

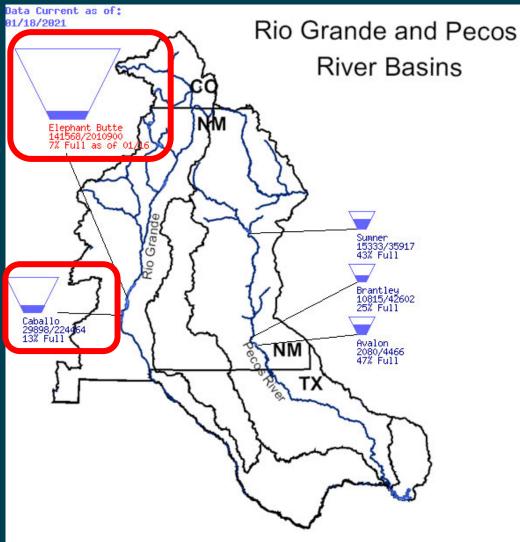
RIO GRANDE PROJECT

1906 Meeting

January 20, 2021



Current Project Storage Conditions



2021 STORAGE (AF)	2020 STORAGE (AF)
144,388	564,476
29,926	33,993
174,314	598,469
595	897
161	194
173,558	597,378
	STORAGE (AF) 144,388 29,926 174,314 595 161



EL NIÑO/SOUTHERN OSCILLATION (ENSO)

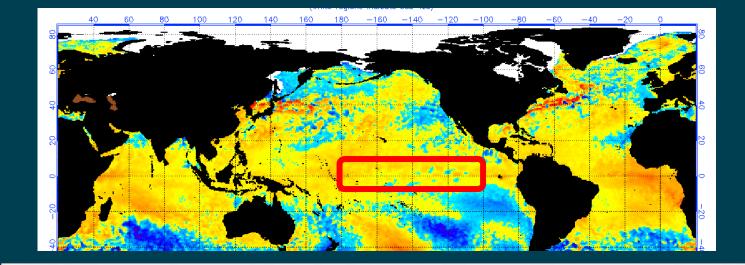
DIAGNOSTIC DISCUSSION

January 14, 2021

ENSO Alert System Status: La Niña Advisory

Synopsis: La Niña is expected to continue through the Northern Hemisphere winter 2020-21 (~95% chance during January-March), with a potential transition to ENSO-neutral during the spring 2021 (55% chance during April-June).

- La Niña continued during December
- Tropical convection continued to be suppressed over the western and central Pacific
- A majority of the IRI/CPC models IRI/CPC plume predict La Niña to continue through the Northern Hemisphere spring 2020-21 and a transition to ENSO neutral in the late spring 2021.



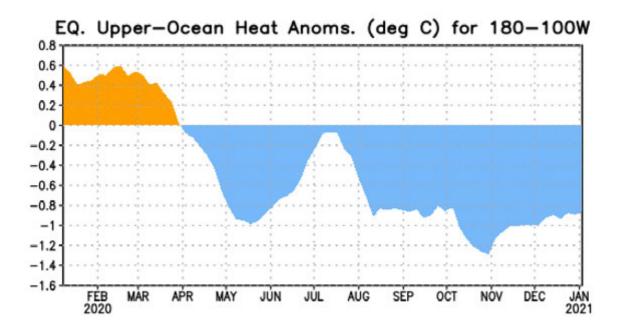


Figure 3. Area-averaged upper-ocean heat content anomaly (°C) in the equatorial Pacific (5°N-5°S, 180°-100°W). The heat content anomaly is computed as the departure from the 1981-2010 base period pentad means.



