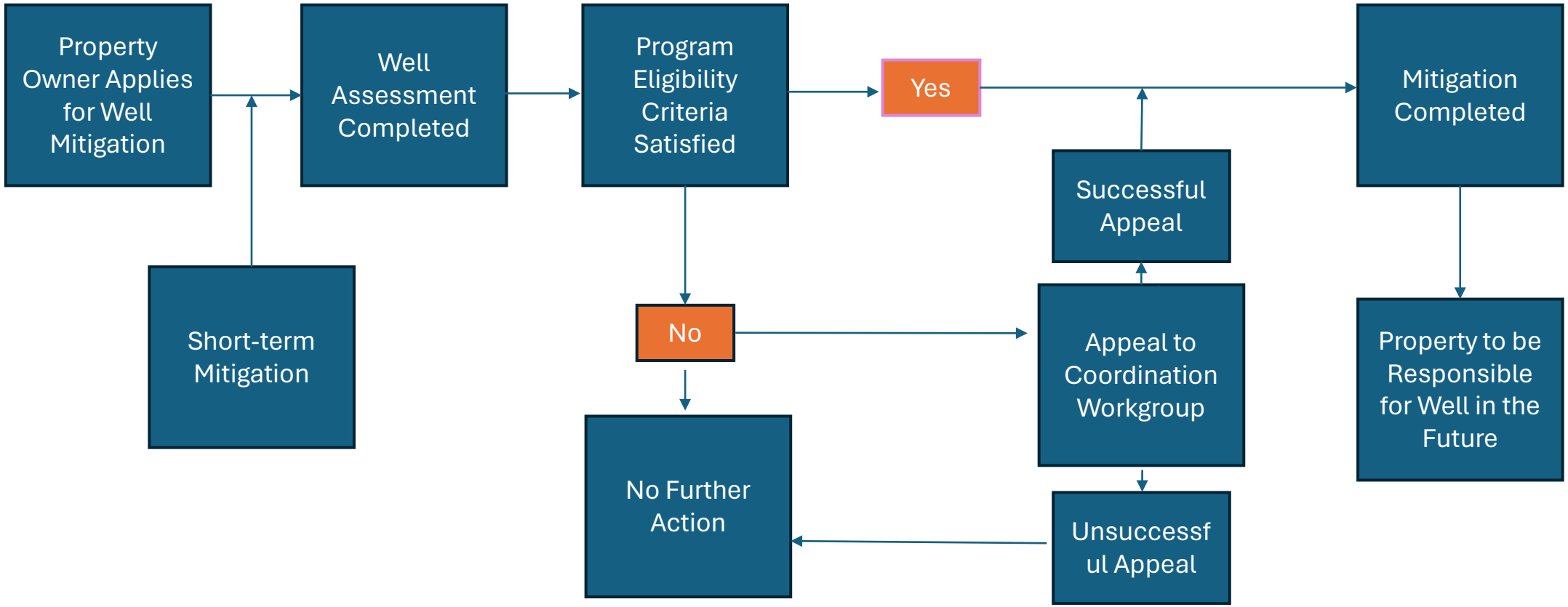
I, JENNIFER VISE, County Clerk and ex-officio Clerk of the Board of Directors of the Tehama County Flood Control and Water Conservation District, State of California, hereby certify the above and foregoing to be a full, true and correct copy of a resolution adopted by said Board of Directors on the ____ day of April 2024.

Dated: _____

JENNIFER A. VISE, County Clerk and ex-officio
Clerk of the Board of Directors of the Tehama
County Flood Control and Water Conservation District,
State of California

By: _____
Deputy

# Well Mitigation Example Flowchart




1. Steps shown herein are in tended to demonstrate critical decision points and is not intended to be indicative of all steps that may be required for Program implementation.
2. Steps shown herein are subject to revision by the TCFCWD GSA.
3. The TCFCWD GSA has reviewed and considered the content and recommendations set forth by: Self-Help Enterprises, Leadership Counsel for Justice and Accountability, and the Community Water Center in their publication titled, "Framework for a Drinking Water Well Impact Mitigation Program;" and by DWR in their guidance document, "Considerations for Identifying and Addressing Drinking Water Well Impacts"

