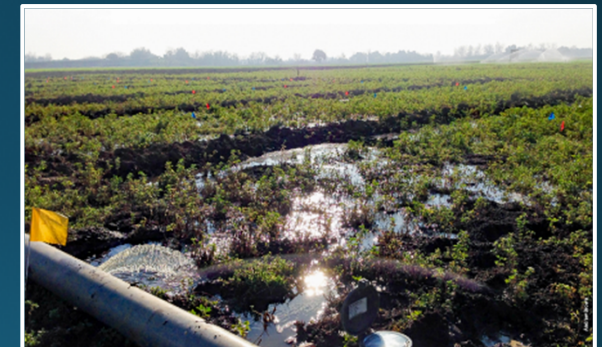
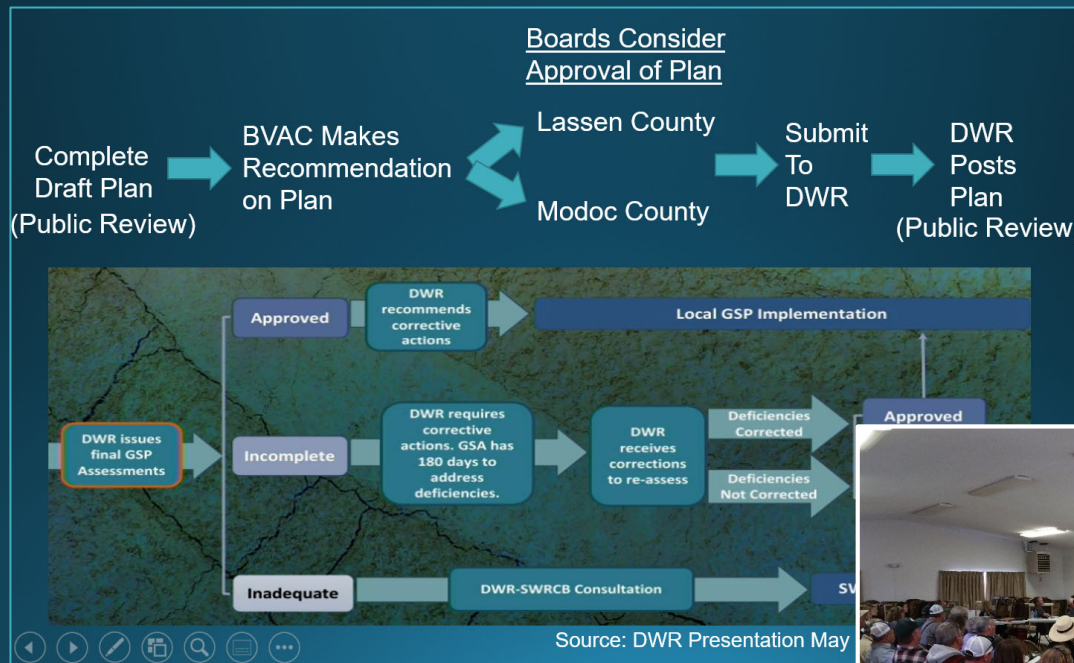
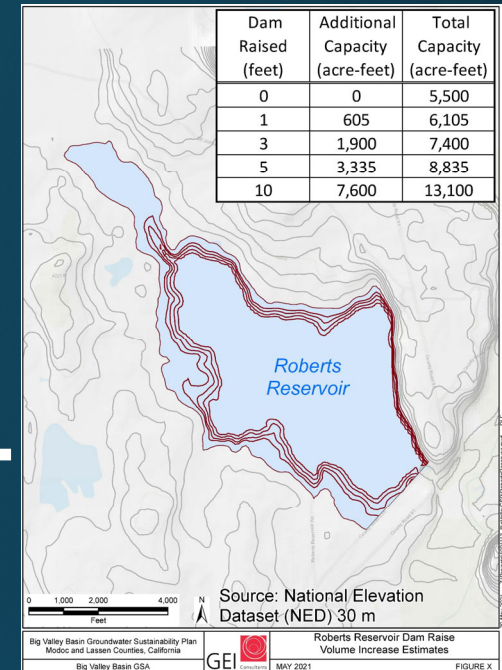


