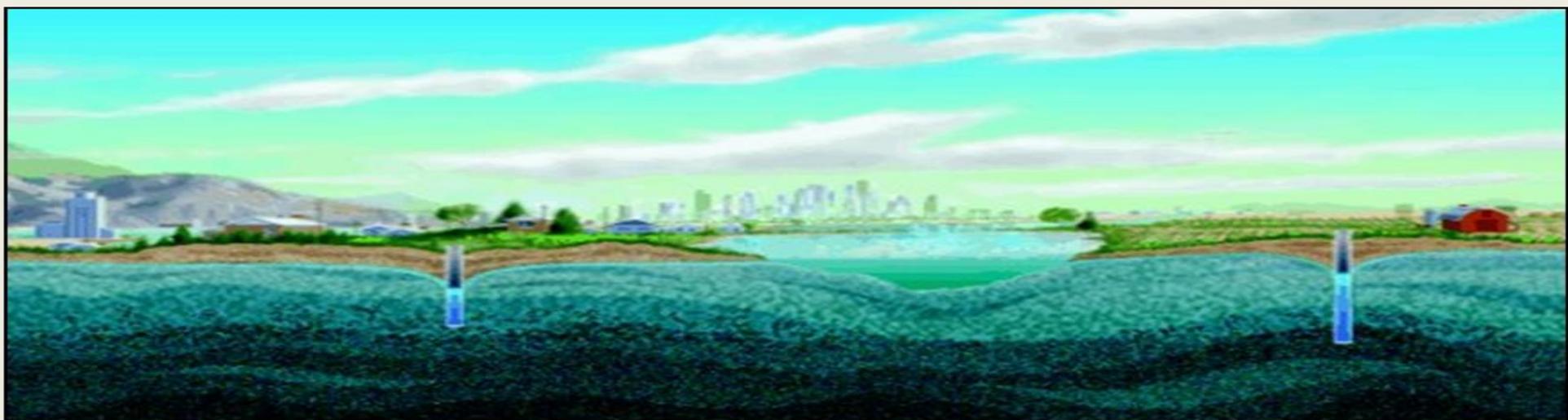




2016 Draft Approved Basin Boundary Modifications

California Water Commission Meeting

July 2016





Presentation Overview

- Introductions and SGMA Context
- DWR Role and Authority
- Brief Summary of 2016 Basin Modification Submission Period
- Overview of Statewide Requests and Results
- Approved Regional Boundary Modifications
- Clarifying Questions Period
- Official Comment Period

Overall Regulatory Approach

“A central feature of these bills is the recognition that groundwater management in California is best accomplished locally.”

Governor Jerry Brown, September 2014



Public
Engagement

Local Agencies
Plan Development
Plan Implementation

Department of Water Resources
Plan Evaluation
Statewide Minimum Standards
Technical & Financial Assistance

**Sustainable
Groundwater
Management**

DWR's SGMA Responsibilities and Due Dates



- ✓ **Initial Basin Prioritization: §10723.4**
 - Completed by January 31, 2015
- ✓ **Regulations for Modifying Groundwater Basin Boundaries: §10722.2**
 - Completed by January 1, 2016
- ✓ **Identification of Critically Overdrafted Basins: §12924**
 - Completed January 2016
- ✓ **Groundwater Sustainability Plan and Alternatives Regulations: §10733.2**
 - Due June 1, 2016
- **Water Available for Replenishment: §10729(c)**
 - Due January 1, 2017
- **Best Management Practices: §10729(d)**
 - Due January 1, 2017
- **Bulletin 118: §12924**
 - Interim Update due January 2017; Comprehensive Update due 2020
- **Groundwater Sustainability Agency Formation: §10723**
 - Due by June 30, 2017



DWR Role and Authority

- Existing Authority to define groundwater basins in the state (§12924)
 - Established Bulletin 118 documenting groundwater basins and resources of the state
 - Last Update Bulletin 118, 2003
 - Previous Releases – 1975, 1980
 - Numerous Region Specific Bulletin-118 Reports
- Review Local Agency Basin Boundary Modification Request
 - Local Agency Modification Requests
 - Basin Boundary Regulations - Effective November 2015

2016 Basin Boundary Modification Request Submission Period

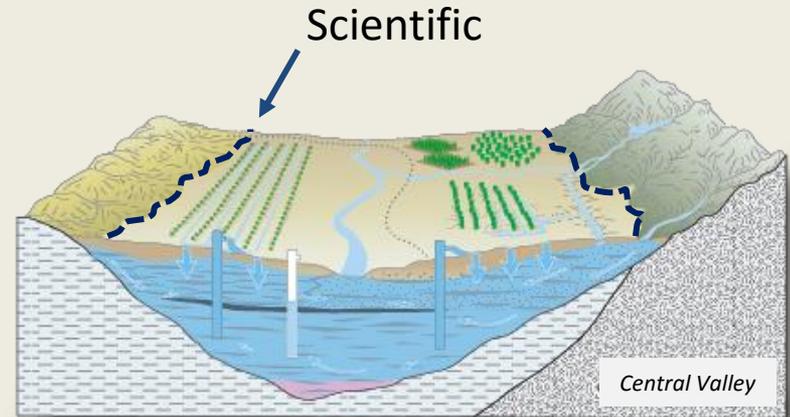


- **Administrative Edits** - Focused on line work clean up and gross geologic errors
 - National Hydrologic Dataset for water ways
 - Existing County jurisdictions
 - California Geological Survey 1:250K Statewide maps (BBAT)
- **Basin Boundary Modification Requests**
 - Performed under the New Basin Boundary Regulations
 - Basin Boundary Modification Request System (BBMRS) contains all technical information and review comments

Key Definitions

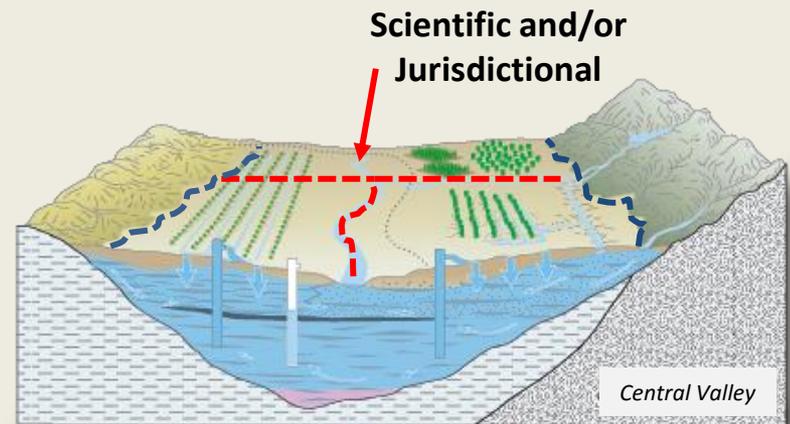
➤ SGMA Definitions

➤ **Groundwater Basin** – An alluvial aquifer or a stacked series of alluvial aquifers with reasonably well-defined boundaries in a lateral direction and having a definable bottom



Modified from Faunt, 2009

➤ **Groundwater Subbasin** – A subbasin is created by dividing a groundwater basin into smaller units using geologic and hydrologic barriers or institutional boundaries



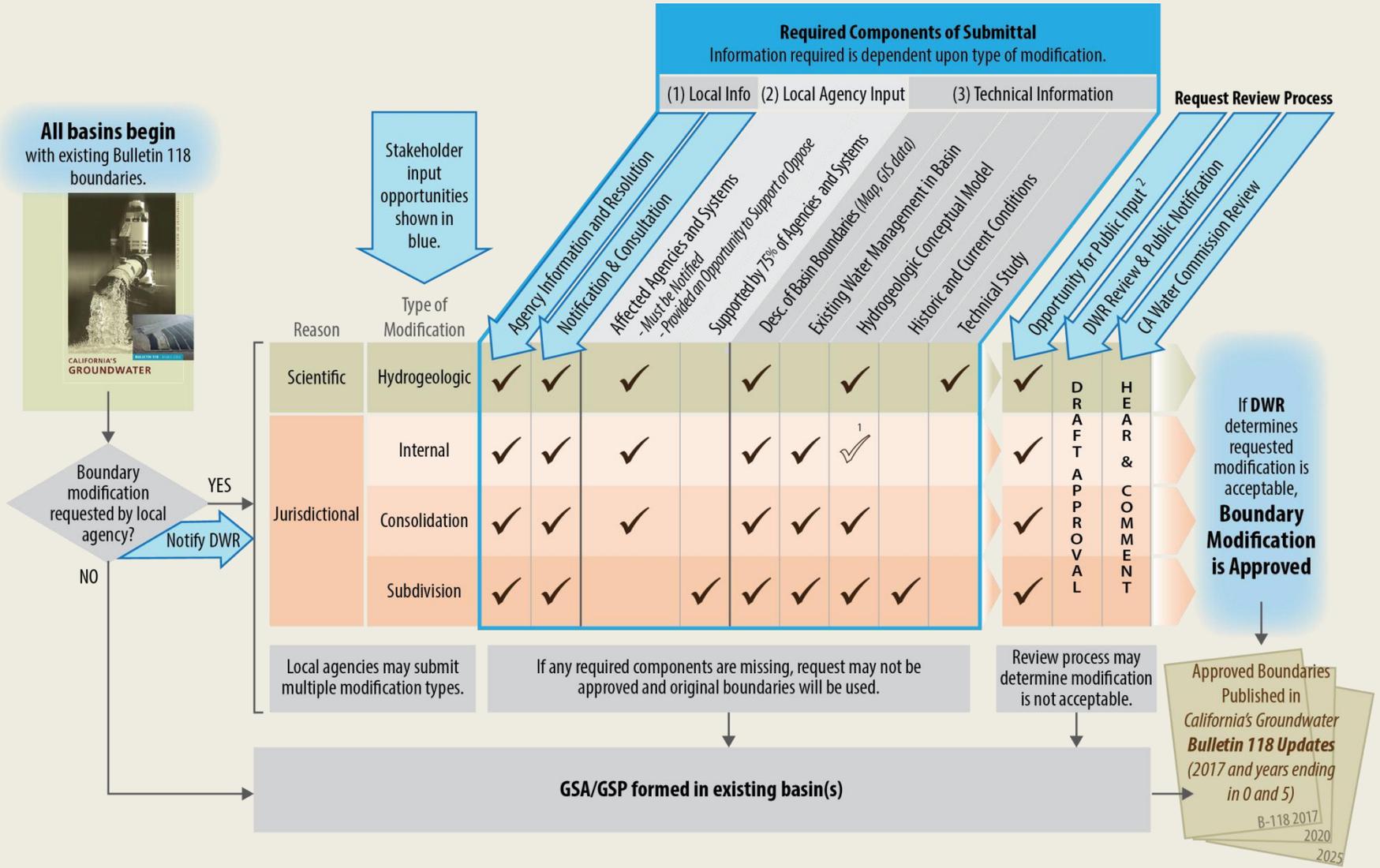
Modified from Faunt, 2009



SGMA General Criteria

1. ...likelihood that the **proposed basin can be sustainably managed,**
2. ...whether the proposed basin **would limit the sustainable management of adjacent basins,**
and
3. ...whether there is a **history of sustainable management of groundwater levels** in the proposed basin.

Regulation Framework



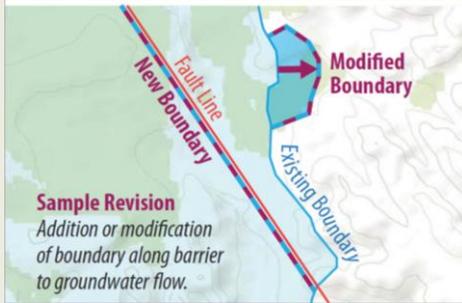
Types of Modification

Article 3

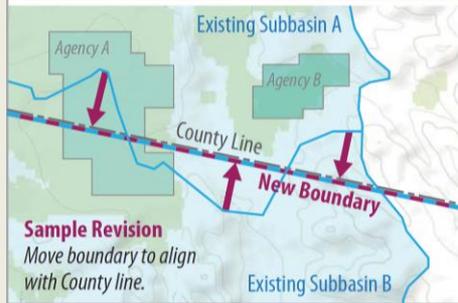
Scientific

Jurisdictional

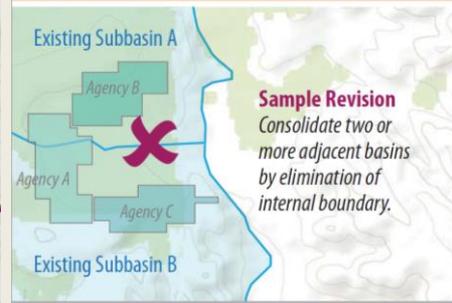
Scientific



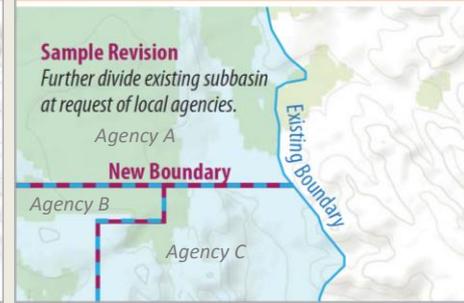
Internal (Jurisdictional)



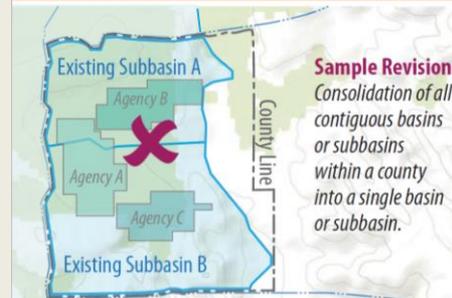
Consolidation (Jurisdictional)



Subdivision (Jurisdictional)



County Consolidation (Jurisdictional)



DWR Tools for Basin Boundary Modification

1. DWR Basin Boundary Modification Website (Informational)

http://www.water.ca.gov/groundwater/sgm/basin_boundaries.cfm

2. DWR Basin Boundary Assessment Tool (Technical)

<https://gis.water.ca.gov/app/bbat/>

SGM Sustainable Groundwater Management

Basin Boundary Modifications

The Sustainable Groundwater Management Act (SGMA) established a process for **local agencies** to request that the Department of Water Resources (DWR) revise the boundaries of existing groundwater basins or subbasins, including the establishment of a new subbasin. The **Basin Boundary Emergency Regulation** was developed through an extensive **stakeholder outreach process** and was adopted on October 21, 2015. The provisions of the emergency regulation go into effect on November 16, 2015.

Planning to request a modification to basin boundaries?

If you are an eligible local agency and are thinking of requesting modification to the boundaries of your basin, follow these steps:

1. Review the Basin Boundary Modification **Regulations**.
2. Submit **Initial Notification** within 15 days of exploring a modification – notification is preliminary and is intended to signal that a modification request **may** occur. It serves to notify other local agencies, public, and the department. Use **Basin Boundary Assessment Tool** to explore geology and other boundaries.
3. Determine appropriate required documents and actions to comply with regulations for modification request submission. See the **Basin Boundary Modification Resources** for examples and supporting information.
4. **Submit Basin Boundary Modification Request** – Submission period is open from January 1, 2016 through March 31, 2016.

How to Submit Basin Boundary Modification Requests

DWR has developed a **Basin Boundary Modification Request System** for use by local agencies to submit initial notification and basin boundary modification requests. The system also provides public access to view basin boundary modification information.

