

# Water Conditions Monitoring Committee Meeting April 22<sup>nd</sup>, 2025

NRCS Snow Survey and Water Supply Forecasting Program

Nagam Bell Hydrologist Nagam.Gill@usda.gov http://www.nrcs.usda.gov/wps/portal/nrcs/main/co/snow/

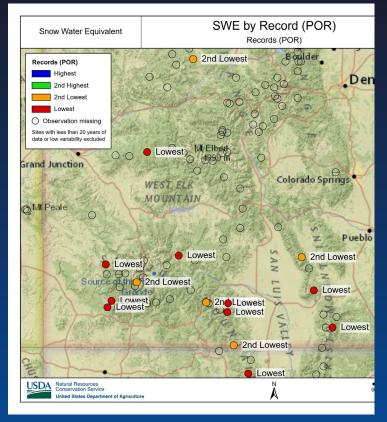


## Statewide Conditions as of 04/01/25 & 04/01/24

- Snow water equivalent 86% compared to 111% this time last year
- WYTD precipitation 92%
   & 103% (2024)
- 30 day precipitation 104%
  & 156% (2024)
- 60 day precipitation 100%
  & 130% (2024
- Median Streamflow forecasts 86%
- Soil moisture 20" ranges from 56–149%.
  8" VWC ranges from 67–119%

## Statewide Conditions as of 04/20/25

- Snow water equivalent 80%
- WYTD precipitation 98%
- 30 day precipitation 80%
- 60 day precipitation 79%



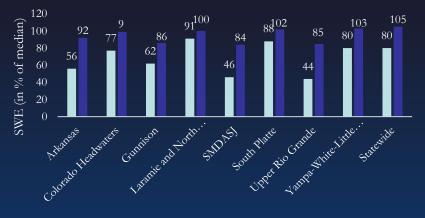
### April 18<sup>th</sup>

\*Largely, reported values are 30 year medians with exception of 30 and 60 day precipitation noted as POR median

Snow Water Equivalent April 20th 2025 vs April 20th 2024

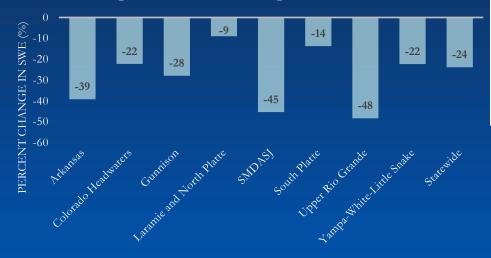
**United States Department of Agriculture** 

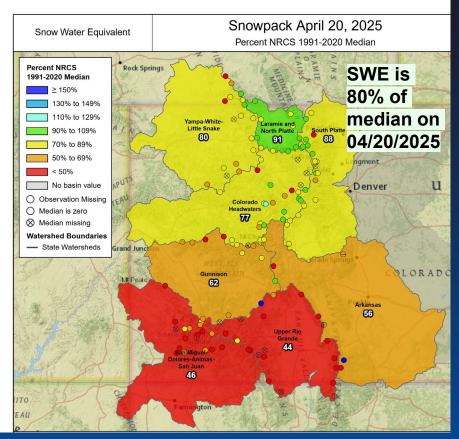
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■2025 ■2024

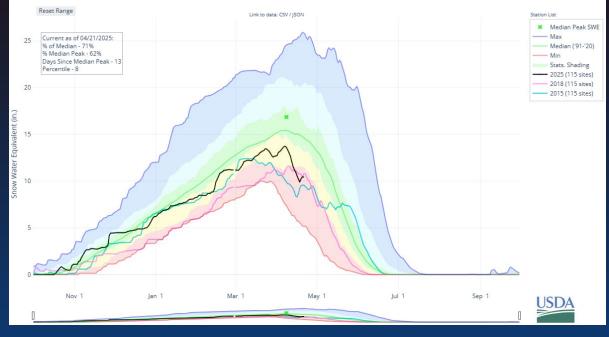
#### Percent Change in Snow Water Equivalent, April 20th 2025 vs April 20th 2024