Groundwater Sustainability Plan for Big Valley Groundwater Basin

Lassen and Modoc Counties

Advisory Committee Meeting 11

June 2, 2021



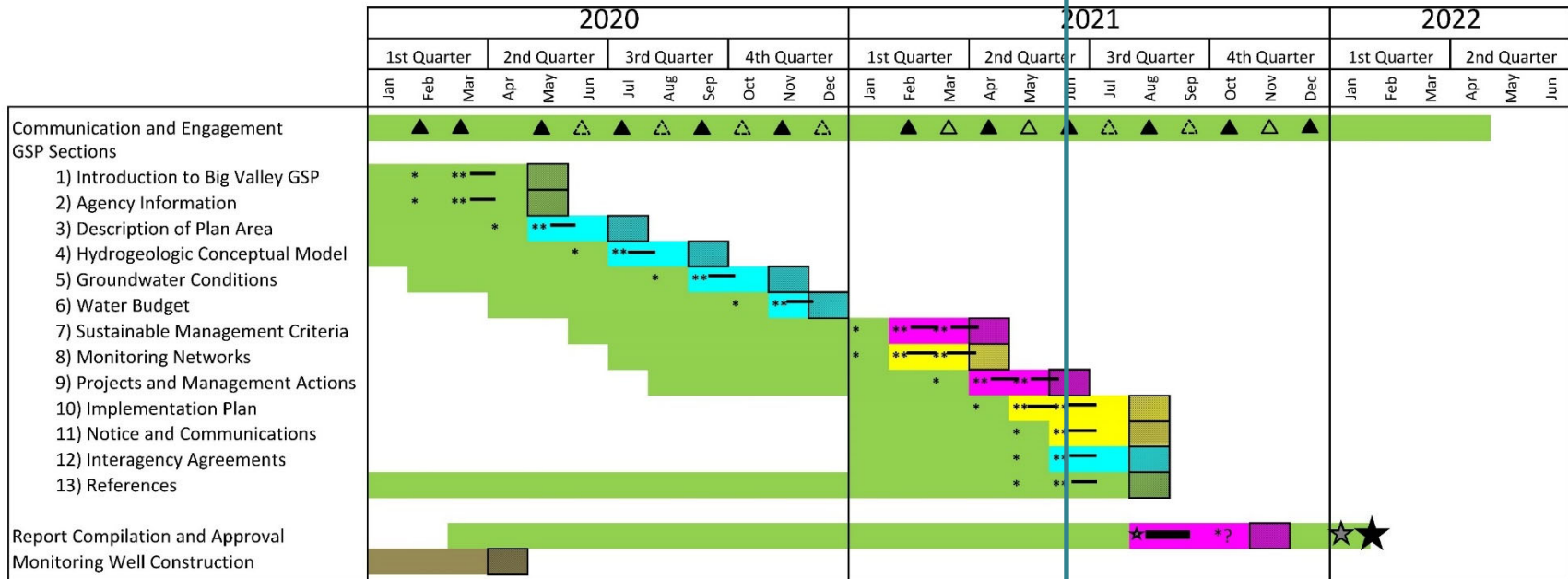
Source: UCANR Andrew Brown



GENERAL UPDATES AND SCHEDULE

TODAY

Tentative Schedule

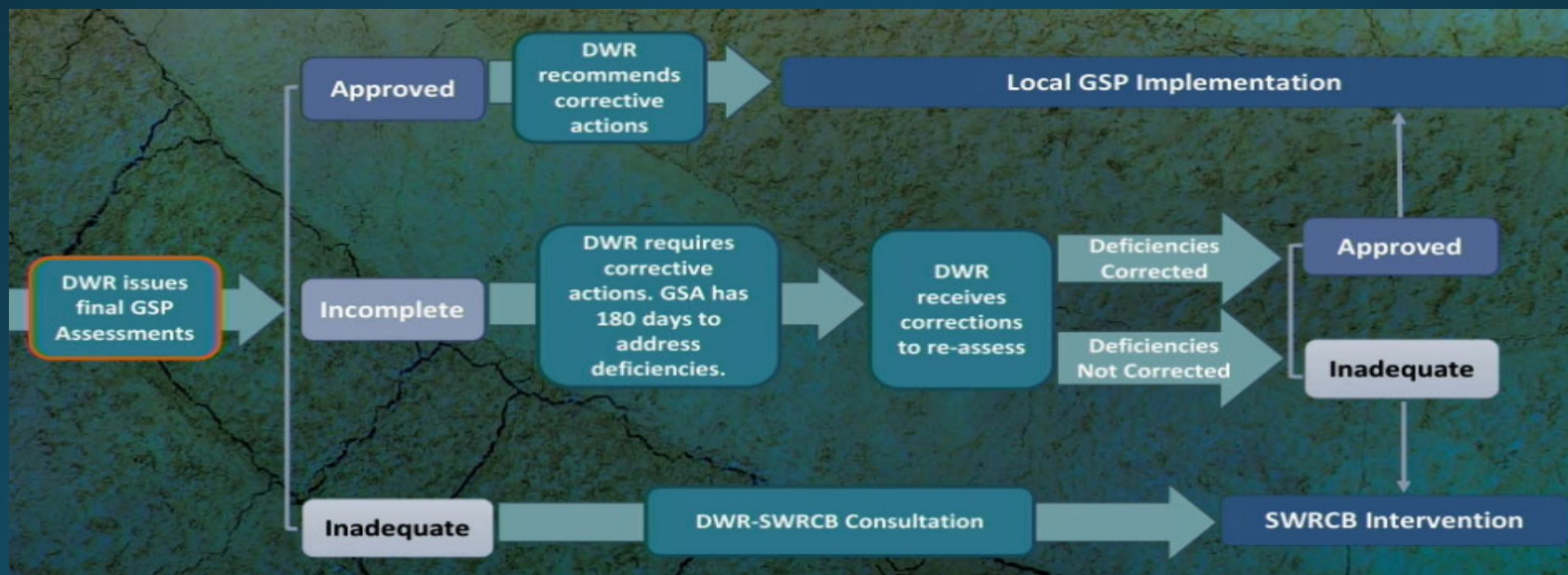
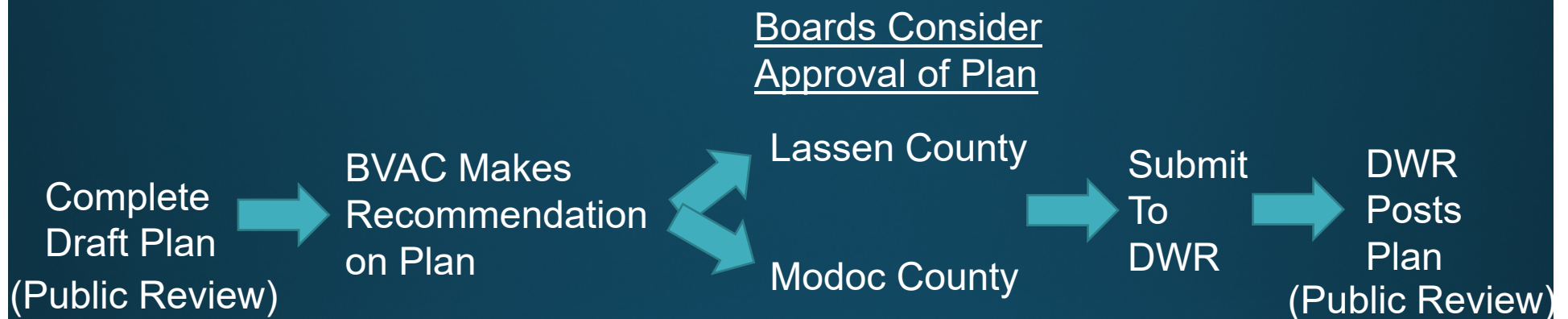


