

Sustainable Groundwater Management Act Implementation in Yolo County

Water Education Foundation Groundwater Tour

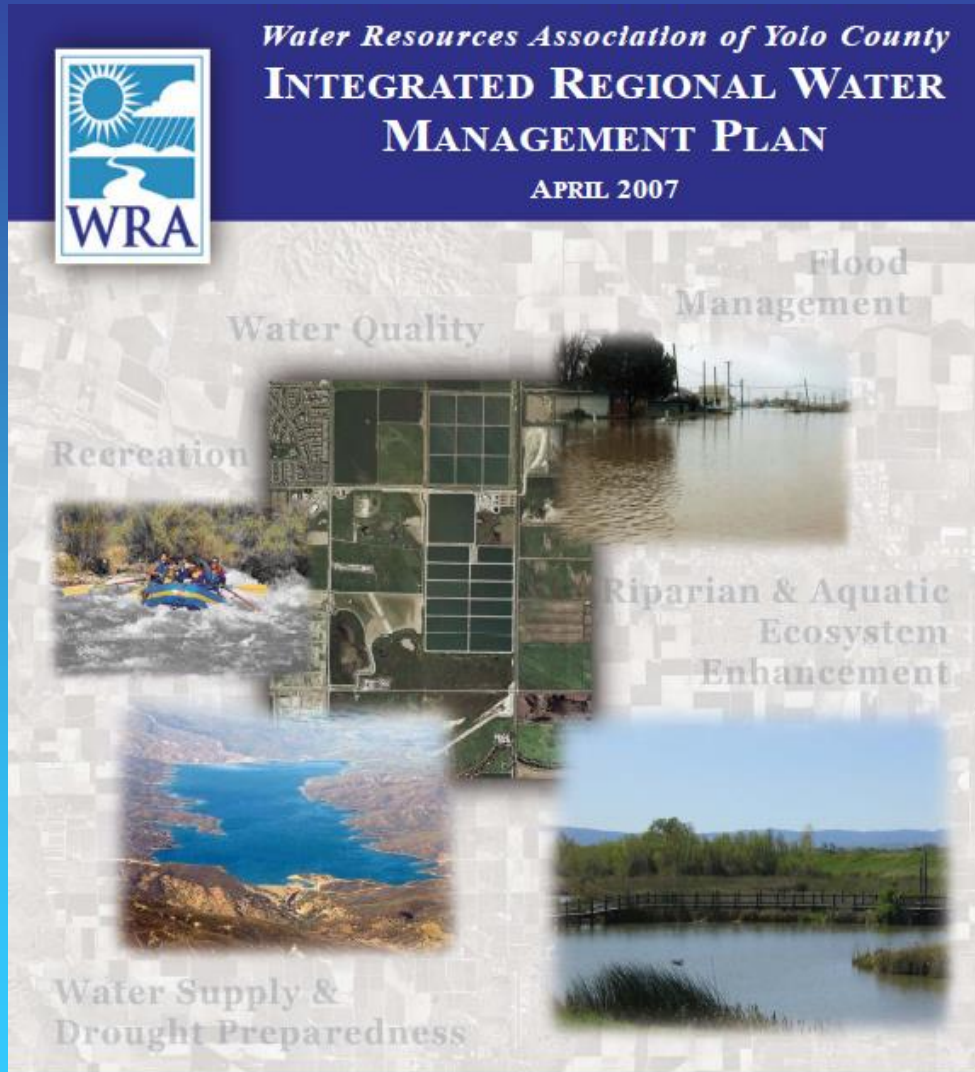
Tim O'Halloran
WWW.YCFCWCD.ORG
October 5, 2016

Clear Lake and Cache Creek Watershed





Integrated Regional Water Management Plan



- ✓ Water Supply & Drought Preparedness
- ✓ Water Quality
- ✓ Storm Drainage and Flood Control
- ✓ Aquatic Ecosystem Enhancement
- ✓ Recreation

