

Sustainable Groundwater Management Act Implementation in Yolo County

Water Education Foundation Groundwater Tour

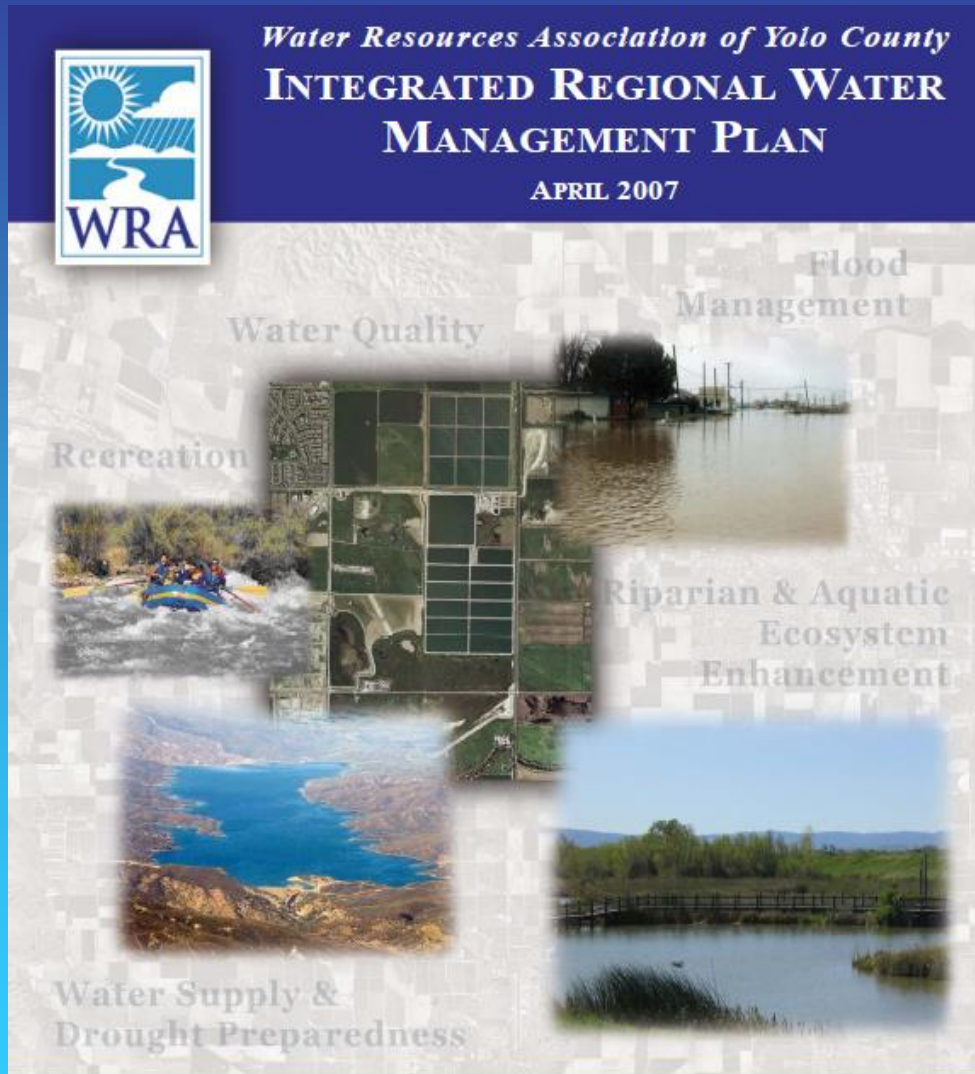
Tim O'Halloran
WWW.YCFCWCD.ORG
February 8, 2019

