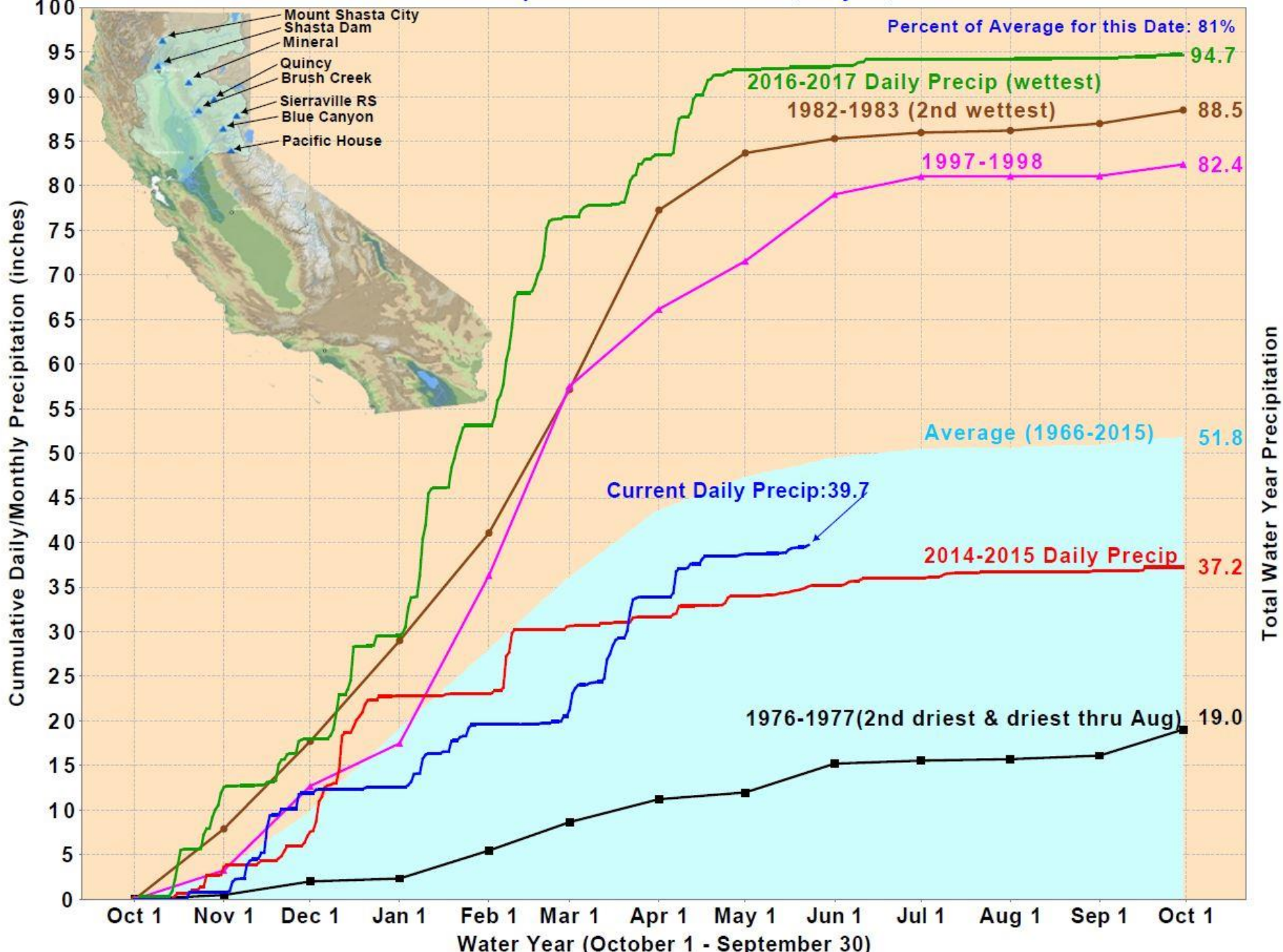


Stanislaus County Water Advisory Committee

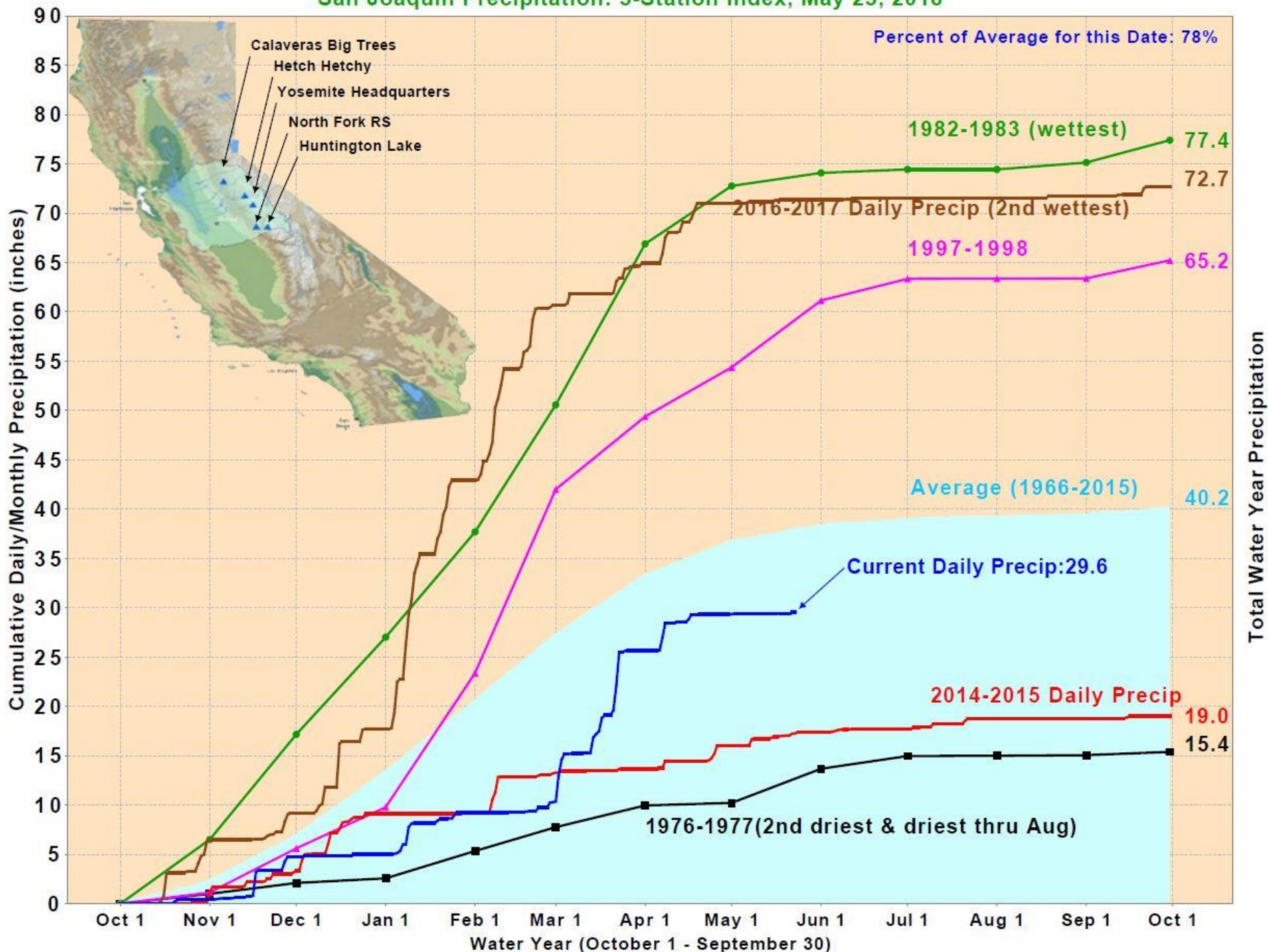
May 30, 2018

2018 Hydrologic Conditions and Water Supply Outlook

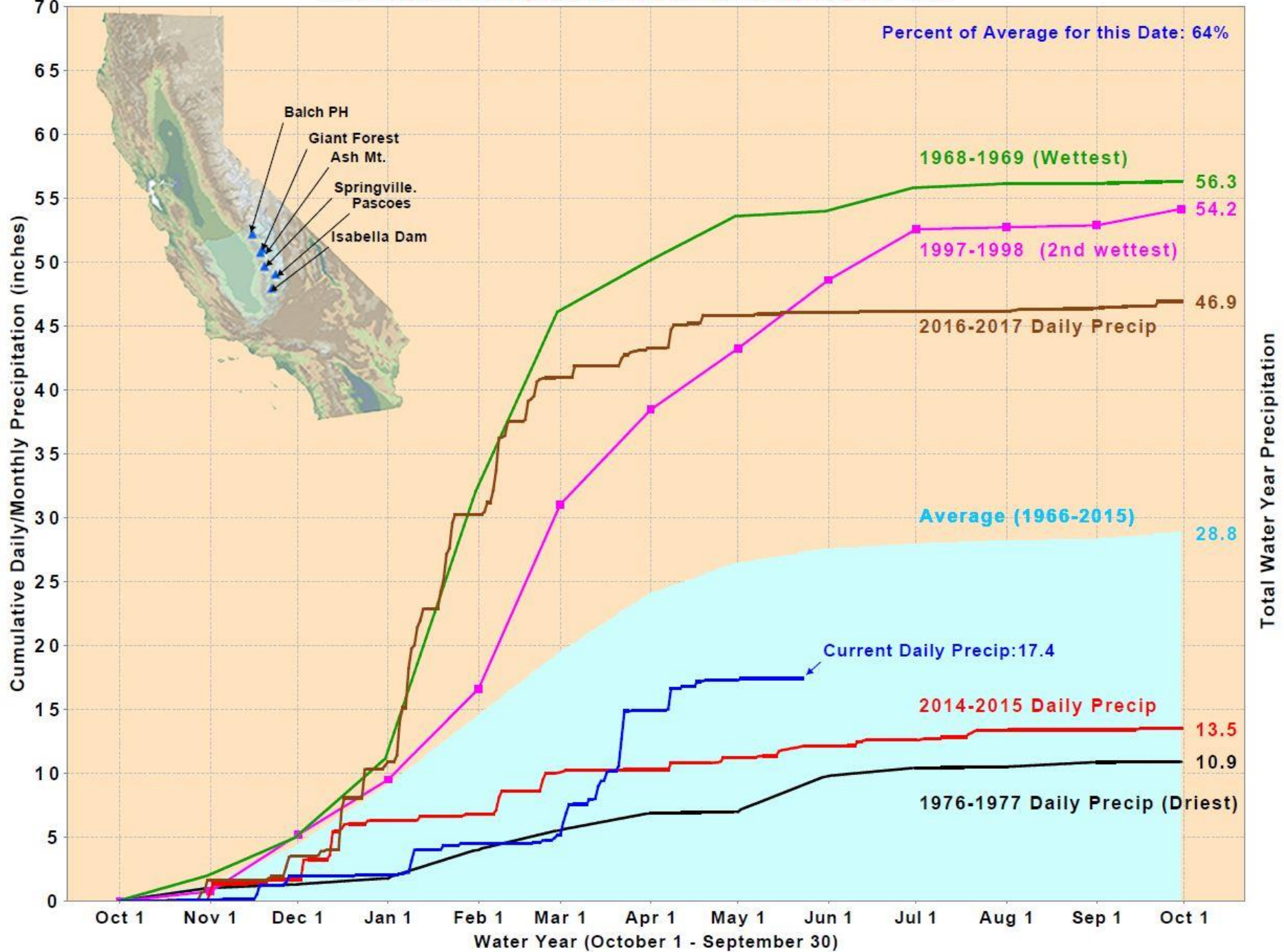
North Sierra Precipitation: 8-Station Index, May 23, 2018