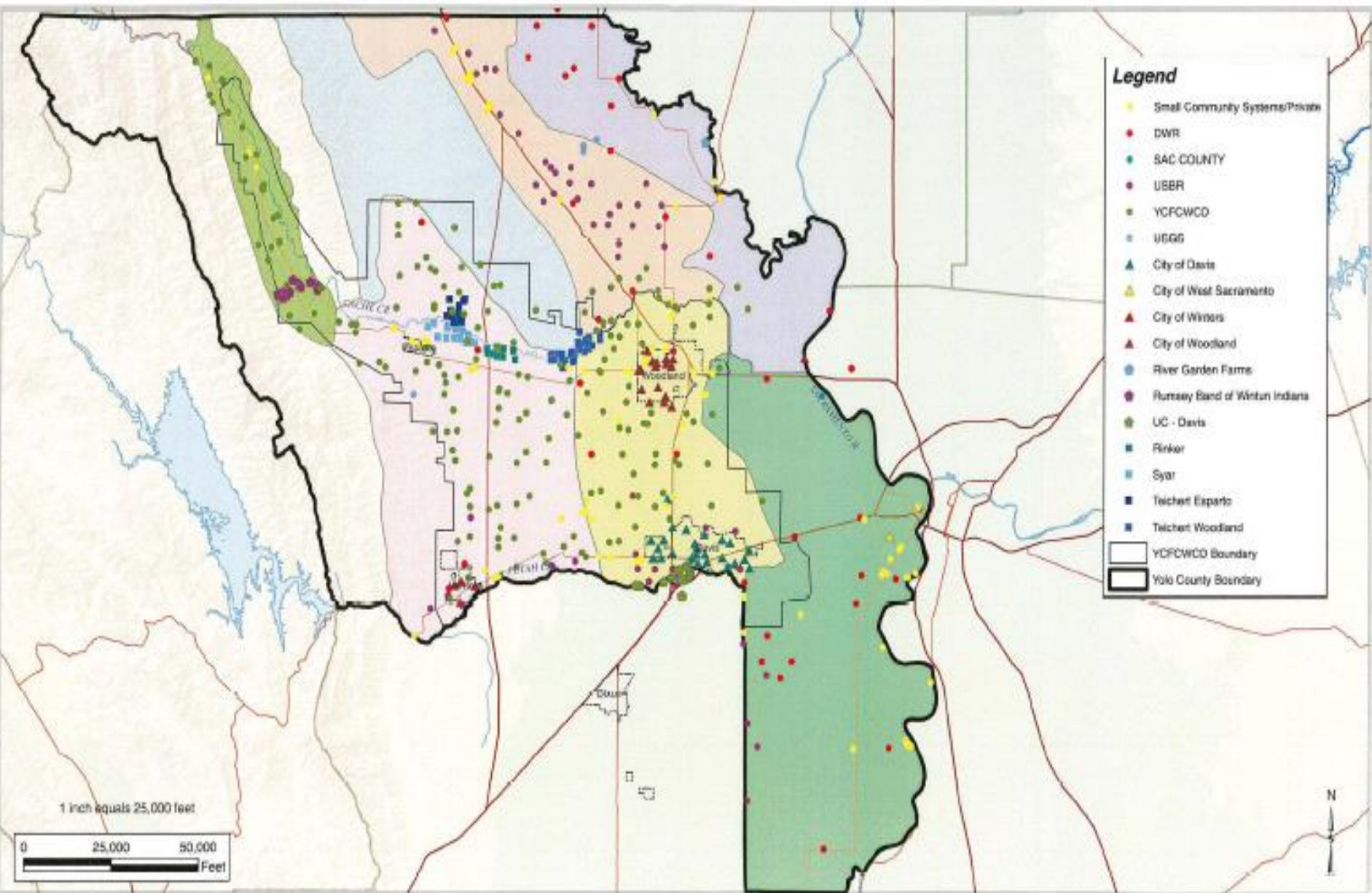


IRWMP Foundational Actions

Integrated Regional Water Management Plan

- **Groundwater Monitoring**
- **Surface Water Monitoring**
- **Subsidence Monitoring**
- **Groundwater Modeling**
- **WEAP Climate Change Model**
- **Environmental and Aquatic Habitat**
- **Topographic Mapping (LiDAR)**

