

WINTER 2024-'25

Mark Nelsen



FOX 12
OREGON

FOX 12
PLUS 

WINTER 2024-'25

Mark Nelsen

A MILD (~~LA NIÑA~~) WINTER



Winter 2024-25

- Near normal temps and precipitation
- Just two weeks with typical “La Niña” conditions (early February)
- No major windstorms + no arctic blast this year
- North/central Cascade snowfall near average
- Huge snowpack in southern/southeast Oregon

An example of a harassing viewer voice mail

(Late January)



WAS IT "THE END OF THE WORLD AS WE KNOW IT"?

FORECASTS FROM THURSDAY, FEBRUARY 6TH

ALL THIS DRAMA...FOLLOWED BY A TRACE OF SNOW

8 **WEATHER**
IMPACT
ALERT

7 DAY FORECAST



FIRST ALERT 7 DAY FORECAST

KEY Home Furnishings



KOIN

KOIN 6 WEATHER

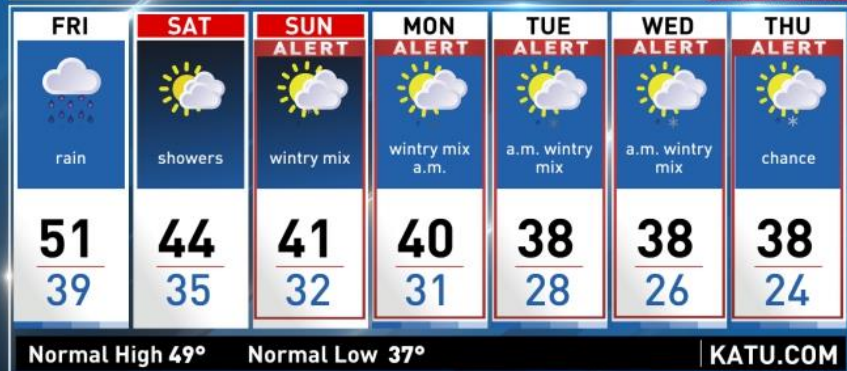
7-DAY FORECAST

CHAMPION



> 7 DAY FORECAST

STORM TRACKER 2
WEATHER ALERT





**OFFICIAL
SNOW TOTAL:**

3.0"

at PQR (NWS Office)

3.5" Downtown (KGW-TV)
(1.7" & 1.8" Feb 13th-14th)