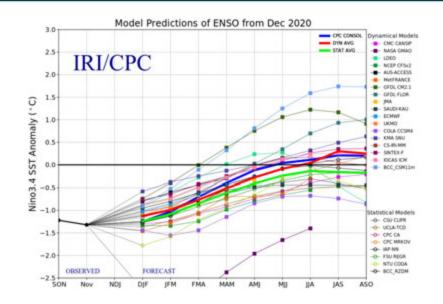
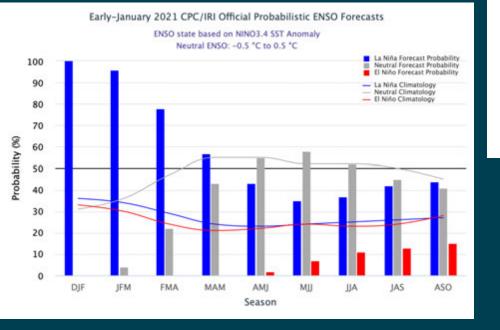
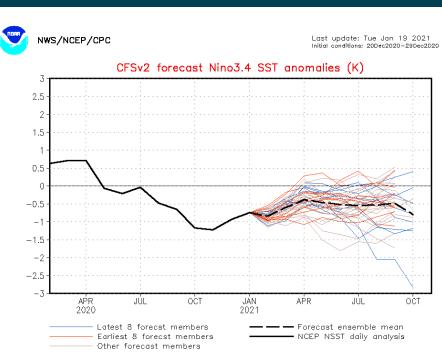


Figure 6. Forecasts of sea surface temperature (SST) anomalies for the Niño 3.4 region (5°N-5°S, 120°W-170°W). Figure updated 19 December 2020.



