



Cal OES Disaster Logistics Section (CA-ESF 7 Partner)

Logistics Management

Date: November 09, 2023

Structure

Logistics Management

Disaster Logistics Section Program Manager III

External (Field)
Program
Manager II

Team 2

- Manager
- 2 Sr. ESCs

Team 1

- 3 ESCs
- 1 AGPA

- Manager
- 2 Sr. ESCs
- 2 ESCs
- 1 AGPA

Internal (Warehouse) Program Manager II

NORCAL

- Manager
- 2 AGPAs
- 2 Warehouse Workers
- 2 SSAs
- 1 Warehouse Manager
- 1 Material/ Stores Specialist

SOCAL

- Manager
- 2 AGPAs
- 2 Warehouse Workers
- 1 SSA
- 1 Warehouse Manager





Mission

Supporting the Cal OES mission by providing logistical services during all five phases of emergency management.

Vision

Building the State's Disaster Logistics capabilities through effective collaboration and unity of effort.





Current Stats

- ▶ 35 Employees
 - Certified in various forklifts, pallet movers, and other heavy equipment
 - Credentialed in Logistics from CSTI
- ▶ 12 Fleet Vehicles (SUVs and Pickups with Code 3 Packages)
- 2 Box Trucks
- 1 Mission Command Vehicle
- 2 Warehouses (NorCal/SoCal)
- ▶ 10 Towable Generators (110kW to 325kW
- ▶ 11 Towable Light Towers





Growth Over The Last 3 Years

- Increased staffing by 240%
- Added over 600,000 square feet of office and warehousing space
- Increased the fleet of equipment by adding
 - 16 53' trailers (eight are in process),
 - 11 towable generators
 - 11 additional vehicles (in process)
 - 9 towable light towers.





What do we do?

- Deployment, management, and recovery of Logistics Staging Areas (LSA) and Basecamps
- Local/Field Disaster Logistics Liaison Support
 - Deployment, support, and recovery of Base Camps, Joint Field Office(s) (JFO),
 and Area Field Office(s) (AFO)
- Commodity management, distribution, and recovery
- Warehousing and inventory management of equipment and commodities
- Transportation of equipment and commodities





Mission Sets

- Logistics Support to Evacuations and Isolated Communities
- Public Safety Power Shutoff Support
- All Hazard Commodities (Sheltering, Food, Water, Fuels)
- Medical PPE and Materials Stockpile Distribution
- Warehouse and Supply Point Distribution
- Logistics Staging Areas
- Commodity Points of Distributions
- Basecamps
- JFO/AFO Logistics Liaison
- Regional and County EOC Logistics Liaison





The Future of Disaster Logistics

- In development of a statewide disaster logistician curriculum (coming in 2024)
- Opening a new warehouse in SoCal to replace the existing one
- Hiring warehouse positions
- Participation in Port and Rail logistics exercises to build capability
- Finalizing our 5-year Strategic Plan
- Prepping for the next disaster!





Questions or Comments?

Nick Murray, Program Manager I Disaster Logistics Team 2 (Field) (916) 845-8753 | <u>Nick.Murray@CalOES.ca.gov</u>



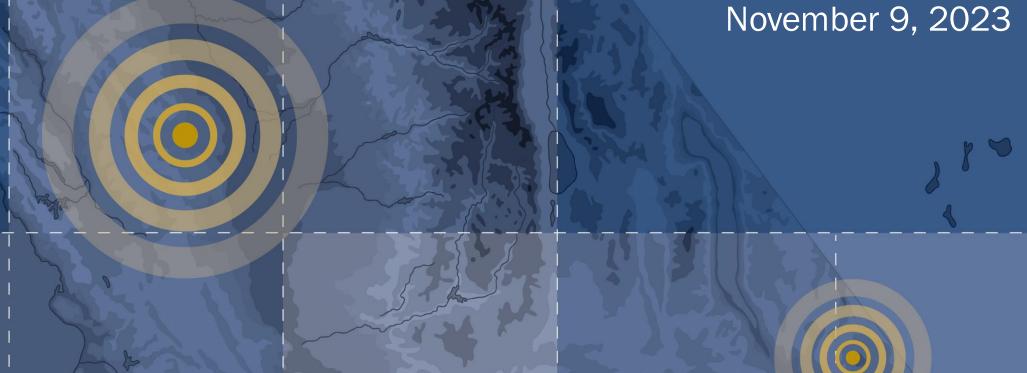


EARTHQUAKE WARNING CALIFORNIA









EARTHQUAKE EARLY WARNING

- MANAGED BY CAL OES, EARTHQUAKE EARLY WARNING USES GROUND MOTION SENSORS
 STATEWIDE TO DETECT EARTHQUAKES BEFORE HUMANS CAN FEEL THEM AND CAN NOTIFY
 CALIFORNIANS TO "DROP, COVER AND HOLD ON" IN ADVANCE OF AN EARTHQUAKE.
- CRUCIAL SECONDS TO TAKE COVER BEFORE SHAKING IS FELT: 70% OF CALIFORNIANS ARE AT RISK OF STRONG GROUND SHAKING.
- EEW SEISMIC NETWORK STATIONS ARE 100% FUNDED, WITH 962 OUT OF 1,115 STATIONS BUILT.
- SUCCESS STORIES: MENLO FIRE DISTRICT | MYSHAKE | BART | SCHOOLS









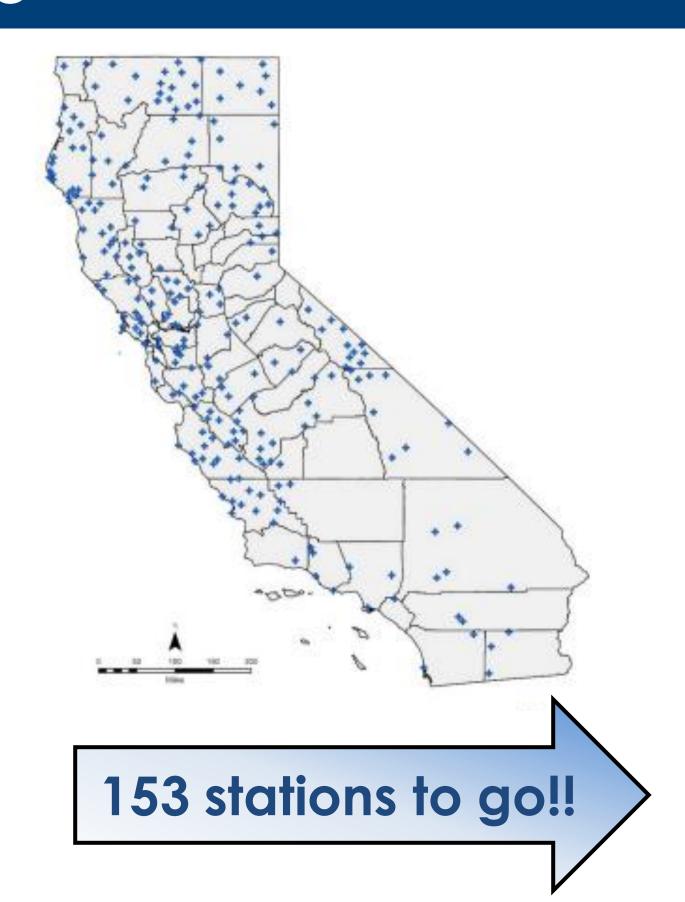




CEEWS NETWORK GOAL OF 1,115 STATIONS OCTOBER 2023

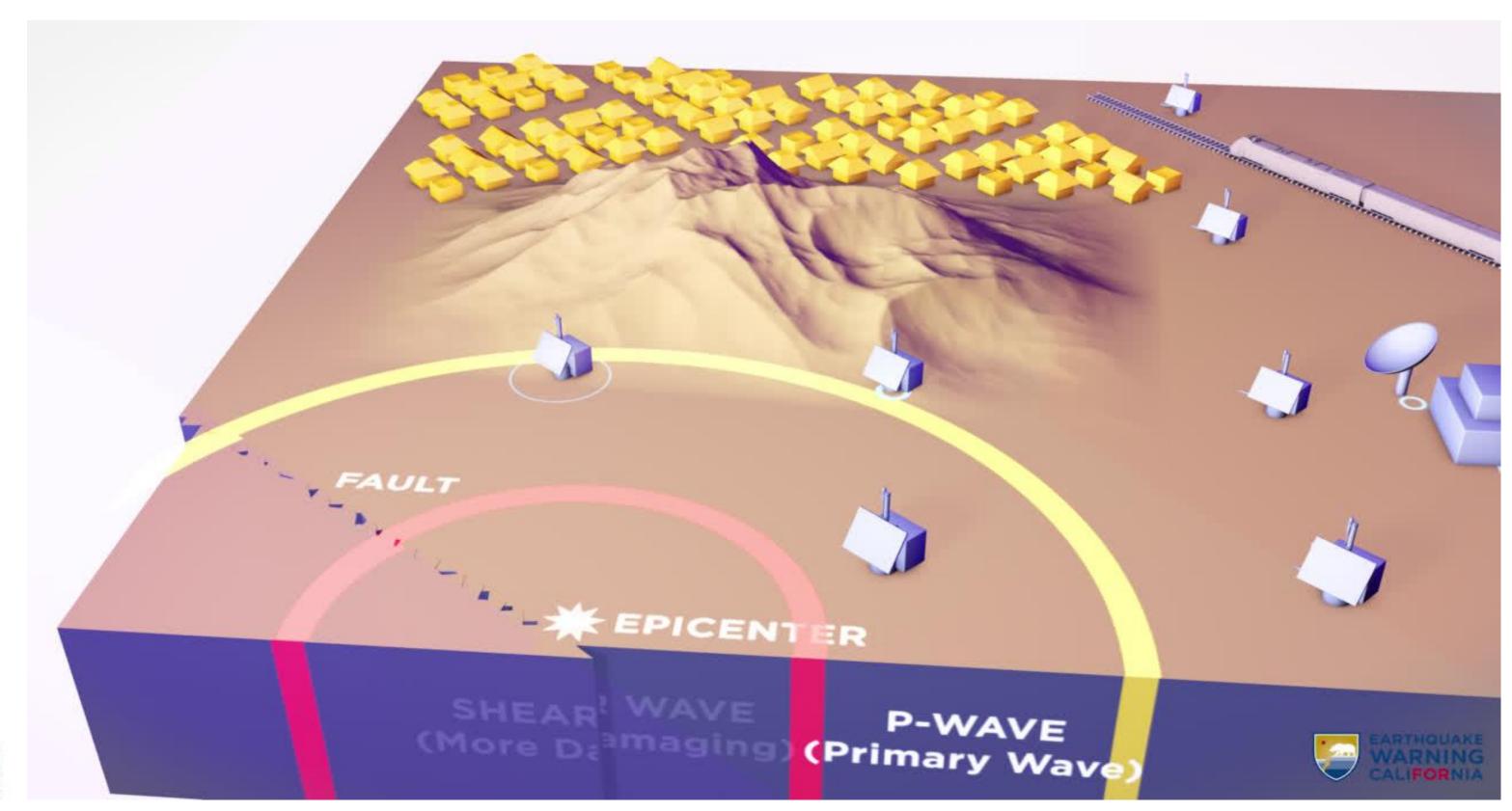


962 stations in CA contributing to ShakeAlert





HOW IT WORKS





RECENT SUCCESSES OF CEEWS

- SAN JOSE EARTHQUAKE OCTOBER 25, 2022
 - 95,272 MYSHAKE DEVICES ALERTED
 - MYSHAKE BECAME THE #1 EDUCATION APP IN THE APPLE STORE
 - 108,000+ APP DOWNLOADS MYSHAKE APP DOWNLOADS
- FERNDALE EARTHQUAKE DECEMBER 20, 2022
 - 4.1 BILLION IN AUDIENCE REACH
 - 124,000+ MYSHAKE APP DOWNLOADS
- LAKE ALMANOR EARTHQUAKE MAY 12, 2023
 - 81.33 MILLION IN AUDIENCE REACH
 - 16,789 IN MYSHAKE APP DOWNLOADS
- OJAI EARTHQUAKE AUGUST 20, 2023
 - 194,000 DEVICES RECEIVED MYSHAKE ALERT
 - 40,000 IN MYSHAKE APP DOWNLOADS