- **Water Resource Information Database**
- **SCADA Network Enhancement**



Yolo County Groundwater Monitoring Program



Yolo County Water Resources Information Database

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authorized user login

username

password

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user options

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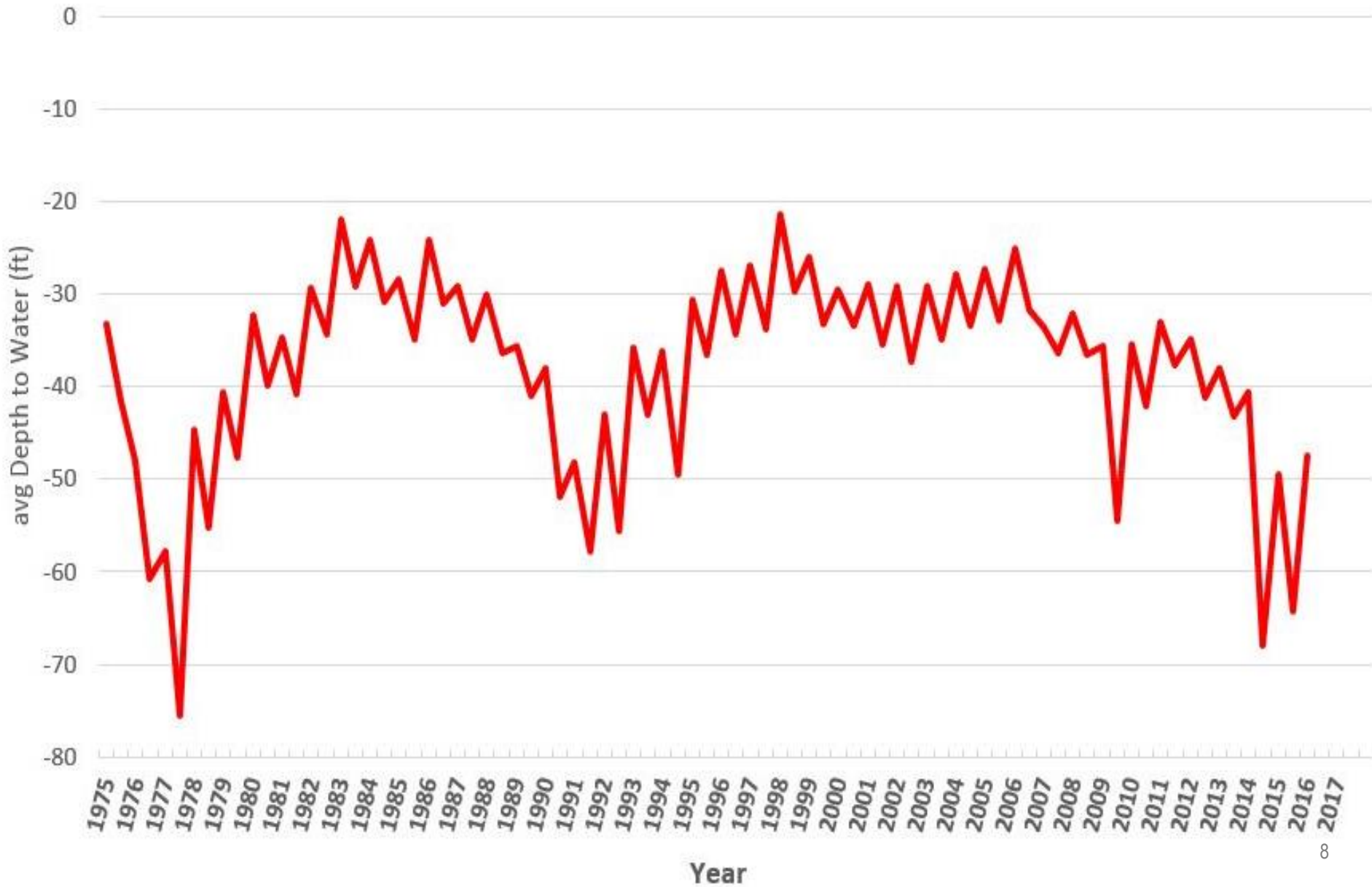


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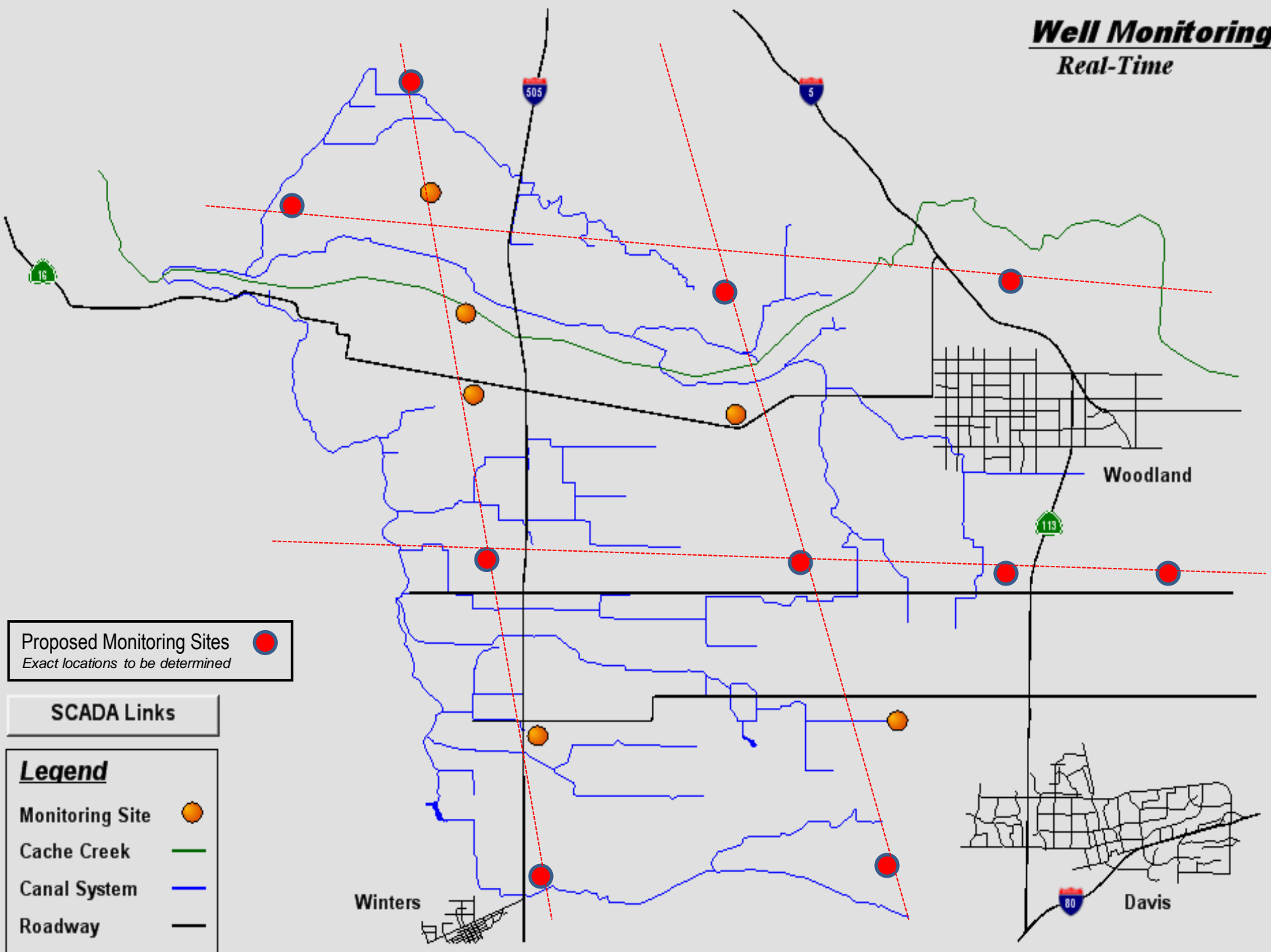
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District Average Groundwater

