

Colorado River Basin Water Supply Briefing

May 7, 2024



Colorado Basin
River Forecast Center
National Weather Service



Presentation Overview

Soil Moisture / April Streamflow

Precipitation Review

Snowpack Conditions

Water Supply Forecasts

Upcoming Weather

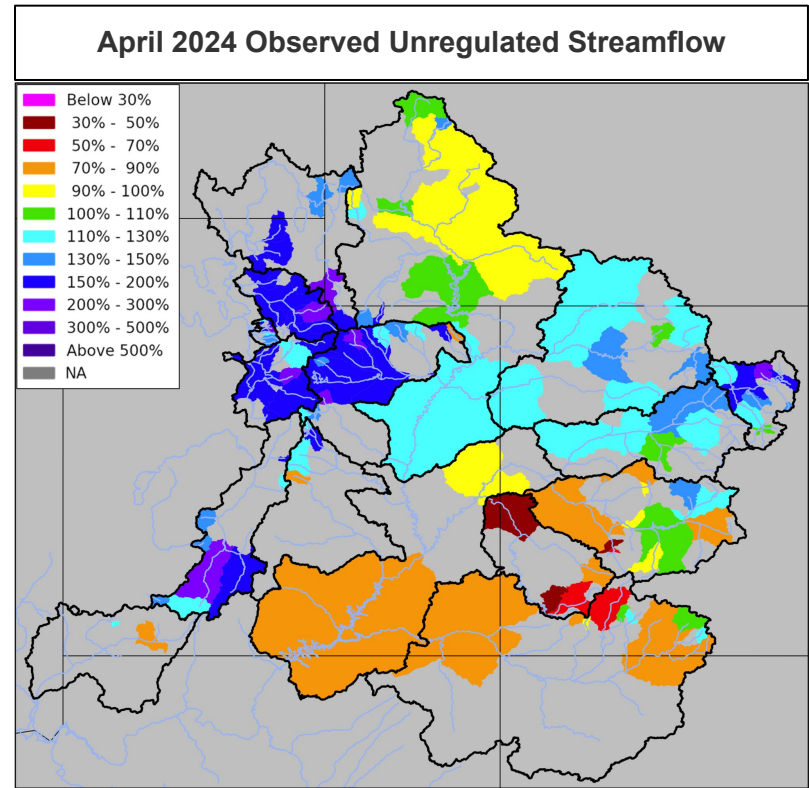
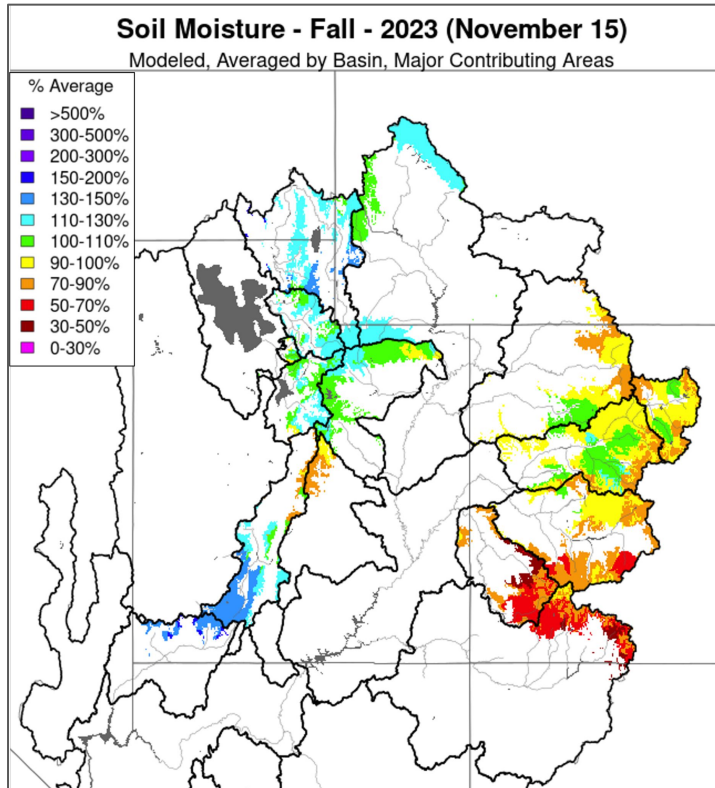
Peak Flow Forecasts

Contacts & Questions

**Webinar recording & slides will be
available on CBRFC webpage.**

Antecedent Soil Moisture Conditions / April Observed Flow

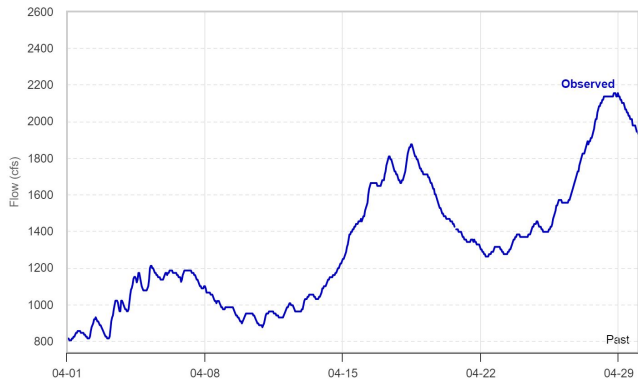
The timing and magnitude of spring runoff is ultimately a result of snowpack conditions, spring weather, and soil moisture conditions.



April Hydrographs

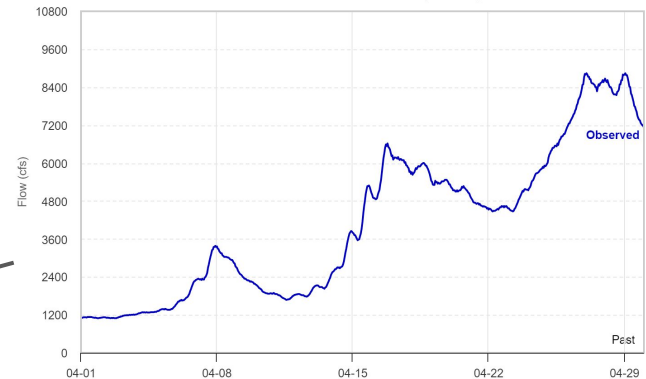
Forecast Hydrograph - Green - La Barge, Nr (LABW4) - NC

Fcst Date: 05/06/14Z - Latest Ob: 5.63 ft, 1468 cfs (05/07/12Z) - Flood: 9.0 ft, 11023 cfs - Act



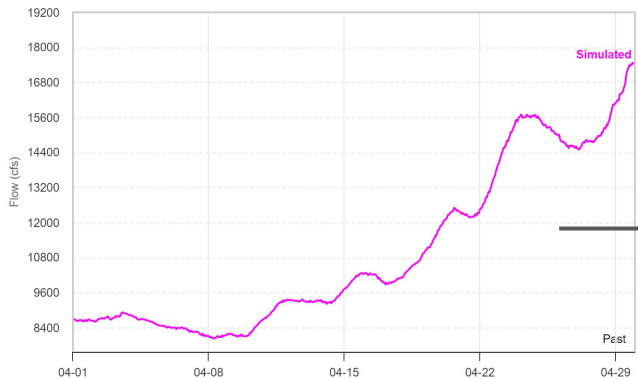
Forecast Hydrograph - Yampa - Deerlodge Park (YDLC2) - N

Fcst Date: 05/06/14Z - Latest Ob: 6.11 ft, 4740 cfs (05/07/11Z) - Flood: 13.5 ft, 20429 cfs - Act



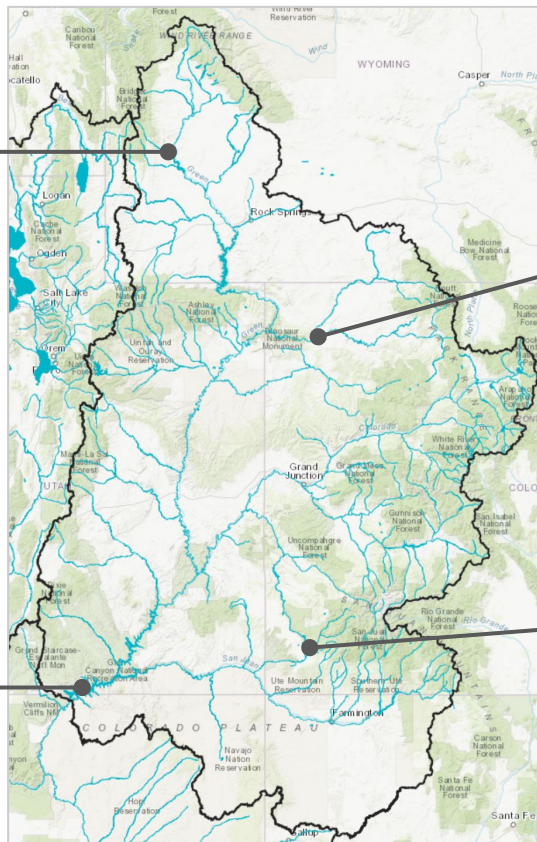
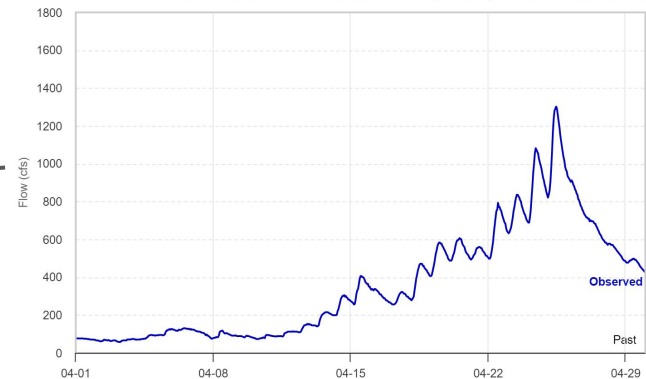
Reservoir Inflow Hydrograph - Colorado - Lake Powell, Glen Cyn Dam, A

Fcst Date: 05/06/15Z - Latest Ob: NA - Flood: NA - Action: NA



Forecast Hydrograph - Dolores - Dolores (DOLC2) - NOZ

Fcst Date: 05/06/15Z - Latest Ob: 3.81 ft, 602 cfs (05/07/12Z) - Flood: 8.0 ft, 6719 cfs - Act

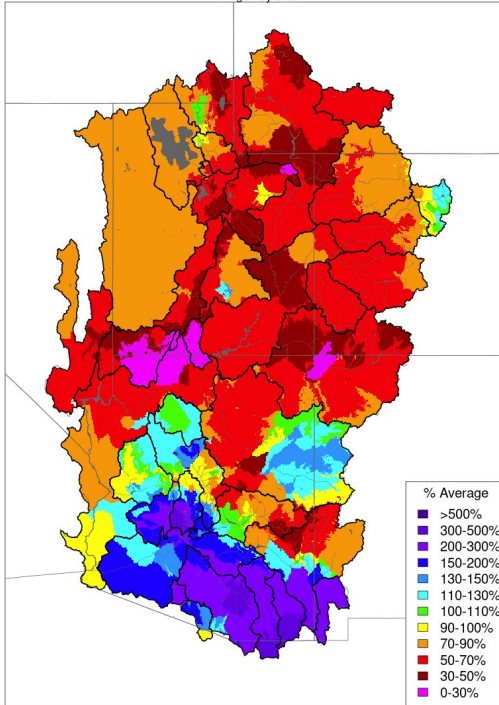


April 2024 Precipitation Summary

April precipitation was generally below average across the region.
 Exceptions: Colorado River headwaters above Kremmling and the Verde basins.

Monthly Precipitation - April 2024

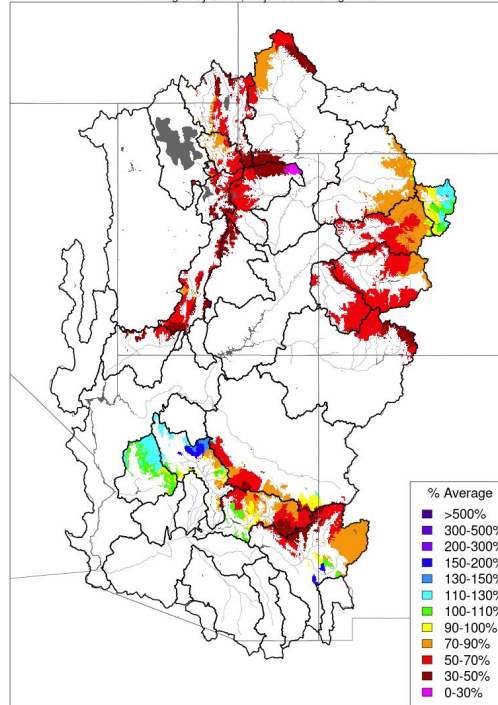
Averaged by Basin



Prepared by NOAA, Colorado Basin River Forecast Center
 Salt Lake City, Utah, www.cbrfc.noaa.gov

Monthly Precipitation - April 2024

Averaged by Basin, Major Contributing Areas



Prepared by NOAA, Colorado Basin River Forecast Center
 Salt Lake City, Utah, www.cbrfc.noaa.gov

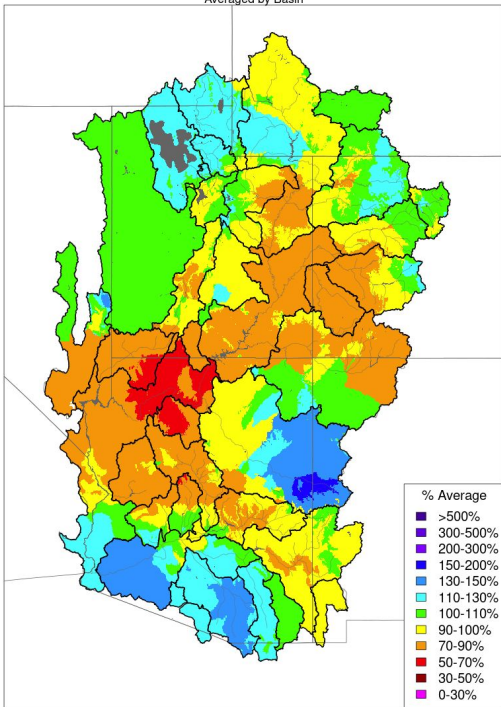
| Water Year 2024 | | |
|--|-----|---------|
| CBRFC Precipitation (Major Contributing Areas) | | |
| Percent of 1991-2020 Average | | |
| UPPER COLORADO RIVER BASIN | | |
| | Apr | Oct-Apr |
| Above Lake Powell | 69 | 97 |
| Green River Basin | | |
| Above Fontenelle | 55 | 94 |
| Above Flaming Gorge | 50 | 97 |
| Yampa/White | 82 | 108 |
| Duchesne | 45 | 98 |
| Price/San Rafael/Dirty Devil | 54 | 105 |
| Colorado River Headwaters | | |
| Above Kremmling | 108 | 103 |
| Eagle | 86 | 105 |
| Roaring Fork | 72 | 100 |
| Above Cameo | 89 | 102 |
| Southwest Colorado | | |
| Gunnison | 63 | 94 |
| Dolores | 60 | 86 |
| San Juan | 52 | 85 |
| LOWER COLORADO RIVER BASIN | | |
| Virgin | 45 | 81 |
| Little Colorado | 74 | 95 |
| Verde | 95 | 90 |
| Salt | 71 | 94 |
| Upper Gila | 70 | 98 |

Water Year 2024 Precipitation Summary

Colorado River Basin water year 2024 precipitation is generally near to below normal across significant runoff producing areas.