FIRST ALERT PORTLAND SNOWFALL

WINTER 2024-25



3.0
inches

WINTER
SNOWFALL

1 measurable snow event

SNOW

Trace Feb 5th

Trace Feb 10th

1.3" Feb 13th

1.7" Feb 14th

FRZ RAIN/ICE

Trace Feb. 13th

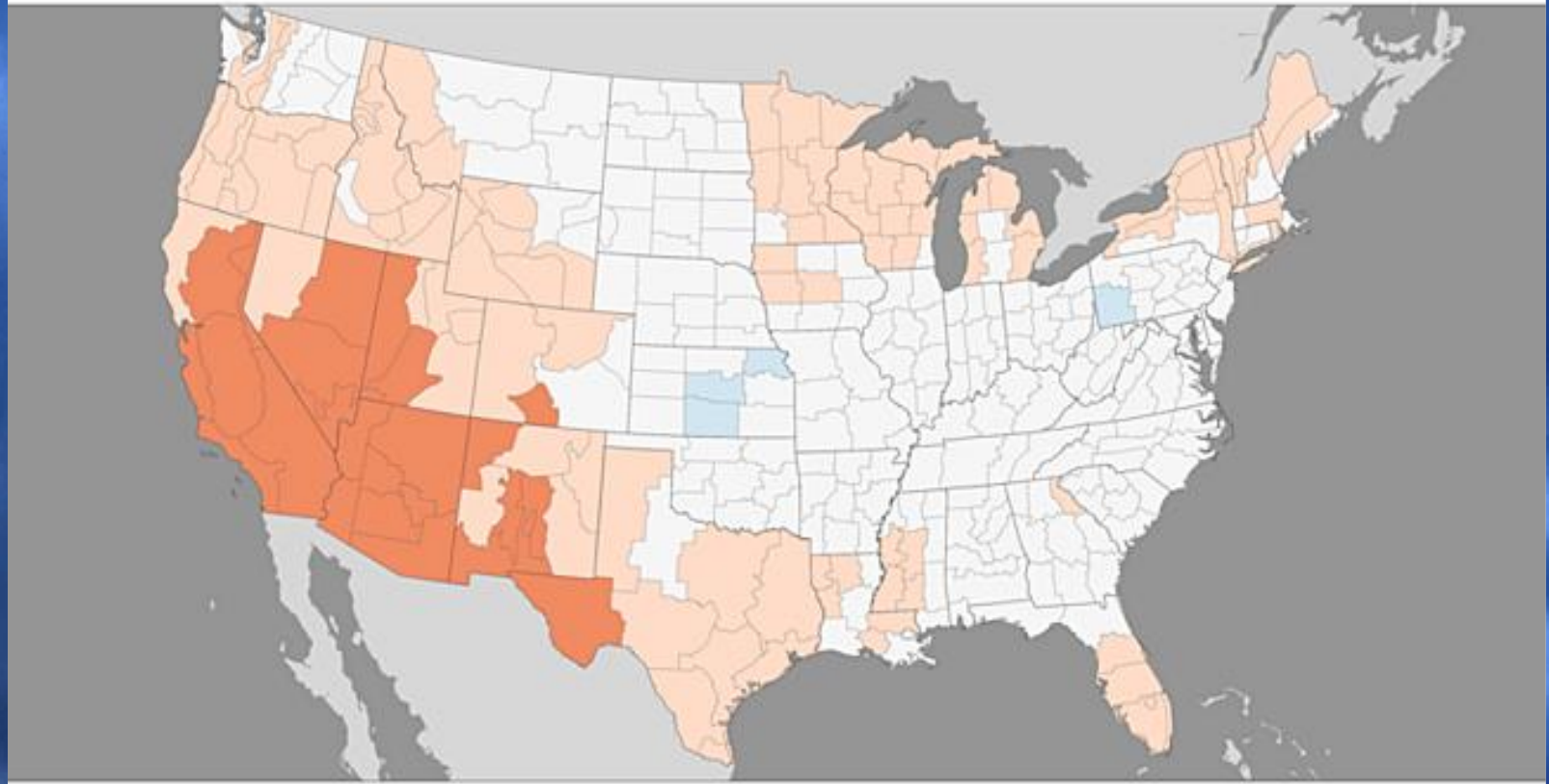
Winter Temperature Anomaly

Divisional Average Temperature Ranks

December 2024-February 2025

Ranking Period: 1895-2025

NOAA's National Centers for Environmental Information



Record
Coldest

Much
Below
Average

Below
Average

Near
Average

Above
Average

Much
Above
Average

Record
Warmest



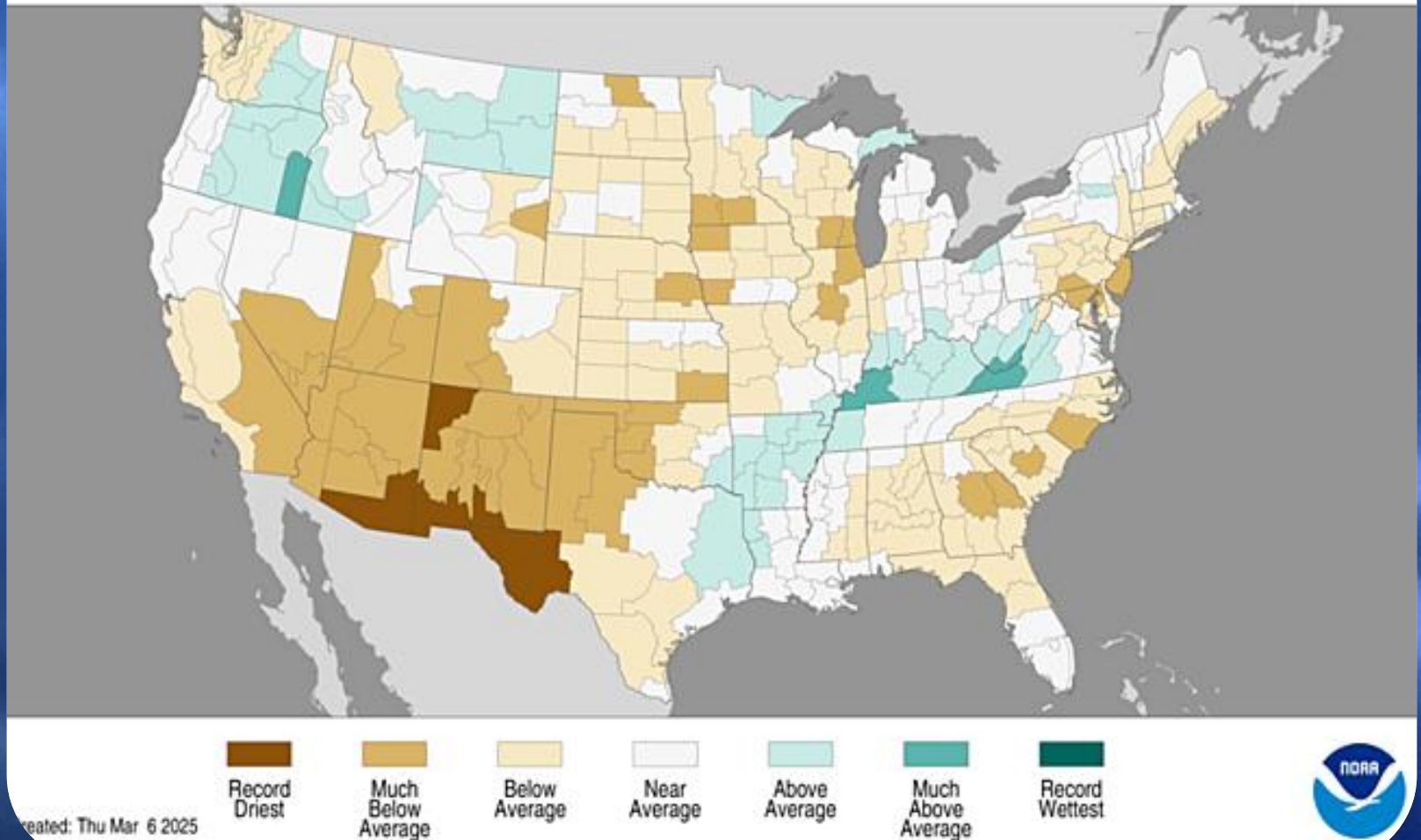
Winter Precip Anomaly

Divisional Precipitation Ranks

December 2024-February 2025

Ranking Period: 1895-2025

NOAA's National Centers for Environmental Information



Created: Thu Mar 6 2025

Source: nClimGrid - Monthly

Attribution: nClimGrid - Monthly

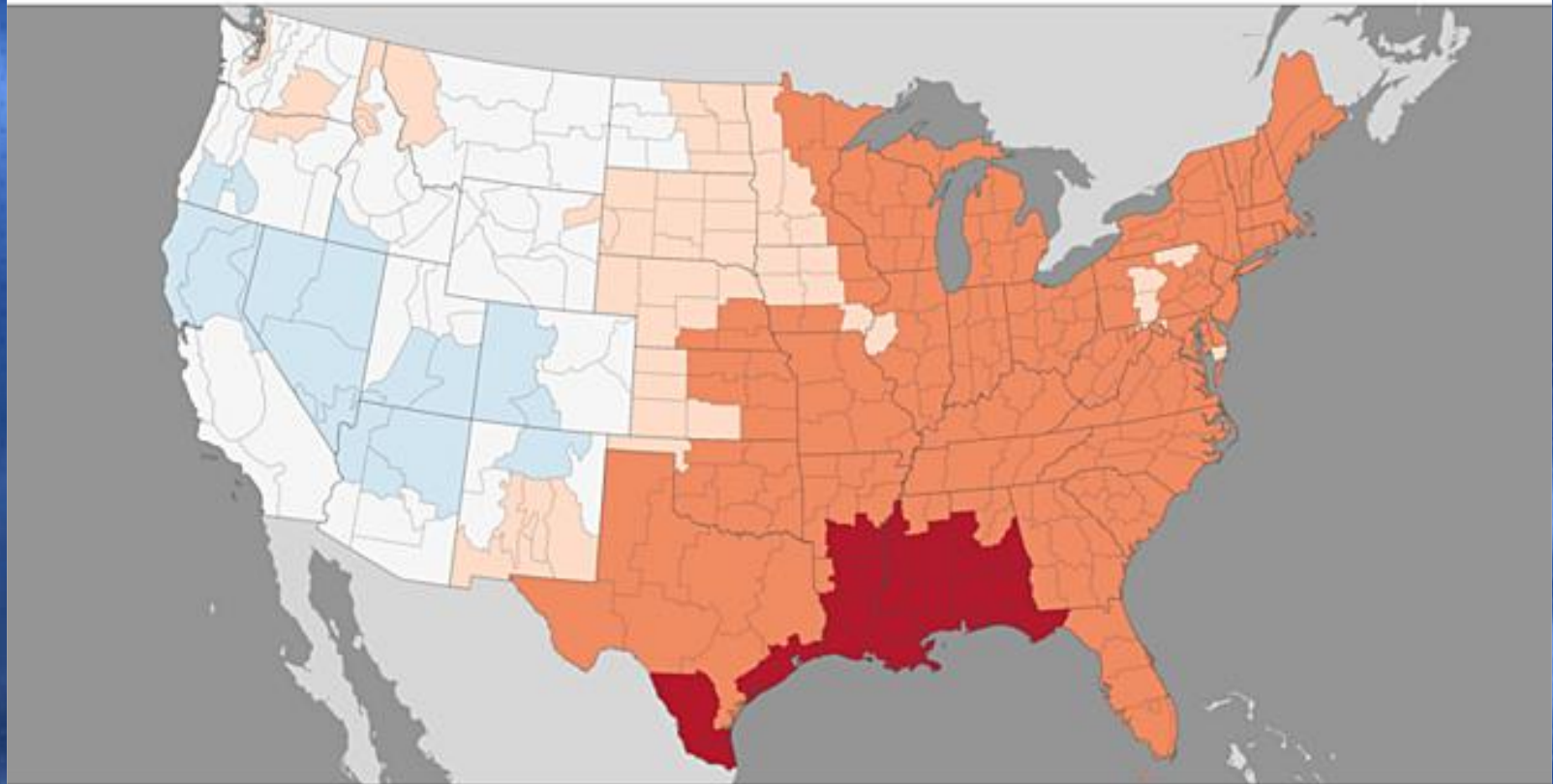
Monthly view

Divisional Average Temperature Ranks

November 2024

Ranking Period: 1895-2024

NOAA's National Centers for Environmental Information



Record Coldest

Much Below Average

Below Average

Near Average

Above Average

Much Above Average

Record Warmest



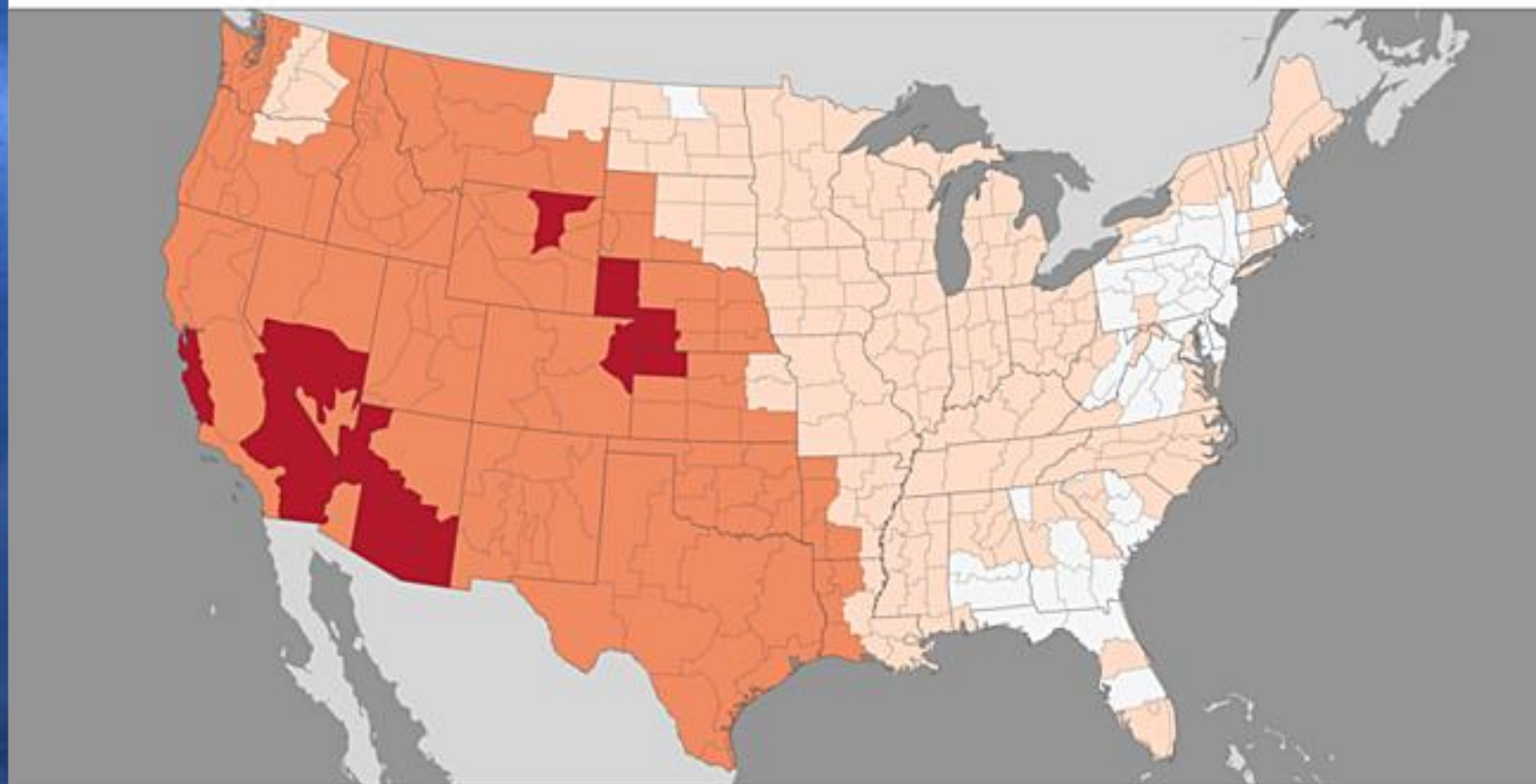
THE USA VIEW

Divisional Average Temperature Ranks

December 2024

Ranking Period: 1895-2024

NOAA's National Centers for Environmental Information



Record
Coldest

Much
Below
Average

Below
Average

Near
Average

Above
Average

Much
Above
Average

Record
Warmest



Created: Tue Jan 7 2025

Source: nClimGrid - Monthly

Version: 4.0.0

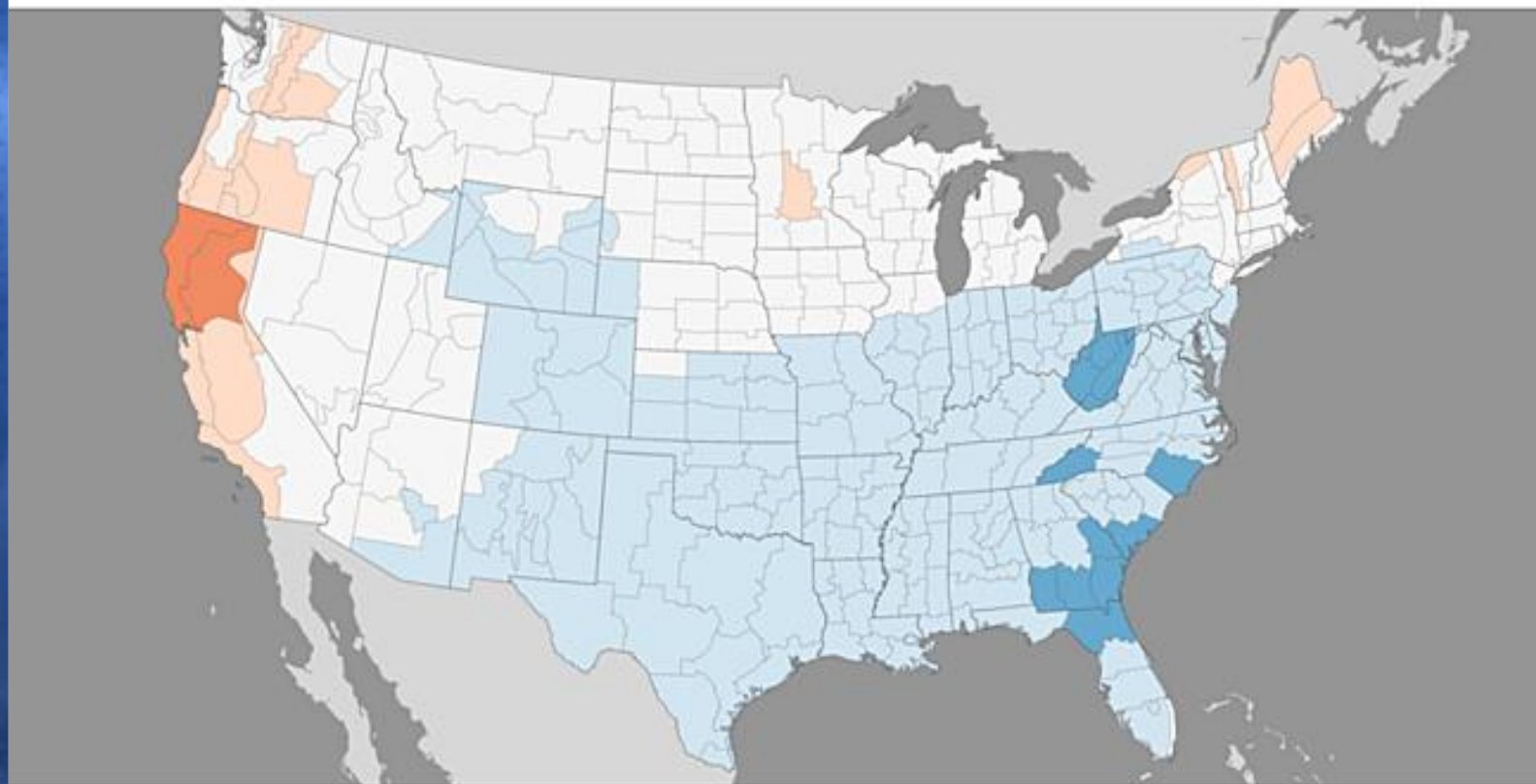
THE USA VIEW

Divisional Average Temperature Ranks

January 2025

Ranking Period: 1895-2025

NOAA's National Centers for Environmental Information



Record Coldest

Much Below Average

Below Average

Near Average

Above Average

Much Above Average

Record Warmest



Created: Thu Feb 6 2025

Source: nClimGrid - Monthly

Version: 4.0.0

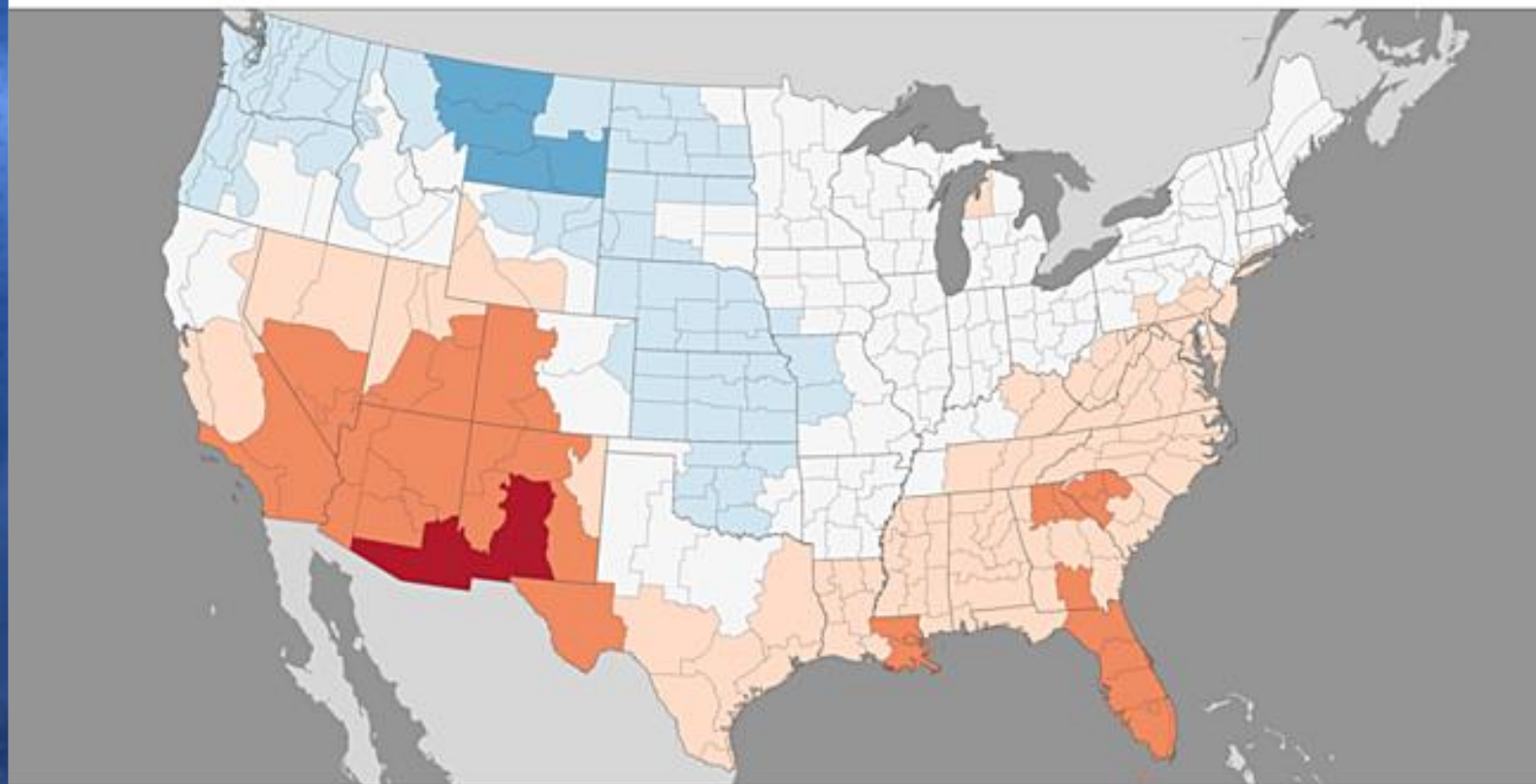
THE USA VIEW

Divisional Average Temperature Ranks

February 2025

Ranking Period: 1895-2025

NOAA's National Centers for Environmental Information



Record Coldest

Much Below Average

Below Average

Near Average

Above Average

Much Above Average

Record Warmest



Created: Thu Mar 6 2025

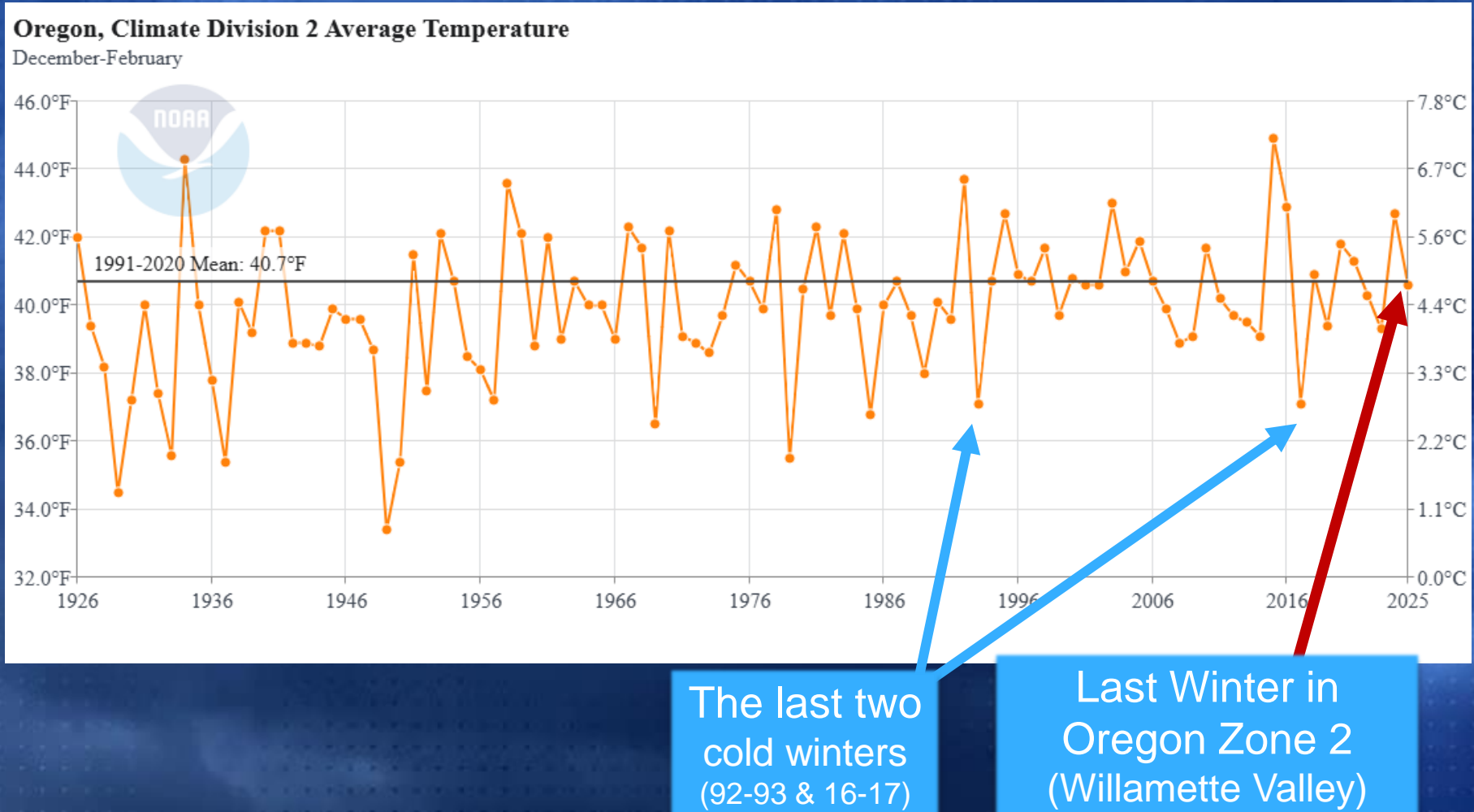
Source: nClimGrid - Monthly

Version: 1.0.0

OR Western Valleys Winter Temperature

(the past 100 years)

Near average. Last “very cold” winter was 2016-17



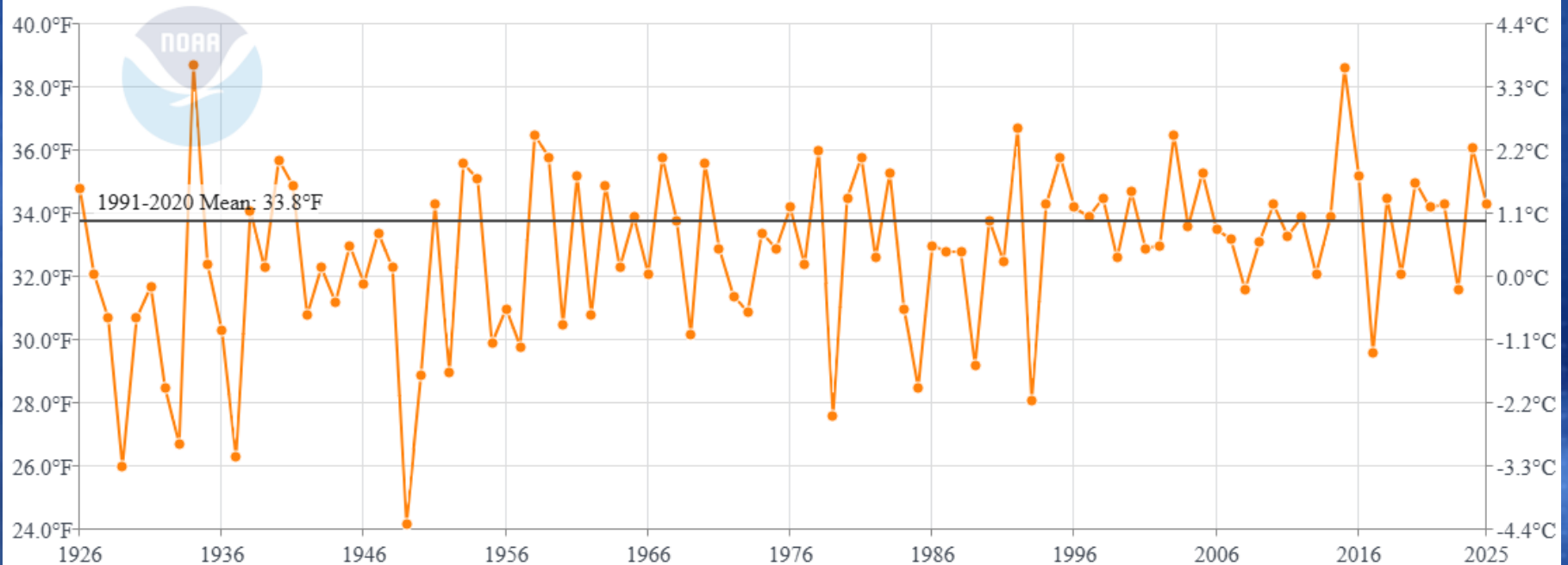
Oregon Winter Temps

(the last 100 years)

Near average

Oregon Average Temperature

December-February



NOVEMBER 2024

Temps near normal...no extremes of warm/cold

FIRST ALERT NOVEMBER 2024 IN PORTLAND

SUN	MON	TUE	WED	THU	FRI	SAT
					1 58°	2 57°
3 59°	4 58°	5 54°	6 58°	7 63°	8 61°	9 56°
10 58°	11 54°	12 57°	13 56°	14 54°	15 51°	16 50°
17 54°	18 47°	19 48°	20 55°	21 52°	22 58°	23 51°
24 48°	25 52°	26 48°	27 49°	28 44°	29 43°	30 48°

AVERAGE HIGH: 58° 1st 50° 30th

+1.4°
FROM NORMAL

**SLIGHTLY
ABOVE
NORMAL**

FIRST ALERT NOVEMBER RAIN IN PORTLAND

IN INCHES

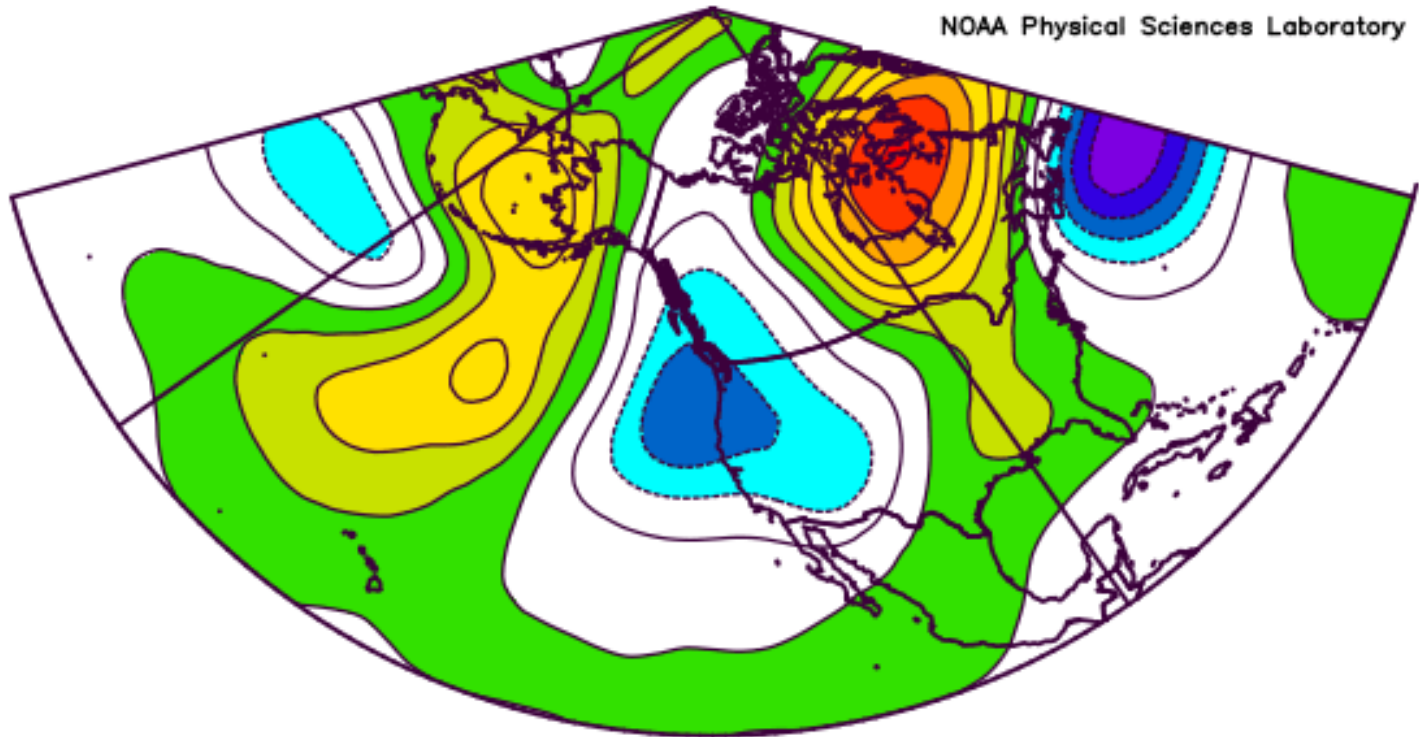
TYPICALLY OUR SECOND WETTEST MONTH
AVERAGE NOVEMBER = 5.45"



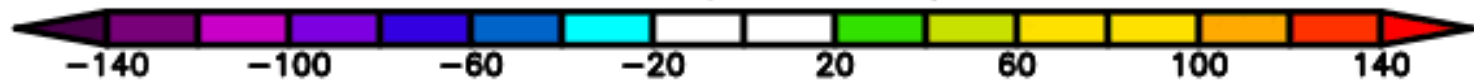
NOVEMBER 500MB

Troughing along West Coast

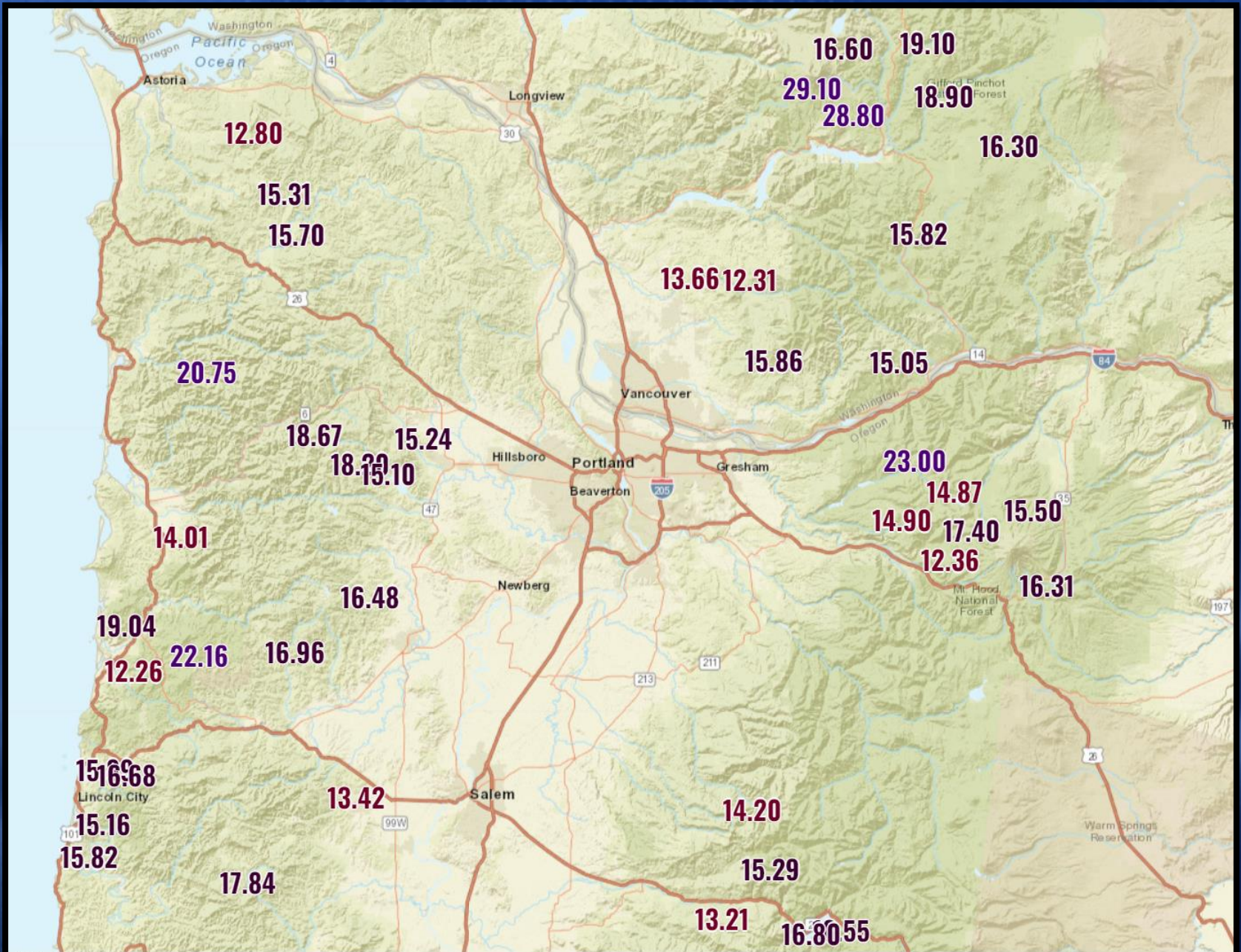
NOAA Physical Sciences Laboratory



500mb Geopotential Height (m) Composite Anomaly (1991-2020 Climatology)
11/1/24 to 11/30/24
NCEP/NCAR Reanalysis



LOCATIONS WITH 12"+ PRECIPITATION IN NOV. 2024



WATERSPOUT MOVES ONSHORE – MONDAY NOV 11TH



NATIONAL WEATHER SERVICE
OCEANIC AND ATMOSPHERIC ADMINISTRATION



Preliminary Damage Survey

Rockaway Beach Tornado

Date 11/11/24

Time (Local) 9:24 PM

EF Rating EF-0

Est. Peak Winds 85 mph

Path Length 0.25 miles

Max Width 150 yards

Injuries 1 injury



Most ski areas open before/around Thanksgiving

FIRST ALERT SNOWPACK ON MT. HOOD

SNOW DEPTH IN INCHES (Bottom of Pucci Lift 5,400')



NOVEMBER 18TH EACH YEAR

BOMB CYCLONE OFFSHORE – WEDNESDAY NOV 20TH

FIRST ALERT POWERFUL STORM OFFSHORE TUES.

10:00 AM WEDNESDAY 11/20

TWO BIG WINDSTORM PATHS



**TUESDAY'S
STORM
943 mb**

953 mb

958 mb

SEATTLE

PORTLAND



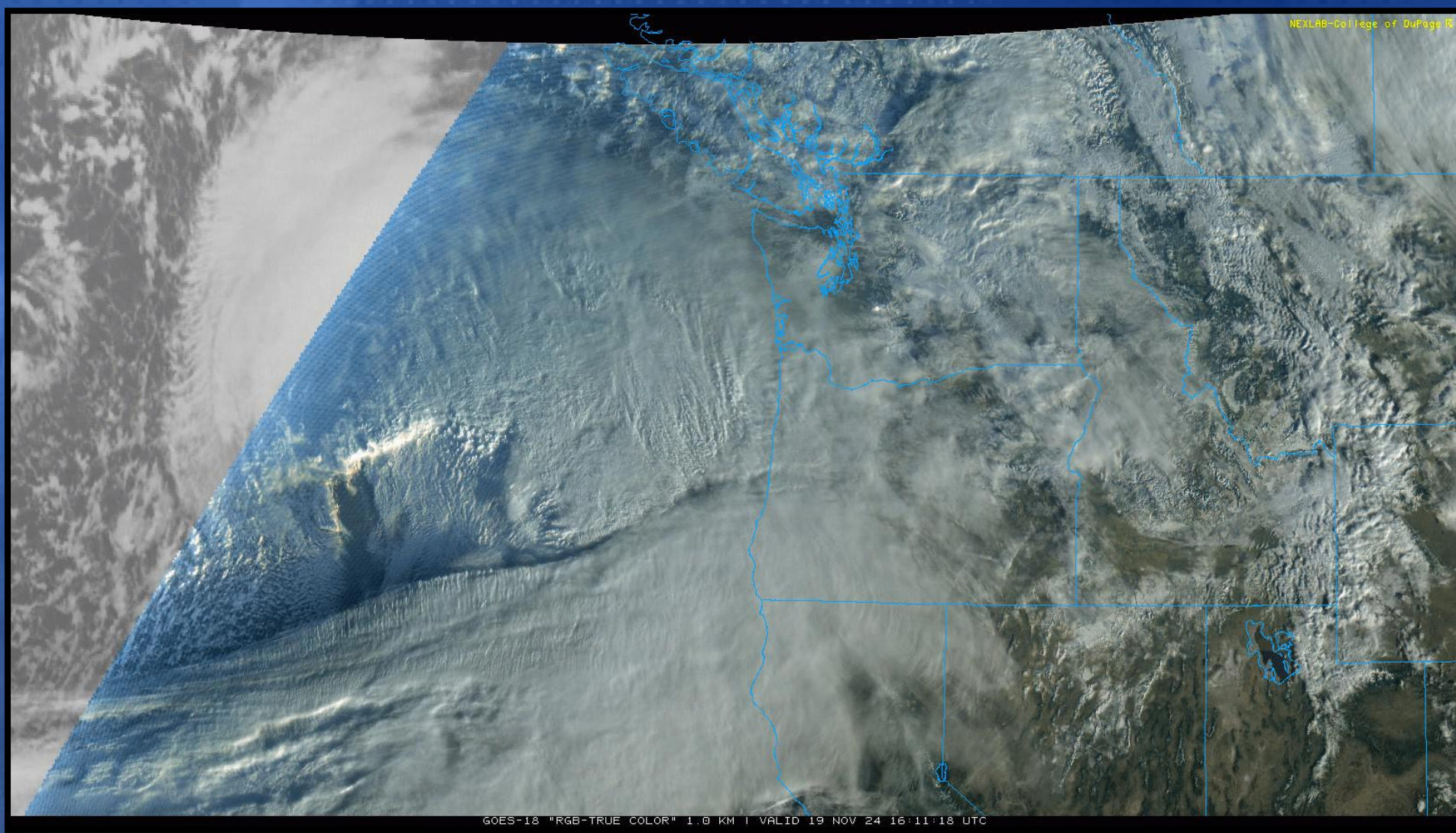
**OCTOBER 12, 1962
COLUMBUS DAY STORM**



**DECEMBER 12
1995 STORM**

EUGENE

BOMB CYCLONE OFFSHORE – WEDNESDAY NOV 20TH



DECEMBER 2024

MILD & WET MONTH...EL NIÑO-ISH

FIRST ALERT DECEMBER 2024 IN PORTLAND

SUN	MON	TUE	WED	THU	FRI	SAT
1 48°	2 48°	3 48°	4 47°	5 47°	6 47°	7 48°
8 50°	9 51°	10 42°	11 46°	12 44°	13 44°	14 52°
15 48°	16 47°	17 56°	18 60°	19 56°	20 55°	21 57°
22 54°	23 55°	24 52°	25 46°	26 55°	27 53°	28 55°
29 52°	30 50°	31 45°				

AVERAGE HIGH: 49° 1st 46° 31st

+3.3°
FROM NORMAL
**3RD WARMEST
DECEMBER
ON RECORD**

DECEMBER 2024

SO MANY MILD NIGHTS!