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**

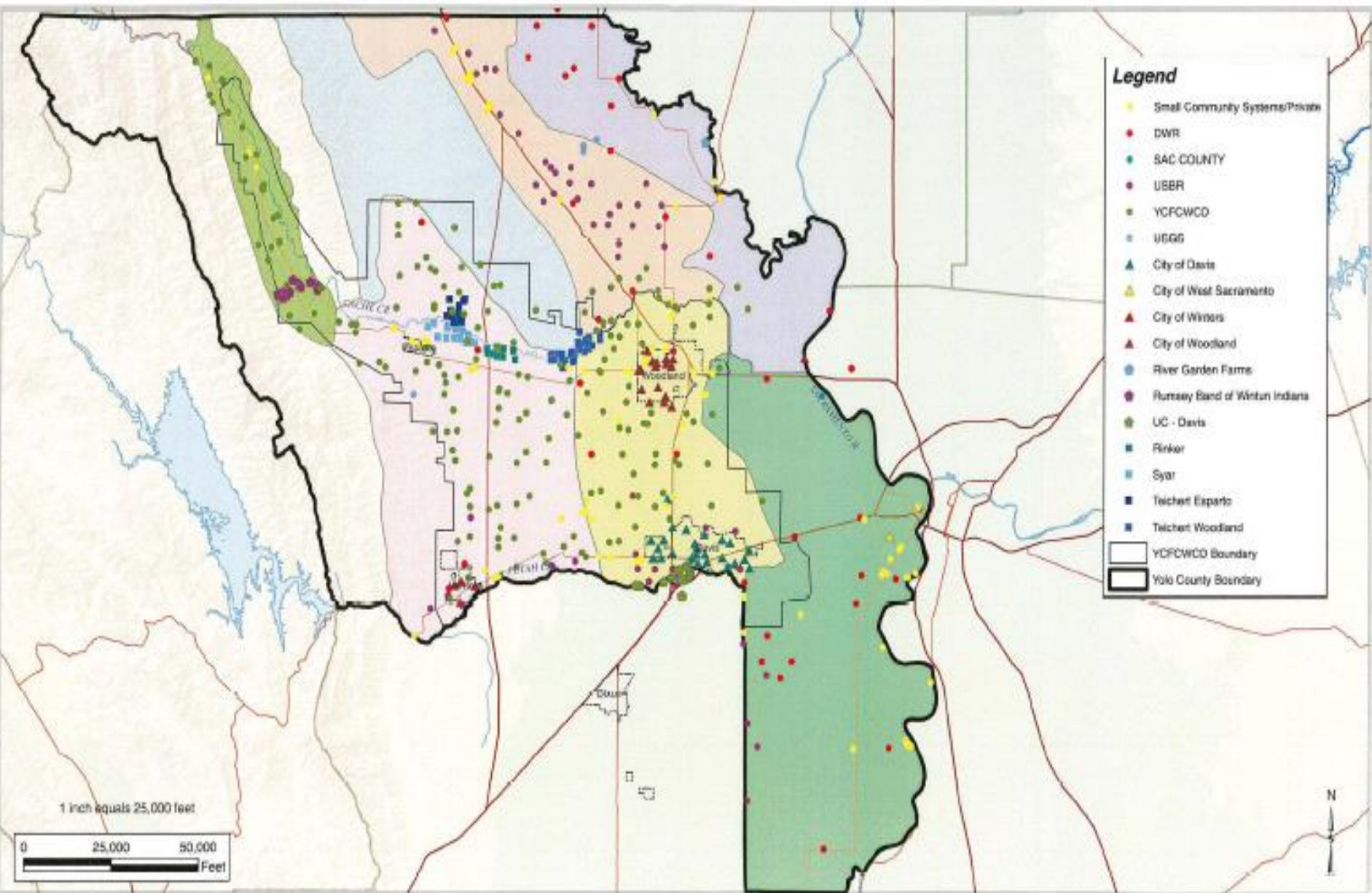


IRWMP Foundational Actions

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

[register](#) : [lost password](#) : [plugin](#) : [downloads](#)