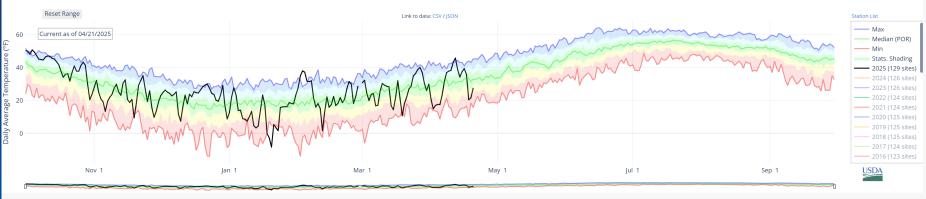








DAILY AVERAGE TEMPERATURE IN STATE OF COLORADO

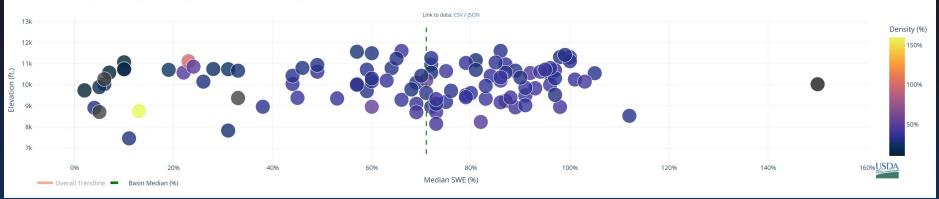


Statistical shading percentiles are calculated from period of record (POR) data, excluding the current water year. Percentile categories range from: minimum to 10th percentile, 10th - 30th, 30th - 70th, 70th - 90th, and 90th - maximum. For more information visit: <u>30-Year Hydroclimatic Normals</u>