Important Note - One of the first steps in the basin boundary modification process is initial notification of a potential basin boundary modification. This process is described in Section 343.9 of the regulation and on the **Basin Boundary Modification Request System**.

When to Submit Basin Boundary Modification Requests

Groundwater Basin Boundary Assessment Tool

DWR Boundary Assessment | **Boundary References** | Geology References

Boundary References

- County Boundaries
- Region Office Service Areas
- Hydrologic Regions
- Prop 1 Funding Areas
- Regional Water Quality Control Board Boundaries
- Tribal Lands
- Military Installations, Ranges, and Training Areas
- CDFW Lands
- Regional Flood Planning Boundaries
- Reclamation Districts
- CASGEM Designated Monitoring Entities as of 10-19-15
- CASGEM Groundwater Basin Prioritization
- Groundwater Management Plans
- IRWM Regions
- Disadvantaged Community Block Groups
- Disadvantaged Community Tracts
- Disadvantaged Community Places
- Water Agencies
- Bulletin 118 Groundwater Basins
- Watersheds

Boundary References

Click on features in the map or see below for more information:

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All information provided by the Department of Water Resources on its Web pages and Internet sites, is made available to provide immediate access for the convenience of interested persons. While the Department believes the information to be reliable, human or mechanical error remains a possibility. Therefore, the Department does not guarantee the accuracy, completeness, timeliness or correct sequencing of the information. Neither the Department of Water Resources nor any of the sources of information shall be responsible for any errors or omissions, or for the use or results obtained from the use of this information.

Below are brief descriptions to the layers contained in the map:

County Boundaries This layer depicts the boundaries of California's Counties as developed by CAL FIRE.

Region Office Service Areas This layer depicts the coverage Area of DWR's Region Offices. [More Info.](#)

Hydrologic Regions This layer depicts the 10 areas representing the major California watersheds and is used by a variety of DWR programs including the CA Water Plan. [More Info.](#)

Prop 1 Funding Areas This layer depicts the 12 funding areas called out in Proposition 1. [More Info.](#)

Regional Water Quality Control Board Boundaries This layer depicts the boundaries of the 9 Regional Water Quality Control Boards. [More Info.](#)

Tribal Lands This layer depicts Tribal Lands in the State of California. This layer includes: Historical location of Indian Land which was once held in Trust for a Terminated Tribe and/or the location of a landless Federally Recognized Tribe; Indian Land currently held in Trust by the United States Government; Indian Land currently held in Trust by the United States Government and known as a Public Domain Allotment; Indian Land currently held in Trust by the United States Government but resides in the Nevada or Arizona Jurisdiction. [More Info.](#)

Military Installations, Ranges, and Training Areas This layer depicts major Military installations, ranges, and training areas in California. [More Info.](#)



BBMRS

- Initial Notification
 - Inform Local Agencies, Public and DWR
 - Opened in November 2015
- Request Submission Period
 - Jan 1 through March 31
 - Submit required information to support request
 - Allowed for local agency and public input
 - Specific 30-day public Input period following Completeness Review

CA.GOV Department of Water Resources
Basin Boundary Modification Request System

Welcome to the Basin Boundary Modification Request System. The Sustainable Groundwater Management Act (SGMA) established a process for local agencies to request that the Department of Water Resources (DWR) revise the boundaries of a groundwater basin or subbasin, including the establishment of a new subbasin. This tool is for use by local agencies to request basin boundary modifications and for the public to access basin boundary modification information.

Registration and login are required to submit a basin boundary modification request, but are not required to view submitted information.

The system accepts voluntary basin boundary modification requests from local agencies, pursuant to DWR's Basin Boundary emergency regulation. Additional information is available about the existing Bulletin 118 groundwater basins and an interactive map is available to help visualize the Bulletin 118 groundwater basins and other relevant political, geologic, and geographic boundaries.

- Prior to performing a modification request, a printable template is available here to inform you of the items needed to complete the request.
- Upon submission, you will receive an email acknowledging receipt of your initial notification or modification request.
- For assistance with the Basin Boundary Modification System, please email the administrator at Timothy.Godwin@water.ca.gov.

Local Agency Submissions Tools

Click Here to Submit Initial Notification
(Pursuant to Section 343.9)

Click Here to Submit Basin Boundary Modification Request
(Submission Period:
January 1, 2016 through March 31, 2016)

Public and Interested Party Tools

View List of Submitted Initial Notifications

View List of Submitted Modification Requests

View Map of Submitted Initial Notifications

View Map of Submitted Modification Requests

If you are interested in being informed when Basin Boundary Modifications related Actions or any other SGM Program actions are made, please subscribe to email listserv here: <http://www.water.ca.gov/groundwater/sgm/subscribe.cfm>

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Request Technical Review

- DWR Technical Review of supporting information, public input, and responses
 - Technical Studies
 - Local Agency Support
 - Communications
 - Comments
- Recommendation Reviews
 - Region-wide
 - State-wide
 - Executive



Summary of Requests and Results

Region	Number of Requests	Approved	Approved, as modified	Denied	Incomplete
NRO	3	2	0	1	0
NCRO	8	4	2	2	0
SCRO	22	8	9	5	0
SRO	21	6	8	4	3
Statewide	54	20	19	12	3
		37%	35%	22%	6%

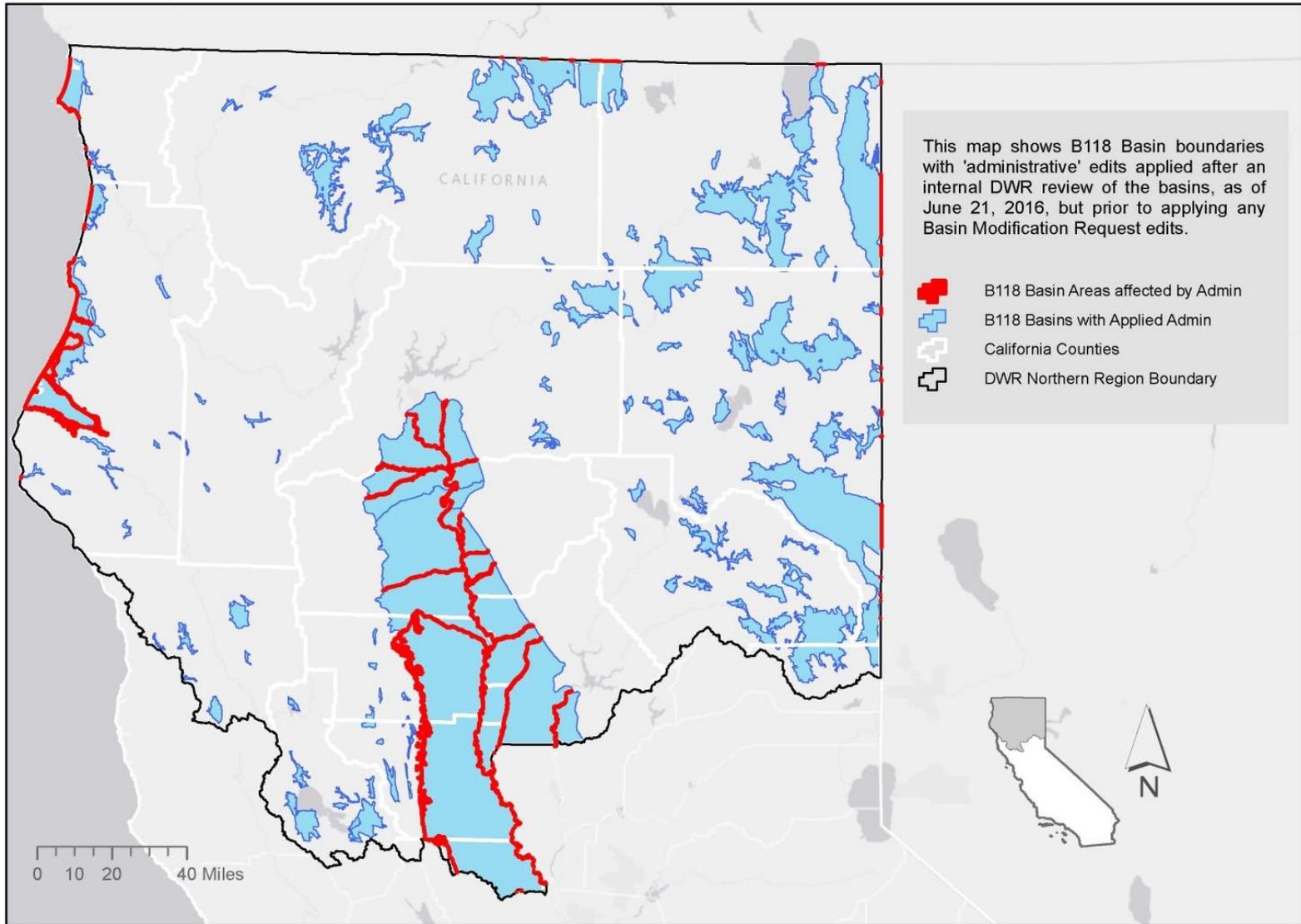
Modification Type	Number of Requests Received and (Accepted)				
	Statewide	NRO	NCRO	SCRO	SRO
Scientific - Internal	7(3)	--	--	3(1)	4(2)
Scientific External	14(10)	2(1)	1(1)	3(1)	8(7)
Jurisdictional - Internal	19(16)	--	4(3)	12(12)	3(1)
Jurisdictional - Consolidation	1(1)	1(1)	--	--	--
Jurisdictional - Subdivision	4(1)	--	1(0)	2(1)	1(0)
Combination	8(7)	--	1(1)	2(2)	5(4)
Other	1(1)		1(1)		

Modification Type	Total	Accepted	Rejected
Scientific	39%	62%	38%
Jurisdictional	46%	72%	28%
Combination	15%	88%	13%



