



## ZONE 3 ADVISORY COMMITTEE

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San Luis Obispo County Flood Control and Water Conservation District

### AGENDA

Thursday, January 18, 2018 6:30 P.M.  
City of Grover Beach

- I. CALL TO ORDER AND ROLL CALL
- II. PUBLIC COMMENT  
This is an opportunity for members of the public to address the Committee on items that are not on the Agenda
- III. APPROVAL OF MEETING MINUTES OF NOVEMBER 16, 2017
- IV. OPERATIONS REPORT
  - A. Water Plant Operations, Reservoir Storage, Downstream Releases
  - B. Projected Reservoir Levels
- V. INFORMATION ITEMS
  - A. Climate Update
  - B. Update on the Lopez Spillway Assessment
  - C. Distribute Fiscal Year 2018-19 Proposed Budget
- VI. CAPITAL PROJECTS UPDATE
  - A. Bi-Monthly Update
- VII. ACTION ITEMS (No Subsequent Board of Supervisors Action Required)
- VIII. ACTION ITEMS (Board of Supervisors Action is Subsequently Required)
- IX. FUTURE AGENDA ITEMS
  - A. Winter Update to Board of Supervisors regarding Groundwater Levels and [Wr.SLOCountyWater.org](http://Wr.SLOCountyWater.org) Webpage
  - B. Lopez Lake Safe Yield
- XI. COMMITTEE MEMBER COMMENTS

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Next Regular Meeting is Tentatively Scheduled for  
Thursday, March 22, 2018 at 6:30 PM at City of Arroyo Grande  
Agendas accessible online at [SLOCountyWater.org](http://SLOCountyWater.org)

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**SAN LUIS OBISPO COUNTY FLOOD CONTROL  
AND WATER CONSERVATION DISTRICT  
ZONE 3 ADVISORY COMMITTEE  
DRAFT MEETING MINUTES  
THURSDAY November 16, 2017**

- I. Call to Order and Roll Call** -- The Zone 3 Advisory Committee Meeting was called to order at 6:30 PM at the City of Arroyo Grande by Committee Chair and Agriculture Representative, Vard Ikeda.

County Public Works Department Utilities Division Program Manager and Secretary to the Zone 3 Advisory Committee, Andrea Montes, called roll. Members in attendance were:

- Kristen Barneich, City of Arroyo Grande
- Andrew Brunet, Oceano Community Services District
- Brad Hagemann, Avila Beach Community Services District
- Vard Ikeda, Chair and Agriculture Representative
- Jeff Lee, City of Grover Beach

- II. Public Comment** -- No public comment.

- III. Approval of Meeting Minutes of September 21, 2017**-- Member Barneich motioned approval; Member Brunet second. Member Hagemann abstained as he did not attend the September 21 meeting. Minutes were approved.

- IV. Approval of 2018 Meeting Schedule** -- Ms. Montes indicated the 2018 Meeting Schedule included the meeting schedules for the Zone 3 Technical Advisory Committee (TAC) as well as the Zone 3 Advisory Committee. Member Barneich motioned approval. Member Lee second. The 2018 Meeting Schedule was approved.

- V. Operations Report** --

**A. Water Plant Operations, Reservoir Storage, Downstream Releases** -- Ms. Montes indicated the Lopez Lake elevation was 492.44 feet. Storage was 26,409 acre-feet (AF), which is 53% capacity. Rainfall to date was .29 inches (water year reset on July 1). Plant production was 5 million gallons per day (MGD). Downstream release was 3.5 MGD. State Water was 0.0 MGD.

No public comment was given.

**B. Projected Reservoir Levels** -- County Public Works Department Utilities Division Engineer, Jill Ogren, reviewed the projected reservoir levels graph. She indicated County staff utilized LongRangeWeather.com, which provides projected rainfall amounts, which are then utilized to project Lopez Reservoir levels, and the key is to look at the graph's bottom blue lines entitled, "Projected Precipitation". She further

indicated levels were projected to reach 50% to 75% through March 2018, which was as far out as LongRangeWeather.com projects monthly rainfall.

No public comment was given.