Updated: Monday, Apr 21, 2025 01 PM CST



#### SNOWPACK BY ELEVATION IN STATE OF COLORADO APRIL 21, 2025

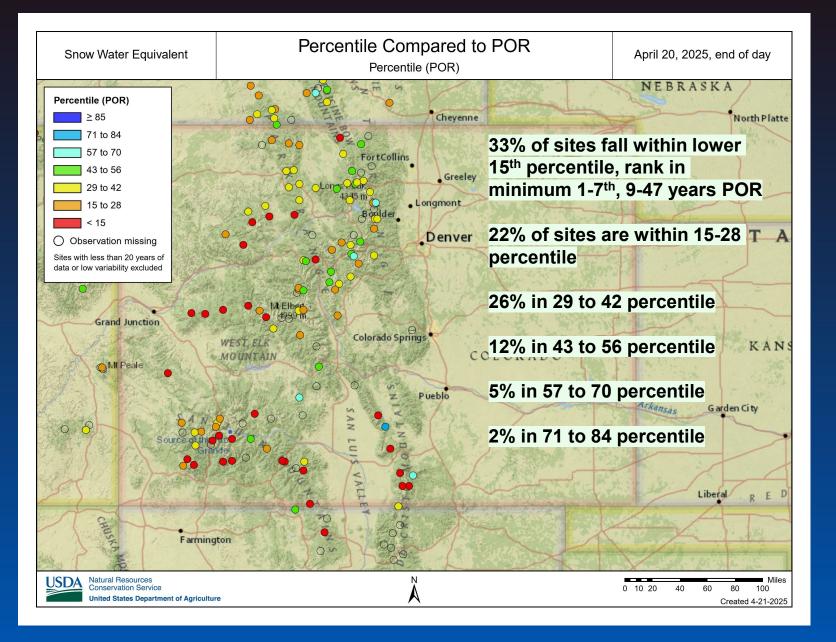


#### SNOWPACK BY ELEVATION IN SAN MIGUEL-DOLORES-ANIMAS-SAN JUAN APRIL 21, 2025

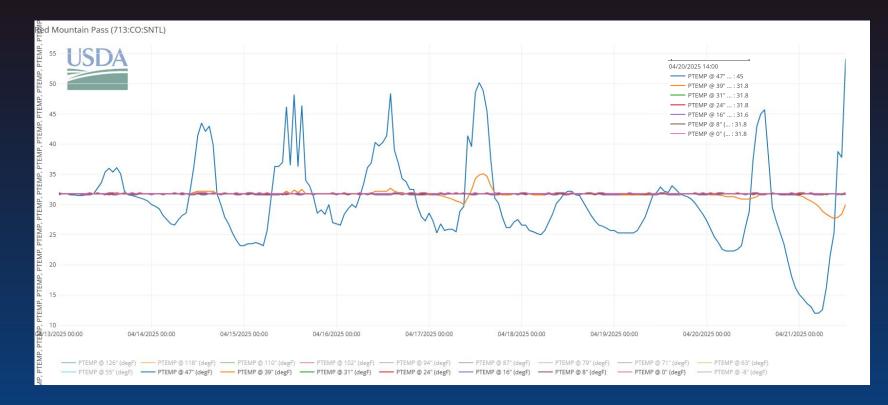




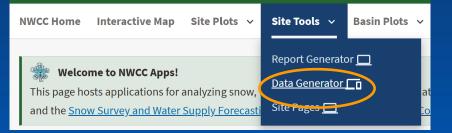
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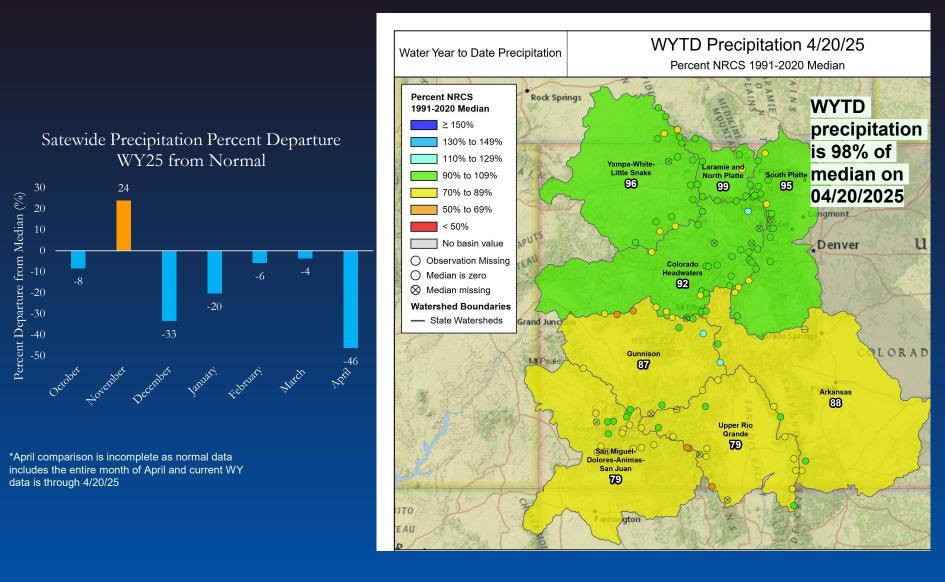


#### **NWCC** | National Water and Climate Center

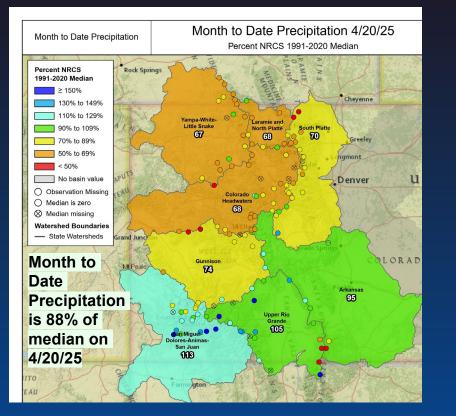


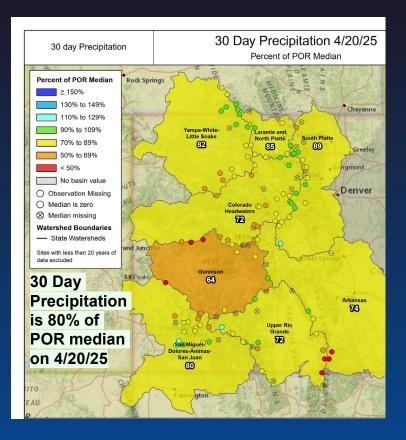
### Median melt out date is June 10<sup>th</sup> at Red Mountain Pass