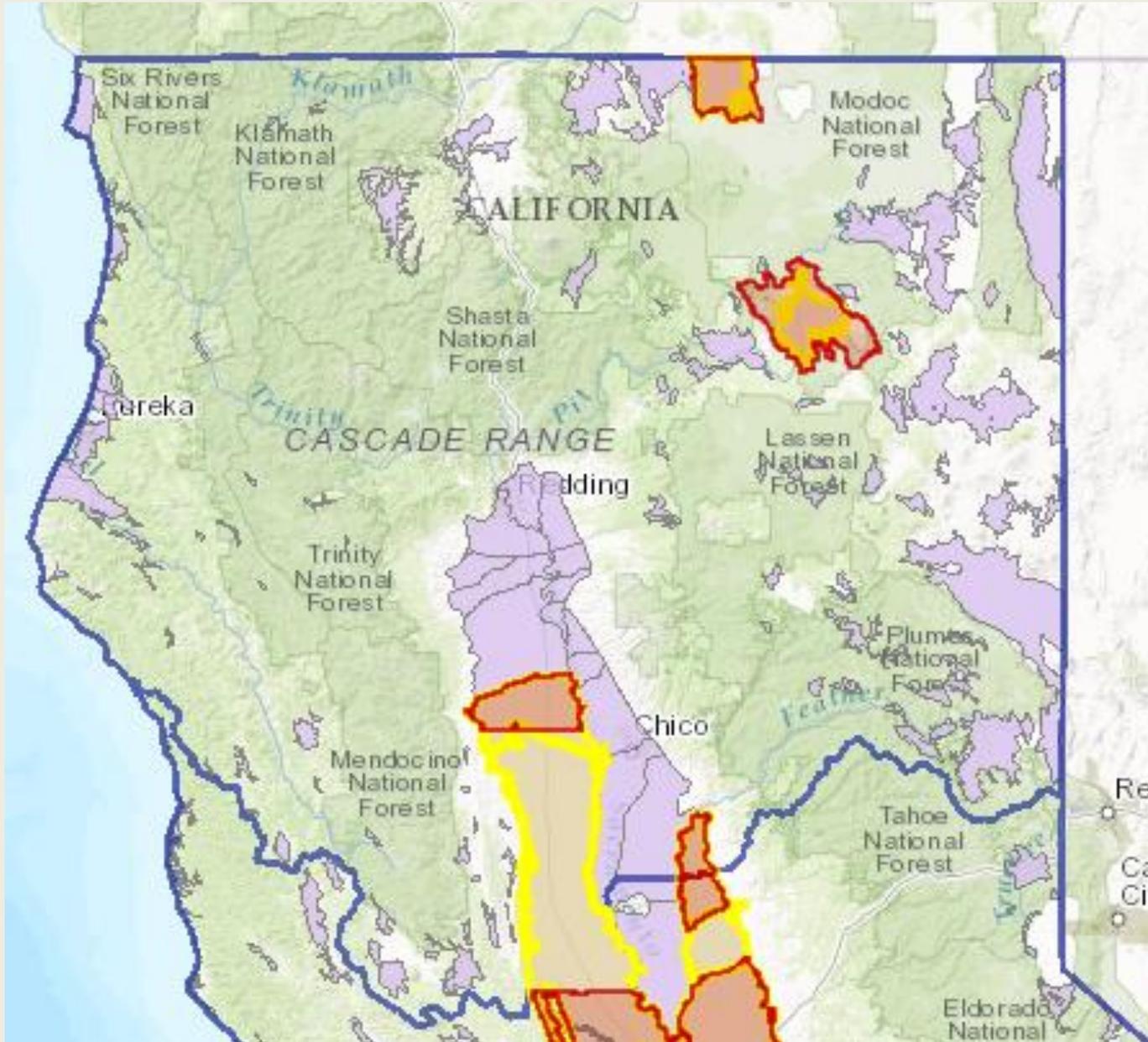
Northern Region

- Boundary Modifications
- Public Meeting Comments

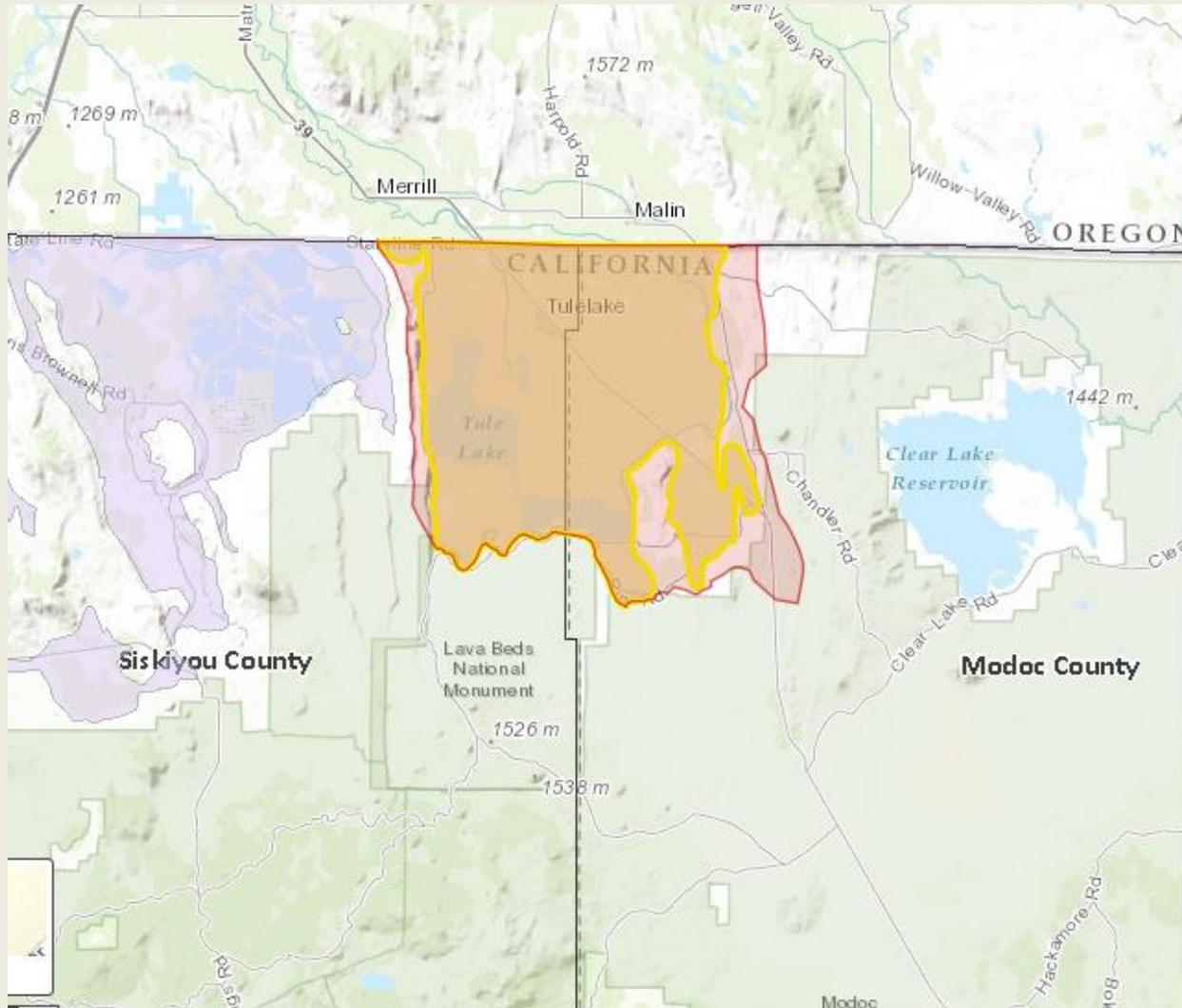


DWR Northern Region - B118 Basins and Changed Areas

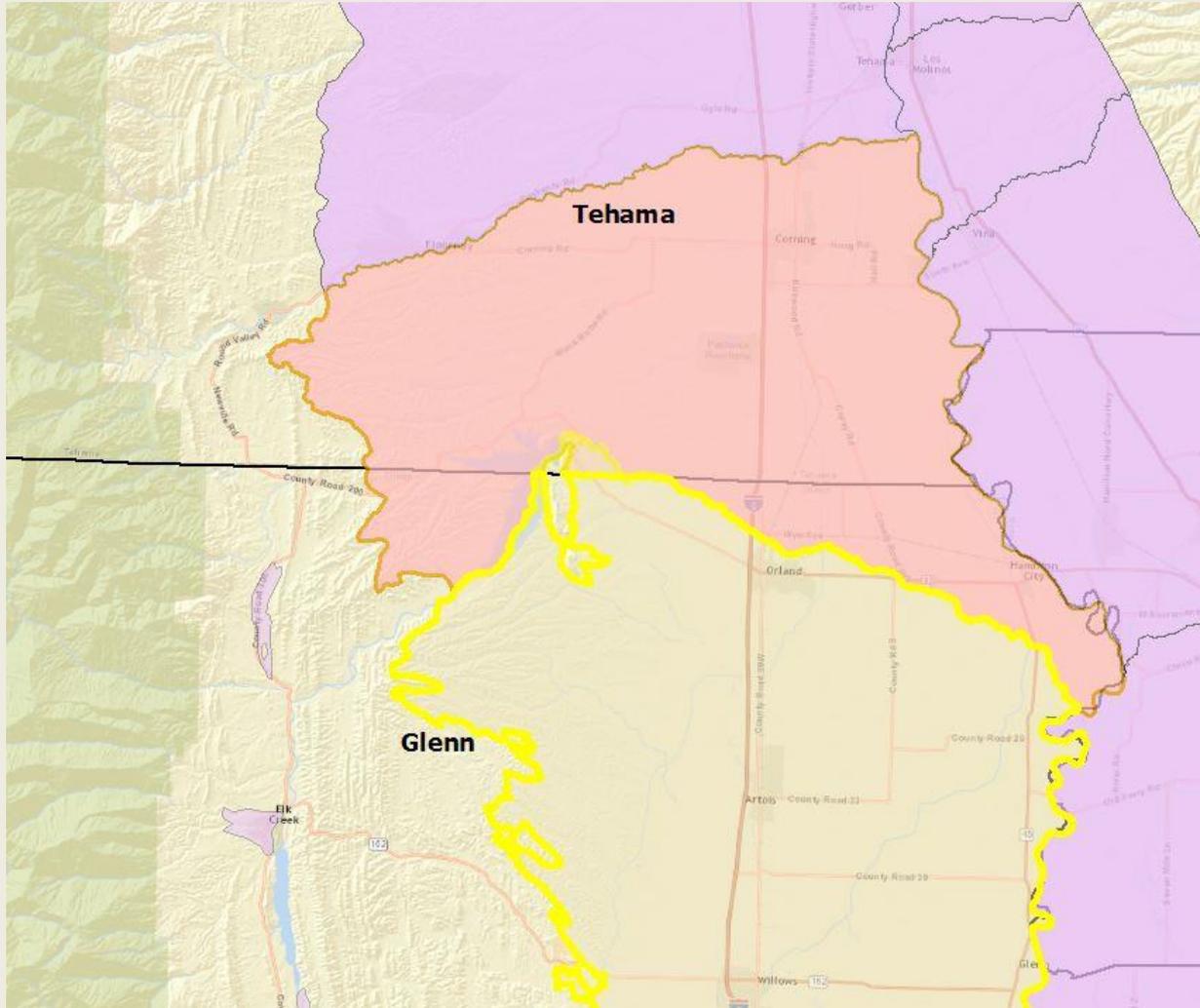
BBMRS-NRO



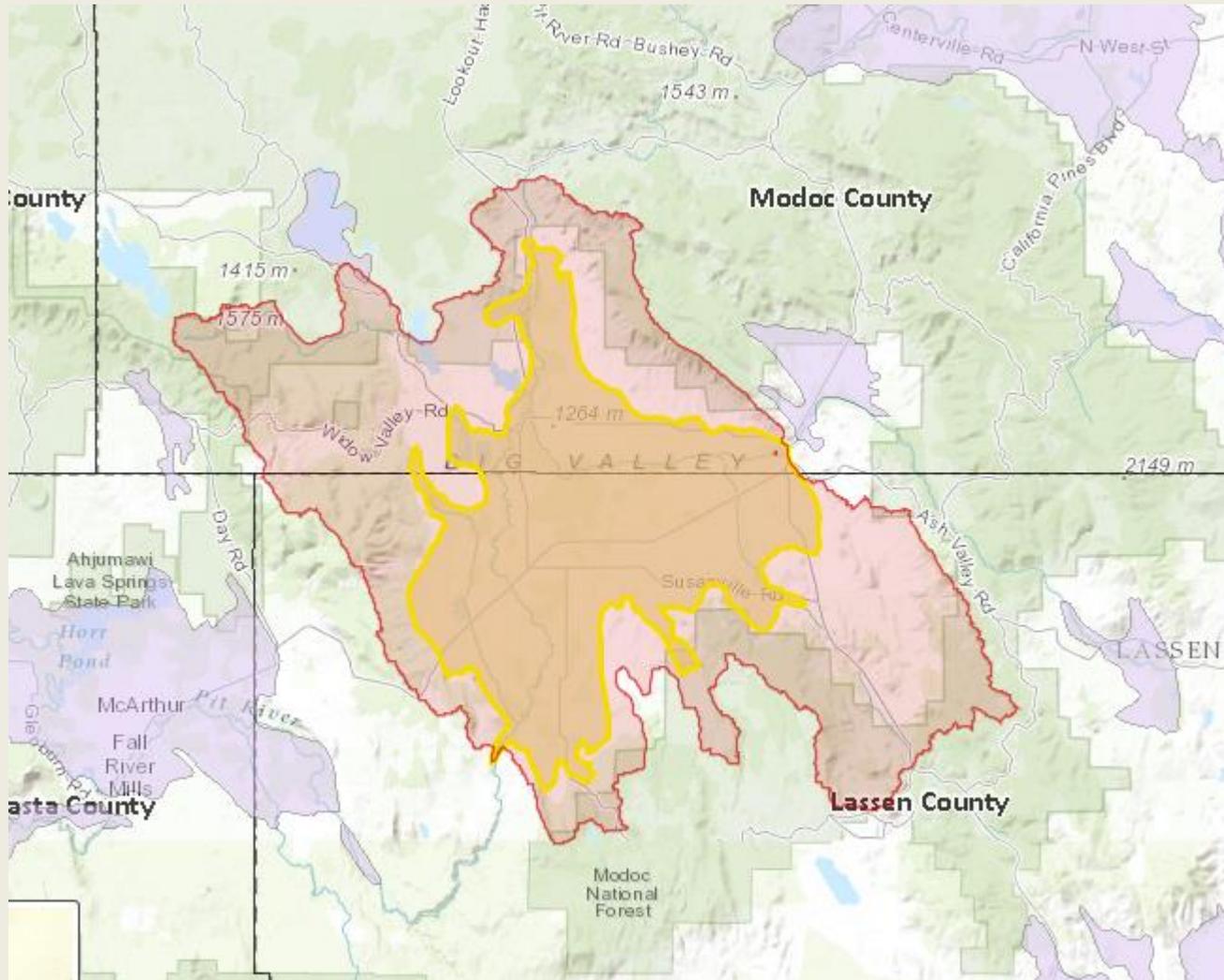
Tule Lake Subbasin



Colusa Subbasin



Big Valley Basin





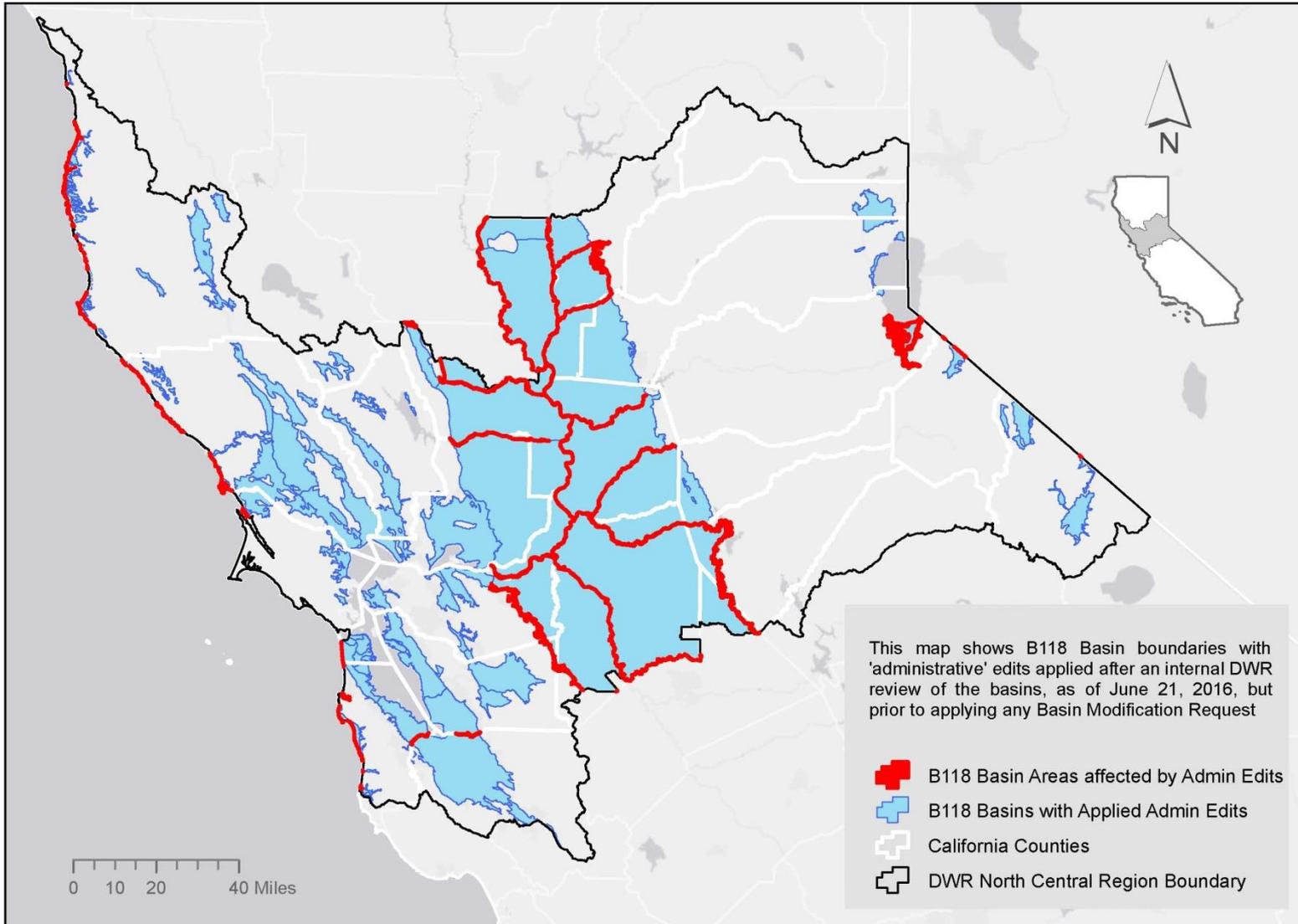
Public Meeting Comments

- Volcanic Aquifers should be included.
- Reprioritization Process could lift some basins into medium or high priority.