## **VI. Information Items**

**A. 1st Quarter Budget Status** -- Ms. Ogren stood in for Kristi Smith, County Public Works Department Finance Division and Zone 3 Accountant, and presented the 1st Quarter Budget Status Fiscal Year (FY) 2017-18 for Flood Control Zone 3.

Ms. Ogren indicated the three categories of the budget include: 1.) Routine Operations and Maintenance (O&M); 2.) Non-Routine O&M; and 3.) Capital Outlay. With these three budget categories combined, the expenses totaled 18% of the total budget, at 25% of the Fiscal Year (July 1, 2017 through June 30, 2018).

Ms. Ogren reviewed graphs and further indicated:

- At 25% of the FY, 24% of Routine O&M budget (chemicals, labor to run the plant, operating costs) had been spent.
- At 25% of the FY, 6% of the Non-Routine budget had been spent, due to a carryover from FY 16/17 of approximately \$250,000 from the Habitat Conservation Plan and \$118,000 from pigging projects (clearing and inspection of pipelines).
- At 25 % of the FY, 3% of the Capital Outlay budget had been spent, due to the type of work being completed the first quarter of the FY (i.e., requests for proposals (RFPs) and bids, rather than construction work).

Ms. Ogren indicated all Zone 3 Agencies are current on their payments.

No public comment was given.

**B. Climate Update** -- Ms. Montes indicated that according to the United States Drought Monitor, San Luis Obispo County is experiencing an abnormally dry climate. According to National Oceanic and Atmospheric Administration, the temperature forecast for November was below average temperatures. There were chances of above average rainfall for November.

No public comment was given.

**C. Update on the Lopez Spillway** – Ms. Ogren presented a brief update of the Department of Water Resources (DWR's) Division Safety of Dams' (DSOD's) required assessment of the Lopez Spillway.

Ms. Ogren referred to a letter dated October 16, 2017 from DWR that indicated approval of the Lopez Spillway assessment workplan submitted by County Public Works.

Ms. Ogren indicated Public Works is developing a scope of work to put out to bid around January 2018, that entails a “desktop assessment” of the spillway (plans, maintenance reports, things that can be performed from a desktop) along with “non-destructive” testing (evaluating without causing damage).

Ms. Ogren estimated an initial cost of \$50,000 to \$100,000 for investigation to determine if repairs are needed. Repairs could lead to “destructive testing” if something comes out of the desktop assessment that indicates a need to look further below the slab. However, because Public Works did a significant amount of work during the seismic retrofit of the spillway completed in the early 2000s, Ms. Ogren indicated staff does not anticipate having to perform “destructive testing”.

## **VII. Capital Projects Update**

**A. Bi-Monthly Update** -- Ms. Ogren presented a brief update of the Capital Projects listed below.

**HCL Tank for Ph Suppression** -- This project was due to be completed in November. The hydrochloric acid tank will replace individual totes for pH suppression that require replacement several times a month by Lopez Water Treatment Plant operators who must dress in hazmat suits. It is anticipated that the tank will need to be filled only once a month and eliminate the need to wear hazmat suits.

**Equipment Audit & Replacement Project** -- This is an ongoing project as part of Public Works’ 20-year outlook which allows staff to be proactive rather than reactive and includes regular inspections and replacement of equipment.

**Lopez Dam & Terminal Dam Hazard Classification** -- Ms. Ogren indicated this is a high priority item which includes the completion of inundation maps by January 2018, required by the DSOD in response to the Oroville Dam failure. Ms. Ogren further indicated results were received from a RFP that Public Works staff put out. Another component of this item is a required emergency action plan.

**Structural Assessment of Terminal Reservoir** -- Ms. Ogren indicated proposals were being reviewed.

**Fault Zone Repair Dam Left Abutment** -- Ms. Ogren indicated proposals were being reviewed and 19 contractors from as far as Pennsylvania arrived on site to show interest in this project, as well as the Structural Assessment of Terminal Reservoir project.

**Equipment Storage at Lopez Water Treatment Plant** -- This project was in process and involved an enhanced garage at the Plant.

**Lopez Water Treatment Plant Safety Upgrades** -- These upgrades were being made in response to a safety assessment from 2016 at the Plant.

