

# What a storm it was – a Boise-Bogus Storm !

## Summary of the Boise-Bogus early April 2024 Storm



US National Weather Service Boise Idaho

6d · 🌐

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The storm over the past few days brought heavy rain, snow, cold temperatures, and thunderstorms to Boise. It also broke several records. Here's a few highlights of how unusual this pattern was!



### Storm for the Record Books in Boise

The storm April 3<sup>rd</sup>-5<sup>th</sup> was extremely unusual for Boise and broke several records or was otherwise notable:

#### Precipitation:

- 2.26" total.
- 1.09" on the 4<sup>th</sup>, 1.05" on the 5<sup>th</sup> broke daily records.
- Only second time Boise has ever had 1 inch or more of rainfall on consecutive days.
- Wettest start to year on record through April 5<sup>th</sup> with 8.76" total.

#### Snow:

- 2.1 inches on April 5<sup>th</sup> broke daily record.
- Last April day with >2" snow was in 1969.
- Snow broke tree branches in parts of Boise.

#### Temperatures:

- High of 39 degrees on April 5<sup>th</sup> was the coldest April high since 1936.
- High was 70 degrees on April 3<sup>rd</sup>.

#### Thunderstorms:

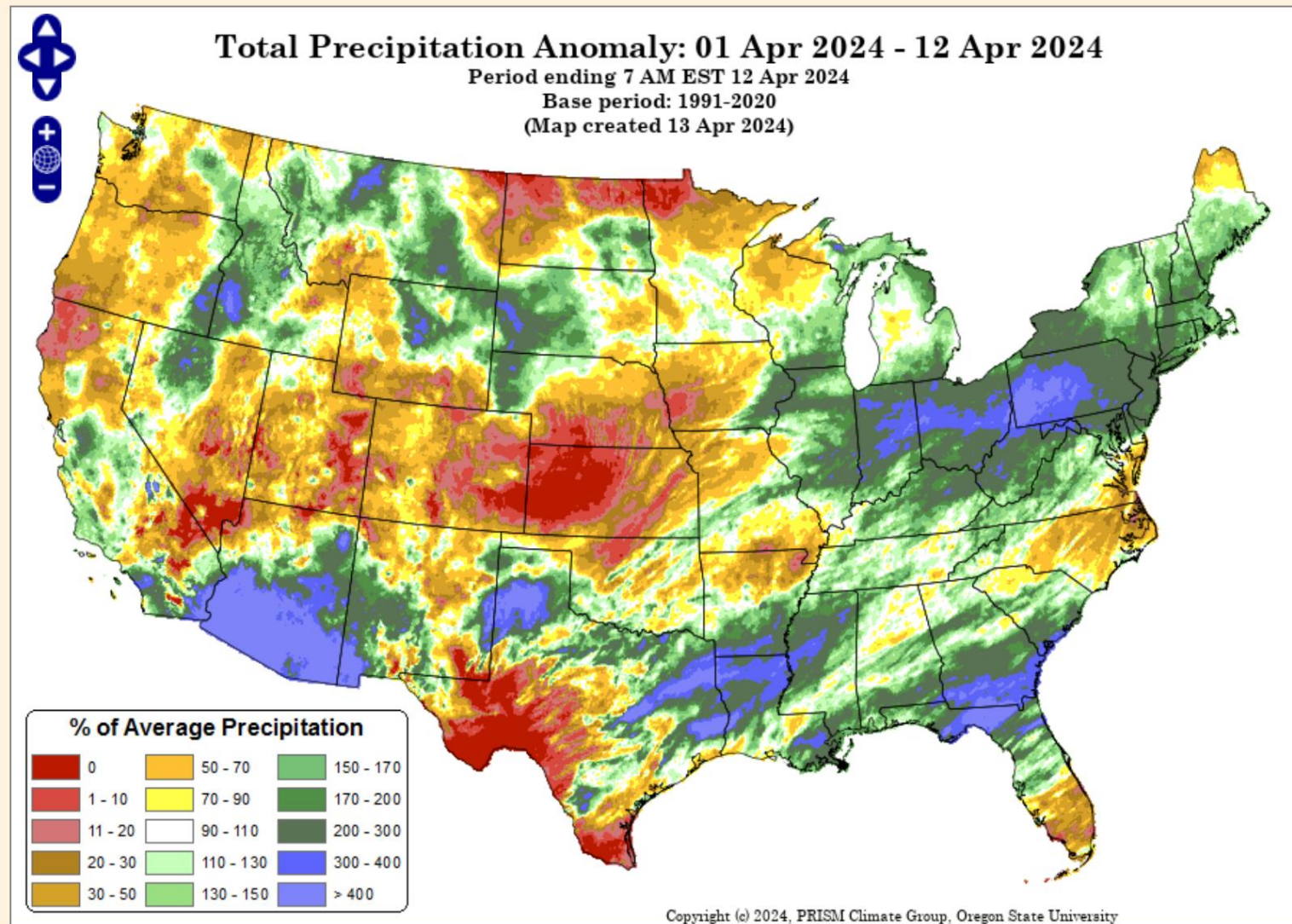
- Thunderstorms were observed on April 3<sup>rd</sup> and 4<sup>th</sup>.
- Storms on April 3<sup>rd</sup> brought dime to quarter size hail.



