Water Availability Task Force Meeting

July 19th, 2022

NRCS Snow Survey and Water Supply Forecasting Program

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Major Basin Summary

South Platte River Basin

- Cache La Poudre
- Big Thompson
- Boulder-St Vrain
- Clear Creek
- Upper South Platte

Colorado Snow Surveys
Current as of 07/18/2022:
- % of Median - 96%
- % of WY Median - 77%
- Days Until End of WY - 74
- Percentile - 27
Blue Mesa Reservoir (09009010) Colorado RESERVOIR Site - 7550 ft
Reporting Frequency: Daily; Date Range: 2021-10-01 to 2022-09-30
CURRENT AS OF 07/18/2022:

- % of Median = 92%
- % of WY Median = 72%
- Days Until End of WY = 74
- Percentile = 37

Link to data: CSV / JSON

Station List:
- Max
- Median (POR)
- Median ('91-'20)
- Min
- Stats. Shading
- 2022 (20 sites)
- 2021 (20 sites)
- 2020 (20 sites)
- 2019 (20 sites)
- 2018 (20 sites)
- 2017 (20 sites)
- 2016 (20 sites)
- 2015 (20 sites)
- 2014 (20 sites)
- 2013 (20 sites)
- 2012 (20 sites)
- 2011 (20 sites)
- 2010 (19 sites)
- 2009 (19 sites)
- 2008 (19 sites)
- 2007 (19 sites)
- 2006 (19 sites)
- 2005 (19 sites)
- 2004 (18 sites)
- 2003 (18 sites)
Animas at Durango:
Note the early peak and spikes from monsoon rain but quick return to baseflow
Discharge, cubic feet per second
Most recent instantaneous value: 76.4 07-19-2022 08:00 MDT

Provisional Data Subject to Revision

- Median daily statistic (86 years)
- Discharge
- Value affected by equipment malfunction.
- Measured discharge
Reservoir Conditions for Upper Rio Grande on July 1st 2022

La Jara Reservoir
Beaver Reservoir
Terrace Reservoir
Mountain Home Reservoir
Santa Maria Reservoir
Rio Grande Reservoir
Sanchez Reservoir
Continental Reservoir
Platoro Reservoir

Reservoir Names

Upper Rio Grande Reservoir

Reservoir Percent of Median
RIODELCO - RIO GRANDE NEAR DEL NORTE, CO

Legend

Flags
- O - Original data as collected by the data collection platform
- Ice - Ice affected
- Obs* - Multiple flags were active during this timestep
PRECIPITATION IN ARKANSAS

Current as of 07/18/2022:
% of Median - 101%
% of WY Median - 78%
Days Until End of WY - 74
Percentile - 47

Link to data: CSV / JSON

Station List:
- Max
- Median (POR)
- Median ('91-'20)
- Min
- Stats. Shading
- 2022 (11 sites)
- 2021 (11 sites)
- 2020 (11 sites)
- 2019 (11 sites)
- 2018 (11 sites)
- 2017 (11 sites)
- 2016 (11 sites)
- 2015 (11 sites)
- 2014 (11 sites)
- 2013 (11 sites)
- 2012 (11 sites)
- 2011 (11 sites)
- 2010 (11 sites)
- 2009 (11 sites)
- 2008 (11 sites)
- 2007 (9 sites)
- 2006 (9 sites)
- 2005 (9 sites)
- 2004 (9 sites)
- 2003 (8 sites)
Discharge, cubic feet per second

Most recent instantaneous value: 692 07-19-2022 07:45 MDT

USGS 07094500 ARKANSAS RIVER AT PARKDALE, CO.

--- Provisional Data Subject to Revision ---

△ Median daily statistic (67 years) ★ Measured discharge
—— Discharge
PRECIPITATION IN STATE OF COLORADO

Current as of 07/18/2022:
- % of Median - 99%
- % of WY Median - 81%
- Days Until End of WY - 74
- Percentile - 47

Link to data: CSV / JSON
Station List
- Max
- Median (POR)
- Median ('91-'00)
- Min
- Stats. Shading
- 2022 (116 sites)
- 2021 (117 sites)
- 2020 (117 sites)
- 2019 (117 sites)
- 2018 (117 sites)
- 2017 (117 sites)
- 2016 (117 sites)
- 2015 (117 sites)
- 2014 (117 sites)
- 2013 (117 sites)
- 2012 (117 sites)
- 2011 (117 sites)
- 2010 (115 sites)
- 2009 (112 sites)
- 2008 (109 sites)
- 2007 (106 sites)
- 2006 (106 sites)
- 2005 (105 sites)
- 2004 (99 sites)
- 2003 (98 sites)
WY Precipitation

Colorado Snow Surveys

Water Year to Date Precipitation

 процент NRCS 1991-2020 Medium

October 1, 2021 - July 17, 2022

- Yampa-White-Little Snake
- Laramie and North Platte
- South Platte
- Colorado Headwaters
- Gunnison
- Arkansas
- Upper Rio Grande
- San Miguel-Dolores-Animas-San Juan

Map with various locations marked with precipitation data.
April-June Streamflow

Colorado Snow Surveys

Percent of 1991-2020 Median

- Yampa-White-Little Snake: 58% (95%)
- South Platte: 65% (64%)
- Gunnison: 81% (83%)
- Arkansas: 95% (63%)
- Upper Rio Grande: 75% (61%)
- San Miguel Dolores-Authur San Juan: 62% (61%)

Map showing percent of 1991-2020 median for different regions.
SNOTEL Soil Moisture

DEPTH AVERAGED SOIL SATURATION IN STATE OF COLORADO

Link to data: CSV / JSON

Station List
- Max
- Median (POR)
- Min
- Stats. Shading
  - 2022 (45 sites)
  - 2021 (45 sites)
  - 2020 (47 sites)
  - 2019 (45 sites)
  - 2018 (46 sites)
  - 2017 (41 sites)
  - 2016 (44 sites)
  - 2015 (42 sites)
  - 2014 (42 sites)
  - 2013 (41 sites)
  - 2012 (39 sites)
  - 2011 (39 sites)
  - 2010 (31 sites)
  - 2009 (29 sites)
  - 2008 (28 sites)
  - 2007 (24 sites)
  - 2006 (24 sites)

Statistical shading breaks at 10th, 50th, 90th, 70th, and 50th Percentiles
For more information visit: 360view.hydroclimaticNormals

*** Provisional Data
• Late June and July to date have brought well above normal precipitation to the mountains of every major river basin in Colorado.

• Reservoir storage remains below normal across the state.
  • The lowest storages are in the Gunnison and combined San Miguel, Dolores, Animas, and San Juan basins.
  • The Colorado and South Platte basins are holding the most storage in the state, relative to normal.

• Peak streamflows from snowmelt runoff occurred much earlier than normal in much of the state. Most notably in southwest Colorado.

• Despite spikes in streamflow resulting from precipitation events streamflows are generally remaining at below normal levels across the state.

• The snowmelt driven portion of the hydrograph is nearing an end for this year.
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