



NAWC INC

North American Weather Consultants, Inc.

Applied Meteorology, Meteorological Research, Weather Modification

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May 1, 2025

Chance Baxter
Bear River Water Conservancy District
102 West Forest Street
Brigham City, UT 84302

Dear Mr. Baxter:

This report covers seeding activities conducted for the Northern Utah cloud seeding program through the month of April 2025. Most of the month was dominated by dry weather and above normal temperatures with upper-level ridging situated across the Great Basin region. There were several stormy periods that developed at the beginning of the month, around mid-month and again during the last week of the month but only one storm event provided favorable weather conditions for seeding. That event is summarized in Table 1.

Table 1
Summary of Operations in Northern Utah Cloud Seeding Program April 2025

Storm Number	Date	No. of Manual Seeding Sites	No. of Manual Hours	No. of Remote Seeding sites	No. of Remote Hours
34	April 17-18	2	22.5	10	90.25
April Total	---	---	22.5	---	90.25
Season to Date	---	---	1985.5	---	1715.7

Table 2 contains current snow water content and water year precipitation information for stations in the Bear River Basin as of May 1, 2025. It's important to remember that significant snow melt can occur during the month of April, especially during stretches of dry and mild weather. As such, Snow Water Equivalent percentages for the date may be much lower than they were at the start of the month. The Bear River Basin, as a whole,

has about 85% of the median snow water content, and 101% of the mean precipitation total accumulated since October 1.

Figure 2 is a graph of the SWE values for the Garden City Summit site so far this season. Figure 3 is a map of basin snow water equivalent (SWE) for the state of Utah as of May 1, 2025 and Figure 4 is a map that shows the percentage of average precipitation that was observed across the United States during April 1-27, 2025. Greenish colors indicate above normal precipitation while brownish colors indicate below normal. The Bear River Basin in Utah received below normal precipitation through most of the month of April.

Table 2
Snow Water Content and Water Year Precipitation as of May 1, 2025

Measurement Site	Elevation (ft)	Snow Water Equivalent		Water Year Precipitation	
		Amount (in)	% of Median	Amount (in)	% of Median
Trial Lake	9992	20.4	89	26.0	105
Hayden Fork	9212	1.8	19	22.6	98
Lily Lake	9156	5.3	50	16.0	89
Monte Cristo	8960	17.7	72	26.2	94
Tony Grove Lake	8474	27.9	88	38.0	99
Franklin Basin	8170	26.0	111	33.1	106
Bug Lake	7950	10.1	70	20.6	106
Temple Fork	7406	0.5	8	17.8	92
Little Bear	6544	0.0	Missing	20.6	87
Bear River Basin	---	---	85	---	101