**CORNING SUB-BASIN GROUNDWATER SUSTAINABILITY AGENCY**

**RESOLUTION NO. 2024-02**

**RESOLUTION ESTABLISHING A DEMAND MANAGEMENT PROGRAM FOR THE CORNING SUBBASIN**

**WHEREAS**, groundwater and surface water resources within the Corning Subbasin are vitally important resources for all beneficial uses and users, and to maintain the economic viability, prosperity, and sustainability of the Subbasin; and

**WHEREAS**, in 2014 the California Legislature passed a statewide framework for sustainable groundwater management, known as the Sustainable Groundwater Management Act, California Water Code § 10720-10737.8 (SGMA), pursuant to Senate Bill 1168, Senate Bill 1319, and Assembly Bill 1739, which was approved by the Governor on September 16, 2014. and went into effect on January 1, 2015; and

**WHEREAS**, the Subbasin has been designated by the California Department of Water Resources (DWR) as a high-priority subbasins and is subject to the requirements of SGMA; and

**WHEREAS**, SGMA requires that all medium and high priority groundwater basins in California be managed by a GSA and that such management be implemented pursuant to an approved Groundwater Sustainability Plan (GSP); and

**WHEREAS**, in January of 2022, the Corning Sub-basin GSA (CSGSA) and Tehama County Flood Control and Water Conservation District (the District), collectively the GSAs, submitted the Corning Subbasin GSP to DWR; and

**WHEREAS**, in October of 2023, DWR determined the GSP was incomplete and would require revisions prior to being determined as adequate under SGMA; and

**WHEREAS**, SGMA defines sustainability as the management of groundwater that can be maintained during the 20-year GSP Implementation Period without causing undesirable results; and

**WHEREAS,** under SGMA the GSAs are responsible for managing groundwater under the GSP to achieve and maintain sustainability according to conditions after SGMA was effective that are caused by groundwater management in the Subbasin; and

**WHEREAS,** it is acknowledged that sustainable management may result in some groundwater level decline during the GSP Implementation Period prior to achieving sustainable groundwater conditions by or before 2042 and this decline may give rise to adverse impacts to some wells; and

**WHEREAS**, the GSAs acknowledge that during the GSP Implementation Period it will be necessary to implement projects and management actions to achieve and maintain sustainable groundwater conditions in the Subbasins by or before 2042; and

**WHEREAS**, it is acknowledged that successful implementation of planned GSP projects to achieve their intended recharge benefits during the 20-year GSP Implementation Period (prior to 2042) is dependent in part on uncertainties related to hydrologic conditions, including precipitation and snowpack, and available water supply during that time period; and

**WHEREAS**, the GSAs acknowledge that implementation of management actions will be necessary to offset these uncertainties related to project implementation and project benefits to ensure that sustainable groundwater conditions are achieved in the Subbasin by or before 2042; and

**WHEREAS**, it is acknowledged that wet hydrologic conditions and faster implementation of projects may result in diminished need for management actions, and

**WHEREAS**, the GSAs acknowledge that dry hydrologic conditions, prolonged drought, and delayed implementation of projects may result in an accelerated need for management actions; and

**WHEREAS**, the GSAs recognize that in order to obtain a determination that the GSPs are adequate, DWR is seeking a firm commitment from the GSAs for their consideration of management action(s) to address and mitigate overdraft and groundwater level decline during their management of the Subbasin; and

**WHEREAS**, the GSAs acknowledge that they cannot control groundwater conditions not caused by actions taken by the GSA; and

**WHEREAS,** the GSAs acknowledge that SGMA requires sustainable groundwater management; however, SGMA does not make GSAs responsible for injury from overdraft; and

**WHEREAS**, the GSAs acknowledge that management action(s) to address and mitigate overdraft, groundwater level decline, and subsidence will be implemented in coordination with other related programs in the Subbasin and in the region, as applicable.