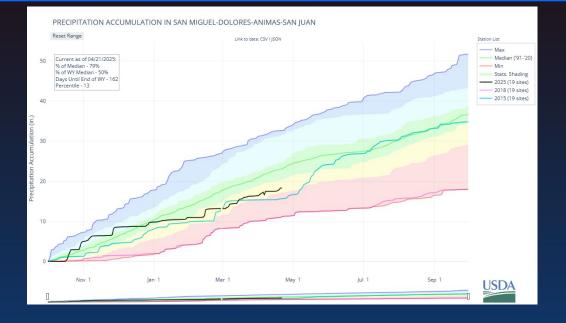


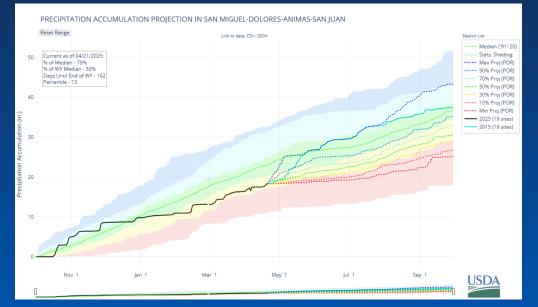




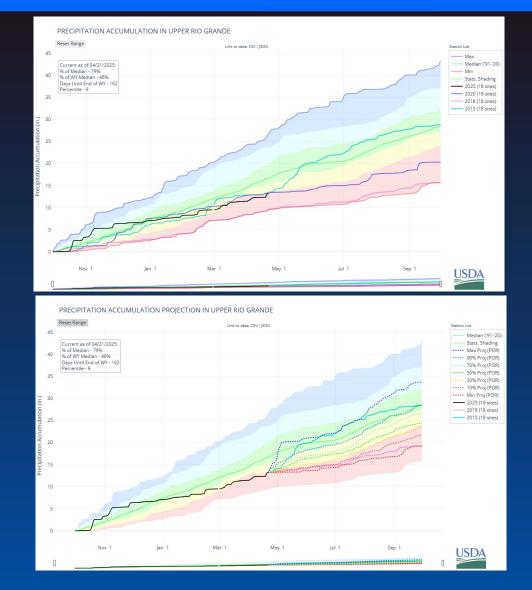




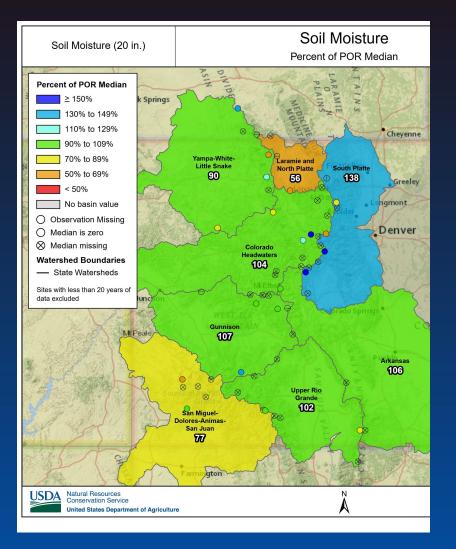


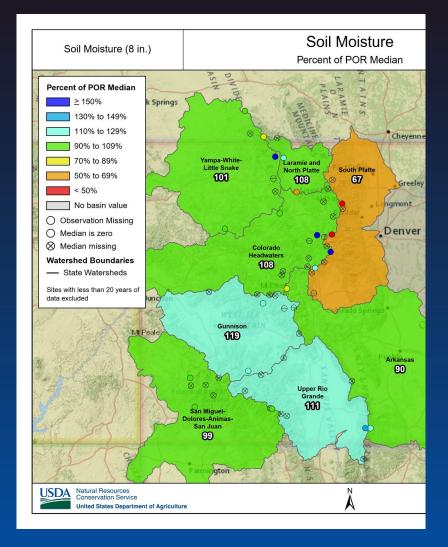




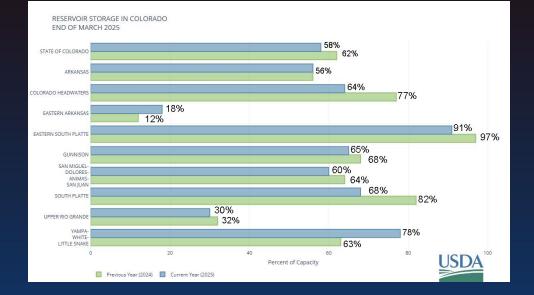






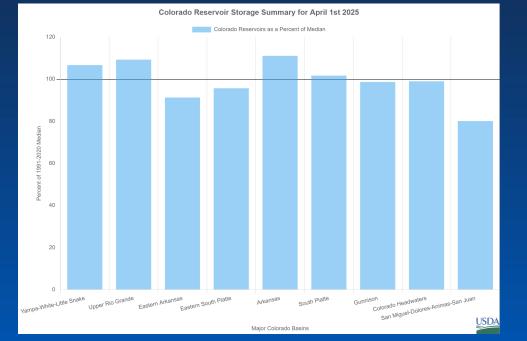




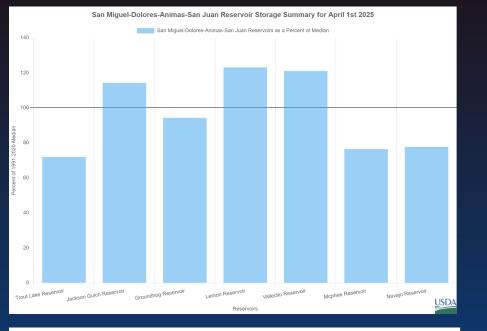


Statewide Reservoir storage is at 94% of median on April 1<sup>st</sup> 2025 compared to 99% April 1<sup>st</sup> 2024

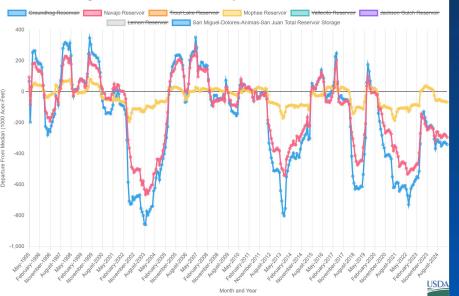
#### - SMDASJ 80% of median







San Miguel-Dolores-Animas-San Juan Departure From Median Timeseries Plot



Mcphee Reservoir storage capacity is 56% & 76% of median. Anomaly (POR) -64 kac-ft

Navajo Reservoir storage capacity is 60% & 78% of median. Anomaly (POR) -161 kac-ft



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### Colorado Snow Surveys

Available Basins 58 Options
Gunnison
Select a basin to create a report.