Schedule Key



Updated 12/1/2020

HOW DOES A GSP GET APPROVED?



Source: DWR Presentation May 2021

WHERE ARE WE NOW?

1 Introduction

2 Agency Information

3 Description of Plan Area

4 Hydrogeologic Conceptual Model

5 Groundwater Conditions

6 Water Budget

7 Sustainable Management Criteria

8 Monitoring Networks

9 Projects and Management Actions

10 Implementation Plan

11 Notice and Communications

12 Interagency Agreements

13 Reference List

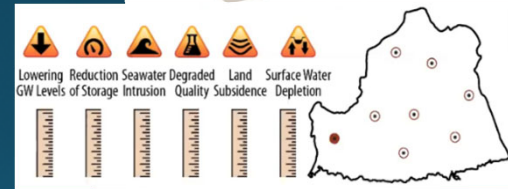
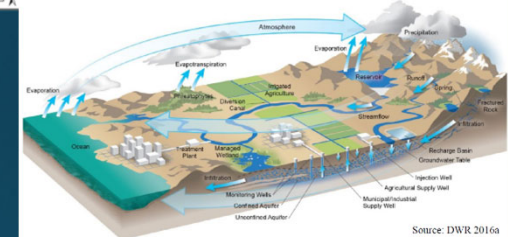
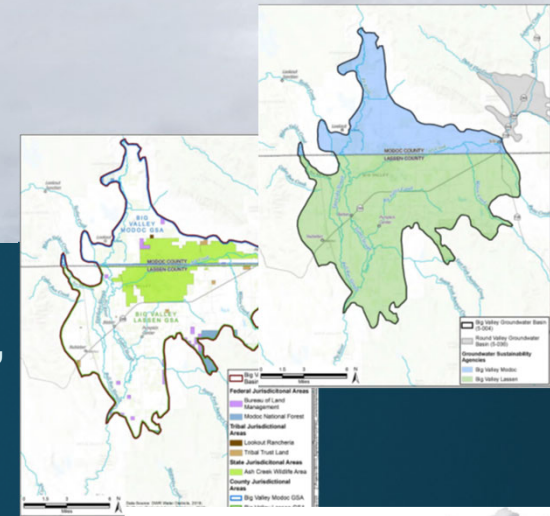
“Background”

“Science”

“Planning”

“Implementation”

“This plan is based on the best available information and science”



Source: UCANR Andrew Brown



Source: Westlands Water District

NOW

OVERALL PURPOSE - TO COMPLETE THE MANDATED GSP TO ATTAIN:

...to maintain a locally governed, economically feasible, sustainable groundwater basin and surrounding watershed for existing and future legal beneficial uses with a concentration on agriculture. Sustainable management will be conducted in context with the unique culture of the basin, character of the community, quality of life of the Big Valley residents...