**NOW, THEREFORE BE IT RESOLVED**, in consideration of the conditions contained herein and these Recitals, which are hereby incorporated herein by this reference, the Tehama County Flood Control and Water Conservation District has committed to review, consider, and undertake mitigation actions for demand management through development of a Demand Management Program (Program) as follows:

1. **PROGRAM MEASURES**

   Due to the high risk associated with further large capacity pumping in areas designated as areas of special concern, the GSAs will implement a restriction on the installation of new production wells in those special designated areas within 90 days of the acceptance of this resolution. The restriction shall remain in place until the implementation date of the approved Demand Management Program.

The Program is anticipated to include some subset of the following Program measures:

- Measures to be considered and moved forward for **immediate implementation (at the Program start date)**. Measures may include, but are not limited to, the following voluntary measures for reducing demand:
    - Best management practices (agronomic practices, soil moisture monitoring and management, delayed irrigation and/or regulated deficit irrigation, runoff capture, etc. to reduce groundwater extraction)
    - Water conservation (focusing on activities to reduce consumptive use and groundwater extraction)
    - Encouraging use of all available surface water in lieu of groundwater pumping
    - Multi-benefit land repurposing (e.g., recharge basins, renewable energy, habitat, recreational spaces)
    - Incentivized land use changes that provide net groundwater benefit
    - Dry farming
    - Fallowing (not associated with groundwater substitution transfers)
- Measures to be considered and moved forward for **phased adaptive implementation** (i.e., develop the actions further so that they are ready to implement in phases, commensurate with issues). Measures may include, but are not limited to:
    - Allocations, considering:
        - Well restrictions
        - Pumping restrictions
        - Water market/trading and/or fee structures
- Phased adaptive implementation measures are to be implemented commensurate with:
    - The amount of demand reduction required.
    - The issue(s) facing the area(s) where the measure(s) are to be implemented, considering, but not confined to:
        - Options for regional implementation of certain actions (around a "Special Zones" where undesirable results are occurring), and/or
        - Options for Subbasin-wide implementation of certain actions (equal treatment of the Subbasin as a whole).

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- Options for Management Area-wide implementation of certain actions (equal treatment for all subbasins within the Subbasin or the entirety of the Subbasin)

**2. FUNDING AND FINANCING**

The District and CSGSA will fund the Program through long term GSA funding mechanisms as determined by the District Board and CSGSA respectively.

Estimated expenses for the Program are difficult to ascertain due to the significant variables involved. However, budgetary numbers will range from $150,000 to $1,000,000 annually.

However, these numbers are only estimated for planning purposes and are subject to revision during Program development.

It is anticipated that the Program funding will come from one, or a combination, of the following sources established by the Parties:

- GSA fees and assessment
- Funds generated through implementation of other projects and management actions (e.g., fines and/or penalties)
- County/state/federal funding, as available
- Other sources, as identified

**3. TERM**

The Program shall be developed and implementation shall begin no later than January 1, 2027 (the Program start date). Upon implementation, the Program shall continue in perpetuity unless otherwise directed by the GSAs.

**4. PROGRAM DEVELOPMENT**

The GSAs shall, as part of Program development, define the Program's purpose, objectives, scope, roles and responsibilities, requirements, and potential outcomes.

The anticipated goal of the Program is to address and mitigate overdraft and groundwater level decline, and related undesirable results during the GSP Implementation Period, as defined in the Revised GSP, by reducing demand for groundwater.

Items for consideration during Program development include, but are not limited to:

- Definitions
- Program measures, including:

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    - Measures for immediate implementation (i.e., measures that will move forward at the Program start date)
    - Measures for phased adaptive implementation (i.e., measures that will be developed further so that they are ready to implement in phases, commensurate with issues)
- Public outreach and engagement process
- Coordination of Program with other related programs in the region, as applicable
- Implementation considerations and protocol for phased adaptive implementation measures:
    - Identification of area(s) where measures are applicable
    - Determination of sustainable yield for those areas
    - Determination of an appropriate transition period from current to sustainable conditions (prior to 2042), considering uncertainties of the basin setting and of the timelines for other projects.
    - Process and timeline for implementing phased measures.
    - Process and timeline for evaluating and adapting measures to respond to changing conditions (in annual reports and periodic GSP evaluations).
    - Considerations for allocation development and enforcement, as applicable, related to consumed versus extracted groundwater.
    - Monitoring and enforcement process
    - Funding and financing, including the planned annual Program funding responsibilities.