O Show All Sites Use Scroll Bar Choose how site data should be displayed Display Reports Snowpack Precipitation Forecasts Reservoirs

Select the reports you'd like displayed

Search:

Reservoir Summary for for April 1, 2025

GUNNISON						Water Year 2025		v	/ater Year 2024	
Site 🔶	Elevation (ft)	Capacity (kaf) 💧	Median (kaf) 💧	Median % Capacity	Storage (kaf)	🕴 % Capacity 💧	% Median 💧	Storage (kaf)	% Capacity	% Median 💧
Blue Mesa Reservoir	7520	830	514.8	62	496.105	60	96	551.167	66	107
Crawford Reservoir	6470	14	7.5	54	7.316	52	98	8.361	60	111
Crystal Reservoir	6760	17.5	8.6	49	9.184	52	107	8.967	51	104
Fruitgrowers Reservoir	5470	3.6	3.8	106	2.638	73	69	2.99	83	79
Fruitland Reservoir	7320	9.2	2.2	24				1.321	14	60
Morrow Point Reservoir	7190	121	109.8	91	114.733	95	104	107.468	89	98
Paonia Reservoir	6460	15.4	2.5	16	6.41	42	256	3.822	25	153
Ridgway Reservoir	6710	83	68.3	82	72.36	87	106	66.676	80	98
Silverjack Reservoir	8860	12.8	4.8	38	1.134	9	24	1.368	11	29
Taylor Park Reservoir	9340	106	68.6	65	68.93	65	100	68.757	65	100
Vouga Reservoir	8590	0.92	0.76	83	0.1	11	13	0.095	10	13
Basin Index						65	99		68	104
# Reservoirs						10	10			11

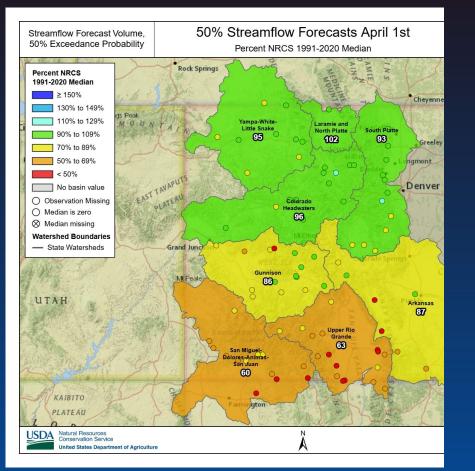
11 Reservoirs in GUNNISON

Export Reservoir Table

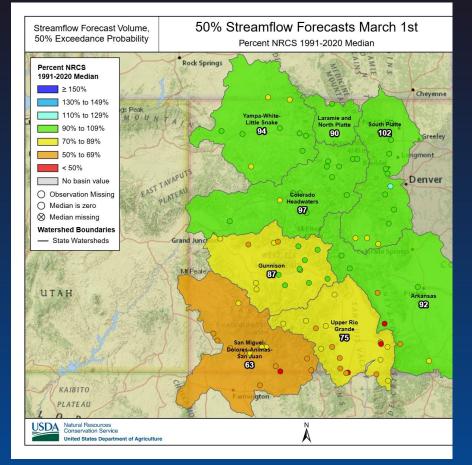
Scan QR code to access monthly basin reports







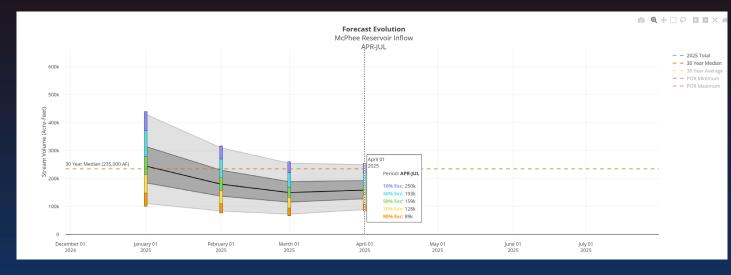
Statewide 50% exceedance probability April 1<sup>st</sup> is 86%