RAPID RESPONSE/AUTOMATED ACTIONS

- EEW PROTOCOLS INSTALLED IN PUBLIC SAFETY FACILITIES SUCH AS EMERGENCY OPERATIONS CENTERS (EOCS) OR FIRE STATIONS CAN REDUCE PROPERTY DAMAGE AND QUICKLY RESTORE OPERATIONS, AND FIRST RESPONDER SAFETY.
- EEW TECHNOLOGY COULD, FOR EXAMPLE, REDUCE THE POTENTIAL FOR HAZMAT AND FIRE ISSUES, AS WELL AS IMPROVE COMMUNICATIONS FOLLOWING AN EARTHQUAKE.
- EEW PROTOCOLS MAY STOP ELEVATORS AND ESCALATORS TO HELP REDUCE THE LIKELIHOOD OF ENTRAPMENT.



EEW AUTOMATED ACTIONS



Time Savings. First responders can react quicker if EEW automated actions are in place.



Warning Alarm. EEW alert activates warning alarm to personnel allowing for protections actions such as Drop, Cover and Hold On and/or avoiding dangerous areas and situations.



Generators and Back-Up Power.Activate back-up power generation during power failure.



Water Control. Automated and manual selected water supply shut-



Automatic Shut-Off. Gas valve controls/shut-off.

THE FUTURE OF EEW

- CAL OES EARTHQUAKE EARLY WARNING PROGRAM IS CONTINUOUSLY RESEARCHING, LEARNING, AND DEVELOPING NEW WAYS TO IMPROVE THE SAFETY OF CALIFORNIA RESIDENTS AND VISITORS BEFORE DISASTER STRIKES.
- FIRE STATION PILOT PROJECT
- SAN JOSE EARTHQUAKES + LARGE PUBLIC VENUES
- NETFLIX + GOOGLE

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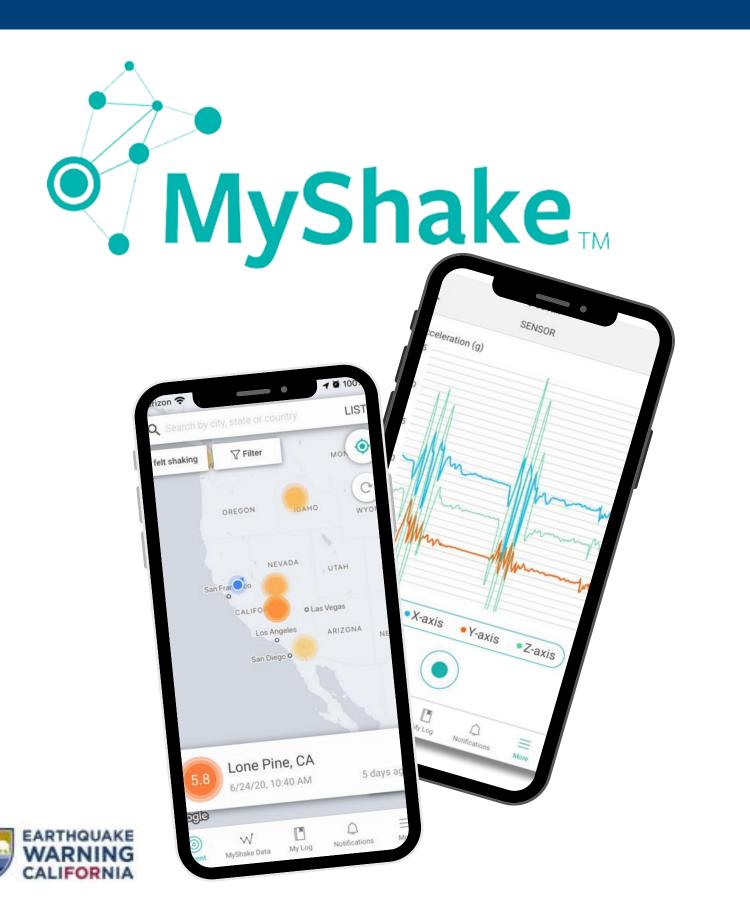
Water Control. Automated and manual selected water supply shutoff.



Automatic Shut-Off. Gas valve controls/shut-off.



MYSHAKE APP



- DEVELOPED IN PARTNERSHIP WITH THE UC BERKELEY SEISMOLOGY LAB
- MYSHAKE APP HAS BEEN A MAJOR SUCCESS IN CALIFORNIA WITH MORE THAN 2.9 MILLION DOWNLOADS. GOAL IS 4 MILLION BY 2026.
- APP PROVIDES ALERTS OF INCOMING GROUND SHAKING AND PROTECTIVE ACTIONS, AS WELL AS TSUNAMI PREPAREDNESS INFORMATION.
- CHROMEBOOK APPLICATION COMING SOON.

WHAT CAN YOU DO



First responders may choose to implement customized warning applications and protocols to protect people. assets, or functions in their own organizations and

These notifications could provide life-saving seconds of warning and allow to take protective actions in advance of shaking from a significant and potentially damaging earthquake.

Earthquake Early Warning (EEW) may reduce death and injuries as well as preserve valuable inventory such as medication, medical supplies, and equipment. Predetermined protocols and equipment may, for example, reduce the potential for hazmat and fire issues, as well as improve communications following an earthquake.

Of course, the availability of hospitals and other emergency medical facilities is vital in the wake of a natural disaster. By reducing damage to facilities and more quickly restoring their operations, first responders may respond to emergencies more effectively.

EEW AUTOMATED ACTIONS



Warning Alarm. EEW alert activates warning alarm to staff, building, and/or facility occupants and visitors, allowing for protective actions such as Drop, Cover, and Hold On and/or avoiding dangerous areas and situations.



Elevators and Escalators. Elevator recall and escalator stops help reduce likelihood of entrapment.

Automatic Adjustment and Shut-Off. Automated adjustment of gas valves (includes shut-off prior to shaking). Gas flow stopped at specific building sites.



Water Control. Automated and manual selected water supply shut-



Back-Up Power and Power

Safety. Activate back-up power generation during power failure for critical medical equipment. Automated and manual selected power safety power supply shut-

BENEFITS AND OUTCOMES

GOALS AND FOCUS AREAS

- Expand partnerships: engage community-based organizations, nongovernmental organizations, Industry Associations/Sectors, as well as federal, state, tribal, local organizations, and agencies.
- Work with entities and potential partners, in collaboration with USGS, throughout the ShakeAlert Pilot License Agreement (PLA) and License-t Operate (LtO) partner processes to deploy EEW automations throughout



- DOWNLOAD THE MYSHAKE APP ON PERSONAL AND WORK PHONES.
- DISCUSS IMPLEMENTATION OF EEW TECHNOLOGY WITH YOUR GOVERNING BODY.
- TALK TO YOUR STAKEHOLDERS ABOUT WHAT EEW CAN DO FOR THEM.
- VISIT EARTHQUAKE.CA.GOV TO DOWNLOAD MATERIALS.
- UTILIZE CAL OES TOOLKIT.
- SHARE AUTOMATED ACTIONS FACT SHEET.



FUNDING OPPORTUNITIES FOR EEW

- EEW is now an eligible activity under the Building Resilient Infrastructure and Communities (BRIC) and the Hazard Mitigation Grant Program (HMGP)
- The Federal Emergency Management Agency (FEMA) will now consider proposals to fund the purchase and installation of:
 - Seismometers
 - Global Positioning System (GPS) receivers
 - Associated infrastructure
- FEMA will NOT fund:
 - Operations or maintenance costs
 - Ongoing maintenance or subscription fees





CONTACT US

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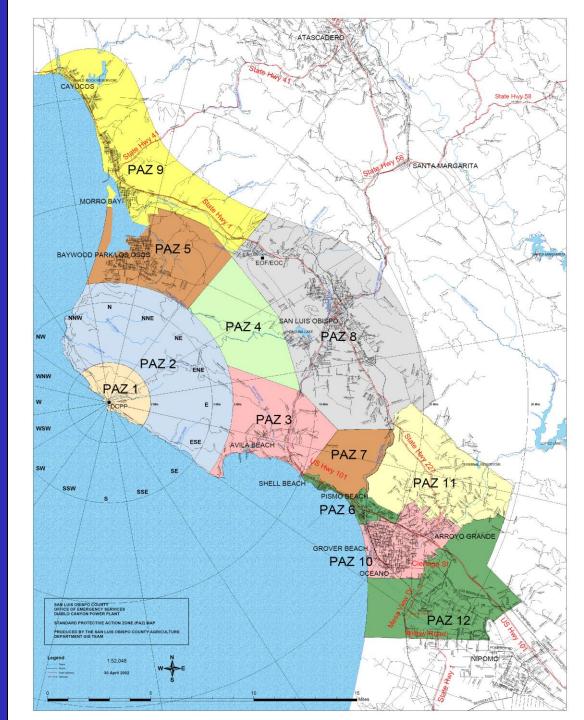