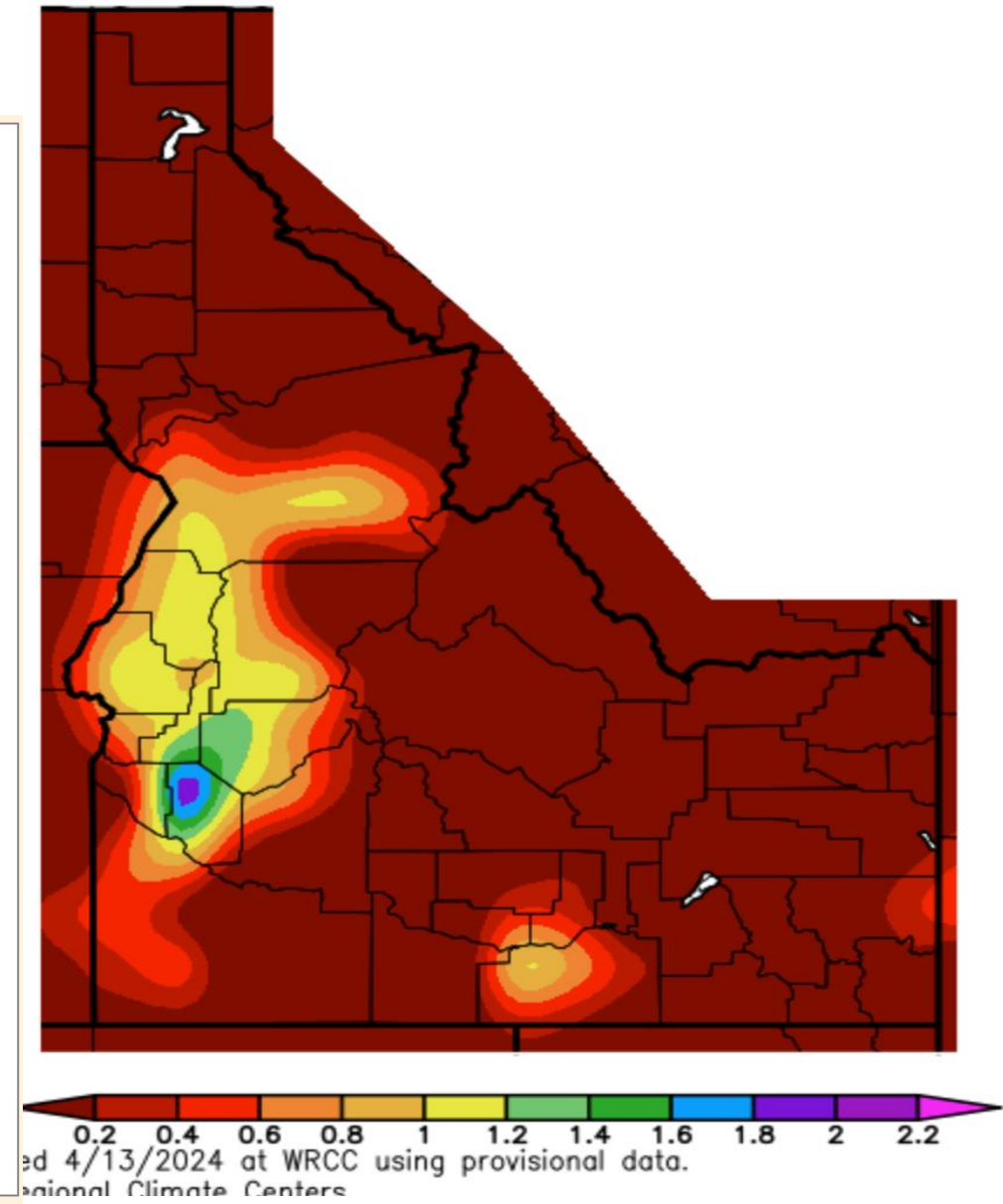


- Back-to-back days with 1 inch of precipitation while other areas didn't receive nearly as much.
- PRISM summary below uses all available data, while Days > 1" is probably just based on valley NWS data.

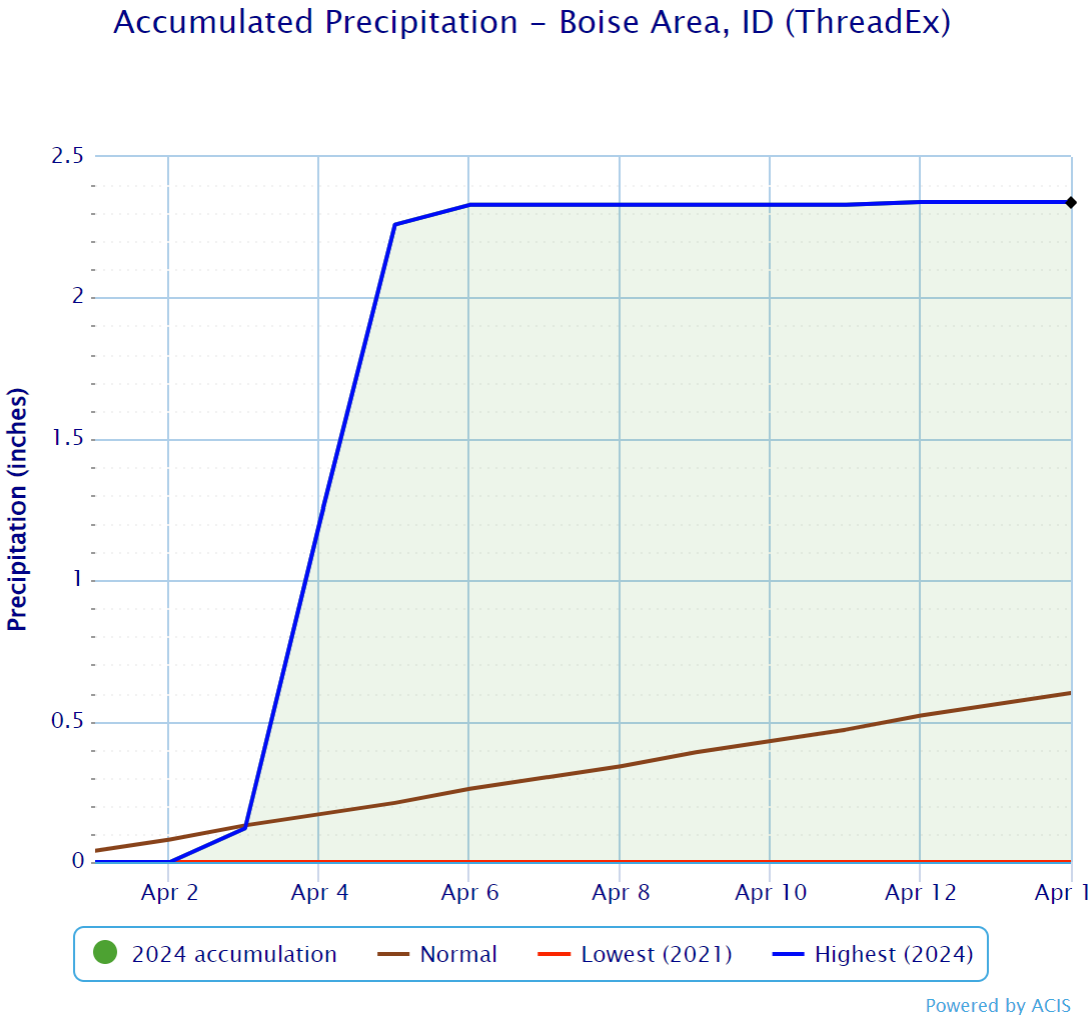
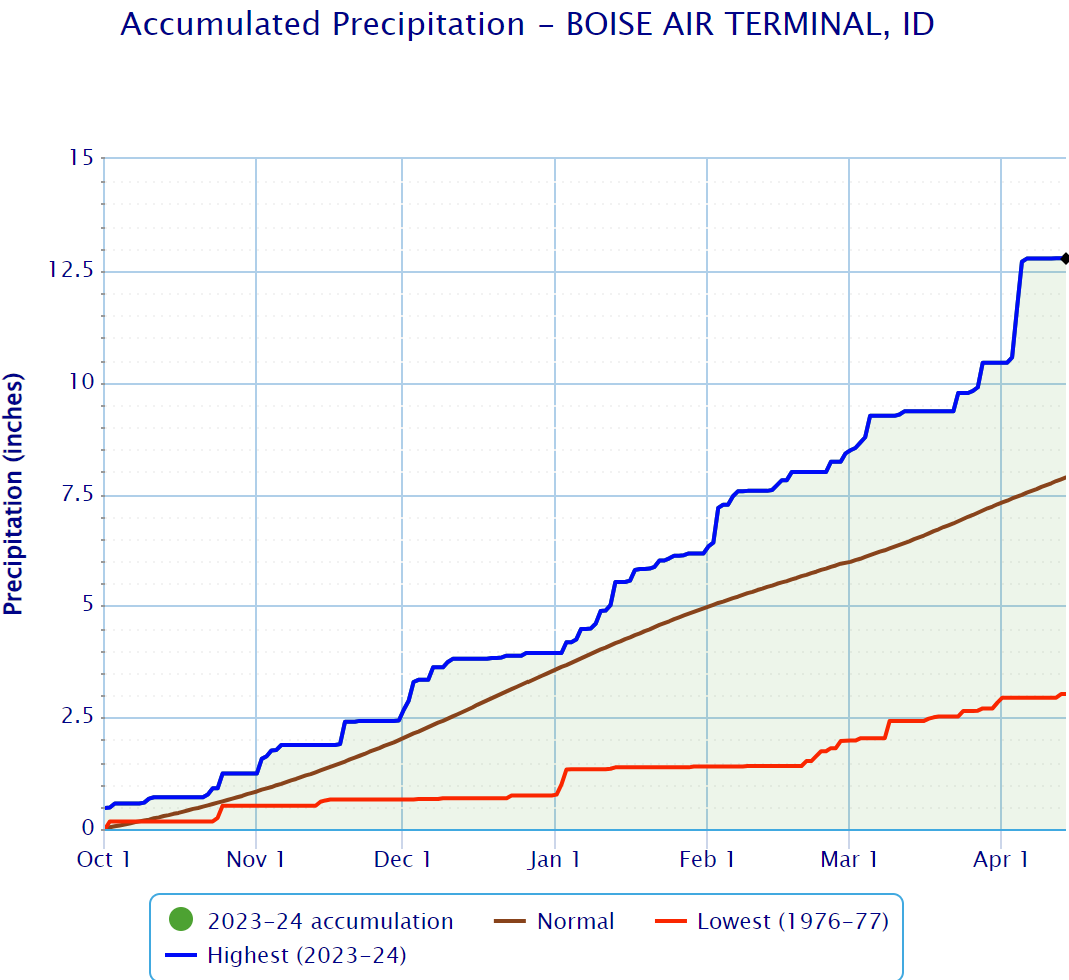
Maybe some day soon, we'll be able to analysis all data together with the same tools...



