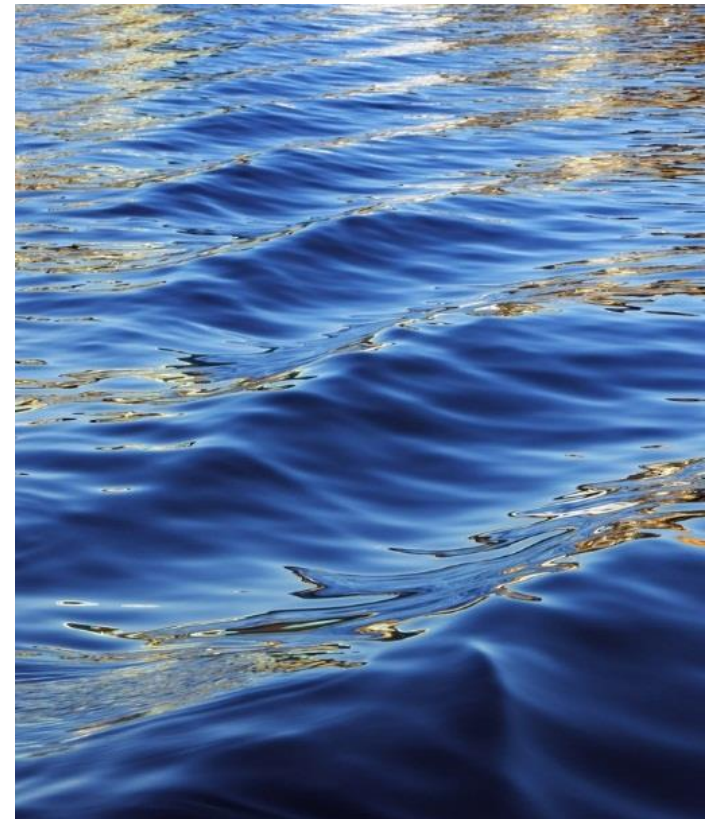




Klamath Project

Water Supply Update

5 March 2020



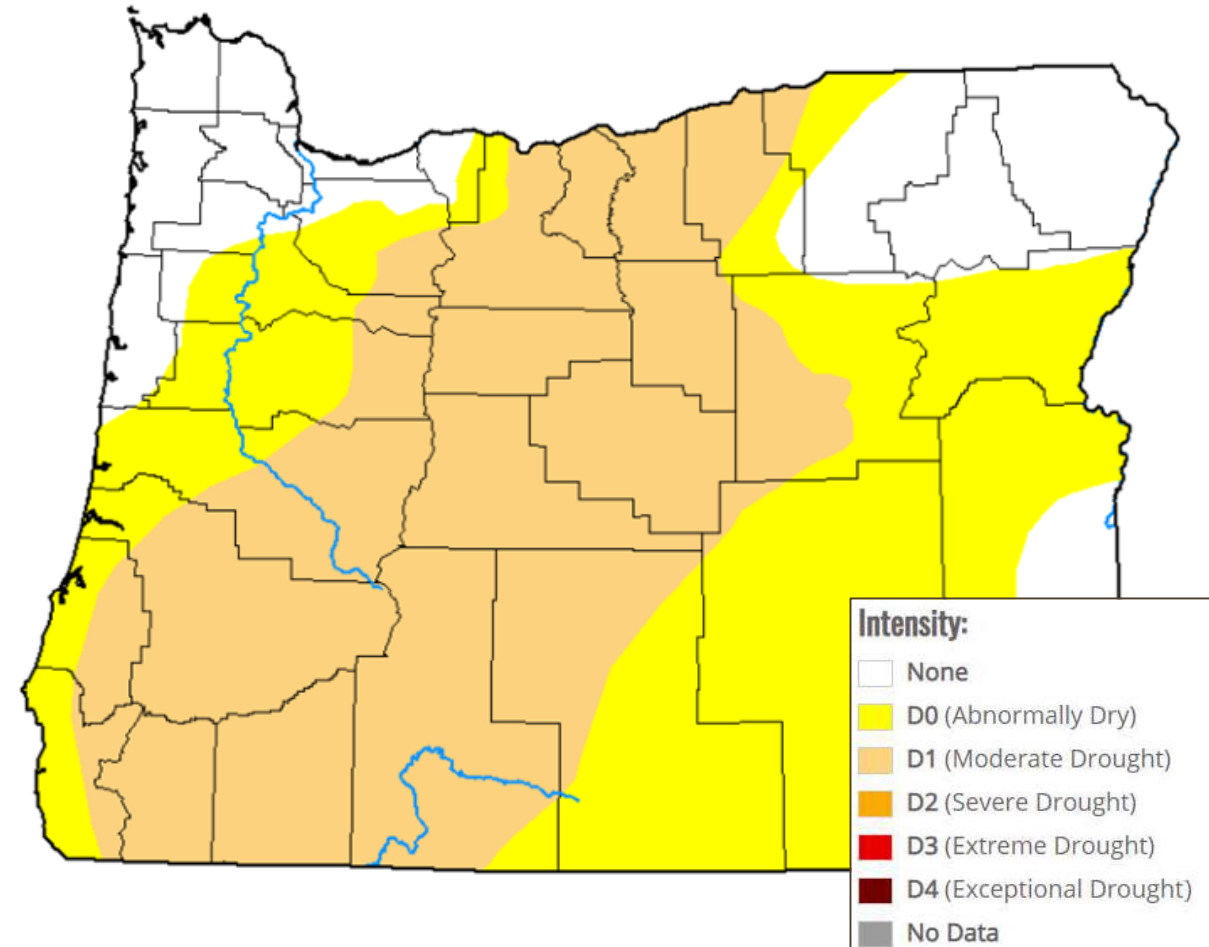
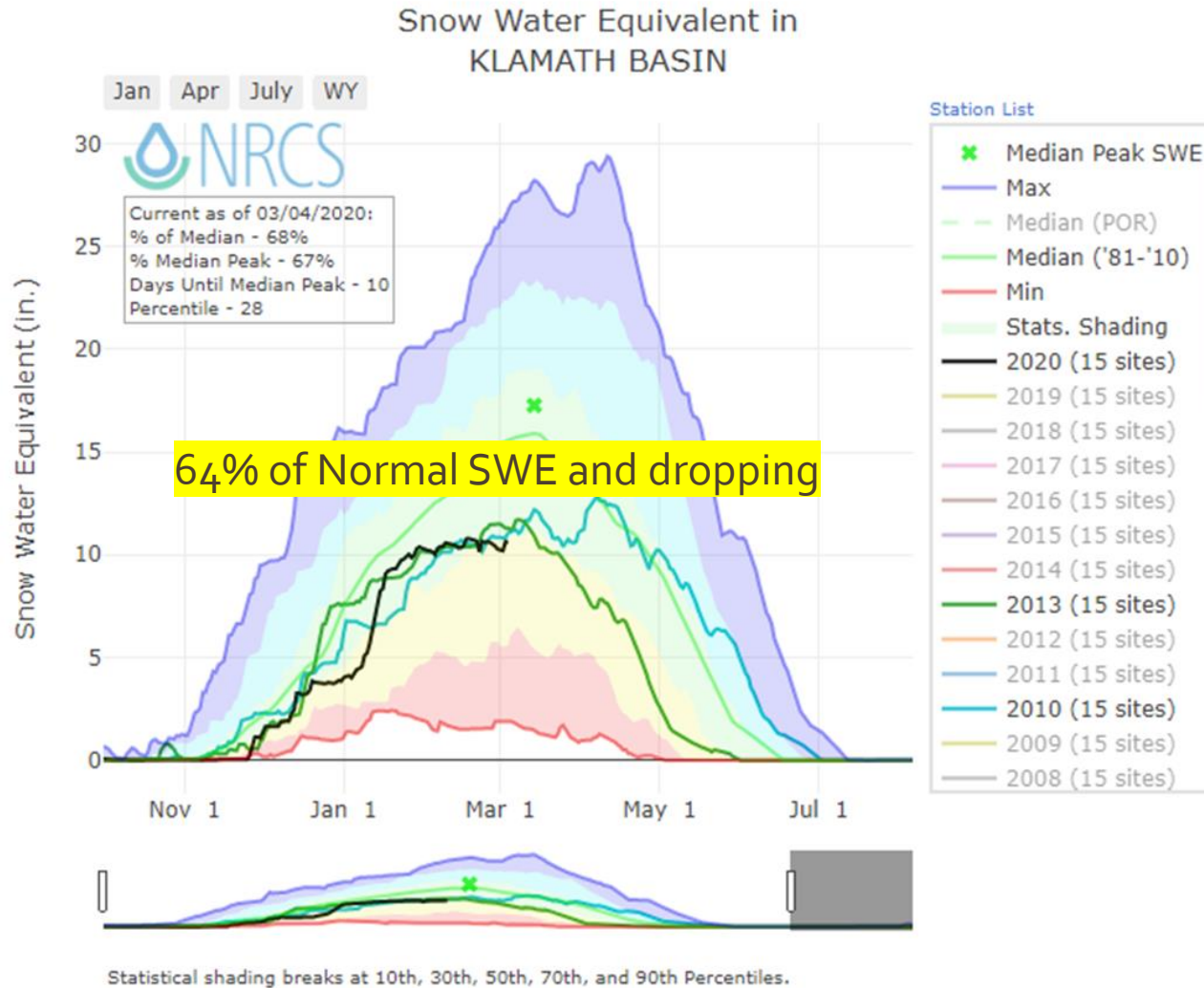