Water Year Precipitation, October 2023 - April 2024

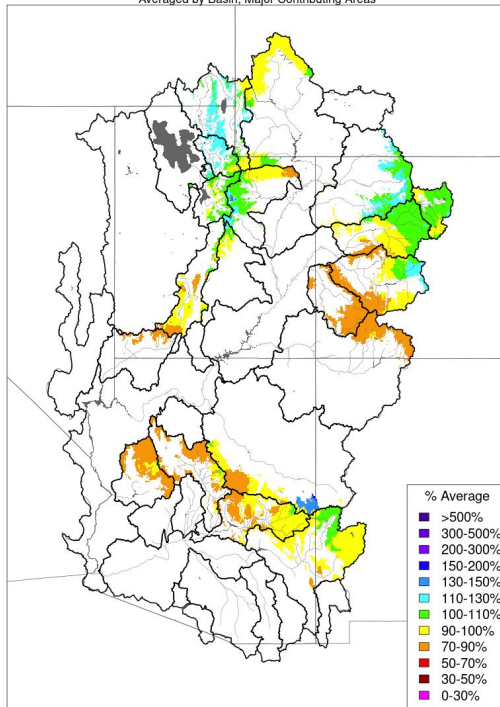
Averaged by Basin



Prepared by NOAA, Colorado Basin River Forecast Center
Salt Lake City, Utah, www.cbrfc.noaa.gov

Water Year Precipitation, October 2023 - April 2024

Averaged by Basin, Major Contributing Areas



Prepared by NOAA, Colorado Basin River Forecast Center
Salt Lake City, Utah, www.cbrfc.noaa.gov

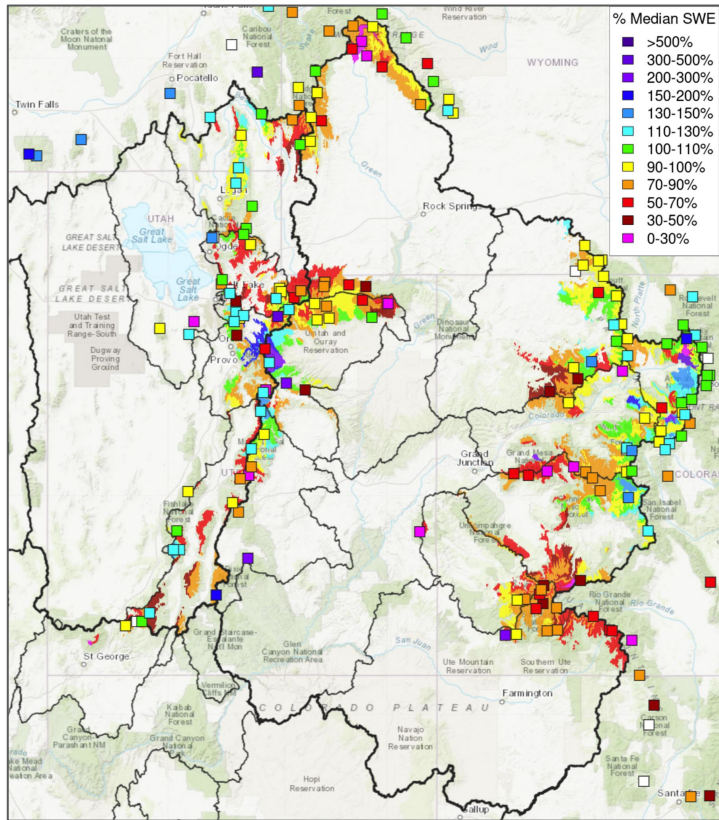
| Water Year 2024 CBRFC Precipitation (Major Contributing Areas) Percent of 1991-2020 Average | | |
|---|-----|---------|
| UPPER COLORADO RIVER BASIN | | |
| | Apr | Oct-Apr |
| Above Lake Powell | 69 | 97 |
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| Above Cameo | 89 | 102 |
| Southwest Colorado | | |
| Gunnison | 63 | 94 |
| Dolores | 60 | 86 |
| San Juan | 52 | 85 |
| LOWER COLORADO RIVER BASIN | | |
| Virgin | 45 | 81 |
| Little Colorado | 74 | 95 |
| Verde | 95 | 90 |
| Salt | 71 | 94 |
| Upper Gila | 70 | 98 |

Snowpack Conditions

May 1 SWE Conditions

NRCS SNOTEL Observed (Squares)

CBRFC Model (Significant Areas)



Water Year 2024 CBRFC Model SWE (Major Contributing Areas) Percent of 1991-2020 Median

UPPER COLORADO RIVER BASIN

| | Apr1 | May1 | Change |
|----------------------------------|------|------|--------|
| Above Lake Powell | 113 | 89 | -24 |
| Green River Basin | | | |
| Above Fontenelle | 95 | 84 | -11 |
| Above Flaming Gorge | 106 | 84 | -22 |
| Yampa/White | 121 | 96 | -25 |
| Duchesne | 128 | 93 | -35 |
| Price/San Rafael/Dirty Devil | 150 | 100 | -50 |
| Colorado River Headwaters | | | |
| Above Kremmling | 112 | 102 | -10 |
| Eagle | 109 | 98 | -11 |
| Roaring Fork | 108 | 93 | -15 |
| Above Cameo | 109 | 96 | -13 |
| Southwest Colorado | | | |
| Gunnison | 105 | 82 | -23 |
| Dolores | 109 | 79 | -30 |
| San Juan | 104 | 71 | -33 |

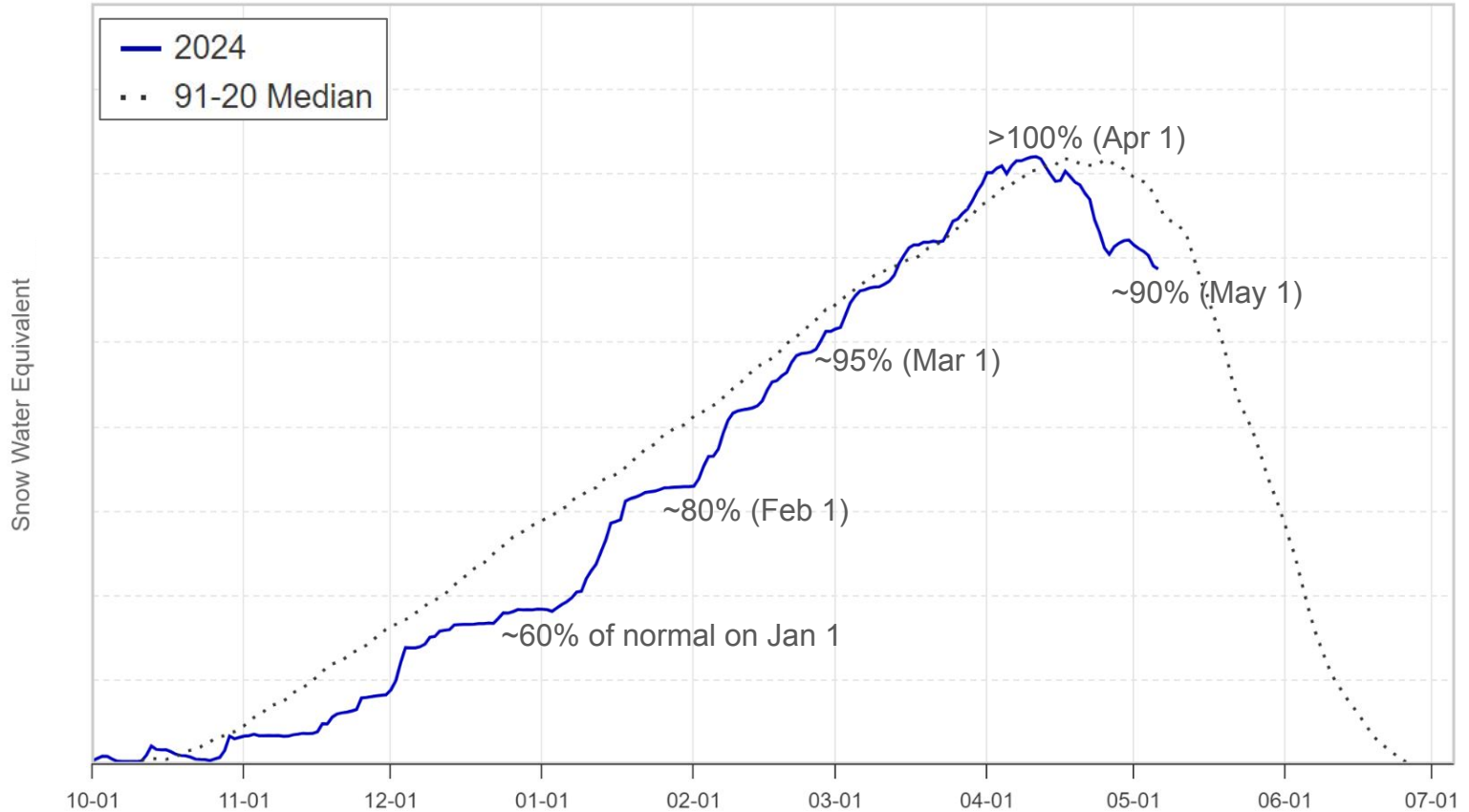
SWE = Snow Water Equivalent
The amount of water in snow.

UCRB SWE conditions declined during April and are near to below normal, ranging from 70-100%.

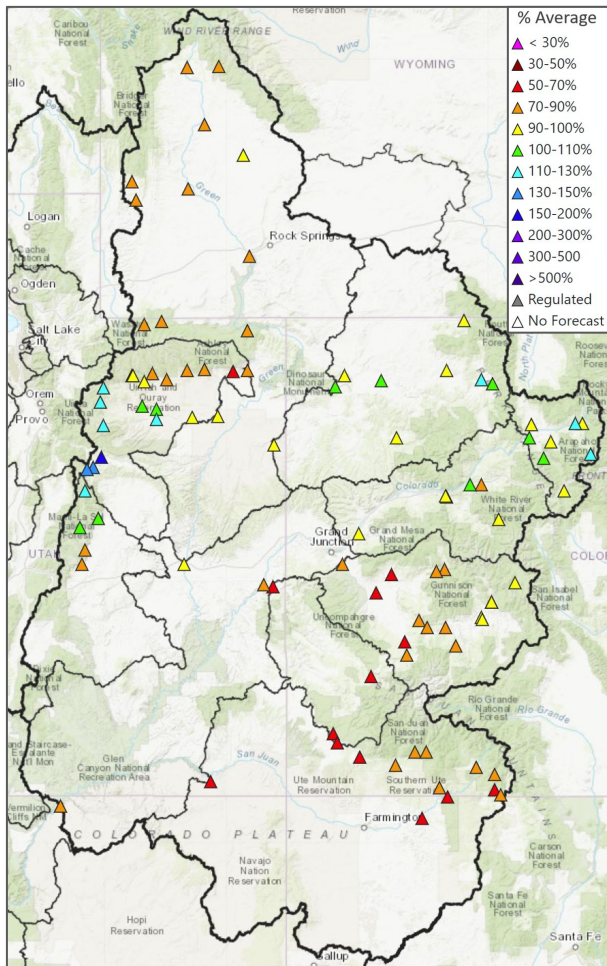
Dust-on-Snow severity is around average this year, except for the Roaring Fork, where dust-on-snow conditions are severe (CODOS).

UCRB Snowpack Evolution

SWE Above Lake Powell



UCRB Water Supply Forecasts: Overview



The water supply outlook has generally declined due to below average April precipitation.