2024 Diablo Canyon Power Plant Ingestion Pathway Exercise

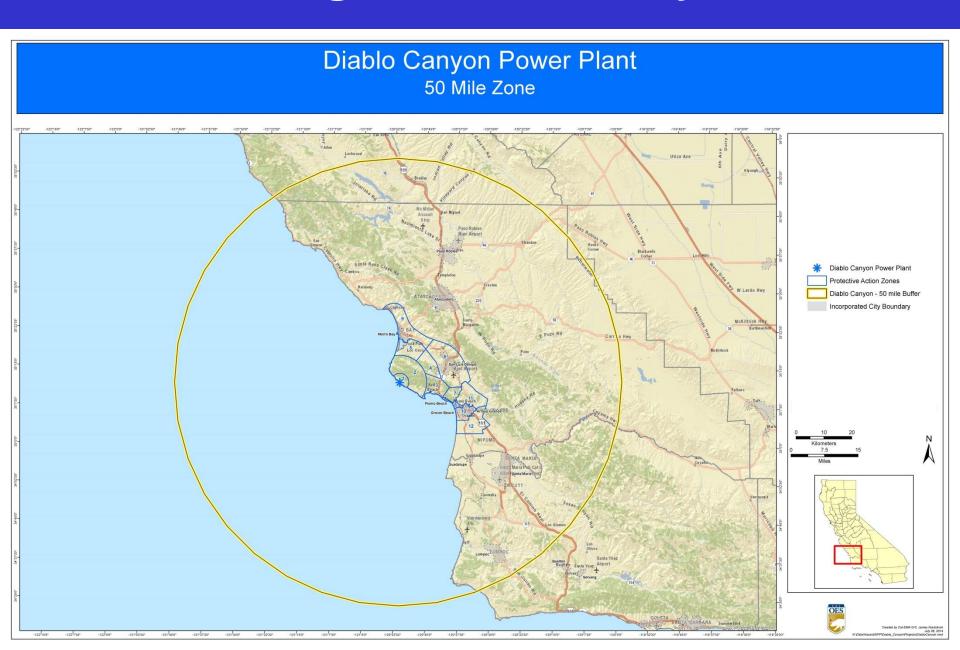
Exercise Purpose

California must demonstrate its capability to provide reasonable assurance for the protection of the public, to FEMA and the NRC, in the unlikely event of a nuclear power plant emergency.

Emergency ng Zone (EPZ) Planning Zone



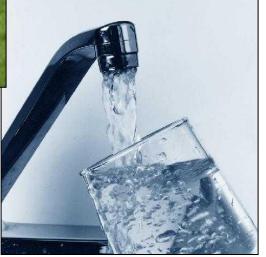
50 Mile Ingestion Pathway Zone



Ingestion Exposure Pathway



The principal risk of exposure is from ingestion of contaminated food and water





Requirements

- Nuclear Regulatory Commission Every 2 years - Plume Phase
- ★ FEMA

 Every 8 years Ingestion Phase
- Required by both Federal and State Regulations

Exercise Specifics

6 Events

- * Plume Phase Exercise
- * Advance Party Meeting
- * SDAC
- * Field Demonstrations
- * RICG
- * Laboratory

Exercise Specifics

3 Days

Day One Plume Phase

Advance Party Meeting

★ Day Two SDAC

Field Demonstrations

* Day Three RICG

Out of Sequence - Laboratory

Exercise Specifics

Performed Twice, Written Twice, and Two Scenarios

- Dress Rehearsal
 - * June 26-28, 2024

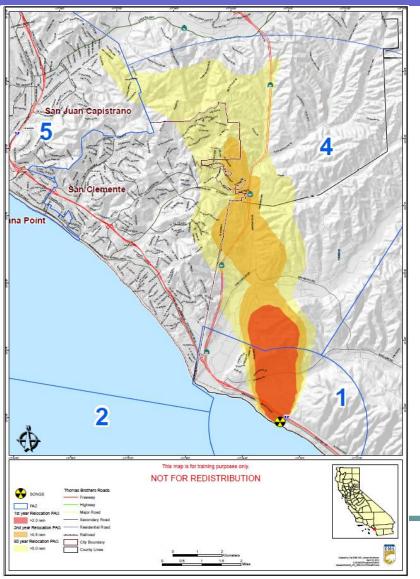
- * Evaluated Exercise
 - * July 31 August 2, 2024

Objectives vs Eval Criteria

In FEMA Evaluated Nuclear Power exercises, Objectives are defined by the FEMA Radiological Emergency Preparedness Program Manual.

* The Objectives are defined as Evaluation Criteria.

Data vs Injects



No Injects

The exercise DATA Package defines the play.

FEMA Evaluation Process

- * Evaluate Offsite emergency response organizations' ability to implement plans and procedures to protect the health and safety of the public
- ★ Determine the adequacy of facilities, equipment and supplies needed in support of a potential emergency at Diablo Canyon Power Plant

FEMA Evaluation Process

* 16 - 20 Evaluators

* 18 locations

- * 175 Assigned Criteria
 - * Each criteria has 10 to 25 points of review
 - * Each criteria requires a written narrative

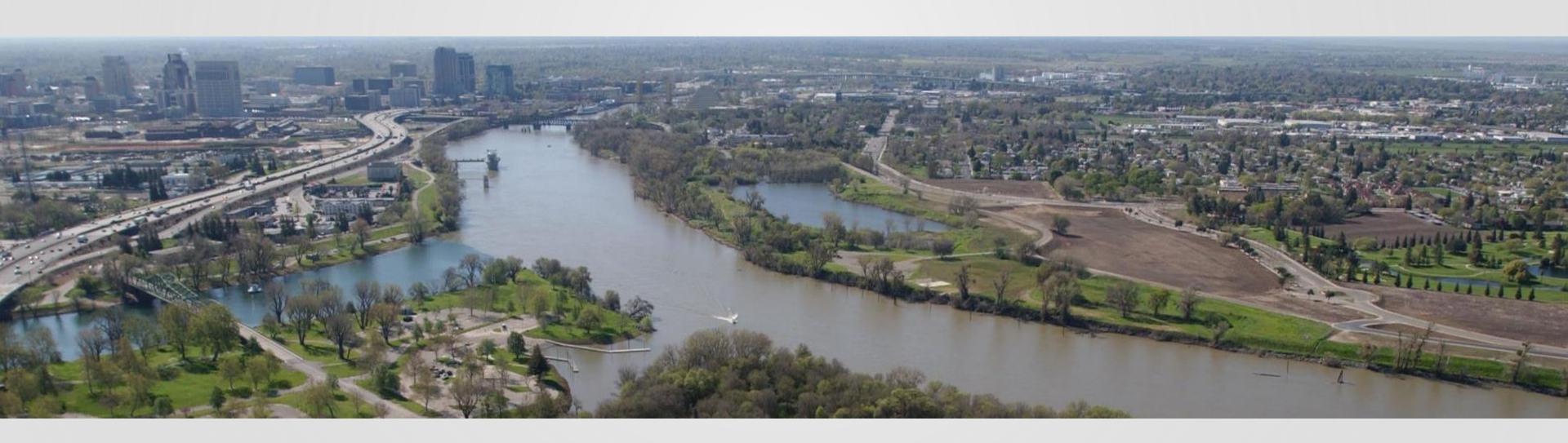
Exercise Outcomes

- * FEMA Findings
 - * Plan Issues
 - * Level 2 Finding
 - * Level 1 Finding
- * Reasonable Assurance
- * Presented in the FEMA Public Meeting
- * After Action Report/Improvement Plan (AAR/IP)



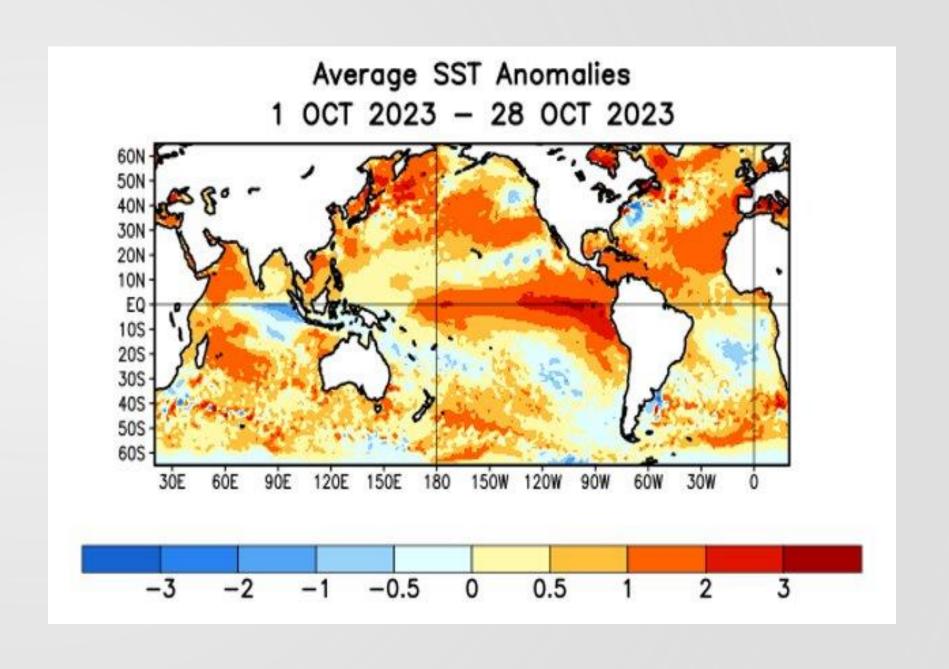
Preparations for El Nino

SWEPC, November 14, 2017



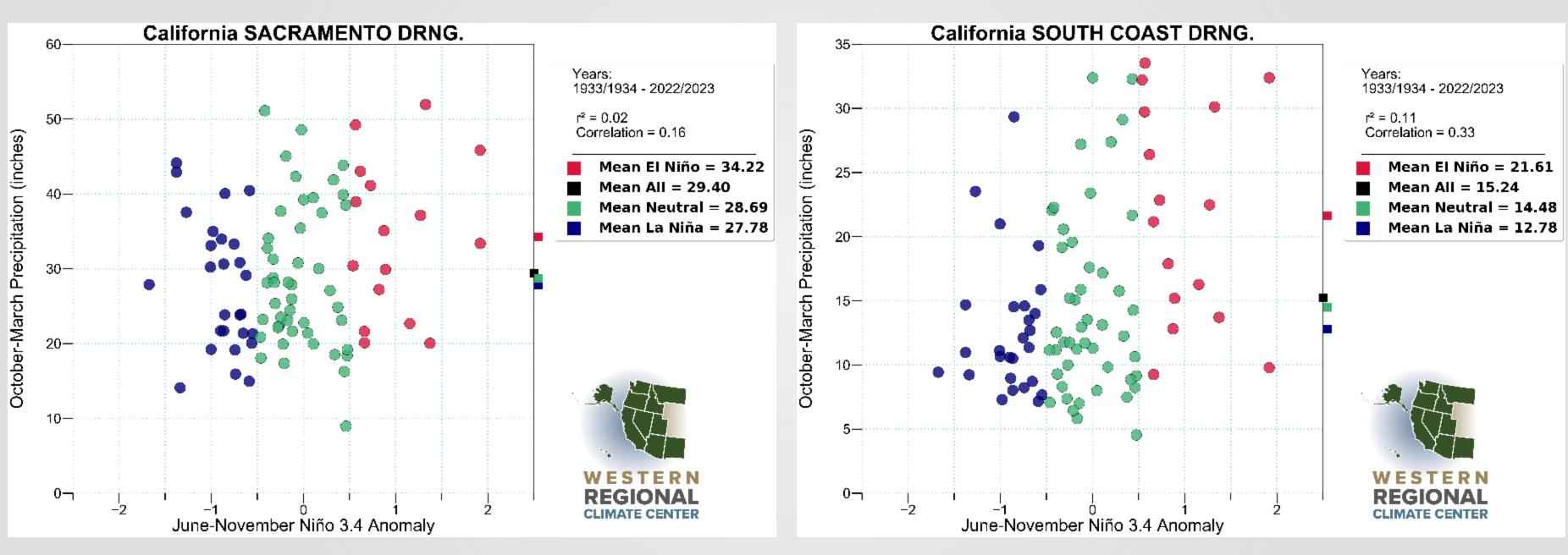
El Niño Returns to the Eastern Tropical Pacific