KWUA Water Update Agenda

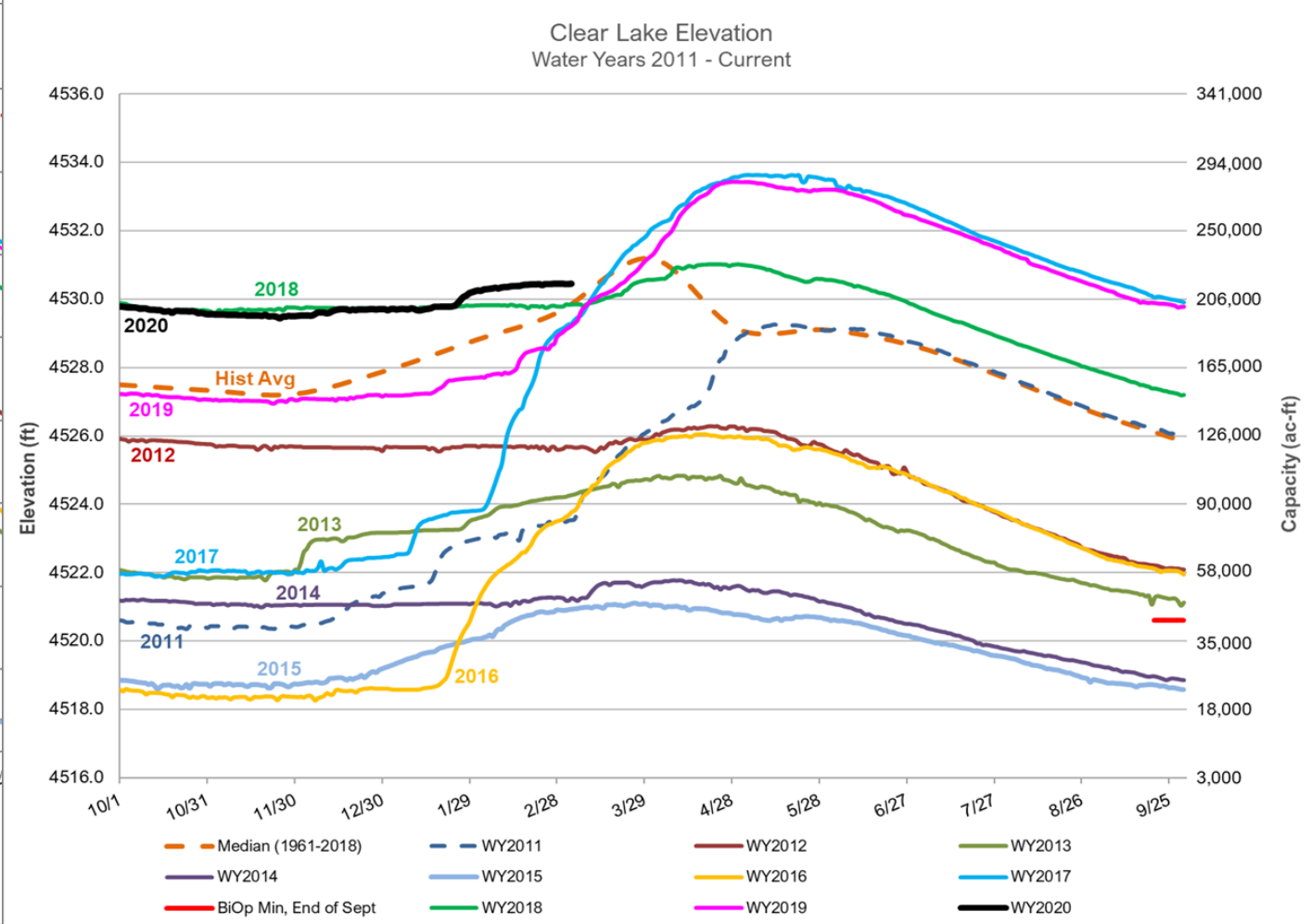
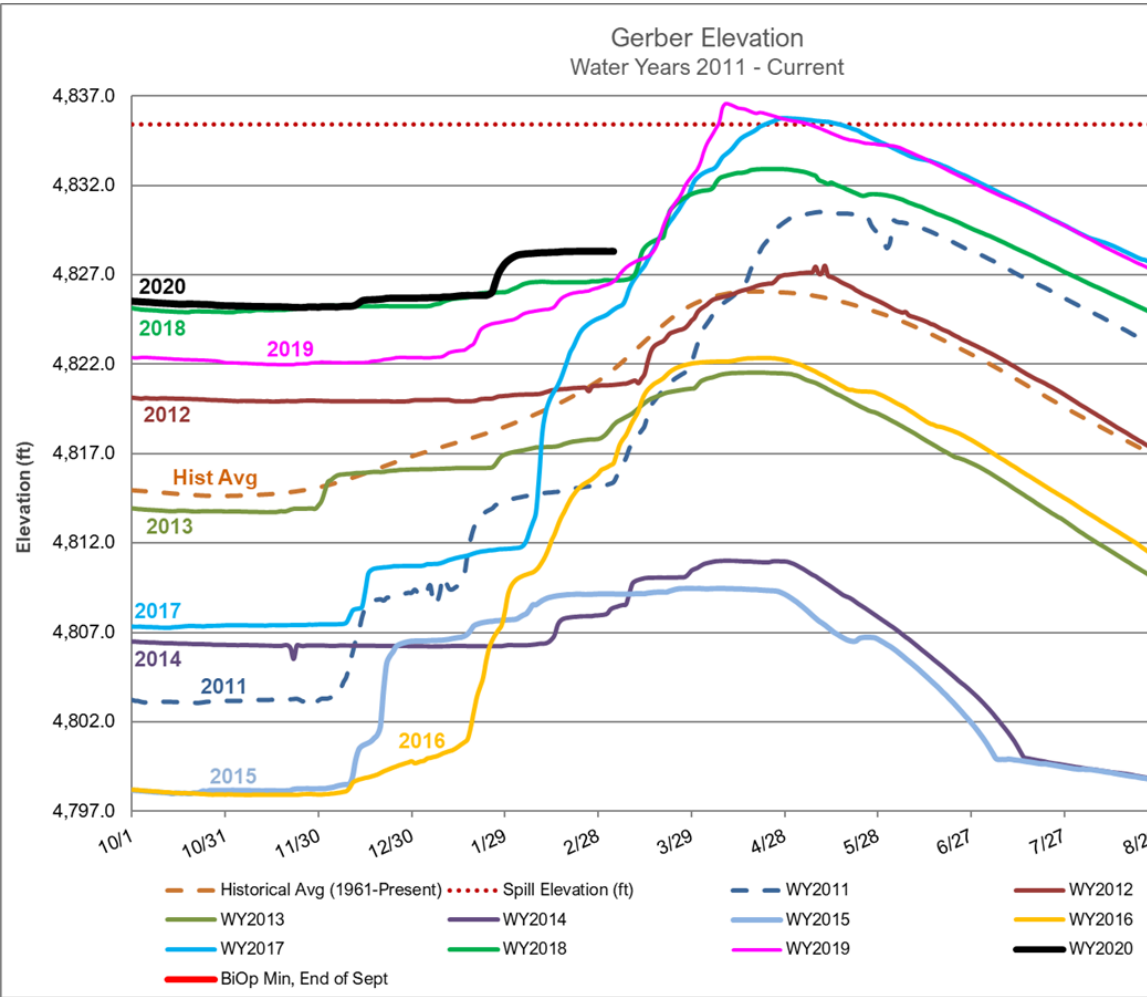
- ▶ Welcome and purpose of meeting
- ▶ Overview of meeting
- ▶ Water supply update
- ▶ Anticipated programs of Drought Response Agency
- ▶ Groundwater availability and use
 - ▶ AWIA – Project facilities conveyance
 - ▶ Oregon wells
- ▶ USDA
 - ▶ FSA
 - ▶ NRCS
- ▶ Drought Monitor
- ▶ Crop insurance
- ▶ More information and future updates
- ▶ Questions