North Central Region

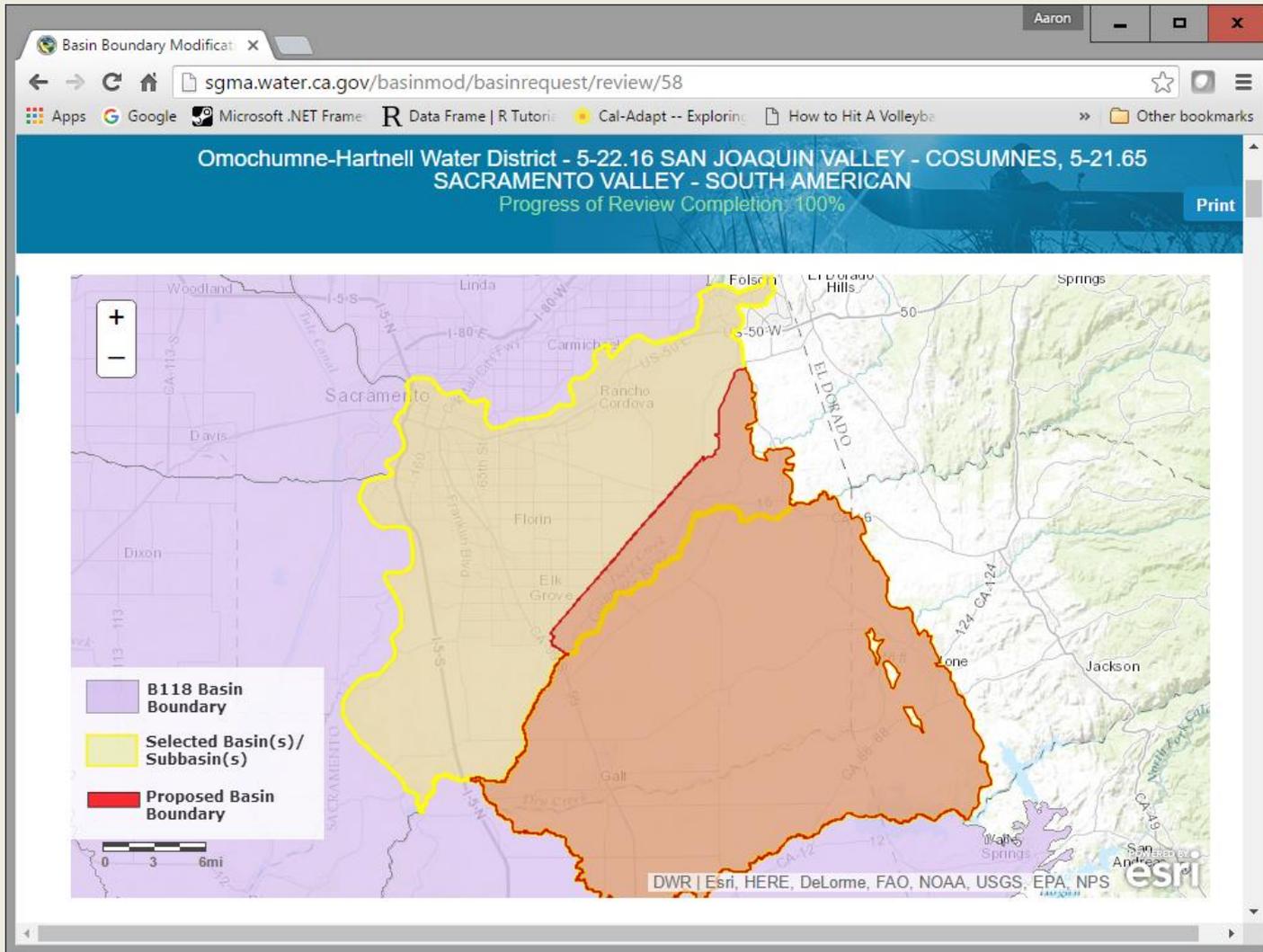
- Boundary Modifications
- Public Meeting Comments