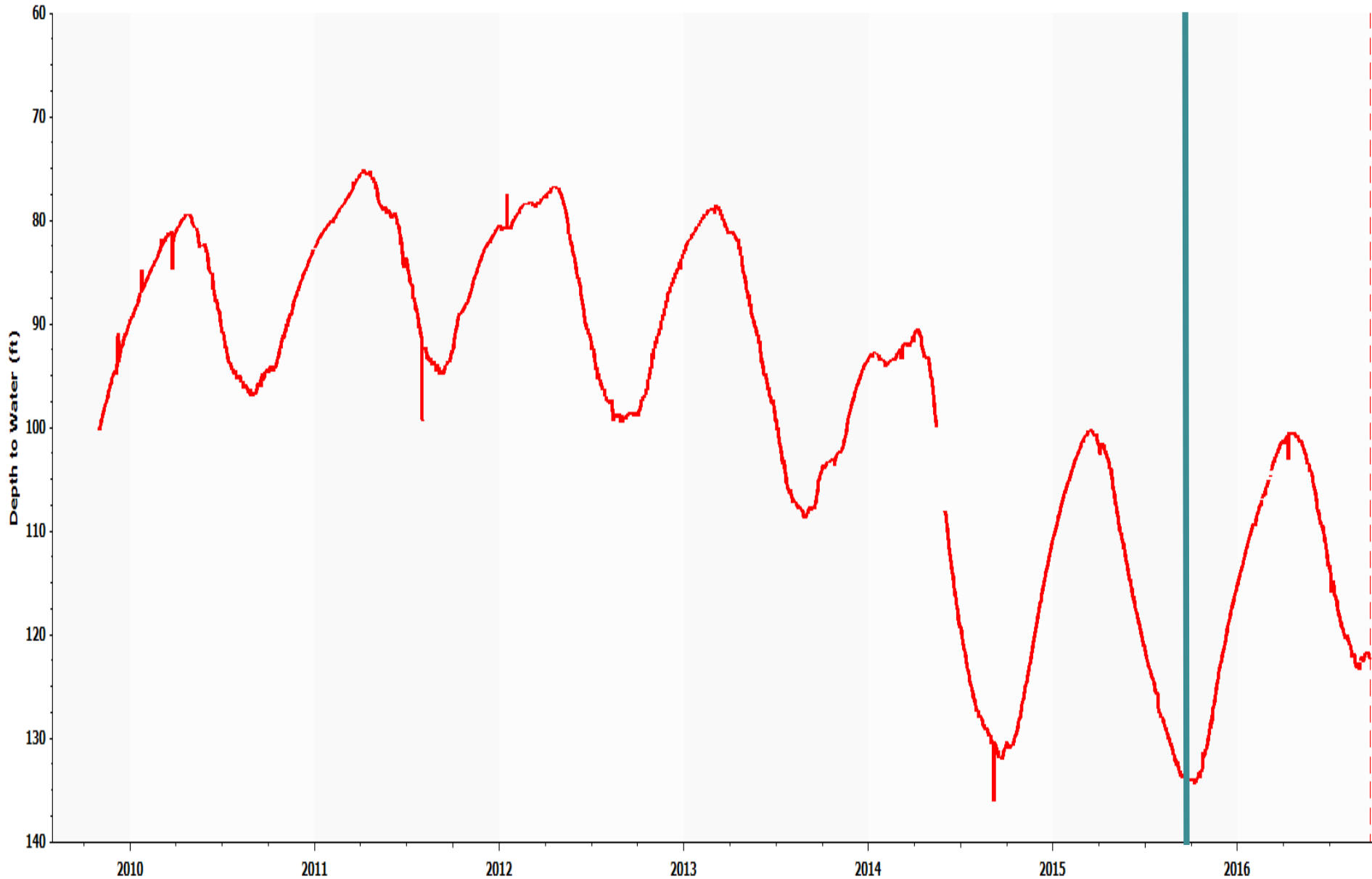
Depth by Season



Well Monitoring Real-Time



HQ Well Depth to Water



Trace	Ruler	Latest Value
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✓ HQ Well Depth to Water - Raw (Trace resample interval is smaller than scre... 9/19/2015 12:37:48.000 AM 133.59