2020 Water Year: October 2019 to Present

- DRY + WARM + WINDY =
- 4.88" Below Normal Precip

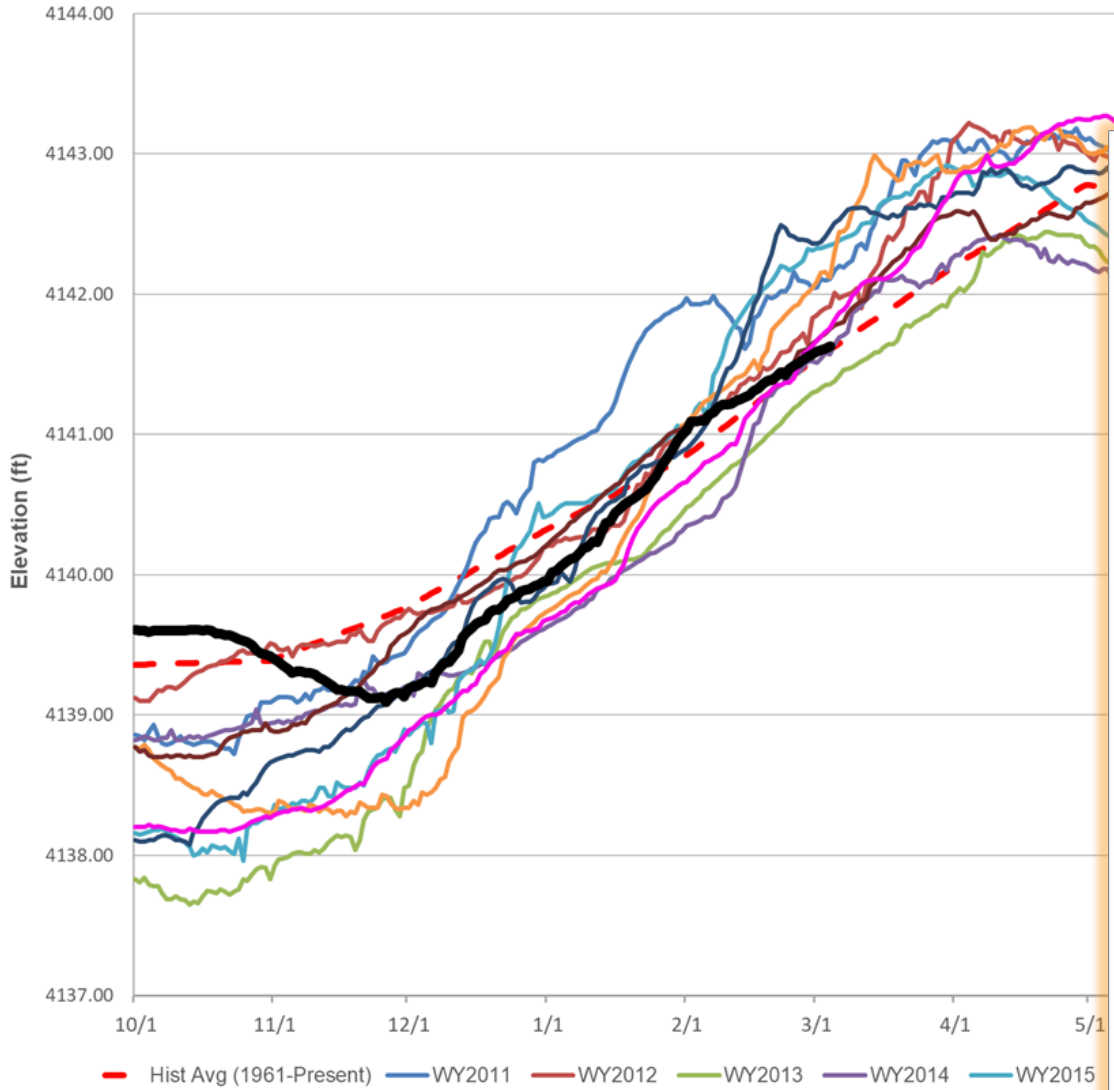


East Side Water Supply - Current

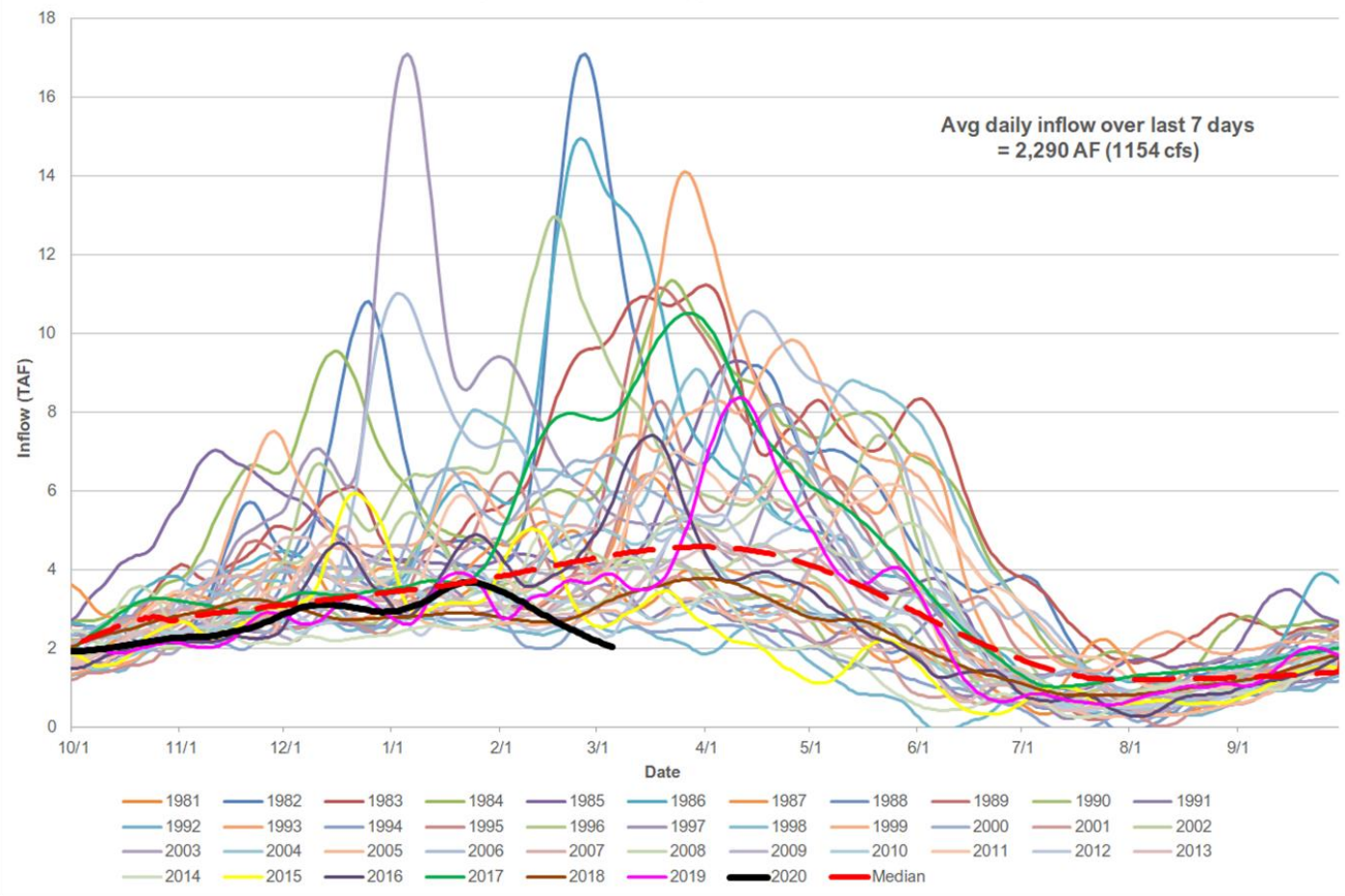


Upper Klamath Lake Conditions – Current (Similar to 1992)