After brief sunny/cool spell early

FIRST ALERT DECEMBER 2024 LOWS

IN PORTLAND

SUN	MON	TUE	WED	THU	FRI	SAT
1 30°	2 27°	3 28°	4 30°	5 31°	6 33°	7 39°
8 45°	9 32°	10 36°	11 35°	12 39°	13 38°	14 43°
15 42°	16 43°	17 43°	18 46°	19 46°	20 44°	21 44°
22 45°	23 44°	24 41°	25 41°	26 45°	27 45°	28 48°
29 43°	30 41°	31 37°				

DECEMBER 2024

WETTER THAN AVERAGE

Although not excessively wet or stormy

FIRST ALERT DECEMBER 2024 IN PORTLAND

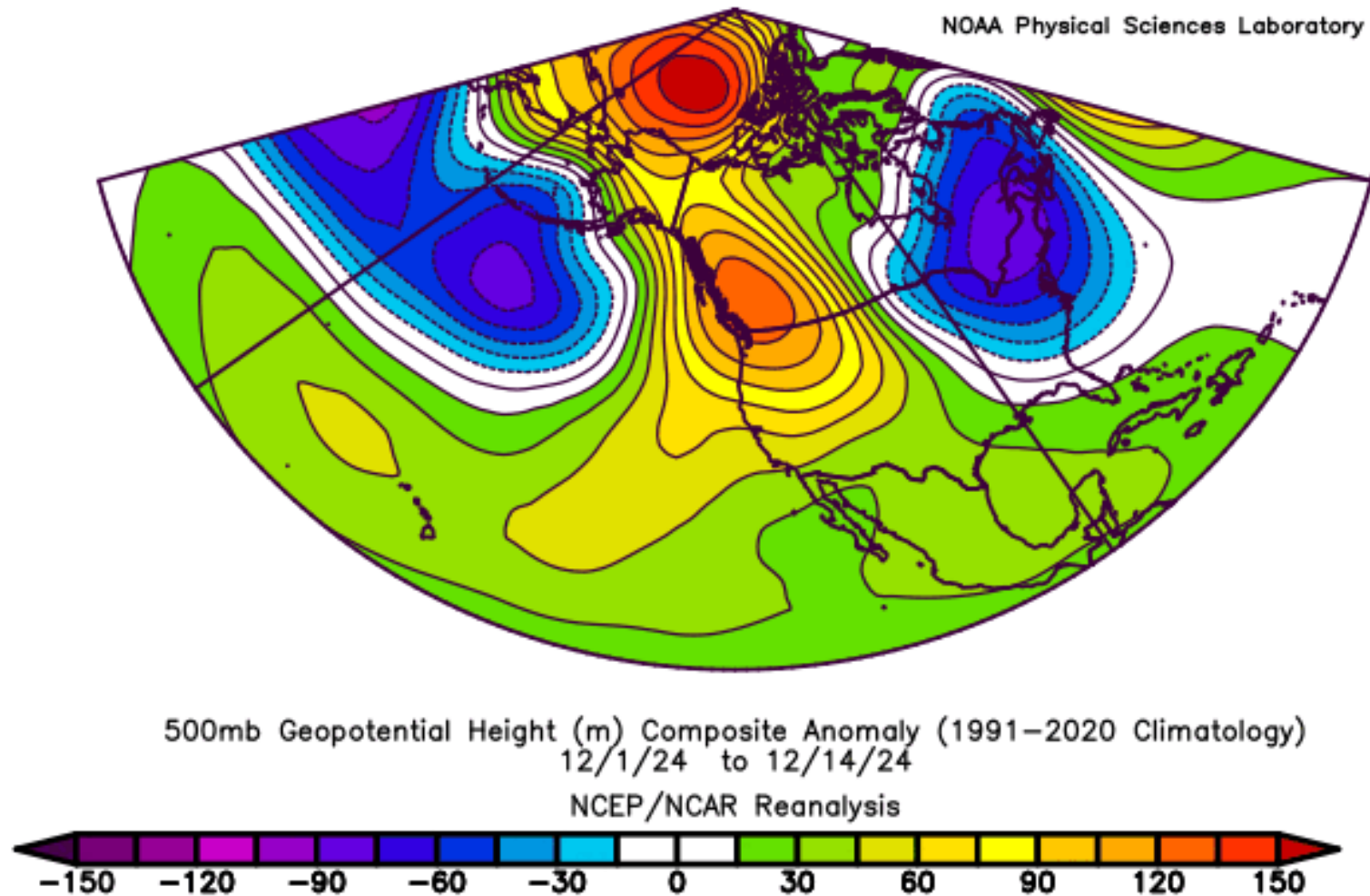
SUN	MON	TUE	WED	THU	FRI	SAT
1 .	2 .	3 .	4 .	5 .	6 .	7 .67"
8 .07"	9 .	10 .	11 .	12 .19"	13 .45"	14 .18"
15 .06"	16 .33"	17 1.03"	18 .15"	19 .	20 .	21 .11"
22 .21"	23 .24"	24 .17"	25 1.11"	26 .82"	27 .42"	28 .06"
29 .31"	30 .07"	31 .14"				

RAIN
6.79"

A TYPICAL
DECEMBER
5.77"

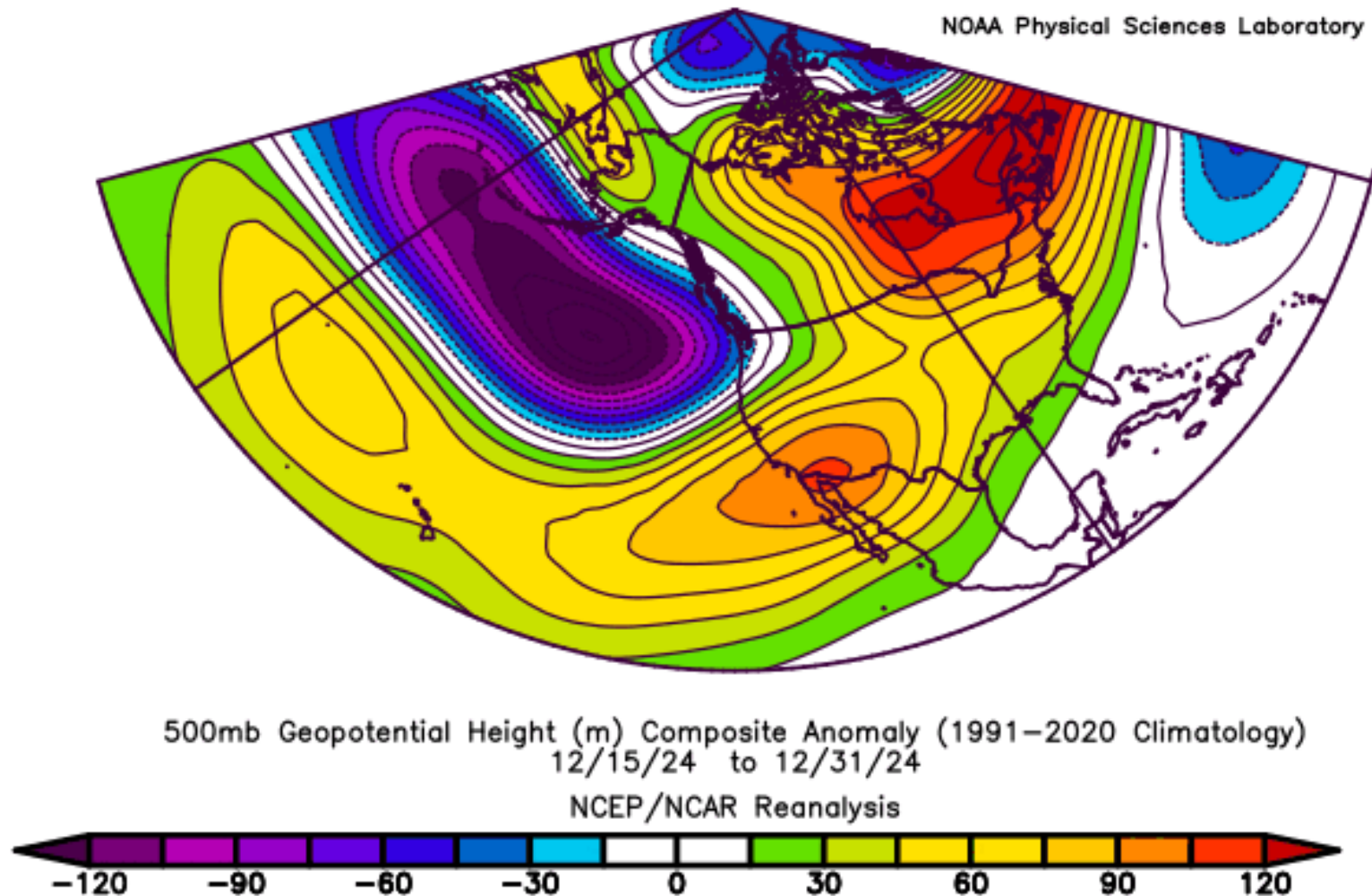
DECEMBER 500MB

Ridging over western USA first half of month



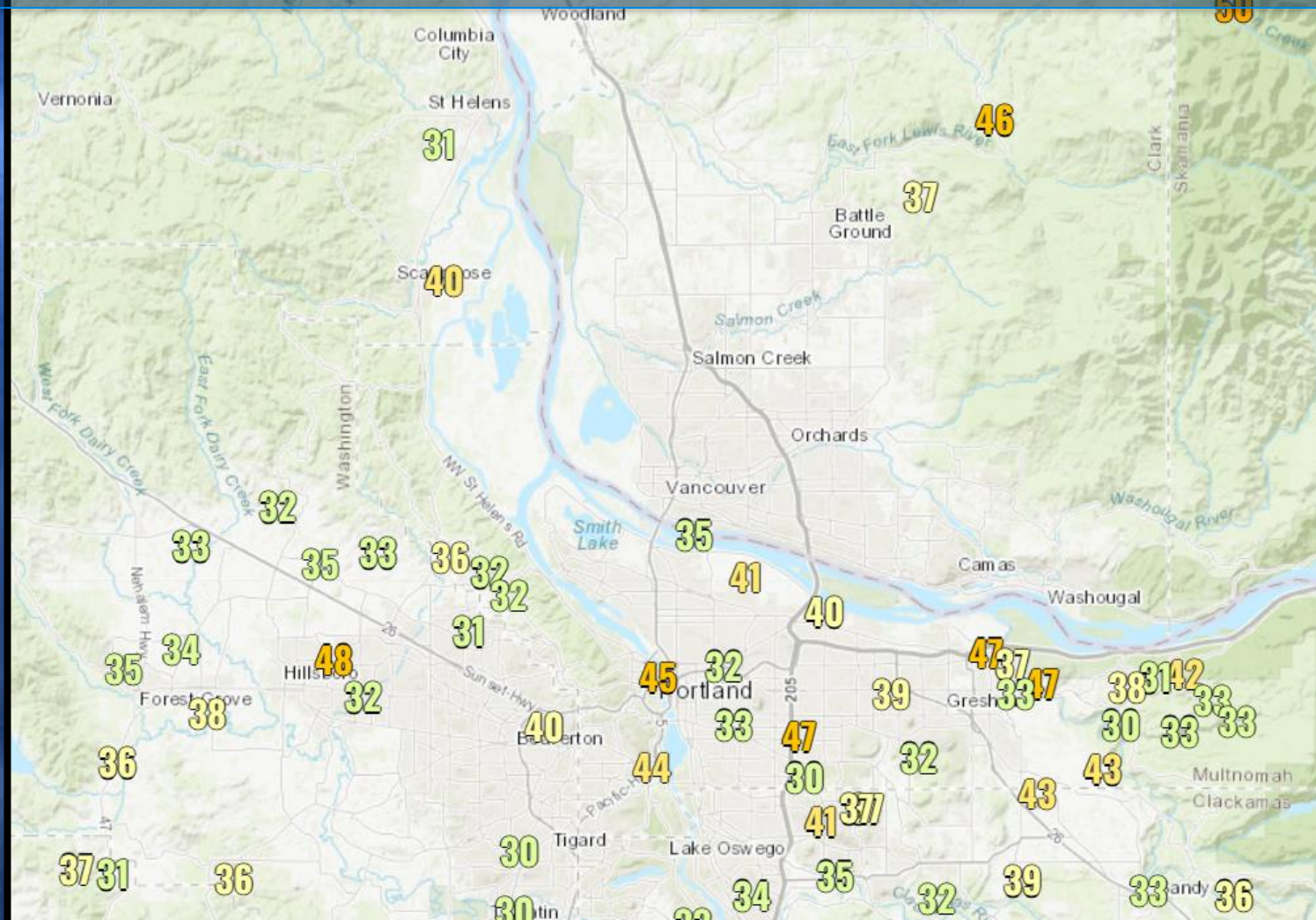
DECEMBER 500MB

Troughing in Eastern Pacific 2nd half of month



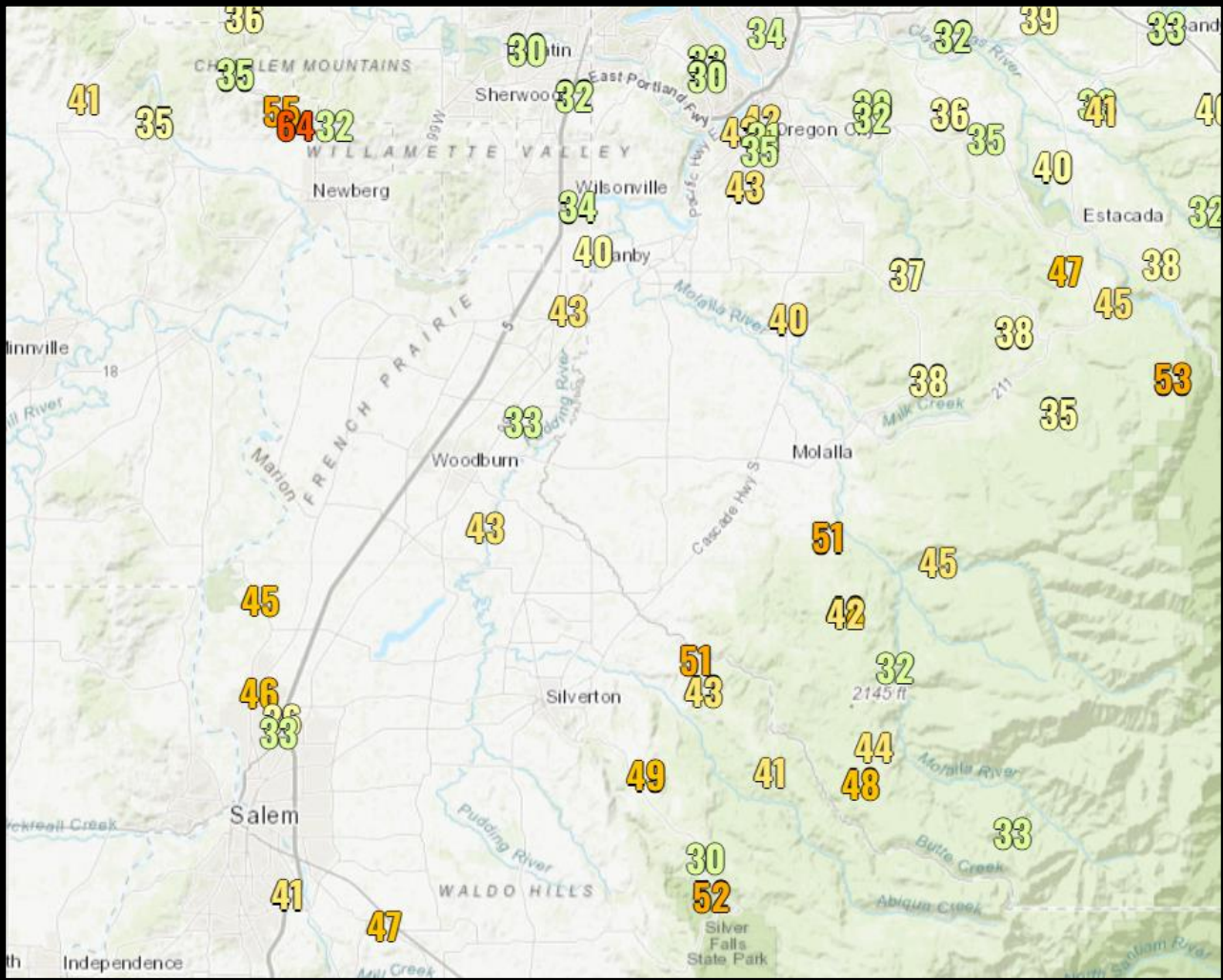
DECEMBER 2024

MINOR BOXING DAY "WINDSTORM" DEC. 26TH



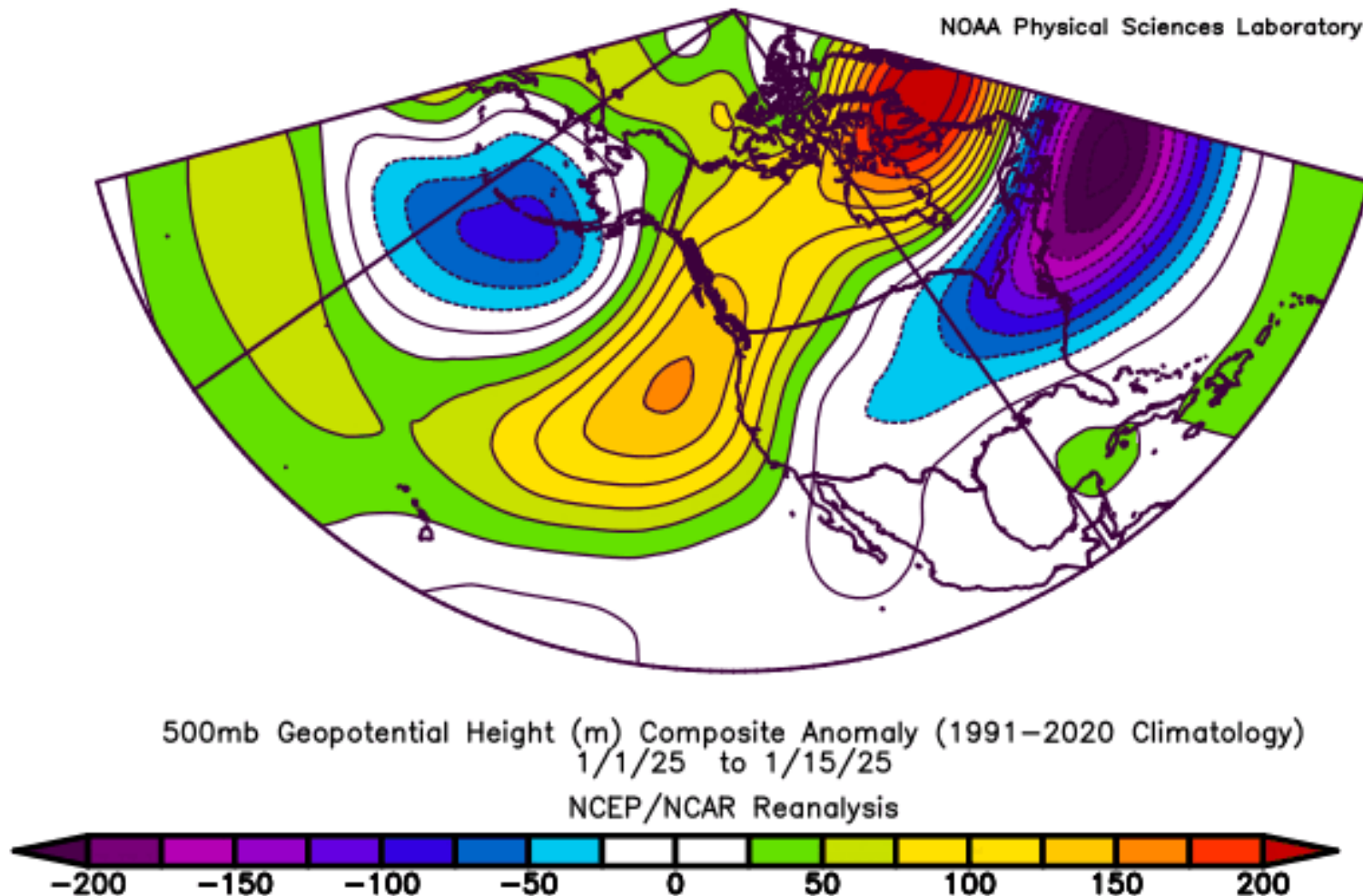
DECEMBER 2024

MINOR BOXING DAY "WINDSTORM" DEC. 26TH



JANUARY 2025: Upper-level ridging over West Coast

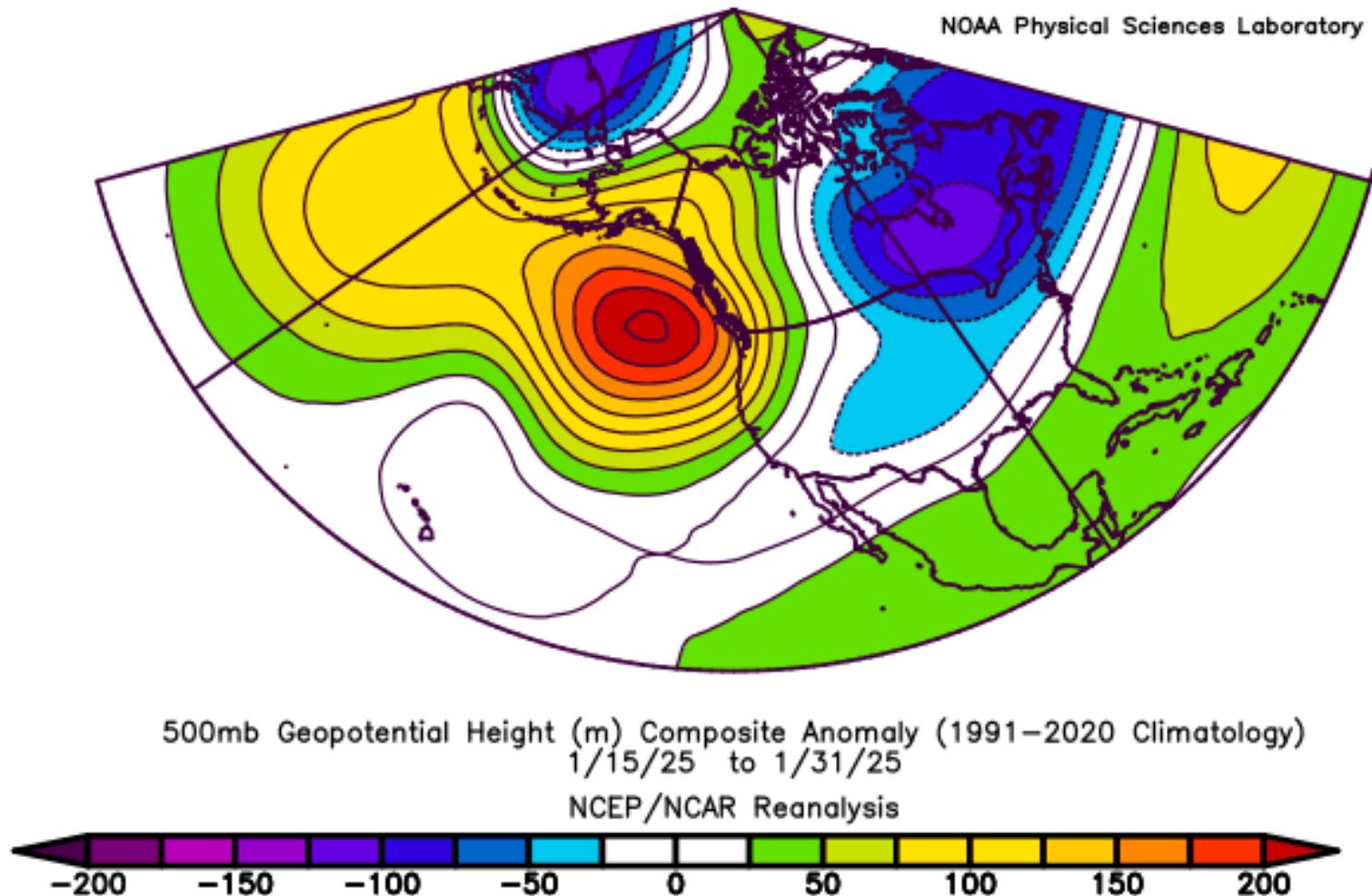
1st half of month = mild and wet at times