9/19/2016 1:53:11.152 AM 121.95

Well Monitoring

Depth to Water Historical Comparison

(Daily Average DTW in feet)

SCADA Links

Select Date

Well Map

09/19/16

<u>Well Monitoring Site</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>Δ 2015 - 2016</u>
1. Headquarters Well		95.7	94.2	98.9	107.7	132.5	134.0	123.1	10.9
2. Syar Well		36.6	44.9	36.0	55.2	53.8	51.1	43.9	7.1
3. Lopez Well		48.1	39.6	45.8	52.2	83.0	78.1	61.5	16.6
4. Madison Well			32.8	34.5	39.5	60.8	57.8	49.5	8.3
5. Eoff Well			17.4	19.9	23.6	35.2	36.5	35.8	.7
6. Chickahominy Well				35.5	40.4	71.2	65.2	45.0	20.3
7. Beeman Well					17.0	43.7	50.5	26.9	23.6
8. Harlan Well					59.2	81.6	80.0	78.6	1.4
9. Teichert Well						78.4	73.6	59.3	14.3
10. RD2035-2D Well						79.5		73.3	6.2
11. RD2035-4D Well						29.2	25.4	25.5	-.1

Phases of SGMA Compliance

A. Education and Outreach: Year of Groundwater

B. Basin Boundary Adjustment

C. GSA Concept Model

- Umbrella GSA working with Management Areas

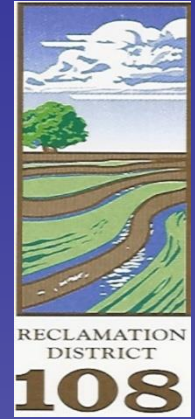
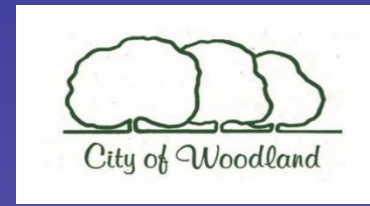
D. JPA Governance