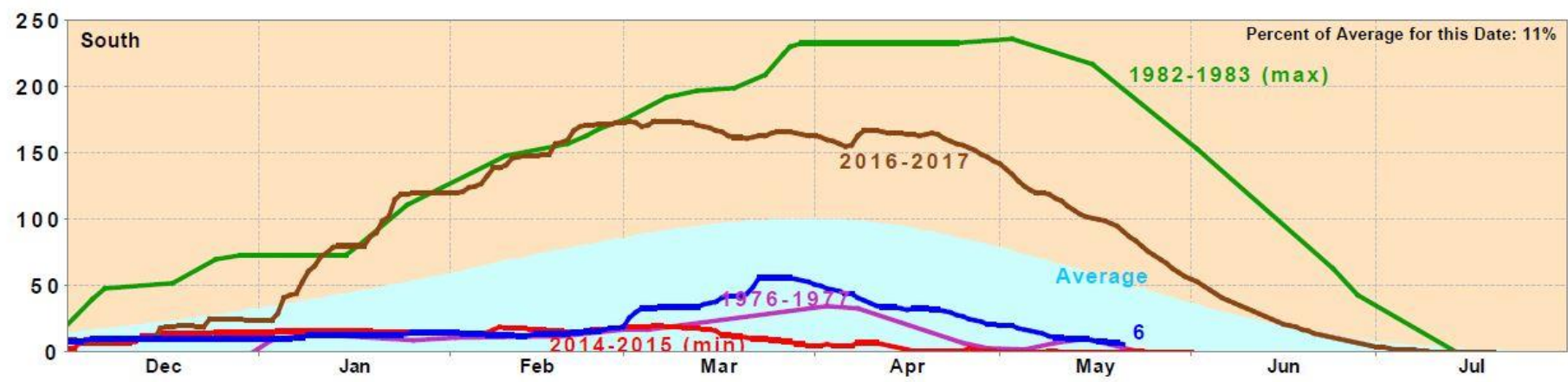
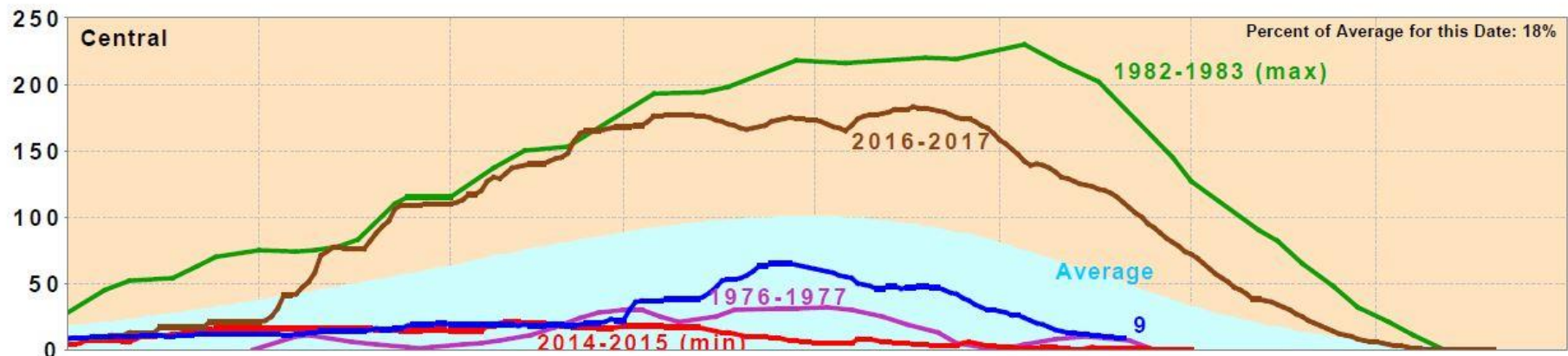
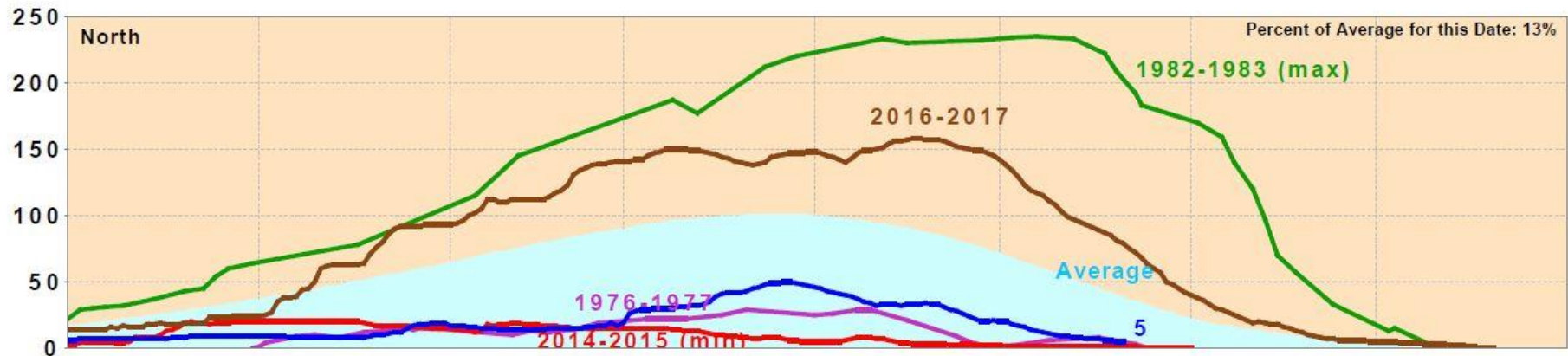
San Joaquin Precipitation: 5-Station Index, May 23, 2018



Tulare Basin Precipitation: 6-Station Index, May 23, 2018



California Snow Water Content, May 21, 2018, Percent of April 1 Average



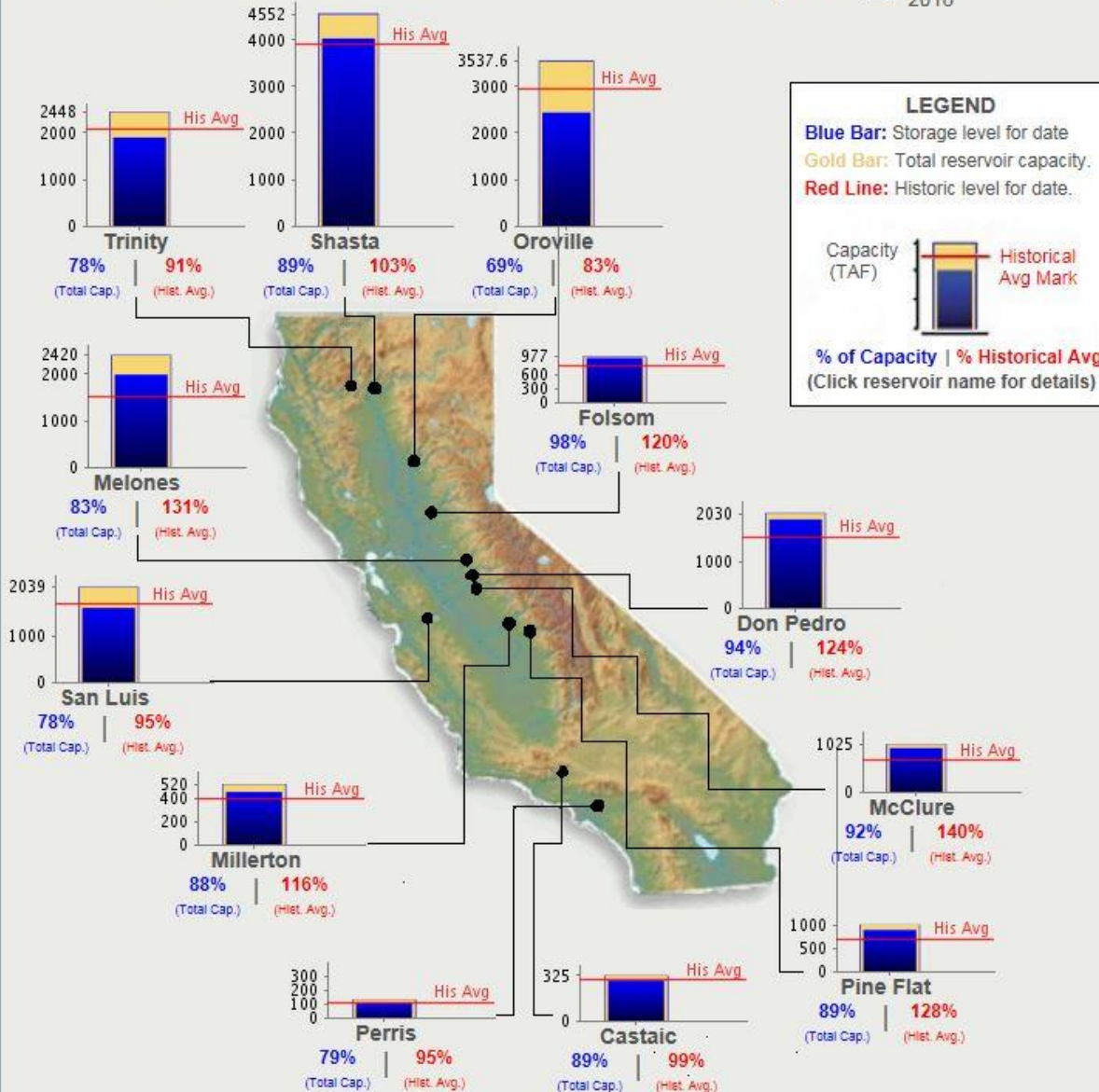
Statewide Percent of April 1: 7%

Statewide Percent of Average for Date: 15%

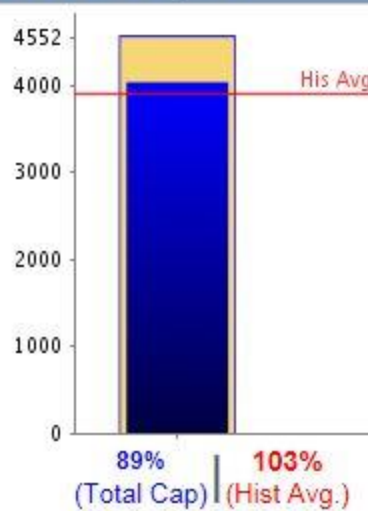
CURRENT CONDITIONS FOR MAJOR RESERVOIRS: 22-MAY-2018