JANUARY 15-31st 2025

Upper-level ridging shifts slightly westward 2nd half

Dry, colder nights but mild/sunny days



FIRST ALERT JANUARY 2025 IN PORTLAND

SUN	MON	TUE	WED	THU	FRI	SAT
			1 .01"	2 .48"	3 .62"	4 .60"
5 .08"	6	7	8	9	10 .27"	11 .07"
12 .04"	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31 .76"	

RAIN

A TYPICAL
JANUARY
5.03"

FIRST ALERT JANUARY DRY SPELLS

CONSECUTIVE DAYS WITH NO MEASURABLE RAIN AT PDX

PREVIOUS: 17 DAYS - JAN 1948

NEW
RECORD

18

4

2015

3

2016

5

2017

3

2018

8

2019

2

2020

2

2021

9

2022

5

2023

2

2024

2025

FIRST ALERT JANUARY RAIN IN PORTLAND

TOTAL IN INCHES

TYPICALLY OUR
THIRD WETTEST MONTH



FIRST ALERT JANUARY 2025 IN PORTLAND

SUN	MON	TUE	WED	THU	FRI	SAT
			1 44°	2 44°	3 47°	4 51°
5 55°	6 56°	7 49°	8 54°	9 50°	10 50°	11 49°
12 47°	13 41°	14 41°	15 48°	16 40°	17 41°	18 51°
19 46°	20 47°	21 47°	22 49°	23 48°	24 52°	25 50°
26 51°	27 51°	28 52°	29 52°	30 42°	31 54°	

AVERAGE HIGH: 46° 1st 49° 31st

-0.4°
FROM NORMAL

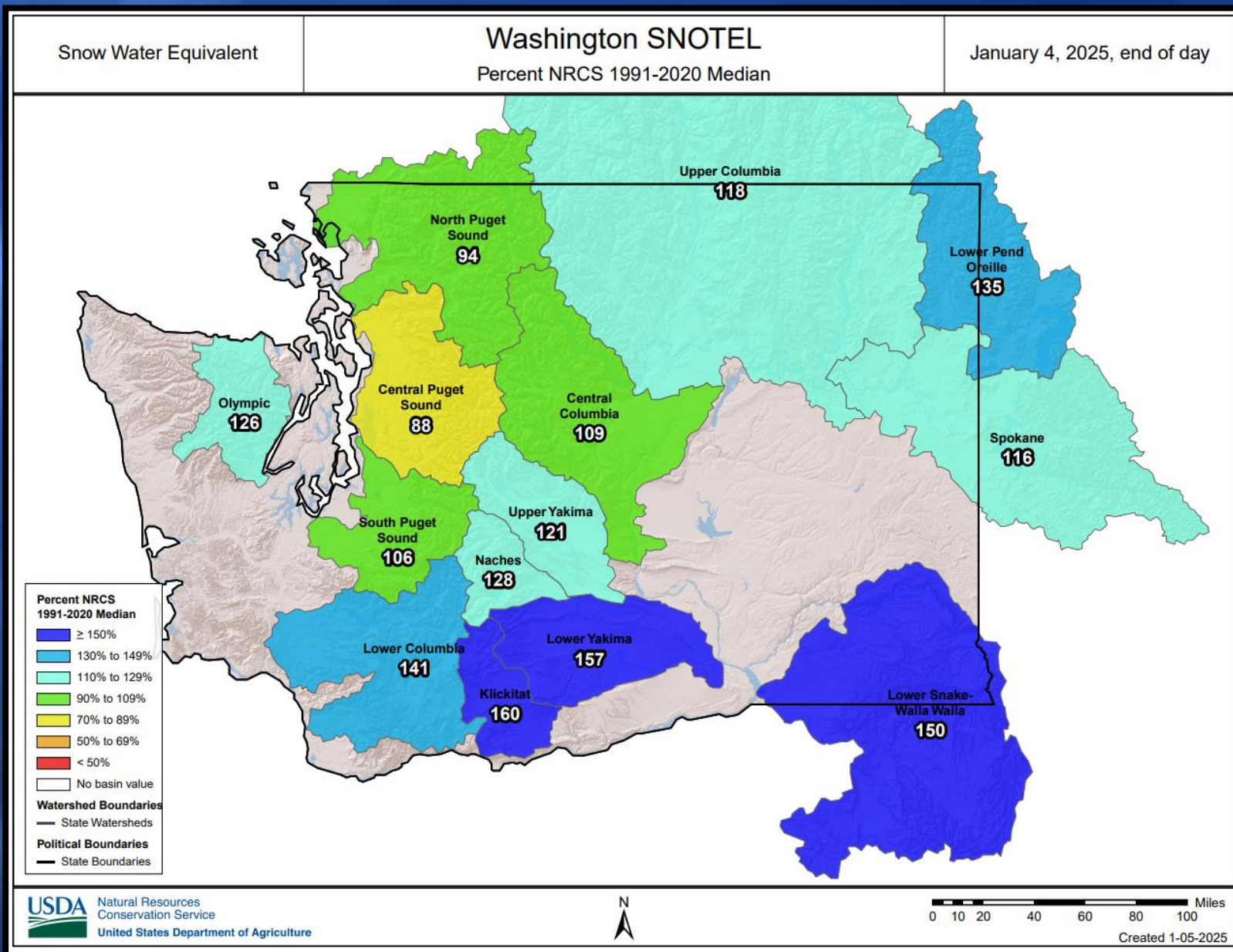
NEAR NORMAL
FOR JANUARY

FIRST ALERT JANUARY 2025 LOWS

IN PORTLAND

SUN	MON	TUE	WED	THU	FRI	SAT
			1 40°	2 41°	3 43°	4 43°
5 48°	6 42°	7 36°	8 37°	9 35°	10 40°	11 43°
12 40°	13 35°	14 36°	15 35°	16 33°	17 36°	18 30°
19 26°	20 36°	21 28°	22 25°	23 27°	24 30°	25 28°
26 27°	27 25°	28 25°	29 27°	30 26°	31 41°	

EARLY JANUARY... SNOWPACK NEAR NORMAL IN WASHINGTON



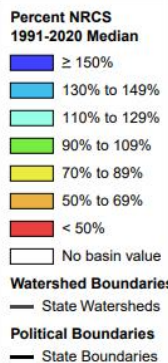
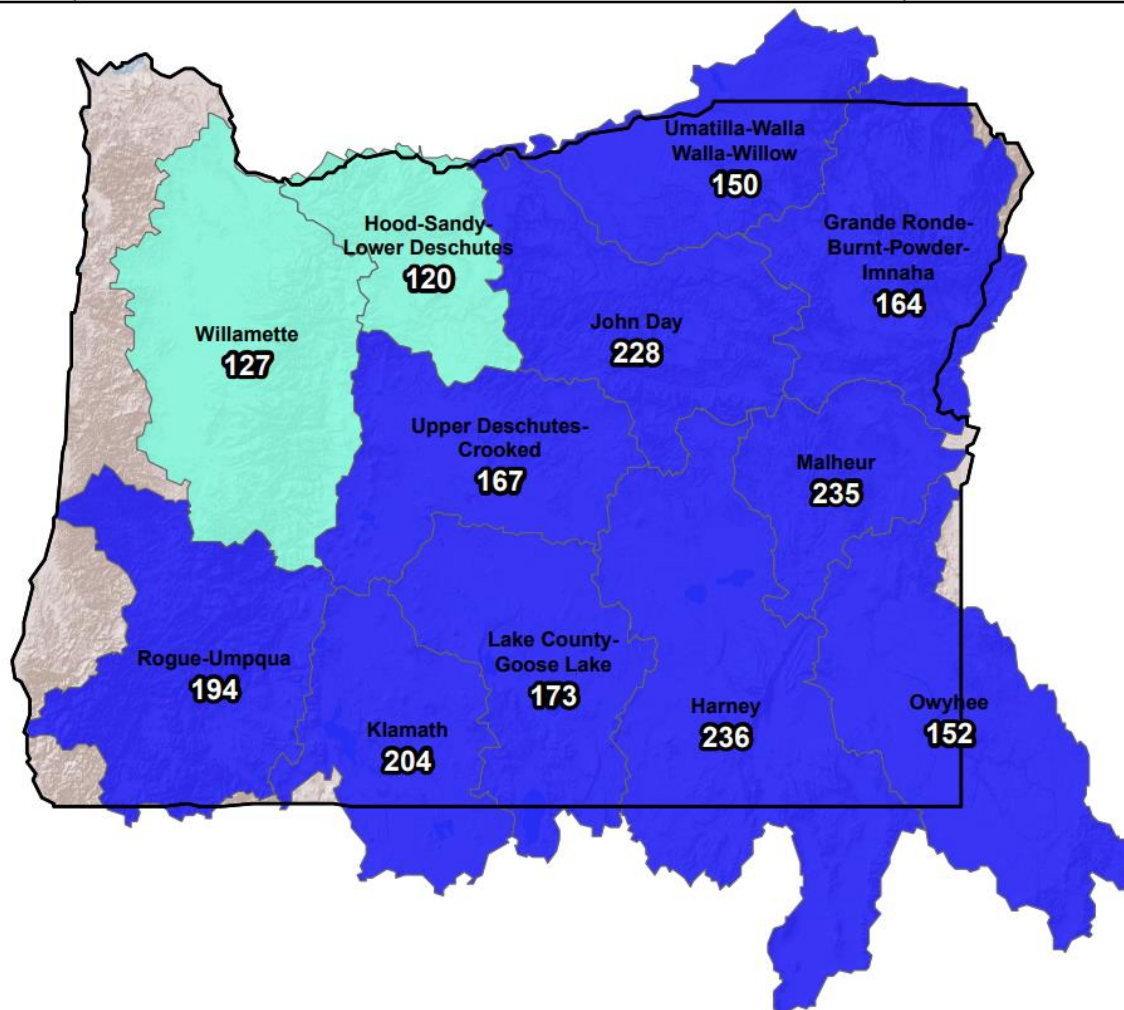
EARLY JANUARY...EXCELLENT OR SNOWPACK!

Snow Water Equivalent

Oregon SNOTEL

Percent NRCS 1991-2020 Median

January 4, 2025, end of day

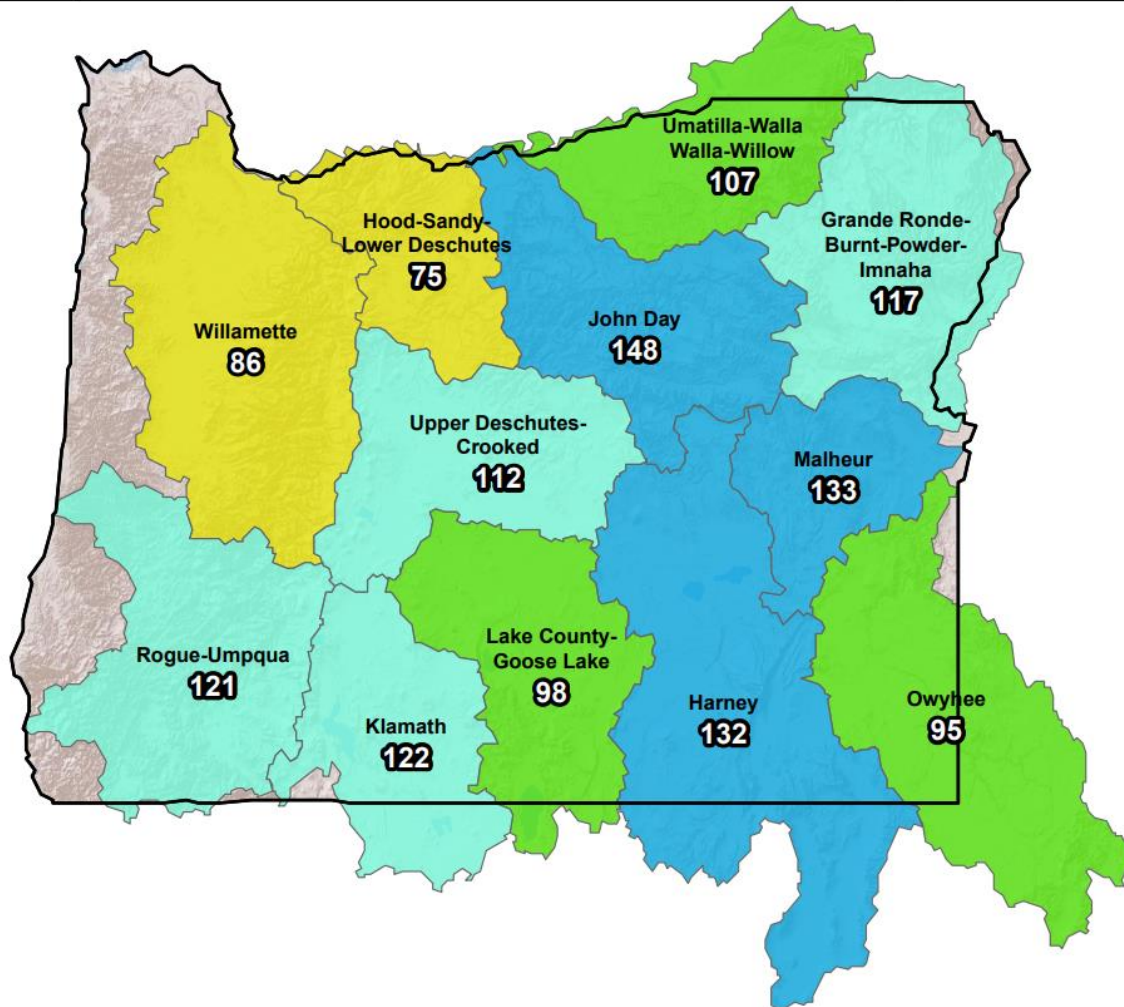


LATE JANUARY... BELOW NORMAL SNOWPACK N.W. OREGON

Snow Water Equivalent

Oregon SNOTEL
Percent NRCS 1991-2020 Median

January 29, 2025, end of day



Percent NRCS
1991-2020 Median

- ≥ 150%
- 130% to 149%
- 110% to 129%
- 90% to 109%
- 70% to 89%
- 50% to 69%
- < 50%

No basin value

Watershed Boundaries

State Watersheds

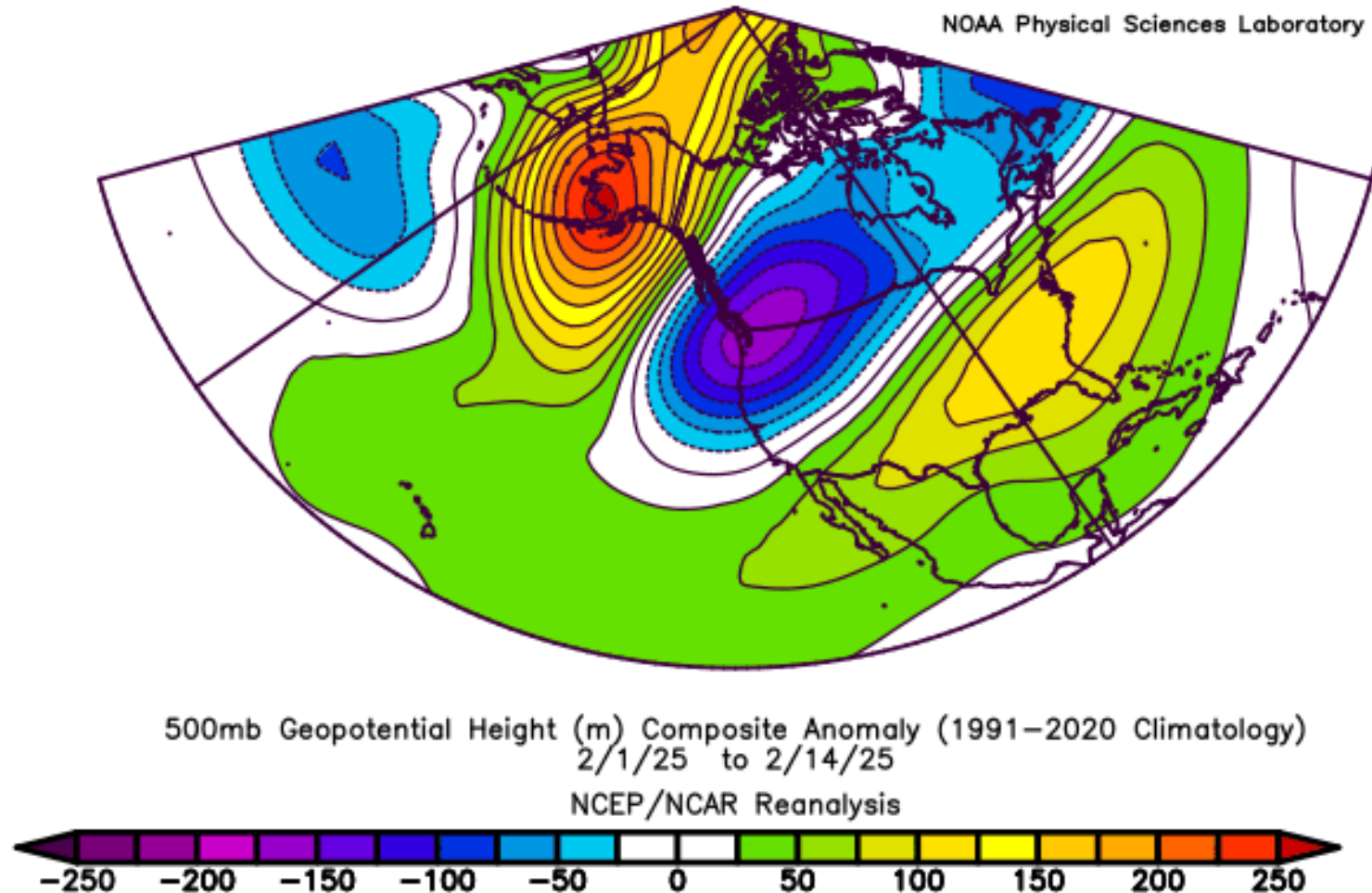
Political Boundaries

State Boundaries



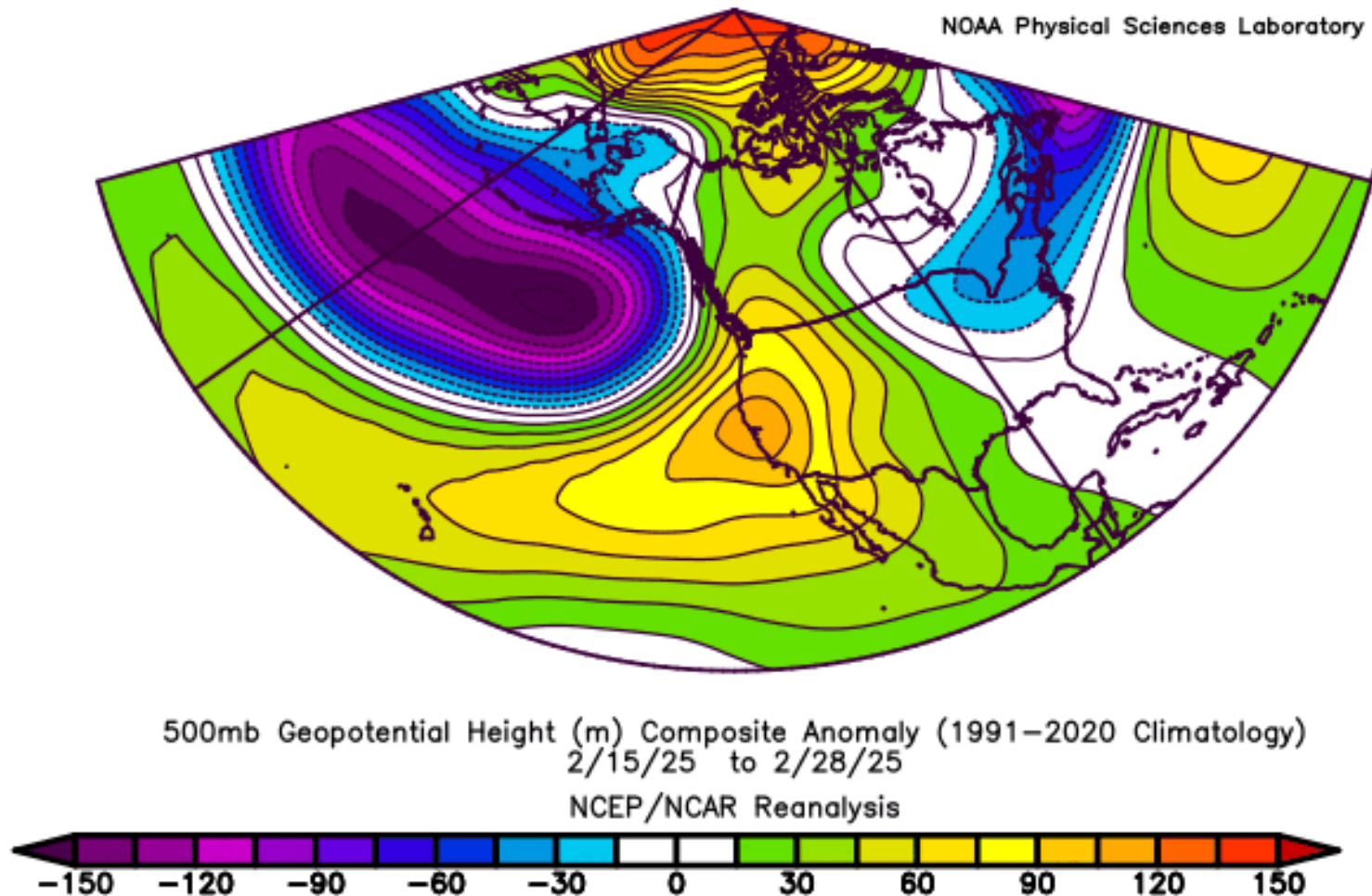
FEBRUARY

Upper-level high shifts farther north & west
Allows cold troughing over PACNW



FEBRUARY

Mild winter returns 2nd half of month
Ridging along West Coast = early spring temps!



FIRST ALERT FEBRUARY 2025 IN PORTLAND

SUN MON TUE WED THU FRI SAT

						1 47°
2 45°	3 42°	4 44°	5 45°	6 45°	7 44°	8 45°
9 45°	10 45°	11 41°	12 41°	13 35°	14 38°	15 43°
16 44°	17 55°	18 51°	19 48°	20 53°	21 56°	22 56°
23 61°	24 58°	25 56°	26 61°	27 70°	28 68°	

AVERAGE HIGH: 49° 1st 54° 31st

-1.2°
FROM NORMAL

**COLD START,
WARM FINISH**

FIRST ALERT FEBRUARY 2025 IN PORTLAND

SUN	MON	TUE	WED	THU	FRI	SAT
						¹ .03"
² 	³ .02"	⁴ 	⁵ .13"	⁶ 	⁷ .01"	⁸ .11"
⁹ .01"	¹⁰ 	¹¹ 	¹² 	¹³ .14"	¹⁴ .21"	¹⁵ .15"
¹⁶ .43"	¹⁷ .10"	¹⁸ .01"	¹⁹ .29"	²⁰ 	²¹ .06"	²² .75"
²³ .96"	²⁴ .86"	²⁵ .07"	²⁶ 	²⁷ 	²⁸ 	

RAIN
4.34"

A TYPICAL
FEBRUARY
3.68"

Several days of cool/onshore flow showers

But (most?) snow was along coast

...SNOWFALL REPORTS...