- GSP Regulations

E. Implementation

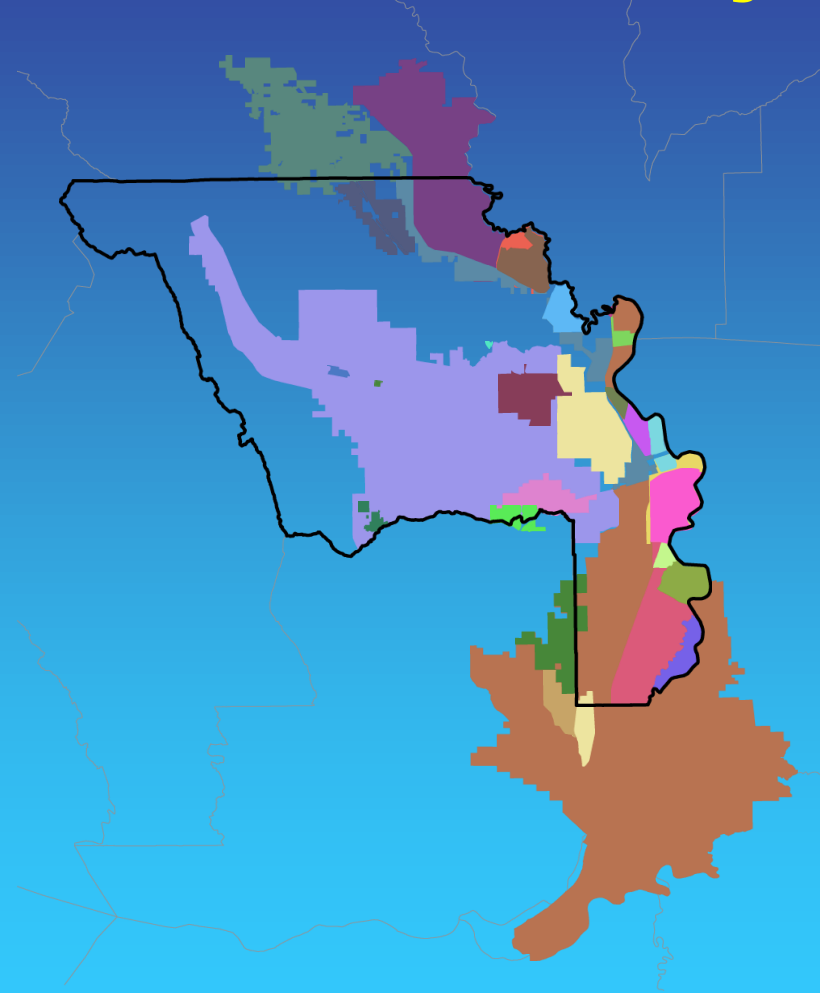


SGMA Implementation



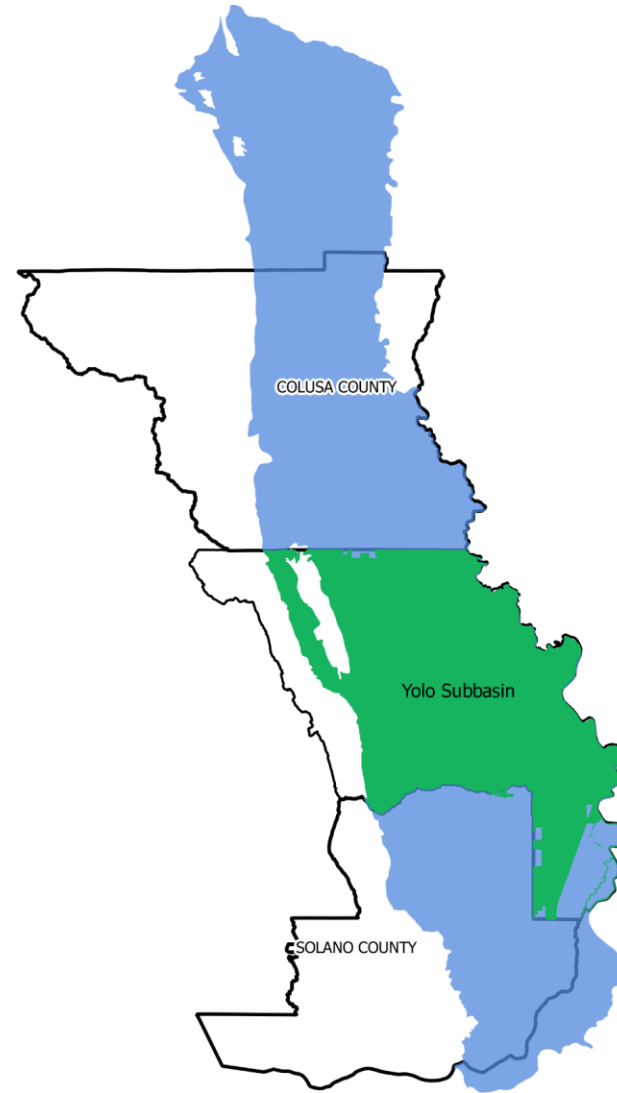
Eligible GSAs in Yolo County

Yolo County
YFCF&WCD
City of Davis
City of West Sacramento
City of Winters
City of Woodland
UC Davis
Cacheville CSD
Esparto CSD
Knights Landing CSD
Madison CSD
Dunnigan Water District
Colusa County Water District
Yocha Dehe Wintun Nation
North Delta Water Agency
RD 108
RD 150 (Merritt Island)
RD 307 (Lisbon Island)
RD 537 (Lovdal District)
RD 730 (Knights Landing)
RD 765 (Glide District)
RD 785 (Driver District)
RD 787 (Fair Ranch/River Garden Farms)
RD 827 (Elkhorn)
RD 900 (West Sacramento)
RD 999 (Netherlands)
RD 1600 (Mull District)
RD 2035 (Conaway Ranch)
RD 2068 (Yolano)
RD 2093 (Liberty Island)
Colusa Basin Drainage District
Knights Landing Ridge Drainage District
Woodland-Davis Clean Water Agency



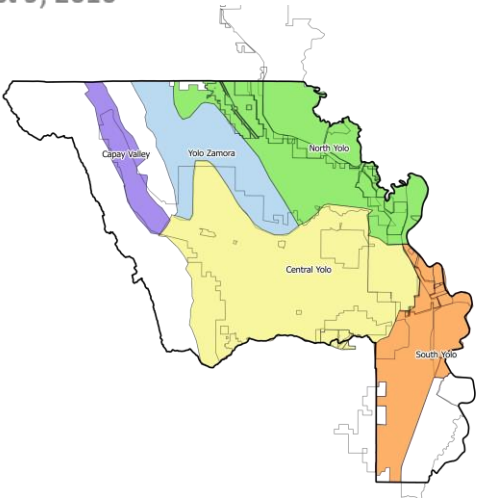


Existing B118 Basin Boundaries



Proposed Yolo Subbasin submitted to DWR 3/31/16

Draft – For internal discussion purposes only
 August 9, 2016

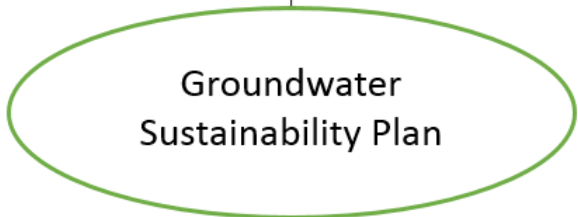
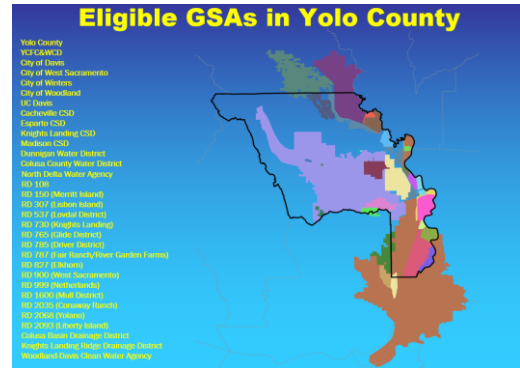