Central areas: near to above normal

Northern/southern areas: near to below normal

Colorado Basin River Forecast Center Water Supply Forecasts May 1, 2024

UPPER COLORADO RIVER BASIN

| Basin | Volume (KAF) | %Average (1991-2020) | Period |
|----------------------------------|--------------|----------------------|---------|
| Lake Powell | 5100 | 80 | Apr-Jul |
| Green River Basin | | | |
| Green-Flaming Gorge Reservoir | 800 | 83 | Apr-Jul |
| Yampa-Deerlodge | 1270 | 107 | Apr-Jul |
| Duchesne-Tabiona | 108 | 105 | Apr-Jul |
| Colorado River Headwaters | | | |
| Colorado-Kremmling | 925 | 106 | Apr-Jul |
| Eagle-Gypsum | 300 | 90 | Apr-Jul |
| Roaring Fork-Glenwood Springs | 575 | 88 | Apr-Jul |
| Colorado-Cameo | 2180 | 96 | Apr-Jul |
| Southwest Colorado | | | |
| Gunnison-Blue Mesa Reservoir | 570 | 90 | Apr-Jul |
| Dolores-McPhee Reservoir | 142 | 56 | Apr-Jul |
| San Juan-Navajo Reservoir | 420 | 67 | Apr-Jul |
| Animas-Durango | 285 | 74 | Apr-Jul |

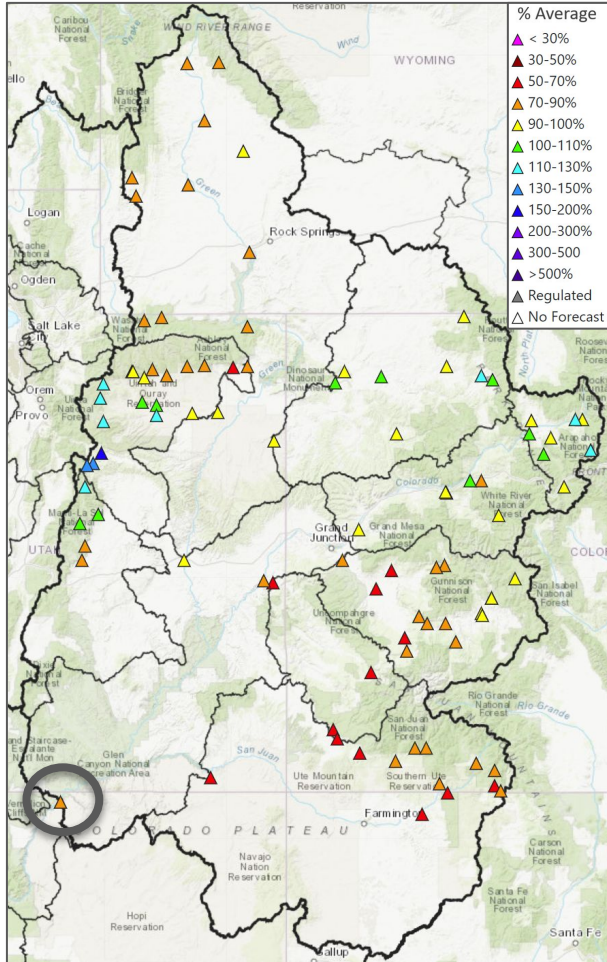
KAF
thousand acre-feet

Best conditions

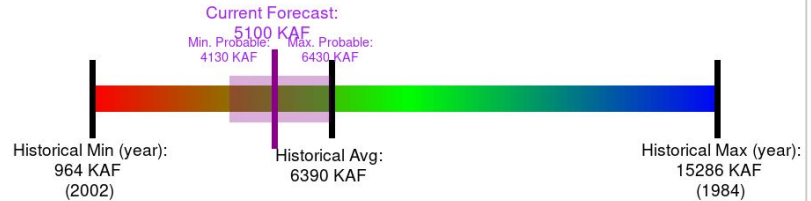
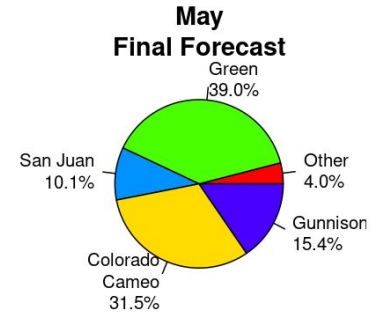
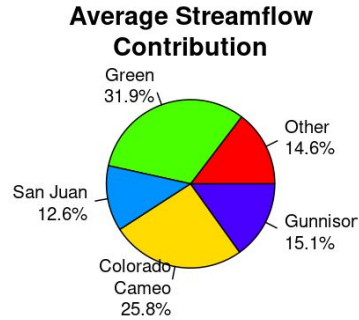
Worse conditions

Lake Powell Water Supply Forecast

Lake Powell summarizes the hydrologic conditions throughout the Upper Colorado River Basin.



April - July Unregulated Inflow into Lake Powell As of 2024-05-01



Averages are over the 1991 - 2020 period

Lake Powell Water Supply Forecast

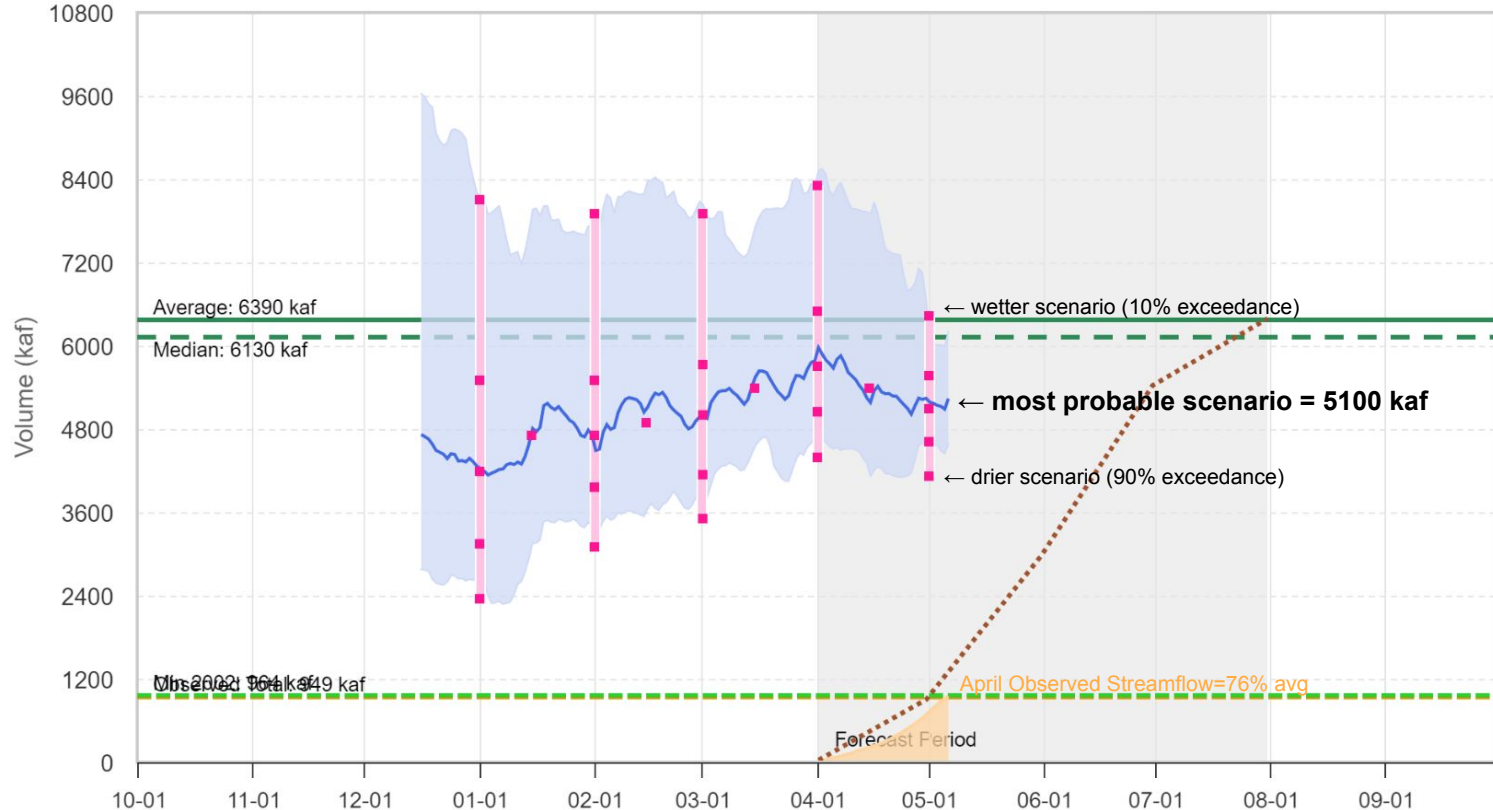
2024 Water Supply Forecast - Colorado - Lake Powell, Glen Cyn Dam, At (GLDA3)

ESP is Unregulated and No Precipitation Forecast Included

Official 50% Fcst (2024-05-01): 5100 kaf (80% Avg, 83% Med), (33% of Yrs Below Fcst, 41 Highest Flow / 60 Tot Yrs)

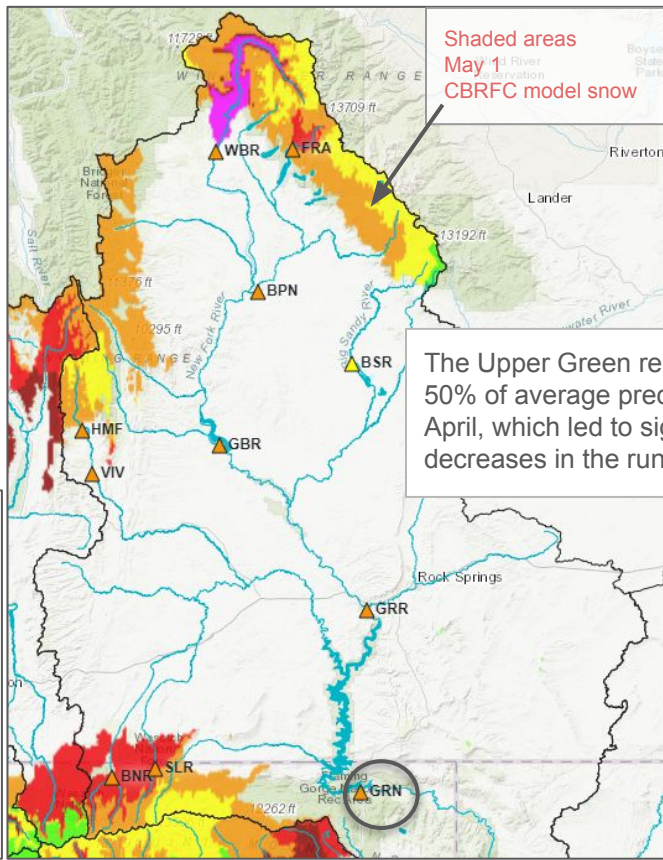
ESP 50% Fcst (2024-05-06): 5239 kaf (82% Avg, 85% Med), (35% of Yrs Below Fcst, 40 Highest Flow / 60 Tot Yrs)

Observed Volume: 949 kaf (15% Average, 15% Median)

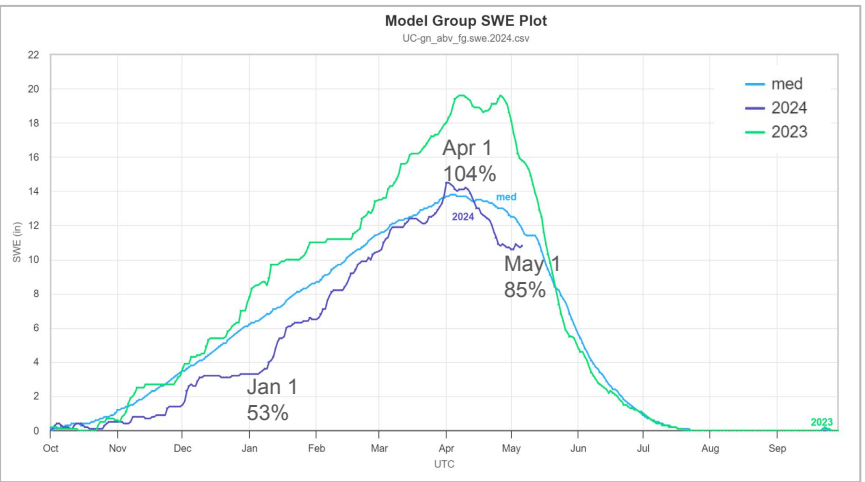
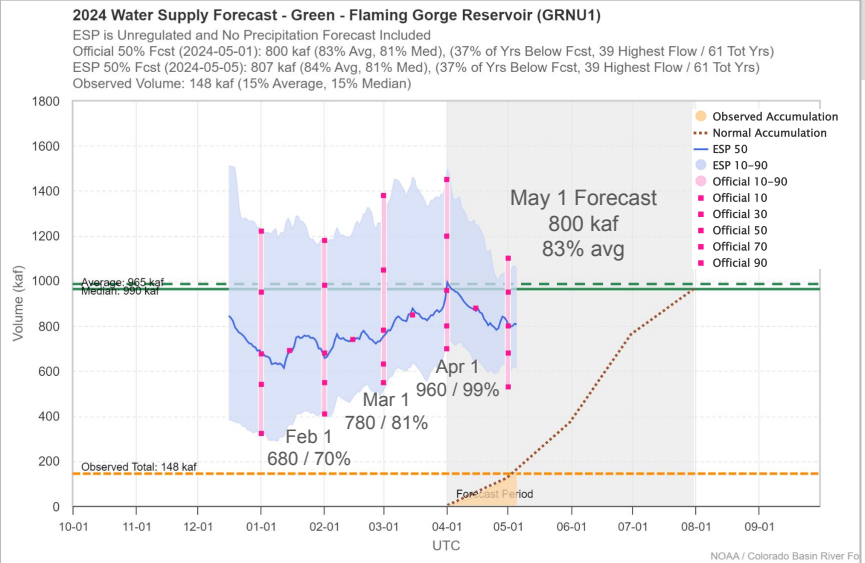