UKL Elevation
Water Years 2011 - Current



Daily UKL Inflows Using LOESS for 39 Years

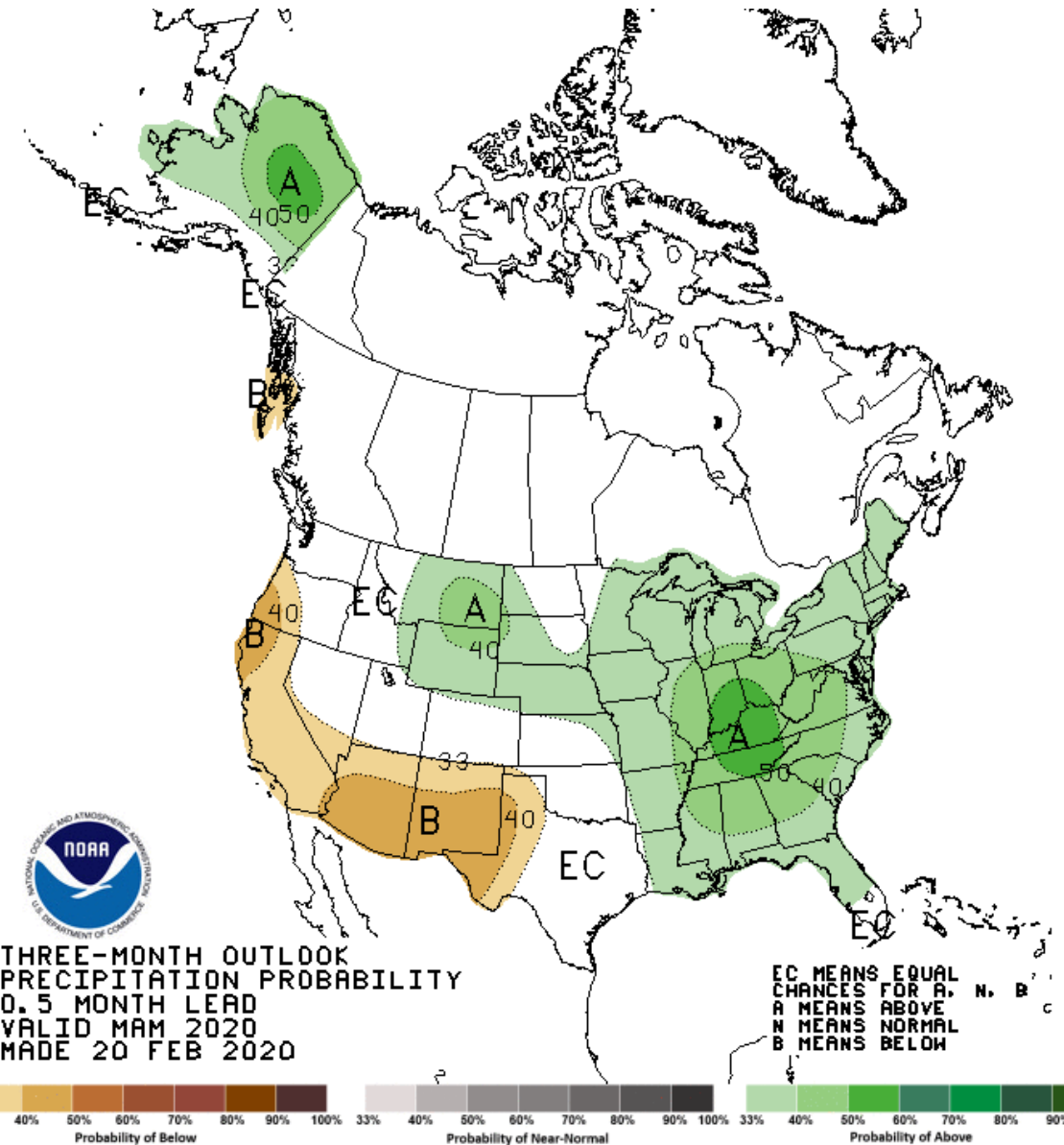
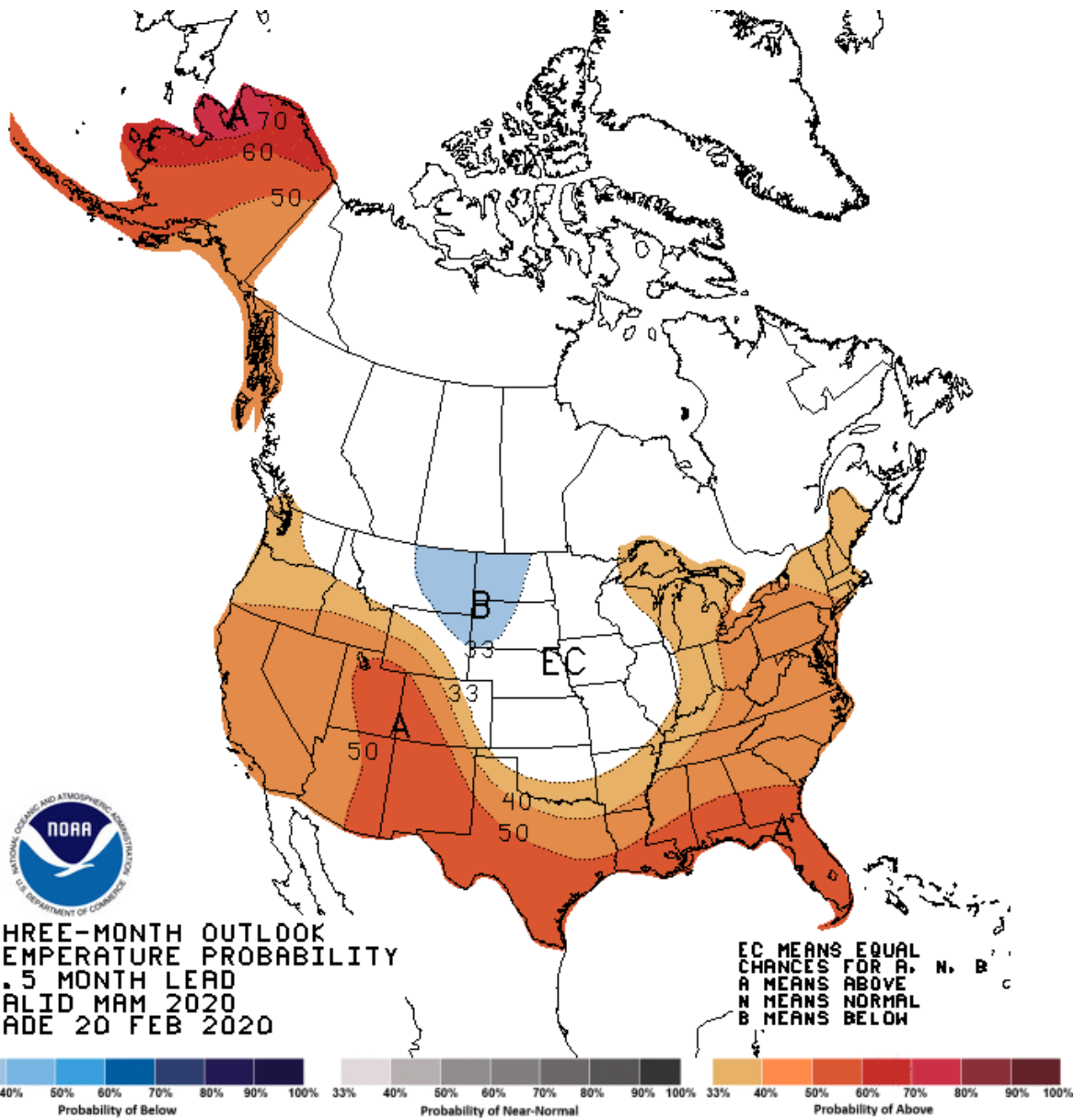