Location	Amount	Time/Date
...Tillamook County Coast...		
Netarts	3.0 in	0858 AM 02/04
Tillamook 6.9 SSE	2.0 in	0930 AM 02/04
Tillamook 5.1 SSE	1.6 in	0700 AM 02/04
...South Washington Coast...		
Naselle	6.0 in	0830 AM 02/04
Ilwaco	6.0 in	1000 AM 02/04
2 ENE Ilwaco	5.5 in	0100 PM 02/04
2 SSE Oceanside	5.0 in	1200 PM 02/04
2.1 S Raymond	2.0 in	0600 AM 02/04
...Clatsop County Coast...		
Astoria	2.0 in	1200 PM 02/04
Cannon Beach 0.7 SE	1.8 in	0700 AM 02/04
Astoria 3.5 SSW	1.3 in	0700 AM 02/04
Warrenton	1.0 in	0700 AM 02/04



Several days of cool/onshore flow showers

Best (most?) snow was along coast

US101 at Lincoln City - Logan Rd
Updated: Feb 04 2025 9:20 AM Looking North



Elevation 108 TripCheck.com Milepost 112.78

US101 at Astoria - ODOT District Office
Updated: Feb 03 2025 7:56 AM



US101 @ Astoria Megler Bridge MP 3.69
Elevation 31 TripCheck.com Milepost 3.70



Coldest 850mb temp of winter over Salem...February 11th

Date:1200Z 11 FEB 25

Station: KSLE

WMO ident: 72694

Latitude: 44.92

Longitude: -123.00

Elevation: 61.00

LEV	PRES	HGHT	TEMP	DEWP	RH	DD	WETB	DIR	SPD	THETA	THE-V	THE-W	THE-E	W
	mb	m	C	C	%	C	C	deg	knt	K	K	K	K	g/kg
SFC	1019	61	-2.1	-8.1	63	6.0	-4.0	355	4	269.6	269.9	268.1	275.2	2.03
1	1000	213	-2.9	-7.9	68	5.0	-4.5	20	13	270.2	270.6	268.7	276.0	2.10
2	993	269	-3.3	-8.3	68	5.0	-4.8	29	15	270.4	270.7	268.7	276.0	2.05
3	982	357	-2.9	-9.9	58	7.0	-5.0	38	15	271.7	272.0	269.1	276.7	1.83
4	965	495	-3.3	-11.3	54	8.0	-5.7	44	11	272.6	272.9	269.5	277.3	1.67
5	943	676	-4.3	-11.3	58	7.0	-6.4	55	8	273.4	273.7	270.0	278.2	1.71
6	932	769	-4.3	-11.3	58	7.0	-6.4	61	8	274.3	274.6	270.7	279.2	1.73
7	925	828	-4.9	-11.9	58	7.0	-6.9	65	8	274.3	274.6	270.5	279.0	1.66
8	916	905	-5.5	-11.5	63	6.0	-7.2	69	8	274.5	274.7	270.7	279.3	1.73
9	901	1034	-5.7	-13.7	53	8.0	-7.9	70	8	275.5	275.8	271.0	279.7	1.47
10	850	1488	-8.7	-14.7	62	6.0	-10.3	50	15	277.0	277.3	271.8	281.2	1.44
11	832	1653	-9.9	-14.9	67	5.0	-11.2	45	15	277.5	277.7	272.1	281.6	1.44

Deep snow cover + cold airmass = record cold east of Cascades

Minimum 1-Day Mean Min Temperature for Klamath Falls Area, OR (ThreadEx)

Click column heading to sort ascending, click again to sort descending

Rank	Value	Ending Date
1	-14.0	2025-02-12
2	-10.0	2025-02-11
-	-10.0	1989-02-06
-	-10.0	1950-02-02
-	-10.0	1933-02-09
6	-9.0	2025-02-10
-	-9.0	1933-02-10
-	-9.0	1917-02-01
9	-8.0	1989-02-07
-	-8.0	1950-02-03

Last value also occurred in one or more previous years.

Period of record: 1897-12-02 to 2025-03-13

Minimum 1-Day Mean Min Temperature for BURNS MUNICIPAL AIRPORT, OR

Click column heading to sort ascending, click again to sort descending.

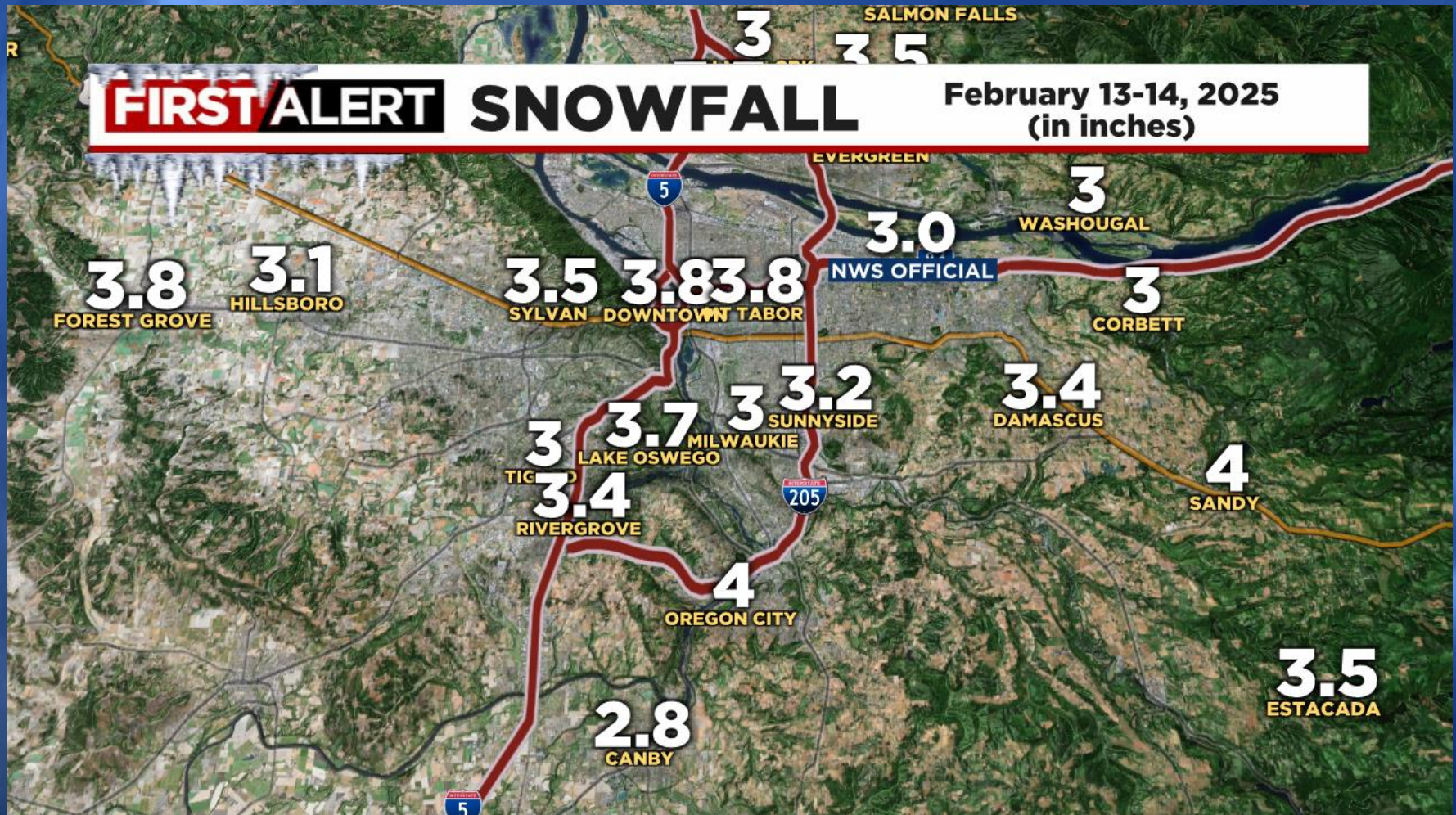
Rank	Value	Ending Date
1	-30.0	2013-12-08
2	-28.0	1990-12-22
-	-28.0	1985-02-04
4	-27.0	2025-02-12
-	-27.0	1982-01-06
6	-25.0	2010-12-31
-	-25.0	1989-02-06
8	-24.0	1990-12-21
-	-24.0	1989-02-05
10	-23.0	2025-02-11

Last value also occurred in one or more previous years.

Period of record: 1973-01-19 to 2025-03-16

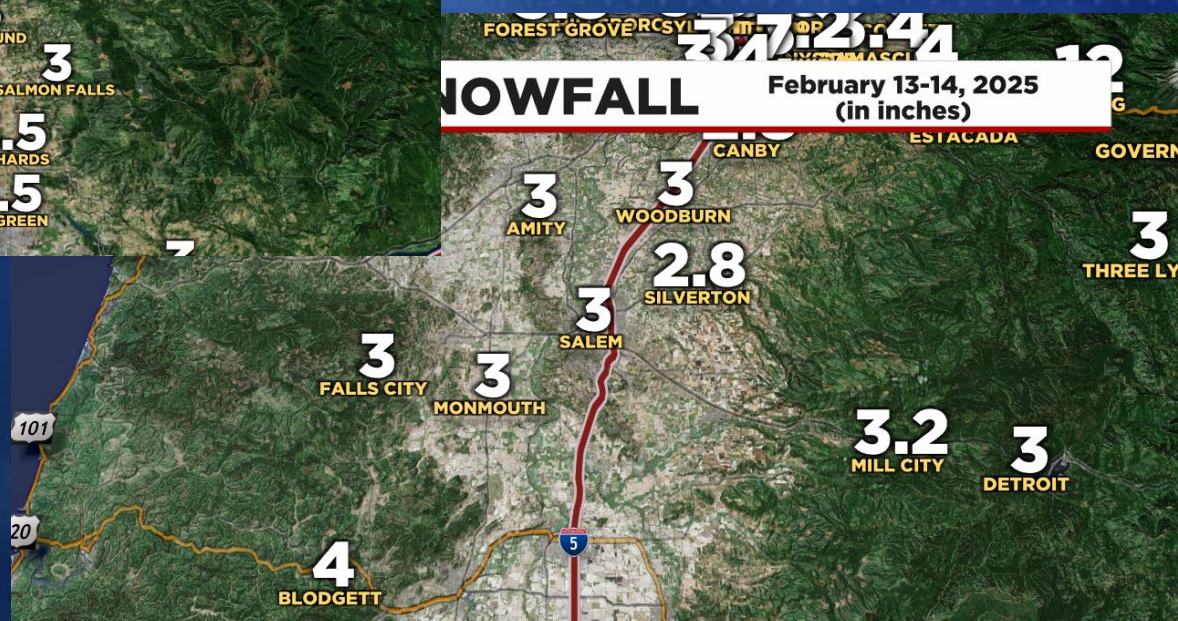
February 13th-14th snowfall

1. Surprisingly uniform snow totals in NW OR and SW WA lowlands!
2. One wave of snow Thursday morning 13th
3. Light freezing rain/pellets Thursday evening
4. Another 1-3" overnight into Valentine's morning



February 13th-14th snowfall

1. Surprisingly uniform snow totals in NW OR and SW WA lowlands!
2. One wave of snow Thursday morning 13th
3. Light freezing rain/pellets Thursday evening
4. Another 1-3" overnight into Valentine's morning



Forecast from night before...

00Z GRAF (TWC)

PORTLAND

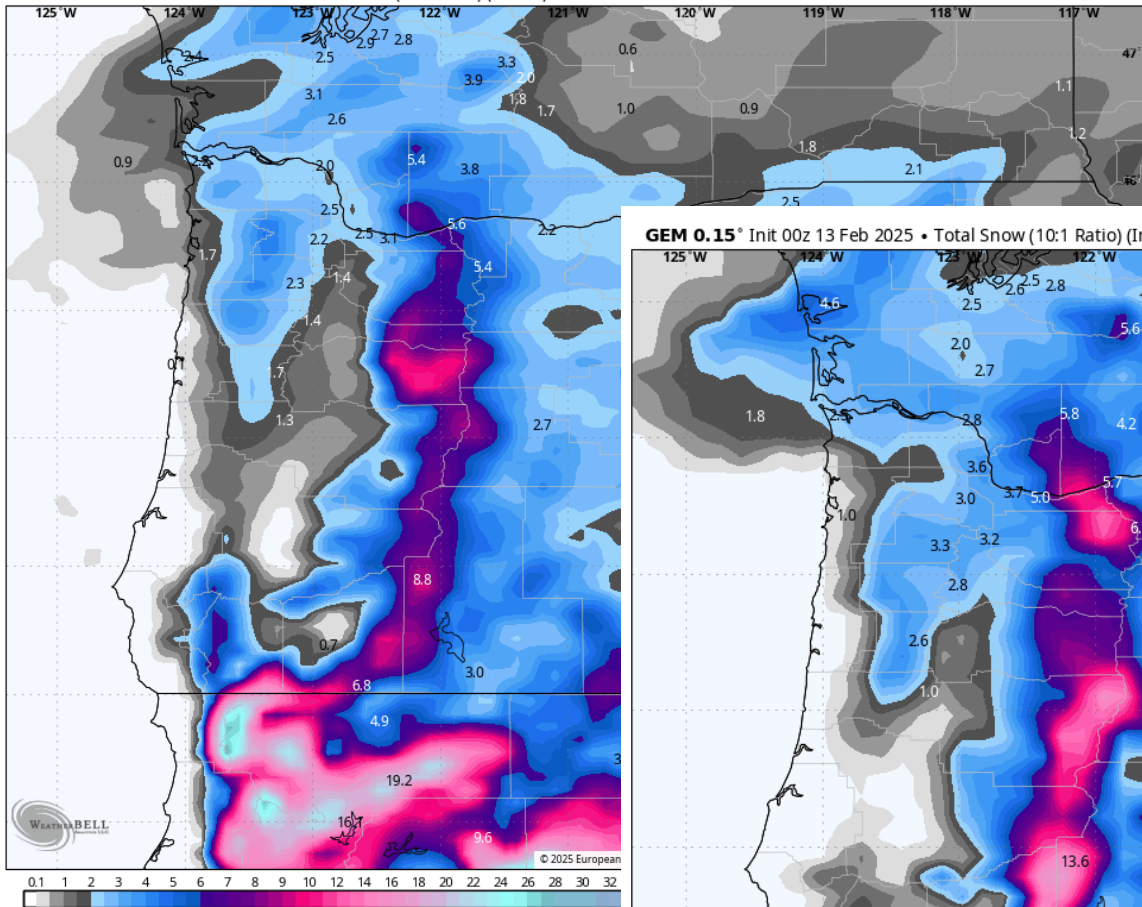
Image Created: 6:26 PM 2/12/2025

		T	Td	VIS	REL HUM	SFC WND/GST	850 WND	SLP	PRECIP	SNOW	ICE	CAPE	% CLD
WEDNESDAY	8:00 PM	29	14		51%	E 24 39	SE 11	1008	0	.0	.0	0	68
WEDNESDAY	9:00 PM	28	13		52%	E 23 38	E 15	1007	0	.0	.0	0	79
WEDNESDAY	10:00 PM	28	13		52%	E 25 41	E 19	1006	0	.0	.0	0	27
WEDNESDAY	11:00 PM	28	12		50%	E 25 41	E 19	1005	0	.0	.0	0	42
THURSDAY	12:00 AM	28	12		50%	E 24 40	SE 19	1004	0	.0	.0	0	54
THURSDAY	1:00 AM	28	13		51%	NE 25 41	E 21	1003	0	.0	.0	0	60
THURSDAY	2:00 AM	29	13		50%	E 24 40	E 27	1002	0	.0	.0	0	83
THURSDAY	3:00 AM	29	12		48%	E 25 41	E 25	1000	0	.0	.0	0	100
THURSDAY	4:00 AM	29	11		47%	E 25 41	E 31	999	0	.0	.0	0	100
THURSDAY	5:00 AM	29	11		45%	E 23 39	E 39	998	0	.0	.0	0	100
THURSDAY	6:00 AM	29	12		46%	E 23 38	E 39	997	0	.0	.0	0	100
THURSDAY	7:00 AM	30	13		48%	E 19 33	E 35	997	0	.0	.0	0	100
THURSDAY	8:00 AM	31	16	1.9 mi	54%	E 16 27	E 41	997	.01	.0	.0	0	100
THURSDAY	9:00 AM	29	21	0.5 mi	70%	E 16 27	E 39	997	.04	.5	.0	0	100
THURSDAY	10:00 AM	30	22	0.9 mi	73%	E 15 26	SE 31	997	.09	1.0	.0	0	100
THURSDAY	11:00 AM	28	21	1.3 mi	76%	NE 18 29	S 21	997	.12	1.4	.0	0	100
THURSDAY	12:00 PM	27	19		70%	E 22 37	S 21	997	.12	1.6	.0	0	100
THURSDAY	1:00 PM	27	18		67%	NE 22 38	S 27	997	.18	1.8	.0	0	93
THURSDAY	2:00 PM	29	19		63%	E 23 38	S 23	997	.18	1.8	.0	0	75
THURSDAY	3:00 PM	30	20		62%	E 23 38	S 21	996	.18	1.8	.0	0	100
THURSDAY	4:00 PM	29	19		64%	NE 22 37	S 17	996	.18	1.8	.0	0	98
THURSDAY	6:00 PM	29	19		64%	E 22 36	S 9	997	.18	1.8	.0	0	100
THURSDAY	8:00 PM	30	20		65%	NE 22 36	E 13	998	.18	1.8	.0	0	100
THURSDAY	10:00 PM	30	22		71%	E 19 32	SE 7	1000	.18	1.8	.0	0	100
FRIDAY	12:00 AM	30	21	1.9 mi	71%	NE 17 29	S 7	1001	.22	1.8	.0	0	100
FRIDAY	2:00 AM	28	23	1.3 mi	79%	NE 15 26	SW 13	1004	.28	2.1	.1	0	100
FRIDAY	4:00 AM	29	24	2.2 mi	83%	NE 12 22	SW 17	1007	.38	2.9	.1	0	100
FRIDAY	6:00 AM	30	25	3.9 mi	82%	NE 8 16	W 11	1009	.38	3.0	.1	0	100
FRIDAY	8:00 AM	30	26	2.5 mi	83%	NE 5 10	NW 11	1012	.38	3.0	.1	0	100
FRIDAY	10:00 AM	32	27	3.6 mi	84%	E 3	NW 11	1015	.38	3.2	.1	0	100
FRIDAY	12:00 PM	33	30	1.4 mi	89%	SE	NW 11	1018	.42	3.5	.1	0	100
FRIDAY	2:00 PM	37	32		83%	S 4	NW 23	1021	.42	3.5	.1	0	0
FRIDAY	4:00 PM	37	36		92%	S 3	W 23	1023	.42	3.5	.1	0	100
FRIDAY	6:00 PM	34	34		100%	SE 2	W 19	1025	.42	3.5	.1	0	100
FRIDAY	8:00 PM	33	33		100%	SW	W 13	1026	.42	3.5	.1	0	77
FRIDAY	10:00 PM	34	34		100%	SW 2	W 15	1028	.42	3.5	.1	0	100
SATURDAY	12:00 AM	33	33		100%	S	W 11	1030	.42	3.5	.1	0	100
SATURDAY	2:00 AM	33	33		100%	SW	SW 9	1030	.42	3.5	.1	0	100
SATURDAY	4:00 AM	33	33		100%	SE	SW 5	1030	.42	3.5	.1	0	89
SATURDAY	6:00 AM	32	32		100%	NW	S Calm	1030	.42	3.5	.1	0	100
SATURDAY	8:00 AM	33	33	0.2 mi	98%	N	S 5	1030	.42	3.5	.1	0	93
SATURDAY	10:00 AM	35	34	0.2 mi	98%	N 2	S 7	1028	.42	3.5	.1	0	100
SATURDAY	12:00 PM	37	37	0.2 mi	97%	N 3	S 11	1028	.42	3.5	.1	0	100
SATURDAY	2:00 PM	42	39		85%	NE 4 9	S 13	1026	.42	3.5	.1	0	100
SATURDAY	3:00 PM	45	37		74%	E 8 13	S 17	1026	.42	3.5	.1	0	100
SATURDAY	4:00 PM	45	37		74%	E 9 17	S 19	1025	.42	3.5	.1	0	100

The “snowy” model forecasts

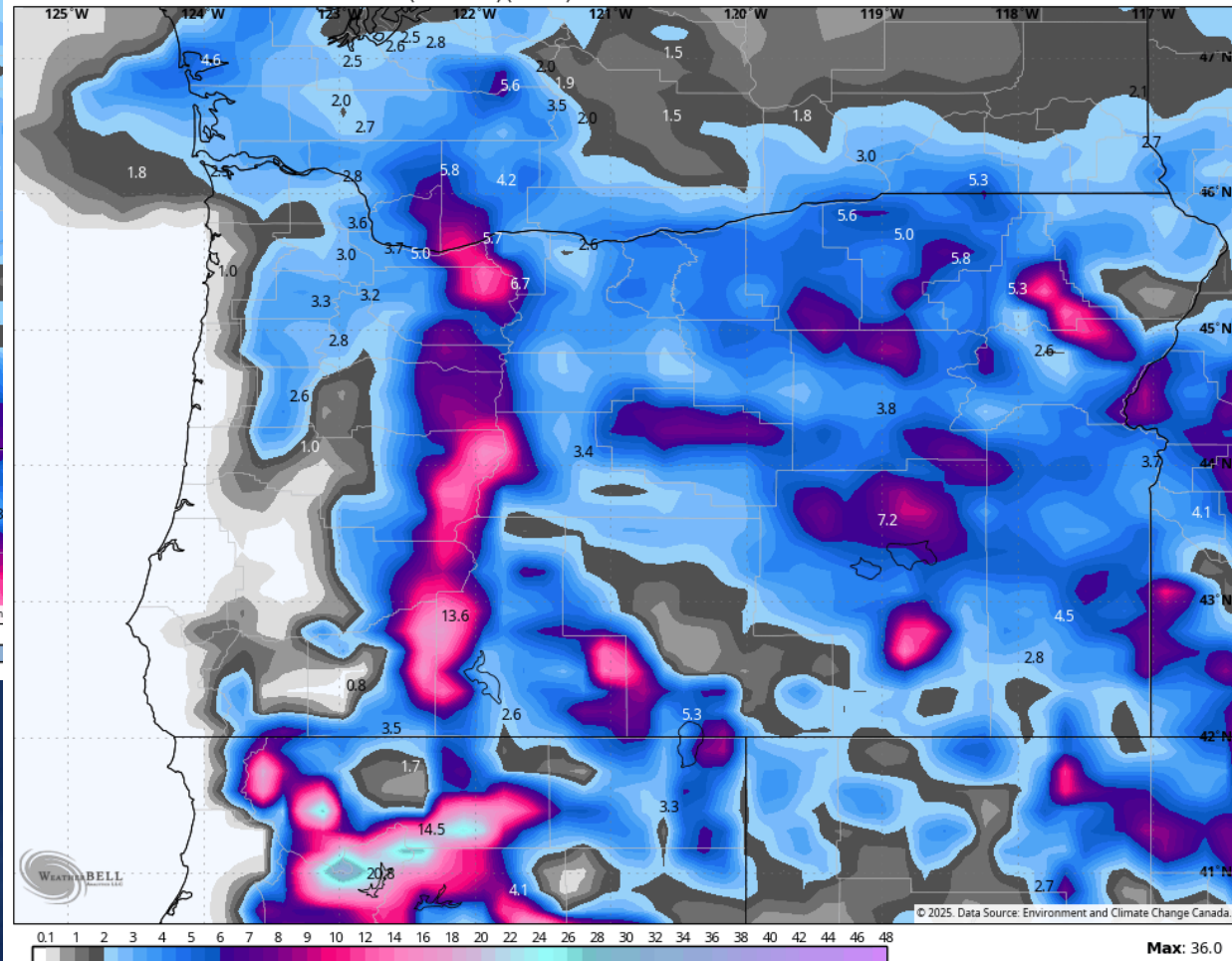
ECMWF 0.1° Init 00z 13 Feb 2025 • Total Snow (10:1 Ratio) (Inches)