Precipitation # Days > 1.00"  
 3/30/2024 - 4/12/2024



While the valley received moisture for only a few days, the storm remained over Bogus bring more snow and thick clouds that made skiing fun but challenging to see.



Boise Airport Precipitation  
water year to date and April

**Bogus Basin (978)**  
**Idaho SNOTEL Site - 6340 ft**  
**Reporting Frequency: Daily; Date Range: 2024-04-01 to 2024-04-12**

(As of: Fri Apr 12 15:02:22 GMT-08:00 2024)  
\*\*Provisional data, subject to revision\*\*

Date ↕	Snow Water Equivalent (in) Start of Day Values ↕	Snow Depth (in) Start of Day Values ↕	Precipitation Accumulation (in) Start of Day Values ↕	Air Temperature Observed (degF) Start of Day Values ↕	Air Temperature Maximum (degF) ↕	Air Temperature Minimum (degF) ↕	Air Temperature Average (degF) ↕
2024-04-01	27.9	71	25.8	33.3	45.9	27.9	38.3
2024-04-02	27.8	70	25.8	39.7	56.5	36.5	46.0
2024-04-03	27.7	68	25.8	45.0	53.1	33.8	43.5
2024-04-04	28.5	66	26.6	34.2	42.4	29.7	34.3
2024-04-05	29.3	75	27.9	29.7	35.1	25.7	29.1
2024-04-06	30.3	81	28.8	25.9	29.1	23.2	26.1
2024-04-07	31.0	84	29.5	26.4	37.4	26.6	30.4
2024-04-08	31.2	81	29.7	30.0	40.6	21.2	32.5

**Columns 1                      2                      3**

**Bogus Basin daily amounts and event totals for the April 3-8.**

- 1 Snow Water increase from 27.7 to 31.2”    + 3.5”**
- 2 Snow Depth increase from 66 to 84”        + 18”**
- 3 Precipitation increase from 25.8 to 29.7”   + 3.9”**

Below freezing temps on Apr 1 of 27.9 gave way to a high of 56.6 on Apr 2 and remained above freezing until Apr 4. Then temps returned to below freezing as the storm remained.