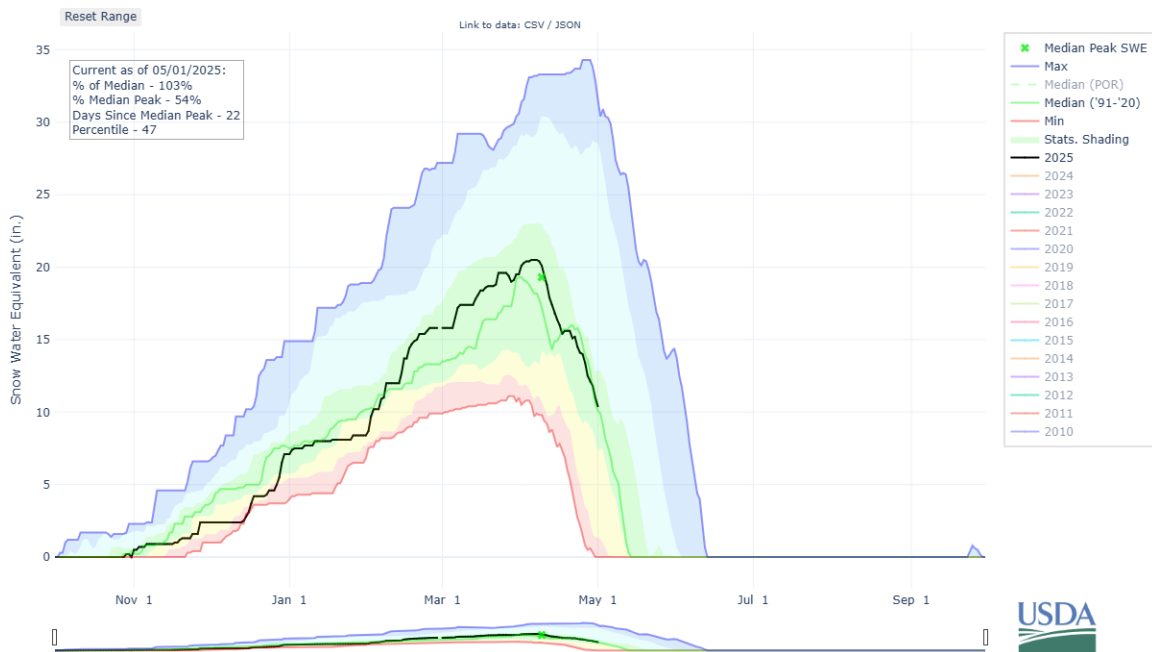


Figure 2. Time series of the Garden City Summit SNOTEL water year precipitation to date (black line) in comparison to climatological maxima (purple), minima (red) and median values (green line). Data are current as of May 1, 2025.