authorized user login

username

password



user options

- [Register New Account](#)
- [Lost Password Recovery](#)
- [MapGuide Plugin Download](#)
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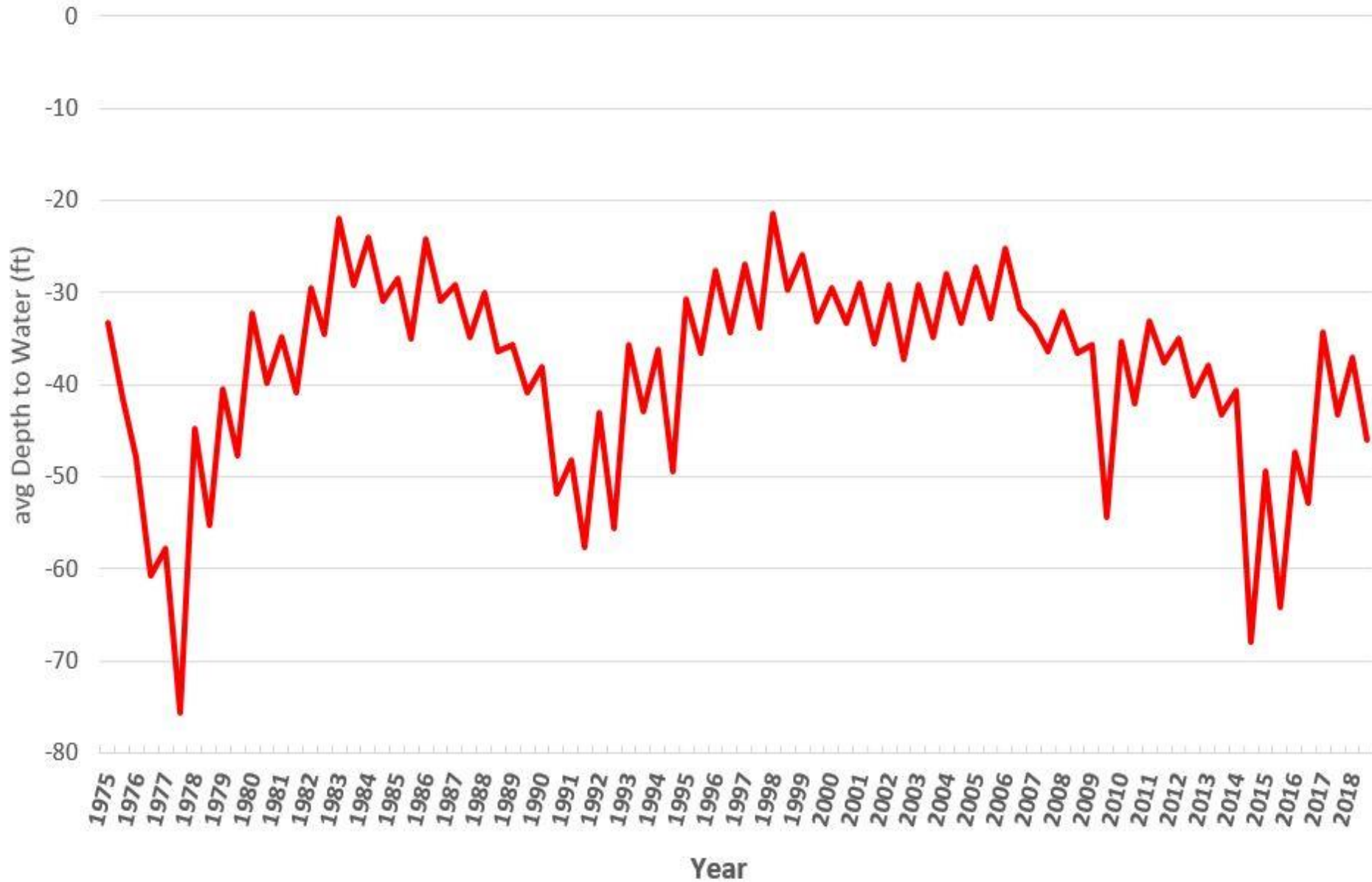


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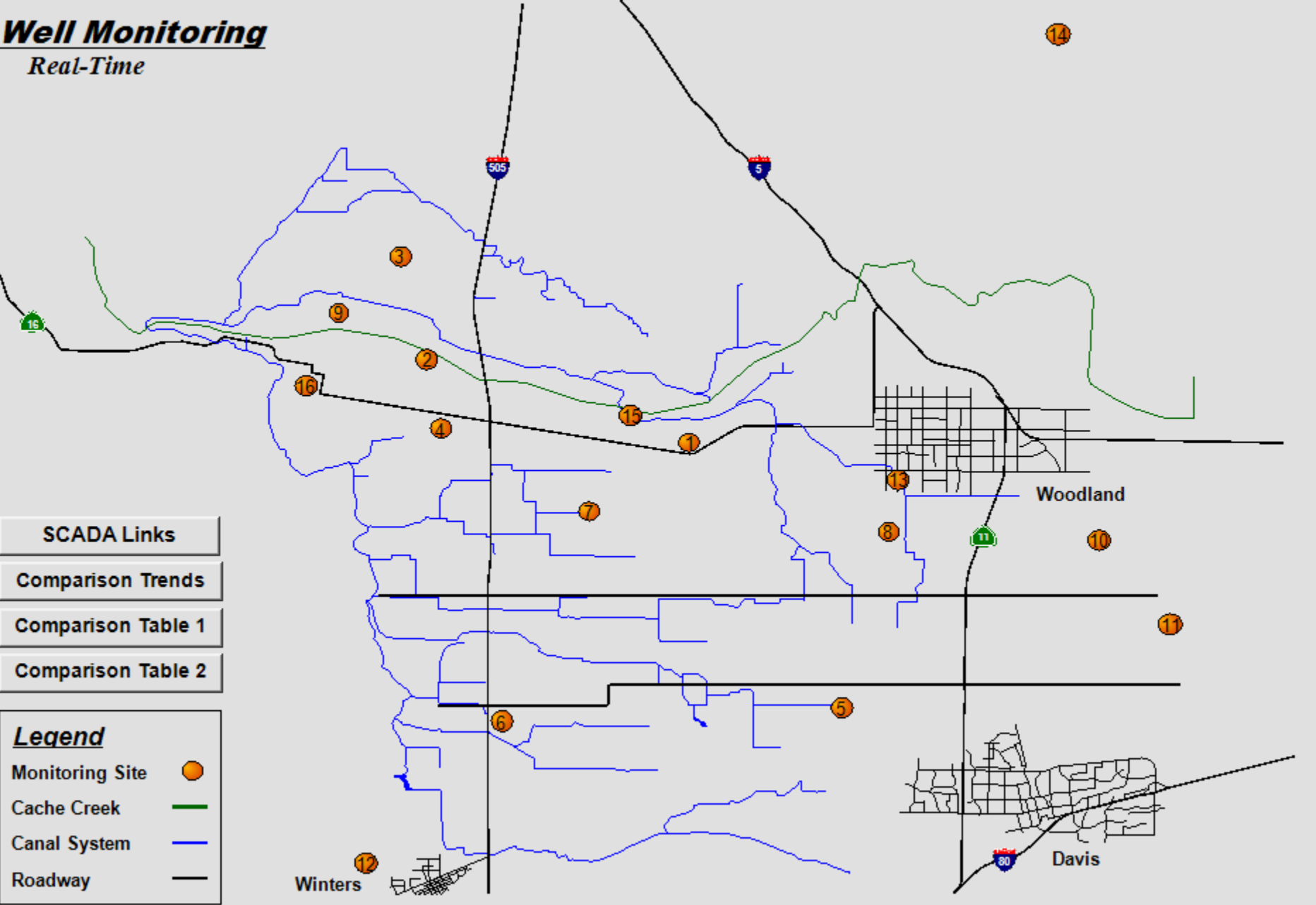
YCFCWCD Average Groundwater