Yolo GSA

~26 Eligible Entities

Limited Authority

- For regional planning & reporting
- JPA bylaws define authorities & responsibilities
 - Define responsibilities of MAs



Management Areas provide maximum local authority while following consistent rules set by GSA

Capay Valley

YFCF&WCD
 Yocha Dehe Wintun Nation
 Yolo County

North Yolo

Dunnigan WD
 California American Water
 RDs 108, 730, 787, and 1600
 Cacheville and Knights Landing CSDs
 Yolo County

Central Yolo

Cities of Davis, Woodland & Winters
 UC Davis
 YFCF&WCD
 RD 2035
 Esparto and Madison CSDs
 Yolo County

Yolo Zamora

YFCF&WCD
 Yolo County
 (White area)

South Yolo

City of West Sacramento
 RDs 537, 765, 785, 827, and 900
 North Delta Water Agency
 Yolo County
 (White area)

Advisory Committee
 Public

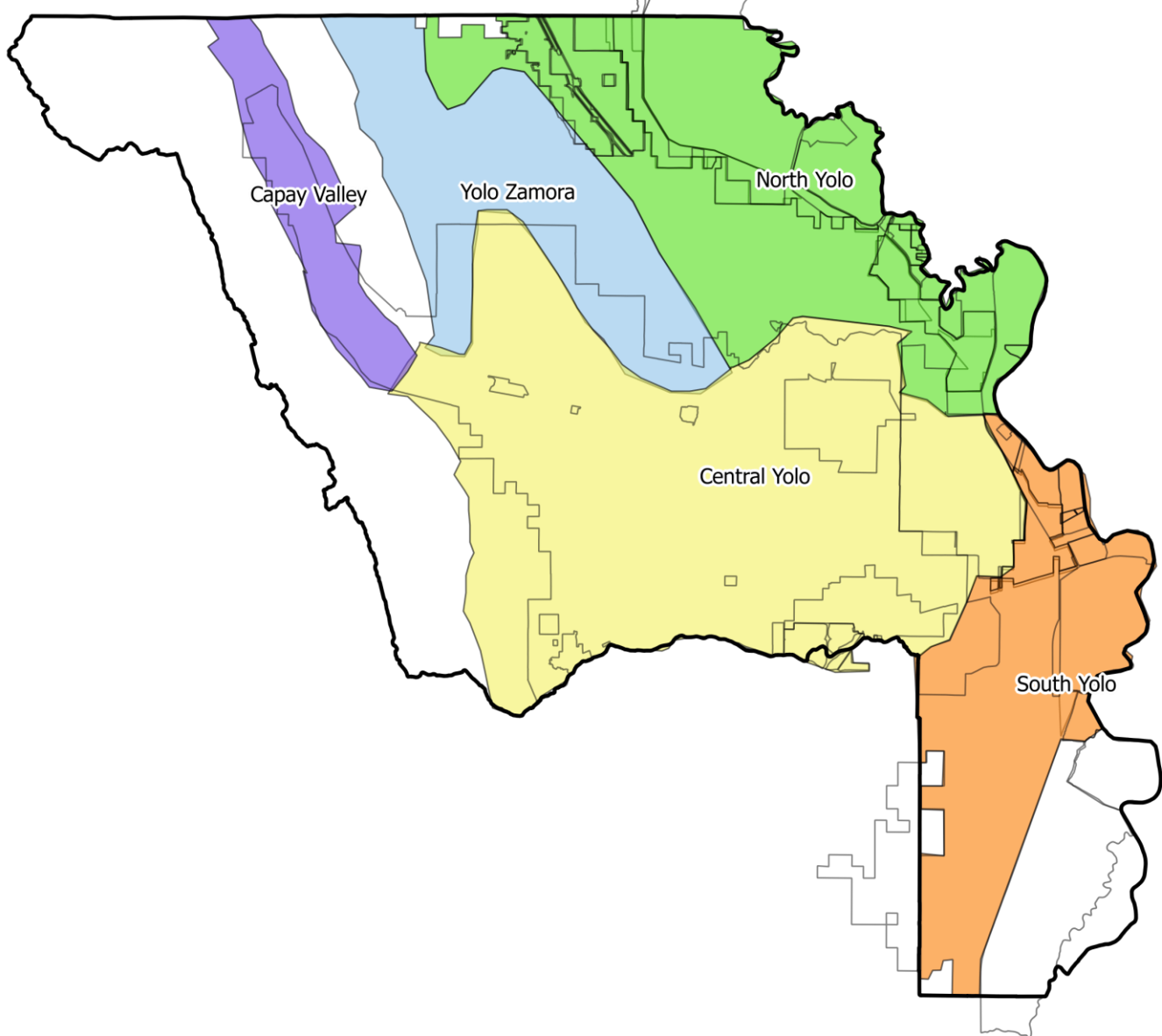
Advisory Committee
 Public

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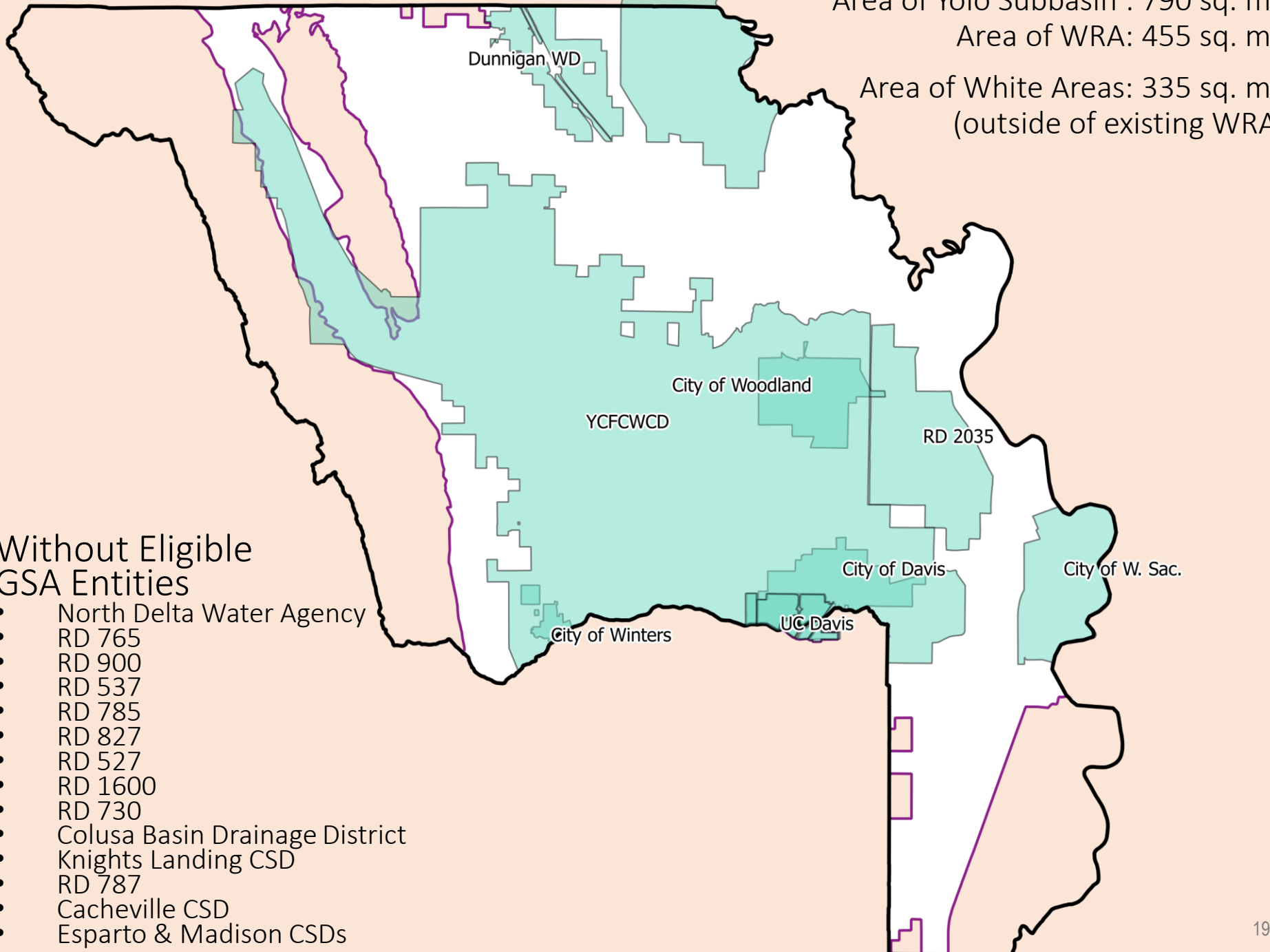
Advisory Committee
 Public

Advisory Committee
 Public

Draft Management Areas



Area of Yolo Subbasin : 790 sq. mi.
Area of WRA: 455 sq. mi.
Area of White Areas: 335 sq. mi.
(outside of existing WRA)



Without Eligible GSA Entities

- North Delta Water Agency
- RD 765
- RD 900
- RD 537
- RD 785
- RD 827
- RD 527
- RD 1600
- RD 730
- Colusa Basin Drainage District
- Knights Landing CSD
- RD 787
- Cacheville CSD
- Esparto & Madison CSDs

Undesirable Results



Chronic lowering of groundwater levels indicating a significant and unreasonable depletion of supply



Significant and unreasonable reduction of groundwater storage



Significant and unreasonable seawater intrusion



Significant and unreasonable degraded water quality



Significant and unreasonable land subsidence



Surface water depletions that have significant and unreasonable adverse impacts on beneficial uses of the surface water



**WATER
IN**

**WATER
OUT**

Thank You

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