Upper Green River Basin

Forecast Range: 75-90%

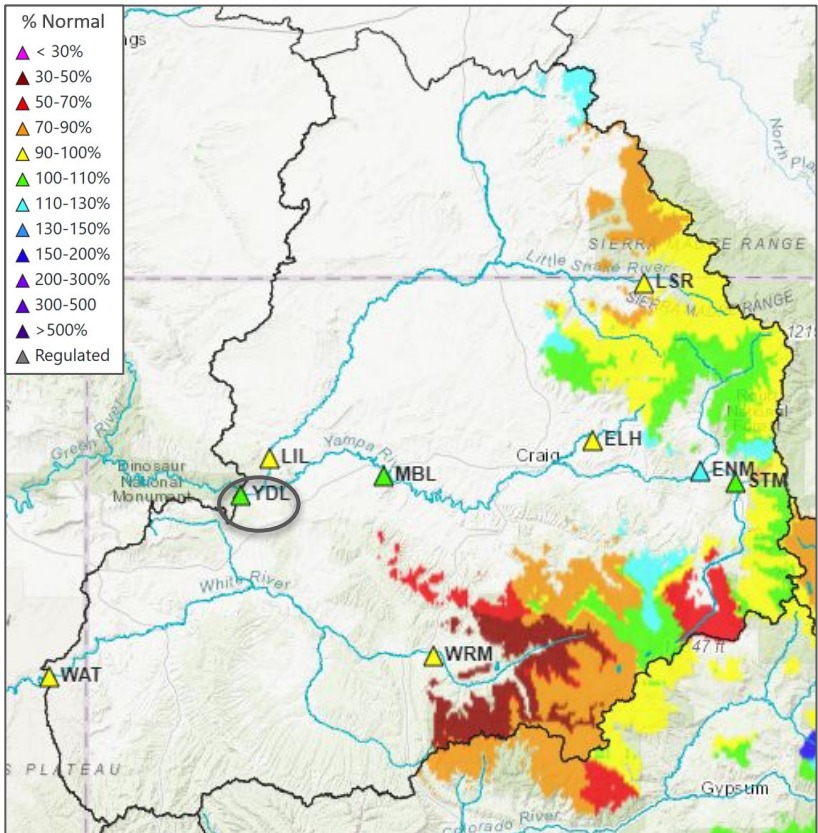


- ▲ % Normal
- ▲ < 30%
- ▲ 30-50%
- ▲ 50-70%
- ▲ 70-90%
- ▲ 90-100%
- ▲ 100-110%
- ▲ 110-130%
- ▲ 130-150%
- ▲ 150-200%
- ▲ 200-300%
- ▲ 300-500%
- ▲ > 500%
- ▲ Regulated



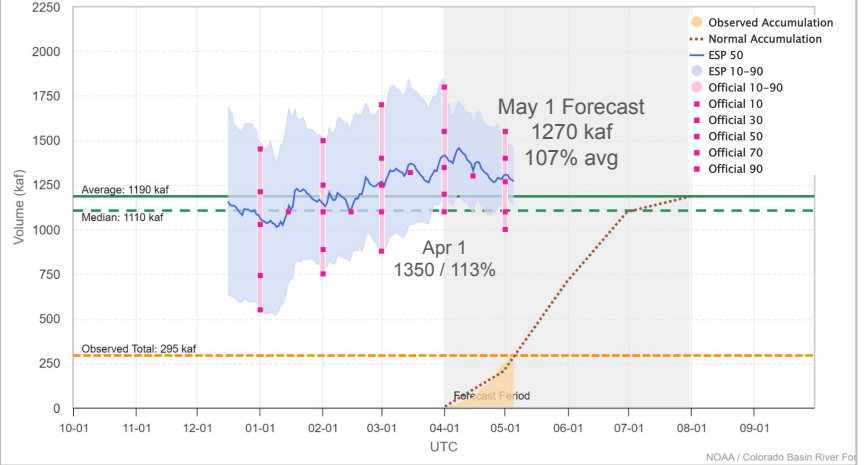
White/Yampa River Basin

Forecast Range: 95-110%

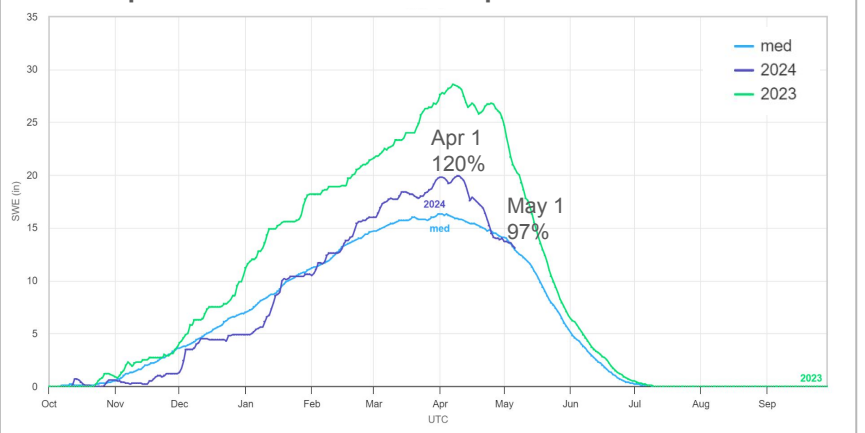


2024 Water Supply Forecast - Yampa - Deerlodge Park (YDLC2)

ESP is Unregulated and No Precipitation Forecast Included
 Official 50% Fcst (2024-05-01): 1270 kaf (107% Avg, 114% Med), (56% of Yrs Below Fcst, 18 Highest Flow / 39 Tot Yrs)
 ESP 50% Fcst (2024-05-05): 1271 kaf (107% Avg, 114% Med), (56% of Yrs Below Fcst, 18 Highest Flow / 39 Tot Yrs)
 Observed Volume: 295 kaf (25% Average, 27% Median)

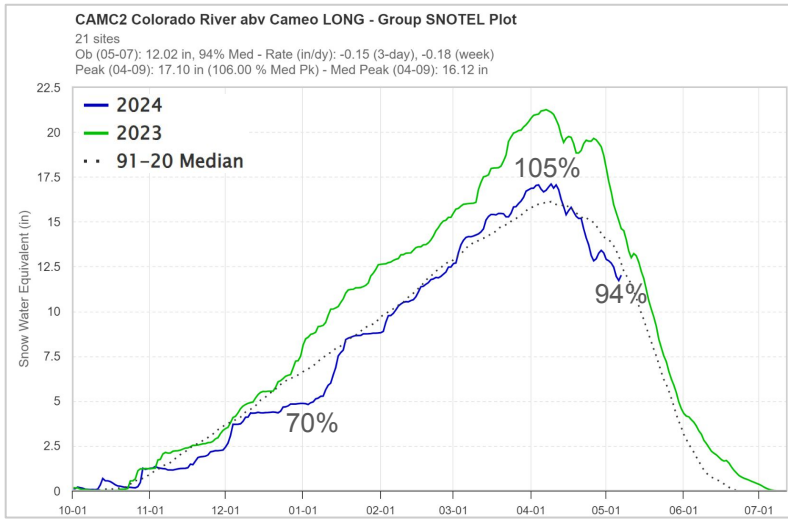
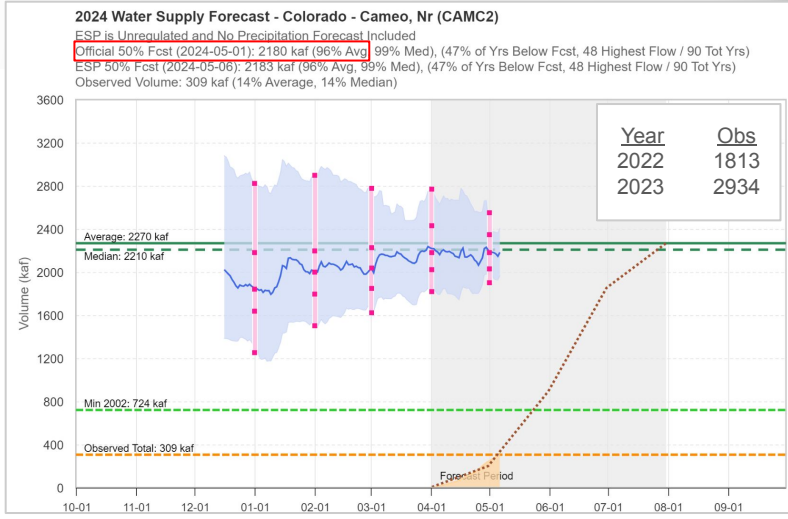
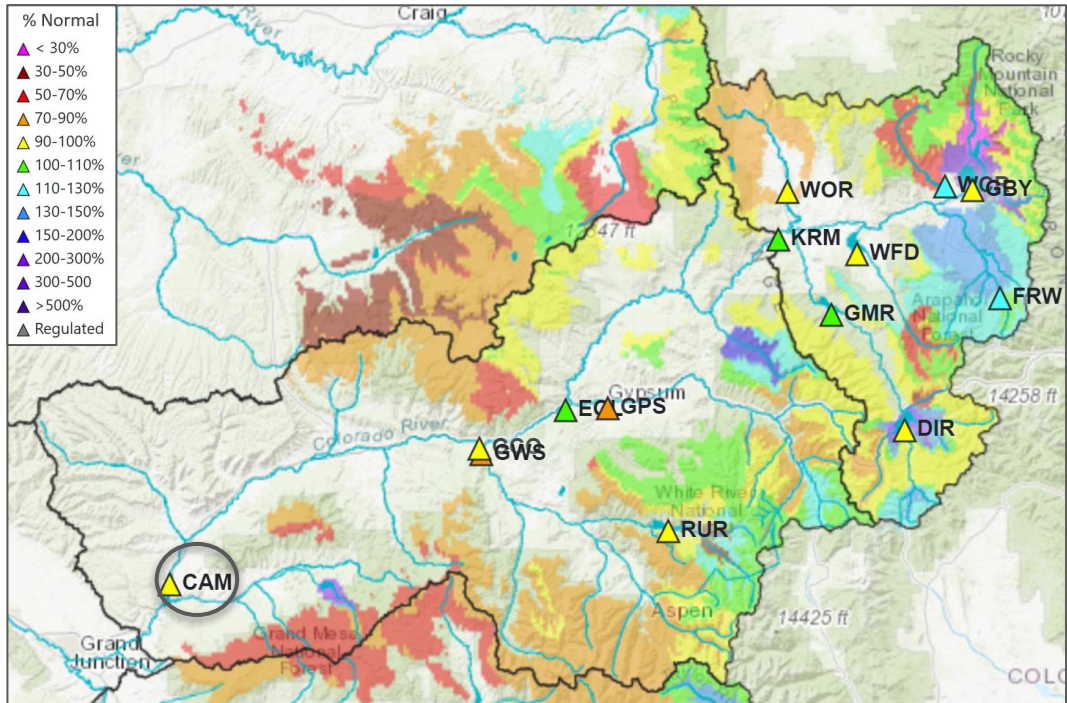