Weather Forecast

- DRY + WARM + WINDY
- Below normal precipitation
- Above normal temperatures

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1 Mostly Sunny Actual: 51° 29° 0 in	2 Cloudy Actual: 58° 29° 0 in	3 Mostly Sunny Actual: 66° 32° 0 in	4 Sunny Forecast: 67° 36° 0 in	5 Mostly Sunny Forecast: 69° 38° 0 in	6 PM Showers Forecast: 56° 34° 0.28 in	7 AM Rain/Snow Showers Forecast: 50° 27° 0.02 in
8 Mostly Cloudy Forecast: 55° 31° 0 in	9 Partly Cloudy Forecast: 57° 30° 0 in	10 Sunny Forecast: 65° 34° 0 in	11 Mostly Sunny Forecast: 66° 36° 0 in	12 Partly Cloudy Forecast: 63° 37° 0.03 in	13 Showers Forecast: 58° 37° 0.16 in	14 Showers Forecast: 57° 35° 0.13 in
15 Partly Cloudy Forecast: 57° 35° 0.05 in	16 AM Showers Forecast: 57° 34° 0.06 in	17 Showers Forecast: 54° 33° 0.4 in	18 Rain/Snow Showers Forecast: 55° 32° 0.1 in	19 Average: 58° 35° 0 in	20 Average: 58° 35° 0 in	21 Average: 59° 35° 0 in
22 Average: 59° 35° 0 in	23 Average: 59° 35° 0 in	24 Average: 59° 35° 0 in	25 Average: 59° 35° 0 in	26 Average: 60° 35° 0 in	27 Average: 60° 35° 0 in	28 Average: 60° 36° 0 in
29 Average: 60° 36° 0 in	30 Average: 60° 36° 0 in	31 Average: 61° 36° 0 in	1 Average: 61° 36° 0 in	2 Average: 61° 36° 0 in	3 Average: 61° 36° 0 in	4 Average: 61° 36° 0 in

3 Month Weather Outlook



Upper Klamath Lake Elevation Forecast - Reclamation

2019 Biological Opinion Allocations

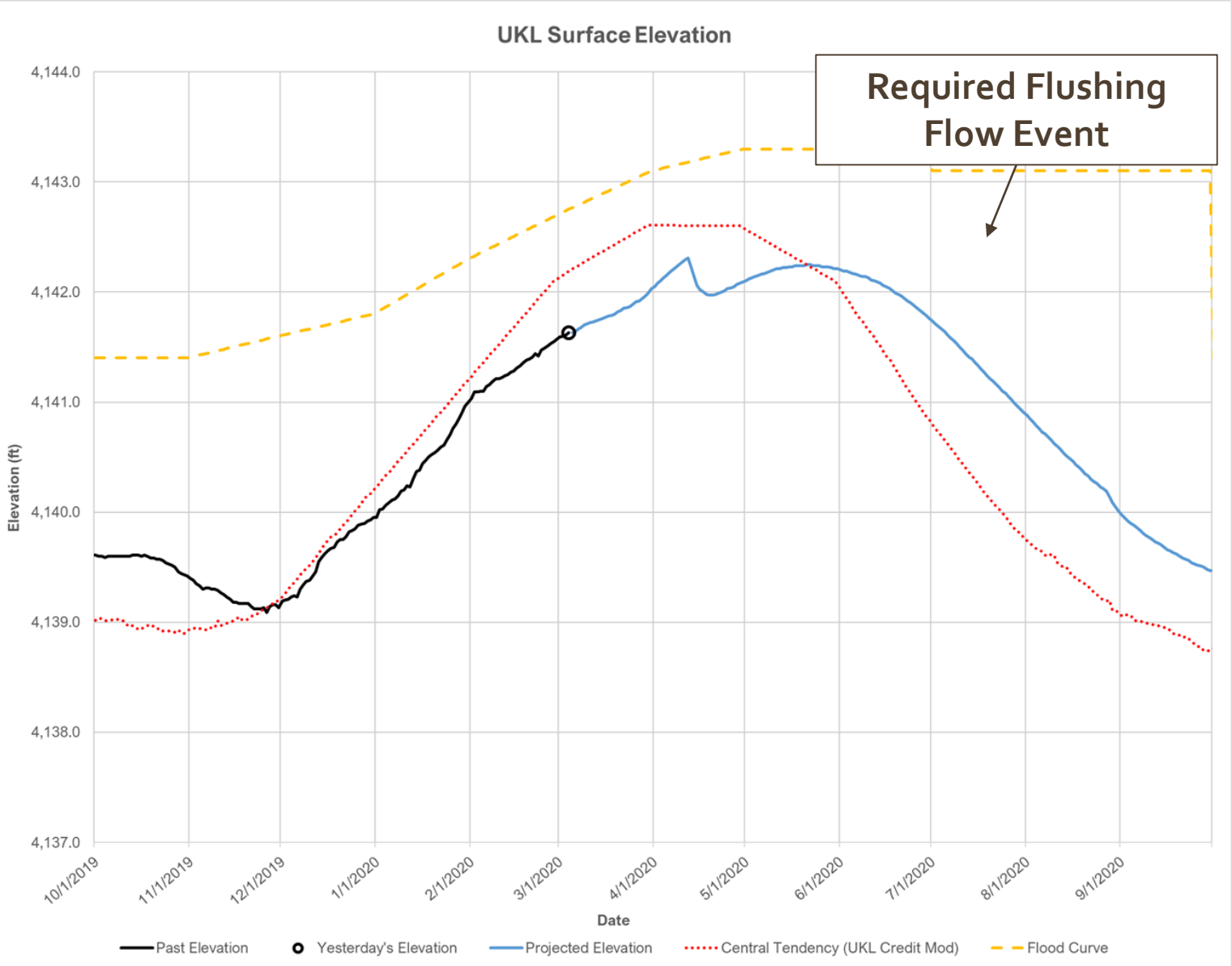
2020 is a "Boat Dance" year – 7000 AF of water in the fall reserved.

MINIMUM water for ESA = 407,000 AF

UKL Surface Elevation in May = preferred above 4,142 for Sucker spawning.

No minimum water amount established for irrigation

On-going litigation in Federal District Court for additional 50,000 AF to ESA / Tribal Purposes (407,000 min)





— BUREAU OF —
RECLAMATION

Final Biological Assessment

The Effects of the Proposed Action to Operate the Klamath Project from April 1, 2020 through March 31, 2024 on Federally Listed Threatened and Endangered Species