- Last El Niño winter was in water year 2019
- 7 events in 21st Century so far (2 dry, 3 near average, 2 wet)
- This event expected to peak near end of calendar year
- Sub-seasonal climate influences are important





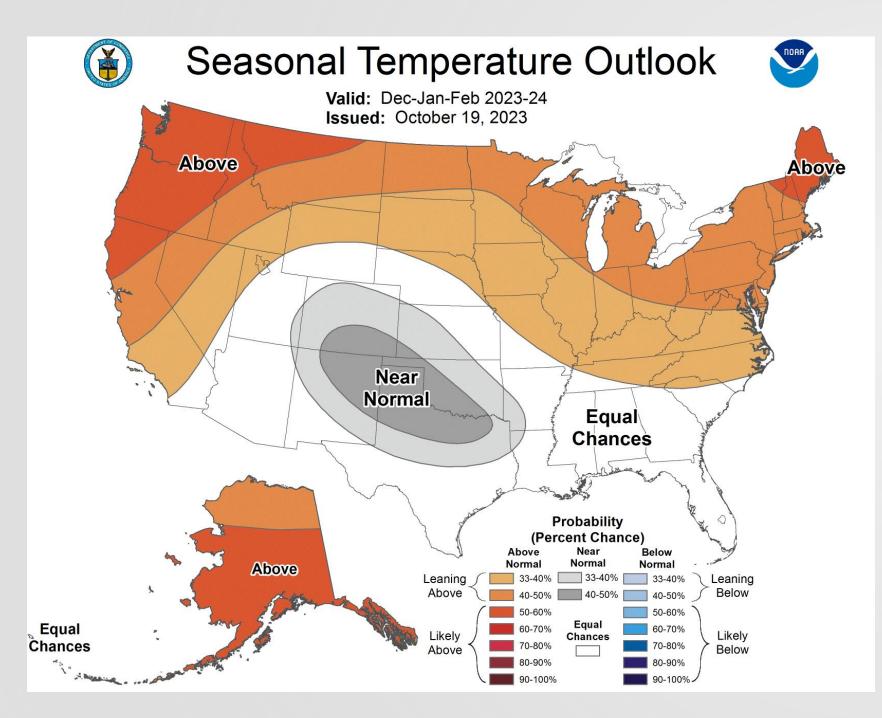
Precipitation Outcomes with ENSO

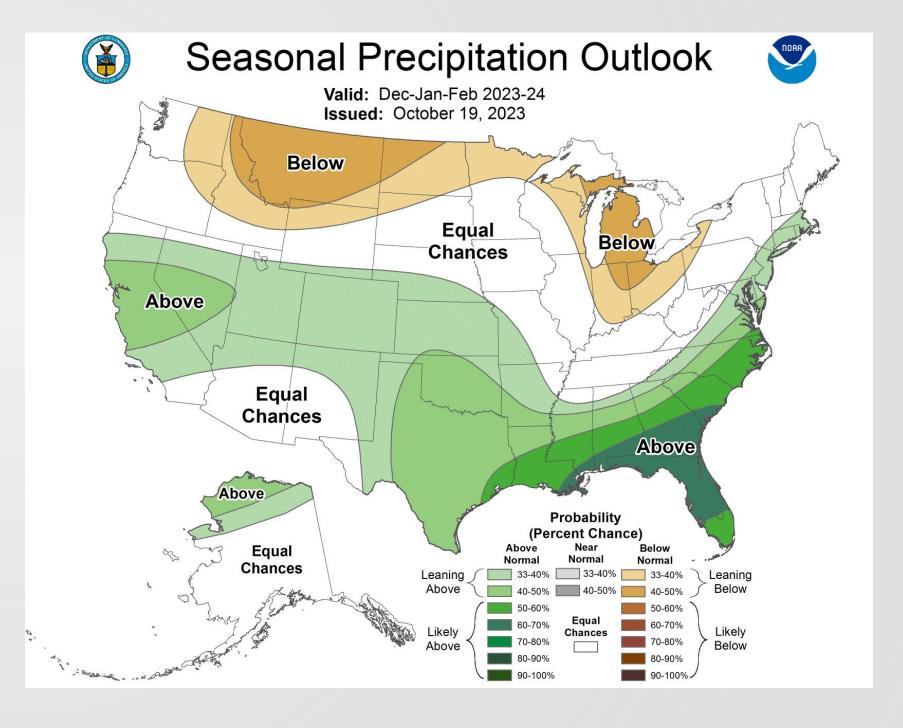


WRCC: SOI-Precipitation Relationships (dri.edu)