Ms. Ogren indicated future Capital Projects to be completed by June 2018, include:

- Pressure Transducers related to the Turnout Scada Project
- Cathodic Protection Survey
- Membrane Feed Pump Replacement
- Domestic and Fire Tanks Repair at Lopez Water Treatment Plant
- Replacement of Ammonia Analyzer (laboratory equipment)

Member Lee inquired whether the paving at the Lopez Water Treatment Plant was completed. Ms. Ogren indicated it was completed, along with drainage improvements.

No public comment was given.

**VIII. Action Items (No Subsequent Board of Supervisors Action Required)**

None discussed.

**IX. Action Items (Board of Supervisors Action is Subsequently Required)**

None discussed.

**X. Future Agenda Items**

**A. Fall Update to Board of Supervisors** -- The Committee requested this item be updated to "Winter Update . . ." to the Board of Supervisors, regarding groundwater levels and how they relate to the Low Reservoir Response Plan (LRRP) and whether the LRRP will remain in place or not.

**B. Lopez Lake Safe Yield** -- "Safe Yield" is the amount of water that can be safely used each year without the Lopez Reservoir going below the minimum pool. By utilizing rainfall and hydrology history since 1969, future modeling will demonstrate what the Reservoir will look like if all water entitlements were distributed to participating agencies.

**XI. Committee Member Comments** -- The Committee requested the website: <https://wr.slocountywater.org/home.php> be noted in the minutes to obtain rainfall, streams, reservoir and groundwater levels.

**Meeting Adjourned at 7:27 PM**

Respectfully Submitted,

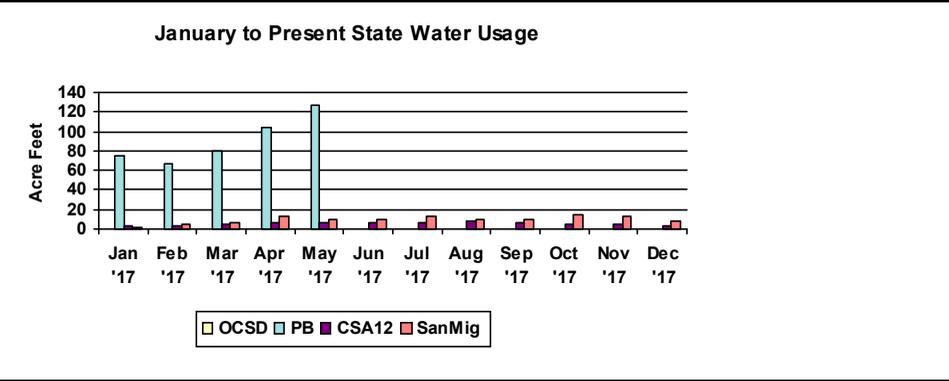
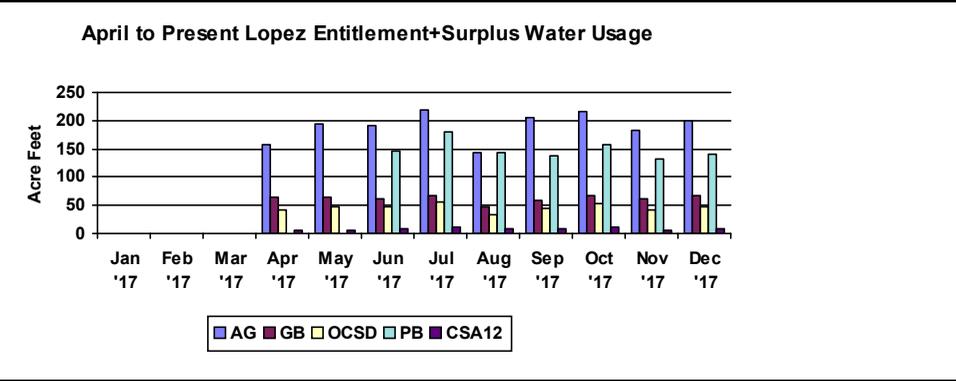
Andrea M Montes  
County of San Luis Obispo Public Works Department