DWR North Central Region - B118 Basins and Changed Areas

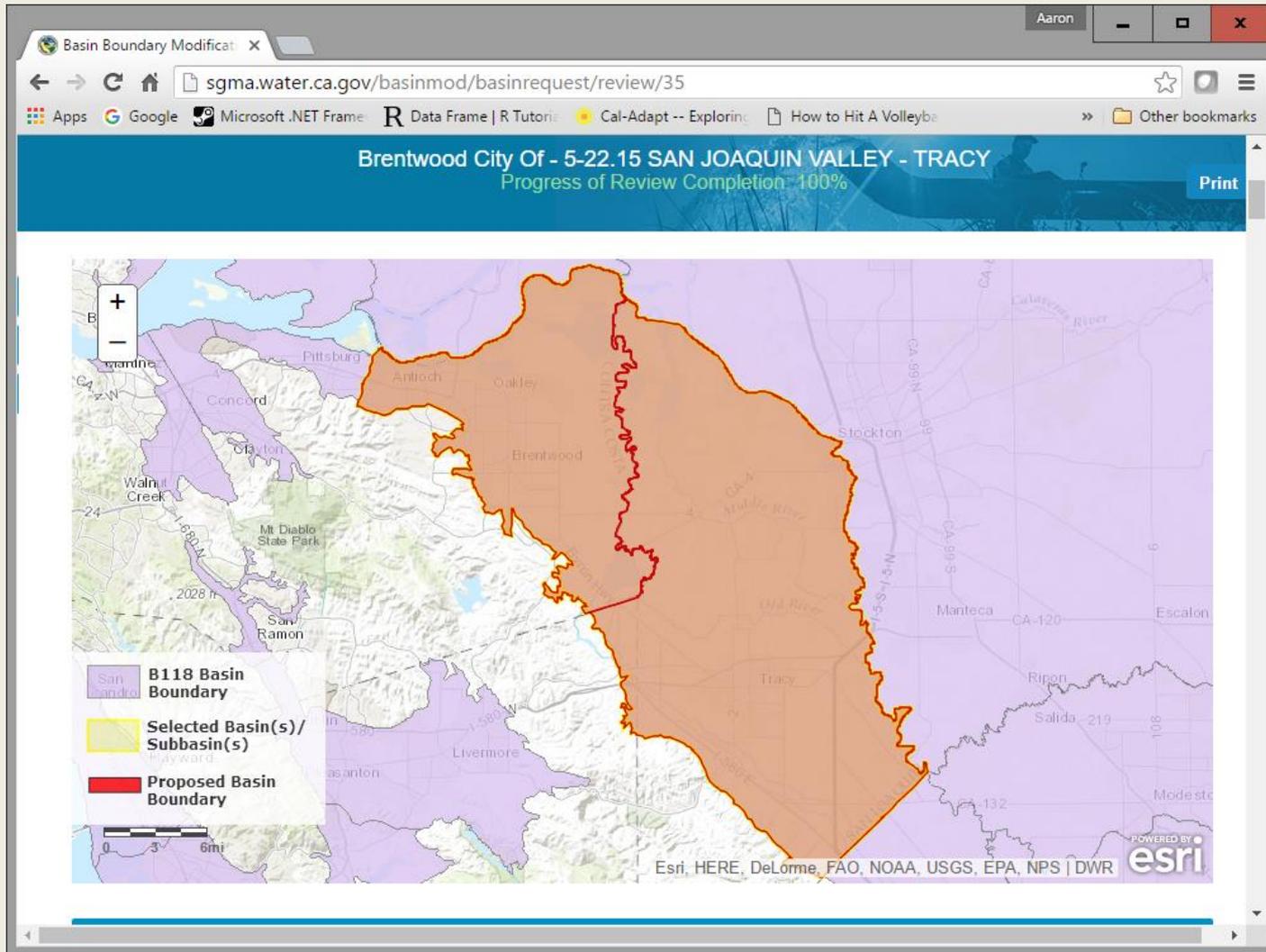


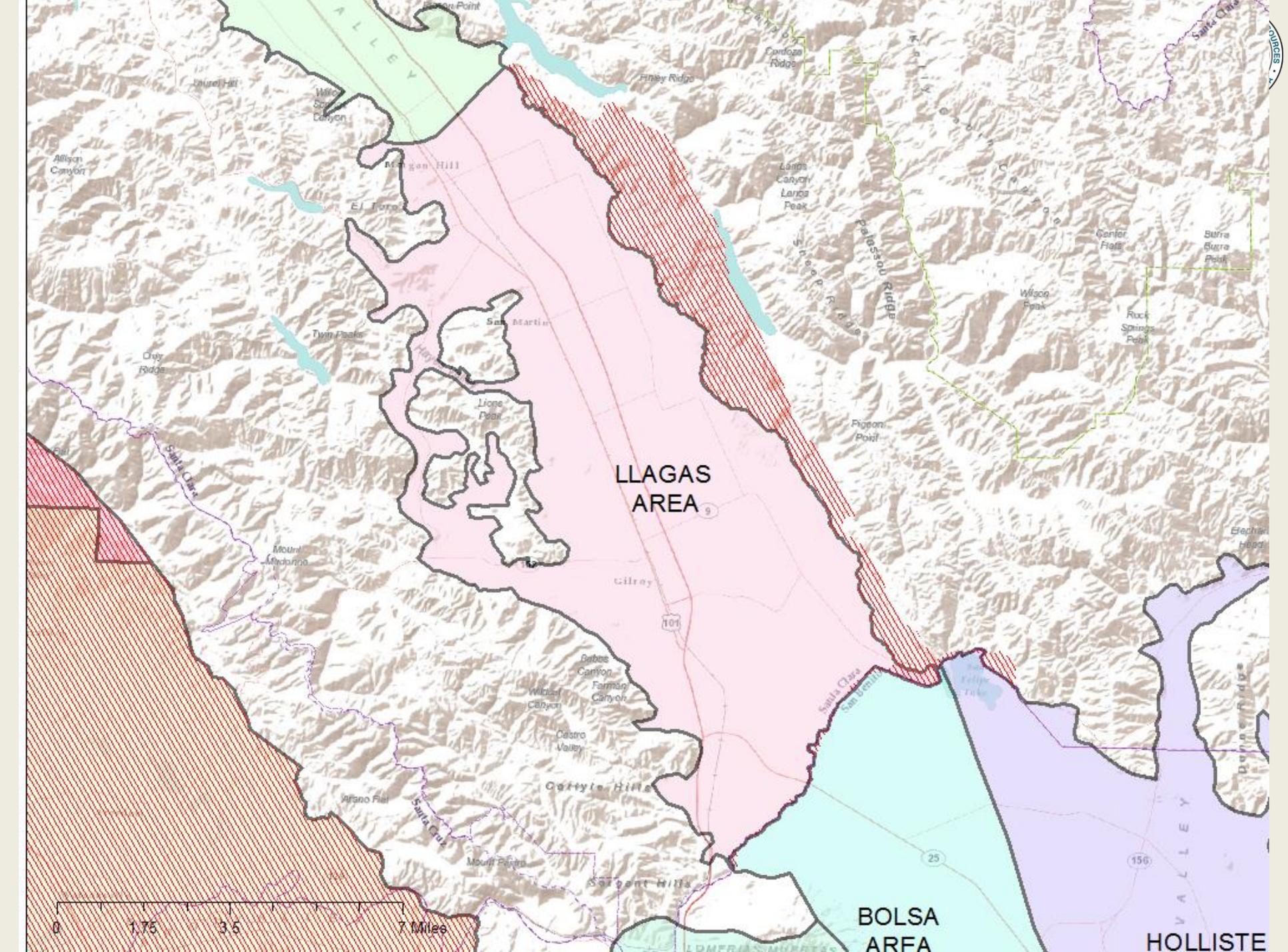
San Joaquin Valley - Cosumnes





San Joaquin County – Tracy

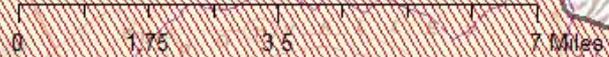


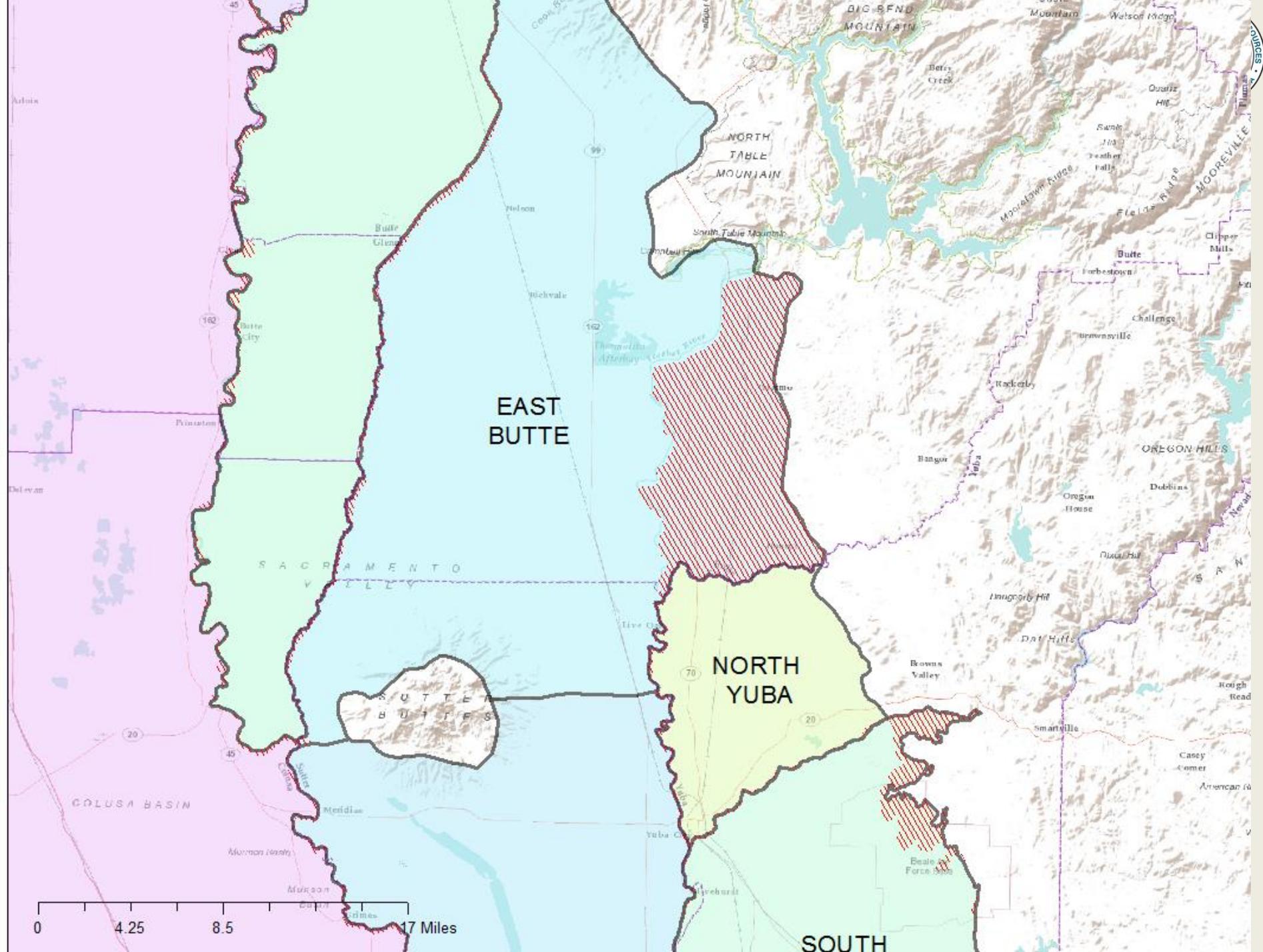


LLAGAS AREA

BOLSA AREA

HOLLISTE





SOUTH YUBA

NORTH AMERICAN

Olivehurst

Wheatland

Camp
Fair West
Reservoir

Sheridan

Rio

Sutter
Placer

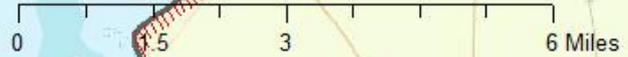
70

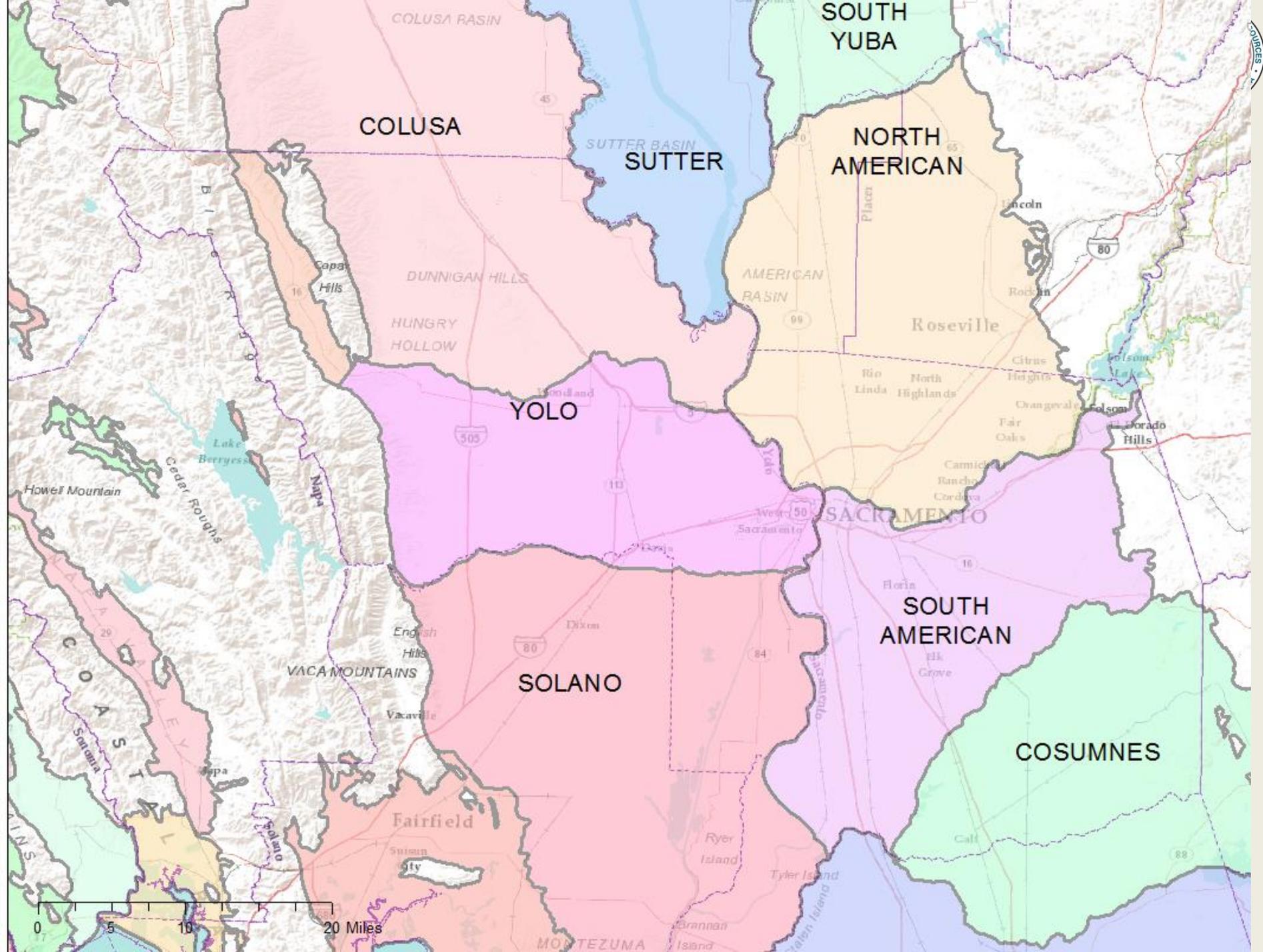
East Nicolaus

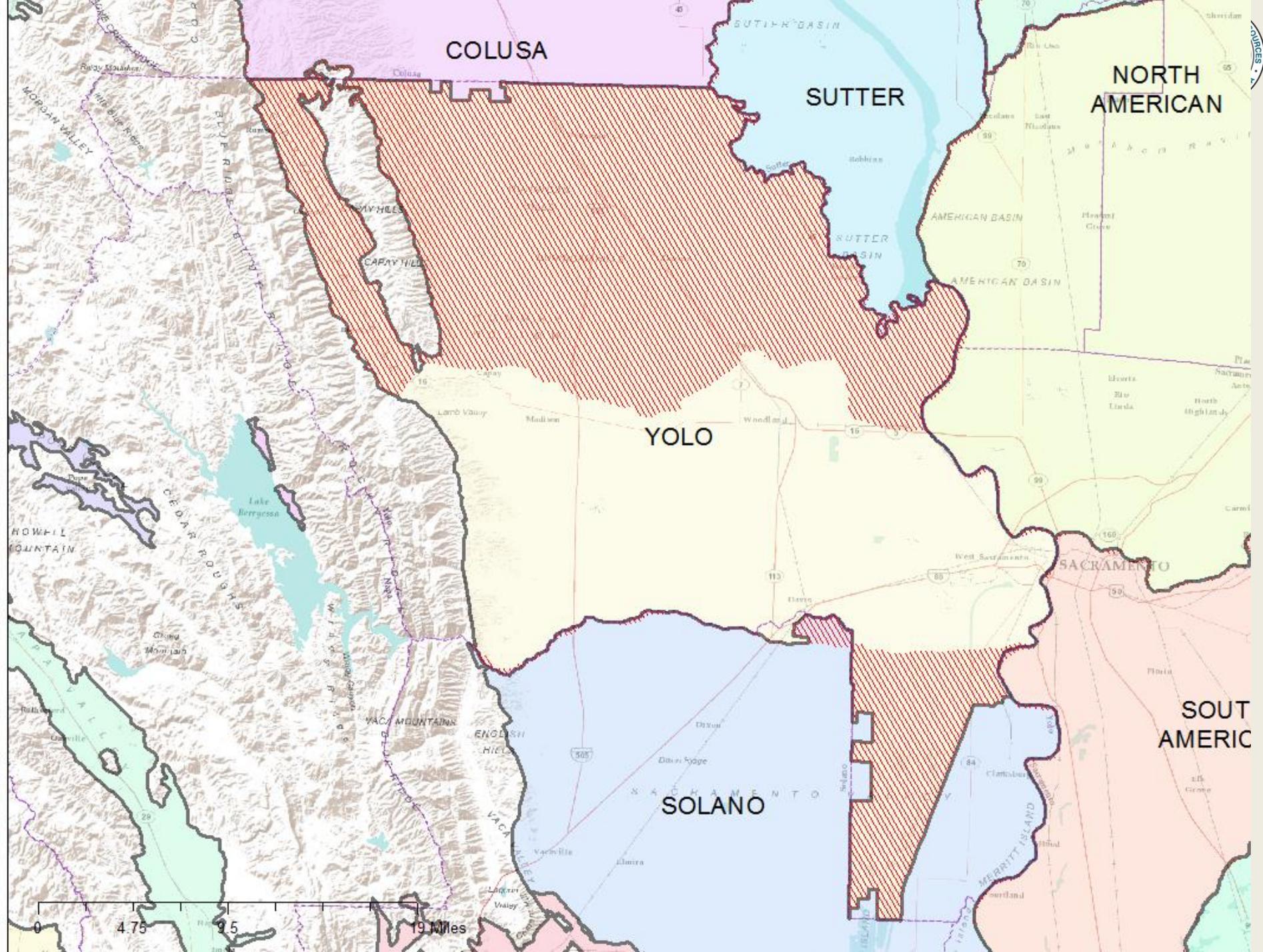
Nicolaus

Marathon Ravine

Lincoln







COLUSA

SUTTER

NORTH AMERICAN

YOLO

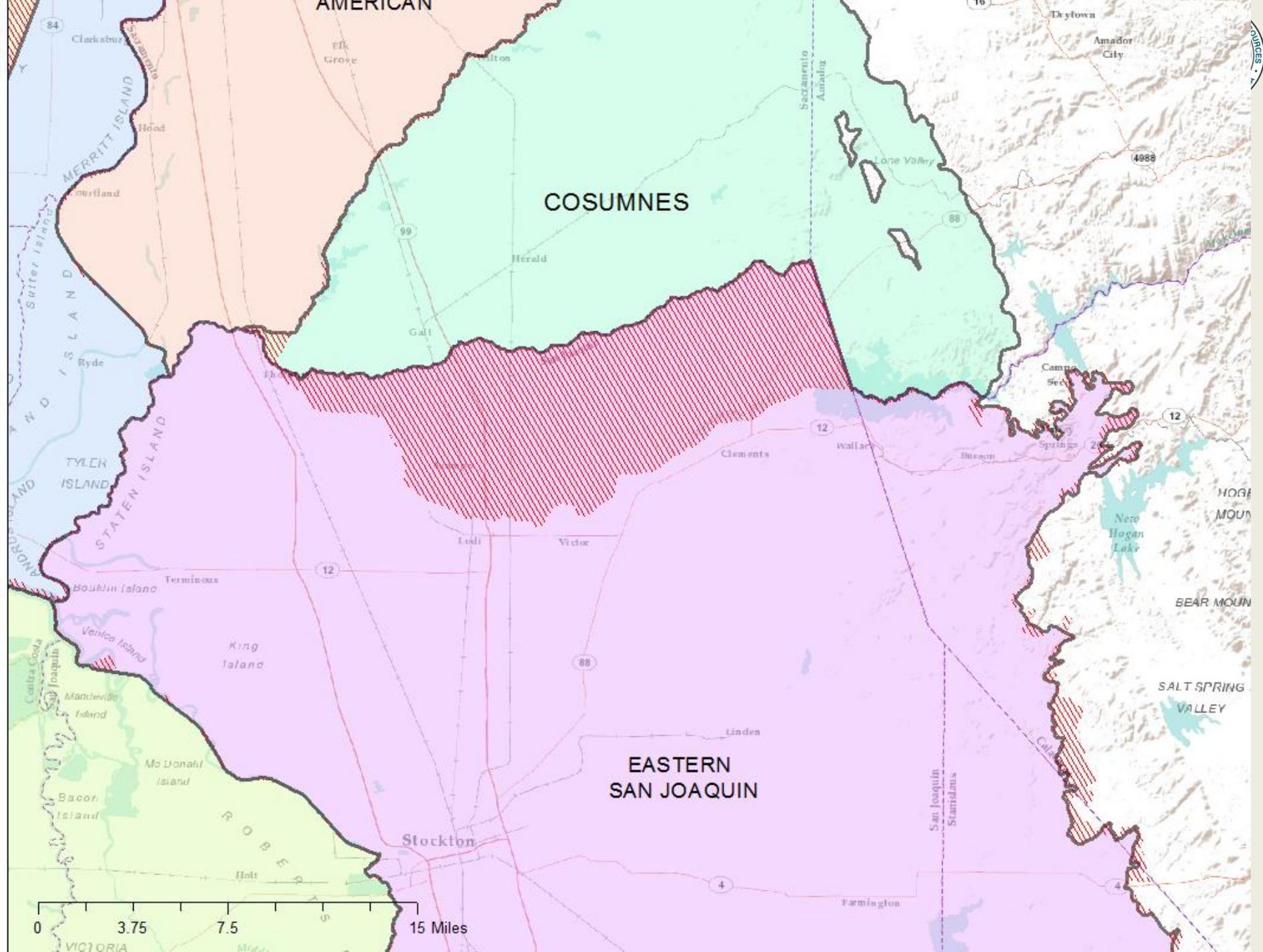
SOLANO

SACRAMENTO

SOUTH AMERICAN

0 4.75 9.5 19 Miles

SOURCES



COSUMNES

EASTERN
SAN JOAQUIN

0 3.75 7.5 15 Miles



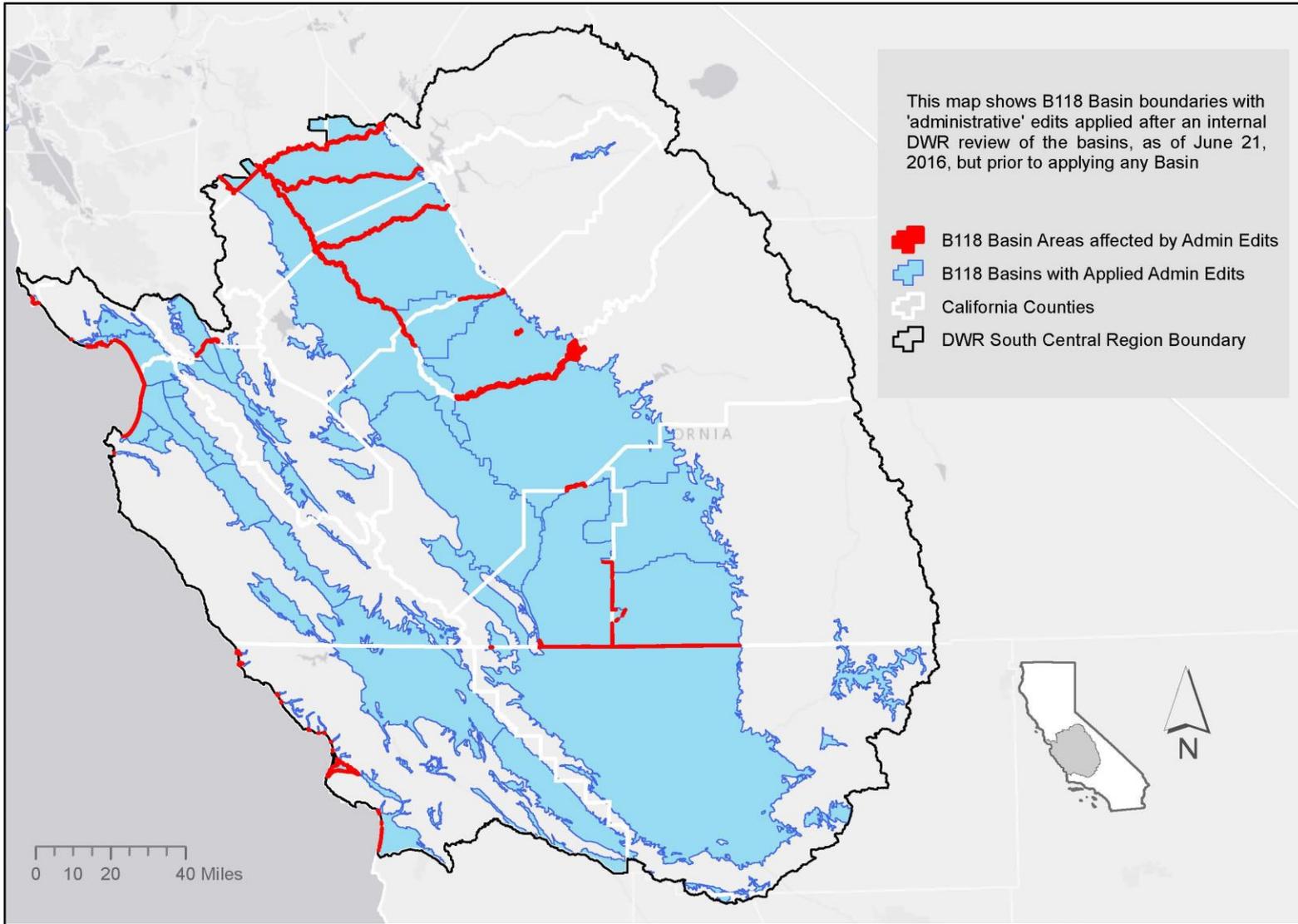
NCRO Comments

- Cosumnes Basin
 - concern over decreasing size of basin as result of modifications
 - failure to approve puts hardship on existing local agencies and does not represent local interests
 - concern that county input can stop request and lack of coordination and cooperation
 - Eastern San Joaquin subbasin promoting coordination and cooperation necessary to meet sustainability with Cosumnes
 - Watershed based approach may be more appropriate
 - SCGA active groundwater management in area and represents urban and agricultural interest.
- Paso Robles – Templeton disagrees that scientific information provided did not meet the standard to define a basin boundary
- Niles Cone - ACWD supports modification approval and appreciates DWR engagement in process
- Yolo Subbasin – County consolidation and Jurisdictional internal
 - Yolo County Board of Supervisors supports – Creates efficient coordination within Yolo County to implement SGMA.
 - Solano County Board of Supervisors opposed – feels breaks up basin resulting in less likely condition of sustainability. Concern over Inter-Basin agreements.