Statewide 50% exceedance probability March 1<sup>st</sup> is 88%

					Supply F April 1, 20			robabili	lies				
Forecast Point	Forecast Period			Drier els on chart i	r	Future	Conditior	ns	Wette				
				89		119	141		165		205		
Dolores R at Dolores	Apr-Jul										205		
Dolores R bl Mcphee Reservoir	Apr-Jul			89	1:		159		193		2 235	50	
San Miguel R nr Placerville	Apr-Jul					72		89	101	114	121	135	
Rio Blanco bl Blanco Diversion	Apr-Jul		15	20	24	28		35			48		
Navajo R bl Oso Diversion Dam	Apr-Jul		16	22	26	31	38				56		
nr Chromo San Juan R nr Carracas	Apr-Jul		87	120 146	<b>3</b> 174		220				335		
Piedra R nr Arboles	Apr-Jul		53	73	88	104		131			175		
Los Pinos R nr Bayfield	Apr-Jul				87		110	128	147		17 169	7	
San Juan R nr Archuleta	Apr-Jul		173	245	305	370		475			630		
Animas R at Durango	Apr-Jul				2	)5	250	285	320		375 375		
Florida R bl Lemon Reservoir	Apr-Jul				22	28		33	38		46 45		
nr Durango La Plata R at Hesperus	Apr-Jul			6.9	9.5	12		14		17	19		
Mancos R nr Mancos	Apr-Jul	2.8	ŧ	5.6	8		11				16		
	10	% 20%	30%	40%	50% Perc	60% ent of Me	70% dian (19			0%	16 100%	110%	
egend <u>95%</u> or 90% Exceedance	6	70% Exceed			50% Exceedar	<u></u>			0% edance		10 Ex	% or <u>5%</u> cedance	_
There is a 95%/90% cha	ance that	There is a 70% flows will exceed	chance that	There	e is a 50% cha	ince that	Tř flor	ere is a 30	% chance that eed this volume	. · ·	There is a 1	0%/5% chan	ice
	Record Min. low KAF (Ye		1991-202	wing historio 20 Normal flow KAF		ow values Observed			F Pe	wn. riod of R Streamflo	ecord M	aximum	

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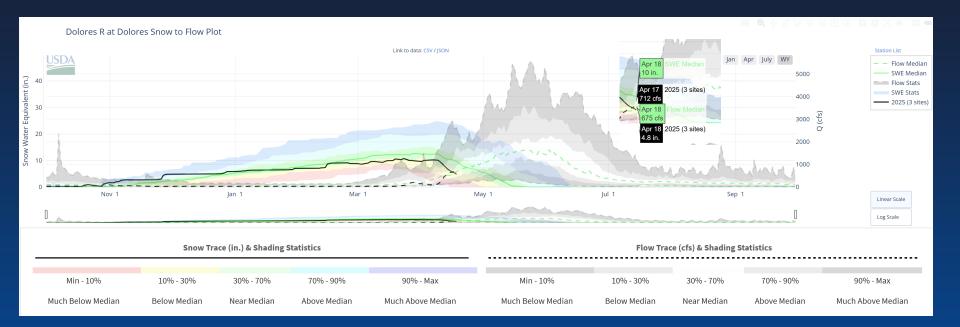




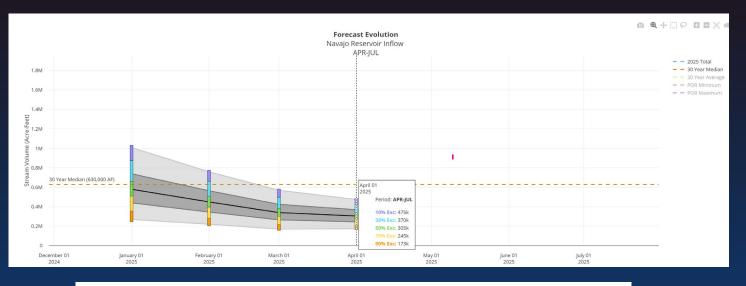
Forecast Evolution McPhee Reservoir Inflow APR-JUL - - 2024 Total - - 30 Year Median 600k - - 30 Year Average 500k 400k no, 300k 30 Year Median (235,000 AF) JU 200k 2024 Total (114,198 AF) 100k 0 -December 01 2023 January 01 2024 February 01 2024 March 01 2024 April 01 2024 May 01 2024 June 01 2024 July 01 2024

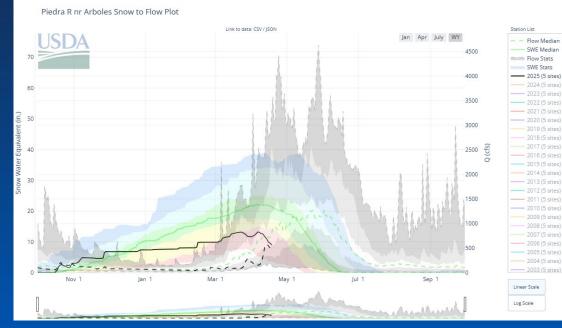
Scan QR code to access Forecast Evolution Plots