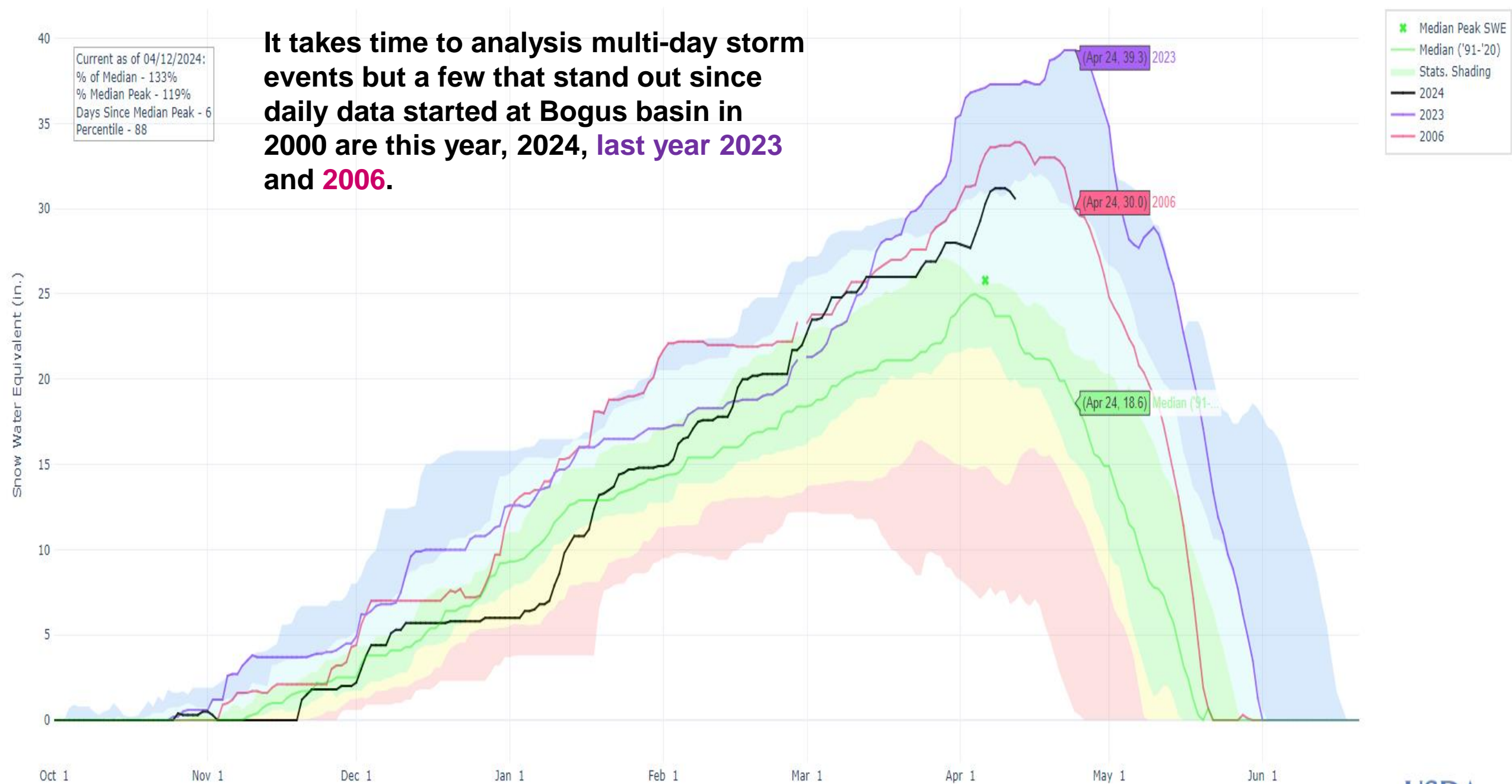
Idaho SNOTEL Precipitation Summary Update Report							
Based on Mountain Data from NRCS SNOTEL Sites							
**Provisional data, subject to revision**							
Data based on the first reading of the day (typically 00:00) for Tuesday, April 09, 2024							
Basin Site Name	Elev (ft)	Month to Date Precipitation (in)	Median Monthly Total (in)	Pct of Monthly Total	Water Year to Date Precipitation (in)	Median Annual Total (in)	Pct of Annual Total
<b>PAYETTE BASIN</b>							
Banner Summit	7040	2.3	3.8	61	28.0	41.8	67
Bear Basin	5350	2.0	3.7	54	23.1	35.7	65
Big Creek Summit	6560	2.4	4.2	57	29.1	45.8	64
Bogus Basin	6340	3.9	2.5 <sub>(21)</sub>	156	29.7	29.6 <sub>(21)</sub>	100
Brundage Reservoir	6250	2.2	4.6	48	31.1	52.0	60
Cozy Cove	5400	2.2	2.6	85	21.5	31.8	68
Deadwood Summit	6860	3.2	4.4	73	36.3	54.6	66
Jackson Peak	7070	2.8	3.8	74	32.2	44.6	72
Long Valley	4890	1.8	2.2 <sub>(19)</sub>	82	16.6	24.0 <sub>(19)</sub>	69
Secesh Summit	6540	2.5	3.5	71	31.4	40.3	78
Puhi Flat	6240	2.3	4.2	55	29.9	43.7	68
Van Wyck	4920	1.7	1.7 <sub>(19)</sub>	100	16.7	25.3 <sub>(19)</sub>	66
<b>Basin Index (%)</b>				<b>71</b>			<b>69</b>
<b>BOISE BASIN</b>							
Atlanta Summit	7580	2.1	3.6	58	29.0	43.1	67
Bogus Basin	6340	3.9	2.5 <sub>(21)</sub>	156	29.7	29.6 <sub>(21)</sub>	100
Camas Creek Divide	5710	0.6	1.6 <sub>(28)</sub>	38	19.0	23.0 <sub>(28)</sub>	83
Couch Summit	6800	1.3	N/A	*	18.4	N/A	*
Dollarhide Summit	8420	1.6	2.8	57	19.2	33.0	58
Graham Guard Sta.	5690	1.0	2.7	37	20.9	29.6	71
Jackson Peak	7070	2.8	3.8	74	32.2	44.6	72
Mores Creek Summit	6100	2.7	3.6	75	33.4	44.4	75
Prairie	4800	0.8	2.0	40	17.9	21.2	84
Trinity Mtn.	7770	1.2	3.6	33	33.2	46.1	72
Vienna Mine	8960	1.4	3.2	44	29.0	42.0	69
<b>Basin Index (%)</b>				<b>62</b>			<b>74</b>
<b>BIG WOOD BASIN</b>							
Camas Creek Divide	5710	0.6	1.6 <sub>(28)</sub>	38	19.0	23.0 <sub>(28)</sub>	83
Chocolate Gulch	6310	1.2	1.4 <sub>(27)</sub>	86	14.0	22.0 <sub>(27)</sub>	64
Couch Summit	6800	1.3	N/A	*	18.4	N/A	*
Dollarhide Summit	8420	1.6	2.8	57	19.2	33.0	58
Galena	7470	1.7	1.8	94	16.6	25.8	64
Galena Summit	8780	2.3	2.6	88	21.5	28.7	75
Hyndman	7620	1.0	2.3	43	15.6	24.9	63
Lost-Wood Divide	7900	1.7	2.2	77	18.1	28.1	64
Soldier R.S.	5740	0.9	1.4	64	15.0	22.5	67
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- With the storm hanging over Bogus Basin, the SNOTEL site received 3.9” during this event. Normal April precipitation is 2.5”, so Bogus received 156% of it’s normal April amount in the first 9 days of the month.
- Overall, the Boise Basin only received 62% of its monthly total.
- Next highest amount in the area was Deadwood Summit that received 3.2” but only 73% of April monthly total.
- Van Wyck received 1.7” which is 100% of its monthly total.

Current as of 04/12/2024:  
% of Median - 133%  
% Median Peak - 119%  
Days Since Median Peak - 6  
Percentile - 88

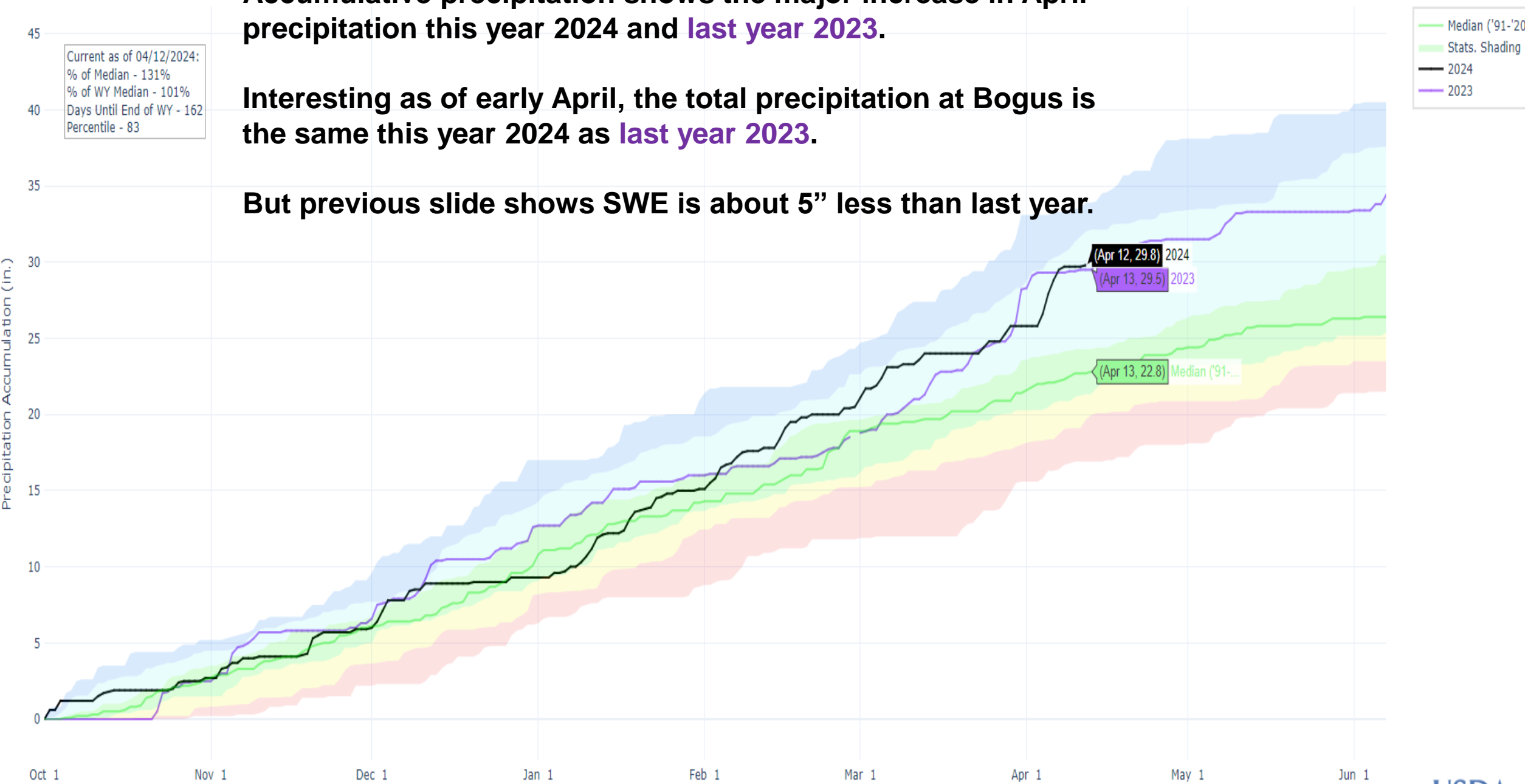
**It takes time to analysis multi-day storm events but a few that stand out since daily data started at Bogus basin in 2000 are this year, 2024, last year 2023 and 2006.**