South Central Region

- Boundary Modifications
- Public Meeting Comments



DWR South Central Region - B118 Basins and Changed Areas



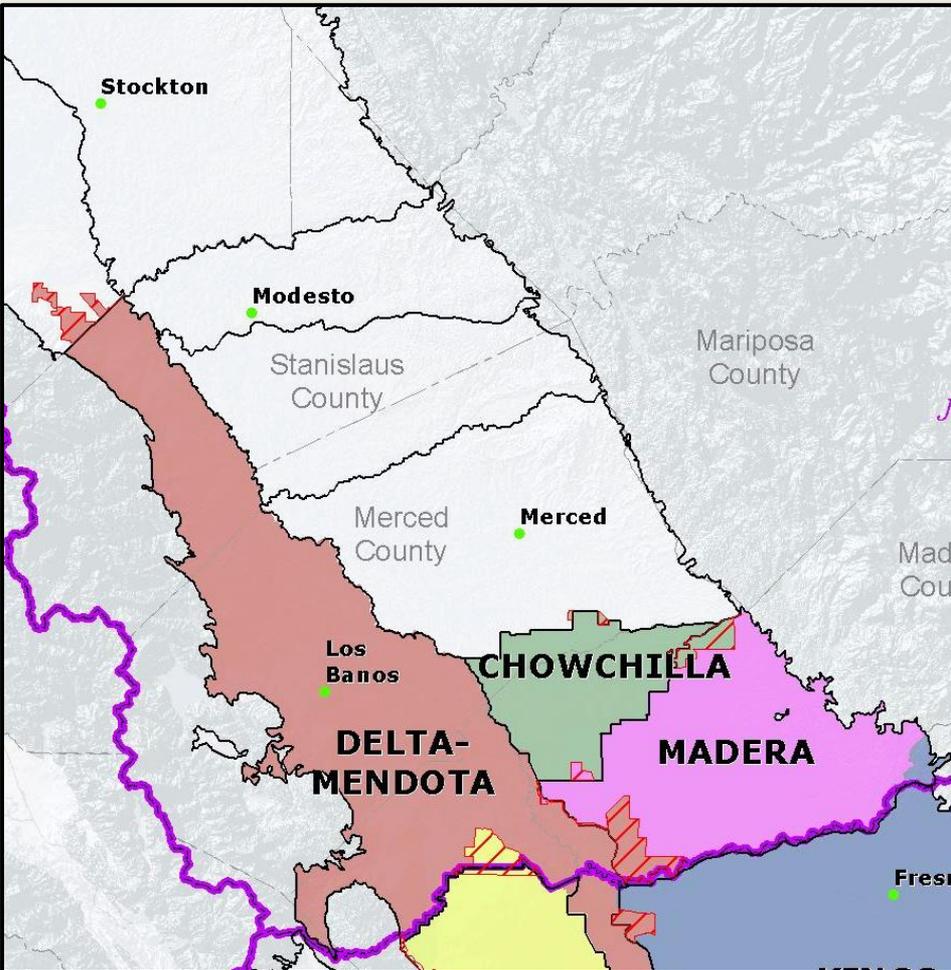
San Joaquin River Hydrologic Region

Number of Requests	Approved	Approved, as modified	Denied
4	3	1	0

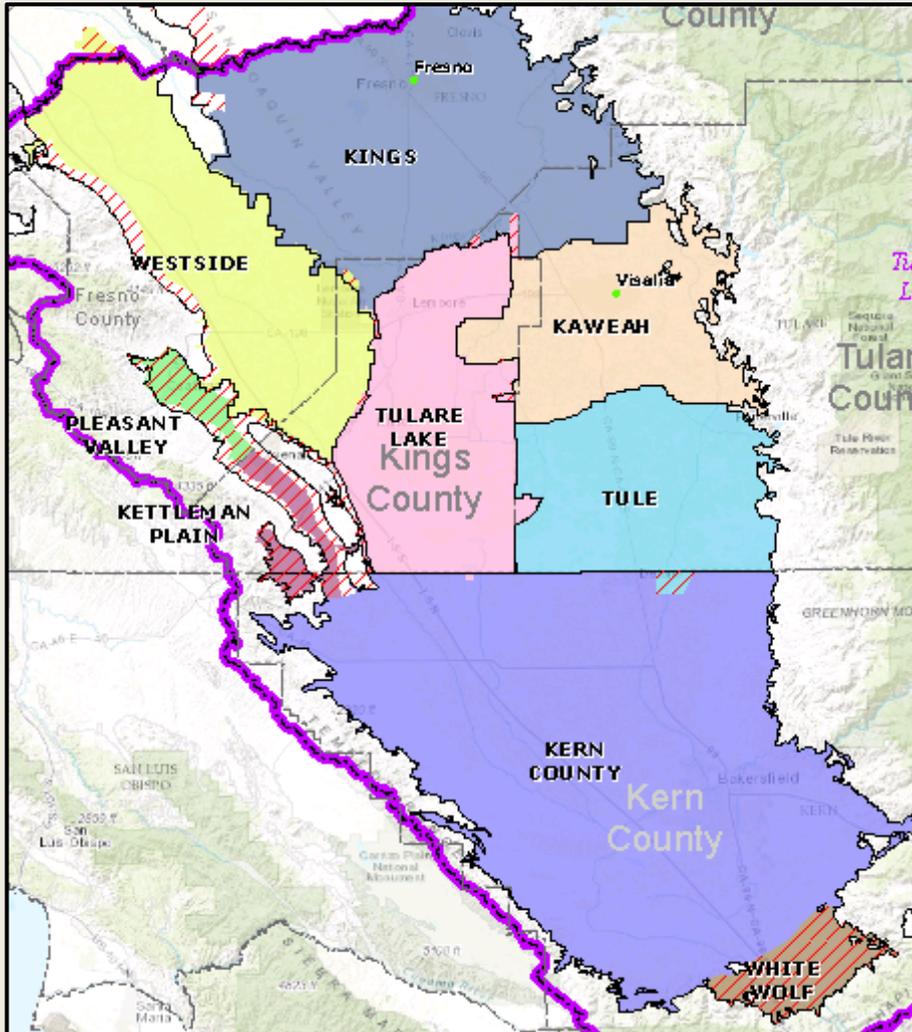
Total Basins Modified – 4

Basins Removed/Renamed – 0

Basins Added/Renamed – 0



Tulare Lake Hydrologic Region

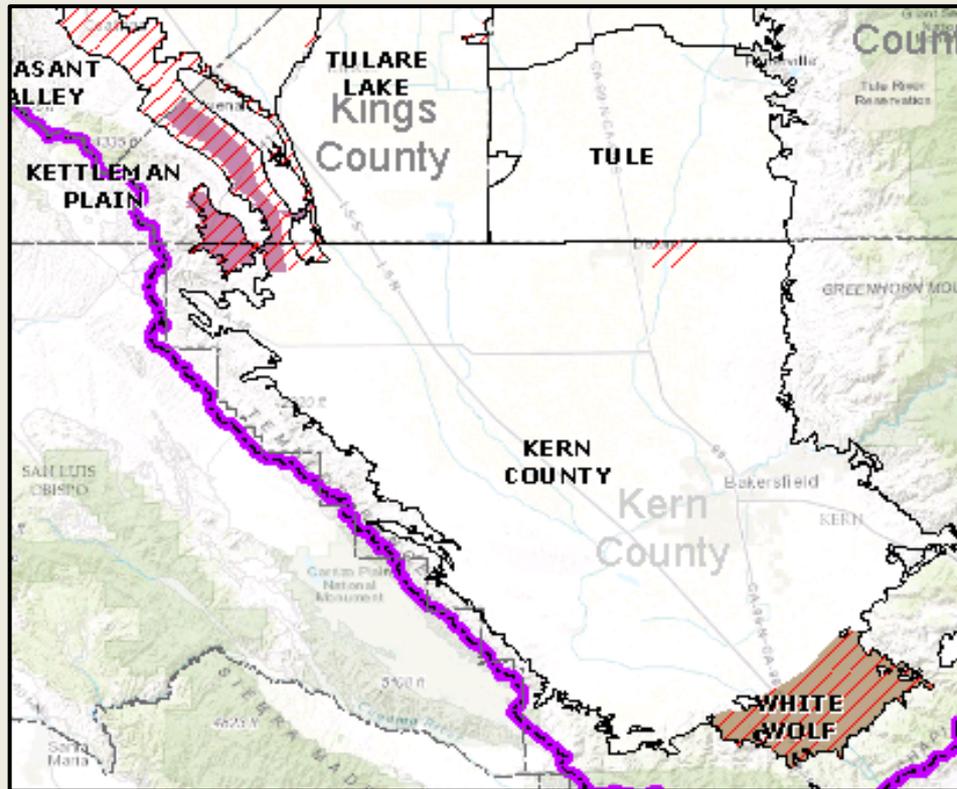


Number of Requests	Approved	Approved, as modified	Denied
10	5	4	1

Total Basins Modified – 7

Tulare Lake Hydrologic Region

Number of Requests	Approved	Approved, as modified	Denied
10	5	4	1



Total Basins Modified – 7

Basins Removed/Renamed – 0

Basins Added/Renamed – 2

- San Joaquin Valley Basin – Kettleman Plain and White Wolf Subbasins**

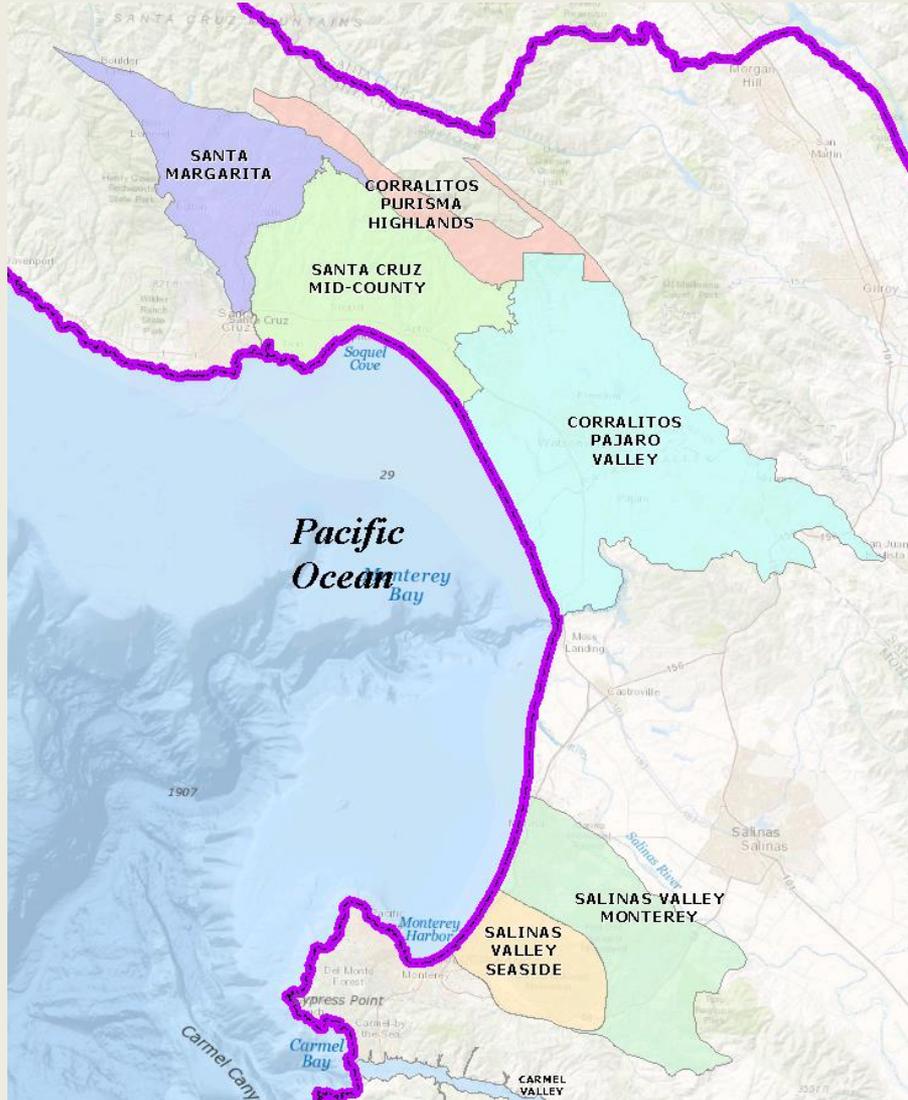
Central Coast Hydrologic Region



Number of Requests	Approved	Approved, as modified	Denied
8	1	3	4

Total Basins Modified – 10

Central Coast Hydrologic Region



Number of Requests	Approved	Approved, as modified	Denied
8	1	3	4

Total Basins Modified – 10

Basins Removed/Renamed – 6

Basins Added/Renamed – 6

1. **Salinas Valley Basin** – Seaside and Monterey Subbasins
2. **Corralitos Basin** – Pajaro Valley and Purisma Highlands Subbasins
3. **Santa Cruz Mid-County Basin**