# San Luis Obispo County Flood Control and Water District

## Zone 3 - Lopez Project - Monthly Operations Report

### December, 2017

Contractor	Lopez Water Deliveries												State Water Deliveries					Total Water Deliveries This Month				
	Entl.	Surplus	Total	This Month				April to Present				Annual Request	This Month			January to Present						
				Entitlement		Surplus		Entitlement		Surplus			Usage	% of Annual Request	SWP Deliveries	Change in Storage	Usage		% of Annual Request	SWP Deliveries		
				Usage	%	Usage	%	Usage	%	Usage	%											
Arroyo Grande	2290	1249.20	3539.20	199.77	8.7%	0.00	0.0%	1704.58	74.4%	0.00	0.0%	1704.58	48.2%						199.77			
Oceano CSD	303	840.50	1143.50	0.00	0.0%	47.00	5.6%	303.00	100.0%	118.00	14.0%	421.00	36.8%	227	0.00	0.0%			0.00	0.0%	47	
Grover Beach	800	240.20	1040.20	66.64	8.3%	0.00	0.0%	562.23	70.3%	0.00	0.0%	562.23	54.1%							66.64		
Pismo Beach	892	1834.20	2726.20	0.00	0.0%	141.58	7.7%	892.00	100.0%	144.35	7.9%	1036.35	38.0%	1120	0.00	0.0%			451.39	40.3%	141.58	
CSA 12	245	499.60	744.60	9.27	3.8%	0.00	0.0%	75.79	30.9%	0.00	0.0%	75.79	10.2%	27	3.24	12.0%			63.24	234.2%	12.51	
San Miguelito														127	8.10	6.4%			115.70	91.1%	8.1	
<b>Total</b>	<b>4530</b>	<b>4663.70</b>	<b>9193.70</b>	<b>275.68</b>	<b>6.1%</b>	<b>188.58</b>	<b>4.0%</b>	<b>3537.60</b>	<b>78.1%</b>	<b>262.35</b>	<b>5.6%</b>	<b>3799.95</b>	<b>41.3%</b>	<b>1501</b>	<b>11.34</b>	<b>0.8%</b>	<b>0</b>	<b>-11.34</b>	<b>630.33</b>	<b>42.0%</b>	<b>1295.00</b>	<b>475.60</b>
												Last Month Stored State Water		<b>1157.75</b>		This Month Stored State Water		<b>1146.41</b>				



Note: Deliveries are in acre feet. One acre foot = 325, 850 gallons or 43, 560 cubic feet. Safe yield is 8,730 acre feet.

"Year to Date" is January to present for State water, April to present for Lopez deliveries, and July to present for rainfall.