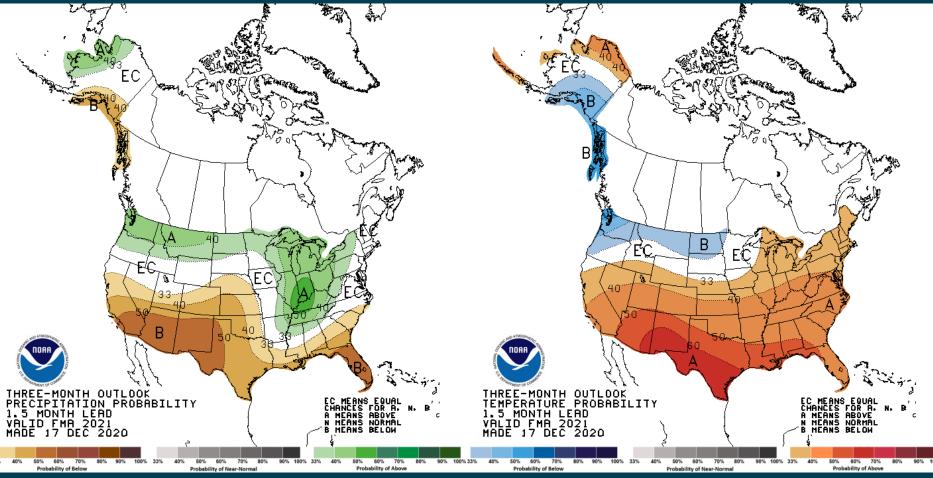


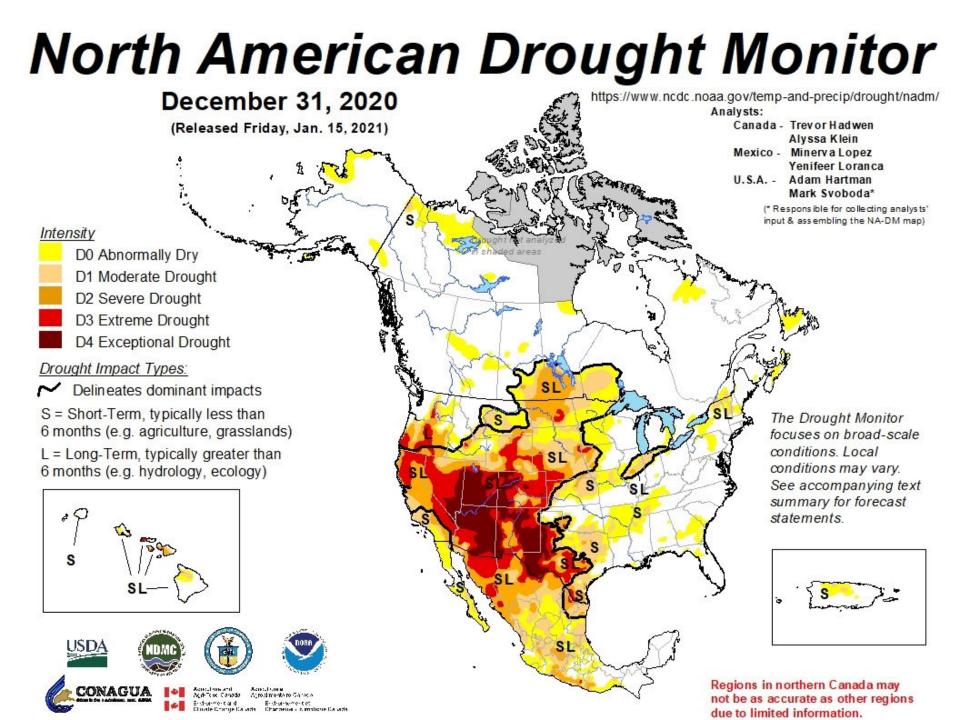


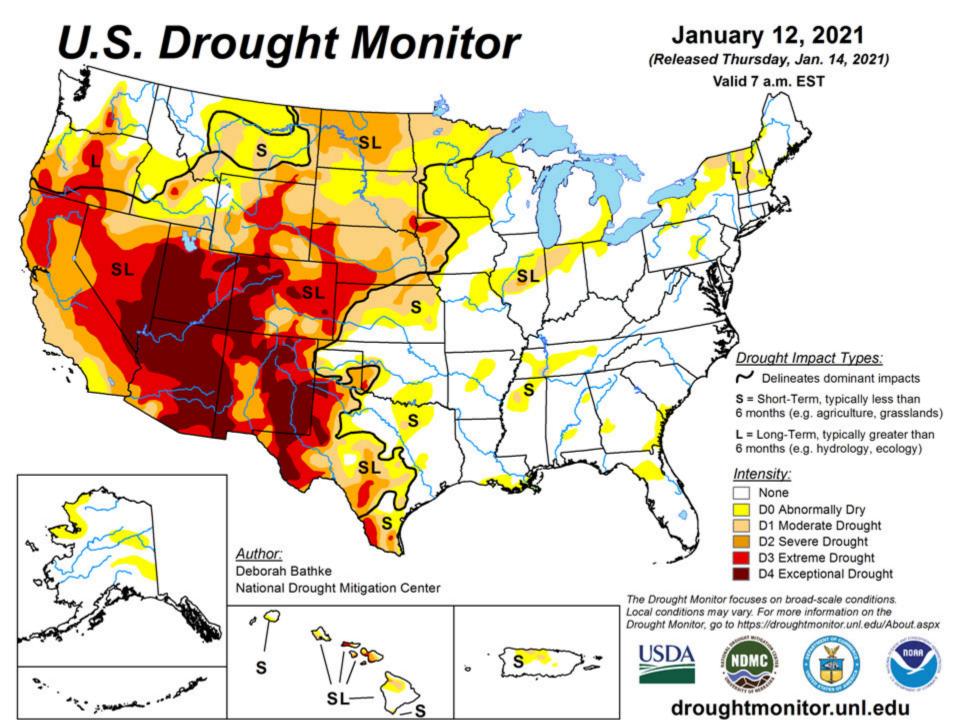
Seasonal Climate Forecast

Precipitation

Temperature







U.S. Seasonal Drought Outlook Drought Tendency During the Valid Period

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The state

Author:

Yun Fan

NOAA/NWS/NCEP/Climate Prediction Center

Valid for December 17, 2020 - March 31, 2021 Released December 17, 2020

> Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

Drought persists

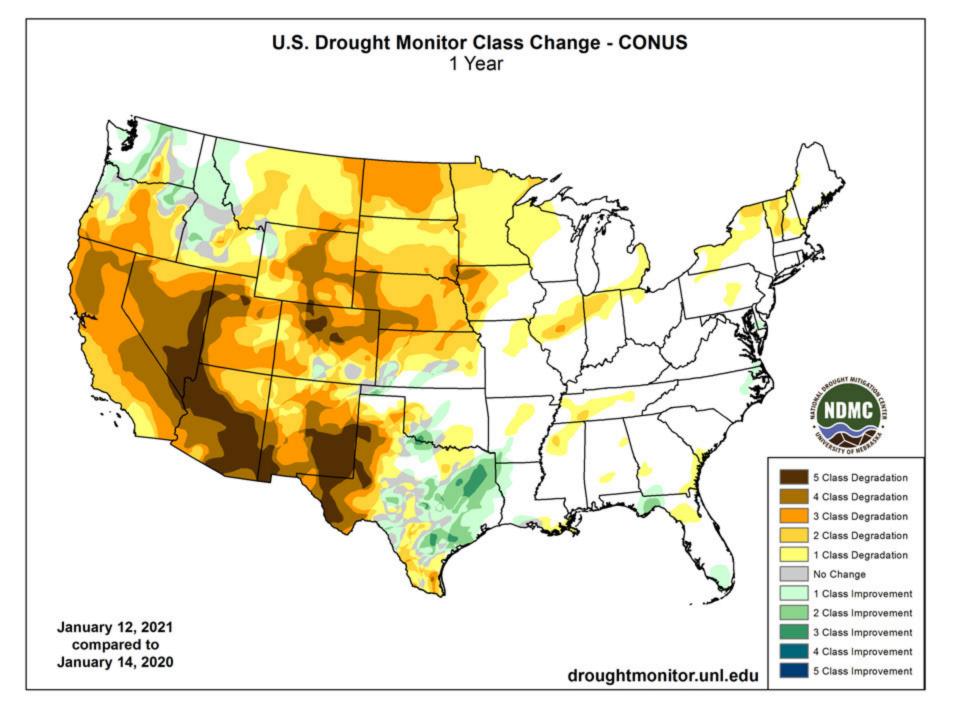
Drought remains but improves

Drought removal likely

Drought development likely

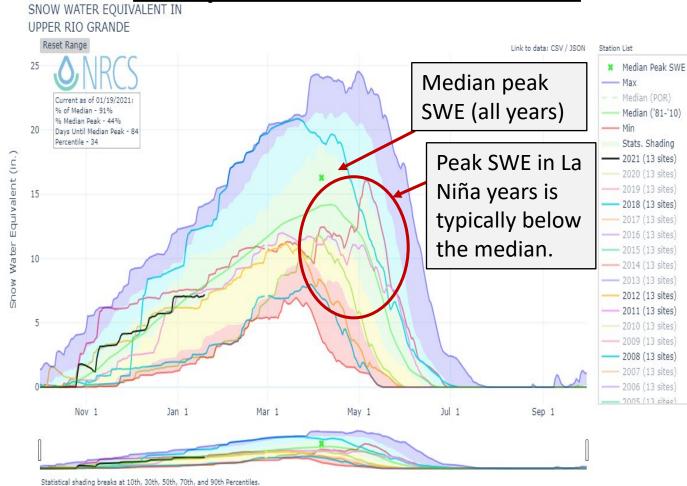


http://do.usa.dov/3eZ73



Seasonal Climate Forecast

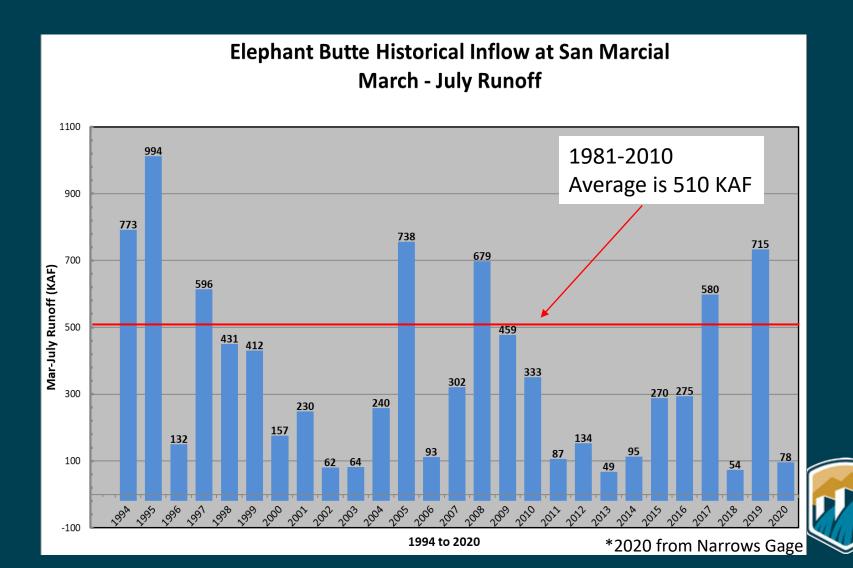
Snowpack in Recent La Niña Years





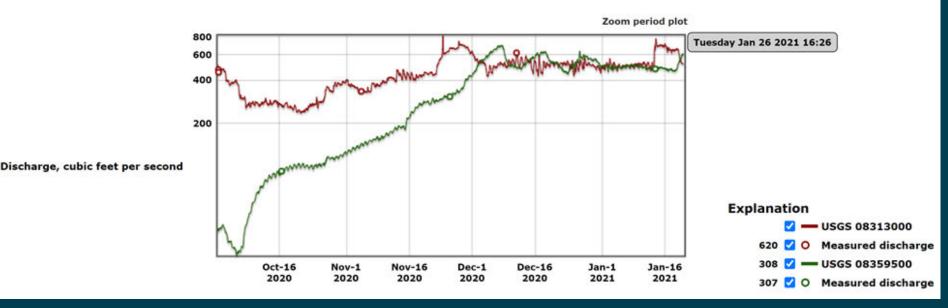
https://www.nrcs.usda.gov/wps/portal/nrcs/detail/co/snow/products/?cid=nrcseprd1432263

Elephant Butte Inflow



Otowi and Narrows Gages

USGS 08313000 RIO GRANDE AT OTOWI BRIDGE, NM USGS 08359500 RIO GRANDE AT NARROWS IN ELEPHANT BUTTE RES., NM





2021 Operations

Elephant Butte Estimated Storage and Inflow November 1, 2020 to March 1, 2021



2021 Considerations

EBID:

• Plan for allotment of 6" or less

- Subject to change based on hydrologic conditions
- Possible June 1 start date

EPCWID:

- Expected to have 85-95 KAF of carryover
- Anticipate May or June start date