Depth by Season (fall 2018 is 117 wells)



Well Monitoring

Real-Time

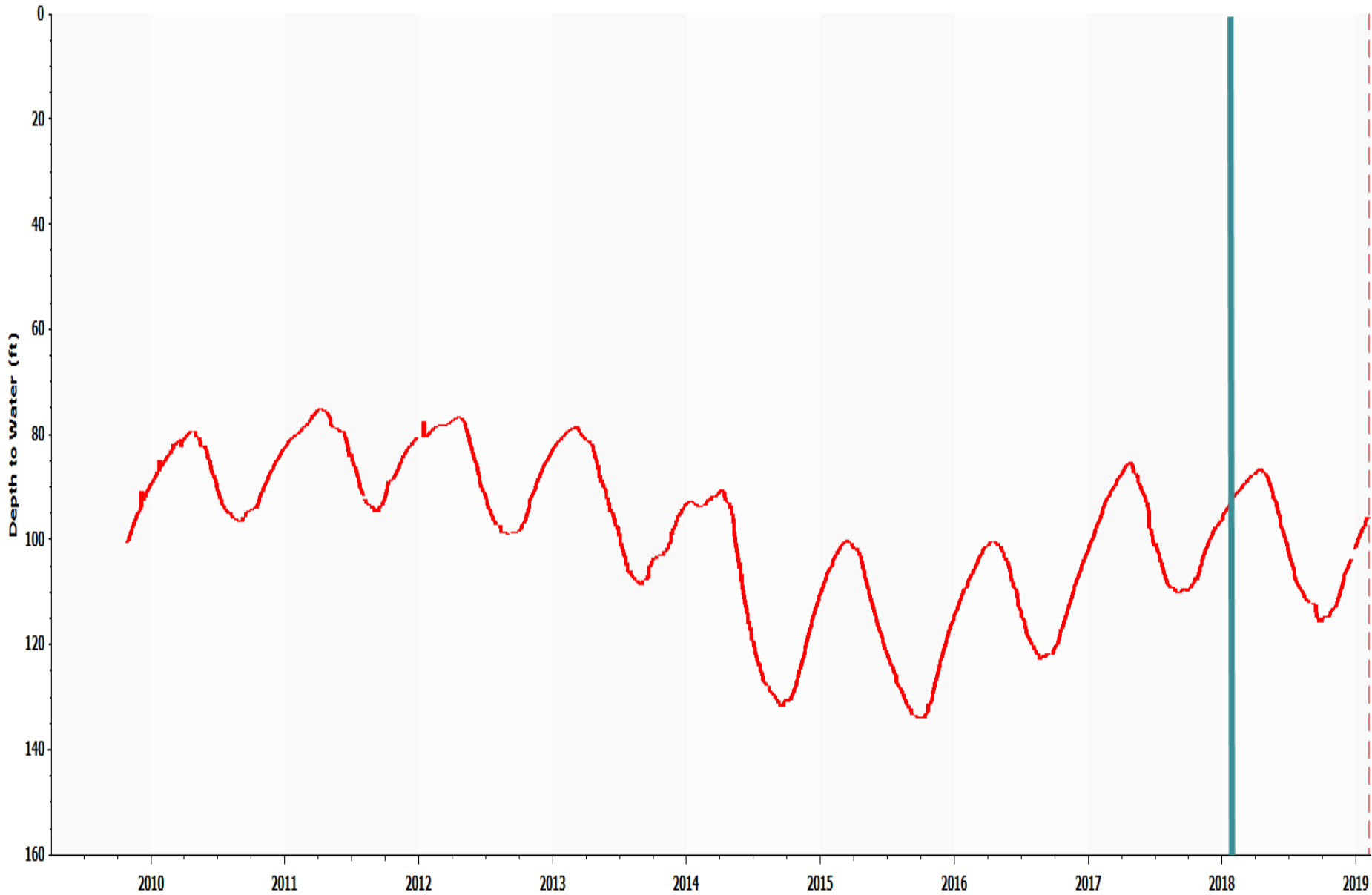


- SCADA Links
- Comparison Trends
- Comparison Table 1
- Comparison Table 2

Legend

- Monitoring Site
- Cache Creek
- Canal System
- Roadway

1. HQ Well Depth to Water



Trace	Ruler	Latest Value
<input checked="" type="checkbox"/> HQ Well Depth to Water - Raw (Missing <Annot> elements)	-	2/3/2019 12:56:32.562 PM 95.65

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

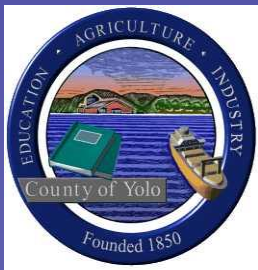
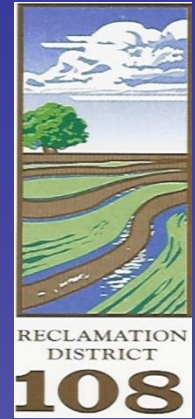
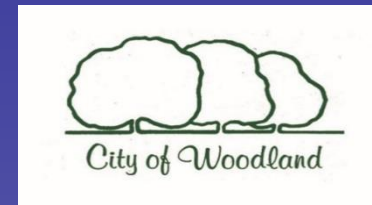
D. JPA Governance