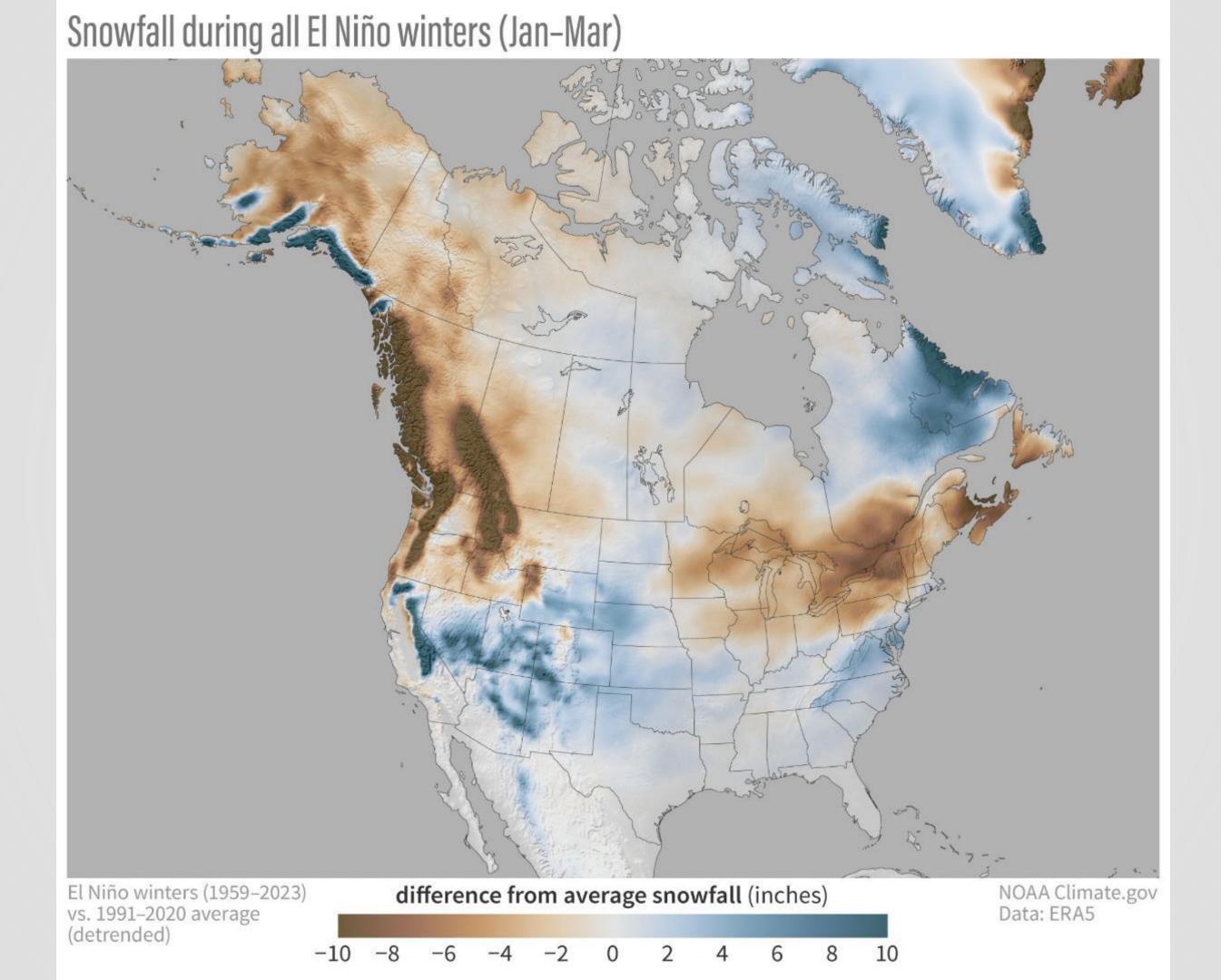


NOAA Climate Prediction Center Outlooks







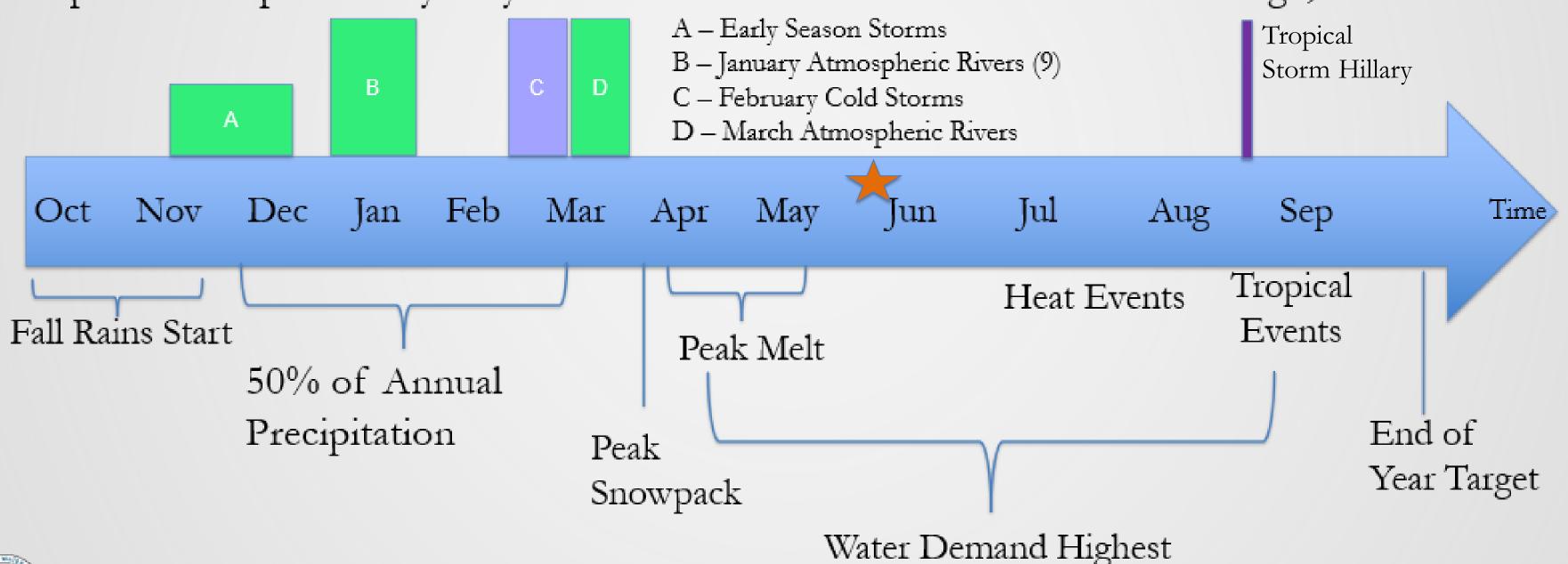


Building a Water Year 2023

Oct-Mar: 153% of Average Statewide – 6th wettest

Oct-Mar: 199% of Average San Joaquin Climate Division – wettest

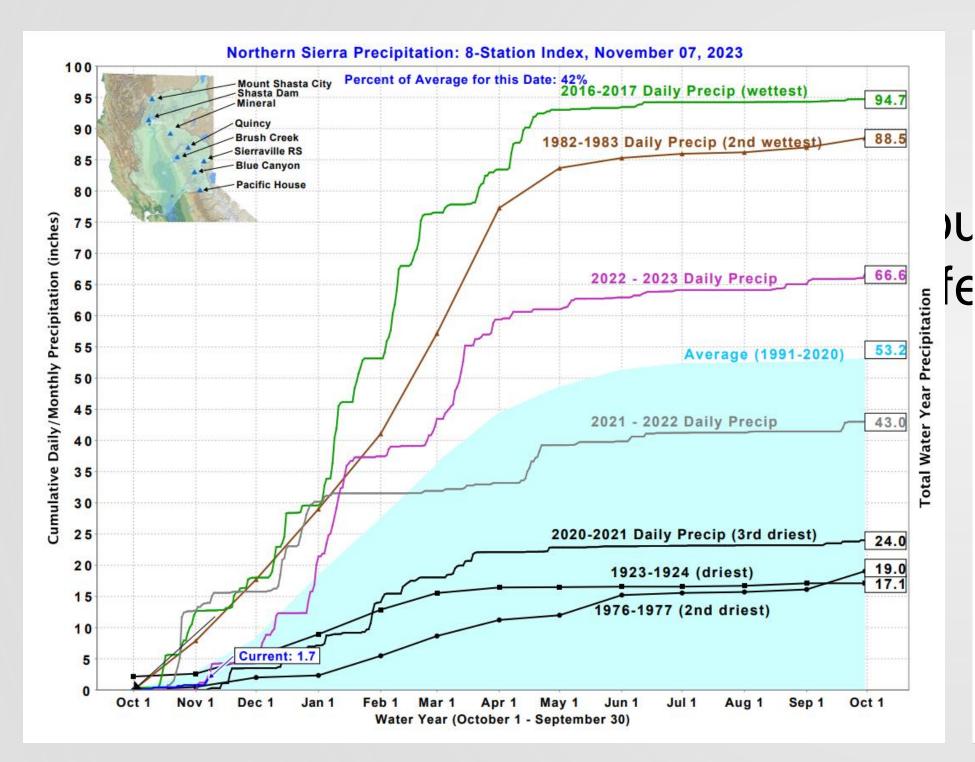
April 1 Snowpack: Only 4th year since 1950 with more than 200% of average; 1st since 1983

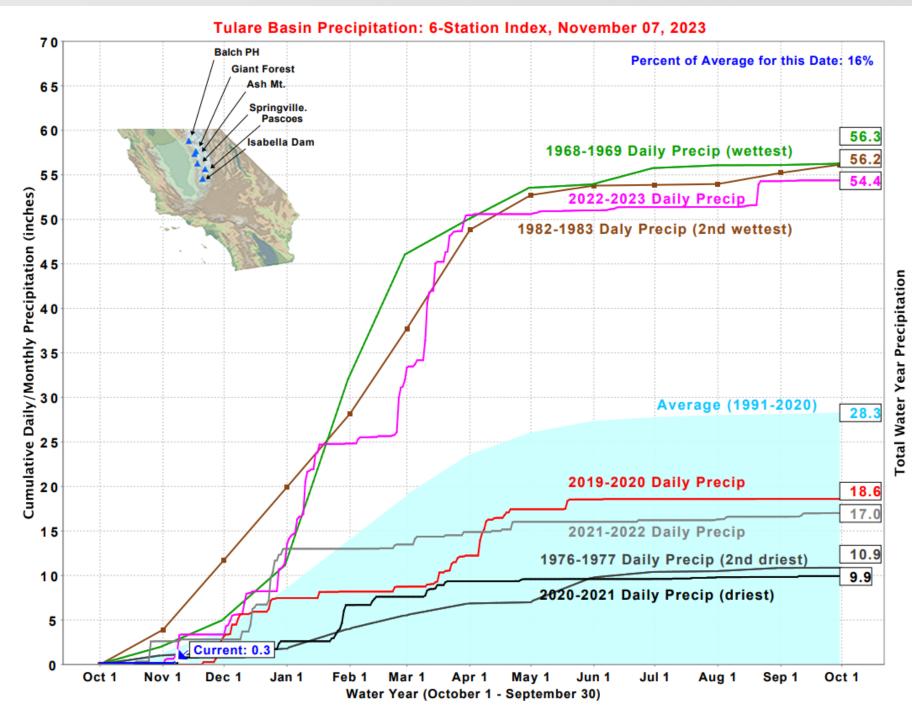




Peak Snowmelt 2023

Forecasting the Water Year







Water Year to Date Precipitation

Precipitation Statistics (period of record: 1981-current)

Statewide as of 11/06/2023

Water Year to Date: 0.8"

% of Average: 50%

Precipitation % of average for

full water year through

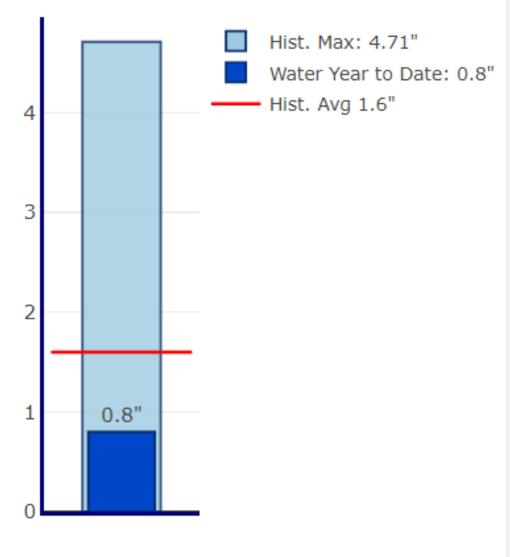
September 30th: 3%

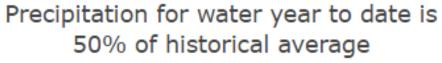
Historical Record to Date:

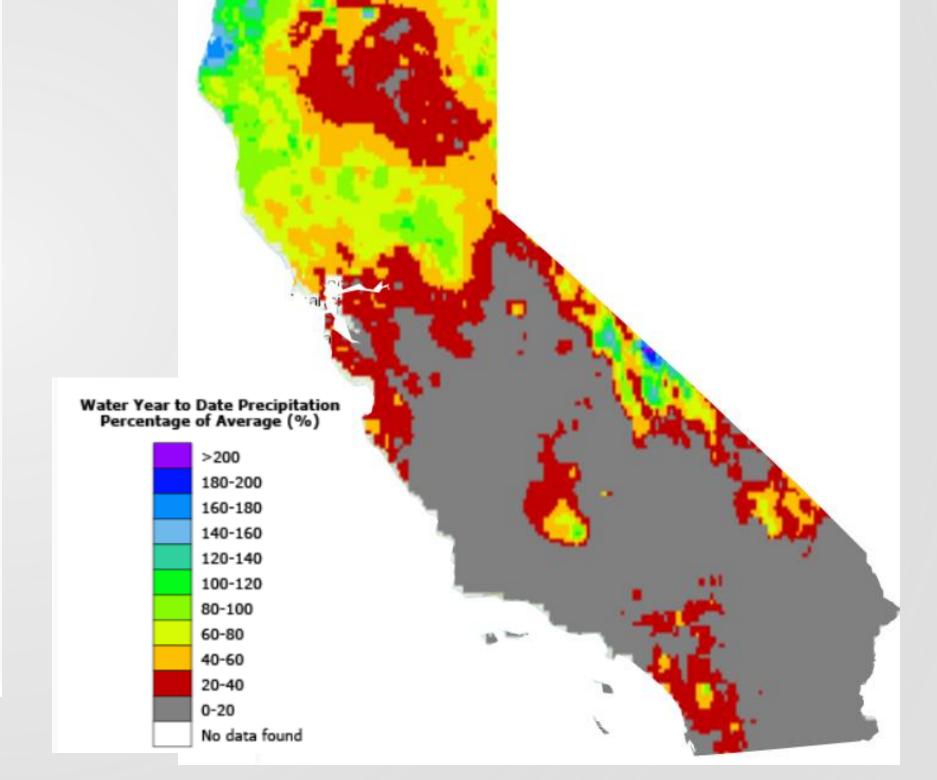
Max: 4.71"

Mean: 1.6"

Min: 0.07"