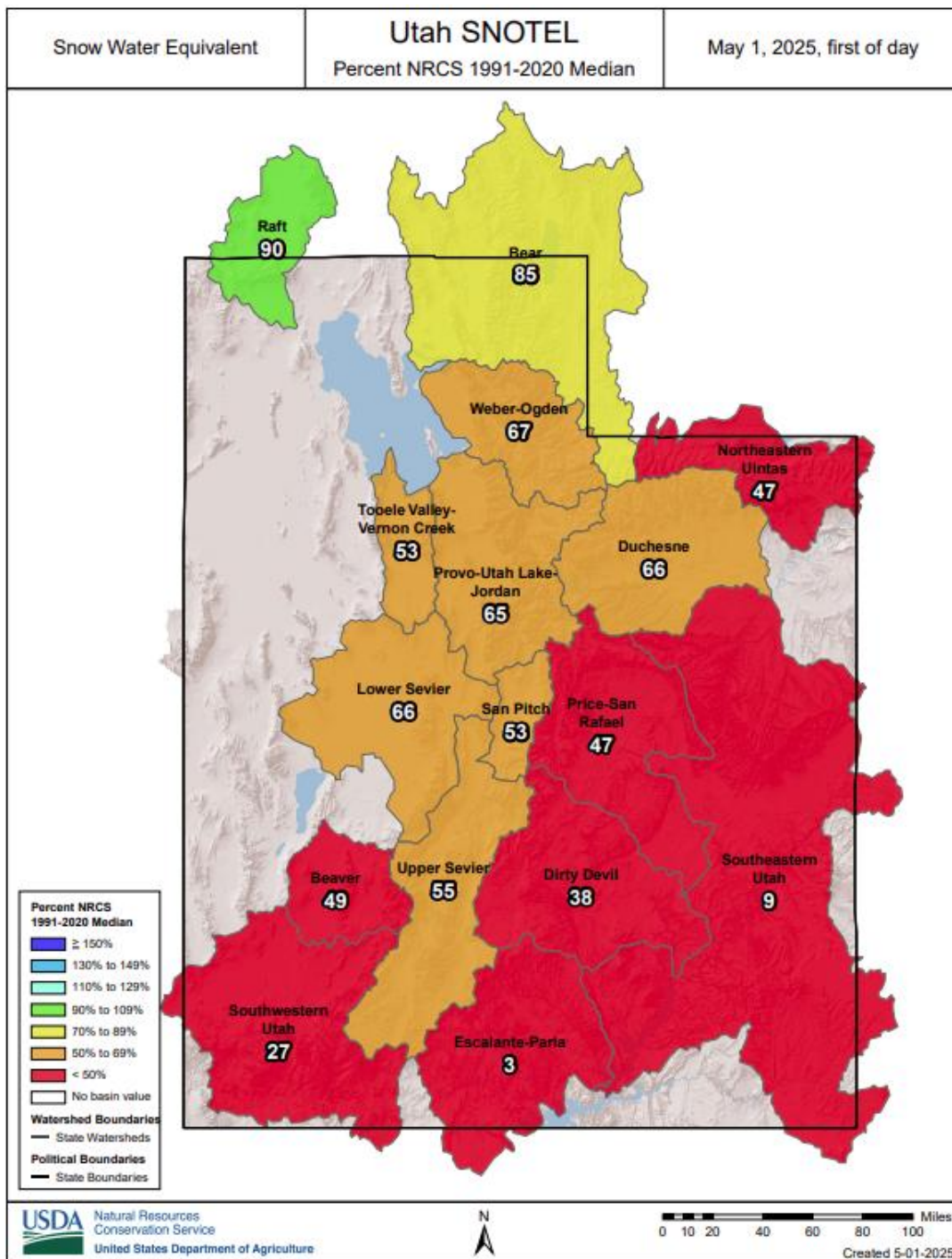


Figure 3. Snow water equivalent (as a percentage of median values) across Utah basins as of May 1, 2025

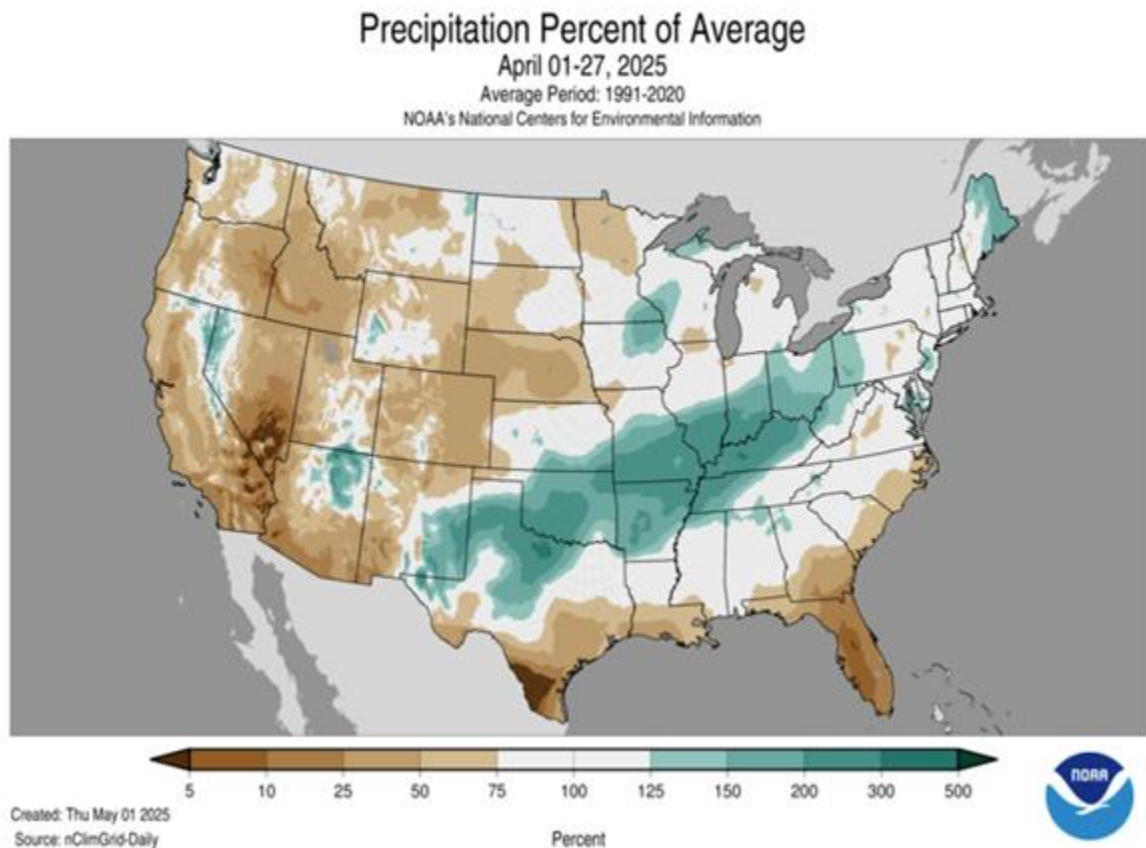


Figure 4. Percent of average precipitation observed across the US April 1-27, 2025 (courtesy of NECI/NOAA)

The seeding program concluded on April 30, 2025. The final report for the program will be delivered later this summer. Please call us with any questions or comments.

Sincerely,
Cole Osborne, CCM
Meteorologist, North American Weather Consultants

cc: Nathan Daug, Cache County Water District
Jonathan Jennings, Division of Water Resources