Yampa River Basin - Model Group SWE Plot



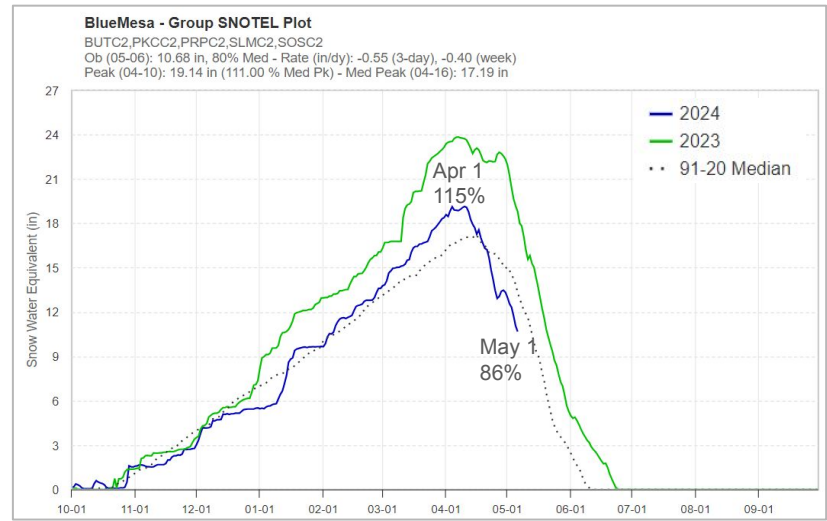
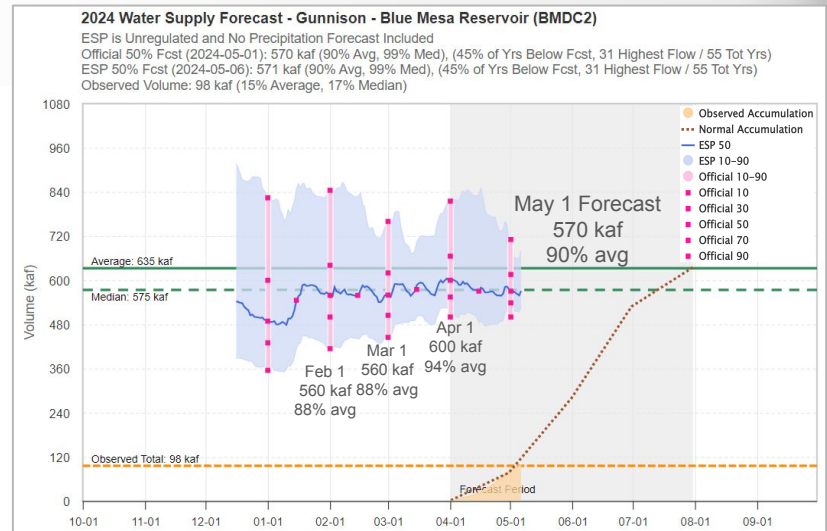
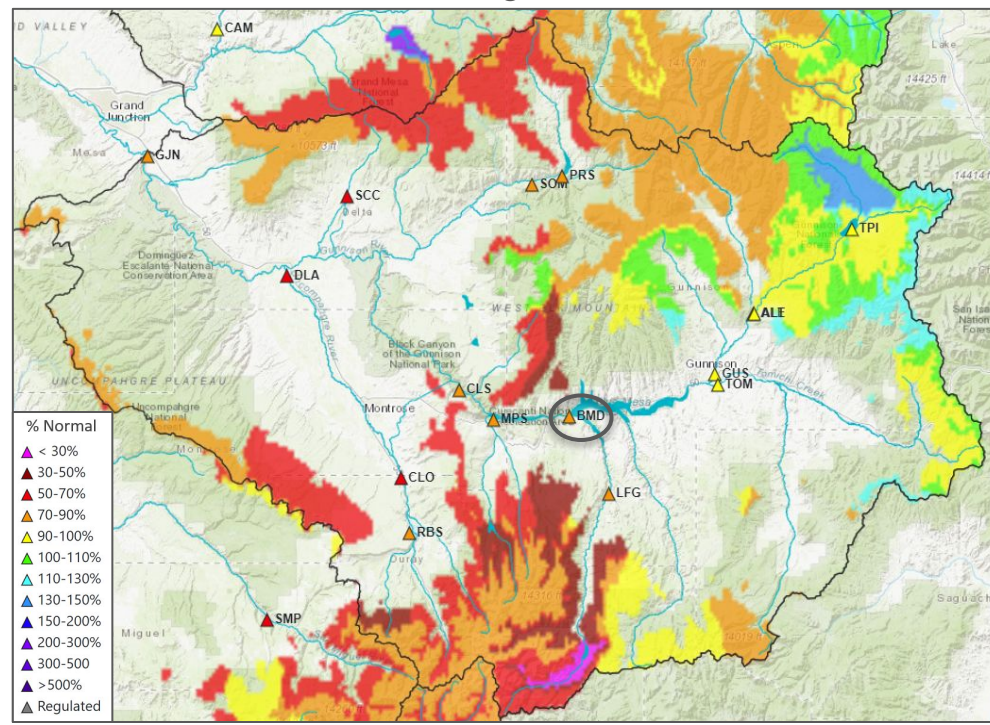
Colorado River Headwaters

Forecast Range: 90-130%



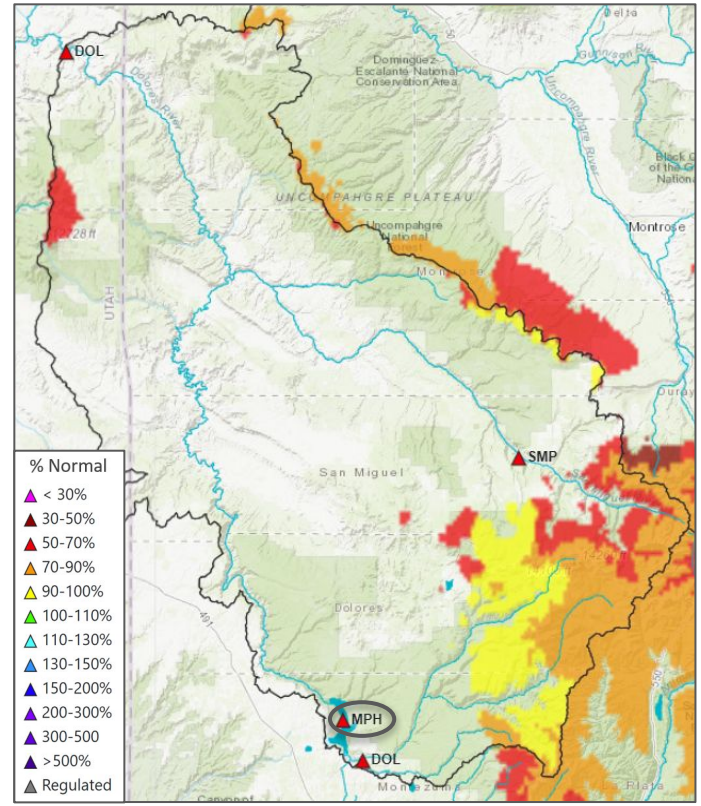
Gunnison River Basin

Forecast Range: 50-100%



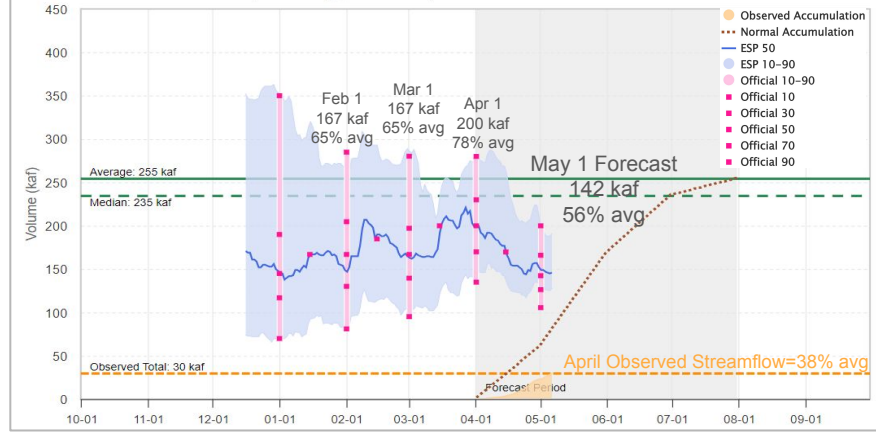
Dolores River Basin

Forecast Range: 50-70%



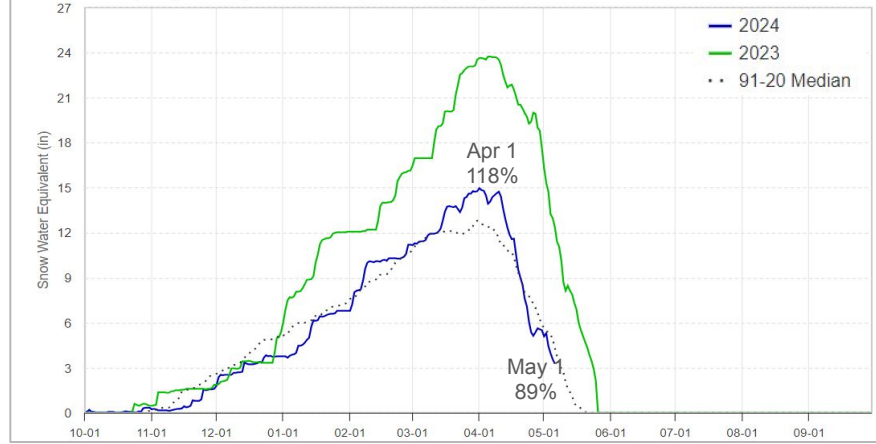
2024 Water Supply Forecast - Dolores - Mcphee Reservoir (MPHC2)

ESP is Unregulated and No Precipitation Forecast Included
 Official 50% Fcst (2024-05-01): 142 kaf (56% Avg, 60% Med), (18% of Yrs Below Fcst, 36 Highest Flow / 43 Tot Yrs)
 ESP 50% Fcst (2024-05-06): 146 kaf (57% Avg, 62% Med), (20% of Yrs Below Fcst, 35 Highest Flow / 43 Tot Yrs)
 Observed Volume: 30 kaf (12% Average, 13% Median)



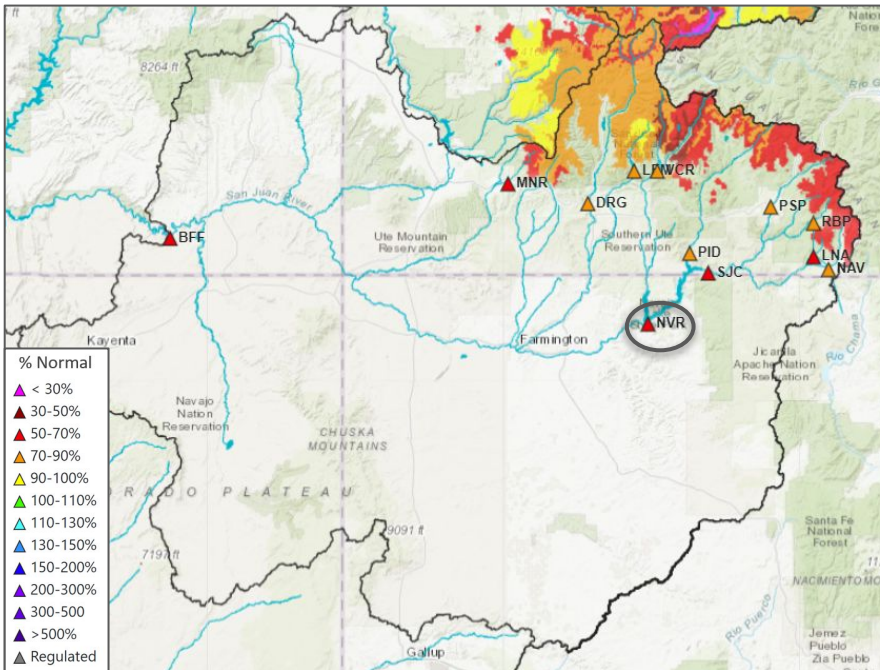
McPhee - Group SNOTEL Plot

EDSC2,LIZC2,SHSC2
 Ob (05-06): 3.27 in, 75% Med - Rate (in/dy): -0.39 (3-day), -0.33 (week)
 Peak (04-01): 14.97 in (117.00 % Med Pk) - Med Peak (03-31): 12.80 in



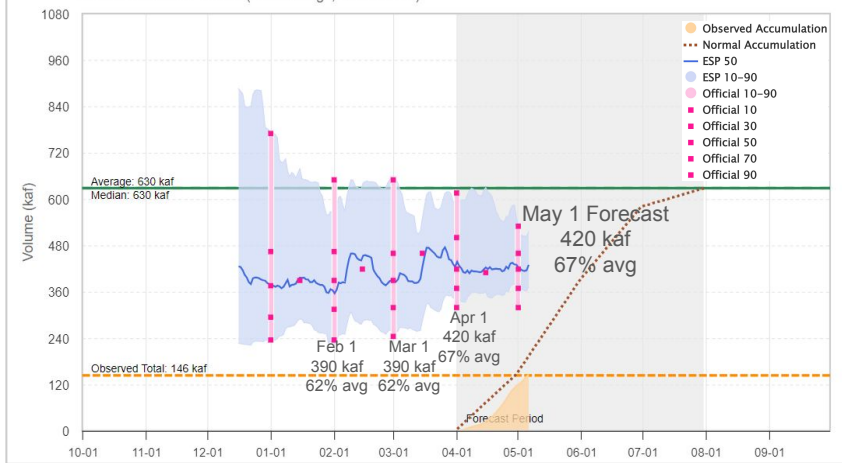
San Juan River Basin

Forecast Range: 65-80%

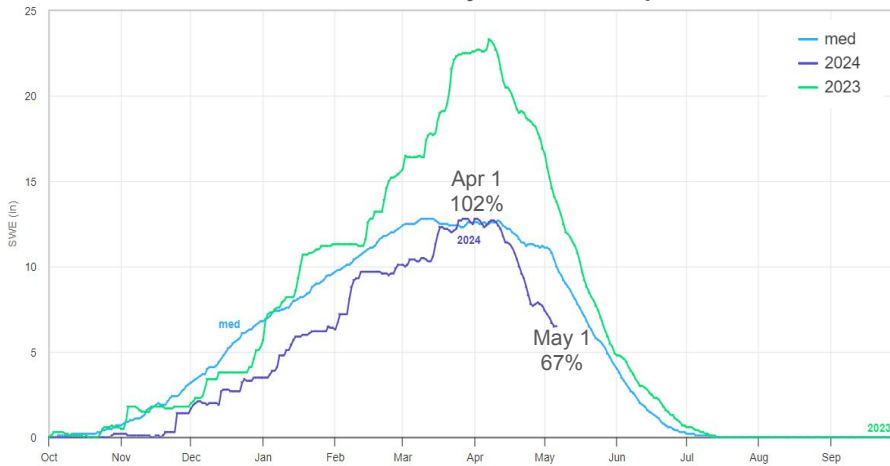


2024 Water Supply Forecast - San Juan - Navajo Reservoir, Archuleta, Nr (NVRN5)

ESP is Unregulated and No Precipitation Forecast Included
 Official 50% Fcst (2024-05-01): 420 kaf (67% Avg, 67% Med), (30% of Yrs Below Fcst, 38 Highest Flow / 53 Tot Yrs)
 ESP 50% Fcst (2024-05-06): 430 kaf (68% Avg, 68% Med), (32% of Yrs Below Fcst, 37 Highest Flow / 53 Tot Yrs)
 Observed Volume: 146 kaf (23% Average, 23% Median)