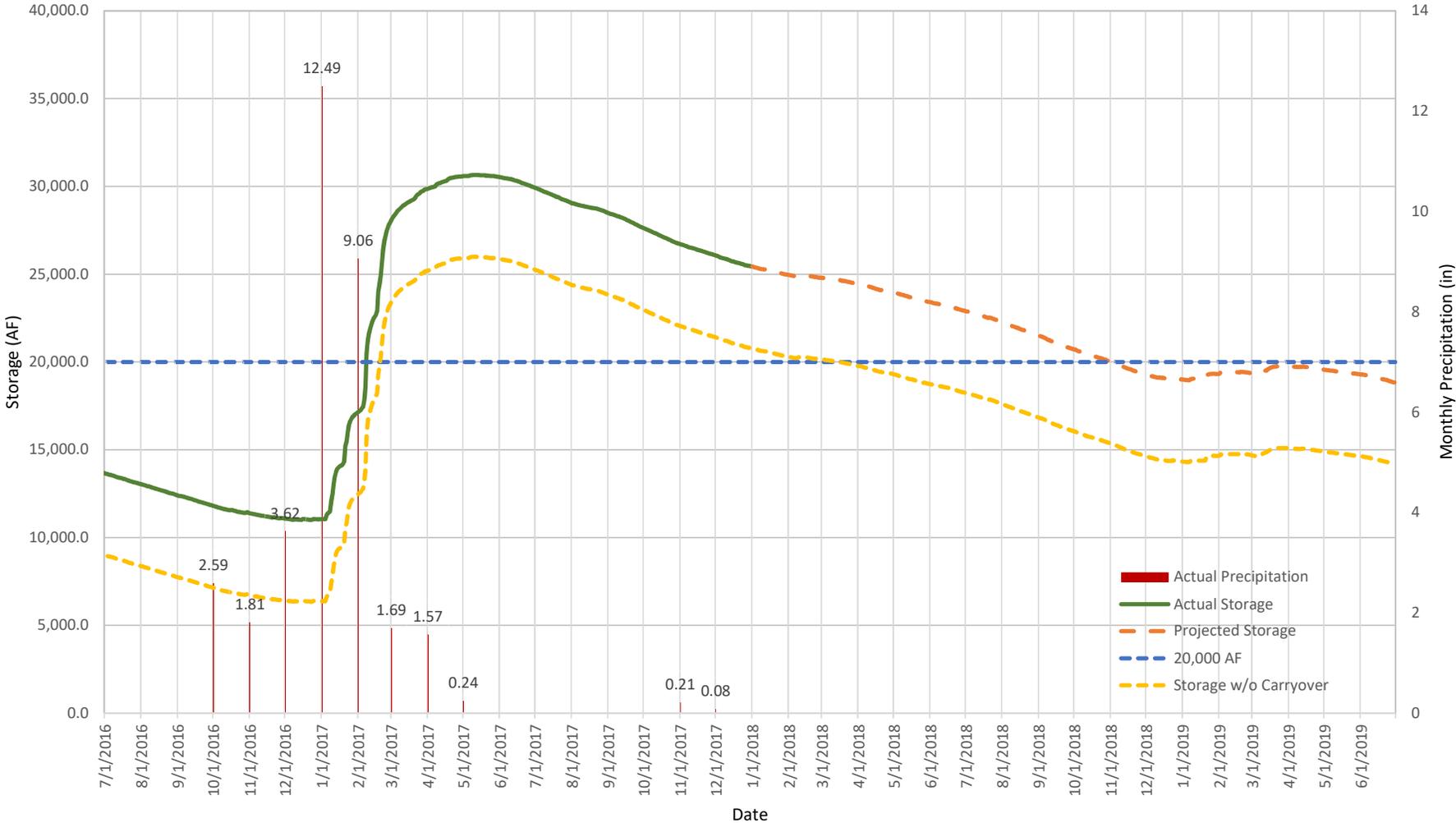
Lopez Dam Operations	This Month	Year to Date		
Lake Elevation (full at 522.37 feet)	490.78	-	Difference (feet)	-31.59
Storage (full at 49200 acre feet)	25419	-	% Full	51.7%
Rainfall	0.57	1.29		
Downstream Release (4200 acre feet/year)	261.96	2537.97		
Spillage (acre feet)	0	0.00		

**Comments:** Reservoir is currently operated under the Low Reservoir Response Plan. Reservoir is above 20,000 AF therefore no reduction in entitlements.

Surplus water shown is actually "Carry Over" water as designated in the LRRP and updated per BOS May 2, 2017 Declaration of Surplus.

1) Oceano supplied State Water to Canyon Crest via Arroyo Grande's Edna turn out. A total of 2.32 AF delivered to Canyon Crest was added to Oceano's State Water usage this month and 2.32 AF was subtracted from Arroyo Grande's usage this month.

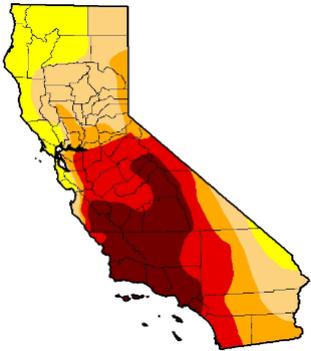
### LOPEZ RESERVOIR STORAGE PROJECTION



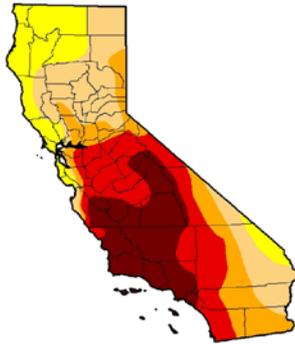
Note: Storage Projection is based on Water Years 14/15 and 15/16 municipal and downstream releases, rainfall, and evaporation.

