



North American Weather Consultants, Inc.

Applied Meteorology, Meteorological Research, Weather Modification

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February 3, 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 East Shore cloud seeding program through the month of January 2025.

The weather pattern throughout most of the month featured a fairly dry and cold northerly flow with most passing storm systems having very little moisture. As a result, precipitation and snowpack trended from above normal at the beginning of January to below normal by the end of the month. There were three storm systems that brought suitable conditions for seeding operations however, and those are summarized in Table 1. So far, there have been 1214.25 site hours of seeding conducted so far this season from manually operated generators with remotely operated generators contributing an additional 527 site hours.

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

Storm Number	Date	No. of Seeding Sites	No. of Manual Hours	No. of Remote Hours
16	January 4	12	69	27
17	January 11	9	99	0
18	January 17	4	12.75	4.75
January Total	---	---	180.75	31.75
Season to Date	---	---	1214.25	527

Table 2 contains current snow water content and water year precipitation information for

stations in the Bear River Basin as of February 3, 2025. The Bear River Basin, as a whole, has about 94% of the median snow water content, and 91% 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 February 1, 2025.

Table 2
Snow Water Content and Water Year Precipitation as of February 3, 2025

Measurement Site	Elevation (ft)	Snow Water Equivalent		Water Year Precipitation	
		Amount (in)	% of Median	Amount (in)	% of Median
Trial Lake	9992	11.6	91	13.0	93
Hayden Fork	9212	7.4	86	12.7	100
Lily Lake	9156	6.8	91	9.4	96
Monte Cristo	8960	12.6	85	13.3	81
Tony Grove Lake	8474	19.7	93	18.9	88
Franklin Basin	8170	13.9	89	16.6	87
Bug Lake	7950	9.7	92	10.4	89
Temple Fork	7406	8.7	84	8.8	74
Little Bear	6544	6.6	82	10.1	71
Bear River Basin	---	---	94	---	91

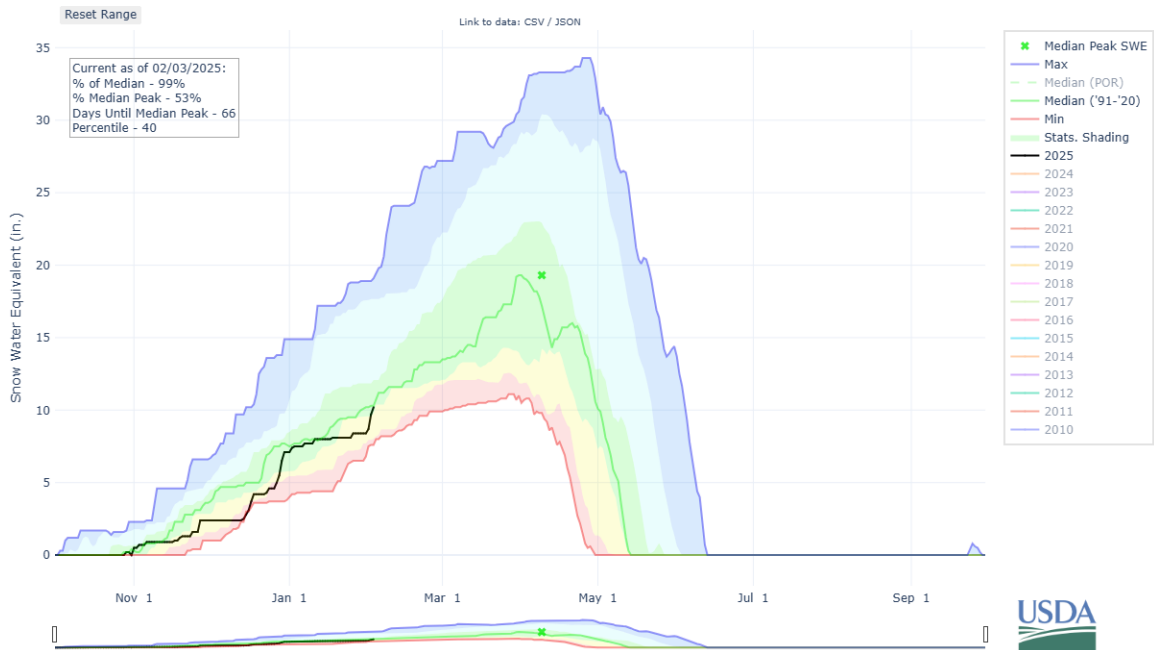


Figure 2. Time series of the Garden City Summit SNOTEL water year precipitation to date (black line) in comparison to climatological maxima (purple), minima (red) and median values (green line). Data are current as of February 3, 2025.