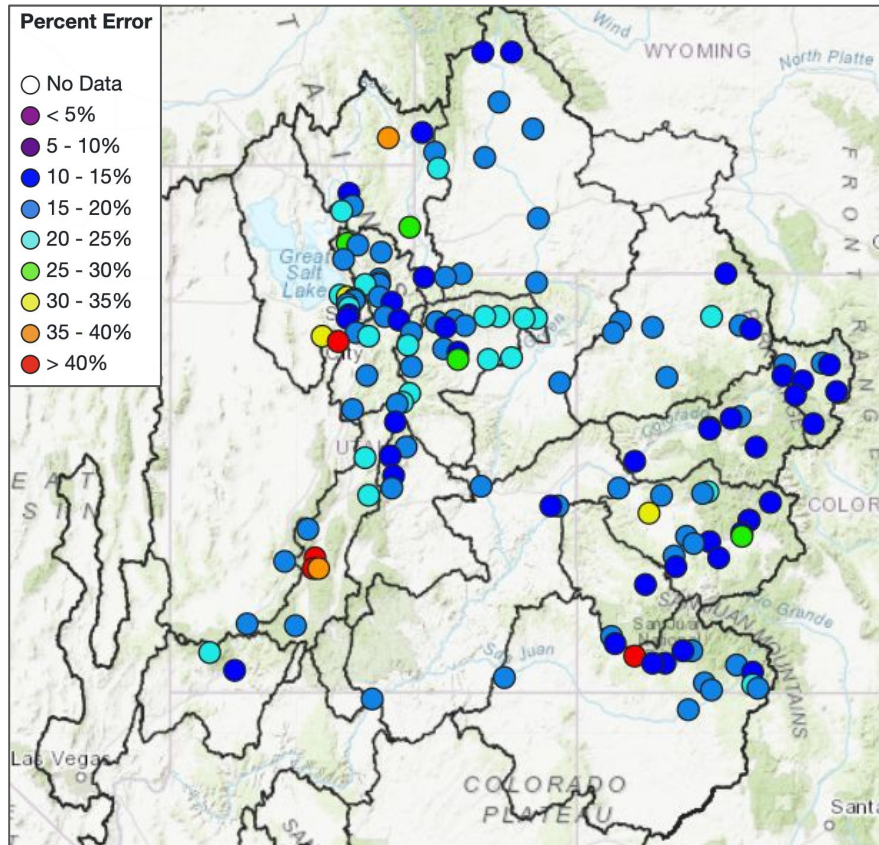


San Juan River Basin abv Navajo - Model Group SWE Plot



Historical Forecast Verification

May Forecast Error: April-July Volume



Location

Avg May Forecast Error

| | |
|--------------------------------|-----|
| Green River - Warren Bridge | 10% |
| Fontenelle Reservoir | 16% |
| Yampa River - Deerlodge | 16% |
| Blue River - Dillon Reservoir | 12% |
| Colorado River - Cameo | 13% |
| Blue Mesa Reservoir (Gunnison) | 14% |
| McPhee Reservoir (Dolores) | 16% |
| Navajo Reservoir (San Juan) | 19% |
| Lake Powell | 16% |
| Virgin River at Virgin | 12% |

Error tends to decrease each month into the spring

Where Forecasts are Better:

- Headwaters
- Primarily snow melt basins
- Known diversions / demands

Where Forecasts are Worse:

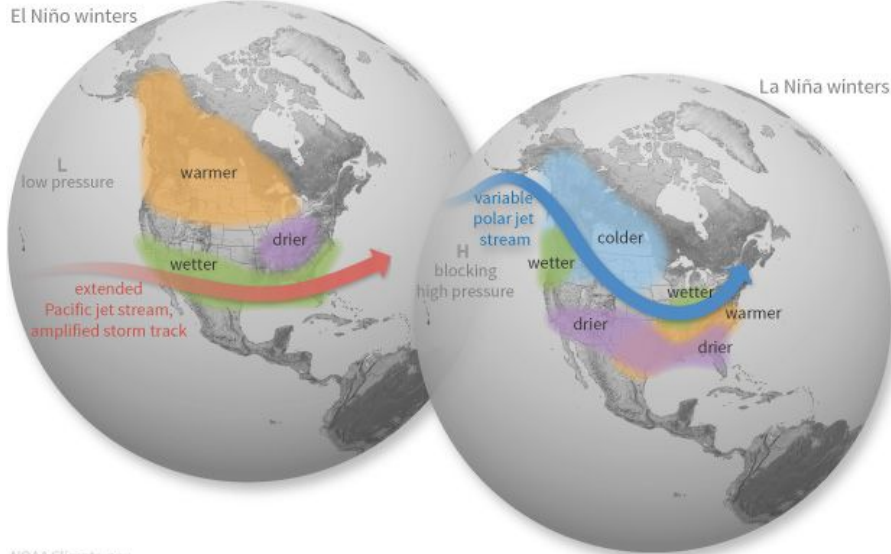
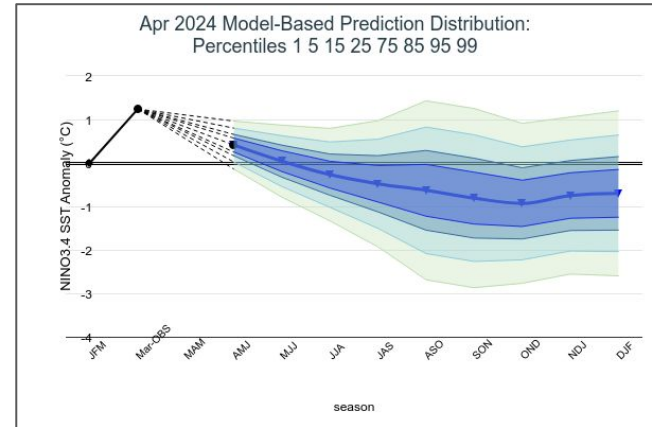
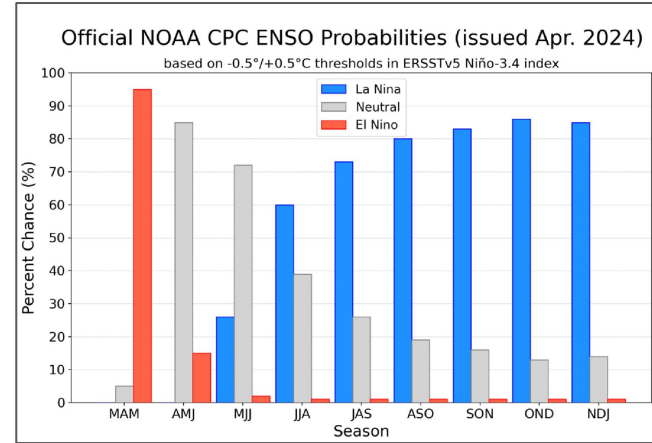
- Lower elevations (rain or early melt)
- Downstream of diversions / irrigation
- Little is known about diversions / demands

El Niño Southern Oscillation (ENSO) Status

EL NIÑO/SOUTHERN OSCILLATION (ENSO) DIAGNOSTIC DISCUSSION

issued by
CLIMATE PREDICTION CENTER/NCEP/NWS
11 April 2024

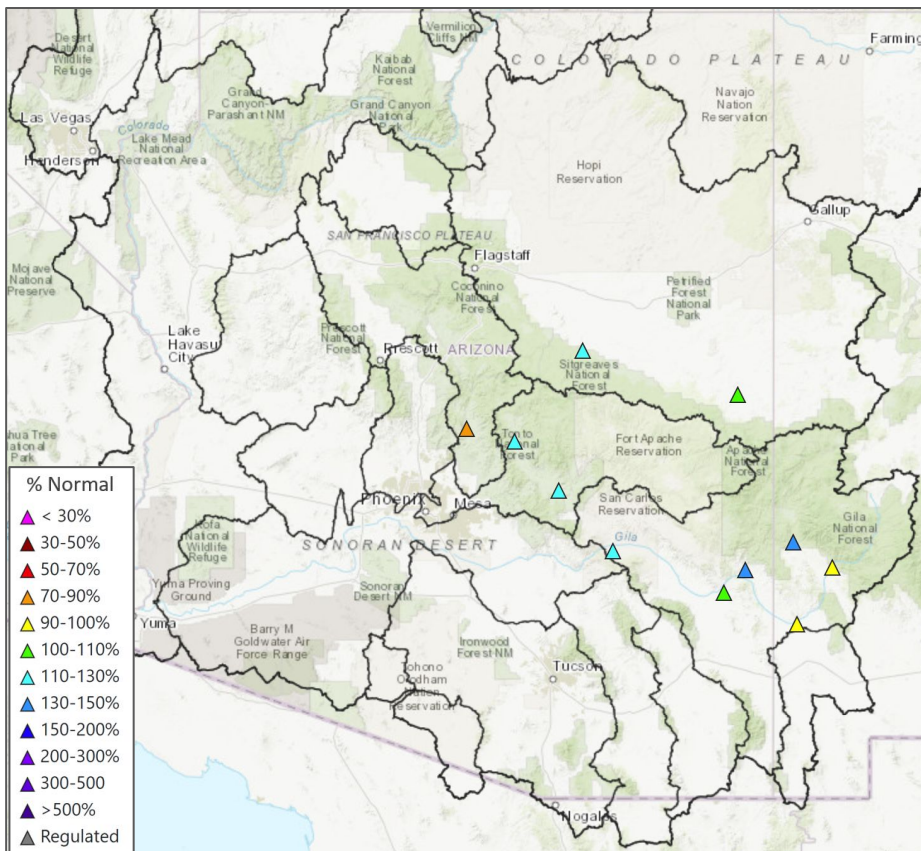
- A transition from El Niño to ENSO-neutral is likely by April-June 2024 (85% chance)
 - 60% chance of La Niña developing by June-August 2024














LCRB: Jan-May ESP Model Guidance (May 1)

Volume Range: 80-150%

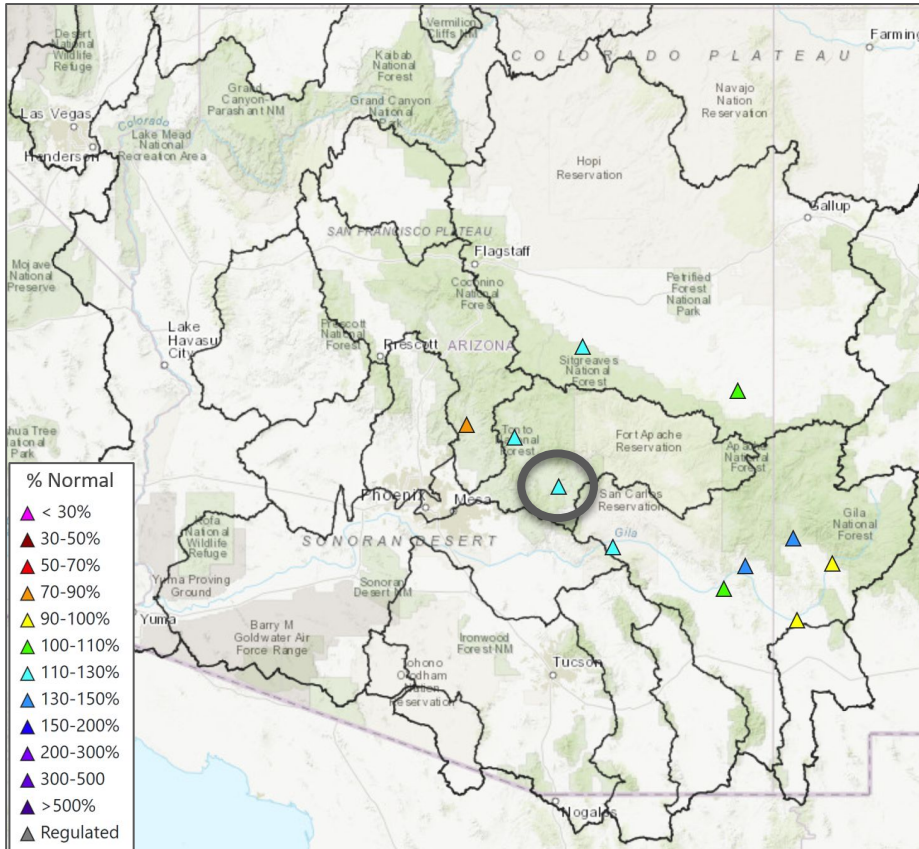
LCRB January-May runoff volume guidance is generally near normal (median).



| ID | Vol | %Avg | %Med | %ile | Description |
|--|------|------|------|------|---|
|  CHWA3 | 16.6 | 88 | 119 | 47 | Chevelon Ck - Winslow Nr Wildcat Cyn Blo |
|  CLDA3 | 82 | 42 | 113 | 52 | Gila - San Carlos Reservoir Coolidge Dam At |
|  GILN5 | 51 | 72 | 98 | 56 | Gila - Gila Nr |
|  GLHA3 | 116 | 53 | 110 | 54 | Gila - Solomon Nr Head Of Safford Vly |
|  GSFN5 | 27 | 72 | 149 | 64 | San Francisco - Glenwood Nr |
|  GVRN5 | 60 | 57 | 94 | 54 | Gila - Virden Nr Blue Ck Blo |
|  LCLA3 | 6.2 | 76 | 105 | 51 | Little Colorado - Lyman Lk Abv St. Johns Nr |
|  SFCA3 | 58 | 62 | 132 | 56 | San Francisco - Clifton |
|  SLRA3 | 285 | 74 | 114 | 50 | Salt - Roosevelt Nr |
|  TNRA3 | 48 | 60 | 122 | 55 | Tonto Ck - Roosevelt Nr Gun Ck Abv |
|  VDTA3 | 124 | 45 | 80 | 44 | Verde - Tangle Ck Blo Horseshoe Dam Abv |