**5. PROGRAM IMPLEMENTATION AND MANAGEMENT**

It is anticipated that a committee will be formed to create and set the final terms of the Program. The final implementation and management of the Program will be approved by the GSAs prior to the program start date.

**6. ENVIRONMENTAL REVIEW**

The GSAs will complete any environmental review as may be determined necessary for Program implementation.

**PASSED, APPROVED AND ADOPTED by the Committee of Members of the CORNING SUB-BASIN GROUNDWATER SUSTAINABILITY AGENCY** on this 4th day of April 2024.

AYES:

NOES:

ABSENT:

ABSTAIN:

DRAFT

## CERTIFICATE OF RESOLUTION

We, the undersigned, hereby certify as follows:

1. That we are the Chair and Secretary of the CORNING SUB-BASIN GROUNDWATER SUSTAINABILITY AGENCY; and

2. That the foregoing resolution, consisting of 6 pages, including this page, is a true and correct copy of a resolution of the Committee of Members of the Corning Sub-basin Groundwater Sustainability Agency, passed at the meeting of the Committee of Members held on April 4, 2024, IN WITNESS WHEREOF, we have signed this certificate this 4th day of April 2024.

_____ John Amaro, Chair of the Corning Sub-basin Groundwater Sustainability Agency

_____ Lisa Hunter, Secretary

DRAFT

**Resolution No. 2-2024**

**A RESOLUTION OF THE TEHAMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT BOARD OF DIRECTORS ESTABLISHING A DEMAND MANAGEMENT PROGRAM FOR THE CORNING SUBBASIN**

**WHEREAS**, groundwater and surface water resources within the Corning Subbasin are vitally important resources for all beneficial uses and users, and to maintain the economic viability, prosperity, and sustainability of the Subbasin; and

**WHEREAS**, in 2014 the California Legislature passed a statewide framework for sustainable groundwater management, known as the Sustainable Groundwater Management Act, California Water Code § 10720-10737.8 (SGMA), pursuant to Senate Bill 1168, Senate Bill 1319, and Assembly Bill 1739, which was approved by the Governor on September 16, 2014. and went into effect on January 1, 2015; and

**WHEREAS**, the Subbasin has been designated by the California Department of Water Resources (DWR) as a high-priority subbasins and is subject to the requirements of SGMA; and

**WHEREAS**, SGMA requires that all medium and high priority groundwater basins in California be managed by a GSA and that such management be implemented pursuant to an approved Groundwater Sustainability Plan (GSP); and

**WHEREAS**, in January of 2022, the Corning Sub-basin GSA (CSGSA) and Tehama County Flood Control and Water Conservation District (the District), collectively the GSAs, submitted the Corning Subbasin GSP to DWR; and

**WHEREAS**, in October of 2023, DWR determined the GSP was incomplete and would require revisions prior to being determined as adequate under SGMA; and

**WHEREAS**, SGMA defines sustainability as the management of groundwater that can be maintained during the 20-year GSP Implementation Period without causing undesirable results; and

**WHEREAS,** under SGMA the GSAs are responsible for managing groundwater under the GSP to achieve and maintain sustainability according to conditions after SGMA was effective that are caused by groundwater management in the Subbasin; and

**WHEREAS,** it is acknowledged that sustainable management may result in some groundwater level decline during the GSP Implementation Period prior to achieving sustainable groundwater conditions by or before 2042 and this decline may give rise to adverse impacts to some wells; and