AGENDA

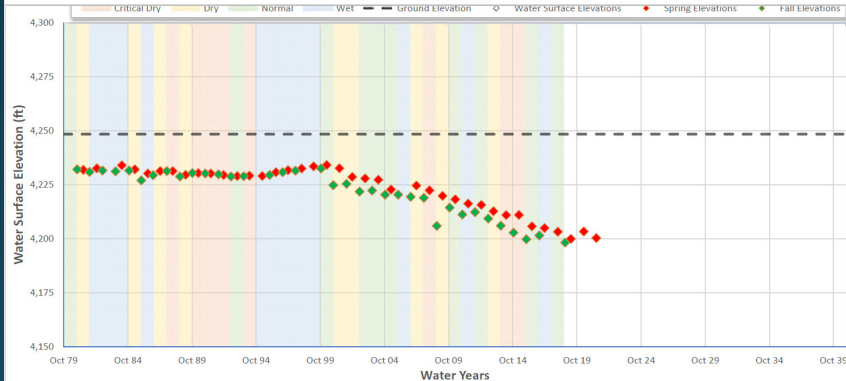
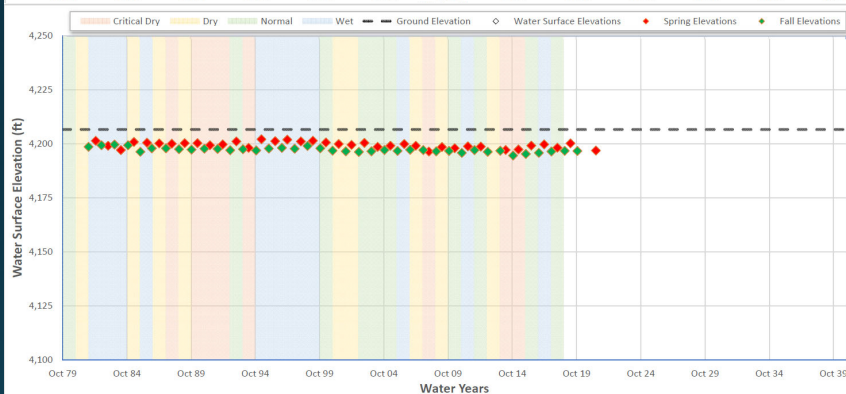
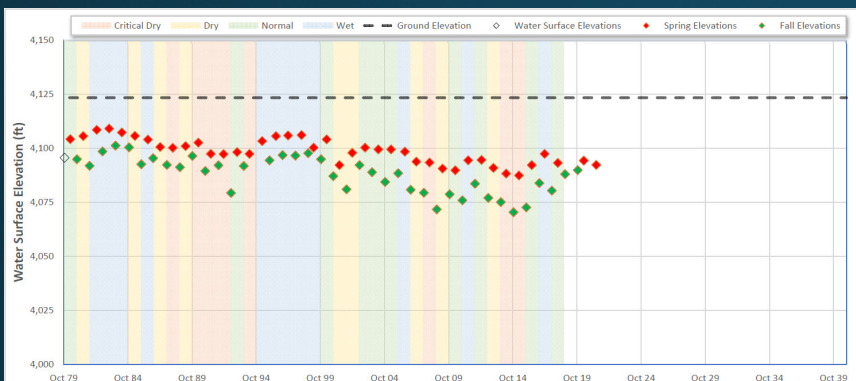
- Subject #1: Introduce Revised Draft Chapter 8 (Monitoring Networks)
 - Receive comment and possible set aside
- Subject #2: Introduce Public Draft Chapter 9 (Projects and Management Actions)
 - Receive comment
- Subject #3: Introduce Public Draft Chapter 10 (Implementation Plan)
 - Receive comment

AGENDA

- Subject #1: Introduce Revised Draft Chapter 8 (Monitoring Networks)
- **Review, discuss, and receive comment on edits and new language. Set aside if possible**