- GSP Regulations

E. Implementation

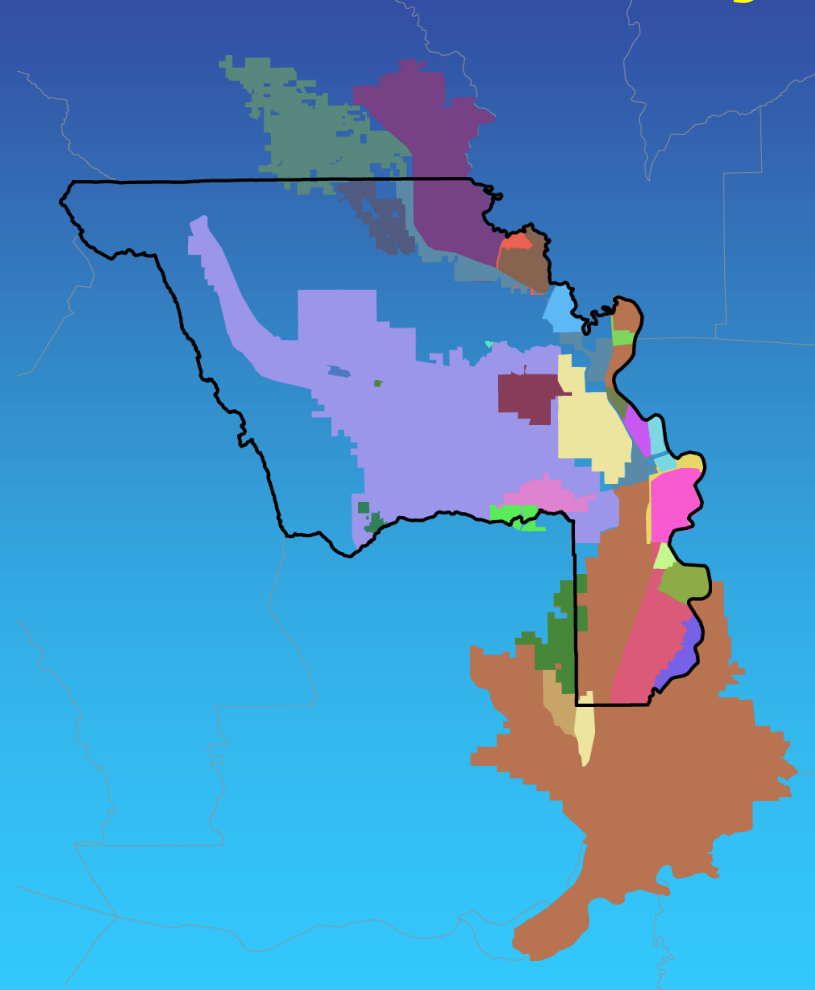


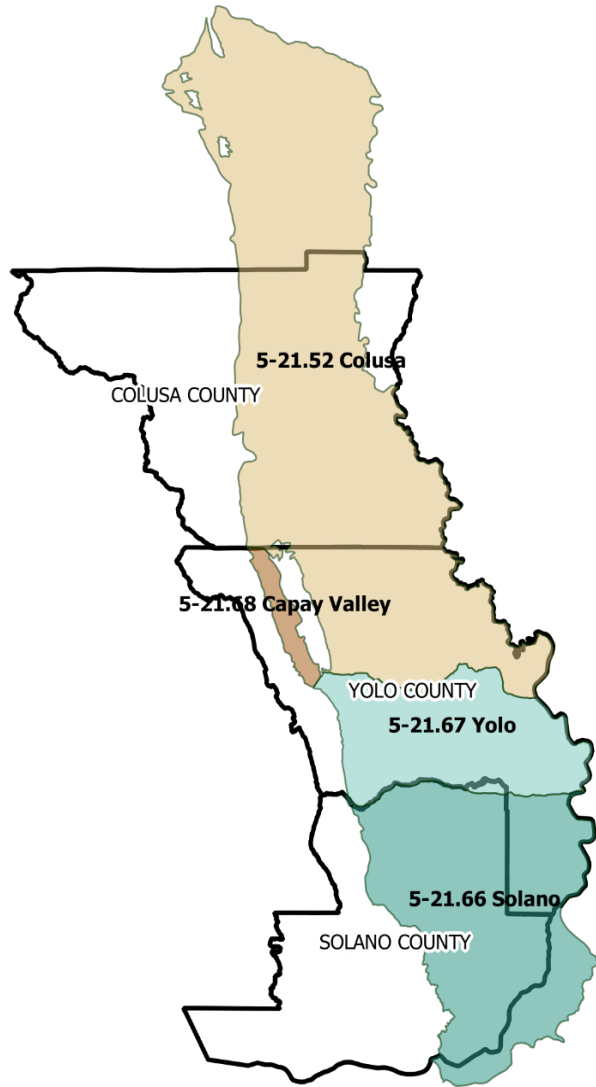
SGMA Implementation



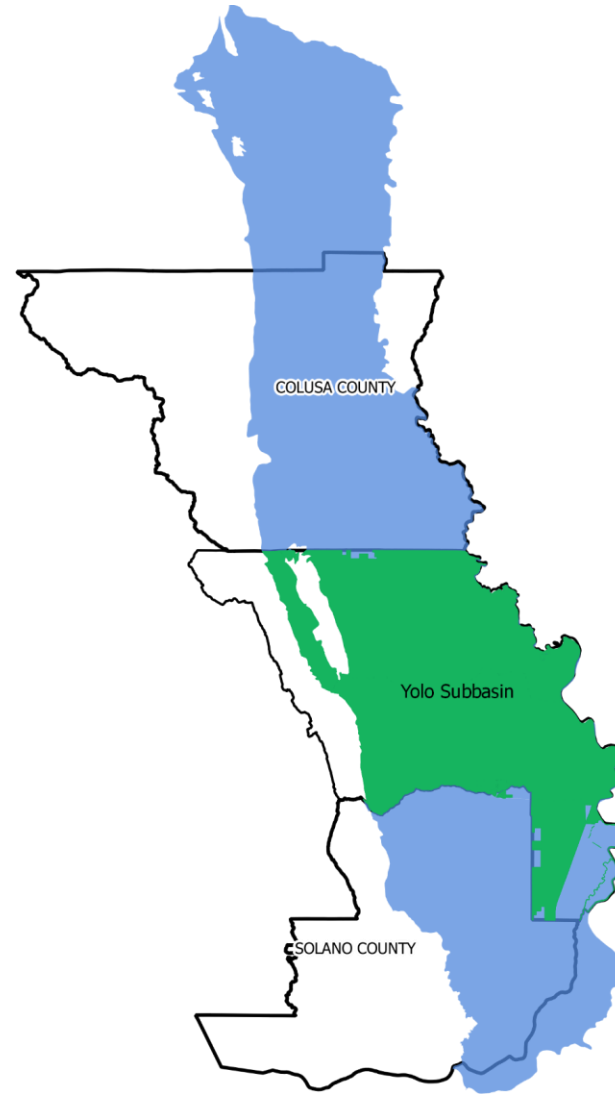
Eligible GSAs in Yolo County

- Yolo County
- YCFC&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



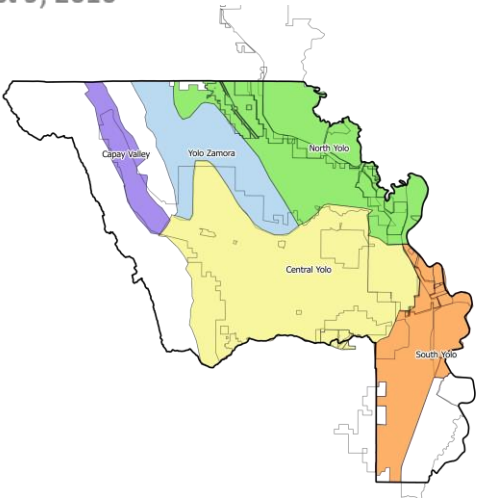