Data as of Midnight: 22-May-2018

Change Date:  22-May-2018



SHASTA - STORAGE CONDITIONS AS OF MAY 22, 2018

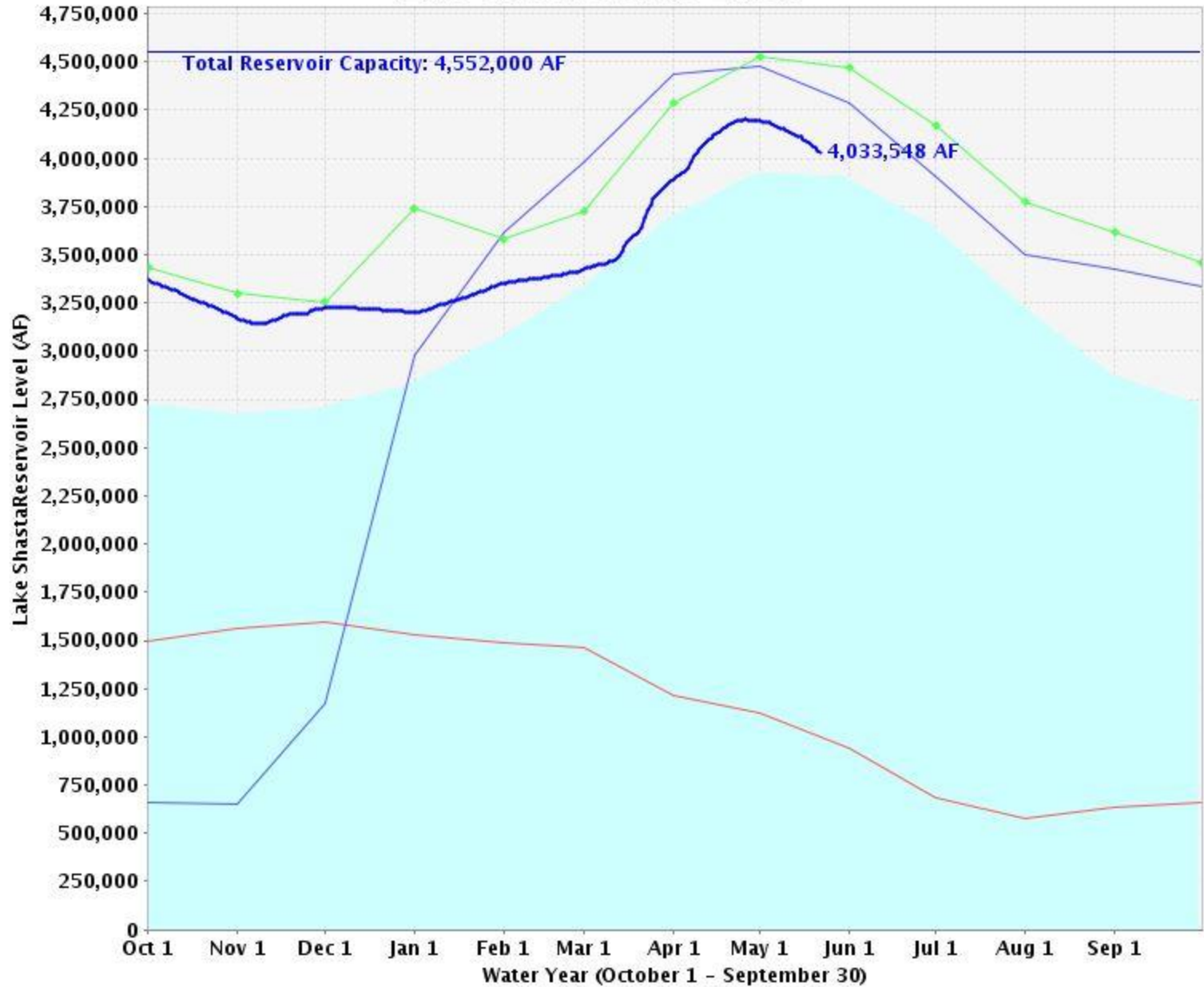


Data as of Midnight: May 22, 2018

- Current Storage: 4033548 AF
- 89% of Total Capacity
- **103% of Historical Avg. For This Date**
- (Total Capacity: 4552000.0 AF)
- (Avg. Storage for May 22: 3907448.0 AF)

Change Date: 22-May-2018

Lake Shasta Storage Levels

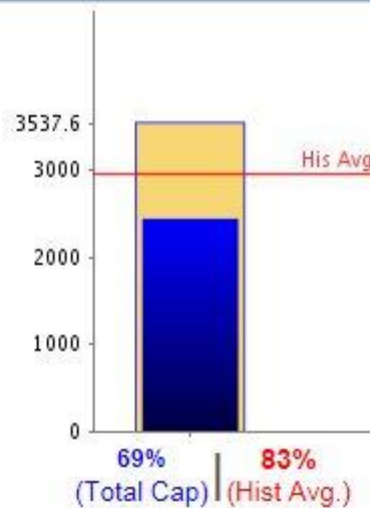


█ Historical Average
 — Total Reservoir Capacity
 — 1976-1977 (dry)
 — 1977-1978
 —●— 1982-1983 (wet)
 — 2017-2018(current)

OROVILLE - STORAGE CONDITIONS AS OF MAY 22, 2018



Major Reservoir Current Conditions Graphs



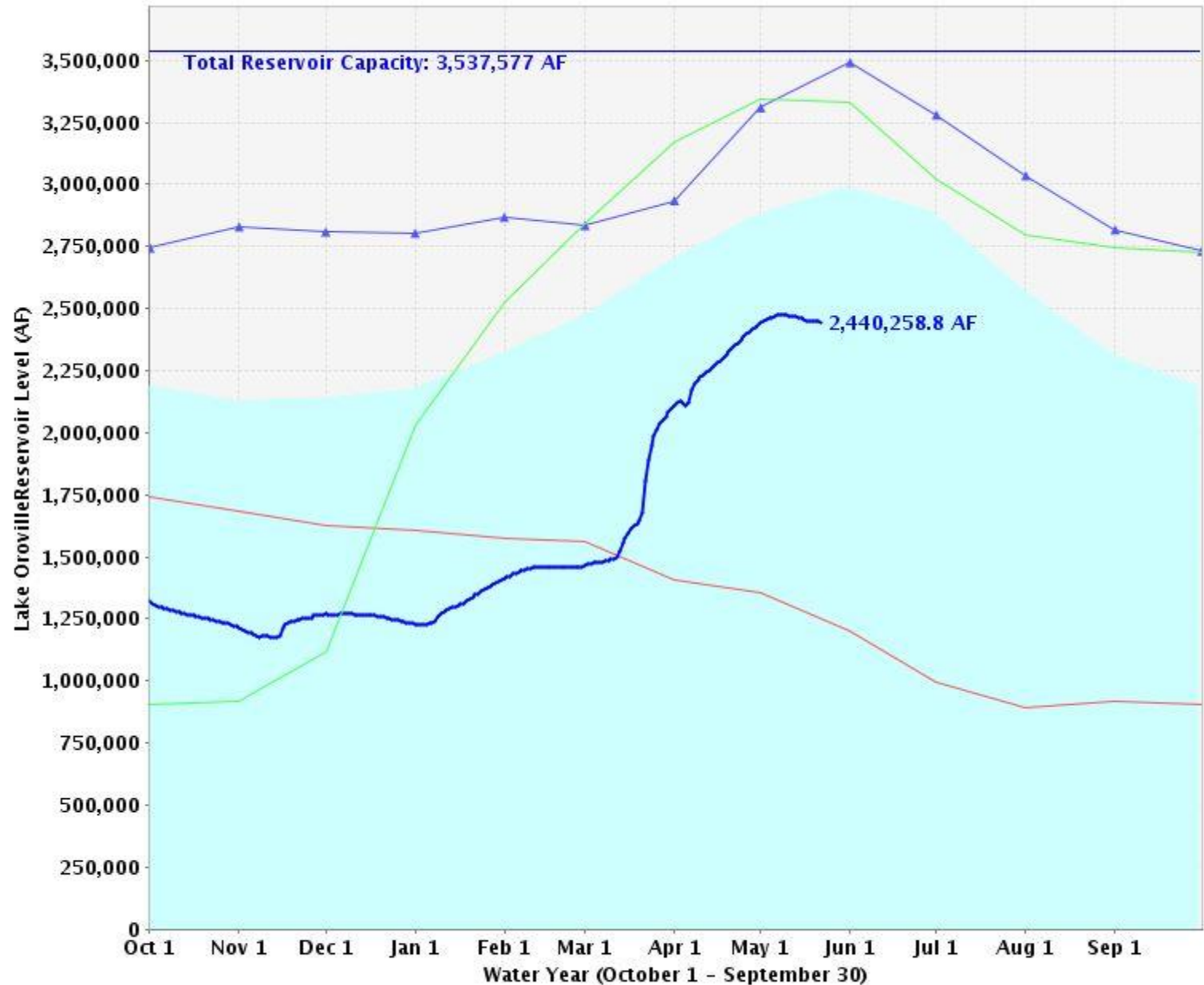
Data as of Midnight: May 22, 2018

- Current Storage: 2440258 AF
- 69% of Total Capacity
- 83% of Historical Avg. For This Date
- (Total Capacity: 3537577.0 AF)
- (Avg. Storage for May 22: 2957174.0 AF)

Change Date: 22-May-2018

Printable Version of Current Data

Lake Oroville Storage Levels

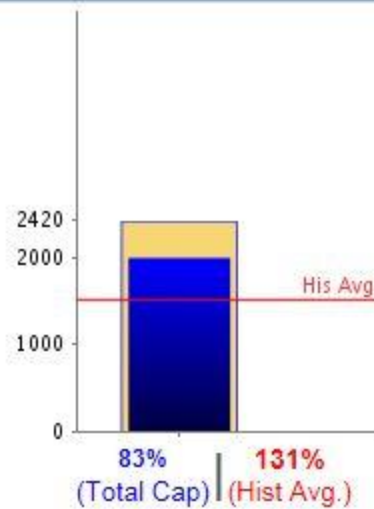


— Total Reservoir Capacity 3,537,577 AF
— 1976-1977 (dry)
— 1977-1978
▲ 1982-1983 (wet)
— 2017-2018 (current) 2,440,258.8 AF

MELONES - STORAGE CONDITIONS AS OF MAY 22, 2018



Major Reservoir Current Conditions Graphs



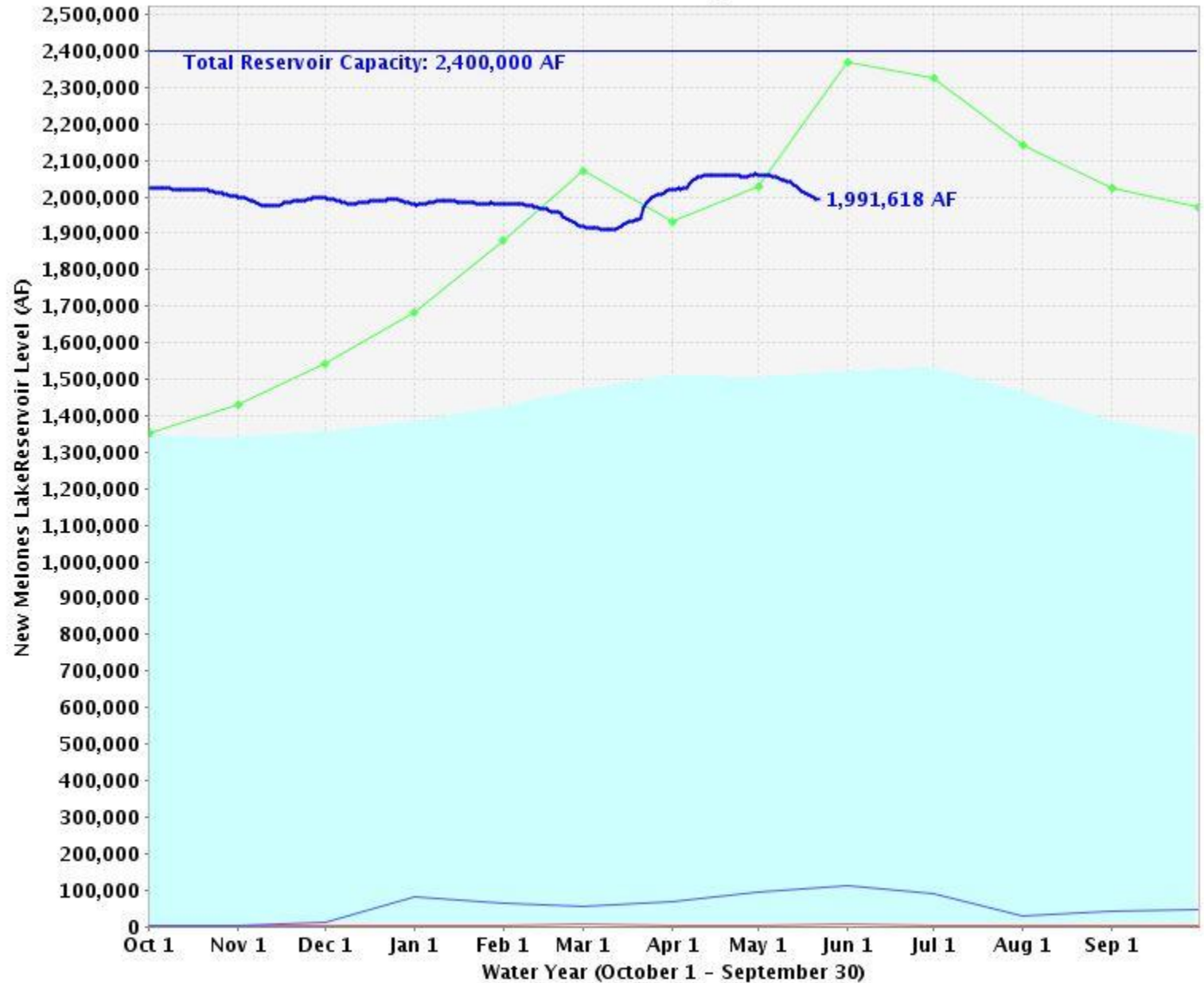
Data as of Midnight: May 22, 2018

- Current Storage: 1991618 AF
- 83% of Total Capacity
- 131% of Historical Avg. For This Date
- (Total Capacity: 2400000.0 AF)
- (Avg. Storage for May 22: 1515308.0 AF)