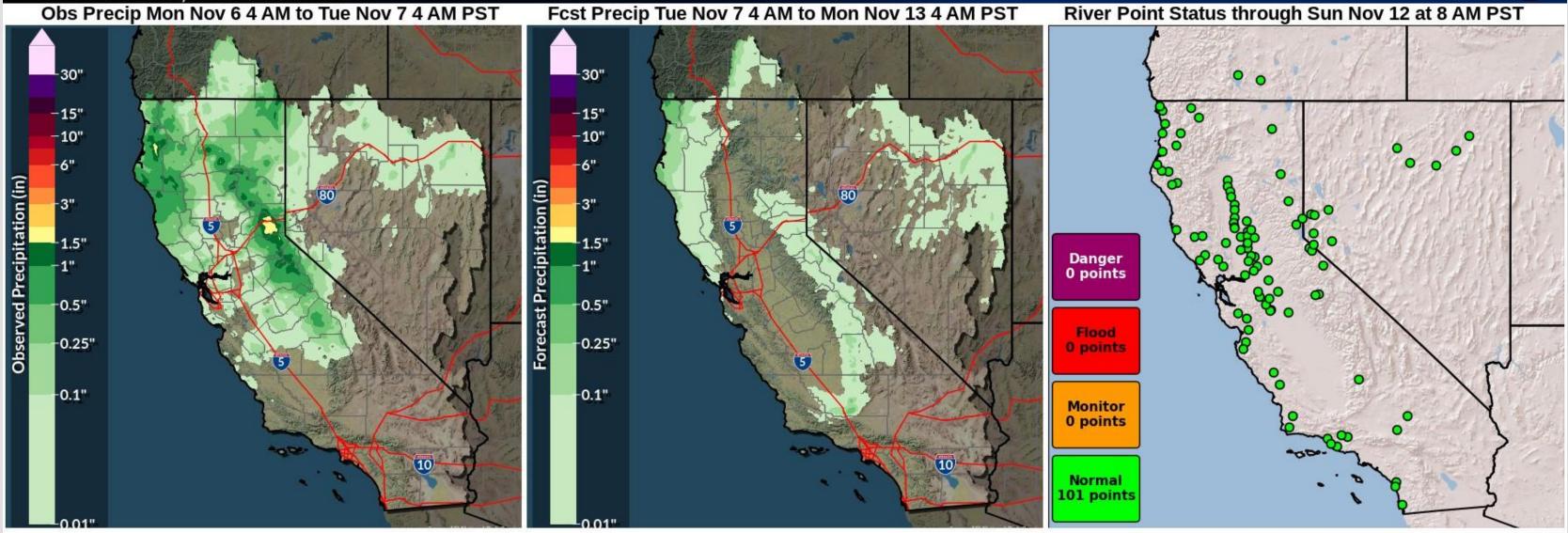


CNRFC Daily Briefing

California Nevada River Forecast Center 시



Issued: Tue Nov 07, 2023 8:51 AM PST



- Light scattered showers across CA/NV today as a trough moves through the region.
- Drier conditions are expected mid-week with a weak system expected late Thu into Fri across northern CA. Additional light showers possible for nw CA and so OR Cascades Sun into Mon.
- Northern CA rivers are expected to recede for the next couple days.
- All river forecast locations are expected to stay below critical stages over the next 5 days.

Confidence: Medium

Staffing Level: Normal

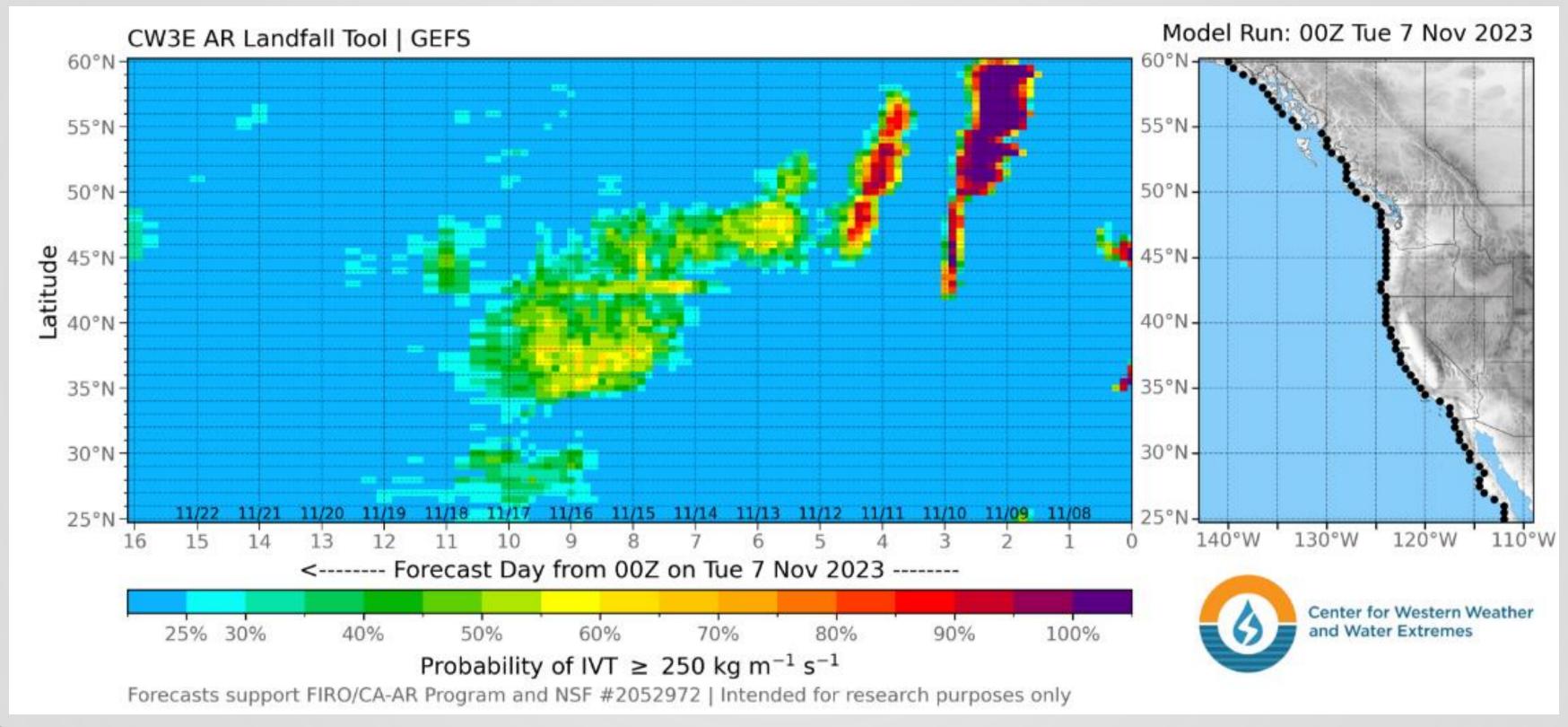


Detailed hydrometeorological discussion: cnrfc.noaa.gov/discussion

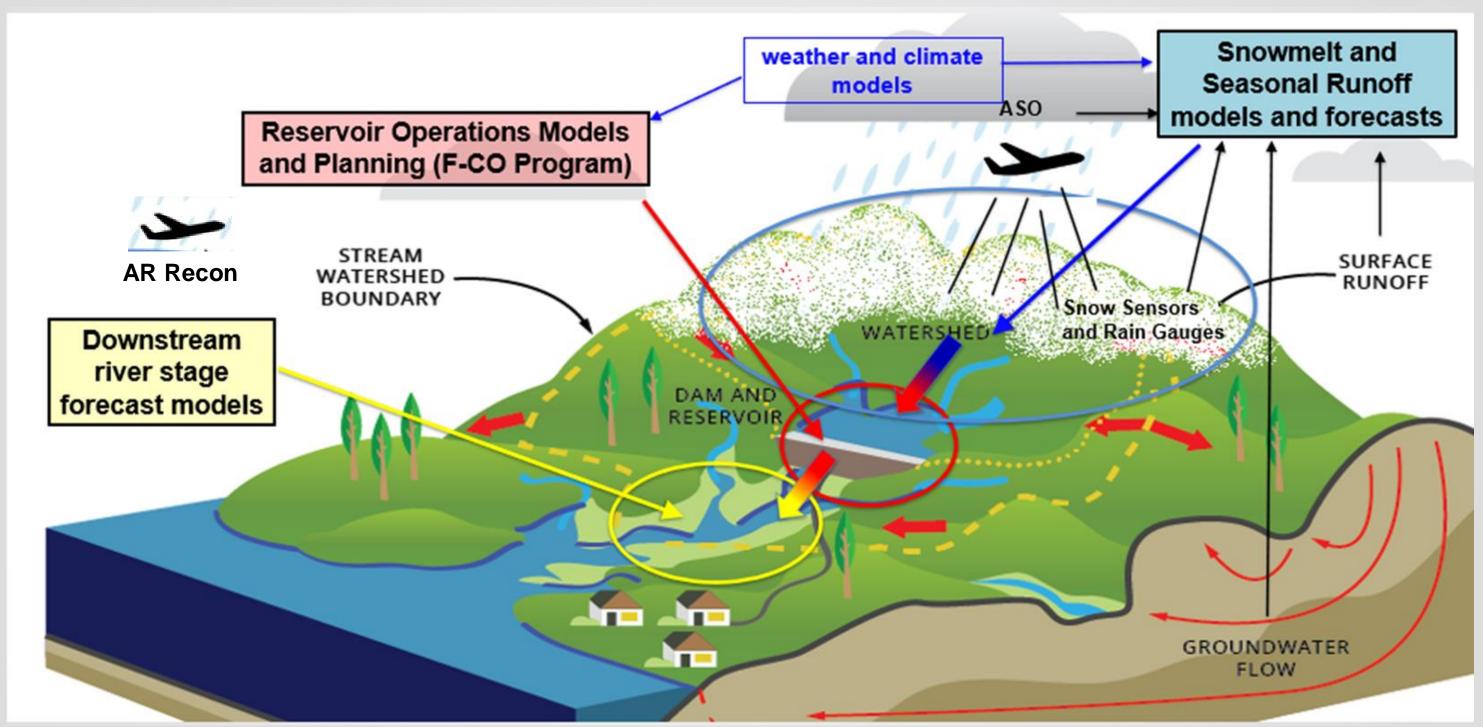
www.cnrfc.noaa.gov



Water Vapor Transport Forecast

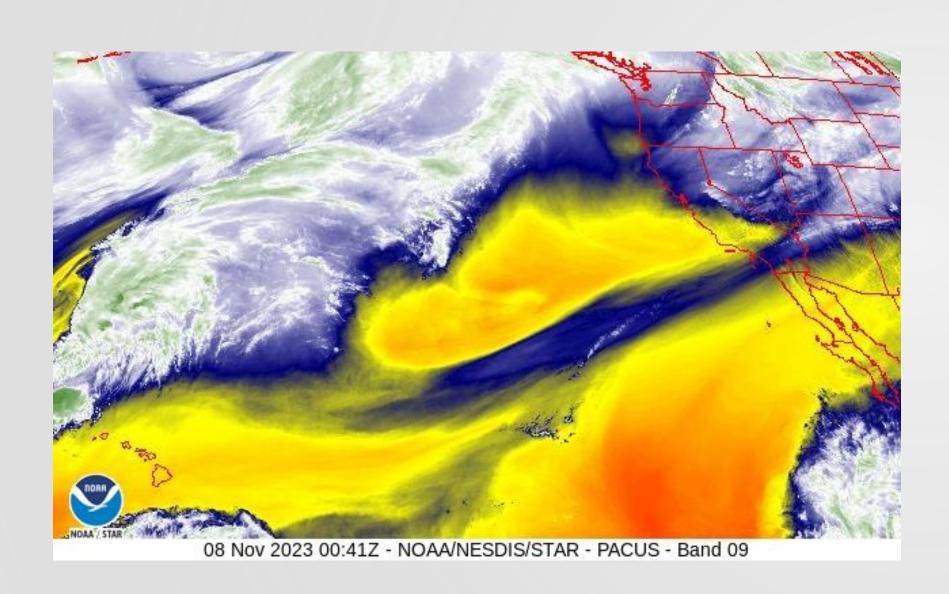


Observations and Forecasts Informing Water Management





Forecasting: Final Thoughts



- WY 2023 full of extremes and transitions
- Expect more of the same in WY2024
- The wet days will likely be wetter than usual; greater likelihood of coastal hazards
- Timing, pace and scale of storms will play a key role in impacts and water year outcomes.