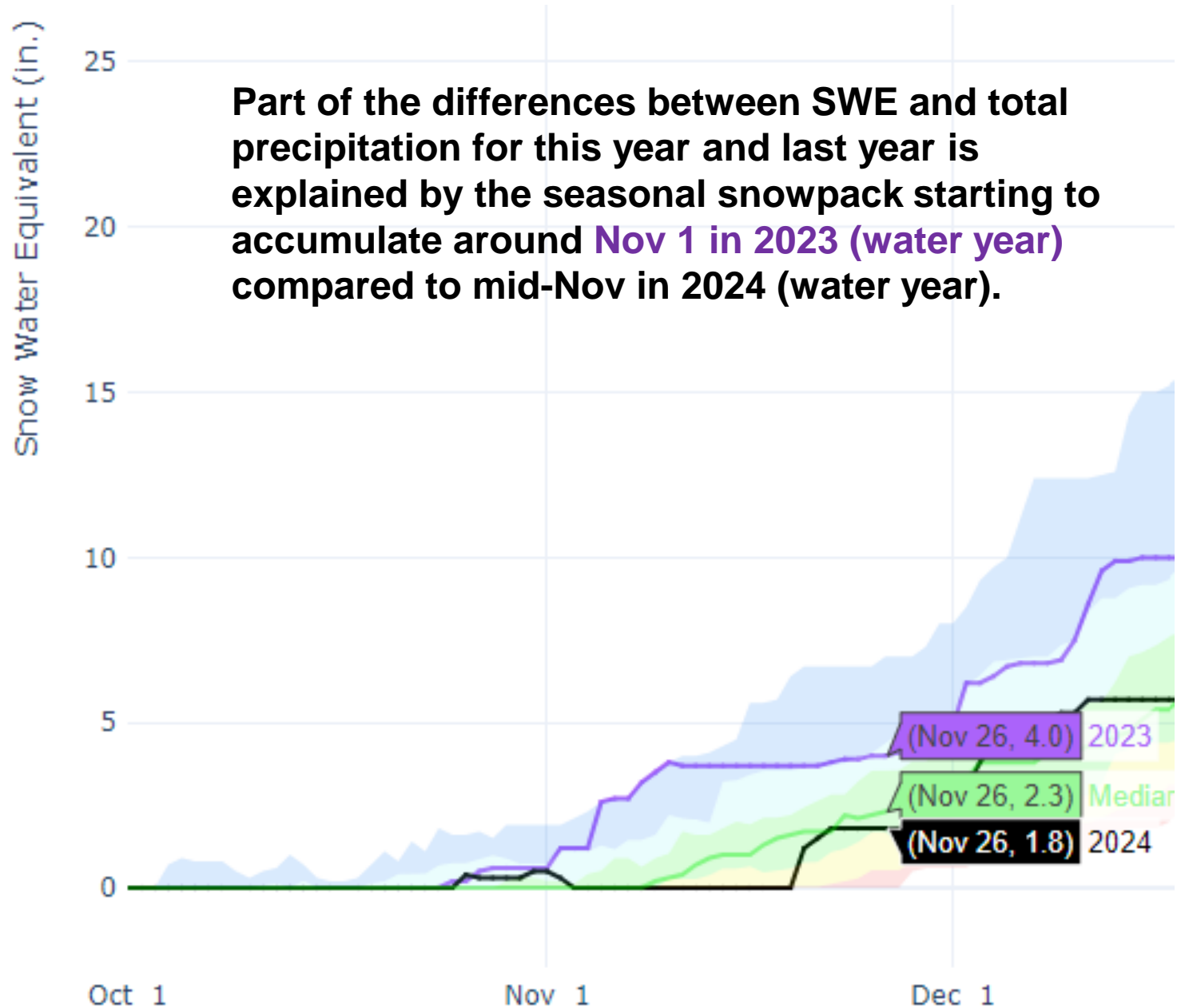


Accumulative precipitation shows the major increase in April precipitation this year 2024 and **last year 2023**.