Change Date: 22-May-2018

[Printable Version of Current Data](#)

New Melones Lake Storage Levels

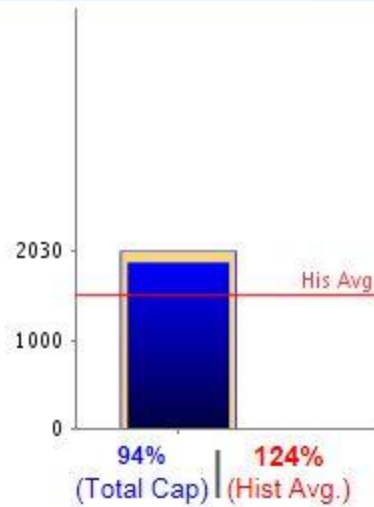


■ Historical Average
 — Total Reservoir Capacity
 — 1976-1977 (dry)
 — 1977-1978
 —●— 1982-1983 (wet)
 — 2017-2018 (current)

DON PEDRO - STORAGE CONDITIONS AS OF MAY 22, 2018



Major Reservoir Current Conditions Graphs



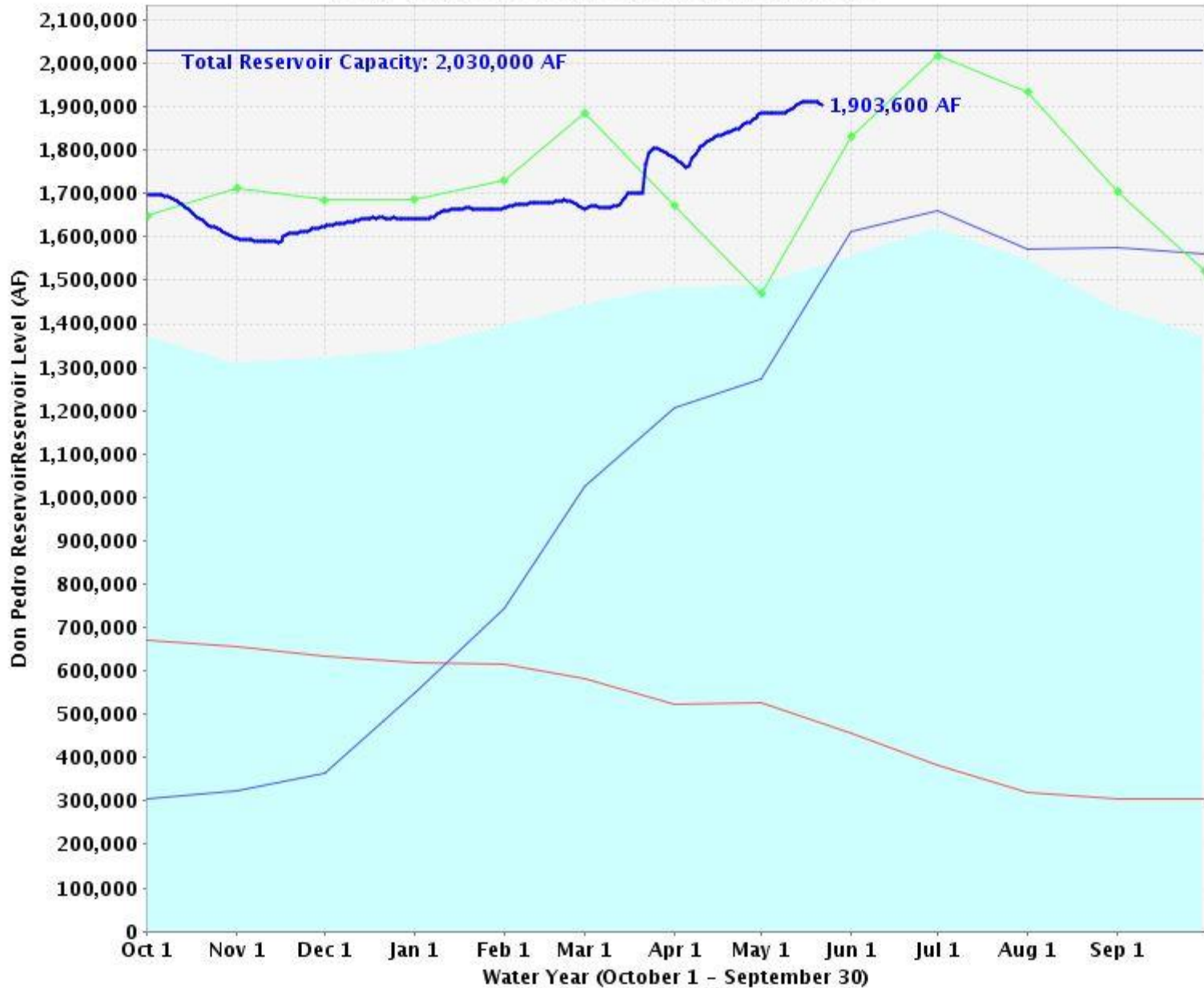
Data as of Midnight: May 22, 2018

- Current Storage: 1903600 AF
- 94% of Total Capacity
- 124% of Historical Avg. For This Date
- (Total Capacity: 2030000.0 AF)
- (Avg. Storage for May 22: 1533884.323 AF)

Change Date: 22-May-2018

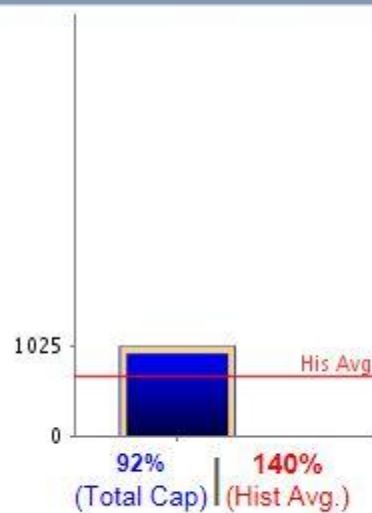
[Printable Version of Current Data](#)

Don Pedro Reservoir Storage Levels



— Total Reservoir Capacity — 1976-1977 (dry) — 1977-1978 — 1982-1983 (wet) — 2017-2018(current)

MCCLURE - STORAGE CONDITIONS AS OF MAY 22, 2018

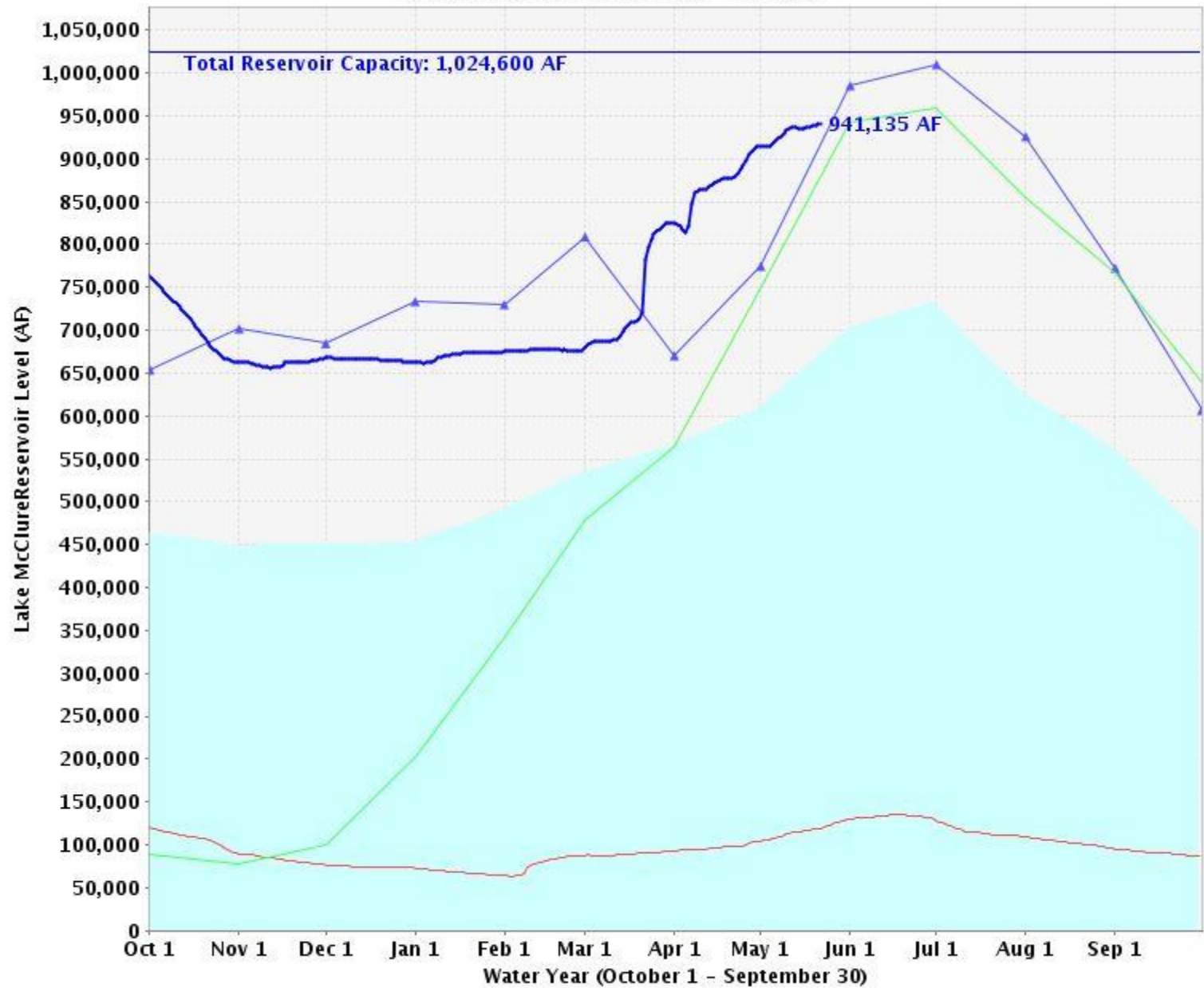


Data as of Midnight: May 22, 2018

- Current Storage: 941135 AF
- 92% of Total Capacity
- 140% of Historical Avg. For This Date
- (Total Capacity: 1024600.0 AF)
- (Avg. Storage for May 22: 673676.0 AF)

Change Date:

Lake McClure Storage Levels



Historical Average — Total Reservoir Capacity — 2014-2015 — 1982-1983 (wet) — 1977-1978
— 2017-2018(current)