State-Federal Flood Operations Center



FOC Coordination

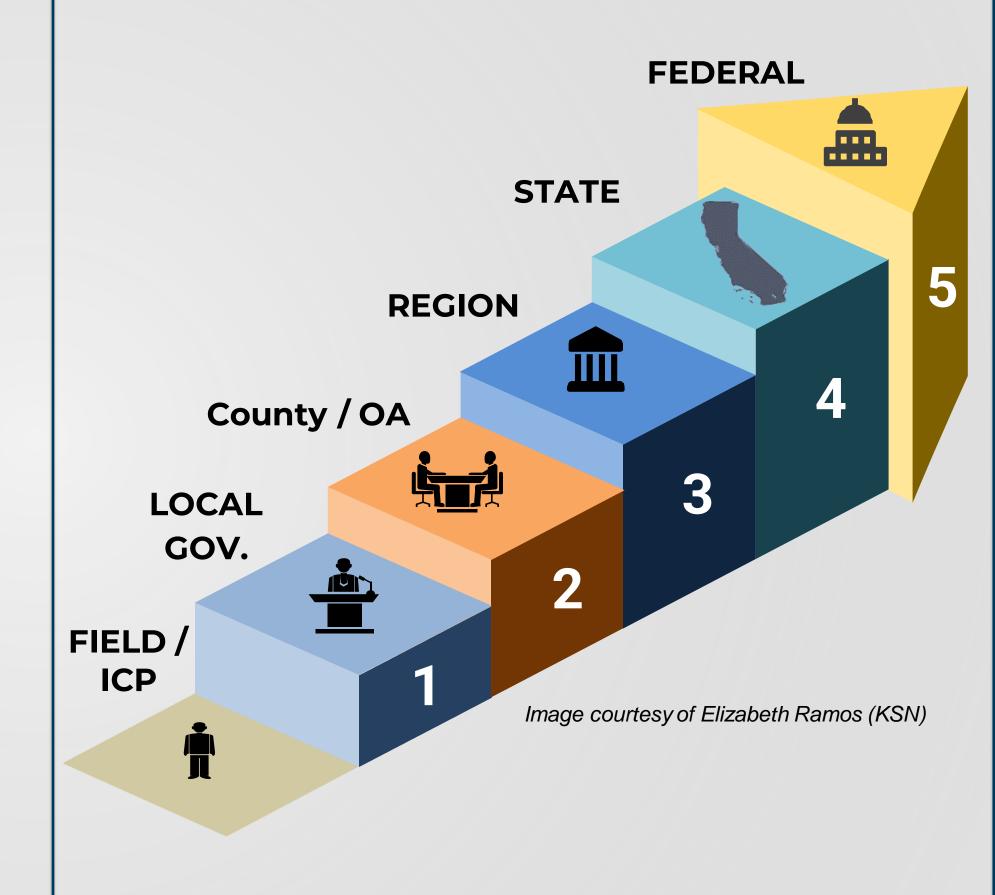
Provides:

- Situational awareness
- Technical and direct assistance
- Conduit for federal assistance under Public Law 84-99

Does NOT:

- Declare emergencies
- Order evacuations
- Repair levees

SEMS Structure



Emergencies start and end at the local level

FOC Activation Levels

Extended hours:

- FOC is not activated
- Enhanced monitoring of a potential situation
- Extended hours of operation by Flood Operations Section staff

Flood Alert:

- FOC is activated under SEMS
- Staffing primarily from FOC Rosters (up to 24/7 hours)

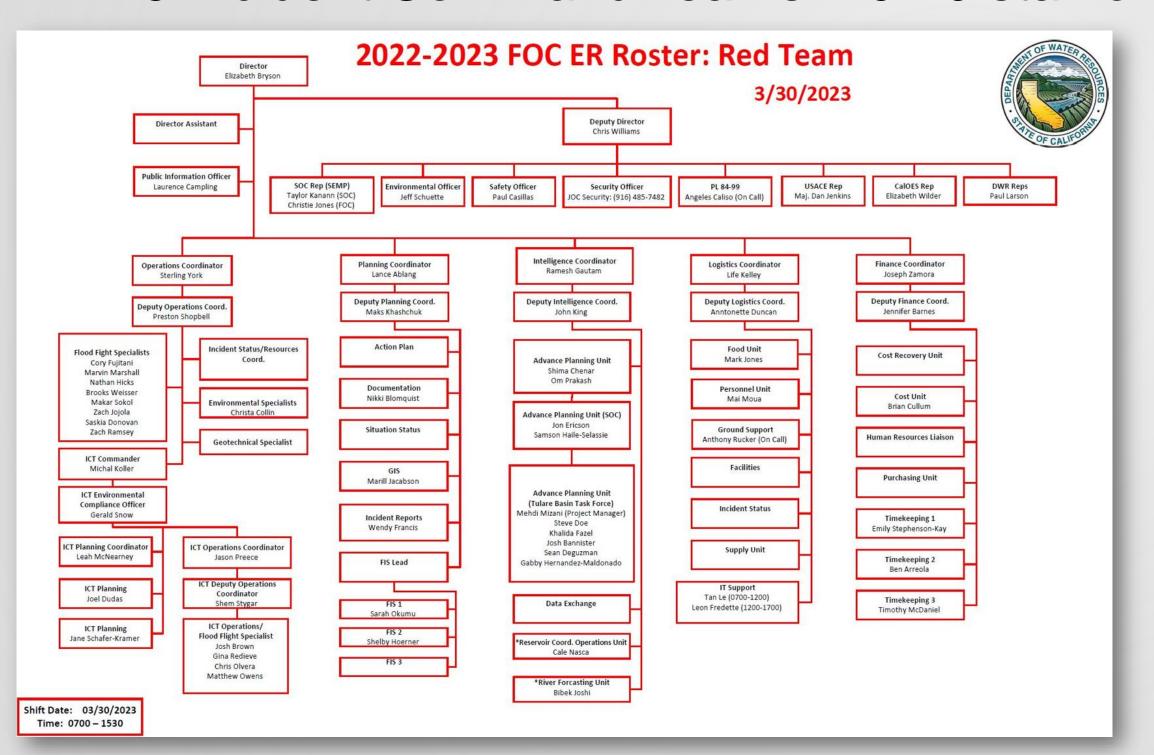
Flood Mobilization:

Authorizes DFM to use any DWR personnel (up to 24/7 hours),
 equipment, material, and finances



FOC Staffing

- FOC Rosters- 180 staff on 3 teams
- 6 Incident Command Teams- 10-20 staff on each



Incident Command Team #2		
Position	Name	
Incident Commander	Josh Banister	
Deputy Incident Commander	Omar Erekat	
Environmental Compliance Officer	Laura Bermudez	
Public Information Officer	Pool	
Safety Officer	Pool	
Operations Section Chief	Andrew Isner	
Deputy Operations Chief	Christa Collin	
Division Supervisor A	Chris Olvera	
Division Supervisor B	Matt Owens	
Division Supervisor C	Johnny Caspers	
Division Supervisor D	Parveer Gill	
Planning Section Chief	Brian Moniz	
Field Observer/Documentation Daniel Burgett		
Situation Unit	Nick Teague	
Logistics Section Chief	Gabby Hernandez	
Communications and IT Units	Pool	
Supply Unit	Michael Weil	
Finance/Admin Section Chief	Pool	

Training and Exercises

- SEMS/NIMS/ICS
 - Introduction course (4 Hours)
 - Refresher course (2.5 Hours)
- EOC Credentialing Training
- Functional and Tabletop Exercises





Flood Fight Materials

- Intended use
- Status of current supplies
- Policy discussion with CalOES

	Fall 2022 Quantity	Fall 2023 Quantity
Burlap Sandbags	~ 3.5 Million	~ 3.2 Million
Plastic Sandbags	0	~ 2.7 Million
Total Sandbags	~ 3.5 Million	~ 5.9 Million
2' Tall Muscle Wall	4.1 Miles	4.5 Miles
4' Tall Muscle Wall	0.0 Miles	1.1 Miles
Total Muscle Wall	4.1 Miles	5.6 Miles
# of Locations	49	64





Flood Fight Methods Training

- Offered to local agencies and internal DWR staff
- Identify common levee threats and mitigation
- DWR YouTube videos
- "Just in Time" Training

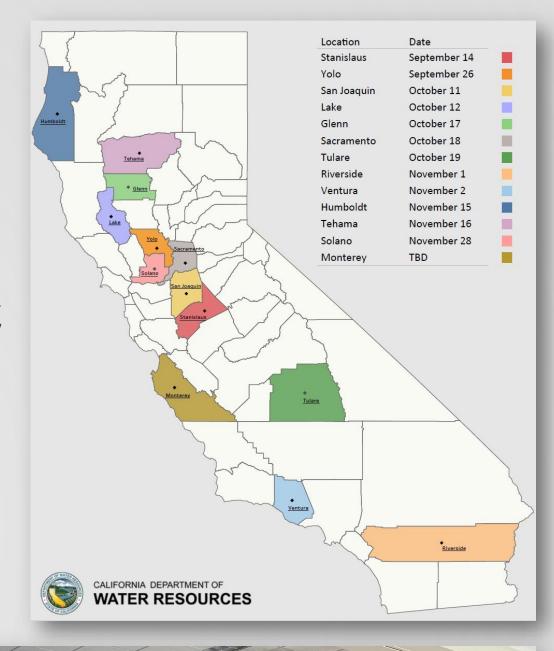






Flood Preseason Meetings

- Hosted by County OES in partnership with FOC
- Inform local partners of resources and assistance available
- Regional and local updates on annual flood preparedness activities







Weather and Hydrology Briefings

- Held during the winter season and as needed:
 - Joint effort between DWR and NWS California
 Nevada River Forecast Center
 - Reservoir operators' release change updates
 - Atmospheric River forecast briefings