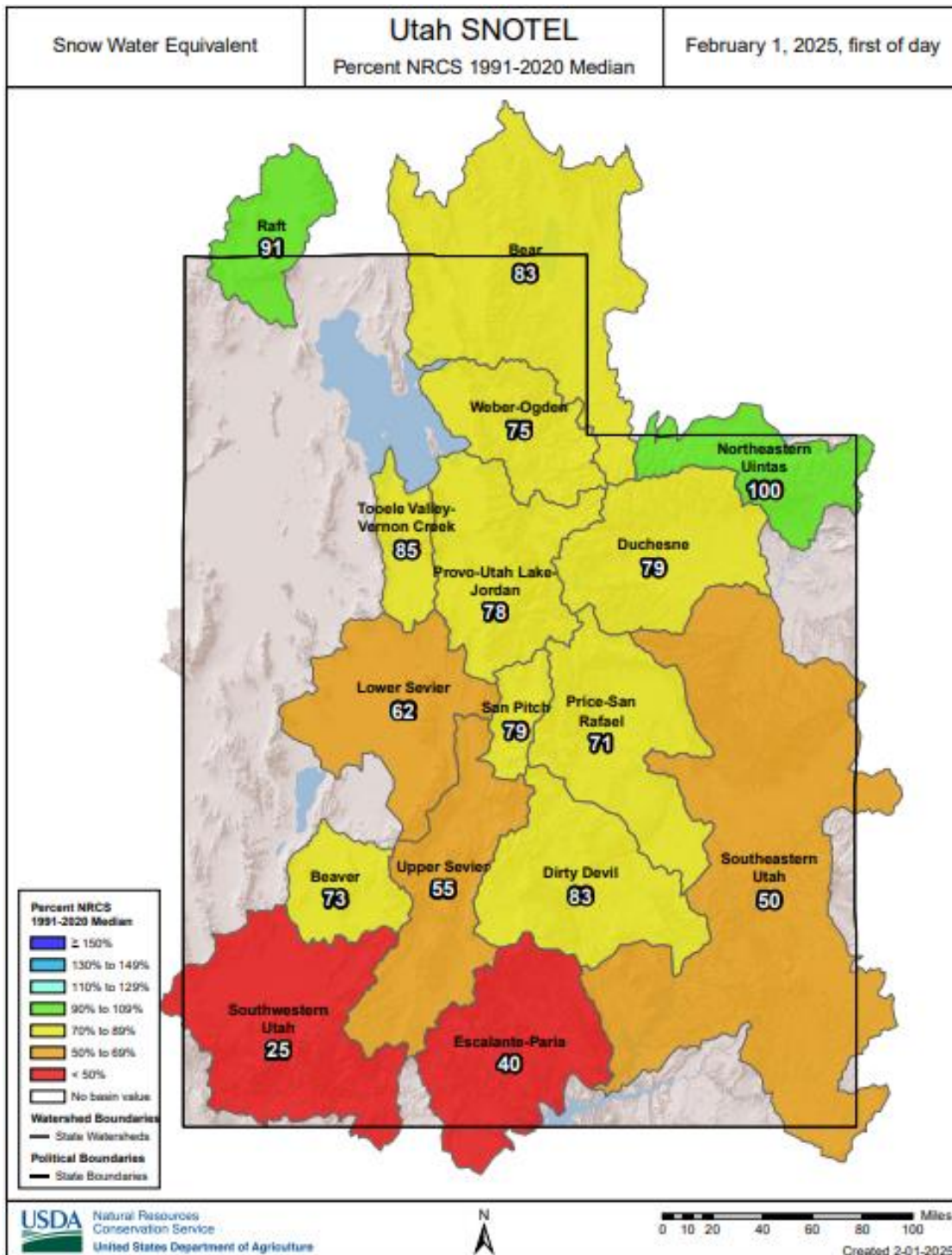


Figure 3. Snow water equivalent (as a percentage of median values) across Utah basins as of February 3, 2025

The Northern Utah Seeding Program is scheduled to continue through April 30, 2025, as specified in the contract. Please contact us if you have 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