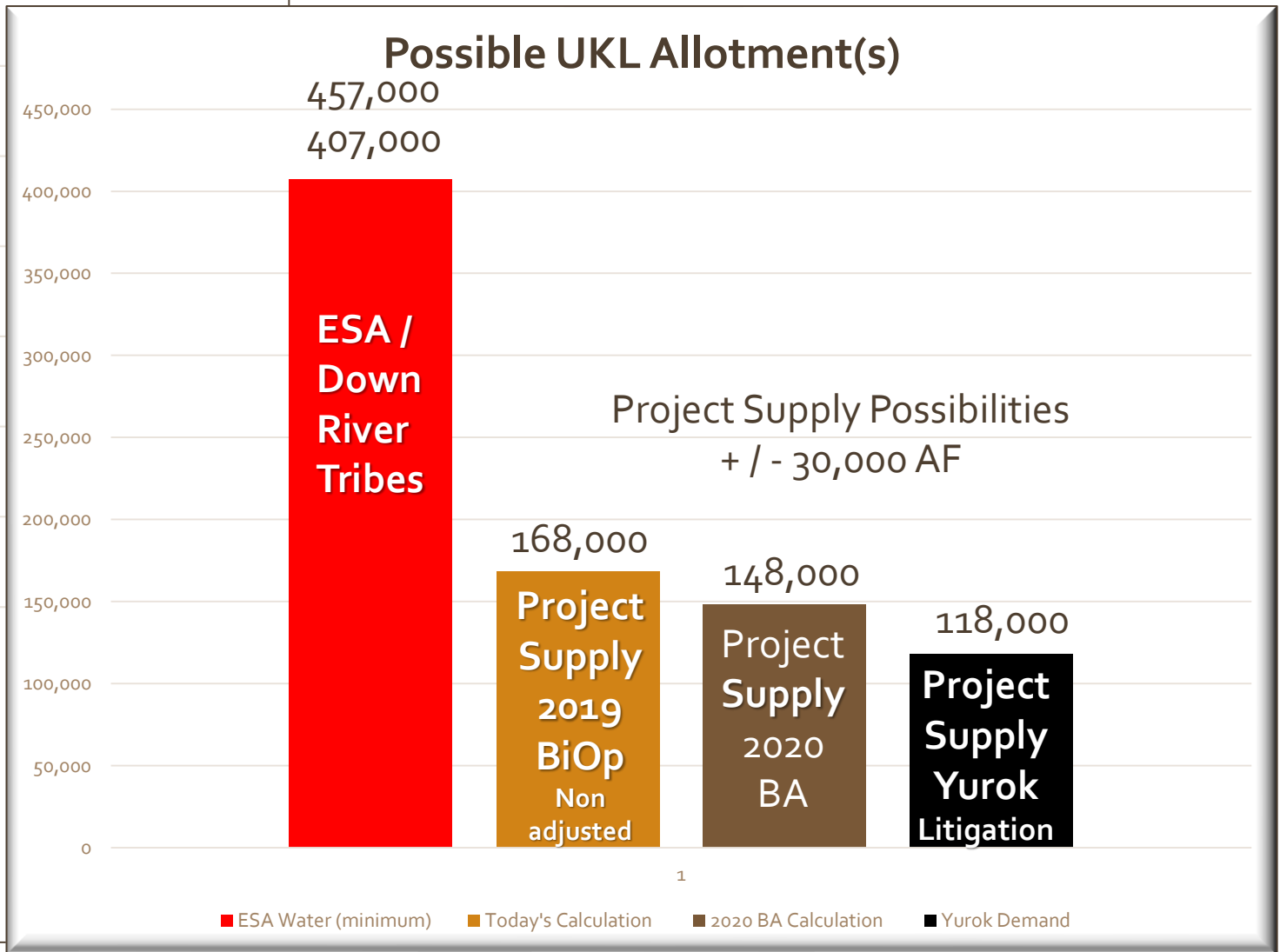
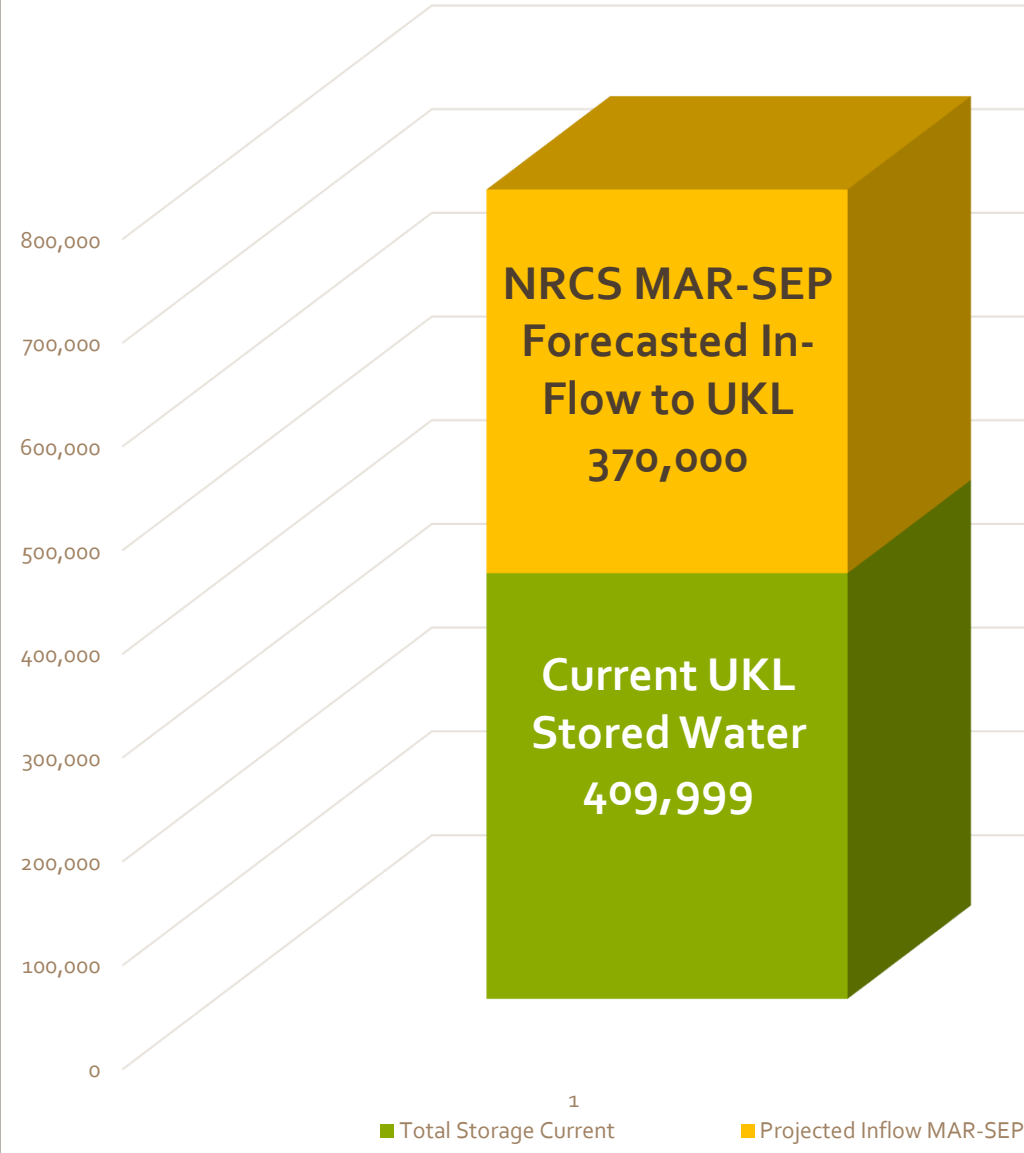
**Klamath Project, Oregon/California
Interior Region 10 California Great Basin**



U.S. Department of the Interior

February 2020

Upper Klamath Lake Storage and Inflow Projection Mar-Sep 2020



1 JEAN E. WILLIAMS, Deputy Assistant Attorney General
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 2 Environment & Natural Resources Division
 SETH M. BARSKY, Chief
 3 S. JAY GOVINDAN, Assistant Chief
 ROBERT P. WILLIAMS, Sr. Trial Attorney
 4 KAITLYN POIRIER, Trial Attorney
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 Email: robert.p.williams@usdoj.gov
 8 Email: kaitlyn.poirier@usdoj.gov

9 *Attorneys for Federal Defendants*

10 **UNITED STATES DISTRICT COURT**
 11 **FOR THE NORTHERN DISTRICT OF CALIFORNIA**
 12 **SAN FRANCISCO DIVISION**

13 YUROK TRIBE, PACIFIC COAST)	Case No. 3:19-cv-04405-WHO
14 FEDERATION OF FISHERMEN'S)	
15 ASSOCIATIONS, and INSTITUTE FOR)	STIPULATION TO CONTINUE
16)	HEARING DATE ON MOTION FOR
17 FISHERIES RESROUCES,)	PRELIMINARY INJUNCTION
18)	(ECF 27) AND MOTION TO
19 Plaintiffs,)	EXCLUDE EXTRA-RECORD
20)	EVIDENCE (ECF 50)
21 v.)	
22)	Hearing Date: March 6, 2020
23 U.S. BUREAU OF RECLAMATION and)	Hearing Time: 10:00 AM
24 NATIONAL MARINE FISHERIES)	Courtroom: 2, 17th Floor
25 SERVICE,)	Judge William H. Orrick
26)	
27 Defendants,)	
28)	
and)	
KLAMATH WATER USERS)	
ASSOCIATION,)	
Intervenor-Defendant.)	

Klamath Project Drought Response Agency

- Programs likely similar to 2015
 - Upfront program
 - Flow meters will likely be required for pumping
- Pumping subject to regulatory limits
- Significant Idling is likely necessary
- Conservation is Key
- More Details Coming Soon
- www.klamathwaterbank.com

Disclaimers

- Currently Available \$1.7 Million
- \$8 Million Pending Final Contract with Bureau and Generation of funds
- Groundwater/Pumping Program Authorized
- Land Idling Subject to Contracting with Bureau

Groundwater Access and Use

- ▶ Conveyance in Project Canals and Drains
 - No federal permit or contract needed
 - Comply with State water right
 - Measure water in and out
 - Coordinate with your district

Today's Discussion



- Pumping groundwater under supplemental rights
- Pumping groundwater under drought permits
- Water use transfers

Supplemental Groundwater Pumping

- Understand the limits of your groundwater rights
- Use is limited to the acres covered by the right
- Totalizing flow meters, where required, shall be installed prior to pumping
- Wells without a condition to measure may be required to install a meter

Drought Permits

- Emergency water use permit under OAR 690-019
- For use on lands in Oregon with underlying water rights (not for new irrigated acres)
- Available for wells where groundwater level declines are less than 20 feet
- Duty (volume) will be limited to 1-1.5(?) acre feet per acre
- Totalizing flow meters will be required prior to issuing drought permits



Temporary Drought Transfers OAR 690-019

- Must hold an existing right or claim subject to transfer
- May apply to change the use, place of use, or point of diversion
- Transfer can't result in injury to an existing right

Temporary Transfers under SB 206

- Determined claims can be temporarily transferred or leased instream
- Priority date is maintained
- Can be used to change the place of use

- Dani Watson– Watermaster
- Matt Anderson – Reg. Asst. Watermaster
- Michelle Angell – Asst. Watermaster
- Garrett Steensland – Asst. WatermasterHydrotech
- Kyle Gorman – Region Manager (Bend)



MPCI Prevent Plant

By: Just a Farmer... Tricia Hill

Disclaimers

- 1) I do not work for RMA (Risk Management Agency)
- 2) I am not an insurance agent
- 3) I am not a Power Point Master

.....