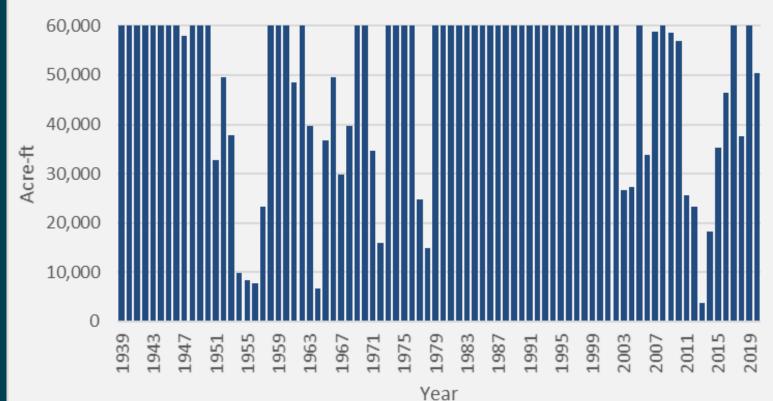
Reservoir Operations:

- Minimum pools established
- Possible 2013 conditions or worse
- Zero Project allocation for 2021 as of December 2020



Historical Mexico Allocations

Mexico Allocations





2021 Scenarios

Allocation*		April 2021	July 2021
Release for all three entities	EBID (NM)	14,500-26,000	19,000-32,000
	EP1 (TX)	104,000-113,000	107,000-117,000
	Mexico	7,200	7,500
EBID – No release	EBID (NM)	14,500-26,000	19,000-32,000
	EP1 (TX)	104,000-109,000	107,000-109,000
	Mexico	2,900-4,000	3,600-4,700
*Subject to change			

• Assumptions:

- 2013 inflow hydrology worst case scenario
- EP1's allocations include 85 95 KAF of carryover
- Diversion Ratio 0.66 0.77 (similar to 2012 2014)



Summary

- Total Project storage is at 174 KAF, or 8% of total capacity. There is about 424 KAF less than this time last year.
- We are in a La Nina Advisory with an 95% chance of continuation through the Northern Hemisphere winter 2020-21 and a 55% chance into spring 2021.
- > Irrigation season expected to start in May or June
- > 2020 Project accounting not yet final



Questions?