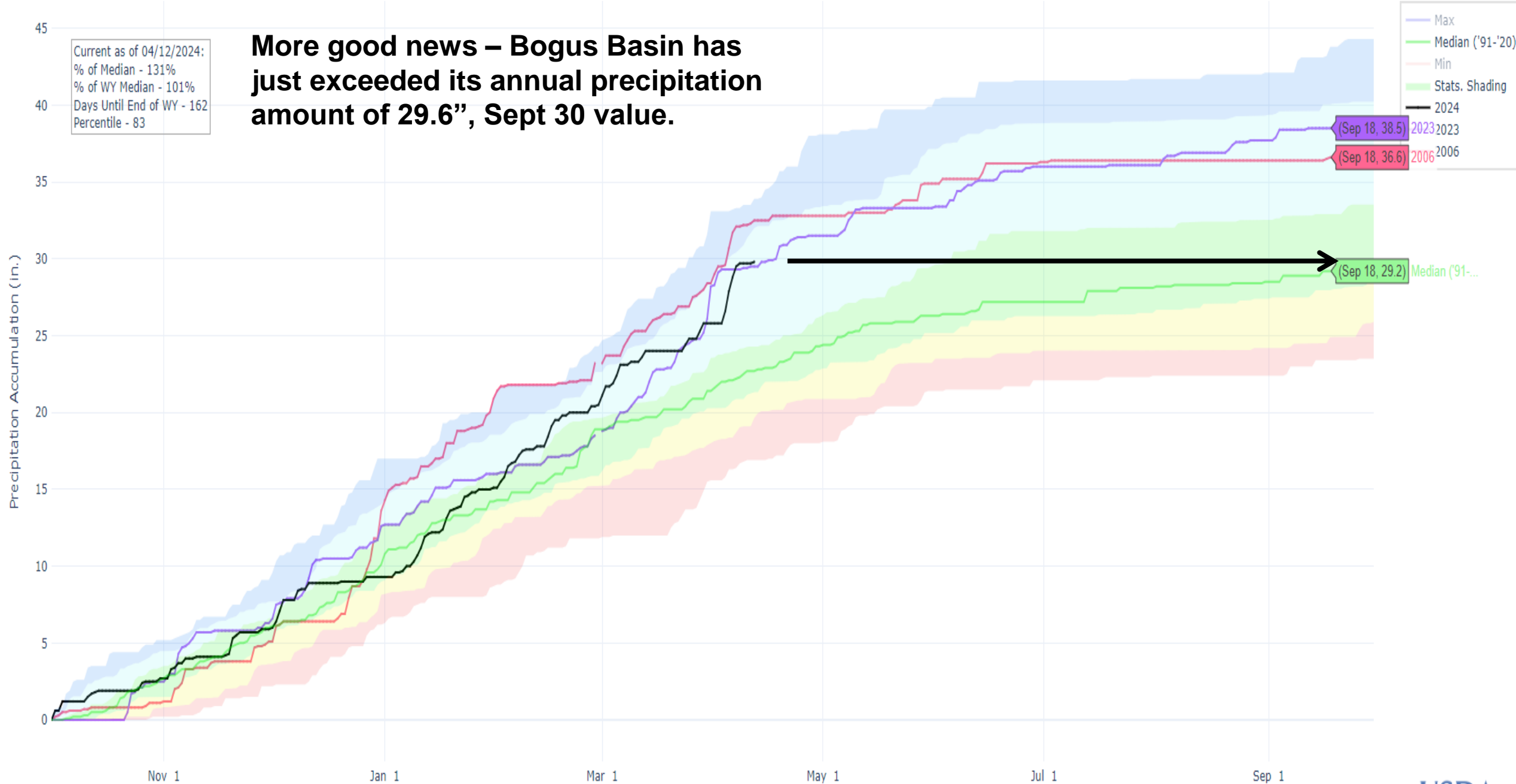
Interesting as of early April, the total precipitation at Bogus is the same this year 2024 as **last year 2023**.

But previous slide shows SWE is about 5" less than last year.









Always fun looking at snow depth over the season how it increase with each storm, then settles natural afterwards and from warmer temps.



Who remembers these stormy events when snow on the ground increased from 18 to 52" Jan 3 to 14 !

And 60 to 87" Feb 26 to Mar 6 !!

Snow Depth (in.)

Current as of 04/12/2024

100

80

60

40

20

0

Oct 1

Nov 1

Dec 1

Jan 1

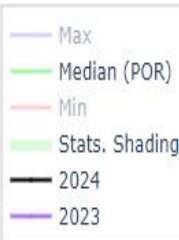
Feb 1

Mar 1

Apr 1

May 1

Jun 1



(Apr 7, 106.0) 2023

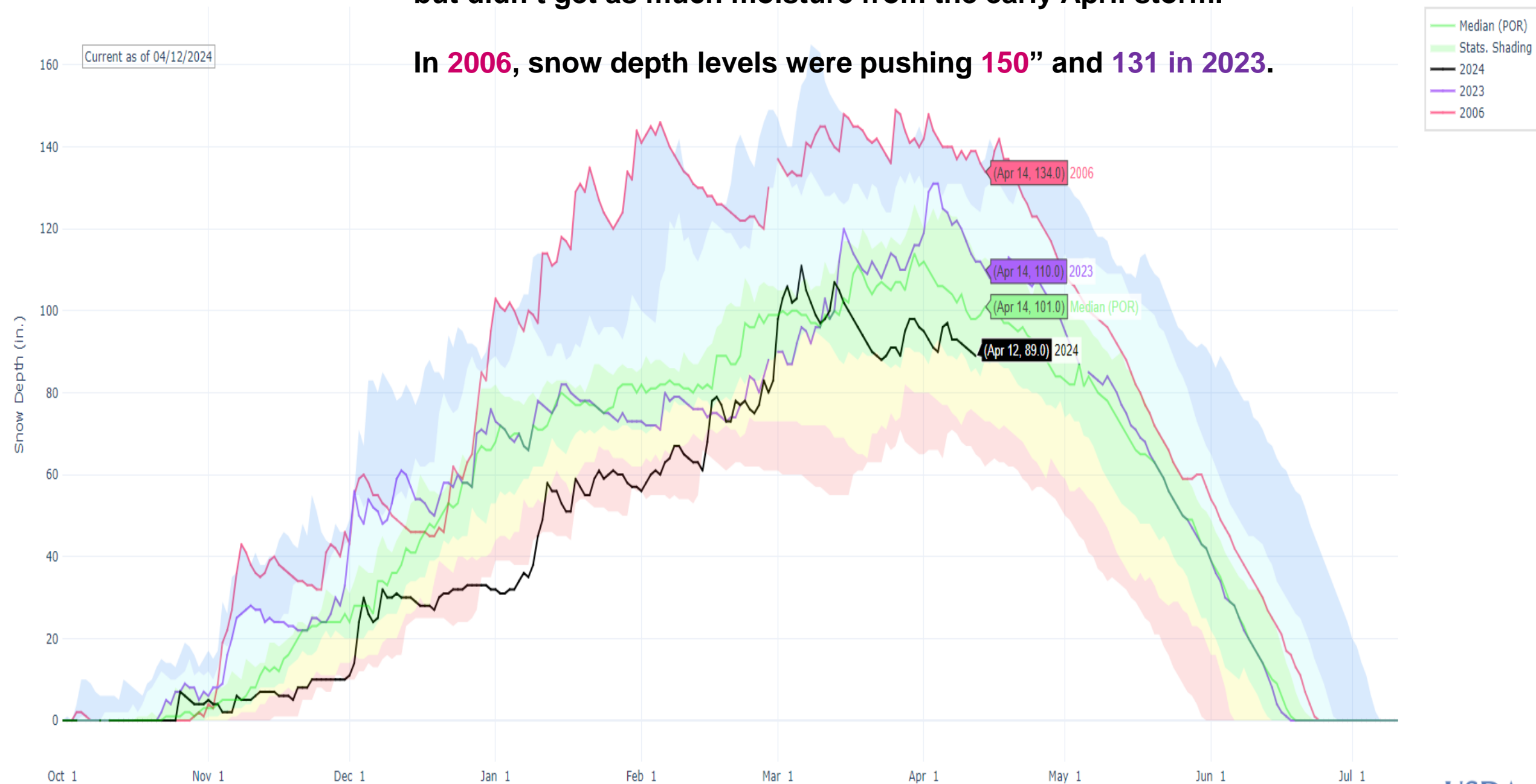
(Apr 7, 84.0) 2024

(Apr 7, 61.5) Median (POR)