SUBJECT #1: CHAP 8 MONITORING NETWORKS

Water Level Update Spring 2021

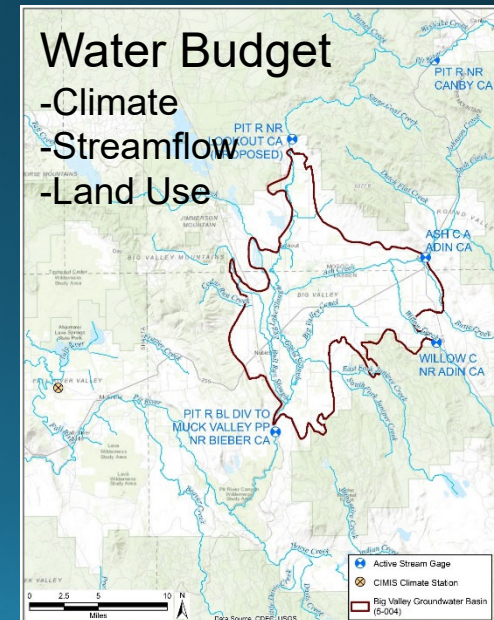
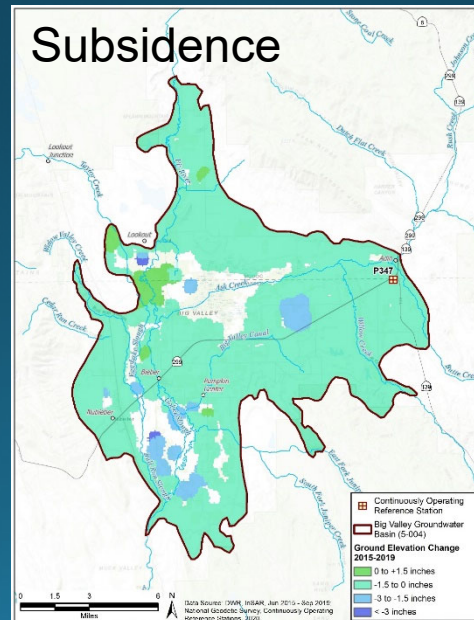
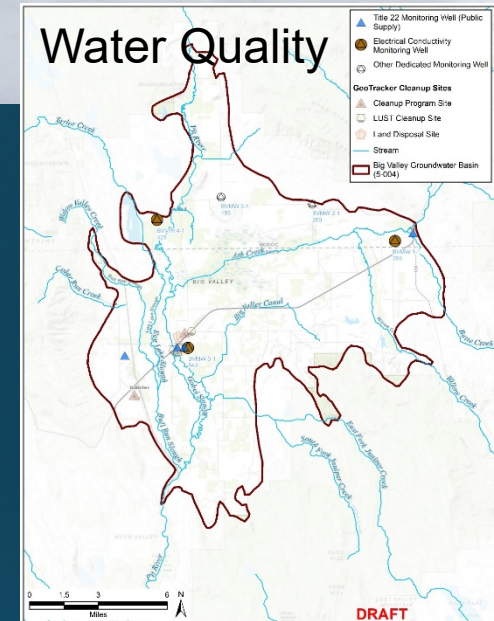
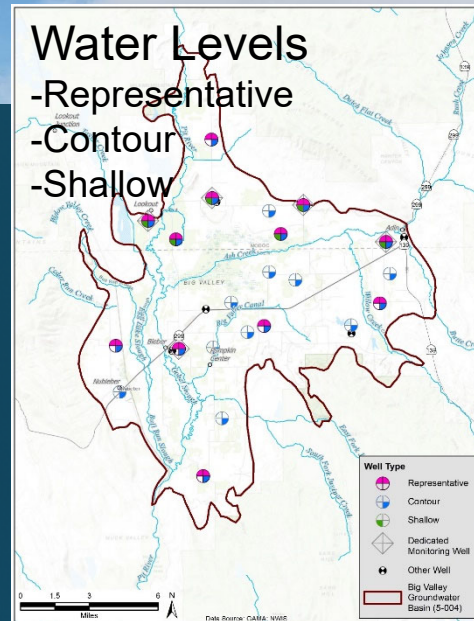


| | Number of Wells Higher | Number of Wells Lower | Average Change in Water Level (feet) |
|----------------------------|------------------------|-----------------------|--------------------------------------|
| Fall 2015 to Spring 2021 | 12 | 2 | 17.0 |
| Spring 2015 to Spring 2021 | 7 | 7 | 3.3 |

SUBJECT #1: CHAP 8 MONITORING NETWORKS

Summary of changes to Chap 8:

- Text changes to emphasize uncertainty
- Minimum Threshold changed to 140 feet below 2015 baseline.



SUBJECT #1: CHAP 8 MONITORING NETWORKS

Receive Public Comment on Revised Draft Chapter 8

Vote to “Set aside” Chapter 8?

AGENDA

- Subject #2: Introduce Public Draft Chapter 9 (Projects and Management Actions)
- **Review, identify, and receive comment on current content and potential edits. Possibly set aside at the July BVAC meeting**

SUBJECT #2: CHAP 9 PROJECTS AND MANAGEMENT ACTIONS

Projects and Management Actions Included:

- Agricultural Managed Aquifer Recharge (AgMAR)
- Research and Data Development
- Increased Surface Water Storage
- Increased Hydrologic Function and Recharge in Uplands
- Water Conservation
- Education and Outreach