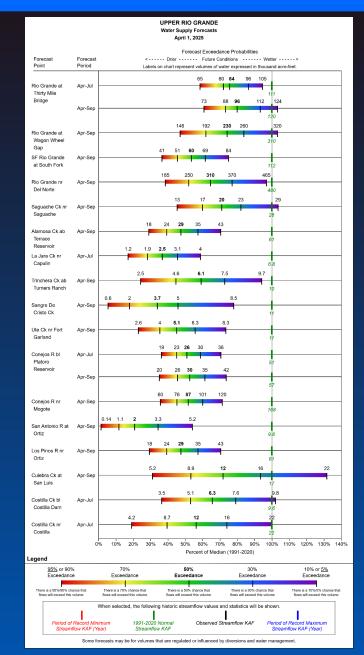


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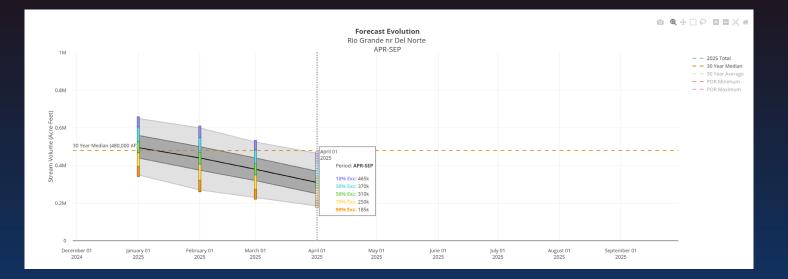


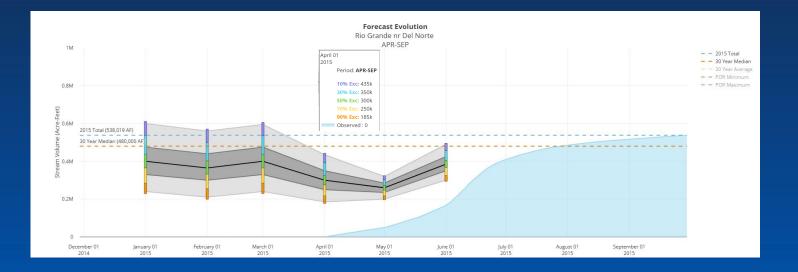






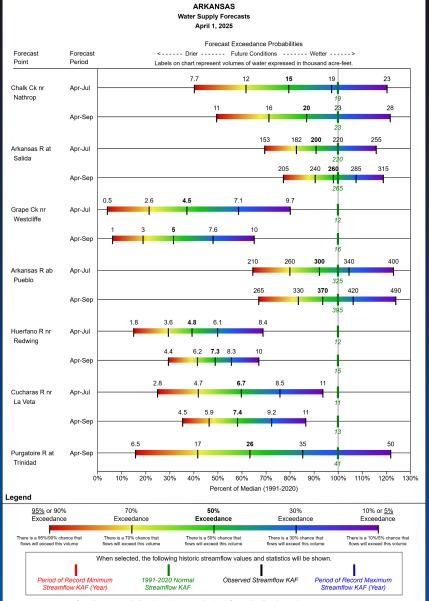






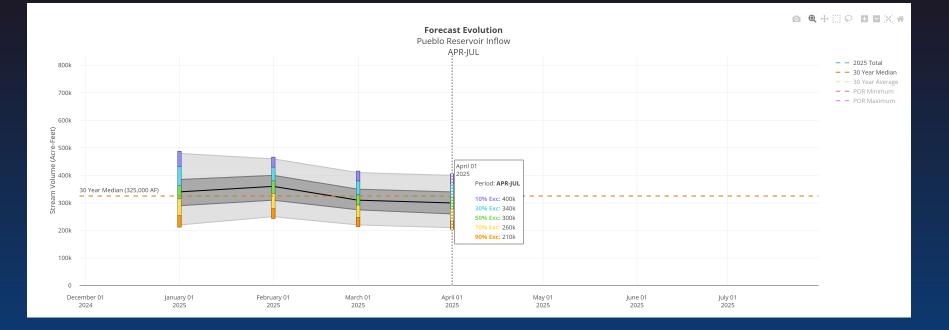






Some forecasts may be for volumes that are regulated or influenced by diversions and water management.

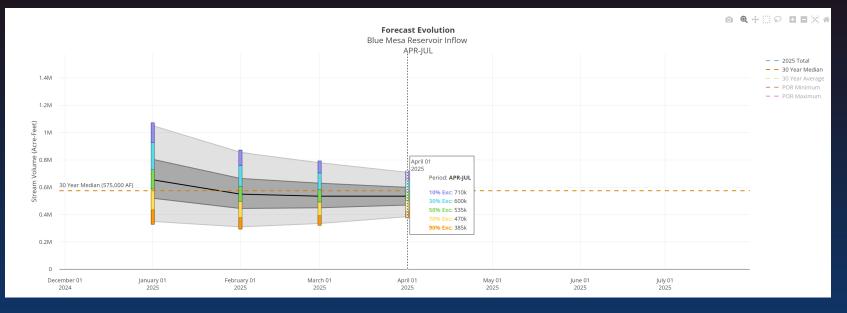


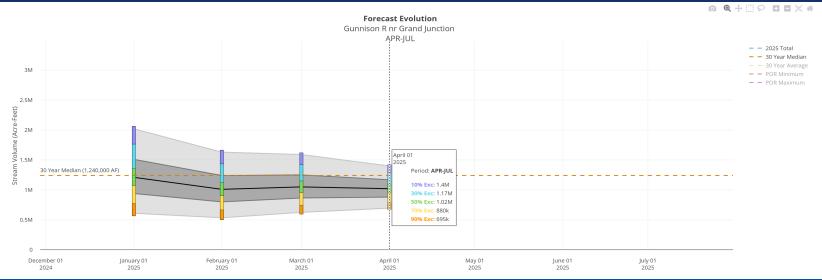


Pueblo Reservoir is at 109% of 30 yr median and 70% of storage capacity. Median streamflow forecast at Pueblo Reservoir inflow is 300 acre-feet