# U.S. DROUGHT MONITOR

July 2016



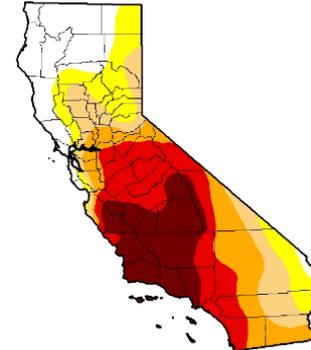
September 2016



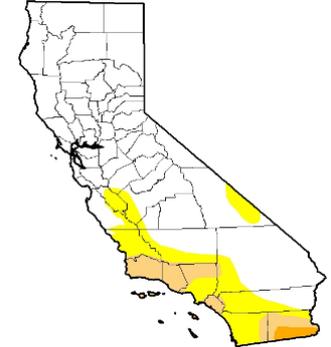
November 2016



January 2017



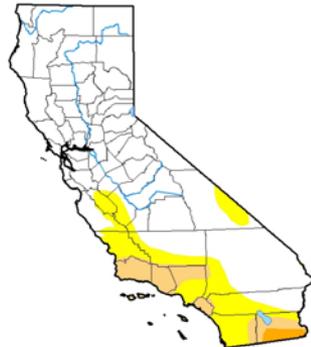
March 2017



May 2017



July 2017



September 2017



November 2017



January 2018



## Intensity:



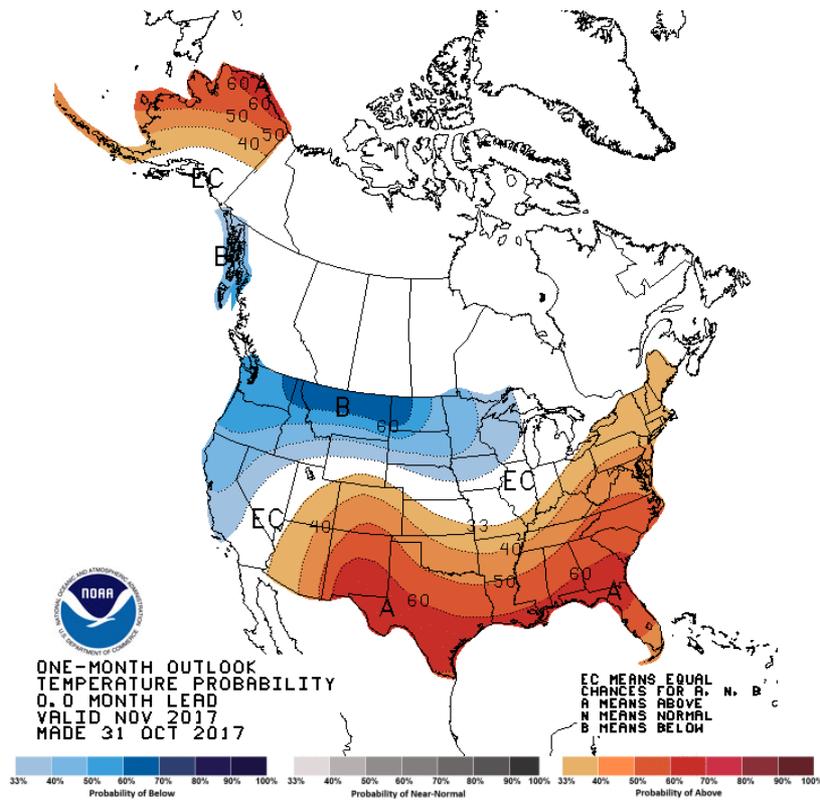
Permission to reproduce the map

If you reproduce the U.S. Drought Monitor map, please use this wording:

The U.S. Drought Monitor is jointly produced by the National Drought Mitigation Center at the University of Nebraska-Lincoln, the United States Department of Agriculture, and the National Oceanic and Atmospheric Administration. Map courtesy of NDMC-UNL.  
Item V. A.