Existing B118 Basin Boundaries



Proposed Yolo Subbasin submitted to DWR 3/31/16

Draft – For internal discussion purposes only
August 9, 2016

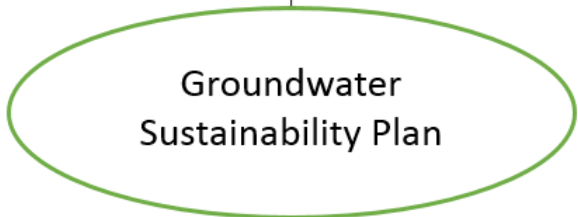
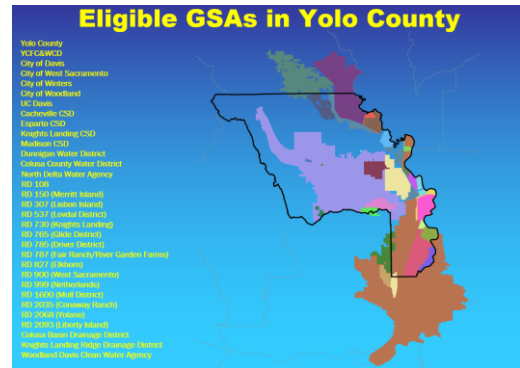


Yolo GSA

~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 Winton 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