Hour: 42 • Valid: 18z Fri 14 Feb 2025



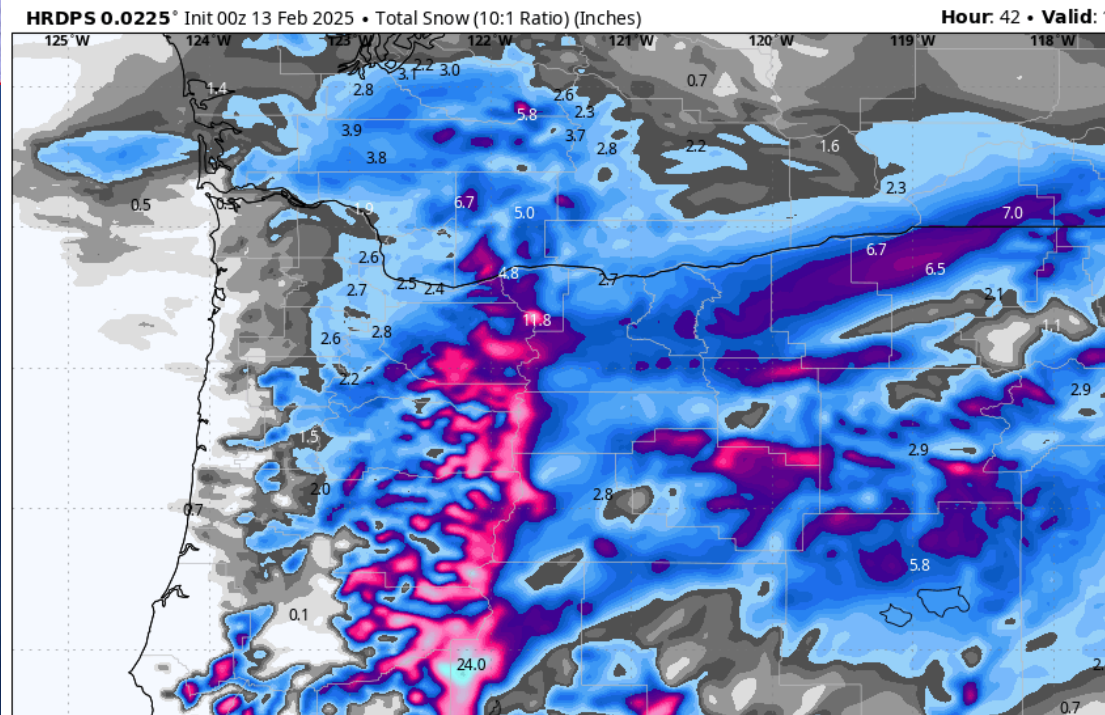
GEM 0.15° Init 00z 13 Feb 2025 • Total Snow (10:1 Ratio) (Inches)

Hour: 48 • Valid: 00z Sat 15 Feb 2025



Max: 36.0

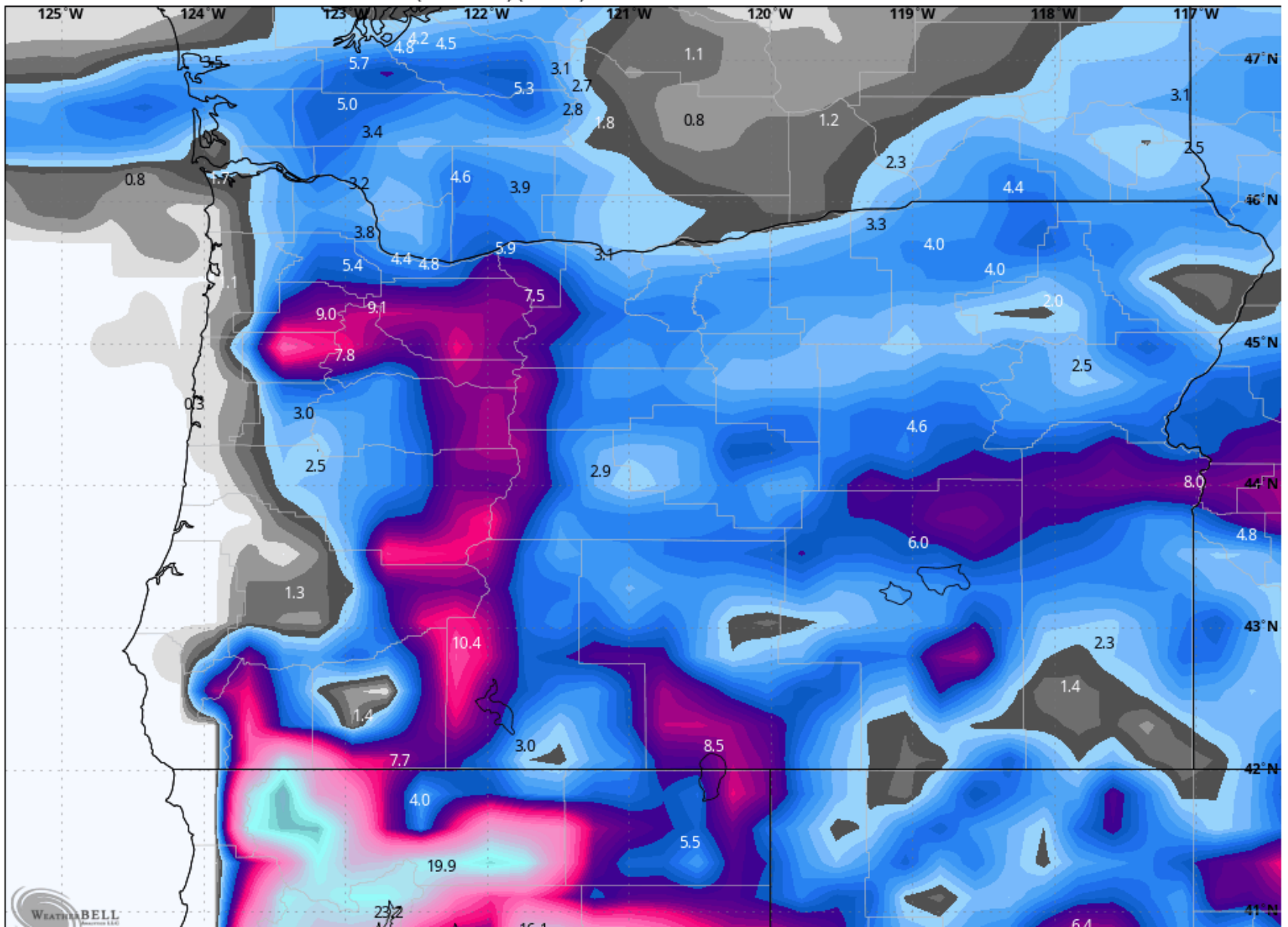
The “snowy” model forecasts



The “snowy” model forecasts

GFS 0.25° Init 00z 13 Feb 2025 • 48-hr Snow (10:1 Ratio) (Inches)

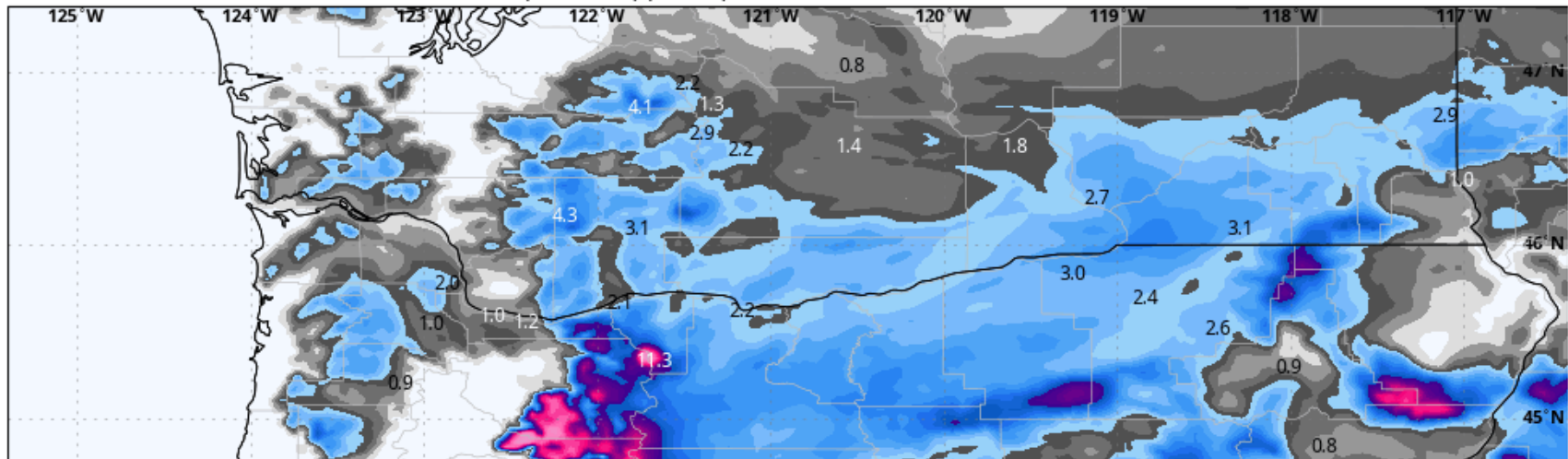
Hour: 48 • Valid: 00z Sat 15 Feb 2025



The “light snow” model forecasts

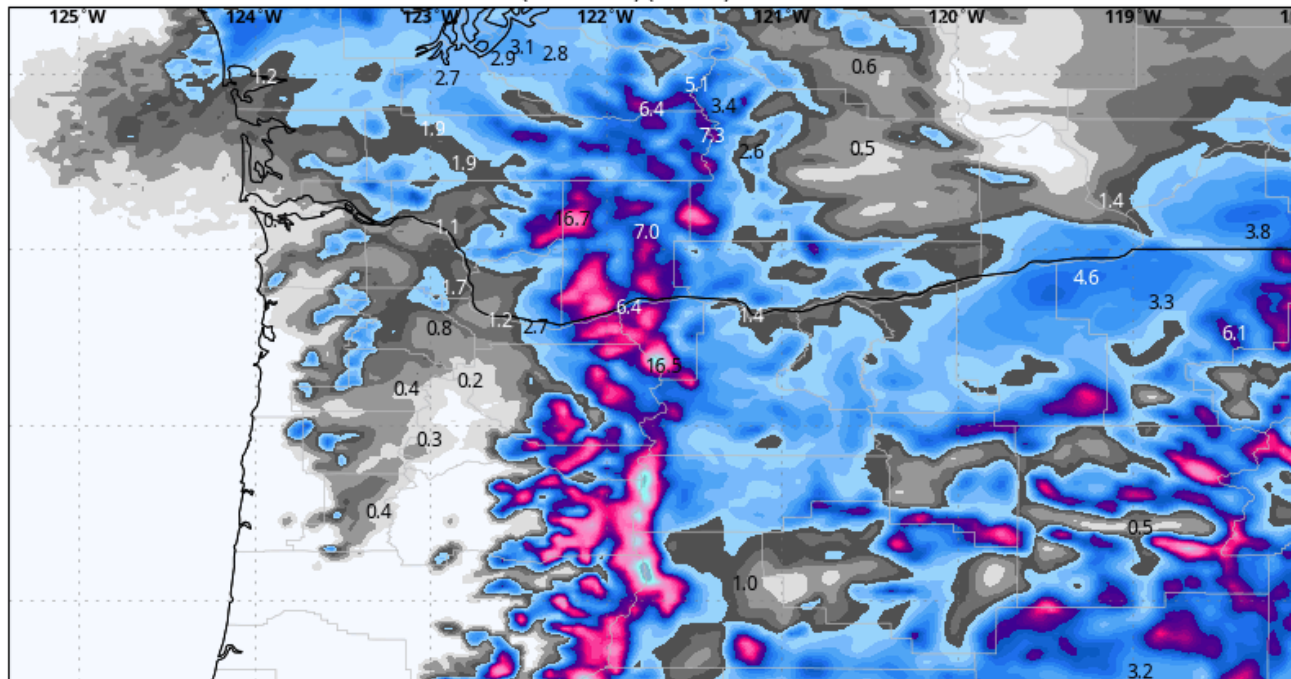
HRRR 3 km Init 00z 13 Feb 2025 • Total Snow (10:1 Ratio) (Inches)

Hour: 42 • Valid: 18z Fri 14 Feb 2025



NAM 3 km Init 00z 13 Feb 2025 • 48-hr Snow (10:1 Ratio) (Inches)

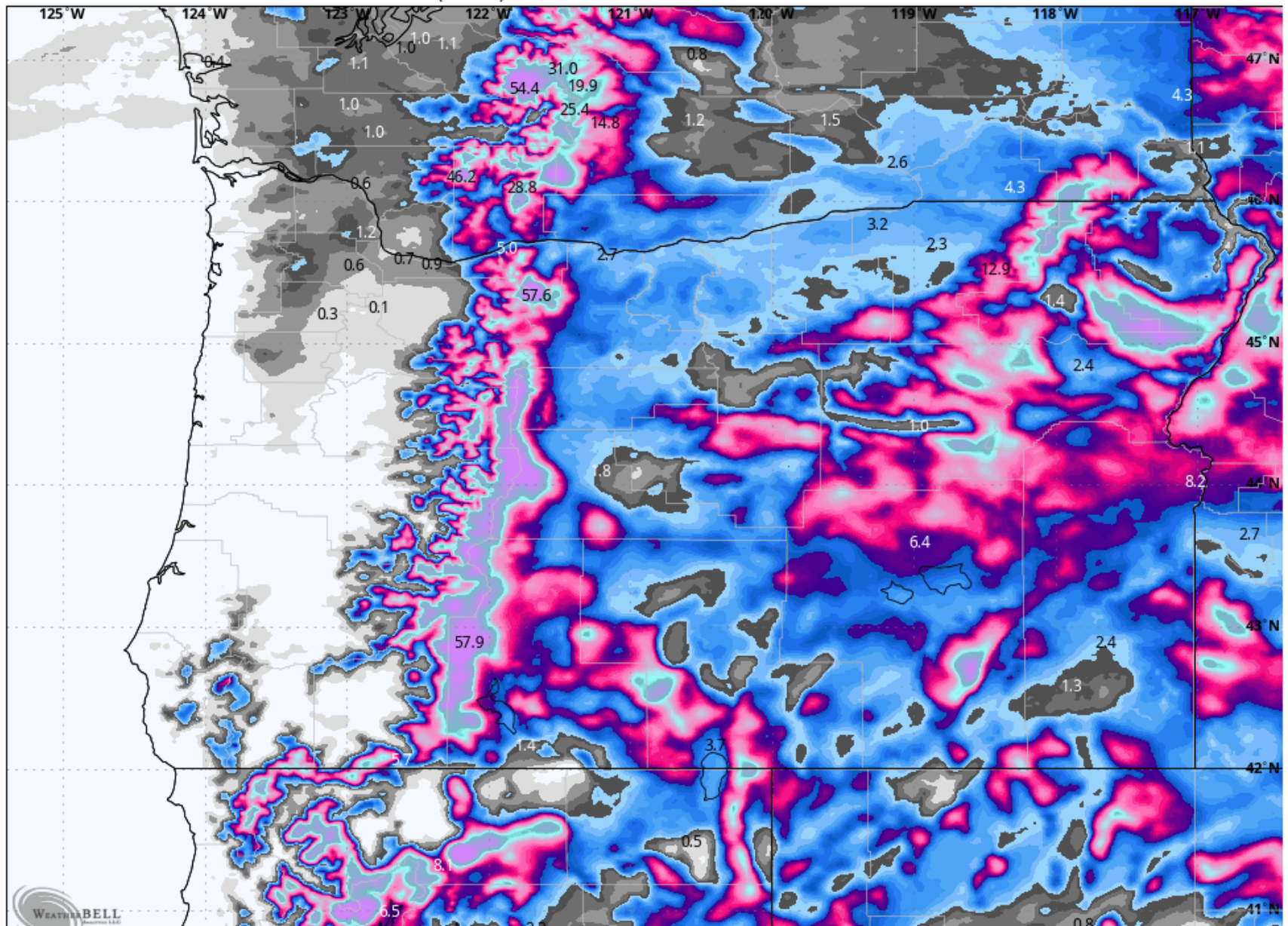
Hour: 48 • Valid: 00z Sat 15 Feb 2025



NBM snow forecast; well below other forecasts

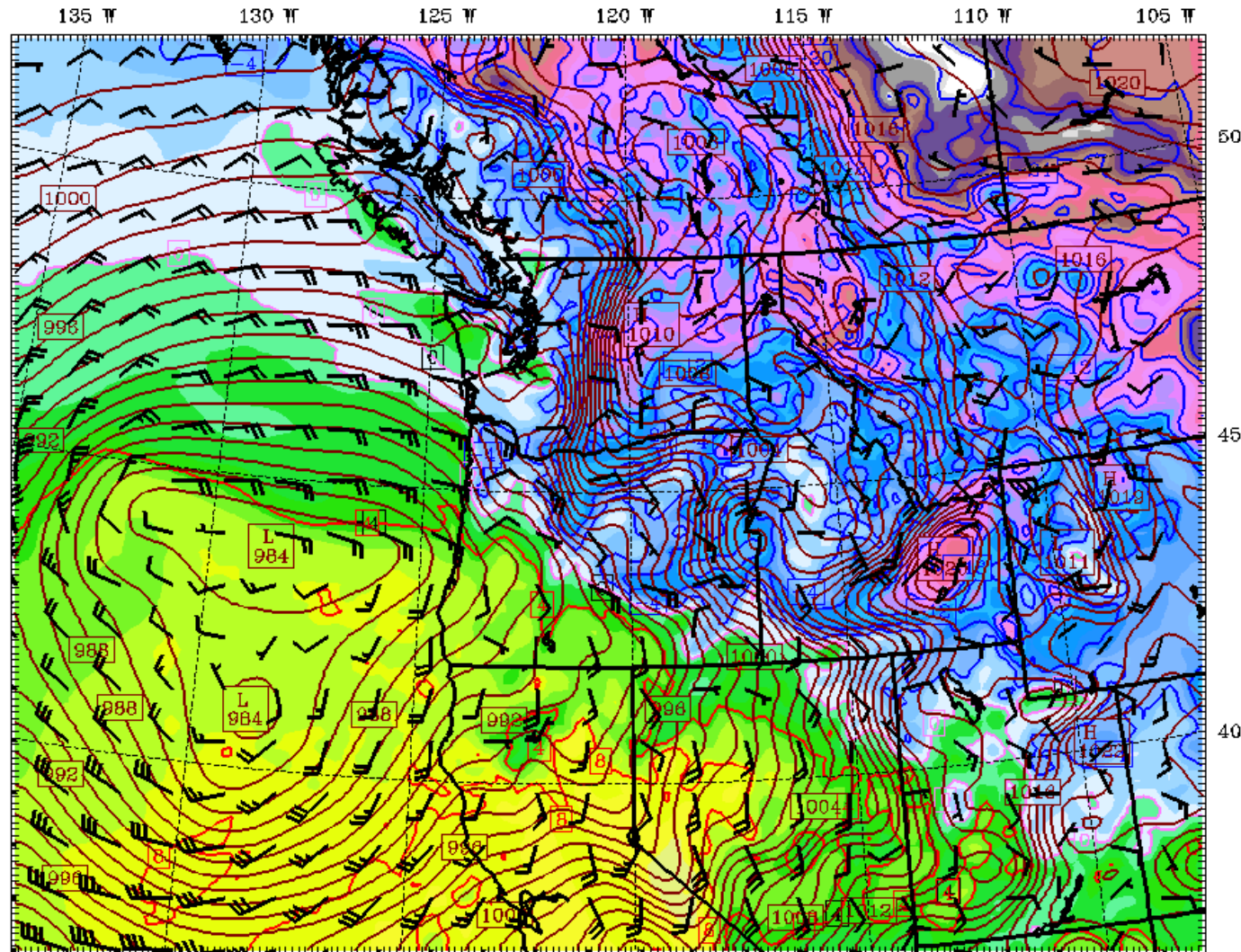
NBM 2.5 km Init 00z 13 Feb 2025 • Total Snow (Inches)

Hour: 216 • Valid: 00z Sat 22 Feb 2025



February 13th-14th snowfall

Wind at 10m (full barb = 10kts)



7 AM
THURS 13TH

Surface low
approaches
Oregon coast

Strong easterly
wind = cold/dry
air at surface

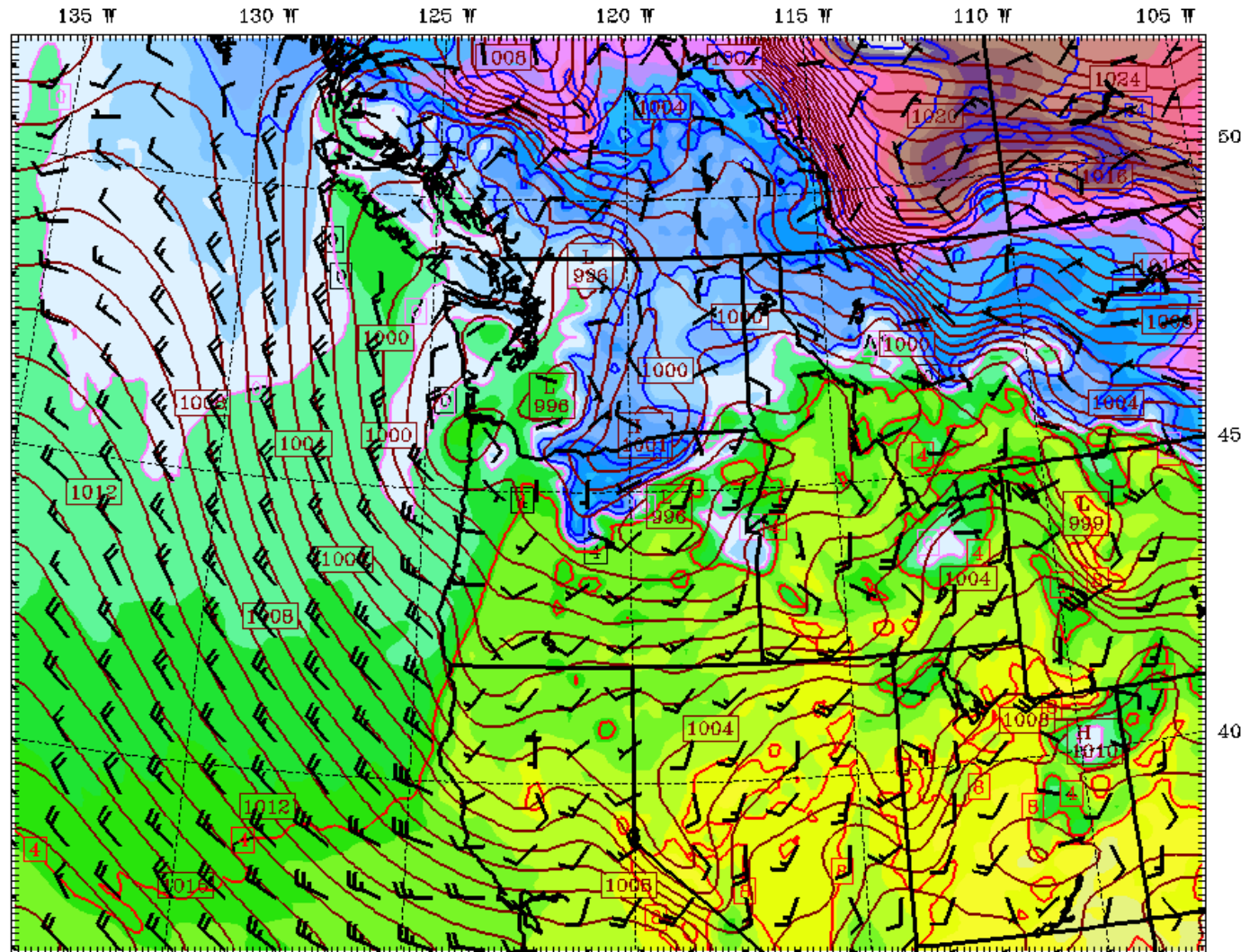
CONTOURS: UNITS=hPa LOW= 985.00 HIGH= 1021.0 INTERVAL= 1.0000
CONTOURS: UNITS=°C LOW= -32.000 HIGH= 8.0000 INTERVAL= 4.0000