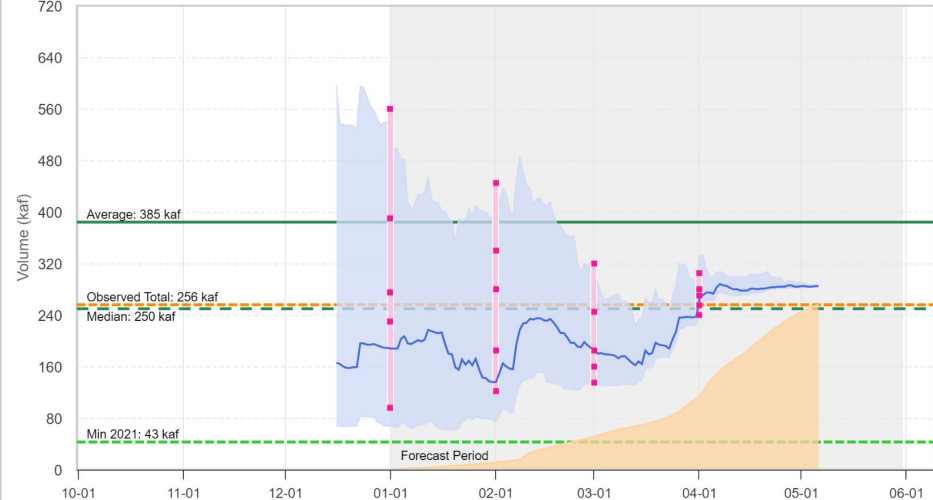
Salt River Basin

Jan and Feb forecasts assumed wetter than normal winter weather due to El Niño.
 March forecast declined due to drier than normal observed winter weather
 Wet March pushed volume forecast higher (near median)



2024 Water Supply Forecast - Salt - Roosevelt, Nr (SLRA3)

ESP is Unregulated and No Precipitation Forecast Included
 Official 50% Fcst (2024-04-01): 270 kaf (70% Avg, 108% Med), (49% of Yrs Below Fcst, 57 Highest Flow / 110 Tot Yrs)
 ESP 50% Fcst (2024-05-06): 285 kaf (74% Avg, 114% Med), (50% of Yrs Below Fcst, 56 Highest Flow / 110 Tot Yrs)
 Observed Volume: 256 kaf (67% Average, 102% Median)



Upcoming Weather: 7-Day Precipitation Forecast

A strong spring storm system has moved through the area, bringing precipitation and below average temperatures.

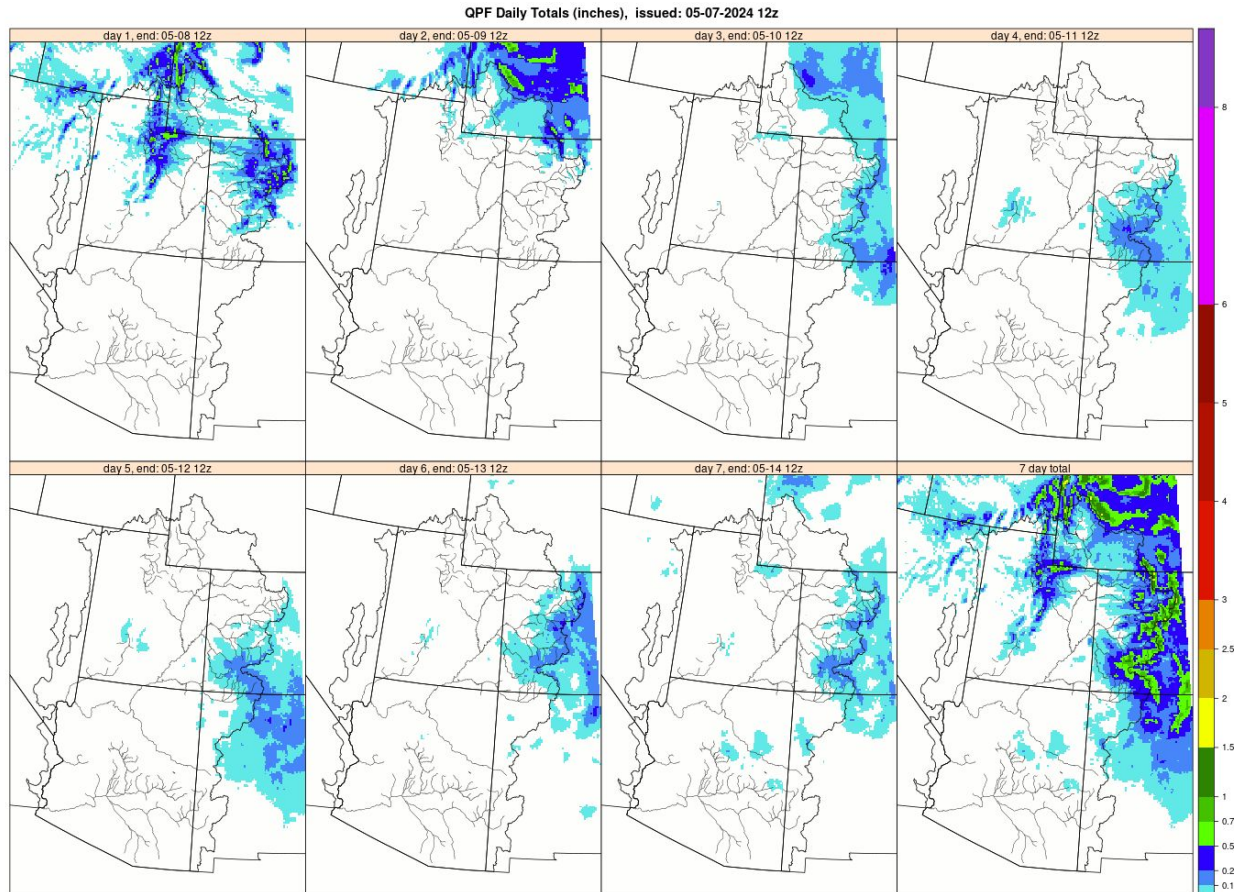
The weather pattern remains active through this weekend, with chances of precipitation for northern and eastern basins.

Temperatures will slowly warm, returning to near normal by this weekend.

7-Day Forecast Precipitation Totals

UCRB: 0.5" - 1.5"

LCRB: 0" - 0.1"



Upcoming Weather: 8-14 Day Outlook (May 14-20)

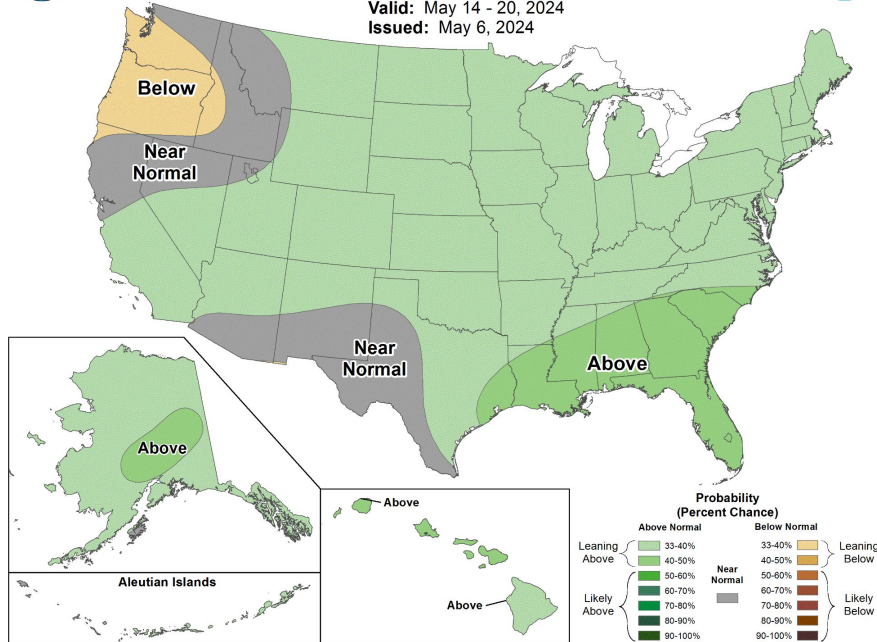
Near to slightly above normal precipitation favored over most of the western US.

Above average temperatures likely.



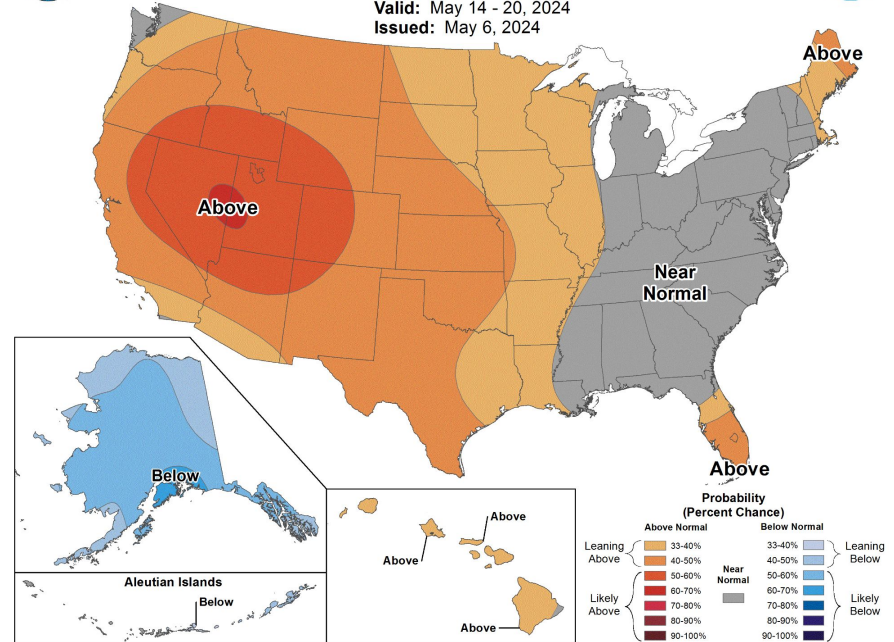
8-14 Day Precipitation Outlook

Valid: May 14 - 20, 2024
Issued: May 6, 2024



8-14 Day Temperature Outlook

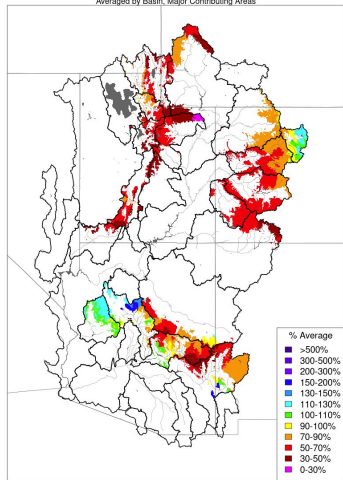
Valid: May 14 - 20, 2024
Issued: May 6, 2024



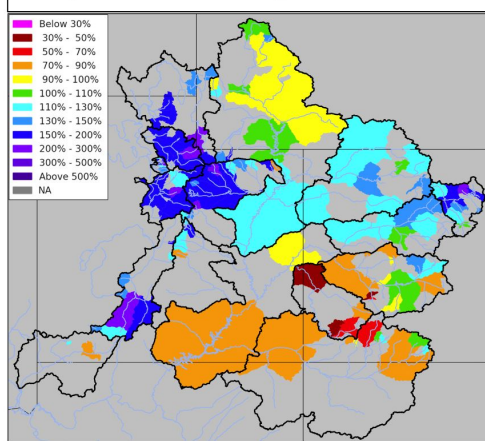
Summary

Monthly Precipitation - April 2024

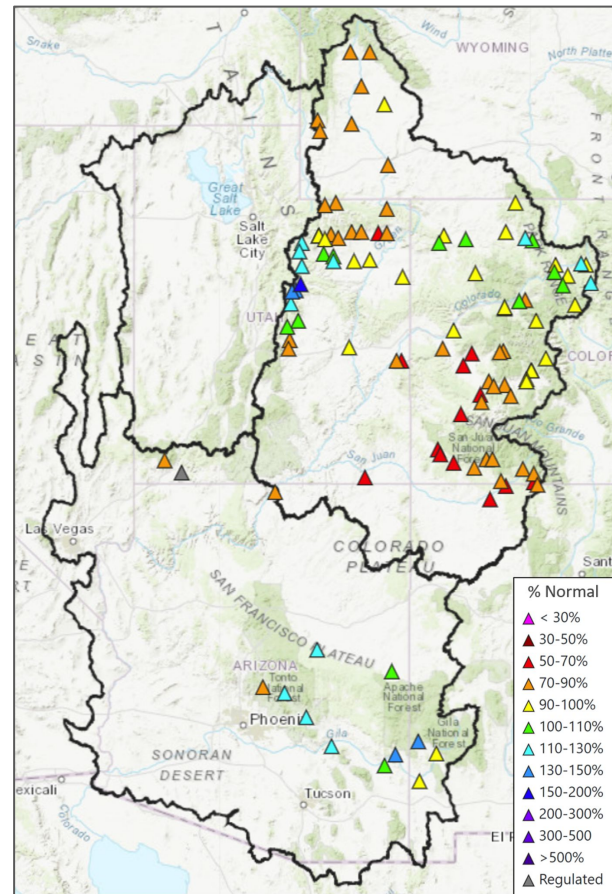
Averaged by Basin, Major Contributing Areas