**WHEREAS**, the GSAs acknowledge that during the GSP Implementation Period it will be necessary to implement projects and management actions to achieve and maintain sustainable groundwater conditions in the Subbasins by or before 2042; and

**WHEREAS**, it is acknowledged that successful implementation of planned GSP projects to achieve their intended recharge benefits during the 20-year GSP Implementation Period (prior to 2042) is dependent in part on uncertainties related to hydrologic conditions, including precipitation and snowpack, and available water supply during that time period; and

**WHEREAS**, the GSAs acknowledge that implementation of management actions will be necessary to offset these uncertainties related to project implementation and project benefits to ensure that sustainable groundwater conditions are achieved in the Subbasin by or before 2042; and

**WHEREAS**, it is acknowledged that wet hydrologic conditions and faster implementation of projects may result in diminished need for management actions, and

**WHEREAS**, the GSAs acknowledge that dry hydrologic conditions, prolonged drought, and delayed implementation of projects may result in an accelerated need for management actions; and

**WHEREAS**, the GSAs recognize that in order to obtain a determination that the GSPs are adequate, DWR is seeking a firm commitment from the GSAs for their consideration of management action(s) to address and mitigate overdraft and groundwater level decline during their management of the Subbasin; and

**WHEREAS**, the GSAs acknowledge that they cannot control groundwater conditions not caused by actions taken by the GSA; and

**WHEREAS,** the GSAs acknowledge that SGMA requires sustainable groundwater management; however, SGMA does not make GSAs responsible for injury from overdraft; and

**WHEREAS**, the GSAs acknowledge that management action(s) to address and mitigate overdraft, groundwater level decline, and subsidence will be implemented in coordination with other related programs in the Subbasin and in the region, as applicable.

**NOW, THEREFORE BE IT RESOLVED**, in consideration of the conditions contained herein and these Recitals, which are hereby incorporated herein by this reference, the Tehama County Flood Control and Water Conservation District has committed to review, consider, and undertake mitigation actions for demand management through development of a Demand Management Program (Program) as follows:

## 1. PROGRAM MEASURES

Due to the high risk associated with further large capacity pumping in areas designated as areas of special concern, the GSAs will implement a restriction on the installation of new production wells in those special designated areas within 90 days of the acceptance of this resolution. The

restriction shall remain in place until the implementation date of the approved Demand Management Program.

The Program is anticipated to include some subset of the following Program measures:

- Measures to be considered and moved forward for **immediate implementation (at the Program start date)**. Measures may include, but are not limited to, the following voluntary measures for reducing demand:
  - Best management practices (agronomic practices, soil moisture monitoring and management, delayed irrigation and/or regulated deficit irrigation, runoff capture, etc. to reduce groundwater extraction)
  - Water conservation (focusing on activities to reduce consumptive use and groundwater extraction)
  - Encouraging use of all available surface water in lieu of groundwater pumping
  - Multi-benefit land repurposing (e.g., recharge basins, renewable energy, habitat, recreational spaces)
  - Incentivized land use changes that provide net groundwater benefit
  - Dry farming
  - Fallowing (not associated with groundwater substitution transfers)

- Measures to be considered and moved forward for **phased adaptive implementation** (i.e., develop the actions further so that they are ready to implement in phases, commensurate with issues). Measures may include, but are not limited to:
  - Allocations, considering:
    - Well restrictions
    - Pumping restrictions
    - Water market/trading and/or fee structures

- Phased adaptive implementation measures are to be implemented commensurate with:
  - The amount of demand reduction required.
  - The issue(s) facing the area(s) where the measure(s) are to be implemented, considering, but not confined to:
    - Options for regional implementation of certain actions (around a “Special Zones” where undesirable results are occurring), and/or

- Options for Subbasin-wide implementation of certain actions (equal treatment of the Subbasin as a whole).
- Options for Management Area-wide implementation of certain actions (equal treatment for all subbasins within the Subbasin or the entirety of the Subbasin)

## 2. FUNDING AND FINANCING

The District and CSGSA will fund the Program through long term GSA funding mechanisms as determined by the District Board and CSGSA respectively.

