CBRFC Stakeholder Forum

Application of CBRFC Products and Services

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Imported Supply Sources

Upper Colorado River Basin

Northern Sierra Nevada
Metropolitan’s Imported Water Supplies

State Water Project
1.9 MAF Supply Contract
(subject to availability)

Colorado River Basin

Lake Oroville

California Aqueduct

Lake Mead

Lake Powell

UPPER BASIN

LOWER BASIN

Colorado River Aqueduct
1.2 MAF Capacity
(550 TAF Basic Apportionment)

California Aqueduct

State Water Project
1.9 MAF Supply Contract
(subject to availability)
What happens in a given year will dictate the water supply conditions in that same year.

What happens in a given year generally impacts the water supply in the following year.
Northern Sierra Precipitation

8-Station Index

Precipitation (in.)

Oct  Nov  Dec  Jan  Feb  Mar  Apr  May  Jun  Jul  Aug  Sep

10% Exceedence
90% Exceedence
Median
30% Allocation
50% Allocation
Wettest
Driest
10% Allocation
15% Allocation
30% Allocation
Higher Powell releases help increase Mead Storage

Factors Considered for Additional Releases:

- 2017 Runoff into Lake Powell
- Lake Powell Storage levels
- Equalization trigger level has increased since 2011
Imported Supply Relationship

100% SWP Allocation

Near Full CRA

Million Acre-Ft


SWP Allocation

CRA Diversions
MWD Storage Balance (ICS) in Lake Mead

Calendar Year

Thousand Acre-Feet

2006: 40
2007: 41
2008: 94
2009: 146
2010: 256
2011: 435
2012: 580
2013: 474
2014: 151
2015: 80
Lake Mead Hits Record Low Storage

Million Acre-Feet

Dec-11  Dec-12  Dec-13  Dec-14  Dec-15  Dec-16  Dec-17

Lake Mead Storage

Lowest since 1937
2017 Storage Projections

Start of calendar year 2017 storage: 1.3 MAF
2017 projected storage put: 1.0 MAF

- In-Region Surface: 738 TAF, 145 TAF
- Flex: 154 TAF, 65 TAF
- CUP/Cyclic: 166 TAF
- Carryover: 168 TAF, 32 TAF
- Groundwater: 359 TAF, 157 TAF
- Mead ICS: 356 TAF, 85 TAF
- DWCV: 38 TAF

Not drawn to scale.
Summary

Put into perspective how storm systems impact water supply in the Upper Basin
  
  Would creating an Index focusing on areas of the watershed that historically contribute most to runoff help?

Correlate runoff with Lake Powell storage levels
  
  What is the likelihood of reaching certain levels, and what will it take to get there?

Side stream inflows
  
  Where should we be looking to better anticipate these flows
H2

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Take your turn.

The Metropolitan Water District of Southern California