Comments

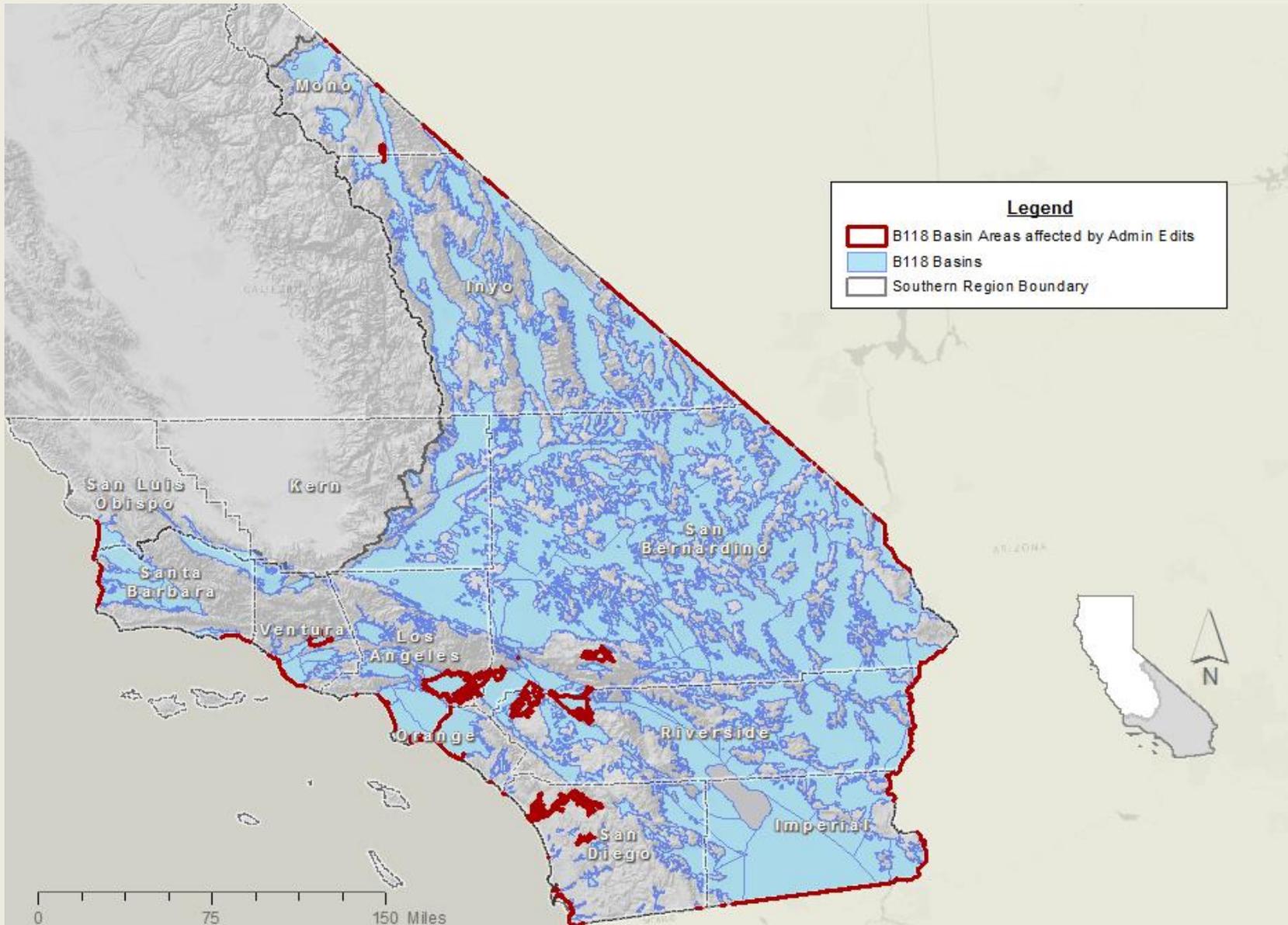
- Los Osos basin concern over scientific basin definition and addressing “Fringe Areas” outside of adjudicated area.
 - East area basin resident urges reconsideration as a Scientific Internal based subdivision to address fringe area concern.
- Westside subbasin concern over addressing “White Areas” (regions outside local agency jurisdiction within the basin)
- San Joaquin Valley basins concern over use of best available science and need for flexibility to decrease socioeconomic impact
 - Concern over establishment of baseline condition and implementation timeline