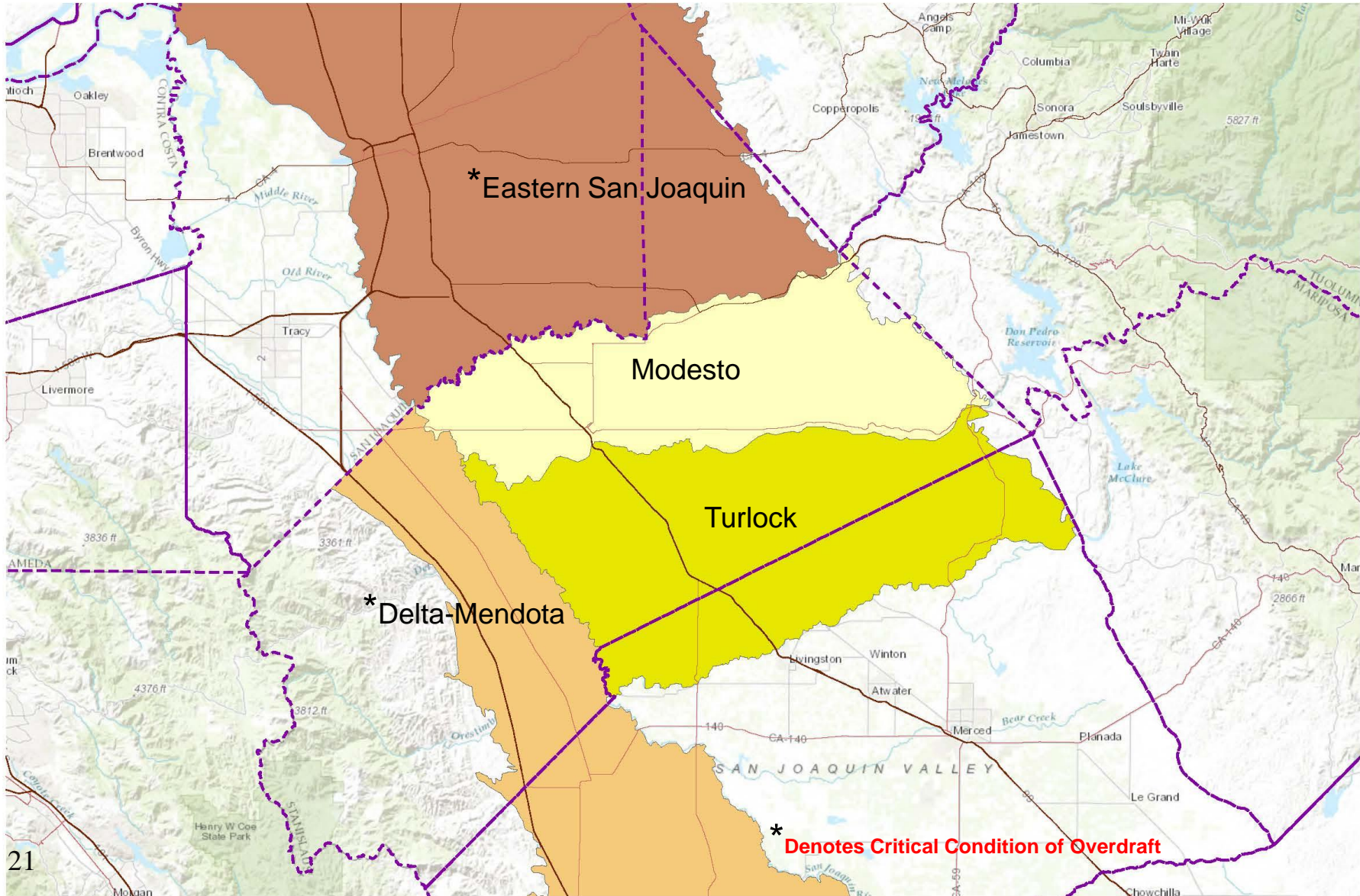
2018 Water Allocations

WEST		EAST	
Federal	45%	SSJID	100%
		OID	100%
State	35%	Mod ID	100%
		TID	100%
CCID	100%	Mer ID	100%

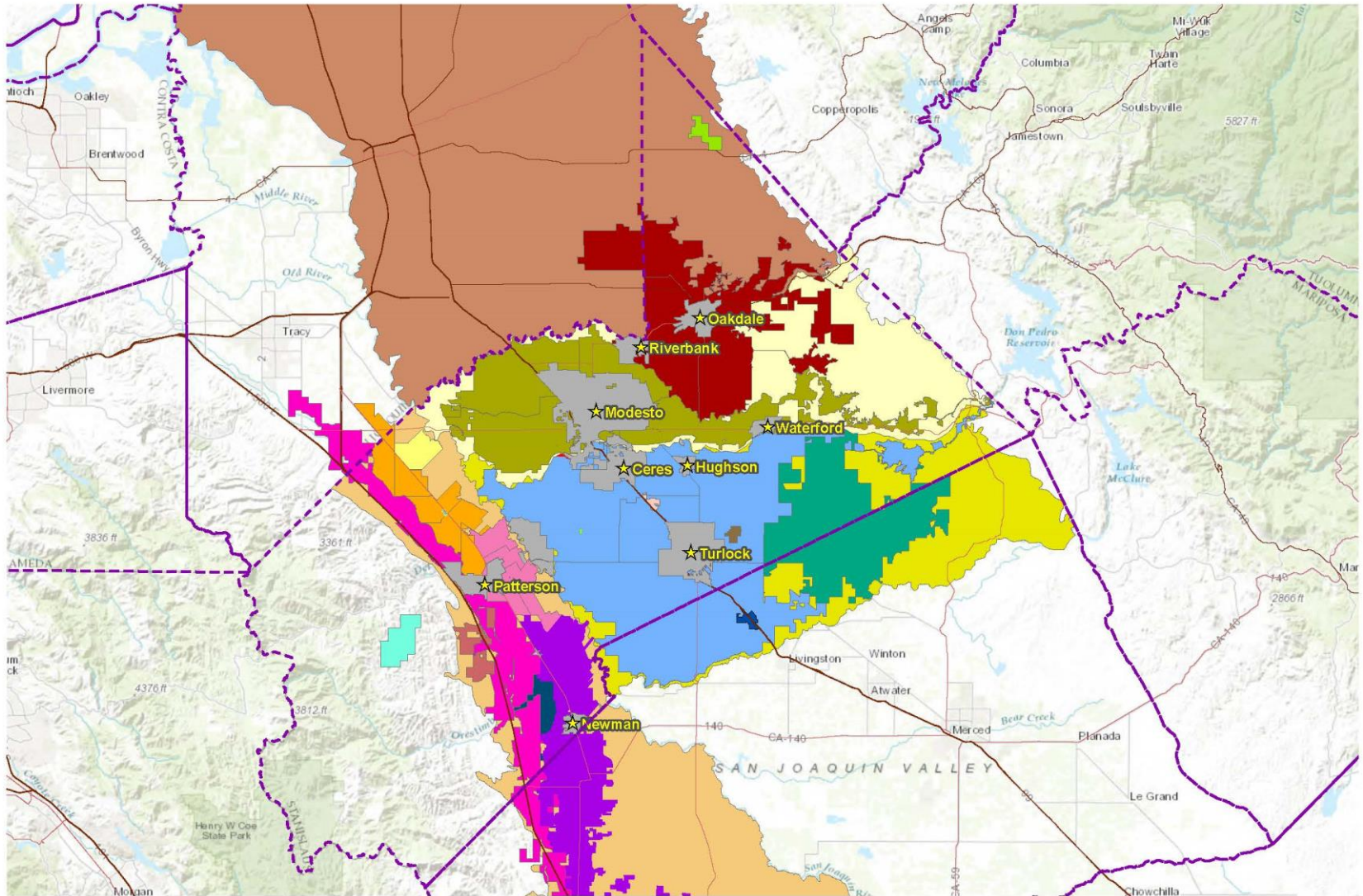
Questions & Discussion

Sustainable Groundwater Management Act Compliance

Stanislaus County Groundwater Basins



Stanislaus County Water Agencies

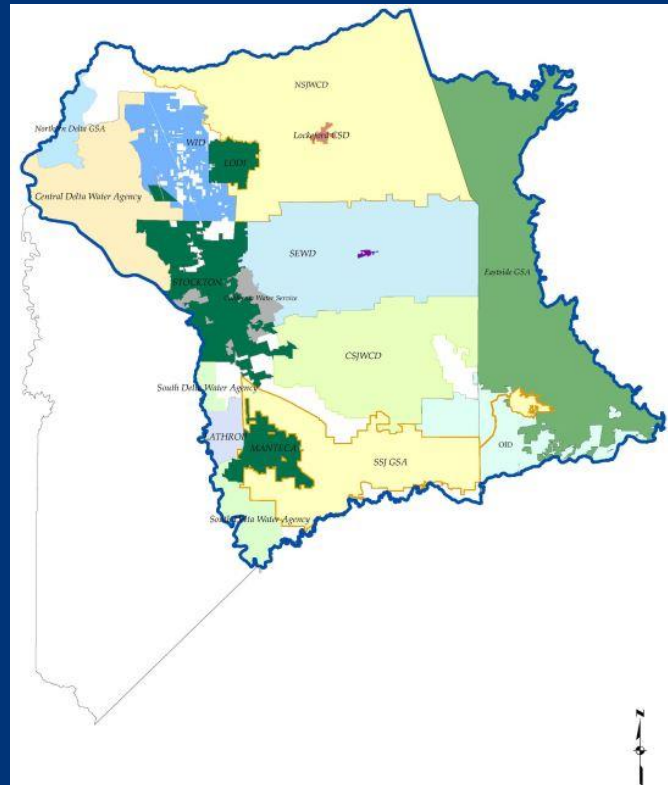




Layers Downloads Clear all

- Exclusive GSAs 4 ▼ ▶ ☰
- GSA Notice Submitted
- GSA Service Area 4 ▼ ▶ ☰
- Alternatives Submitted
- Exclusive Local Agencies (Water_Code_510723)
- Adjudicated Areas 4 ▼ ▶ ☰
- [Symbol]
- Counties 4 ▼ ▶ ☰
- [Symbol]
- Bulletin 118 Groundwater Basins (2016) 4 ▼ ▶ ☰
- Bulletin 118 Groundwater Basins
- CASGEM Basin Priorities High/Medium Only