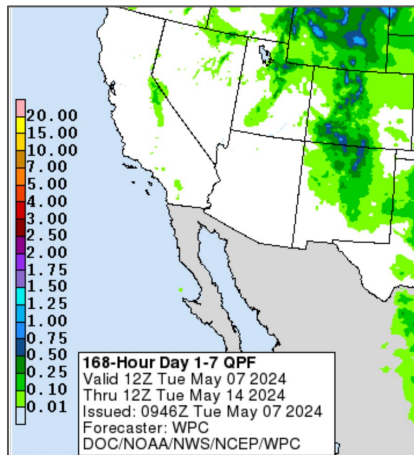
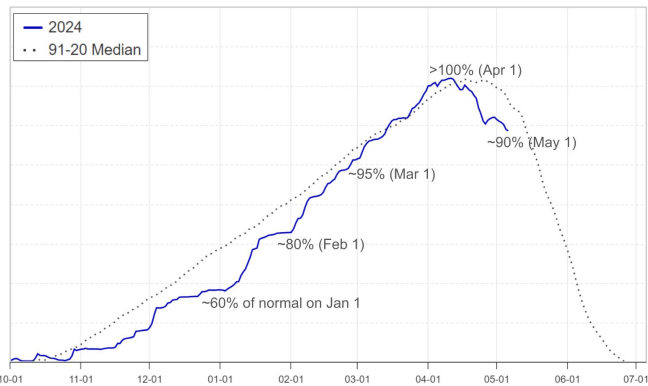
April 2024 Observed Unregulated Streamflow



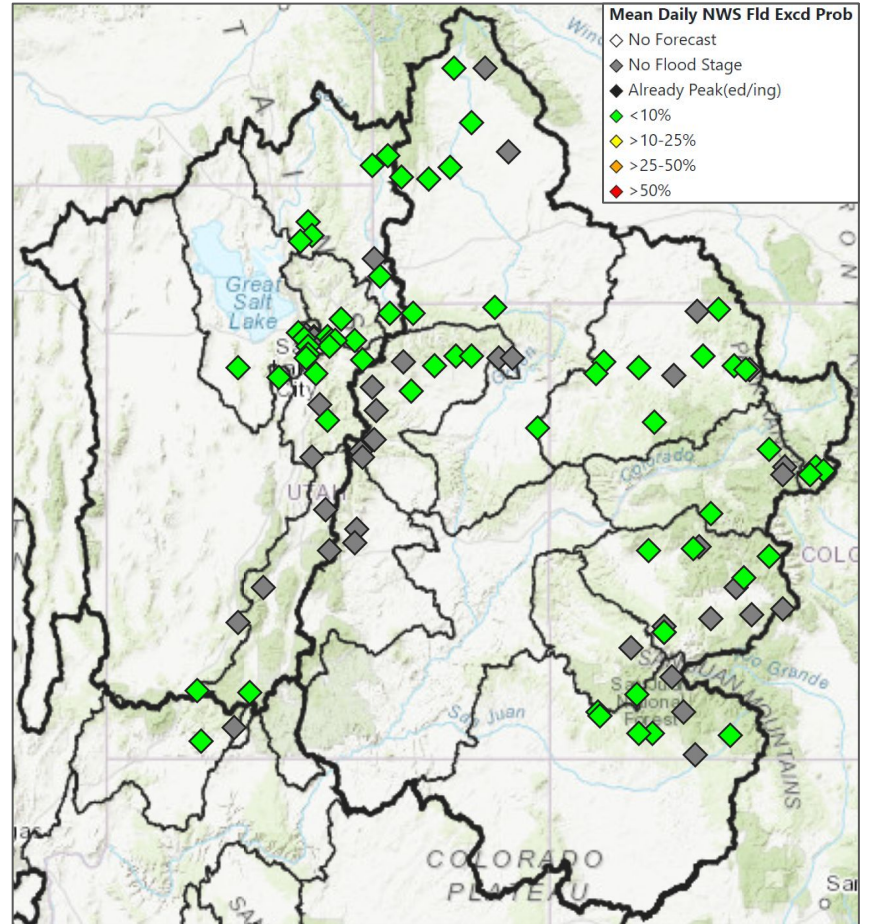
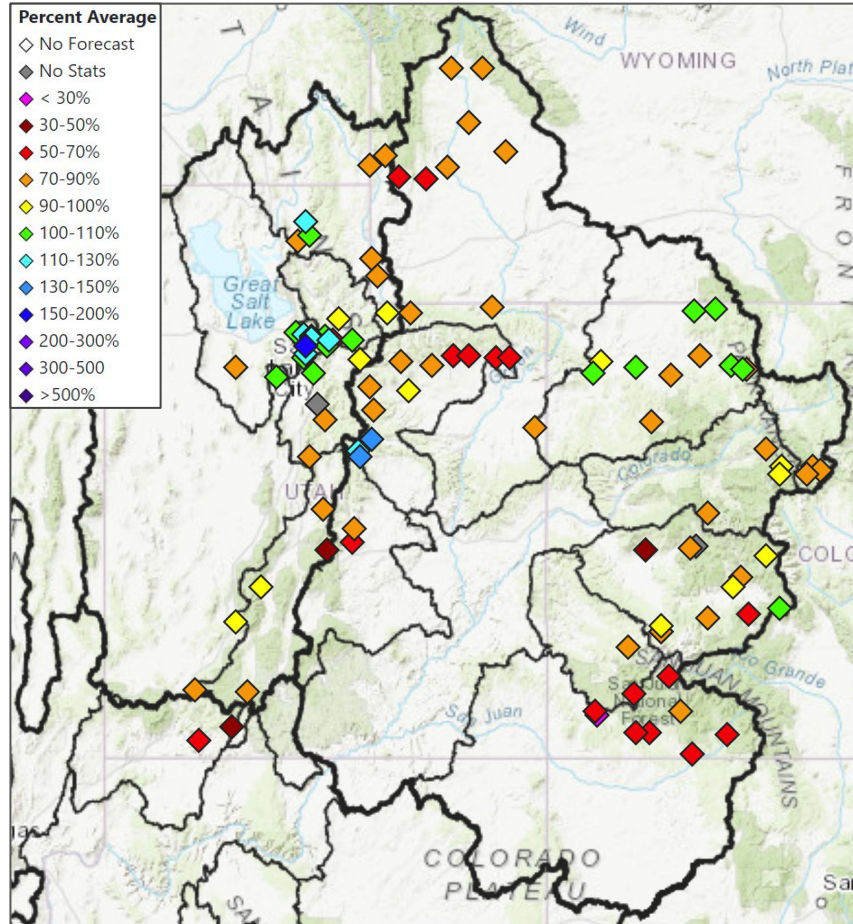
May 1 Water Supply Outlook
Percent of 1991-2020 Normal Seasonal Volume



SWE Above Lake Powell



Current Peak Flow Forecasts



Peak Flow Forecast Information

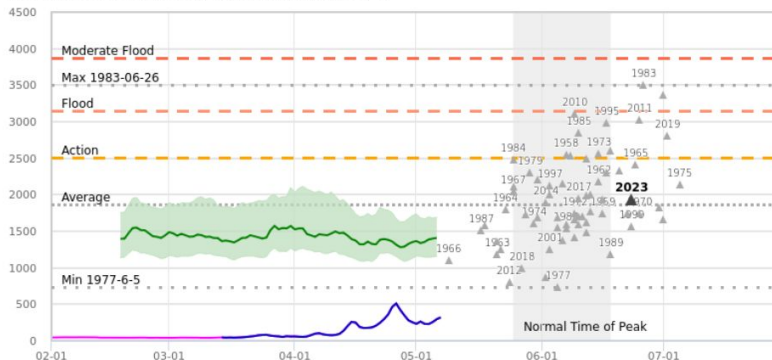
Daily Peak Flow Forecast - RCYC2 - Crystal - Redstone Nr Avalanche Ck Abv

Overview Forecast Tables Forecast Graphic 10-day Streamflow Forecast Historical Peaks Model Snow Help

| | |
|-----------------------------|---|
| Model Run Date | 2024-05-06 (Incl 7 Day Precip Forecast) |
| Flood Flow | 3149 cfs |
| 50% Forecast | 1409 cfs |
| Rank of 50% Forecast | 58th Highest Flow / 68 Total Years |
| Percentile | 16% of Years Below Forecast |
| Peak to Date | 519 cfs, on 2024-04-25 |
| Average Peak | 1873 cfs |
| Percent Average | 75% |
| Normal Time of Peak | 05-25 - 06-18 |
| Last Year's Peak | 1940 cfs, on 2023-6-23 |

Crystal - Redstone, Nr, Avalanche Ck, Abv (RCYC2) NOAA

7 Day QPF, Mean Daily ESP
 ESP 50% (2024-05-06): 1409 cfs (75% Avg), (16% below 58/68)



- Simulated
- Observed
- ESP 50
- ESP 10-90
- ▲ Last Year's Peak
- ▲ Historical Peaks

Daily Peak Flow Forecast Magnitude

| Exceedance Probability | Mean Daily Flow (cfs) |
|------------------------|-----------------------|
| Maximum | 1729 |
| 10% | 1691 |
| 25% | 1533 |
| 50% | 1409 |
| 75% | 1280 |
| 90% | 1160 |
| Minimum | 1125 |

Daily Peak Flow Forecast Timing

| Exceedance Probability | Date of Peak |
|------------------------|--------------|
| Latest | 06-30 |
| 10% | 06-23 |
| 25% | 06-19 |
| 50% | 06-10 |
| 75% | 06-04 |
| 90% | 05-30 |
| Earliest | 05-25 |

*NOTE: Forecast peak flow timing generally points to the 'normal time of peak' until the actual time of peak is near.

Peak flow timing is highly dependent on spring weather.

2024 Water Supply Webinar Schedule

**All Times Mountain Time (MT)*

Colorado River Basin

| | | |
|-----------|---------------------|------------------|
| Monday | Jan 8 th | 10 am |
| Wednesday | Feb 7 th | 10 am |
| Thursday | Mar 7 th | 10 am |
| Friday | Apr 5 th | 10 am |
| Tuesday | May 7 th | 10 am |

Utah/Great Basin

| | | |
|-----------|---------------------|---------------------|
| Monday | Jan 8 th | 11:30 am |
| Wednesday | Feb 7 th | 11:30 am |
| Thursday | Mar 7 th | 11:30 am |
| Friday | Apr 5 th | 11:30 am |
| Tuesday | May 7 th | 11:30 am |

Webinar schedule & registration information has been posted to the CBRFC web page

CBRFC Email Lists

Email Updates

Available Email Lists

- General Stakeholders
- Water Supply Forecasts:
 - Green River Basin
 - Upper Colorado Mainstem
 - San Juan, Gunnison and Dolores River Basins
 - Eastern Great Basin (Utah)
 - Virgin River Basin
 - Arizona
- Special Forecast Products:
 - Dolores River Basin
 - San Juan River Basin
 - CUWCD
 - Weber Basin
- Reservoir Forecast Products:
 - Reclamation Upper Colorado Reservoirs
 - Utah Reservoirs

Addition Requests

- [Request](mailto:cbrfc.webmasters@noaa.gov) to be on one of our lists by emailing cbrfc.webmasters@noaa.gov



Colorado Basin
River Forecast Center
National Weather Service

Water Supply Forecast Discussion May 1, 2024

The [Colorado Basin River Forecast Center \(CBRFC\)](#) geographic forecast area includes the Upper Colorado River Basin (UCRB), Lower Colorado River Basin (LCRB), and Eastern Great Basin (GB).

Water Supply Conditions Summary

April precipitation was generally below average across the region, the exceptions being the Colorado River headwaters above Kremmling and the Verde basins, where monthly precipitation was around average. Water year 2024 precipitation across significant runoff producing areas is generally near to below normal across the CRB and GB. Observed unregulated streamflow volumes during April were generally above average across the GB and central UCRB, near average across the Upper Green, and below average across southwest CO, where antecedent (Fall 2023) soil moisture conditions were also below normal.

Snow water equivalent (SWE) conditions as a percent of normal (median) declined during April and are near to below normal across the UCRB and GB. May 1 SWE conditions generally range between 70-100% of normal across the UCRB and 80-105% of normal across the GB. SNOTEL peak SWE generally occurred during the first half of April with SWE values near to above normal at most stations.

The water supply outlook has generally declined across the CRB and GB due to below average April precipitation. Forecasted seasonal (April-July) water supply volumes are most favorable in the GB, where water supply forecasts are generally near to above normal. UCRB seasonal volumes are variable, ranging from near normal across central areas to below normal in northern and southern basins.

A strong spring storm on May 5-6 brought widespread precipitation and below normal temperatures across the GB and UCRB. This storm system will stall over the northern Great Plains through mid-week, allowing for a series of quick moving disturbances to move across northern portions of the UCRB. This will continue chances of precipitation and below normal temperatures into Wednesday (May 8). Precipitation totals through this period will range from 0.5 to 1.5 inches, primarily across the northern half of the UCRB and GB. Once this storm system begins to move east, an area of low pressure will break off this main feature, and move southwest over the CRB. This system will be much weaker than the current storm, and will bring a slow warming trend to the region as well as another round of precipitation across CO Friday through Sunday (May 10-12). Precipitation totals will range from 0.1 to 0.75 inches, with the highest totals likely along the Continental Divide.

CBRFC Contacts & Water Year 2024 Basin Focal Points

Basin Focal Points (Forecasters)

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CBRFC Water Supply Presentations
<https://www.cbrfc.noaa.gov/present/present.html>