But I've been managing my farm's Crop Insurance and helping clarify Klamath Basin Producers' prevent plant concerns for over a decade.

Proof of Cause of Loss

- Words are important when it comes to Prevent Plant due to lack of irrigation water.
- Good News! The Regional Office of RMA and Bureau of Reclamation Area Office are on top of this! They are coordinating regarding documentation of our drought.

Prevent Plant Resources

1) Your Agent is Your Best Resource!
And your Adjuster your Best Friend.

(From 2020 Prevent Planting Standards Handbook: Part 3, Section 24(B)(1))

(ii) The adjuster must verify the insured's established irrigation method and that the COL claimed by the insured was the sole reason the irrigation method could not be established.


Prevent Plant Resources

2) Prevent Plant Handbook

As government documents go, fairly easy to find online (search “Prevent Plant Handbook” or pick up a handout in the back) and not too hard to read.

Rules To Remember

1) Lease Ground Rules (From RMA in 2018-
See Original in Handout)



Scenario 1: Producer/insured leased 100 acres last year and the lease expired by the end of the year. Producer/insured renewed the 100 acre lease for with same landlord for the same acreage farmed last year.

Acreage you leased the previous crop year and continue to lease in the current crop year is eligible for prevented planted coverage.

Rules To Remember

Lease Ground Rules (Continued)

Scenario 2: Producer leased 100 acres last year & the lease expired by 12.31. Producer leased 100 acre for this year with the same landlord for a different 100 acres farmed last year.

- 1) The newly leased acres are not eligible for prevented plant (Section 17(f)(12)(i))
- 2) It doesn't matter if Producer farmed 100 leased acres last year and will farm another 100 leased acres this year. (Example: Potato Rotation)
- 3) Number #2 doesn't change if the acreage is with the same landlord.
- 4) Timing does make a difference. If the lease for the new ground is executed before the cause of loss occurred, then the ground may be eligible for Prevent Plant if all other requirements are met.

Rules To Remember

2) Payments from DRA (From RMA 2018)

Payments from the DRA Will Not Affect Eligibility for Prevent Plant (Based on 2018 Contract Language)

---- The Basic Provisions limit receiving multiple benefits for the same loss under USDA programs. The funding that is received from the the Bureau of Reclamation via DRA is not from a USDA agency and will have no impact on the insurance program– as long as another crop was not planted on those acres that received a PP payment.----

Rules To Remember

3) Cover Crop Rules (2020 Prevent Planting Standards Handbook: Part 4, 41)



1) Planting a Cover Crop alone will not make those acres ineligible for Prevent Plant.

2) How you dispose of that Cover Crop **CAN** effect your Prevent Plant Crop Insurance.

Rules To Remember

4) Cover Crop Rules (2020 Prevent Planting Standards Handbook: Part 4, 41)


3) The important date is November 1st!

a) If you hay, graze, silage, etc before 11-1 your prevent plant payment is reduced.

b) If you hay, graze, silage, etc AFTER 11-1 you get the full payment.

c) But harvesting for “seed” (AKA “grain”) will result in **no eligibility** for Prevent Plant

Don't Forget



Even though your thoughts are with Prevent Plant documentation, don't forget documentation for why you believe you have enough irrigation water for the crop you are planting!

Don't Forget

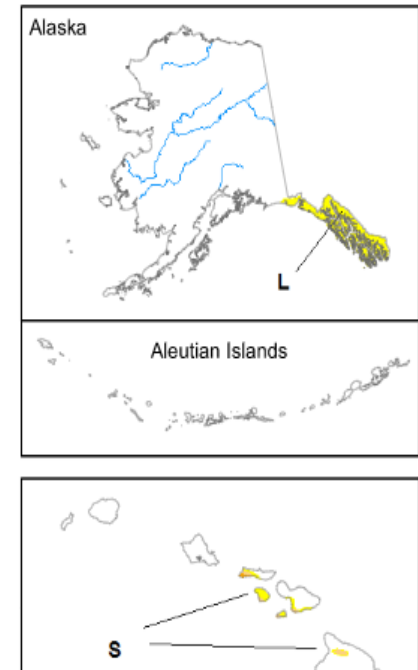
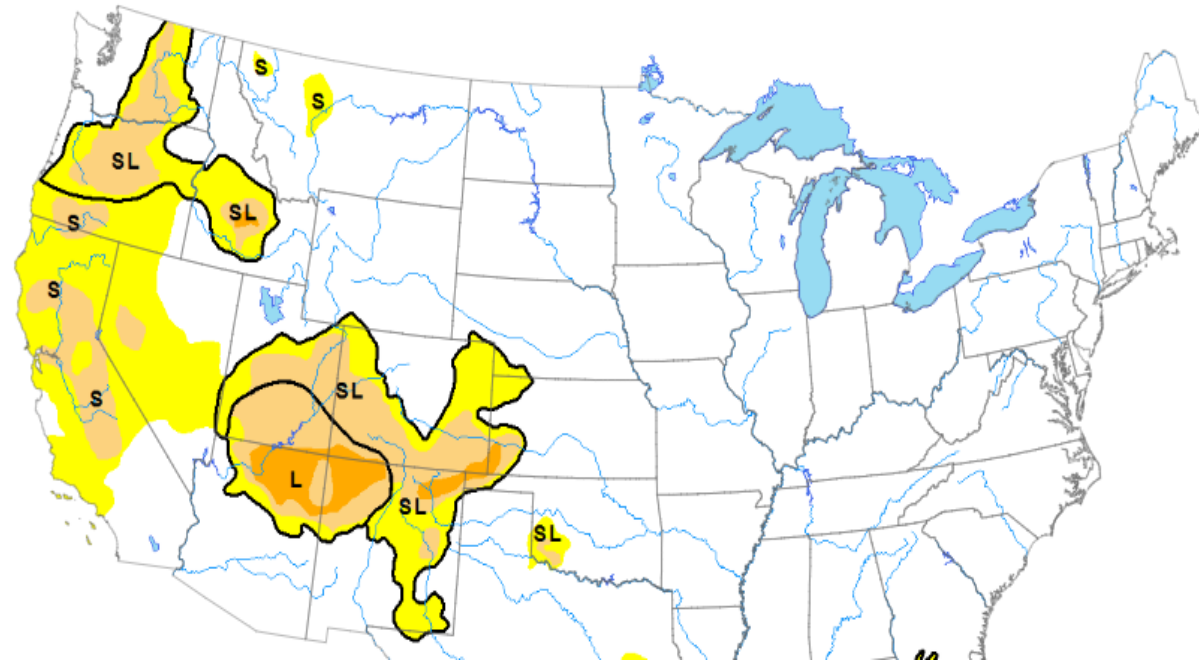


Handouts with verbatim language from RMA and the PP Handbook are in the back.

Again, if you have questions, please talk to your agent first– they should be your expert!

Map released: February 27, 2020

Data valid: February 25, 2020



If you go to the following page you can check on the current status of the USDA Drought Monitor

<https://droughtmonitor.unl.edu/>

The data cutoff for Drought Monitor maps is each Tuesday at 7 a.m. EST. The maps, which are based on analysis of the data, are released each Thursday at 8:30 a.m. Eastern Time.