SUBJECT #2: CHAP 9 PROJECTS AND MANAGEMENT ACTIONS

AgMAR



Source: UCANR Andrew Brown

SUBJECT #2: CHAP 9 PROJECTS AND MANAGEMENT ACTIONS

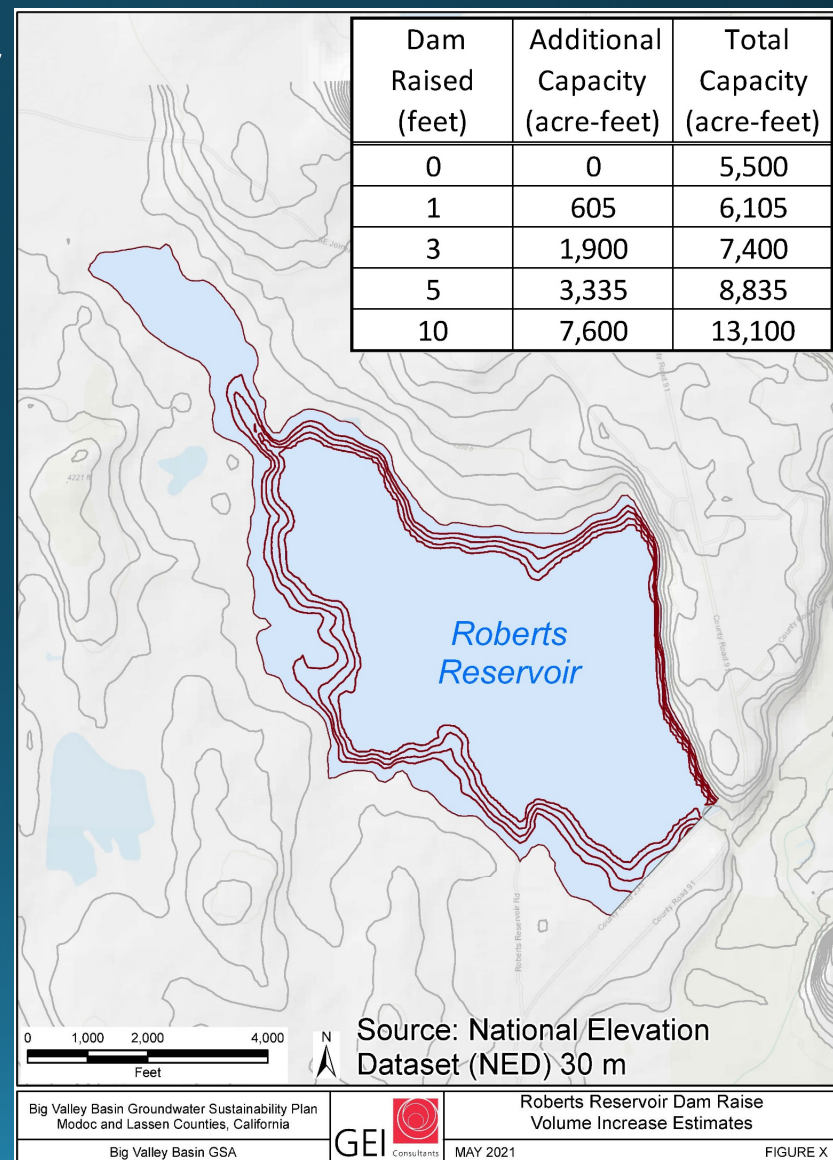
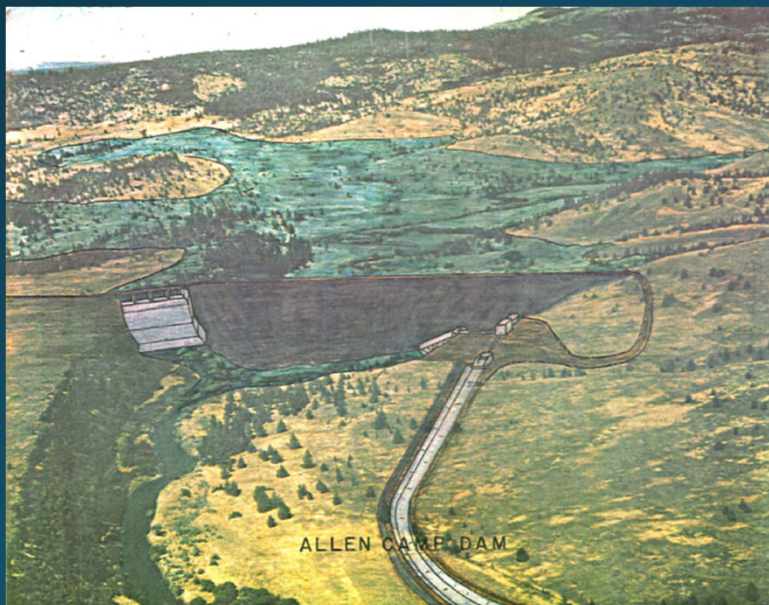
Research and Data Development

- Stream gages and flow measurement
- Water budget refinement
 - CIMIS station
 - ET vs applied water
 - Voluntary monitoring through LMFCWCD
- Adaptive Management