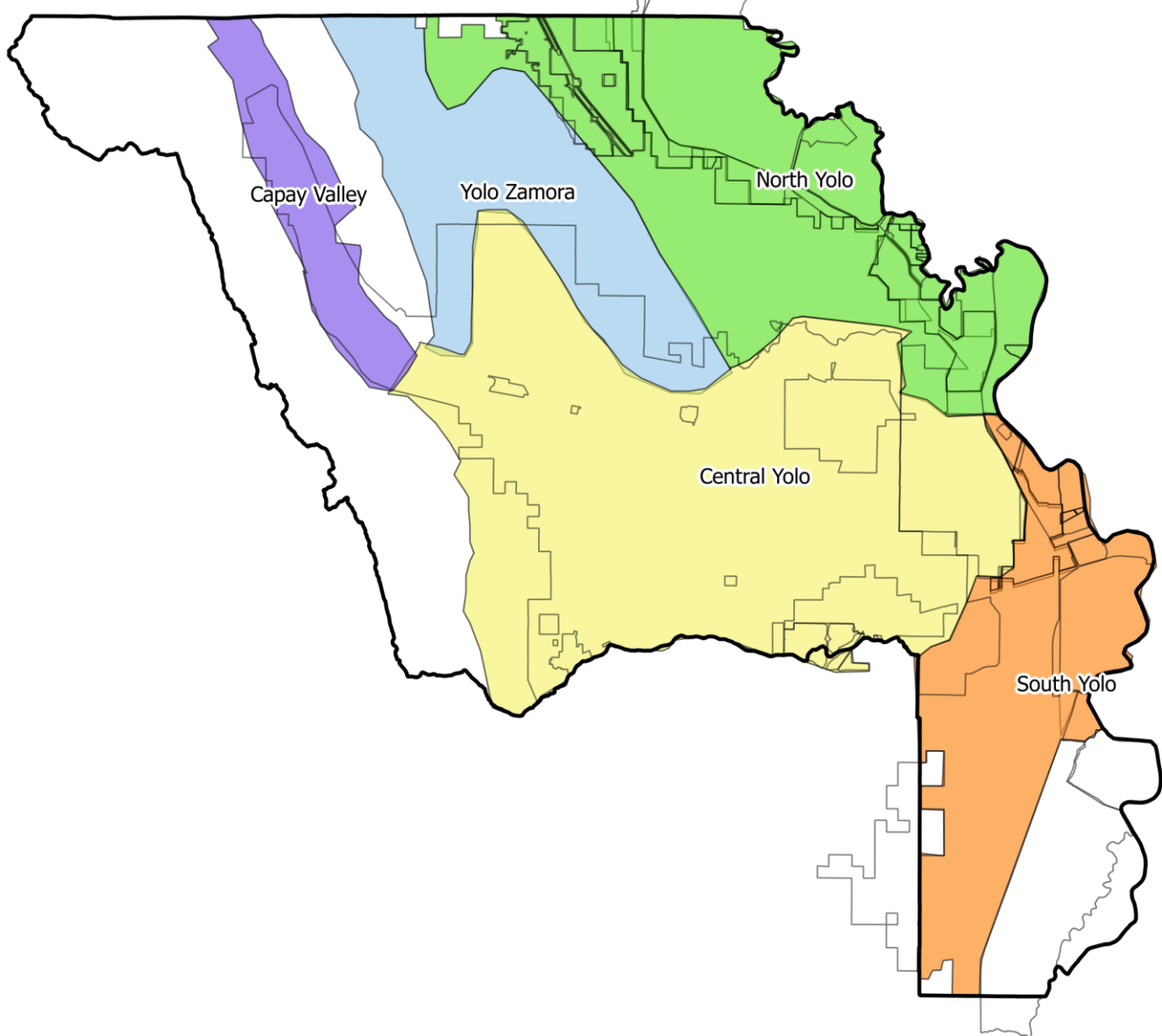
Advisory Committee
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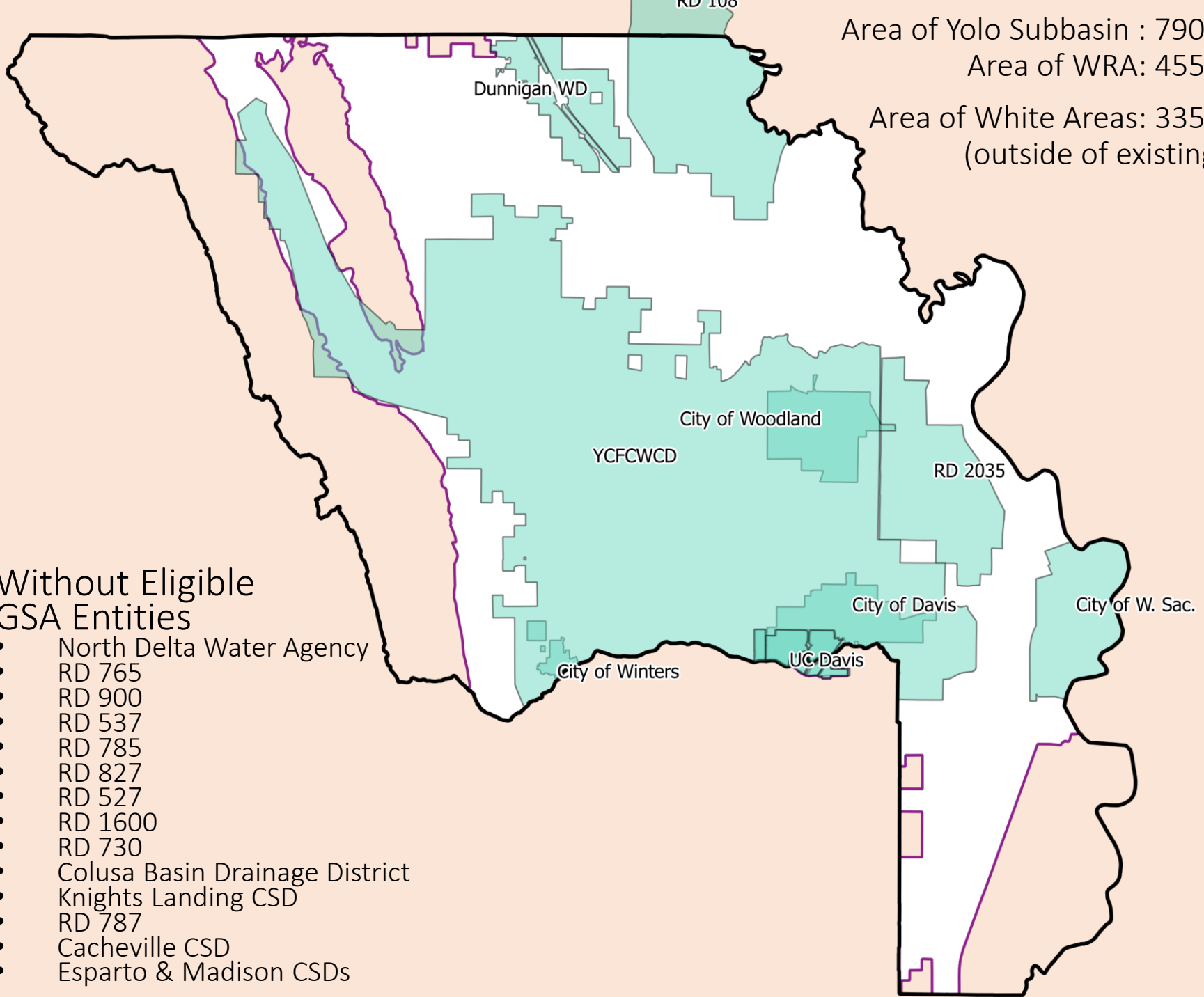
Advisory Committee
Public

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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