Intensity and Impacts

None

D0 (Abnormally Dry)


D1 (Moderate Drought)

D2 (Severe Drought)

D3 (Extreme Drought)

D4 (Exceptional Drought)

No Data

 - Delineates dominant impacts

S - Short-Term impacts, typically less than 6 months (e.g. agriculture, grasslands)

L - Long-Term impacts, typically greater than 6 months (e.g. hydrology, ecology)

Map Download

United States and Puerto Rico (Page 1)

Current map:     

Previous map:     

U.S. Affiliated Pacific Islands and Virgin Islands (Page 2)

If you scroll down you can see the rating. So according to this we are in Moderate Drought with Short-Term impacts.

We generally include a description on the map of what the primary physical effects are for short- and long-term drought.

- S = Drought typically less than 6 months (e.g. agriculture and grasslands)
- L = Drought typically more than 6 months (e.g. hydrology, ecology)

[Learn more](#)

Drought Impact Reporter

How is drought affecting you? Submit drought impact and condition reports via the Drought Impact Reporter.

[Submit report](#)

Climate Literacy and Energy Awareness Network (CLEAN)



The U.S. Drought Monitor website has been selected for inclusion in the CLEAN



To give input that the USDA will use to determine the severity of a drought, you can scroll to the bottom of the last page and click to “Submit Report” under the Drought Impact Reporter.

Condition Monitoring Observations

Condition Monitoring Observations

Citizen scientists use a dry-to-wet scale to capture what they see at a specific place and time.

Submit and view observations



Report drought-related conditions and impacts within the U.S. This is a nation-wide service provided by the National Drought Mitigation Center, based at the University of Nebraska, in partnership with the National Integrated Drought Information System. Information submitted by this form appears on this map and becomes part of a permanent public record. Please note that this form is not part of the process to apply for assistance. To participate, you must legally be an adult, at least 18 years old in most states, 19 in Nebraska or Alabama, or 21 in Mississippi. By submitting information, you agree that it may be used in drought monitoring research. Questions? Please email DIRinfo@unl.edu.

[Submit a Report](#)

[2020 Map](#)

[Archive](#)

[Download Factsheet](#)

Or you can go directly to the page to report on how the drought is affecting you and select "Submit a Report"

Where are you?*

Position the marker on the map for your location using one of three methods: 1) Click on the round compass icon and allow access to your location. 2) Enter an address or the name of a place in the search window. 3) Drag the map until the marker points to the correct location. Use the plus or minus if you want to zoom in or out after you have placed the marker. Scrolling will move the marker.



Select your jurisdiction: ▼

Select a state/territory:

This will help us spot wrong locations but does not position your report correctly on the map. Use the marker on the map above to make sure your report shows up in the right place.

Next you will tell the USDA where you are located. They want you to drop a pin, not just list the County & State (I tried being lazy the first time around), you zoom in and then select the circle.

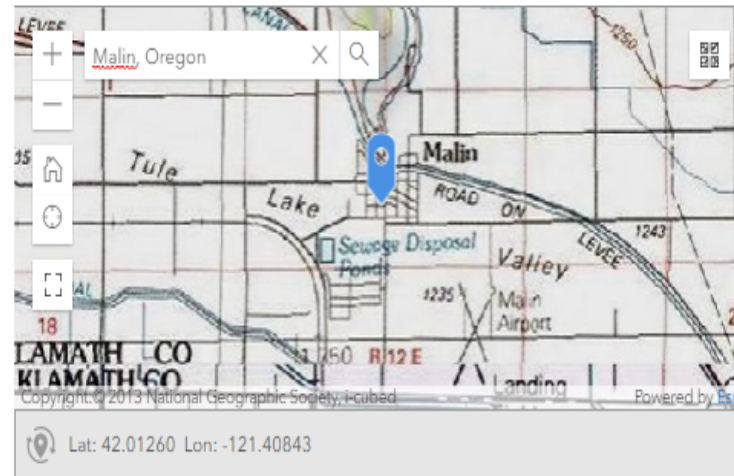
Drought Condition Monitoring Observations and Reports

Introduction

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Or you can use the search bar to type in a City. Here I've used their search bar to enter Malin, Oregon.

Here I've selected Oregon & Klamath County-

Drought Condition Monitoring Observations and Reports

Introduction

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Select your jurisdiction: 📍

Select a state/territory:

This will help us spot among locations but does not position your report correctly on the map. Use the marker on the map above to make sure your report shows up in the right place.

Select a local jurisdiction:

This will help us spot among locations but does not position your report correctly on the map. Use the marker on the map above to make sure your report shows up in the right place.

What is the date?

Please use the calendar to select the date of your observation, if it is other than today.

3/3/20

How dry or wet is it?*

Please use what you know about your part of the country and base your observation on what is normal for this time of year. A normal dry season is not the same as drought.

Severely Dry: There is no soil moisture. Ponds, lakes, streams and wells may be nearly empty or dry. Producers may have crop or pasture losses. Mandatory water restrictions may be in place.

Moderately Dry: Plants may be brown due to dry conditions. Streams, reservoirs or well water levels may be low. Voluntary water use restrictions may be in place. There may be water shortages. Plants, crops or pastures may be stressed. Soil is dry.

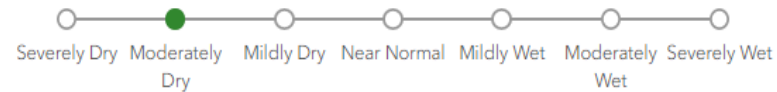
Mildly Dry: Growth may have slowed for plants, crops or pastures. Soil is somewhat dry. Local plants, pastures or crops may not have fully recovered if conditions are changing from drier to wetter.

Near Normal: What you're seeing is what you expect for this time of year.


Mildly Wet: Local plants, crops or pastures are healthy, recovering from dry conditions or draining from wet conditions. Soil moisture is above normal.

Moderately Wet: Local plants, crops or pastures are healthy and lush. Soil is very damp and the ground may be saturated with water. There may be standing water in low areas and ditches. Water bodies may be fuller than normal.

Severely Wet: Water levels in lakes, streams and ponds are well above normal. Standing water covers some areas that are normally dry. Soil is wet and ground is completely saturated. There may be flooding.



Next let the USDA know the date & how dry it is. I think things are not great. . .



How much experience do you have with conditions there?

less than 5 years

5-10 years

10-20 years

20 or more years

How many times in the past have you seen it like this?

Never

Once

Twice or more

Other

When was it most recently like this?

2010 ▾

Now let the USDA know about your experience in the area & how you would compare to other years. . . Now let the USDA know about your experience in the area & how you would compare to other years. . .

How localized or widespread are the conditions you are reporting?

Drought conditions in Klamath County, Oregon, as well as Siskiyou and Modoc Counties, California.

901

- Report crop production impact
- Report livestock production impact
- Report municipal water supply impact
- Report community hydropower impact
- Report health impact
- Report household impact
- Report recreation or tourism impact
- Report other business or industry impact
- Report fire impact
- Report forest impact
- Report wildlife impact
- Report freshwater fish impact
- Report spawning fish impact


Now you are getting ready to go down to the specifics you want to report. The initial page looks like this-

Report crop production impact

Crop production
Please use the check boxes to tell us what effects of drought you have experienced and what actions you have taken.

- Less water for irrigation
- Reduced yield
- Insect infestation
- Crop disease
- Plant stress
- Added well, dam, pipe, etc.
- Increased irrigation
- Erosion
- Less water in ponds, creeks, etc.
- Other
Air quality and soil erosion due to blowing soils.

You can then select the specific area you want to report on. I'm going to select the green arrow next to "Report crop production impact." I've then filled out the questions that come up. I've also mentioned soil erosion and air quality issues under "Other."

Press here to choose image file. (<10MB) 

Description and/or caption information
Did you upload a photo? If so please tell us how we should credit the photo, and what it is showing us.
Please provide any other description that will help us understand the drought impact or conditions that you checked, for example: What kind of crops do you grow? What kind of animals do you raise? Do you rely on your own well or are you part of a municipal system?

Your name
This is optional and will not be published or shared. It would be helpful in case we need to contact you for more information.

Your organization
This is optional and will not be published or shared. It would be helpful in case we need to contact you for more information.

Your email
This is optional and will not be published or shared. It would be helpful in case we need to contact you for more information.

Identification code
Please enter your observer code if one has been provided to you.

Powered by Survey123 for ArcGIS

You can then choose to upload a photo, provide your name, company, or email. But most importantly click “Submit”

Drought Condition Monitoring Observations and Reports



Great! Your data was sent successfully. Thanks.

Powered by Survey123 for ArcGIS

Once you successful submit you will get this message-