SUBJECT #2: CHAP 9 PROJECTS AND MANAGEMENT ACTIONS

Increased Surface Water Storage

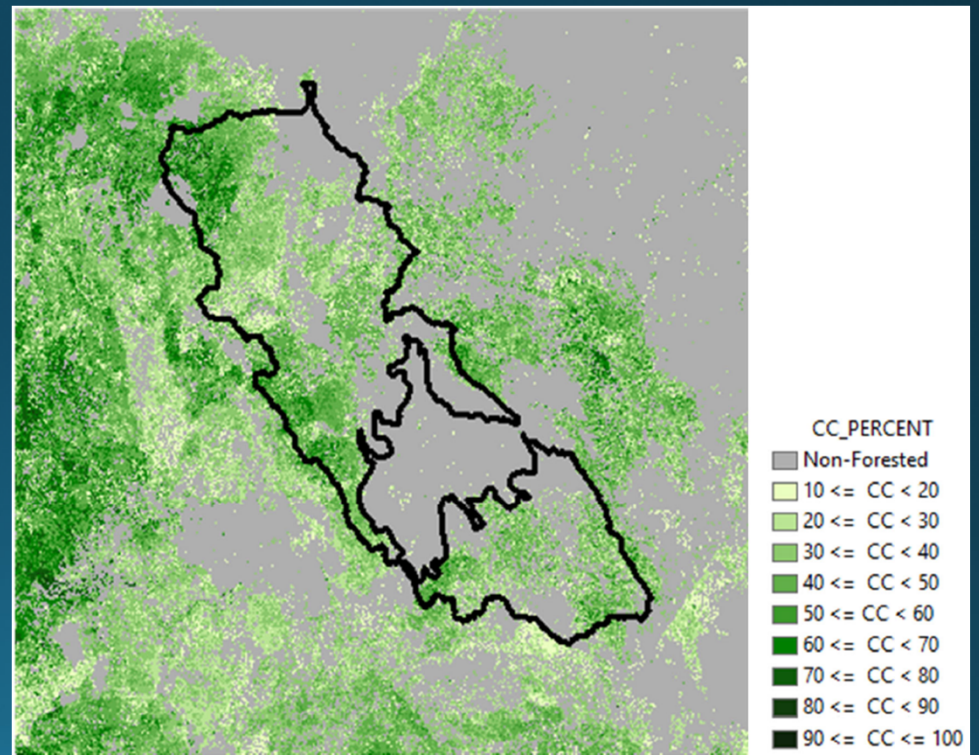
- Expand reservoirs
- Allen Camp Dam



SUBJECT #2: CHAP 9 PROJECTS AND MANAGEMENT ACTIONS

Increased Hydrologic Function and Recharge in Uplands

- Forest thinning (Juniper)
- Stream channel enhancement and meadow restoration



SUBJECT #2: CHAP 9 PROJECTS AND MANAGEMENT ACTIONS

Water Conservation

- Irrigation efficiency
- Landscaping and domestic water conservation
- Public education and outreach

SUBJECT #2: CHAP 9 PROJECTS AND MANAGEMENT ACTIONS

Receive Public Comment on Public Draft Chapter 9

AGENDA

- Subject #3: Introduce Public Draft Chapter 10 (Implementation Plan)
- **Review, identify, and receive comment on current content and potential edits. Possibly set aside at the July BVAC meeting**

CHAP 10 IMPLEMENTATION PLAN

What happens after the GSP is submitted?

| Frequency | Activity |
|--------------------------|--|
| Annual | GSA Administration and Public Outreach |
| | Monitoring and Data Management |
| | Annual Reports |
| 5-years | GSP Updates ★ |
| Ongoing/ intermittent | Projects and Management Actions |

★ Requires Professional Geologist or Engineer stamp

CHAP 10 IMPLEMENTATION PLAN

Funding Implementation

Conversations are ongoing

| Frequency | Activity |
|--------------------------|--|
| Annual | GSA Administration and Public Outreach |
| | Monitoring and Data Management |
| | Annual Reports |
| 5-years | GSP Updates |
| Ongoing/ intermittent | Projects and Management Actions |

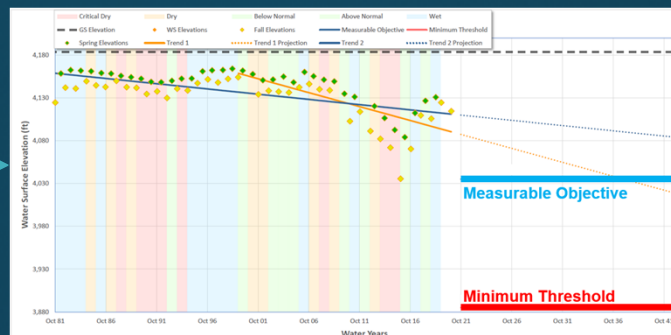
→ ??

| Funding Mechanism | Source |
|--------------------------|-----------------------|
| Assistance Programs | State |
| Grant Funding | State, Federal, Other |
| General Funds | Counties |
| Fees, Assessments, Taxes | Locals |

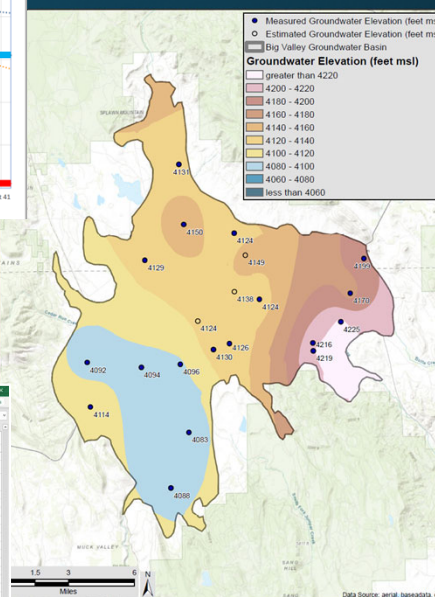
SUBJECT #3: CHAP 10 IMPLEMENTATION PLAN

Annual Reports

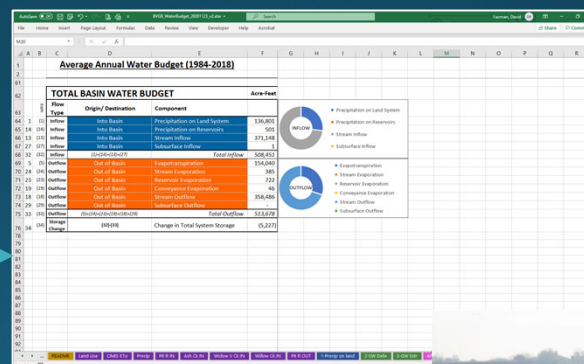
- Water Level Hydrographs



- Groundwater Contours



- Water Use Estimates (Water Budget)