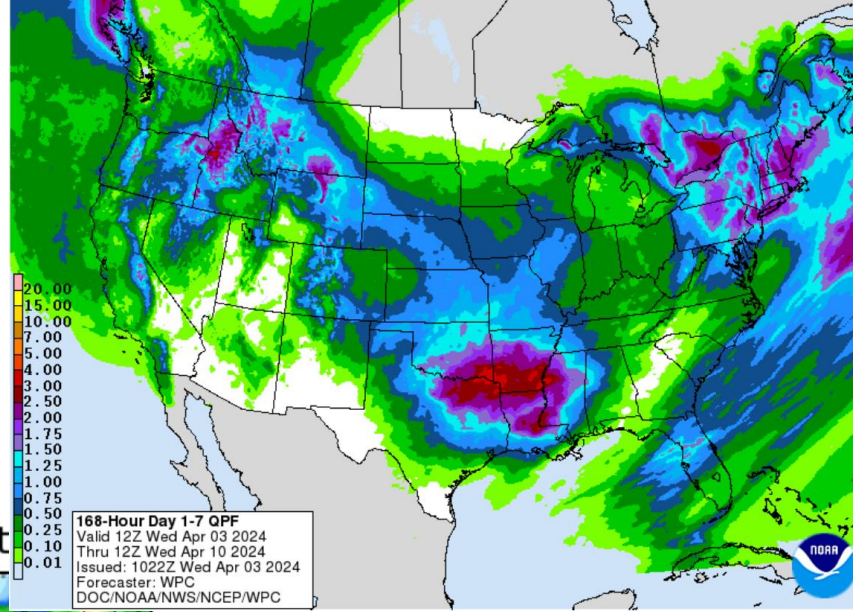


**Deadwood Summit snow depth reached 111" on Mar 6 this year but didn't get as much moisture from the early April storm.**

**In 2006, snow depth levels were pushing 150" and 131 in 2023.**

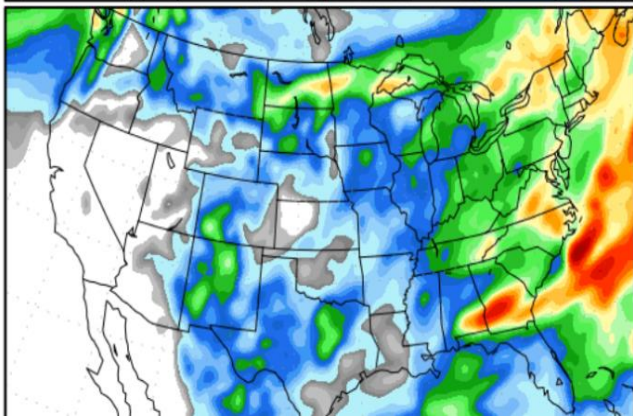
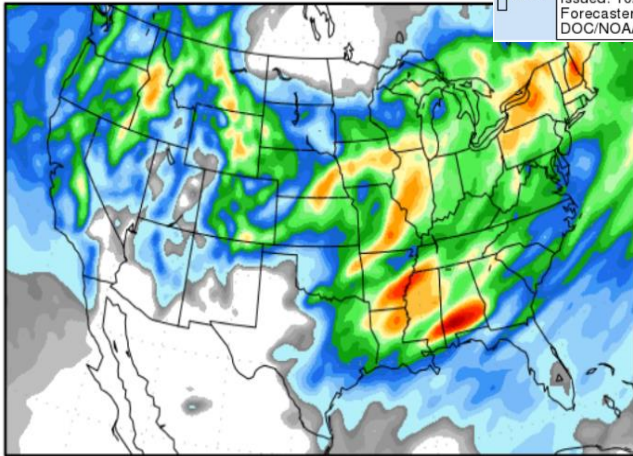
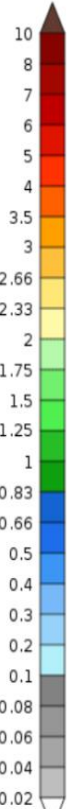







Precipitation Forecast

Precipitation (in)  
during the period:



Forecasts from  
Wednesday April 3  
showed the storm  
over the West Central  
Mountains with 2-3" of  
moisture for next 7  
days and 15-17" at our  
local ski areas.

**Bogus Basin**  
6,604 ft · Idaho · United States


New Snow  
**0"**  
Last 24 Hours

Next 1-5 Days  
16"

Next 6-10 Days  
0"

W T F S S M T W T F

Resort Status: **Open (91%)**  
**Estimated** at Wed Apr 3 6:00am MDT ⓘ

**Brundage**  
6,650 ft · Idaho · United States


New Snow  
**0"**  
Last 24 Hours ✓

Next 1-5 Days  
17"

Next 6-10 Days  
0"

W T F S S M T W T F

Resort Status: **Open (100%)**  
Reported at Wed Apr 3 5:01am MDT ⓘ

**Tamarack**  
6,709 ft · Idaho · United States

New Snow  
**0"**

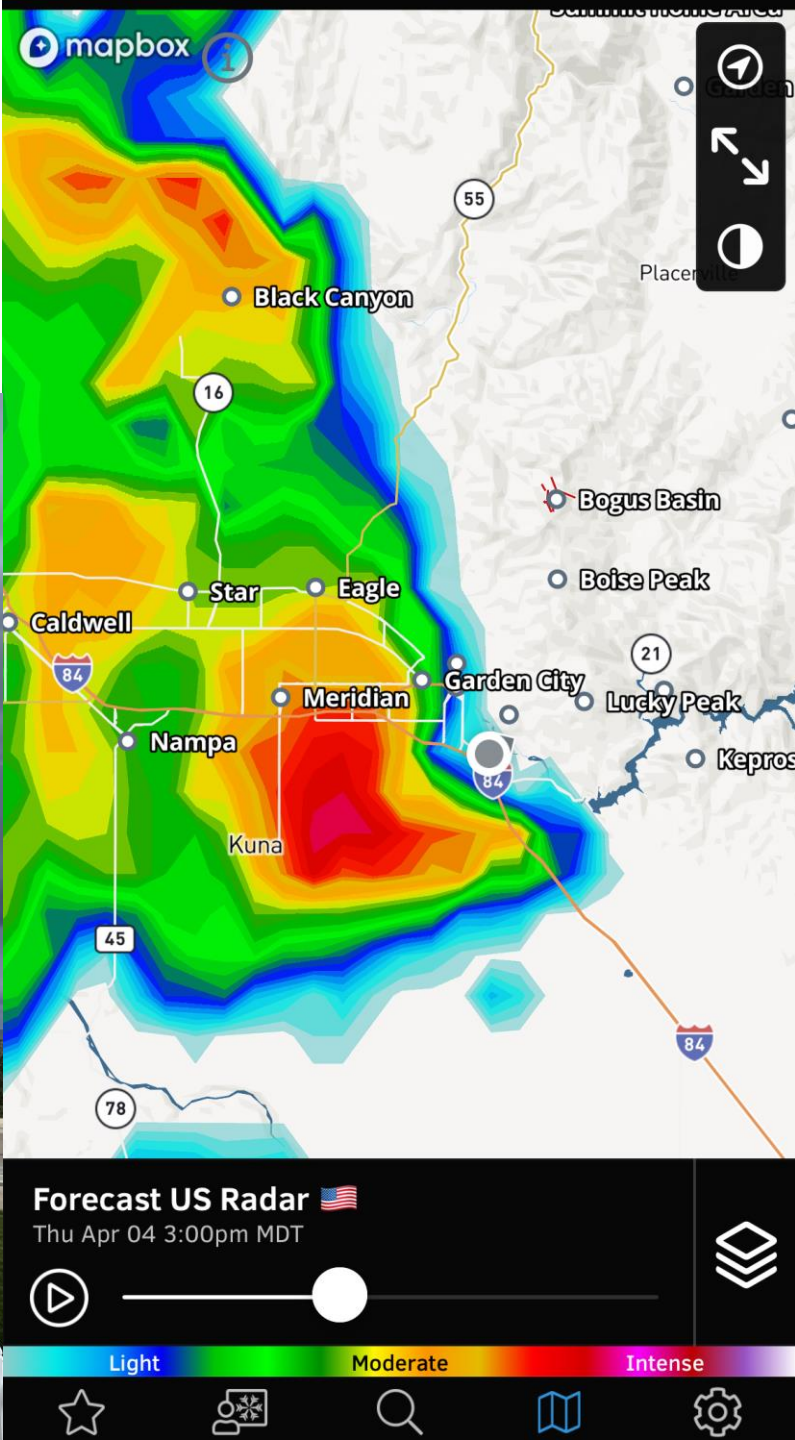
Next 1-5 Days  
15"

