Hydrology and Project Operations Update

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State Water Resources Control Board
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2/16/2021 SWRCB Hydrology Briefing

Current Runoff Forecast

2021 Water Year Accumulated Volume Plot

Forecast Group

Median Forecast: 8650 kaf | 36% of Mean | 44% of Median

Created: 04/15/2021 at 09:54 AM PDT

Legend entries below can be toggled on/off.

Median Forecast: 14300 kaf | 99% of Average | 72% of Median

Created: 02/11/2021 at 09:37 AM PST

Legend entries below can be toggled on/off.
Folsom Lake Storage Levels

Total Reservoir Capacity: 977,000 AF

Water Year (October 1 - September 30)

San Luis Reservoir Storage Levels

4/15/2021
SWP Share: 647 TAF
CVP Share: 422 TAF
April 1 - Water Supply Forecast

• Sacramento and San Joaquin Valley - Critical
• Runoff, rainfall and snowpack well below average
• Observed Oct through March Runoff:
  – Sacramento Valley – 3rd driest in historical record (back to 1906)
  – San Joaquin Valley – 6th driest in historical record (back to 1901)
  – Tulare Lake Basin – 8th driest in historical record (back to 1901)
2021 SWP Operations Update

• Reduced 2021 SWP water supply allocation from 10% to 5%. Lowest allocation for M&I contractors, and matches 2014

• Lake Oroville/Feather River
  – Storage-1.48 MAF, 54% average
  – Storage conservation: minimum releases until increases needed for delta outflow/water quality
  – Confirmed 50% reduction to Feather River Settlement Contractors
  – Storage objective:
    • At least 900 TAF through August
      – Conservation of cold-water pool for late summer/fall Feather River Temperature management
      – Sustain peak downstream requirements and demands

• Spring/Summer Delta Operations
  – Minimum exports through summer to meet demands of contractors who are not connected to San Luis Reservoir, with increased exports to facilitate third party water transfers
2021 CVP Operations Update

• 2021 Allocations:
  – 5% North of Delta Ag; 55% (historical use) North of Delta Municipal and Industrial
  – South of Delta Ag allocation of 5% is no longer available; 55% (historical use) South of Delta Municipal and Industrial

• Lake Shasta/Sacramento River
  – Storage-2.36 MAF, 62% average
  – Storage conservation: releases from late April throughout the summer will primarily be controlled by releases for meeting senior water right demands and delta objectives
  – 75% allocation to Sacramento River Settlement Contractors
  – Key objectives:
    • Temperature Management
    • Carryover storage
    • Meeting senior water right requirements
    • Meeting health and safety needs throughout the basin
2021 CVP Operations Update

• Folsom Lake/American River
  – Storage: 359 TAF, 52% average
  – Storage conservation: Releases above minimums expected to primarily support delta objectives
  – Key objectives:
    • Carryover storage
    • Temperature Management
    • Meeting health and safety needs throughout the basin

• Trinity Lake/Trinity River/Sacramento River
  – Storage: 1.3 MAF, 66% average
  – Storage conservation: Releases to the Trinity River will follow the 2001 Record of Decision; Releases to the Sacramento River are shaped to balance between storage management at Trinity and Shasta
  – Key objectives:
    • Carryover storage
    • Temperature Management (both Sacramento and Trinity Rivers)
2021 CVP Operations Update

• New Melones Lake/Stanislaus River
  – Storage: 1.5 MAF, 100% average
  – Storage conservation: Releases primarily controlled by the Stepped Release Plan from the 2019 Record of Decision and Vernalis flows and salinity objectives
  – Key objectives:
    • Carryover storage

• Spring/Summer Delta Operations
  – Low exports through summer to meet senior water right and refuge requirements with increased exports to facilitate third party water transfers