Flood Emergency Response Grants



Flood Safety Plans



- \$30 million awarded
- 31 contracts
- 188 agencies
- 87 safety plans



Training and Exercises



Flood Fight Materials



- \$20 million awarded
- 59 contracts
- 399 agencies
- 55 flood safety plans
- \$1.9 million directed funding is available (\$500k for Tulare Basin Counties)



Vulnerable Locations

Impacted During Last Flood Season

- Atmospheric River driven events:
 - Cosumnes River
 - Bear Creek (Merced)
 - Pajaro River
 - Santa Maria River
 - Tulare Basin
- Snowmelt driven events:
 - San Joaquin Basin
 - Tulare Basin

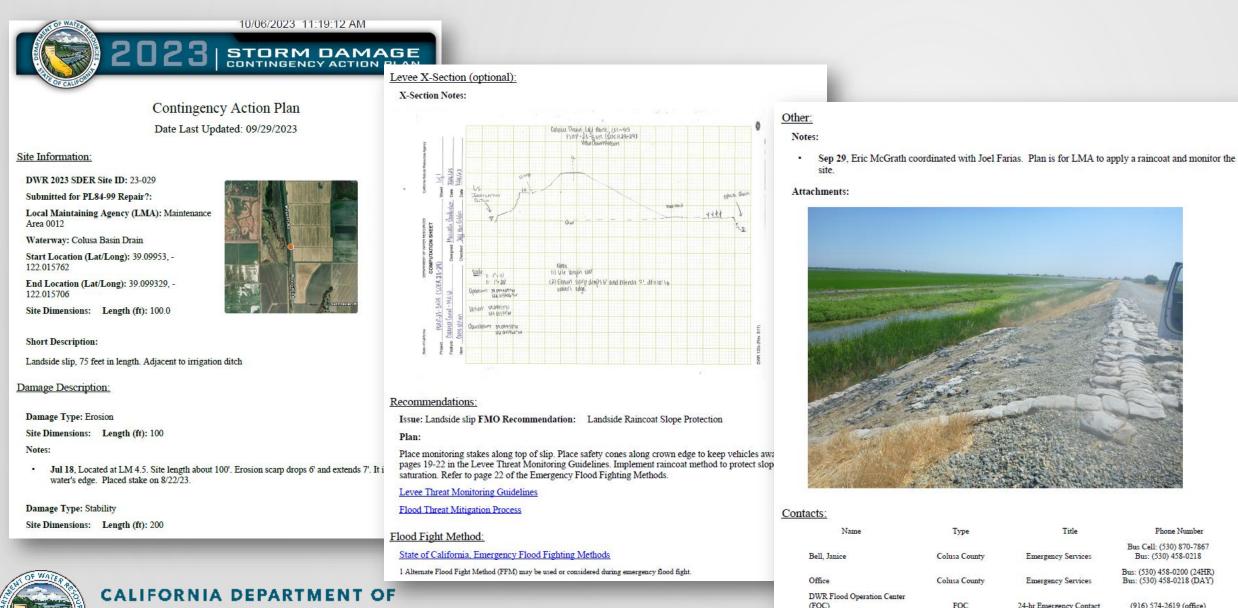


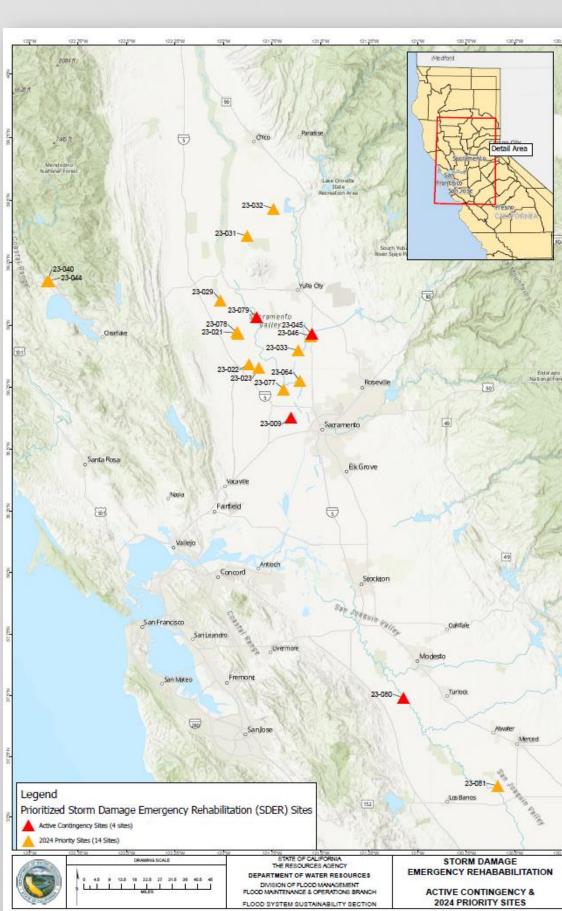




Storm Damage Emergency Rehab

- Coordination with USACE/CVFPB/LMAs on PL 84-99 requests
- Site assessments
- Contingency Measures for highest priority critical sites
- Contingency Planning for potential flood fighting







Lessons Learned from WY 2023

- 1. Activated staff stepped-up where needed
- 2. More staffing and training needed for:
 - Advanced Planning
 - Inundation Modeling/Mapping
 - Incident Status Reporting
- 3. Relationship with CalOES-SOC is vital
- 4. DREOA funding greatly supported cost recovery



Follow us on social media







calwater



cadepartmentofwaterresources



CDSS Response and Recruitment Unit

VEST, FAST, and CDSS Employee Redirect Programs







Team Overview

- 1 Staff Services Manager I
- 4 Associate Governmental Program Analysts
 - Volunteer Emergency Services Team (VEST) Program Coordinator
 - Functional Assessment Service Team (FAST) Program Coordinator
 - CDSS Employee Redirect Program Coordinator
 - Program Support and Volunteer Engagement





Roles and Responsibilities

- Oversee and coordinate disaster volunteer programs, including volunteer recruitment and engagement
- Manage Disaster Volunteer Information Management System
 - DVIMS.dss.ca.gov



Disaster Volunteer Programs



Volunteer Emergency Services Team (VEST)





Functional Assessment Service Team (FAST)



Program Comparison Part 1



VEST

- Established in 1985
- State employees
- Support shelters, Disaster Recovery Centers, EOC/DOC/SOC, etc.



FAST

- Established in 2007
- State and county programs
- Assess shelter clients with disabilities and AFN to determine and request needed resources



Program Comparison Part 2



/EST

- Larger program
- 153 volunteers
- Training: 1 day



FAST

- Smaller program
- 60 state volunteers
- 110 county volunteers trained in FY 23-24
- Training: 2 days



VEST

Volunteer Emergency Services Team



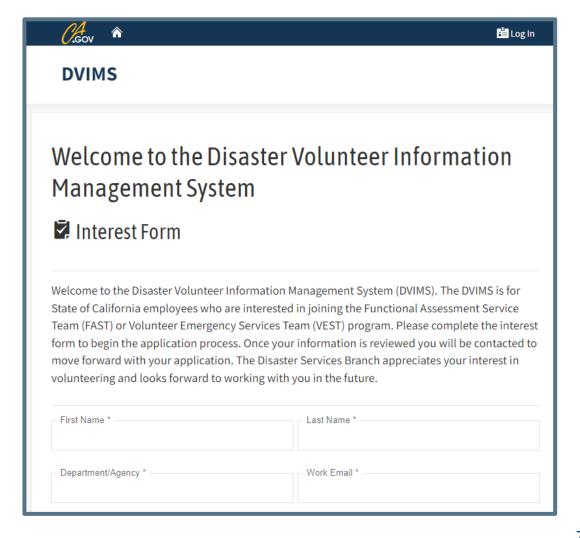






VEST Eligibility Criteria

- Current State of California employee
- Complete application via DVIMS
- Current supervisor approval







VEST Orientation

- One 8-hour training
- Virtual classroom
- At least six sessions per year
- Covers emergency management basics and what to expect





FAST

Functional Assessment Service Team

FAST Eligibility Criteria

Similar to VEST requirements, also:

- Minimum 2 years of personal or work experience with AFN community
- DOJ background check
- Completion of FAST certification course





FAST Certification Course

- 16-hour training
 - Additional session for state volunteers
- Subject matter experts
- Virtual classroom
- Up to 10 sessions per year
- Covers emergency management basics and what to expect





FAST Areas of Expertise

- Aging (services/supports, including dietary needs)
- Chronic health conditions
- Developmental & other cognitive disabilities (i.e., traumatic brain injury, intellectual)
- Hearing loss

- Mental health disabilities
- Physical disabilities
- Substance abuse
- Vision loss







CDSS Employee Redirect Program

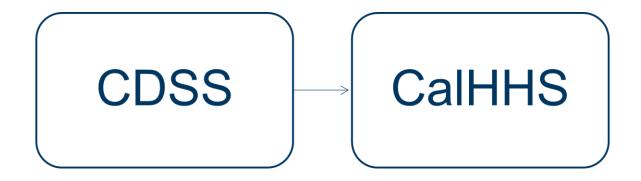






Employee Redirect Activation

- Officially sanctioned through California
 - Cal. Gov. Code § 3100-3109
- Utilized if VEST/FAST resources have been exhausted
 - Activated upon DSB request and Executive approval





Employee Redirect Process

- Must obtain supervisor approval
- Must provide emergency contact information, be willing to deploy on weekends or holidays, and agree to deploy or demobilize immediately
- Just in Time training must be reviewed prior to deployment
- Must complete demobilization paperwork following deployment





Volunteer Activation

From Deployment to Demobilization







Requesting Volunteer Support

Shelter
Manager
identifies and
communicates
need to local
EOC



Local EOC
communicates
to SOC and
enters mission
request into
WebEOC



SOC (DSB Rep) sends mission request to DOC Director and Unit Chief



Volunteer
Coordinator
contacts
volunteers via
Everbridge



Hours and Compensation

- Up to 12-hour shifts, maximum of 14 days
- CDSS reimburses for travel, per diem, and overtime (if eligible)
- Volunteer's home department pays regular 40-hour week







Program Limitations

- Volunteers cannot self-deploy.
- During deployment, volunteers are not:
 - Shelter Managers
 - Case Managers
 - Behavioral Health Workers
 - Therapists
 - Personal Care Assistants
 - Medical Personnel

- All volunteers shed the duties of their regular job classifications.
- VEST and FAST volunteers are not interchangeable.
 - VEST cannot assess shelter clients.
 - FAST cannot perform general shelter duties.





Volunteer Demobilization

- Required to meet with our staff for:
 - Overtime processing
 - Travel Expense Claim
 - Collection of forms and documents
- Documents due within 10 days of deactivation date
- Forms are forwarded to CDSS Personnel and Travel Units





Contact Information

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Program Support and Volunteer Engagement

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Questions or Comments?







Thank you!