Model Info: V4.1.3 G-D Ens YSU PBL Thompson Noah-MP 12 km, 37 levels, 72 sec
LW: RRTMG SW: RRTMG DIFF: full KM: 2D Smagor

February 13th-14th snowfall

Wind at 10m (full barb = 10kts)



18 hours
later

1 AM
FRI 14TH

Surface low
falling apart

Cold easterlies
dying quickly

CONTOURS: UNITS=hPa LOW= 997.00 HIGH= 1025.0 INTERVAL= 1.0000
CONTOURS: UNITS=°C LOW= -32.000 HIGH= 12.000 INTERVAL= 4.0000



Model Info: V4.1.3 G-D Ens YSU PBL Thompson Noah-MP 12 km, 37 levels, 72 sec
LW: RRTMG SW: RRTMG DIFF: full KM: 2D Smagor

Minor “windstorm” February 24th

983 mb low tracks to NW tip of Washington

UW WRF-GFS 12km Domain

Fcst: 16 h

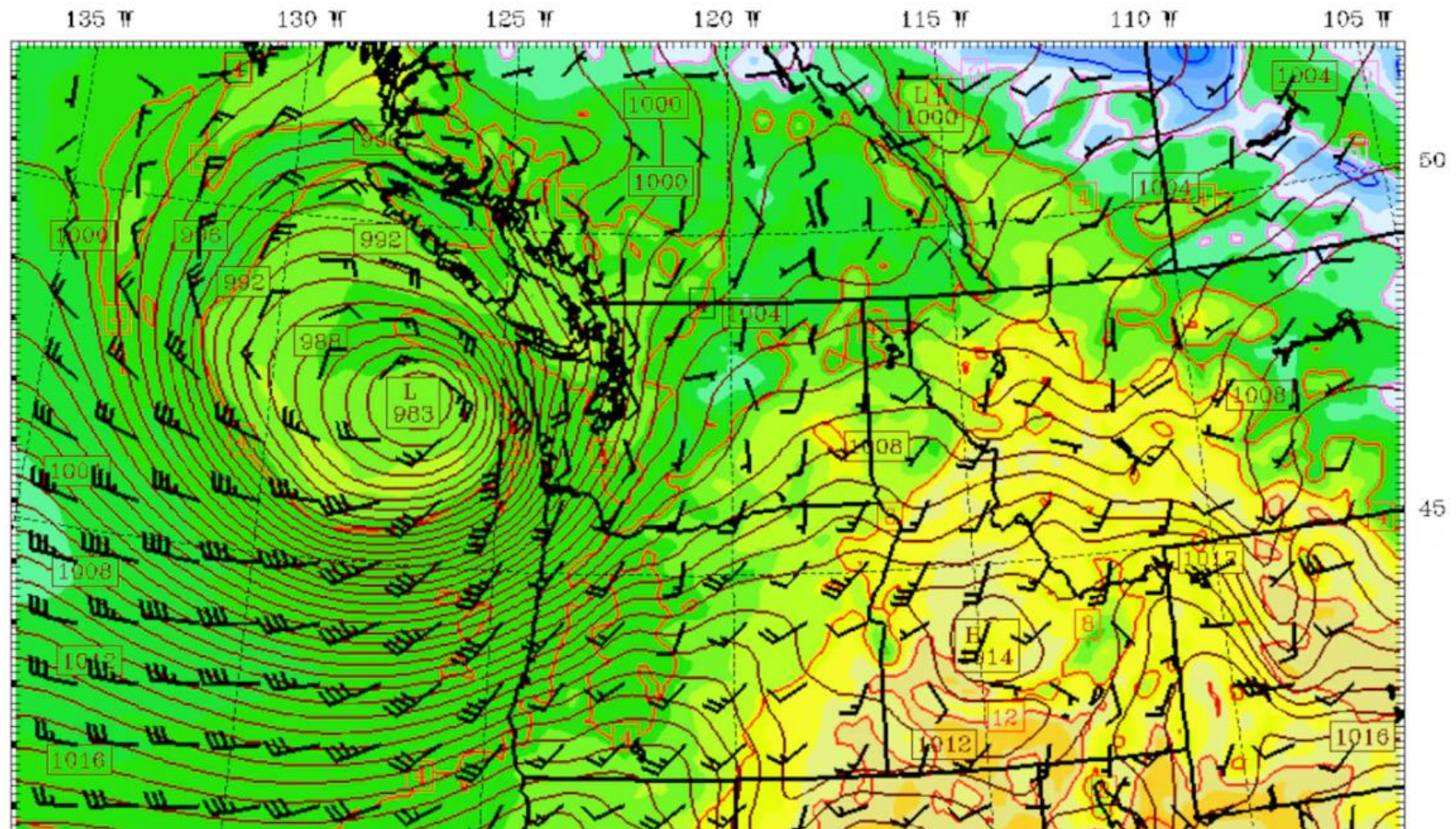
Init: 12 UTC Mon 24 Feb 25

Valid: 04 UTC Tue 25 Feb 25 (20 PST Mon 24 Feb 25)

Temperature at 925 mb (°C)

Sea Level Pressure (hPa)

Wind at 10m (full barb = 10kts)



Minor “windstorm” February 24th

983 mb low tracks to NW tip of Washington

UW WRF-GFS 12km Domain

Fest: 22 h

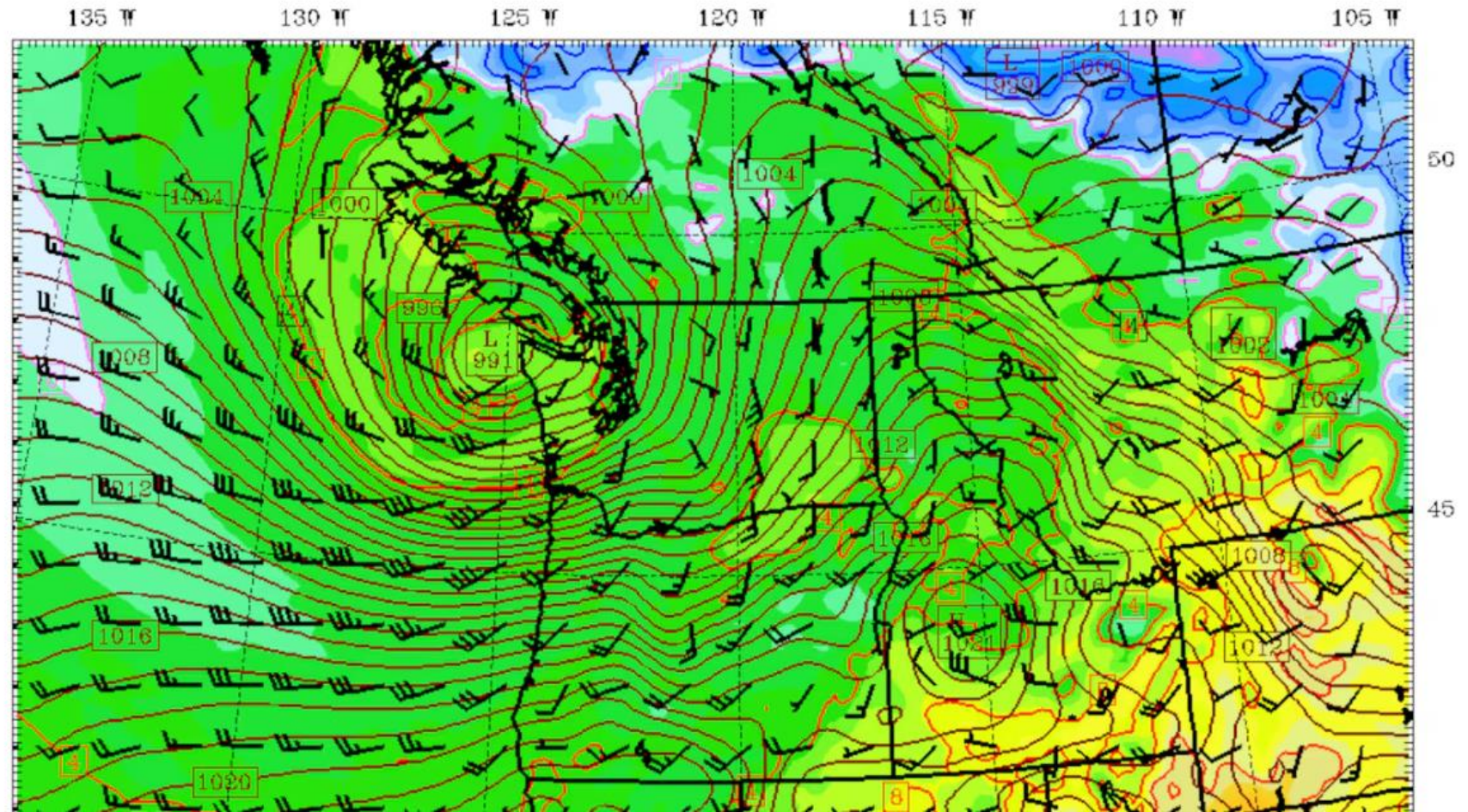
Init: 12 UTC Mon 24 Feb 25

Valid: 10 UTC Tue 25 Feb 25 (02 PST Tue 25 Feb 25)

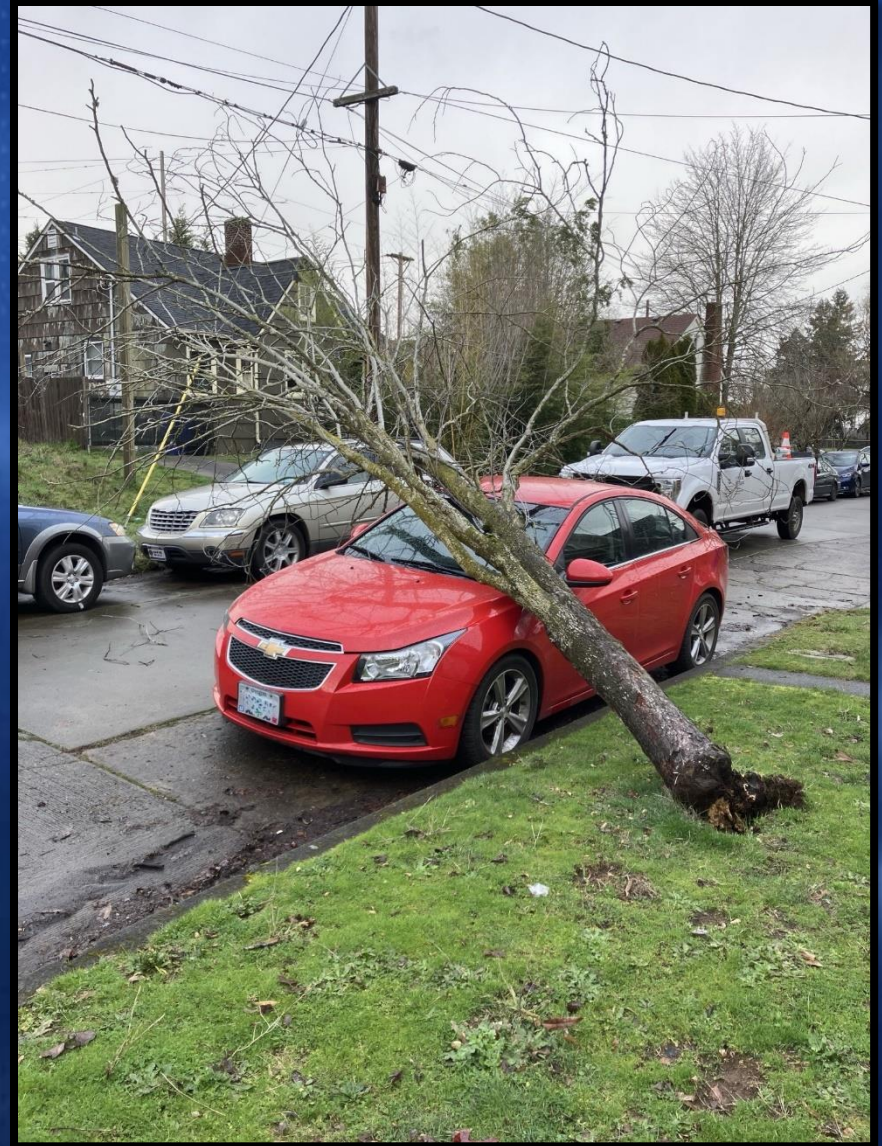
Temperature at 925 mb (°C)

Sea Level Pressure (hPa)

Wind at 10m (full barb = 10kts)



Over 80,000 outages for PGE



FIRST ALERT PEAK WIND GUSTS

METRO AND VALLEYS

PDX AIRPORT	52 MPH
HILLSBORO	54 MPH
SCAPPOOSE	52 MPH
TROUTDALE	49 MPH
MCMINNVILLE	52 MPH
SALEM	45 MPH



FIRST ALERT PEAK WIND GUSTS

ALONG THE OREGON COAST

CAPE DISAPPOINTMENT	88 MPH
ASTORIA BRIDGE	68 MPH
TILLAMOOK	62 MPH
PACIFIC CITY	63 MPH
NEWPORT BRIDGE	74 MPH
CLATSOP SPIT	88 MPH

Was it “false” or “early” spring?

Thursday February 27th

FIRST ALERT HIGHS TODAY

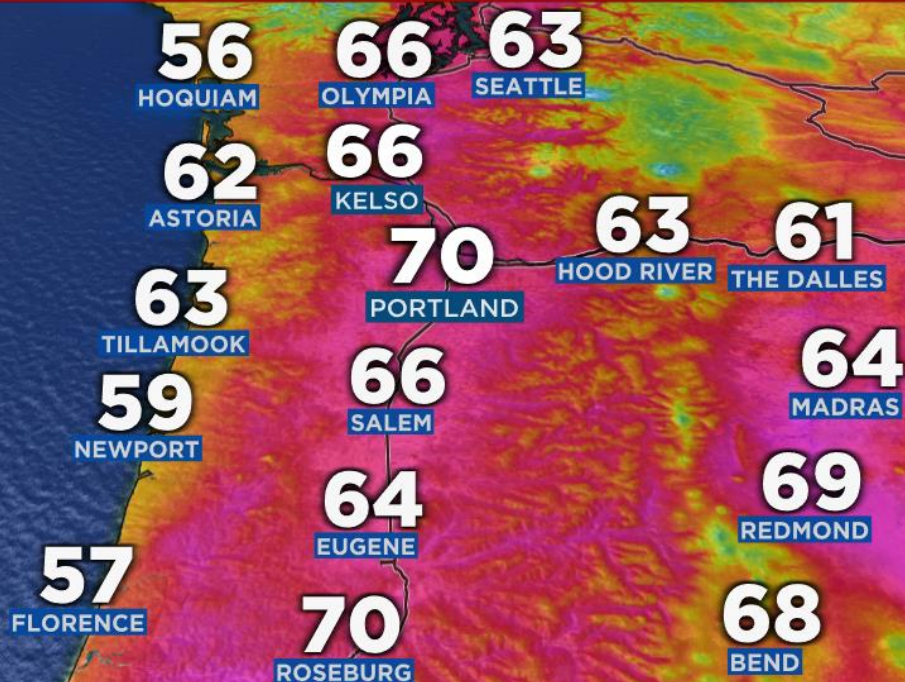
PORTLAND

54°

AVERAGE HIGH

67° / 1968

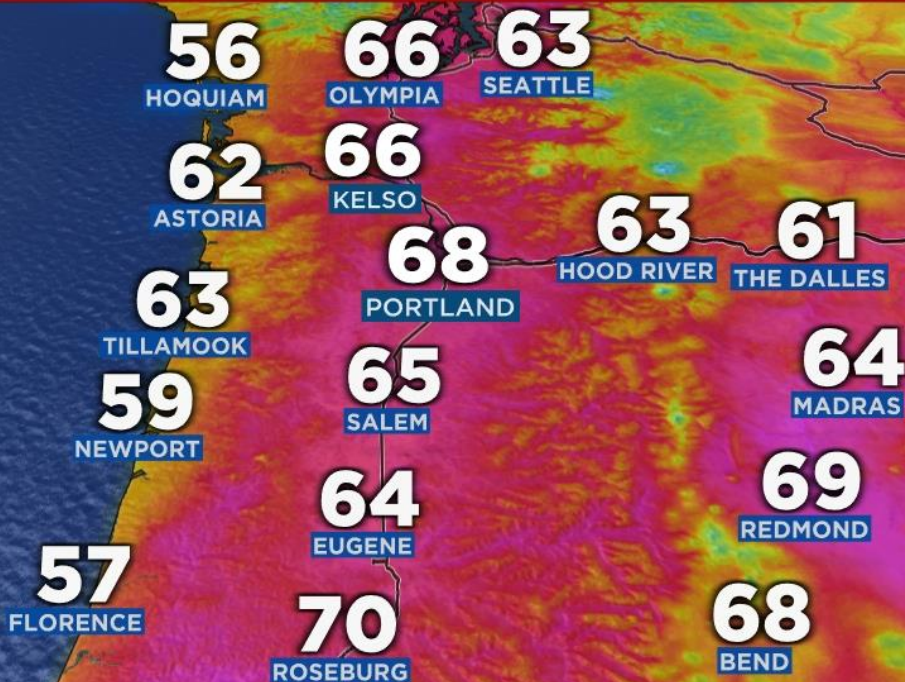
RECORD HIGH



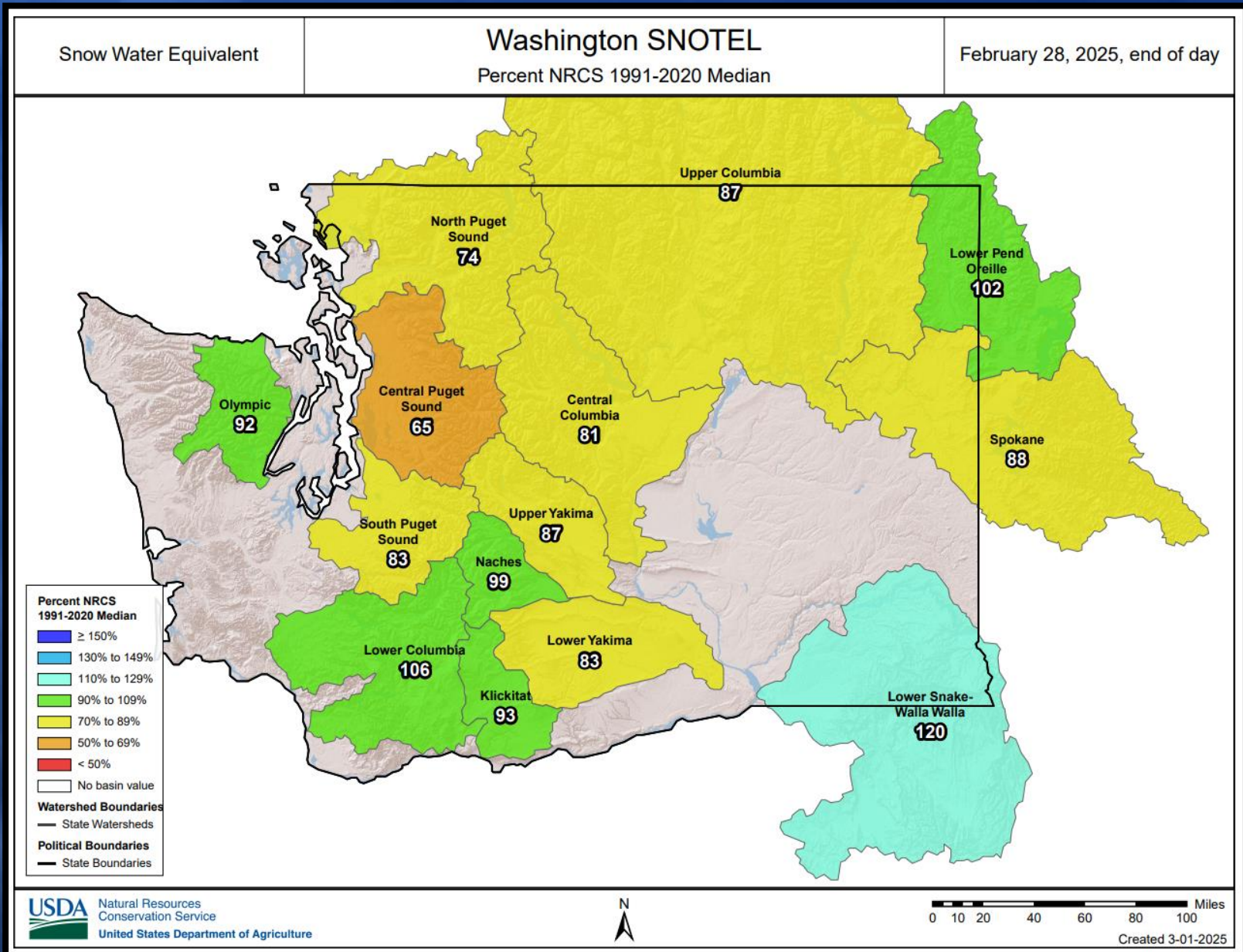
Was it “false” or “early” spring?