Eastern San Joaquin Groundwater Basin



Eastern San Joaquin Subbasin GSAs

City of Lathrop

City of Lodi

City of Manteca

City of Stockton

Linden CWD

Stockton East WD

Central Delta Water Agency

South Delta Water Agency

Central San Joaquin Water Conservation District

North San Joaquin Water Conservation District

Eastside San Joaquin GSA

Oakdale ID

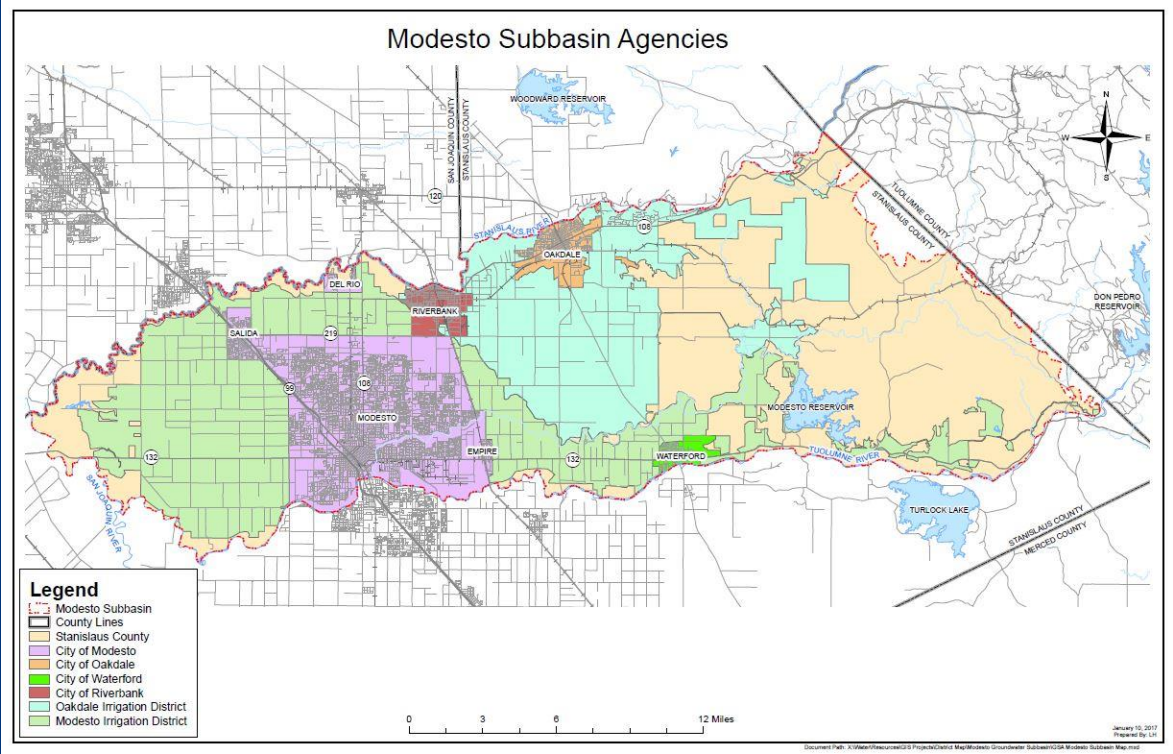
South San Joaquin ID

Woodbridge ID

Central Delta WD

Linden CWD

Modesto Groundwater Basin



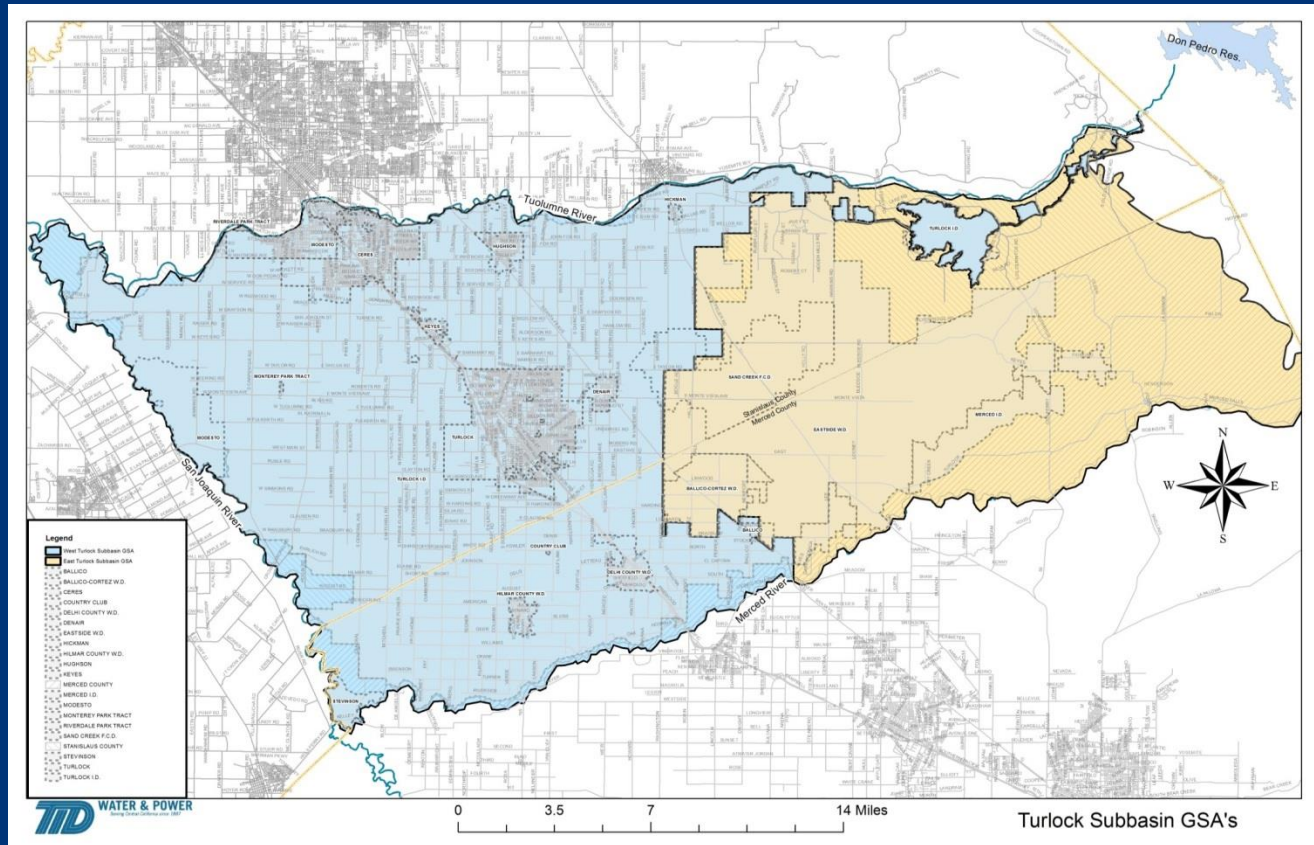
Stanislaus & Tuolumne Rivers Groundwater Basin Association GSA

City of Modesto
City of Oakdale
City of Riverbank
City of Waterford

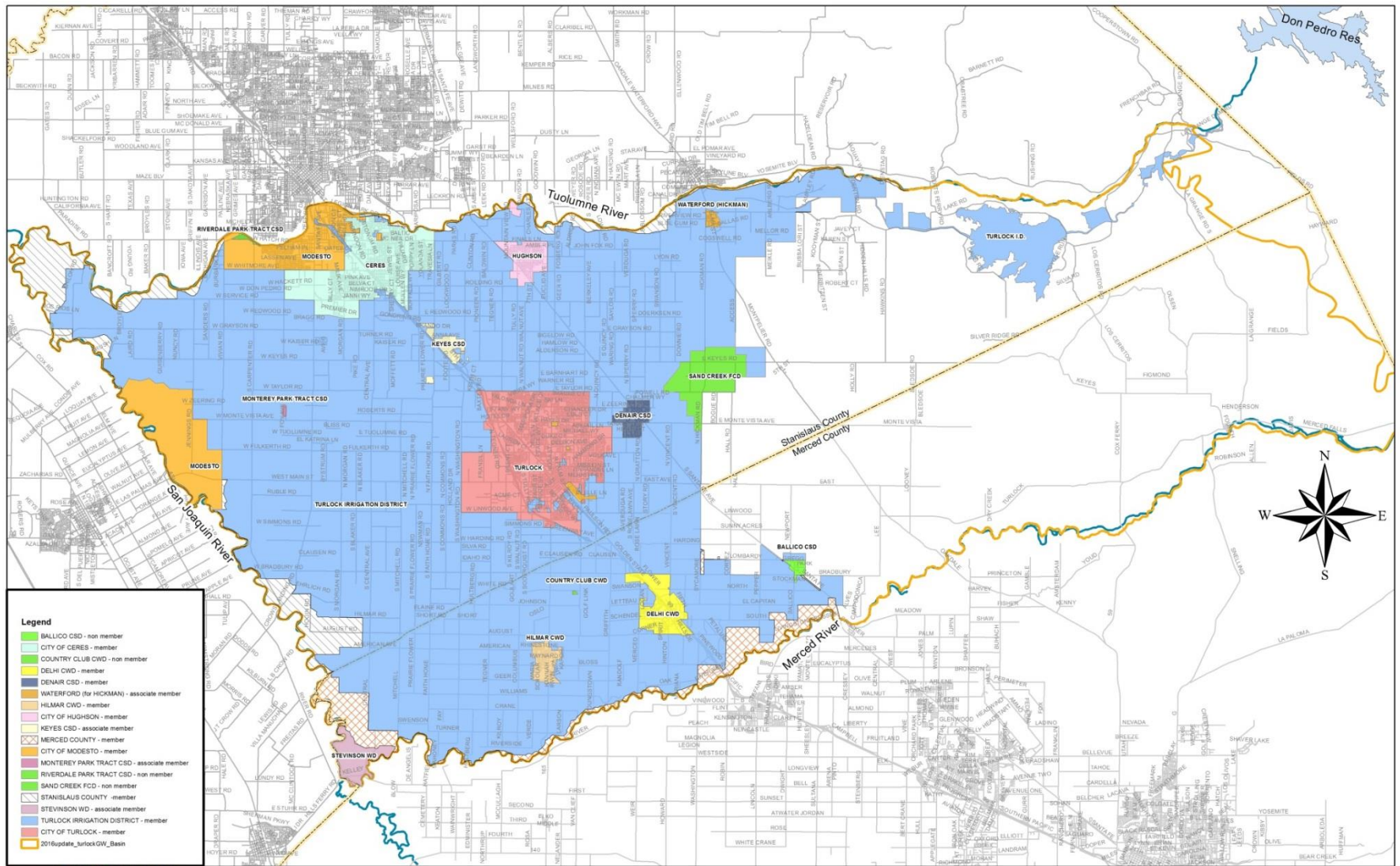
Oakdale ID
Modesto ID
Stanislaus County
*Tuolumne County**

*Formed separate GSA and
“linked” to STRGBA via separate
Cooperation Agreement with
Stanislaus County

Turlock Groundwater Basin



West Turlock Subbasin GSA



- Legend**
- BALICO CSD - non member
 - CITY OF CERES - member
 - COUNTRY CLUB CWD - non member
 - DELHI CWD - member
 - DENAIR CSD - member
 - WATERFORD (for HICKMAN) - associate member
 - HILMAR CWD - member
 - CITY OF HUGHSON - member
 - KEYES CSD - associate member
 - MERCED COUNTY - member
 - CITY OF MODESTO - member
 - MONTEREY PARK TRACT CSD - associate member
 - RIVERDALE PARK TRACT CSD - non member
 - SAND CREEK FCD - non member
 - STANISLAUS COUNTY - member
 - STEVINSON WD - associate member
 - TURLOCK IRRIGATION DISTRICT - member
 - CITY OF TURLOCK - member
 - 2016update_turlockGW_Basin