Estimated expenses for the Program are difficult to ascertain due to the significant variables involved. However, budgetary numbers will range from $150,000 to $1,000,000 annually.

However, these numbers are only estimated for planning purposes and are subject to revision during Program development.

It is anticipated that the Program funding will come from one, or a combination, of the following sources established by the Parties:

- GSA fees and assessment
- Funds generated through implementation of other projects and management actions (e.g., fines and/or penalties)
- County/state/federal funding, as available
- Other sources, as identified

## 3. TERM

The Program shall be developed and implementation shall begin no later than January 1, 2027 (the Program start date). Upon implementation, the Program shall continue in perpetuity unless otherwise directed by the GSAs.

## 4. PROGRAM DEVELOPMENT

The GSAs shall, as part of Program development, define the Program's purpose, objectives, scope, roles and responsibilities, requirements, and potential outcomes.

The anticipated goal of the Program is to address and mitigate overdraft and groundwater level decline, and related undesirable results during the GSP Implementation Period, as defined in the Revised GSP, by reducing demand for groundwater.

Items for consideration during Program development include, but are not limited to:

- Definitions
- Program measures, including:
    - Measures for immediate implementation (i.e., measures that will move forward at the Program start date)
    - Measures for phased adaptive implementation (i.e., measures that will be developed further so that they are ready to implement in phases, commensurate with issues)
- Public outreach and engagement process
- Coordination of Program with other related programs in the region, as applicable
- Implementation considerations and protocol for phased adaptive implementation measures:
    - Identification of area(s) where measures are applicable
    - Determination of sustainable yield for those areas
    - Determination of an appropriate transition period from current to sustainable conditions (prior to 2042), considering uncertainties of the basin setting and of the timelines for other projects.
    - Process and timeline for implementing phased measures.
    - Process and timeline for evaluating and adapting measures to respond to changing conditions (in annual reports and periodic GSP evaluations).
    - Considerations for allocation development and enforcement, as applicable, related to consumed versus extracted groundwater.
    - Monitoring and enforcement process
    - Funding and financing, including the planned annual Program funding responsibilities.

## 5. PROGRAM IMPLEMENTATION AND MANAGEMENT

It is anticipated that a committee will be formed to create and set the final terms of the Program. The final implementation and management of the Program will be approved by the GSAs prior to the program start date.

## 6. ENVIRONMENTAL REVIEW

The GSAs will complete any environmental review as may be determined necessary for Program implementation.

The foregoing Resolution was offered by Director _____ and seconded by Director _____on April 4, 2024 and adopted by the following vote:

AYES:

NOES:

ABSENT OR NOT VOTING:

STATE OF CALIFORNIA )
)
COUNTY OF TEHAMA )

I, JENNIFER VISE, County Clerk and ex-officio Clerk of the Board of Directors of the Tehama County Flood Control and Water Conservation District, State of California, hereby certify the above and foregoing to be a full, true and correct copy of a resolution adopted by said Board of Directors on the ____ day of April 2024.

Dated: _____

JENNIFER A. VISE, County Clerk and ex-officio
Clerk of the Board of Directors of the Tehama
County Flood Control and Water Conservation District,
State of California

By: _____
Deputy

4. **Upcoming Meeting Reminders**

    a. **Corning Sub-basin GSA meeting April 11, 2024, 2:00 p.m. at 7854 County Road 203, Orland**

    b. **Tehama County Flood Control and Water Conservation District meeting April 15, 2024, 10:00 a.m. at 727 Oak St., Red Bluff.**

    Public Hearings on the Revised Corning Subbasin GSP and consideration to adopt the Revised Corning Subbasin GSP are scheduled for the April 11, 2024 CSGSA meeting and the April 15, 2024 TCFCWCD meeting.

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5. **Groundwater Sustainability Agency Member Reports and Comments**

    Members of the CSGSA and the TCFCWCD are encouraged to share information, reports, and comments. Action cannot be taken on matters brought up under this item.

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6. **Adjourn**

    The meeting will be adjourned.

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