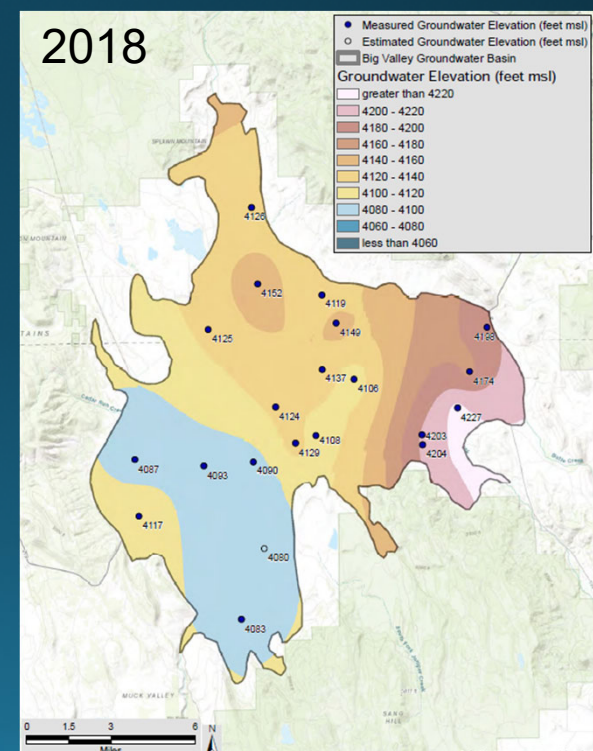
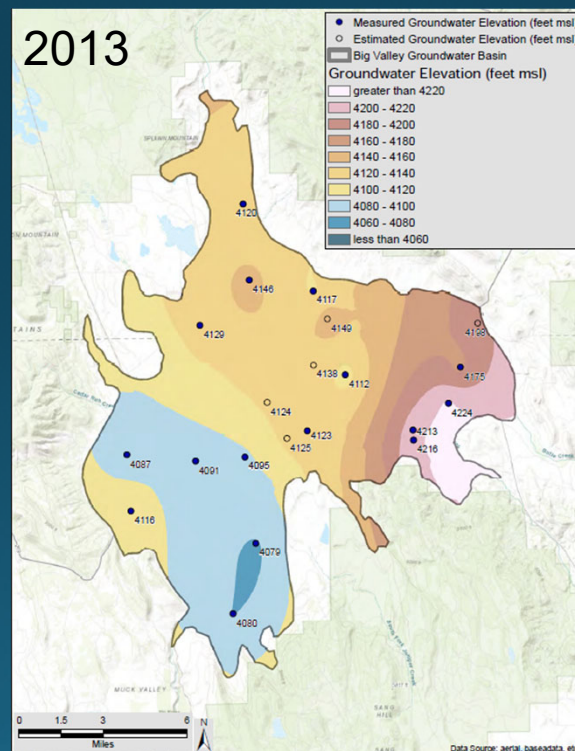
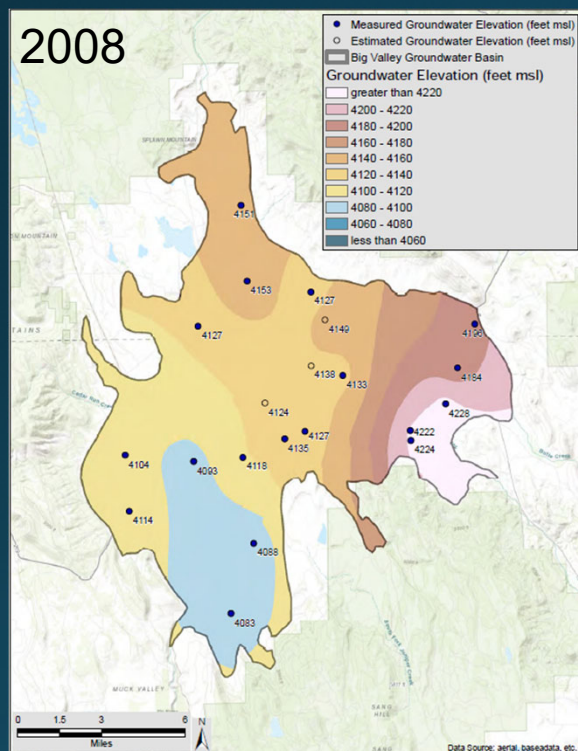
- Status of Projects and Management Actions



Source: UCANR Andrew Brown

SUBJECT #3: CHAP 10 IMPLEMENTATION PLAN

- Groundwater Contours
 - Change on a yearly basis
 - Typically similar, but not exactly the same each year
 - Gives a snapshot of the status of the basin.



SUBJECT #3: CHAP 10 IMPLEMENTATION PLAN

Receive Public Comment on Public Draft Chapter 10

QUESTIONS OR COMMENTS FOR ITEMS NOT ON THE AGENDA



- GSA Staff and Consultants will be available after the meeting to talk, answer questions, and hear your concerns.