West Turlock Subbasin Agencies

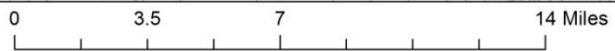


Exhibit B

West Turlock Subbasin GSA

City of Ceres

City of Hughson

City of Modesto

City of Turlock

Denair CSD

Turlock Irrigation District

Merced County

Stanislaus County

Delhi County Water District

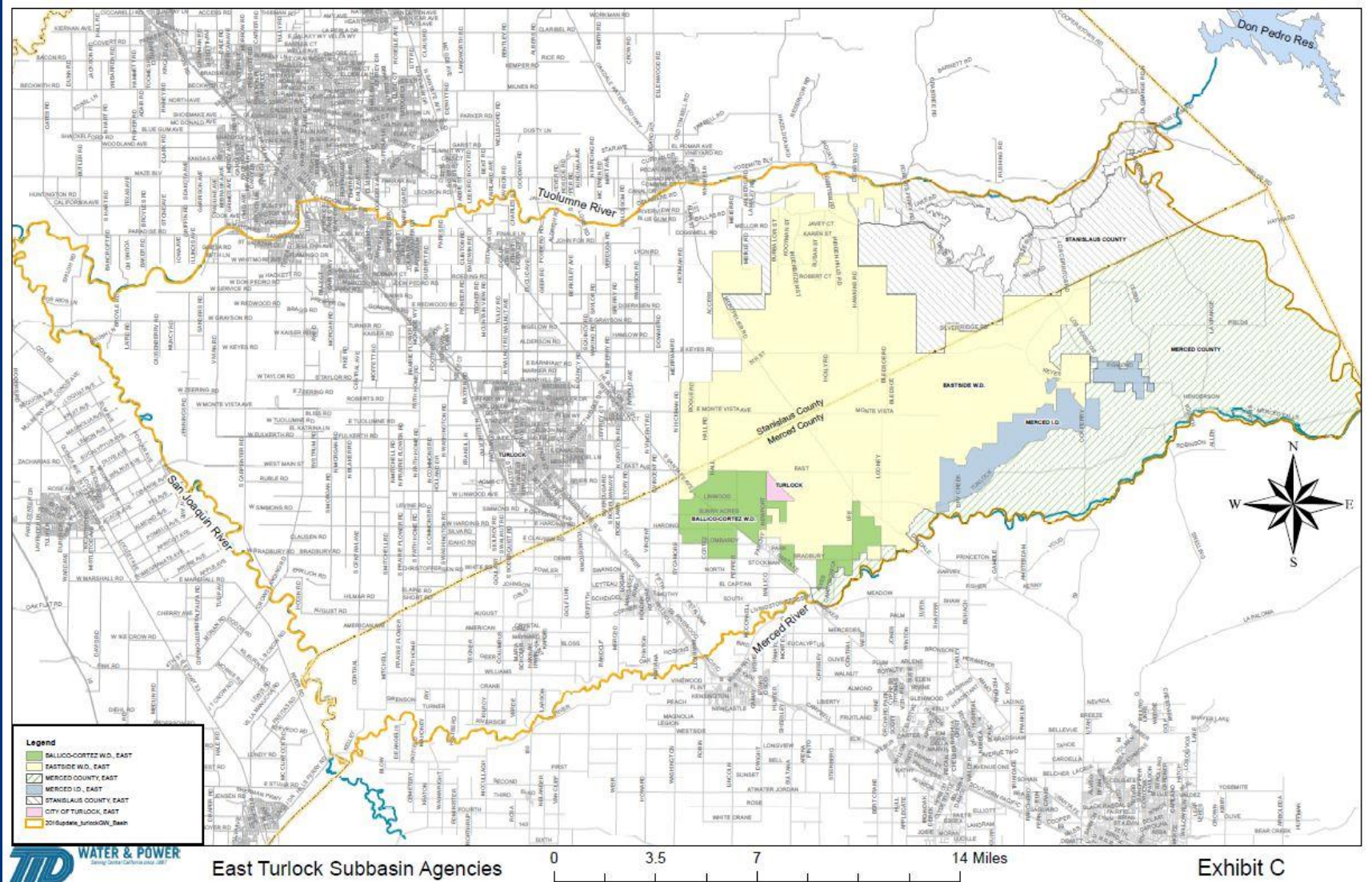
Hilmar County Water District

Associate Members:

Keyes CSD

City of Waterford

East Turlock Subbasin GSA



East Turlock Subbasin GSA

Eastside WD

Ballico-Cortez WD

Merced Irrigation District

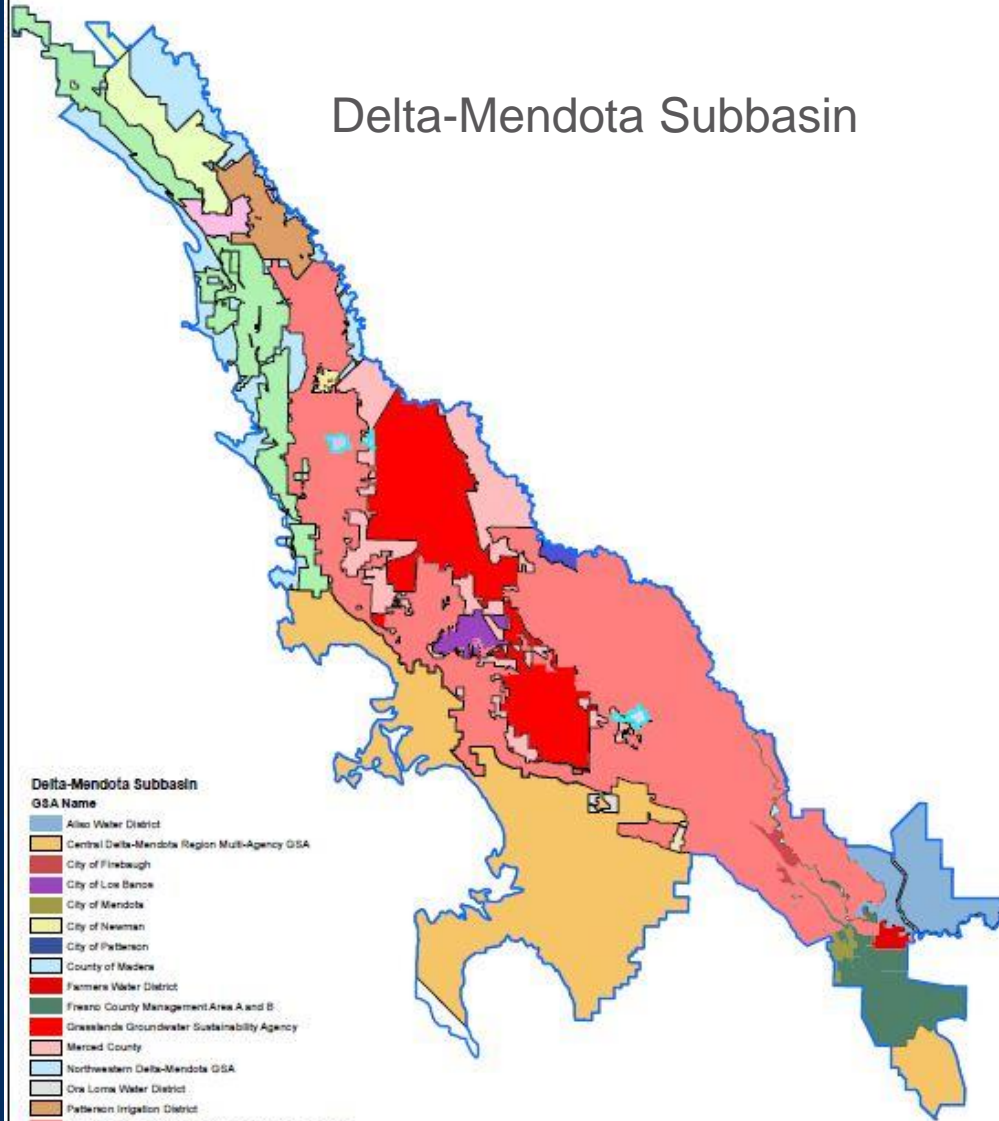
Merced County

Stanislaus County

City of Turlock *

* Associate Member

Delta-Mendota Subbasin

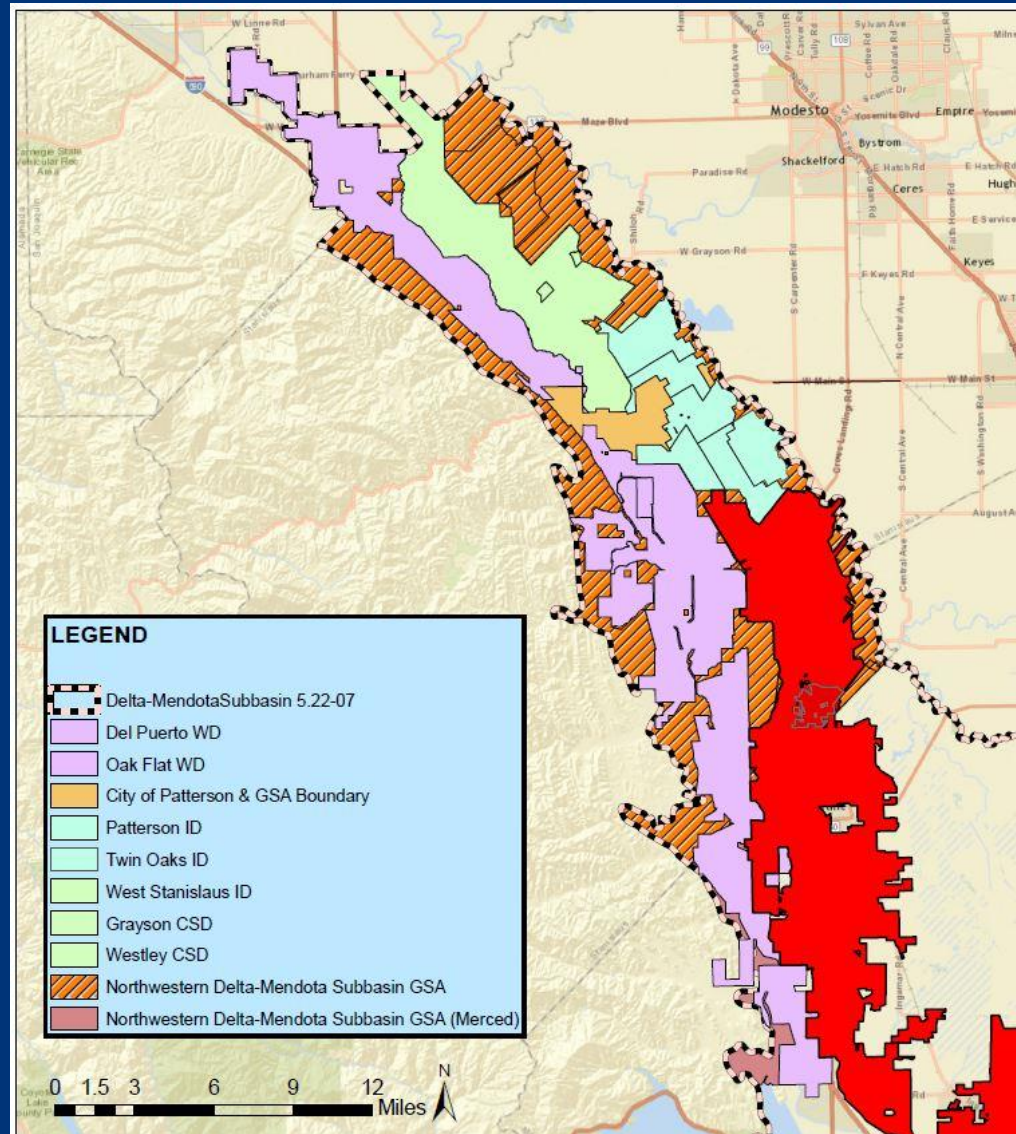


Delta-Mendota Subbasin

GSA Name

- Aliso Water District
- Central Delta-Mendota Region Multi-Agency GSA
- City of Firebaugh
- City of Los Banos
- City of Mendota
- City of Newman
- City of Patterson
- County of Merced
- Farmers Water District
- Fresno County Management Area A and B
- Grasslands Groundwater Sustainability Agency
- Merced County
- Northwestern Delta-Mendota GSA
- Ora Loma Water District
- Patterson Irrigation District
- San Joaquin River Exchange Contractors Water Authority
- Turner Island Water District
- West Stanislaus Irrigation District 1 and 2
- Widoin Water District GSA
- DMII GSA
- City of Dos Palos
- City of Gustine
- City of Patterson

Delta-Mendota Subbasin –Northern Group



Delta-Mendota Groundwater Basin – Northern Group GSAs

City of Patterson

Del Puerto WD

West Stanislaus ID

Patterson ID

Northwestern Delta-Mendota GSA

Groundwater Sustainability Plans

50 Year Planning Horizon

- Land Use & Water Demand Nexus

Basins in Critical Condition of Overdraft

- January 31, 2020
- 20 Year Implementation Period (January 2040)

High & Medium Priority Basins

- January 31, 2022
- 20 Year Implementation Period (January 2042)