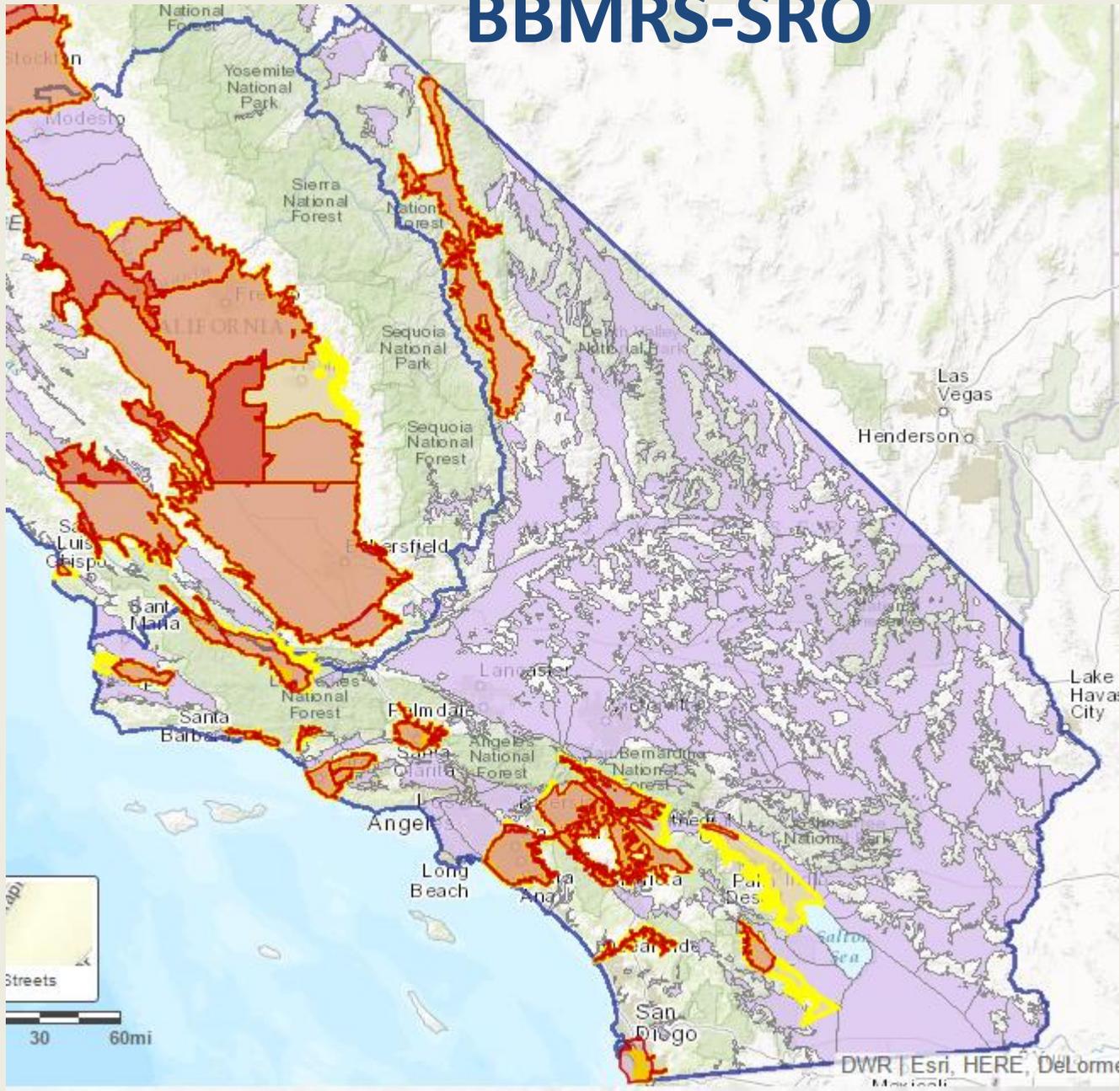
Southern Region

- Boundary Modifications
- Public Meeting Comments

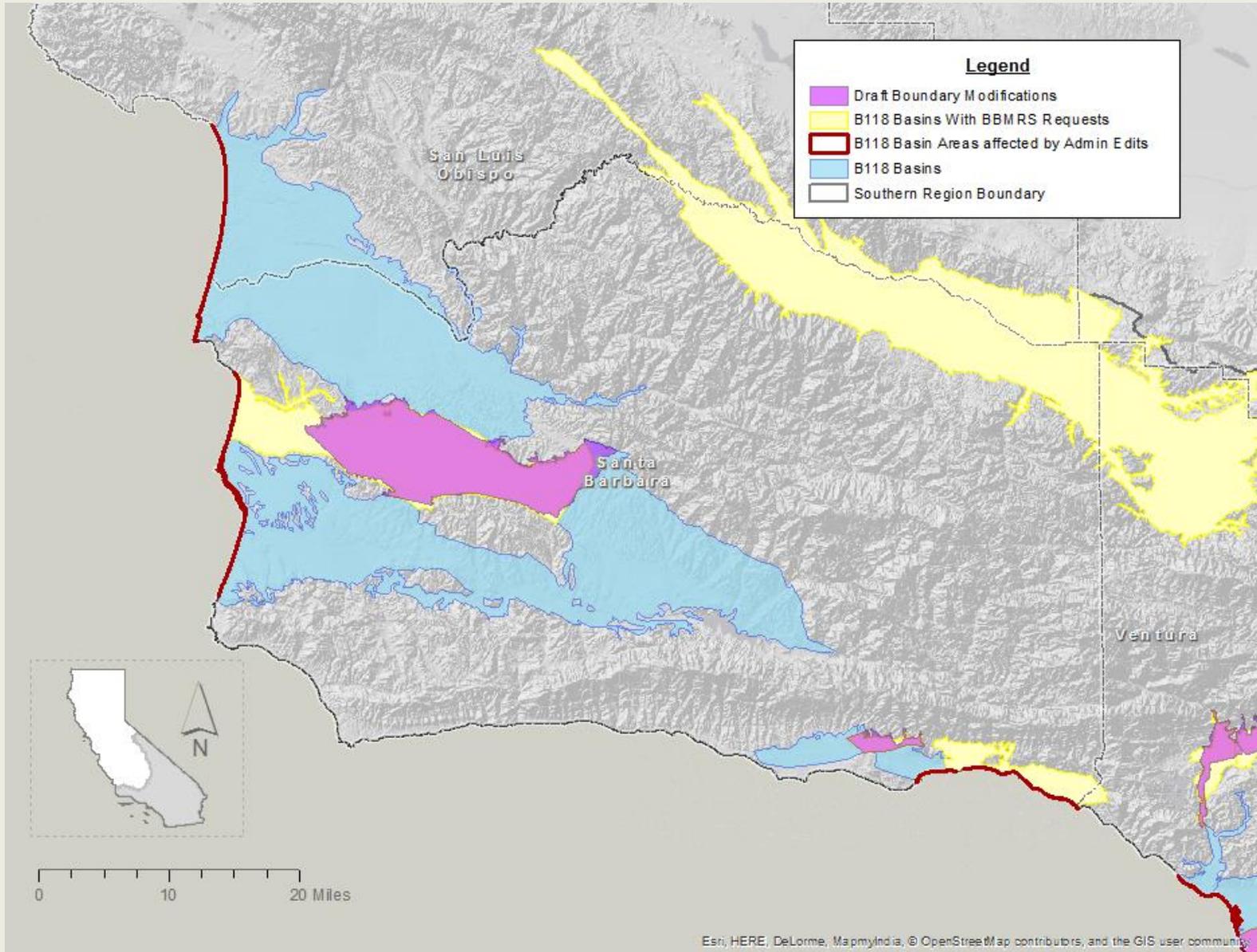
Basin Boundary Administrative Edits



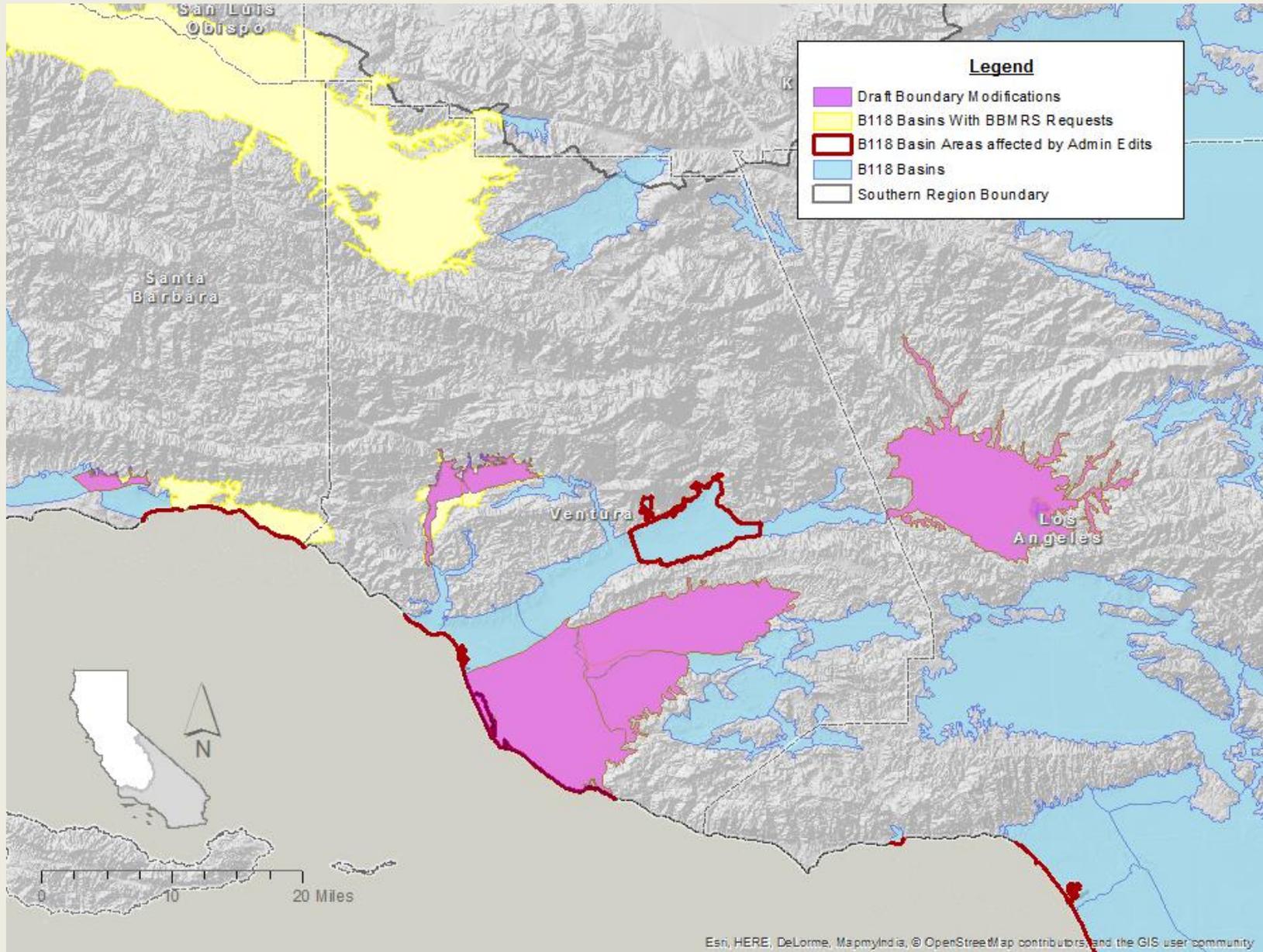
BBMRS-SRO



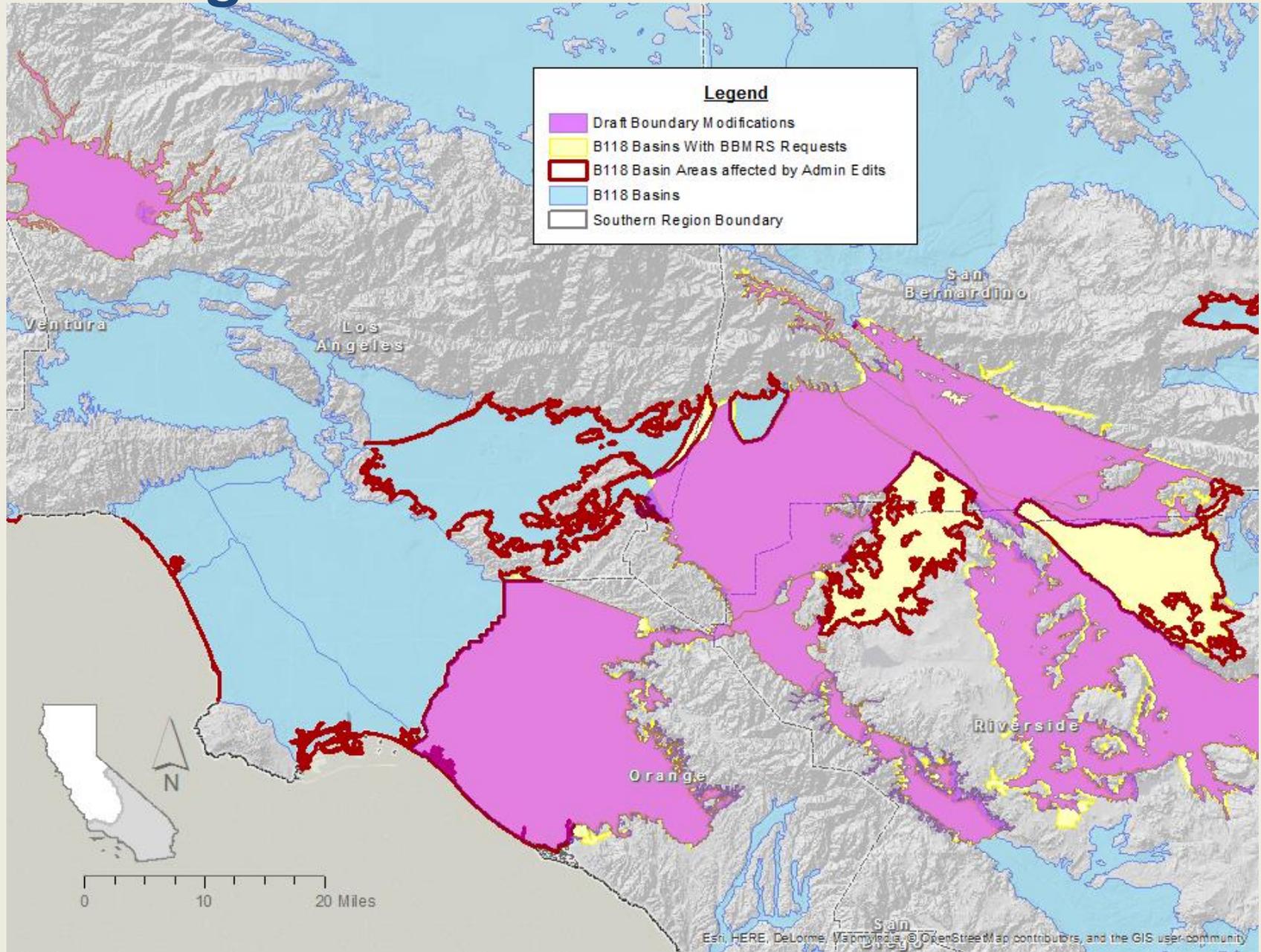
Santa Barbara County Modifications



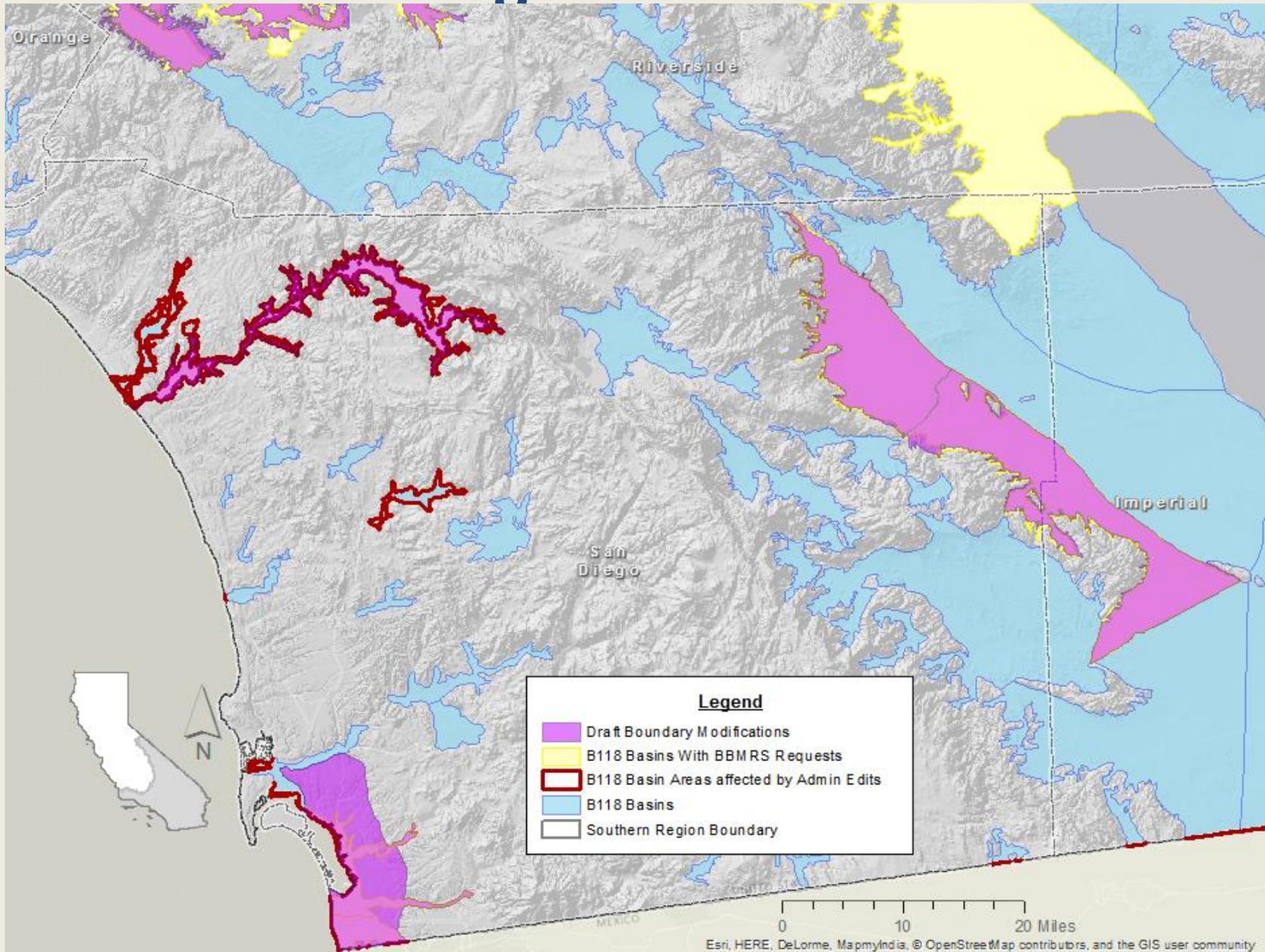
Ventura County Modifications



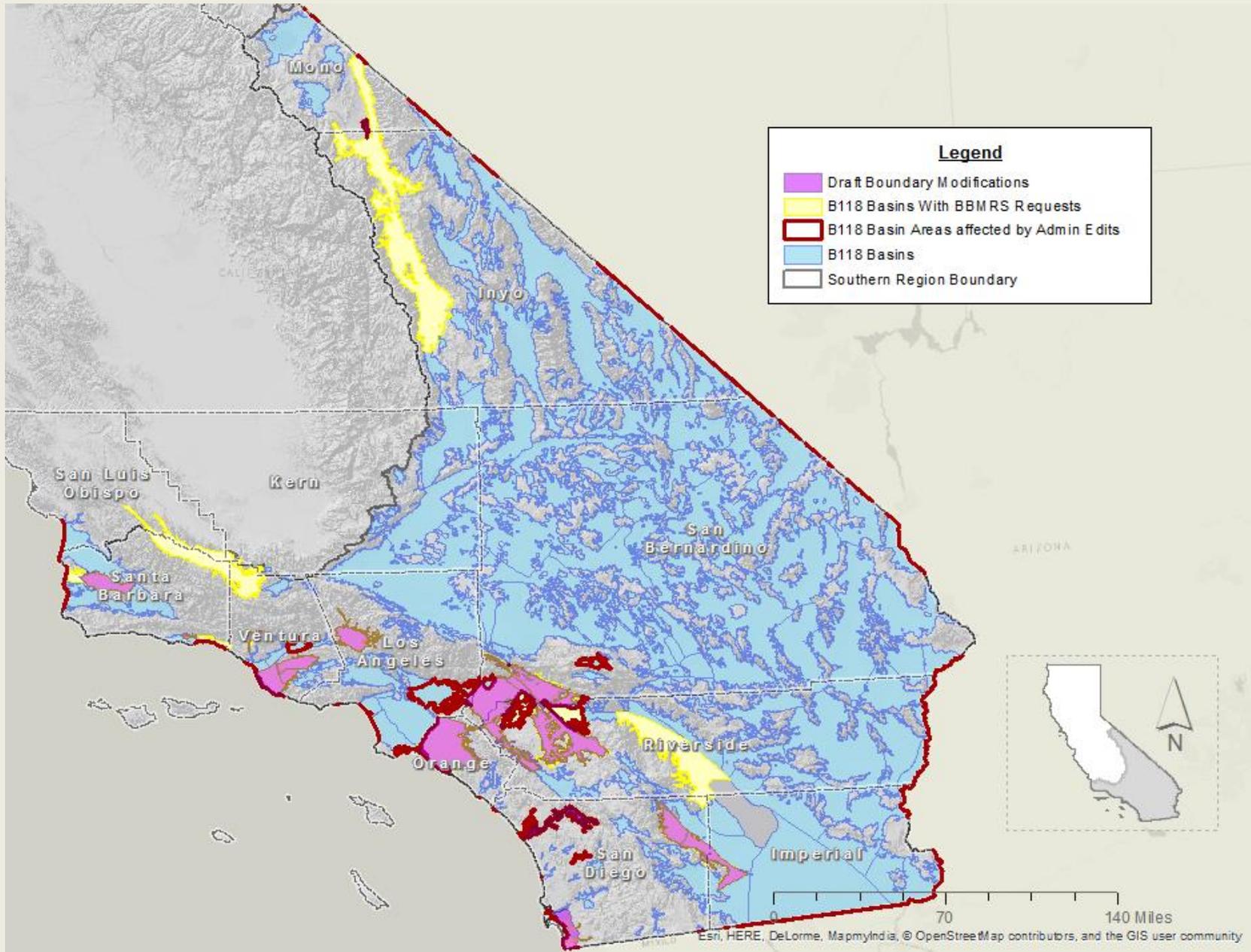
Los Angeles and Santa Ana Modifications



San Diego Modifications



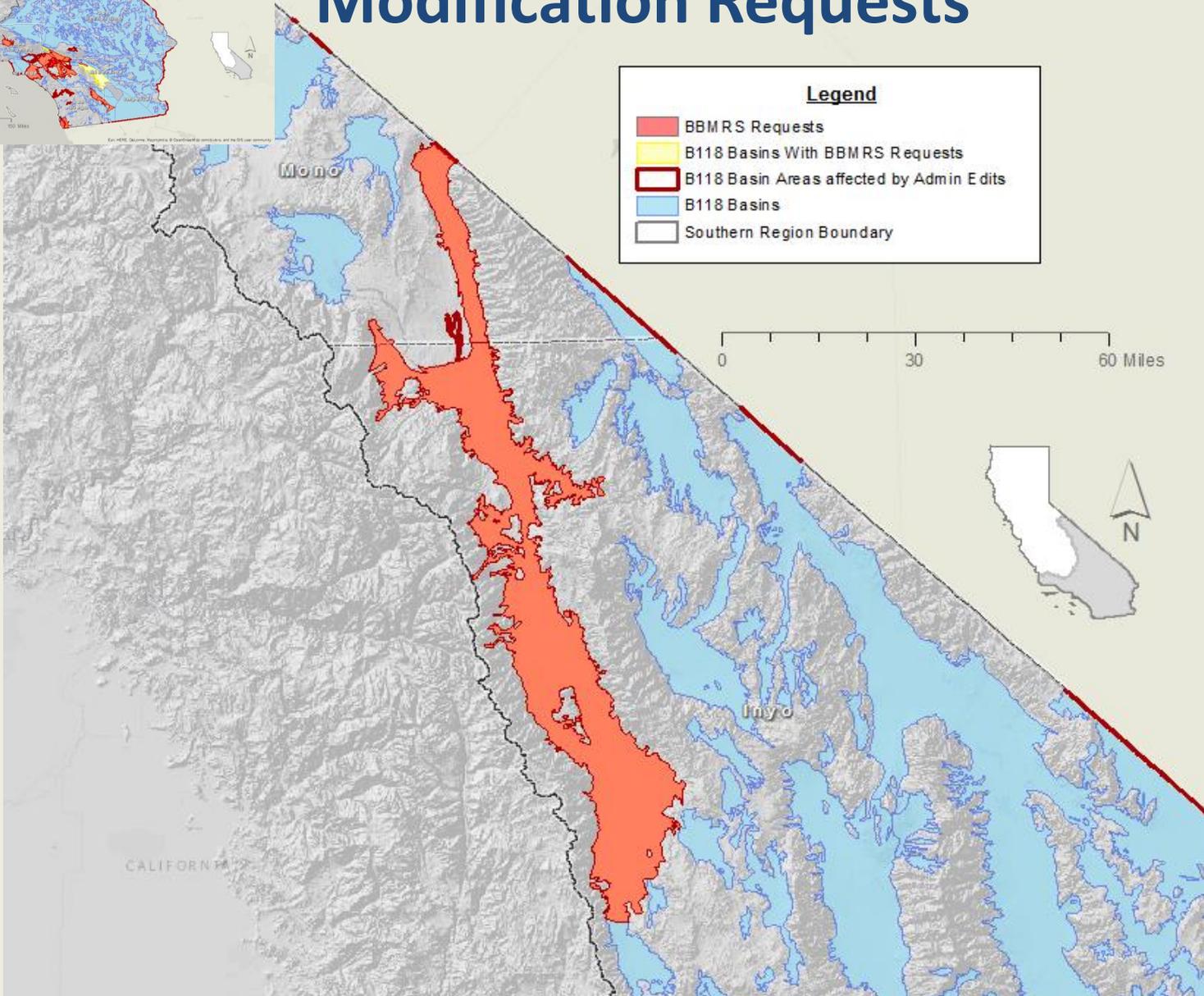
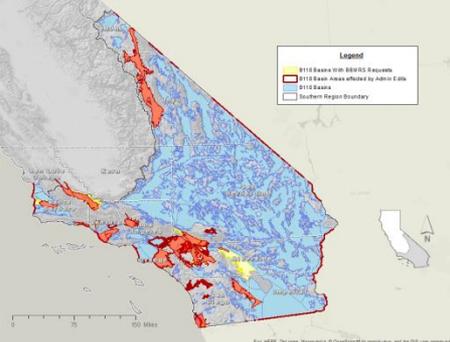
Desert Modifications



Inyo & Mono Modification Requests

Legend
■ B118 Basins With BBMRS Requests
■ B118 Basins Areas affected by Admin E edits
■ B118 Basins
■ Southern Region Boundary

Legend
■ BBMRS Requests
■ B118 Basins With BBMRS Requests
■ B118 Basin Areas affected by Admin E edits
■ B118 Basins
■ Southern Region Boundary



CALIFORNIA

Mono

Inyo



Comments

- San Luis Rey concerns over subdivision and impact to tribal water rights, sustainable management, and desire for collaboration
- City of La Habra and Incomplete status of request
- Cuyama Basin and local concern over subdivision
- Chino Basin and concern over addressing “Fringe Areas”
- San Jacinto desire to include area of thin alluvial cover over fractured bedrock
- San Bernardino Adjudicated areas concern over future decisions on currently active litigation



Questions and Discussion

- Discuss specific basin boundaries requests or modifications
- Hear additional comments