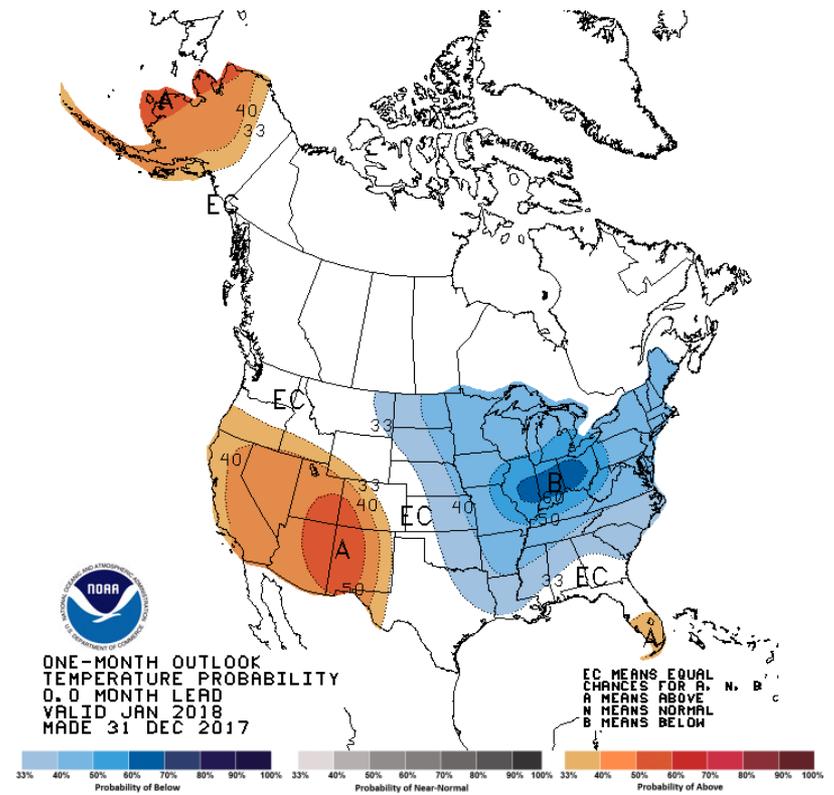
# NOAA TEMPERATURE FORECAST

## November



## November Meeting

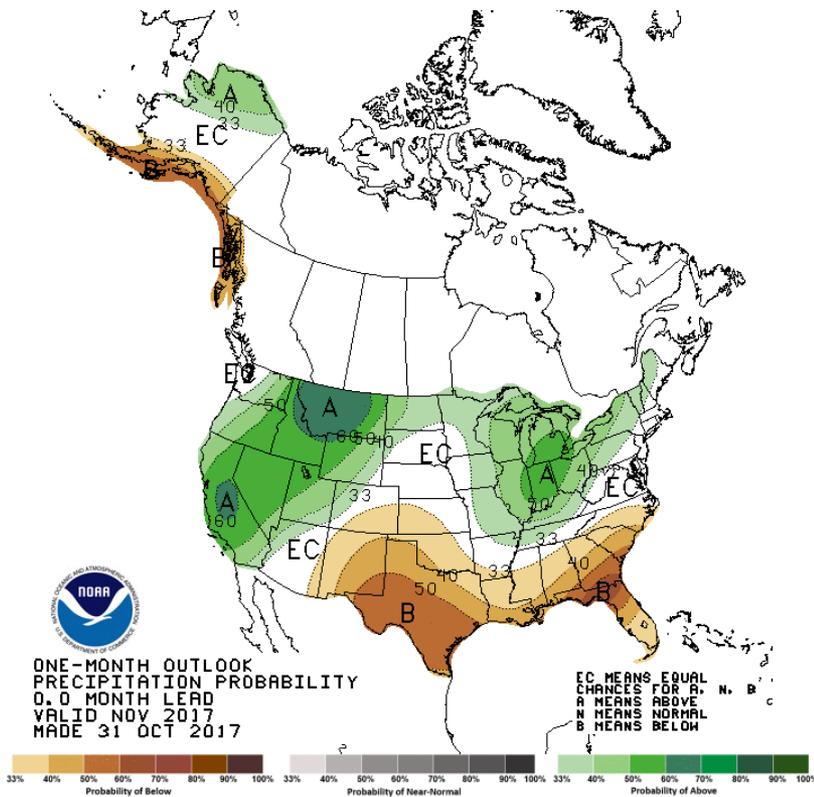
## January



## January Meeting

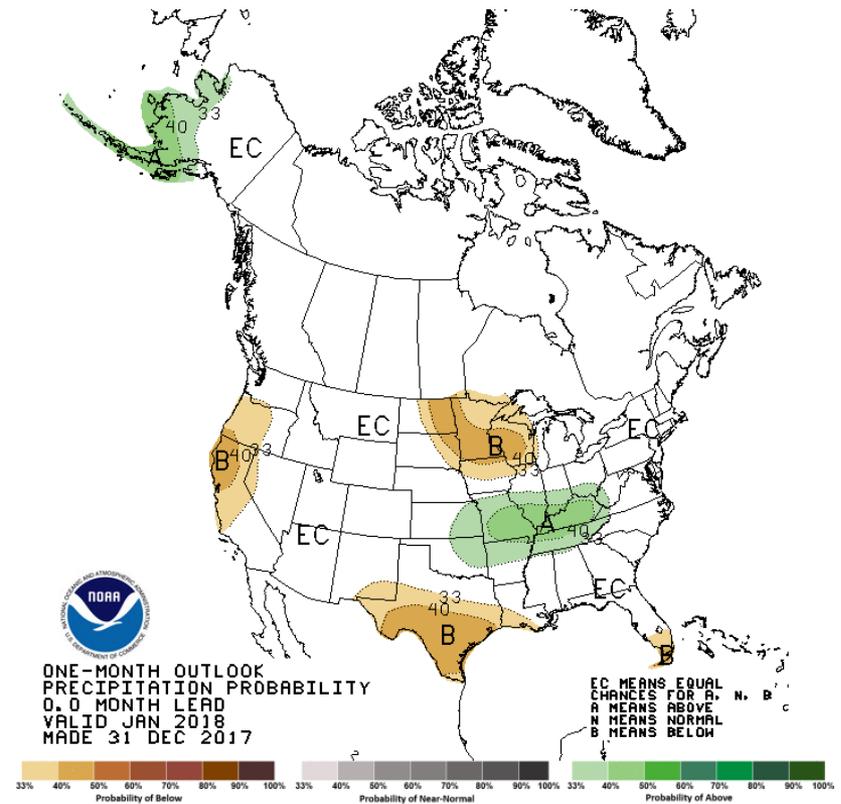
# NOAA PRECIPITATION FORECAST

## November



## November Meeting

## January



## January Meeting



## ZONE 3 ADVISORY COMMITTEE

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San Luis Obispo County Flood Control and Water Conservation District

**TO:** Zone 3 Technical Advisory Committee  
**FROM:** David Spiegel, PE  
**DATE:** January 18, 2018  
**SUBJECT:** Zone 3 Projects Update

### **Project Updates:**

- Equipment Audit & Replacement - Ongoing
  - Work proposed to continue in 2017/18
- Spillway Assessment – Due to be completed 17/18
  - Draft RFP in review
- Lopez Dam and Terminal Dam Hazard Classification – Due to be completed 17/18
  - Inundation Maps have been submitted to DSOD for review
  - Emergency Action Plans are in preparation
- Structural Assessment of Terminal Reservoir
  - Contract review
- Fault Zone Assessment – Dam Left Abutment
  - Contract review
- Equipment Storage
  - Requesting Quotes
- Lopez WTP Safety Upgrades
  - Working on implementing changes
- Domestic and Fire Tank
  - Getting quotes for repair work
- Ammonia Analyzer
  - Getting quotes for analyzers
  - Determining installation location

### **Upcoming Projects (Requested FY 2017/18):**

- Pressure Transducers
- Cathodic Protection Survey
- Rebuild Membrane Feed Pumps (1 per year)