Critically Overdrafted Basins

Basin Number	Basin/Subbasin Name
North Central Region	
5-22.01	Eastern San Joaquin
South Central Region	
3-01	Soquel Valley
3-02	Pajaro Valley
3-04.01	180/400 Foot Aquifer
3-04.06	Paso Robles Area
3-08	Los Osos Valley
3-13	Cuyama Valley
5-22.04	Merced
5-22.05	Chowchilla
5-22.06	Madera
5-22.07	Delta-Mendota
5-22.08	Kings
5-22.09	Westside
5-22.11	Kaweah
5-22.12	Tulare Lake
5-22.13	Tule
5-22.14	Kern County

Total number of Basins/subbasins: 17
 January 1, 2016



North Central Region Office
 South Central Region Office

Groundwater Sustainability Plans – Grant Funding

Basins in Critical Condition of Overdraft (\$1.5 M cap)

High & Medium Priority Basins (\$1 M cap)

Require up to 50% Local Cost Share

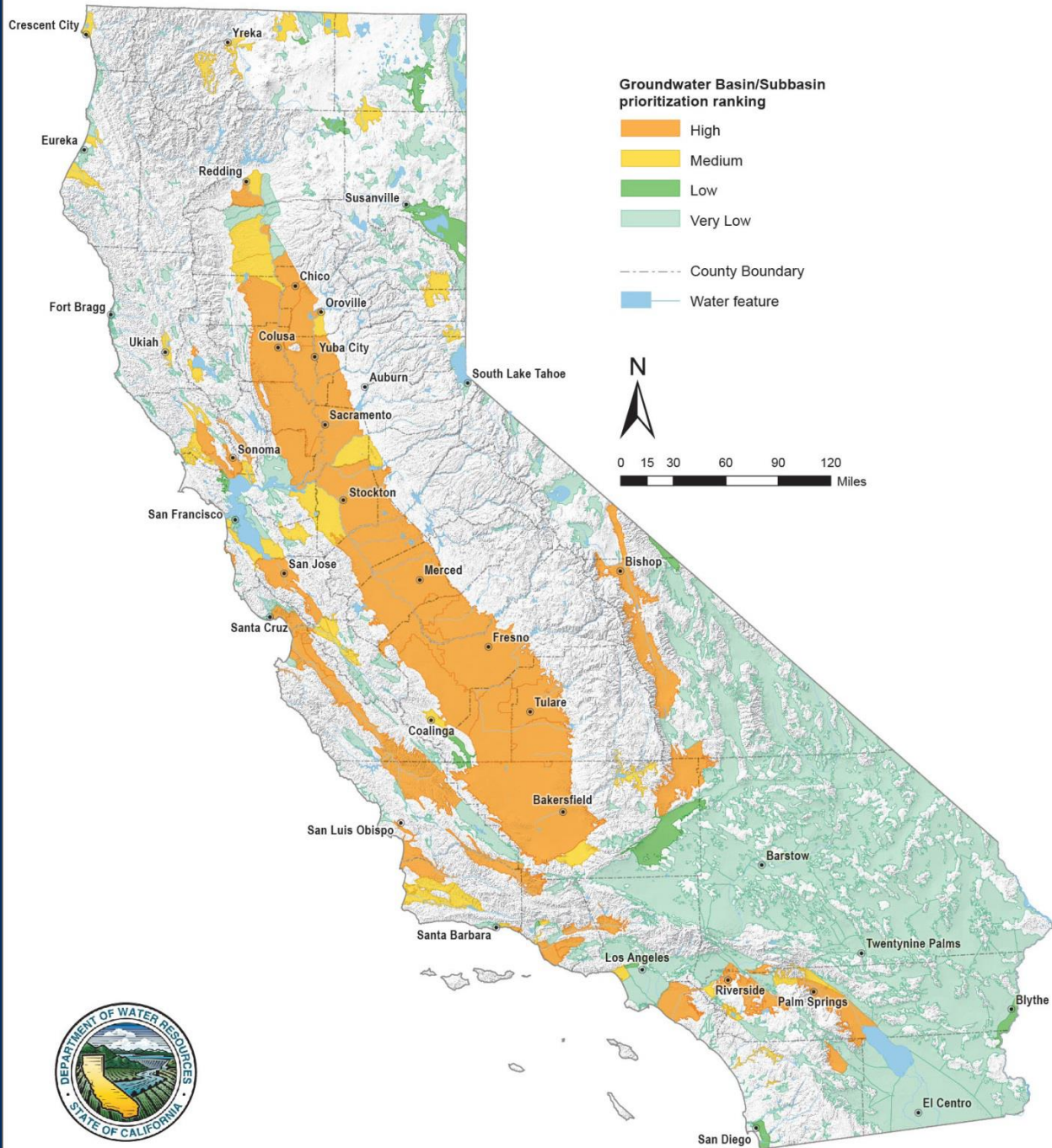
- Cost offsets may include Disadvantaged Communities
- Local relevant SGMA activities (since January 1, 2015)

78 applications (Category 1 & 2)

\$86.4 M requested out of \$86.3 M available (\$100,000)

Notice of Award in February

Bulletin
118
Update -
Basin
Boundary
Adjustment



Groundwater Sustainability Plans – Next Steps

Data Compilation

Database Review & Selection

Public Outreach Workshops

Coordination Agreements

Cost-Share Agreements

Developing Local Funding Mechanisms

Technical Assistance – Monitor well installation

Facilitation Assistance

Questions & Discussion

State Water Board Instream Flow
Proposal as an Element of the
San Joaquin Basin Plan
Amendment (SED)

Questions & Discussion

Programmatic Environmental Impact Report Pertaining to the Stanislaus County Groundwater Ordinance

Purpose of PEIR

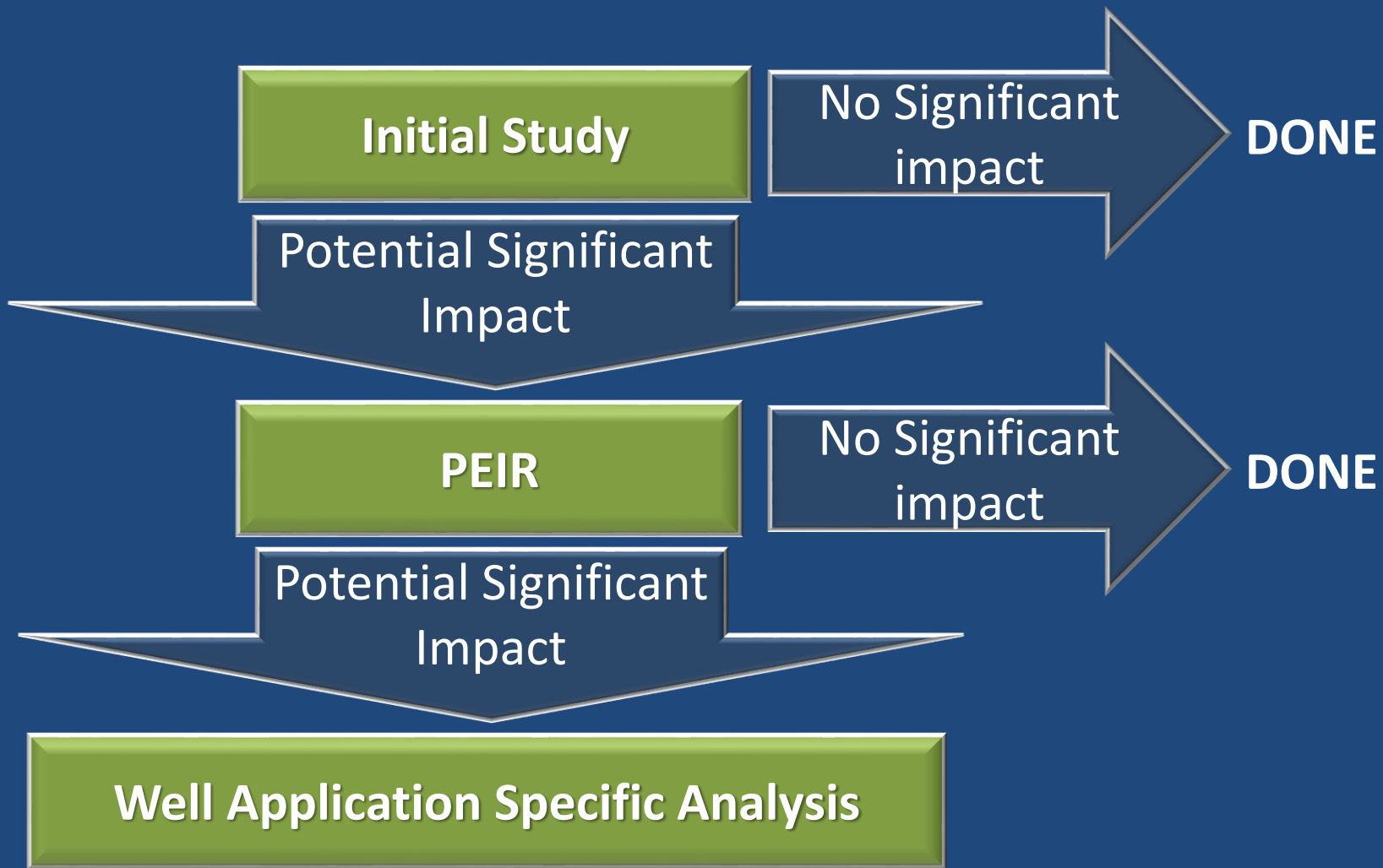
- ✓ Streamline the Well Permit Application Process
- ✓ Provide a robust technical basis for Groundwater Ordinance implementation
- ✓ Provide data to help facilitate future groundwater sustainability planning (SGMA)

Status

- ✓ Public Draft PEIR Comment Period:
45 day period closed May 7, 2018
- ✓ No comments were received
- ✓ PEIR is being finalized and scheduled to
be adopted and certified by the Board of
Supervisors in late June

PEIR Findings

- Evaluated 17 resource areas as required by CEQA.
- For most resource areas, no significant impacts.
- Where significant impacts can't be ruled out at program level, recommend mitigation measures



Evaluations Included in PEIR

**PEIR evaluated 11 resource areas,
mitigation recommended for 4:**

Aesthetics	Mineral Resources	Population & Housing	Public Services	Recreation
Transportation & Traffic	Greenhouse Gas Emissions	Air Quality	Biological Resources	Cultural Resources
Geology & Soils	Hazards & Hazardous Materials		Hydrology & Water Quality	Land Use & Planning
Noise	Utilities & Service Systems		Agriculture & Forestry Resources	

PEIR – Specific Findings

- Groundwater Drawdown and Storage Depletion
- Surface Water Resources
- Subsidence
- Biological Resources
- Cultural Resources
- Noise

Lessons Learned from the PEIR

- Significant impacts are NOT expected if permitting requirements and mitigation measures are adopted
- Well permitting program can be refined to ease burden on areas/wells with little potential for significant impacts
- Rate of groundwater demand growth in east foothills experienced from 2000 to 2015 is not sustainable in the future
- Reasonable groundwater demand growth can be met through integrated water management approach (conjunctive use)

Future Steps

- Streamline Permitting Program
 - Develop flowchart that identifies requirements for different well types and locations
 - Checklist to document compliance
- Establish “Groundwater Level Management Zones”
 - Evaluation methodology developed for Northern Triangle (“chronic lowering of groundwater levels” in Valley Home area)
 - Based on comparing total predicted drawdown over the SGMA implementation horizon, if current groundwater management trends continue, to drawdown significance thresholds (10% “impact” criterion)
 - Very few are expected to be at issue

Available Resources

- Model files compiled and available for use
- Reference library available for download
 - <http://files.jacobsonjames.com>
Login: StanCoL
Password: LibraryJJA9083!

Questions & Discussion