Next 6-10 Days  
0"

W T F S S M T W T F



The stormy starts:  
April 3 at 5:17pm

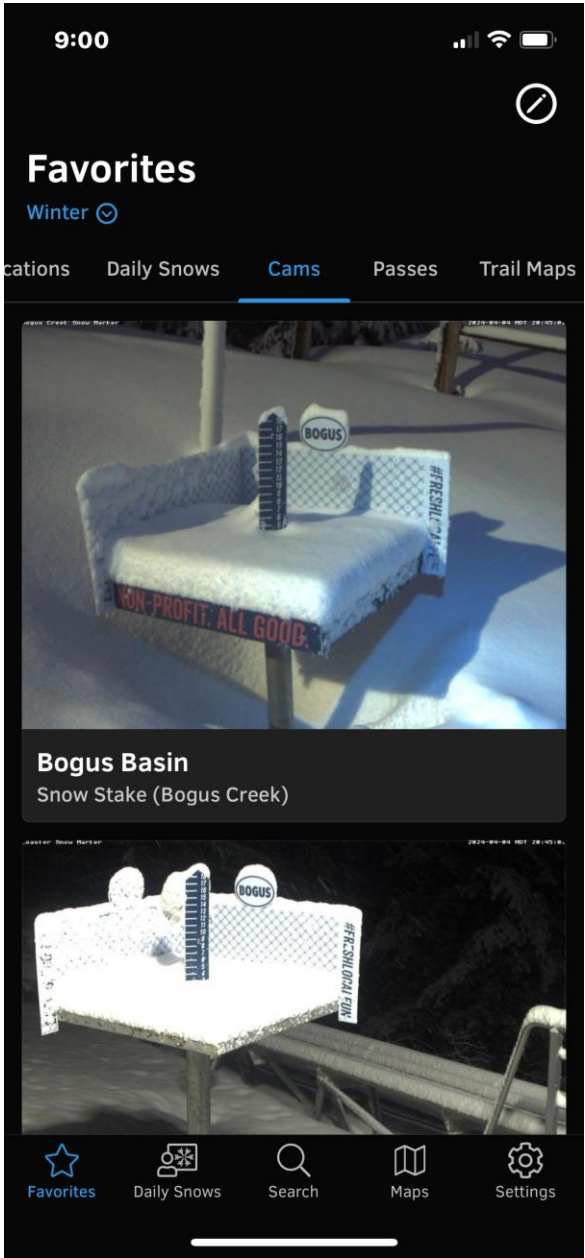


Radar Forecast for 3pm Thursday  
Apr 4, pic taken Apr 3 at 10:18pm

Backyard clouds Apr 3 at 10:42pm



Snow Stakes Apr 4 9:00 pm



Apr 4 10:32pm



Apr 5 1:50 am couldn't sleep...





**Apr 5**  
**Ryan Skiing Chute A at 10:17am**



**Inspiration Sign 12:10pm**



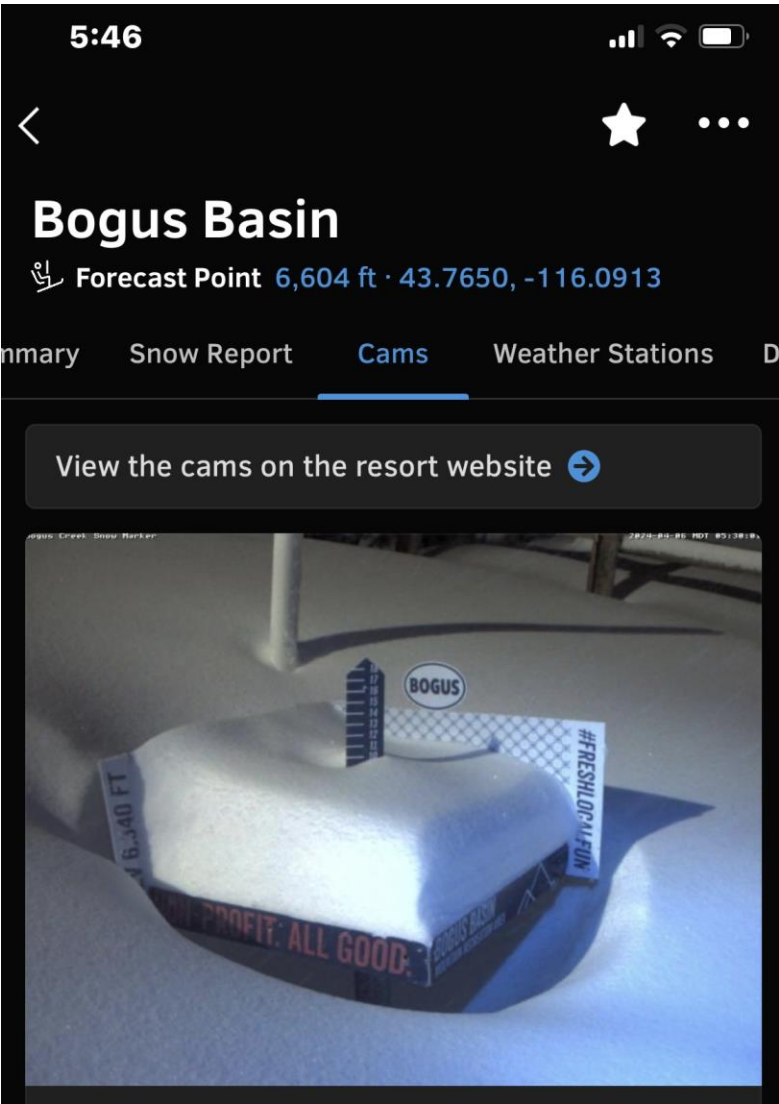
**Riders jumping into  
Inspiration at 12:09 pm**



Snow Stakes Apr 5 11:14pm



Good Moring Bogus Basin !  
Apr 6 5:46am



Snow Ghosts Arrived  
Time to drive up & ride !







**Apr 6 7:10am  
Harrison Boulevard**

**Skiing to Inspiration at  
high noon on Apr 6**



**48 hours later  
Apr 8 watching the Eclipse  
from Inspiration**