			Water S	UNNISO upply Foi oril 1, 202	recasts					
						nce Probat				
Forecast Point	Forecast Period		Drier							
	Fellou	Labei	s on chart re	present vo						
Taylor R bl Taylor	Apr-Jul				63	75	84	93	108	3
Park Reservoir	Api-Jui						91			
				53	63	70	77	89		
Slate R nr	Apr-Jul									
Crested Butte							76			
East R at Almont	Apr-Jul			119	9 1	40 156	172	1	98	
						' 'ı	62			
				215	260	295	330	3	85	
Gunnison R Near Gunnison	Apr-Jul					<b>•</b>	15		1	
Near Ourinison			16		22	27	15	32		
Tomichi Ck at	Apr-Jul					2/		32		
Sargents			•		•	•	28	•		
Coshotono Cl: H	Apr. Int	3.8	6.5	8.8		11			16	
Cochetopa Ck bl Rock Ck nr	Apr-Jul						12			
Parlin		2	9	42		53	1	65		
Tomichi Ck at	Apr-Jul									
Gunnison							58			
Lake Fk at	Apr-Jul			80	96	107 1	19	138		
Gateview	npi oui						20			
				385	470	535	600		710	
Gunnison R at Blue Mesa Dam	Apr-Jul									
Blue Mesa Dam		13 21 <b>28</b>	35		48	5	75			
Muddy Ck bl	Apr-Jun	13 21 28	35		40		<u> </u>			
Paonia							53			
Reservoir	Mar-Jun	17 24 <b>31</b>	38	51	1		<u> </u>			
			'				59			
		108	138	160	184	220				
NF Gunnison R nr Somerset	Apr-Jul	<b>F</b>					30			
in comeract		4.1 5.4 6.	<b>3</b> 7.3	8.9		4	30			
Surface Ck at	Apr-Jul						-			
Cedaredge							13			
Uncompahgre R	Apr-Jul			51	74	83 93		108		
bl Ridgway	Aproul						95			
Reservoir			73	92	106	121		145		
Uncompahgre R at Colona	Apr-Jul									
at Colona			695	880	1,020	1 1,170	26	1,400		
Gunnison R nr	Apr-Jul		695	880	1,020	1,170	<u> </u>	1,400		
Grand Junction			•	'	'	1,	240	•		
	20	)% 30% 40% 50	% 60%	70%	80%	90% 1	00% 1	10% 120	% 130%	140%
_egend				Percen	nt of Media	an (1991-20	020)			
<u>95%</u> or 90%		70%		50%			30%		100/	or <u>5%</u>
Exceedance	9	Exceedance	E	ceedanc	e	Ex	ceedanc	е	Exce	edance
There is a 95%/90% ch:	ince that	There is a 70% chance that	There is	a 50% chanc	se that	There in .	a 30% chan	-e that	There is a 10°	USK choose
flows will exceed this	volume	flows will exceed this volume	flows wil	l exceed this v	volume	flows will	axceed this	volume	flows will exc	ceed this vo
		When selected, the follow	ng historic	streamflow	v values a	nd statistic	s will be	shown.		
	Record Min	imum 1991-202				1		_	Record Ma	
					bserved S					







# Summary

- Median statewide snow water equivalent is at 80%. March brought increased storm activity. At the end of March accelerated snowmelt is observed statewide and particularly more pronounced in southern basins due to warming spring temperatures.
- Statewide WYTD precipitation is 94% of median. Ranging from 79% in the combined SMDASJ & URG to 99% in the combined Laramie-North Platte. Month to date precipitation is 88% of median, with southern basins favored.
- Statewide reservoir storage is at 92% of median an 8% decrease from this time last year
- Soil moisture readings at both 8" and 20" depths show increased saturation in response to early melt, especially in southern basins where fall precipitation helped improve runoff efficiency. The South Platte remains an outlier with lower shallow soil moisture, likely due to dry early season conditions and faster percolation. Deeper soil layers in the South Platte have begun to recover with recent inputs.
- Statewide streamflow forecasts have slightly decreased from March to April, with the 50% exceedance probability dropping from 88% to 86%. The most notable decreases are in the SMDASJ & URG. April forecasts generally improved in the Arkansas and in northern basins.



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