Friday February 28th

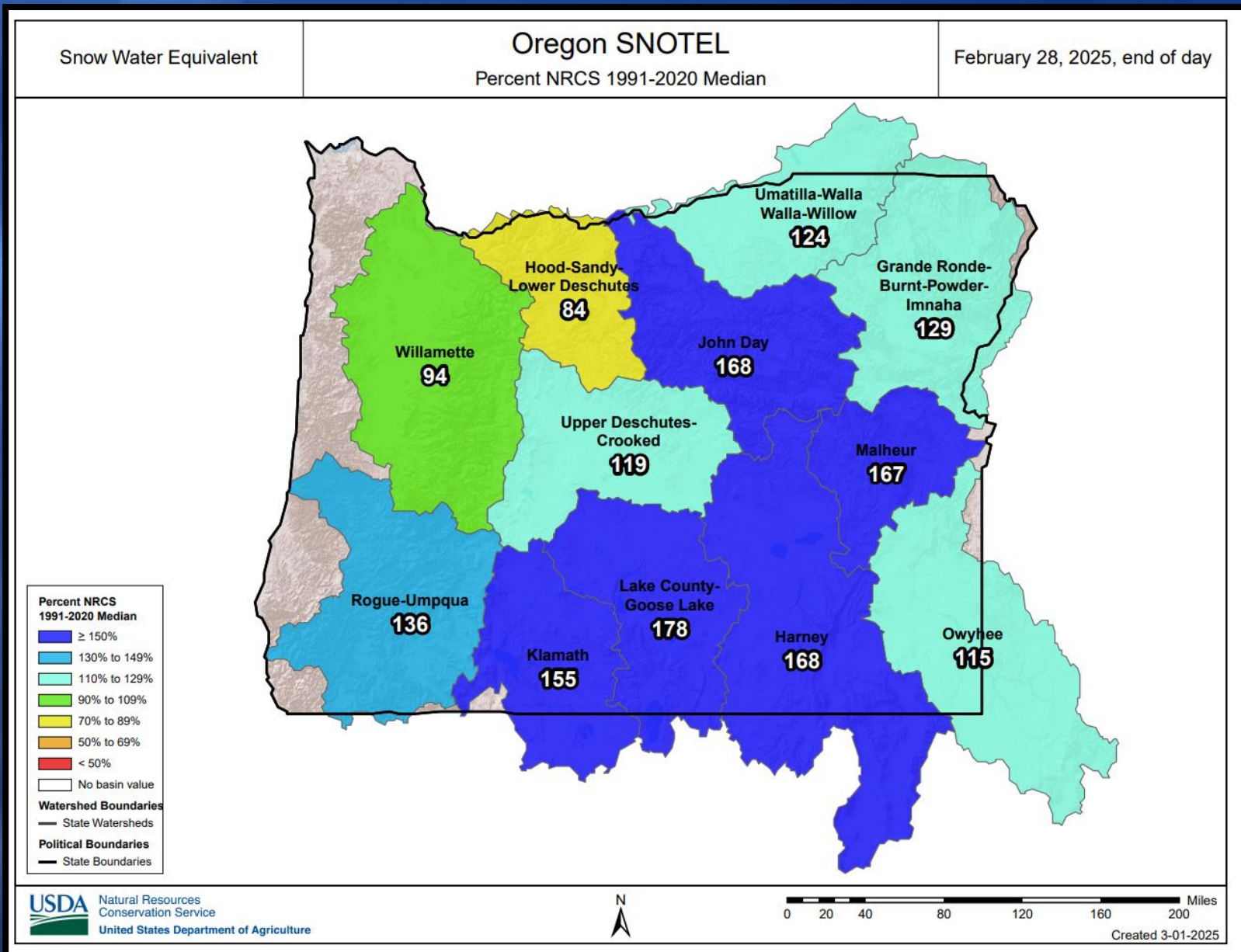
FIRST ALERT HIGHS TODAY



LATE FEBRUARY... STILL BELOW-AVG SNOWPACK WASHINGTON



LATE FEBRUARY... SNOWPACK OREGON LOOKING GOOD

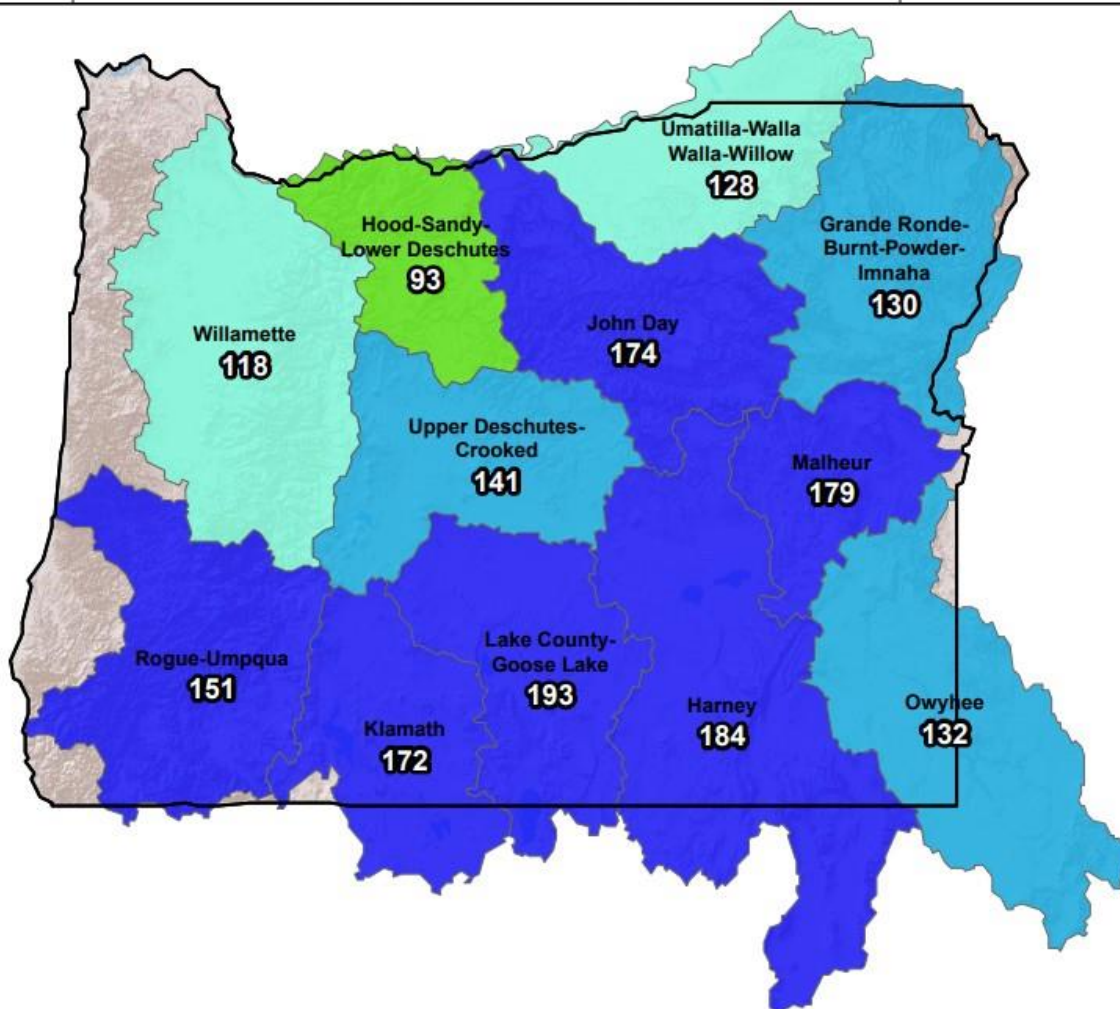


MID-MARCH BIG IMPROVEMENT COMPARED TO LATE JANUARY

Snow Water Equivalent

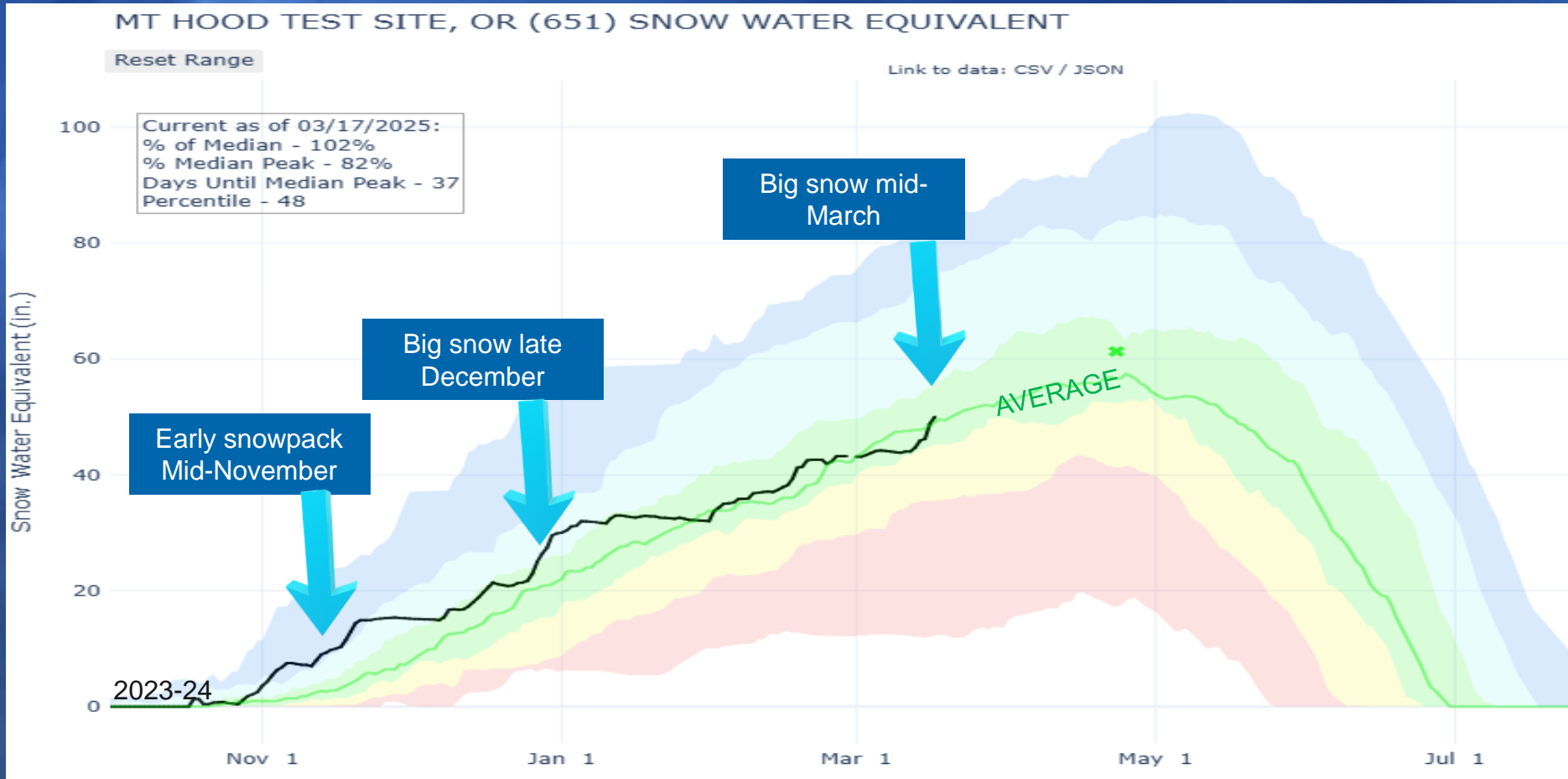
Oregon SNOTEL
Percent NRCS 1991-2020 Median

March 18, 2025, end of day

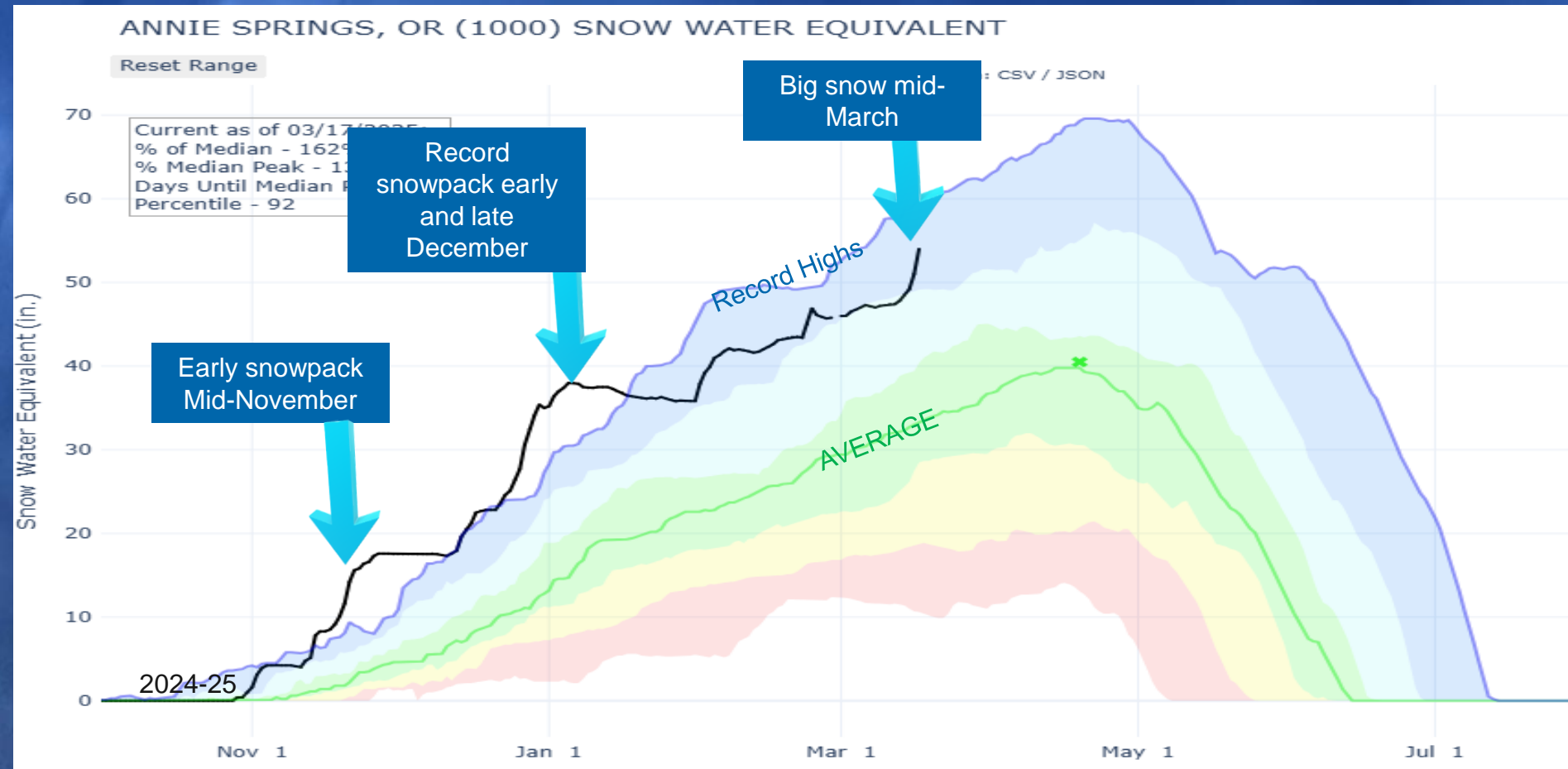


Mountain Snowpack @ 5,400'

Bottom of Pucci Lift @Timberline



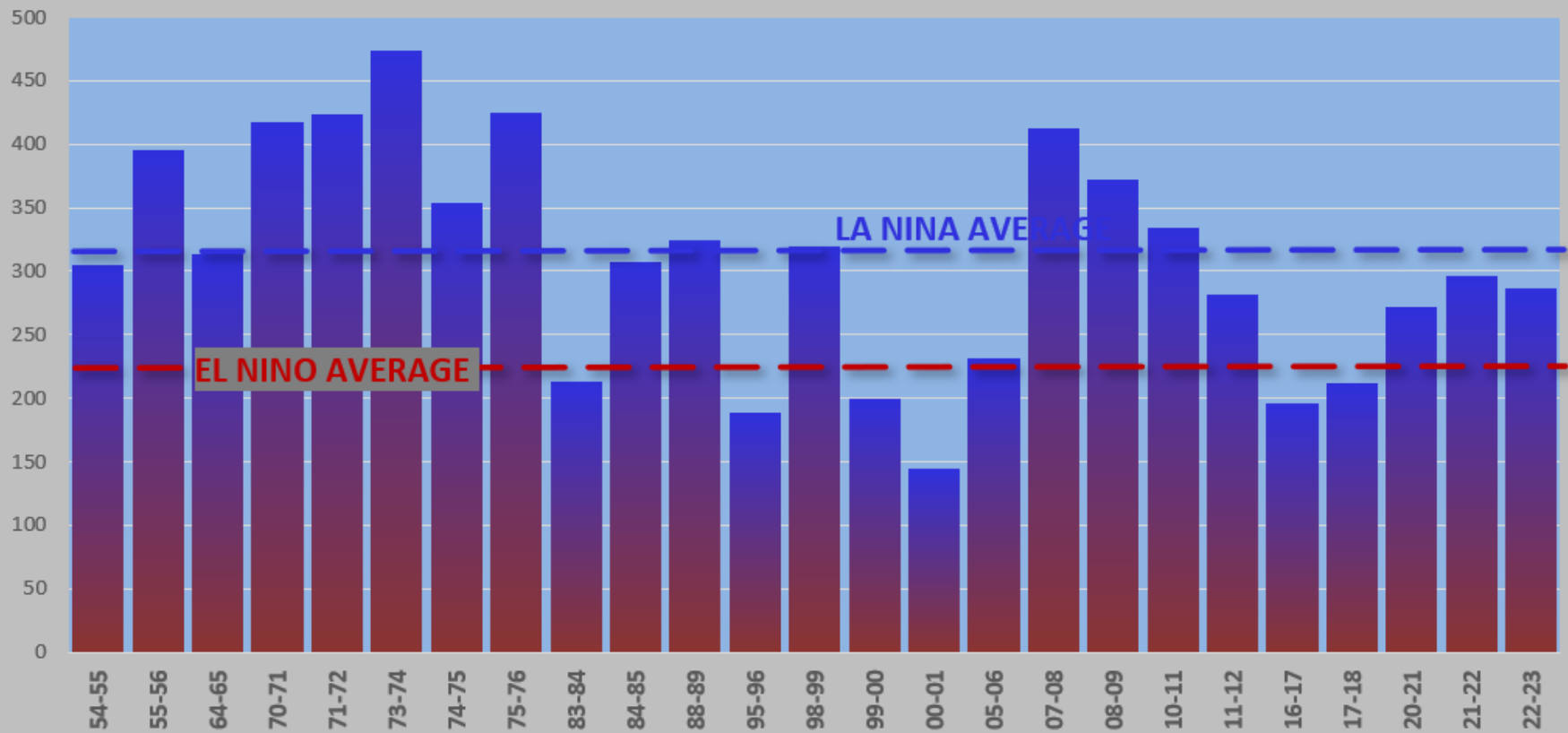
Crater Lake Snowpack @ 6,000'



Cascade Snowfall

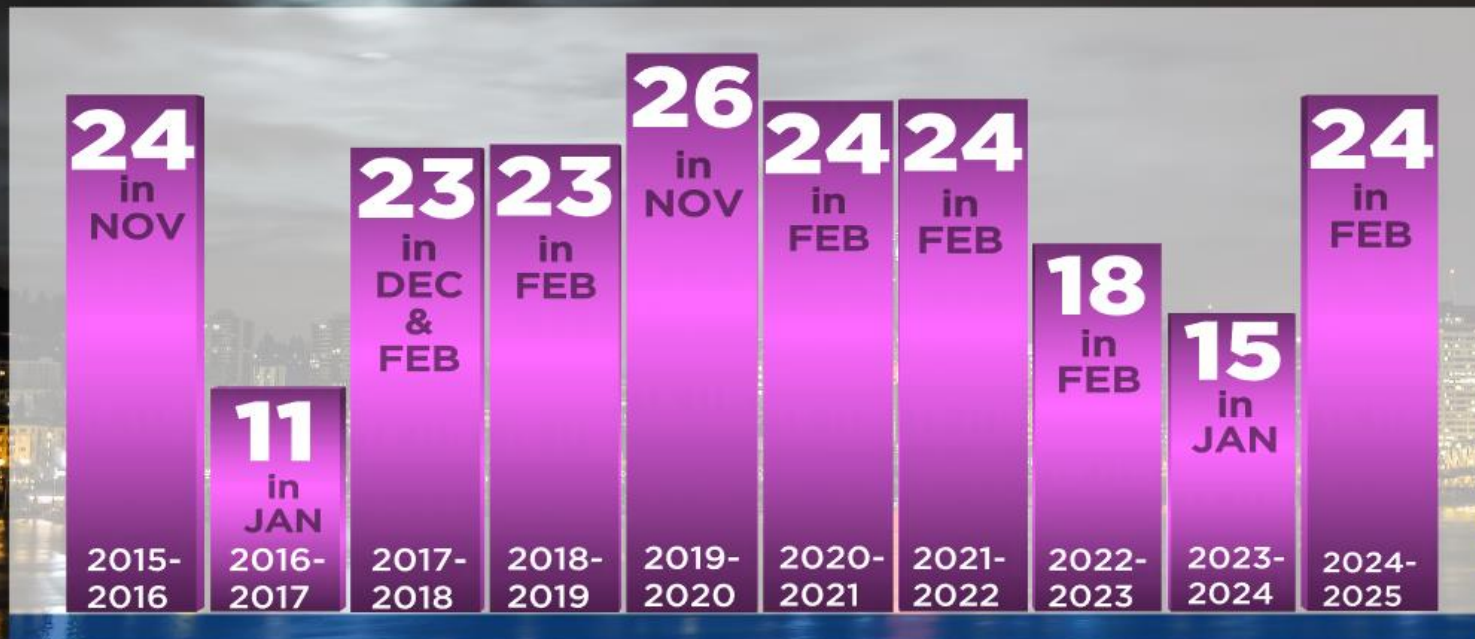
1. Big storm mid-November gets ski areas operating
2. Not much snow below 2,500' NW OR, low snowpack low elevations
3. Long dry/sunny period in late January = getting concerned!
4. All good rest of season, HUGE snowpack in S/SE Oregon

Government Camp Snowfall
During **La Nina Winters** (25 since 1951)



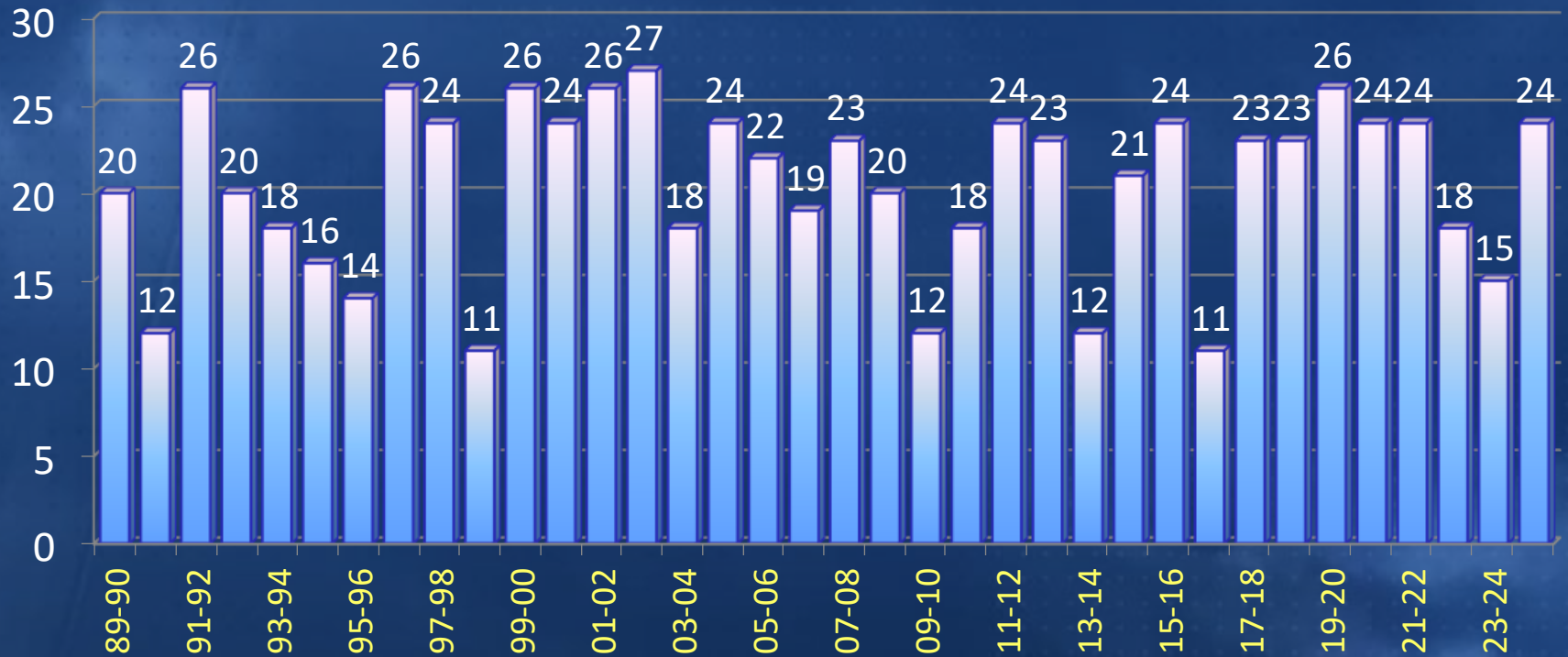
FIRST ALERT COLDEST WINTER TEMPERATURE

IN PORTLAND



Easy winter for our gardens!

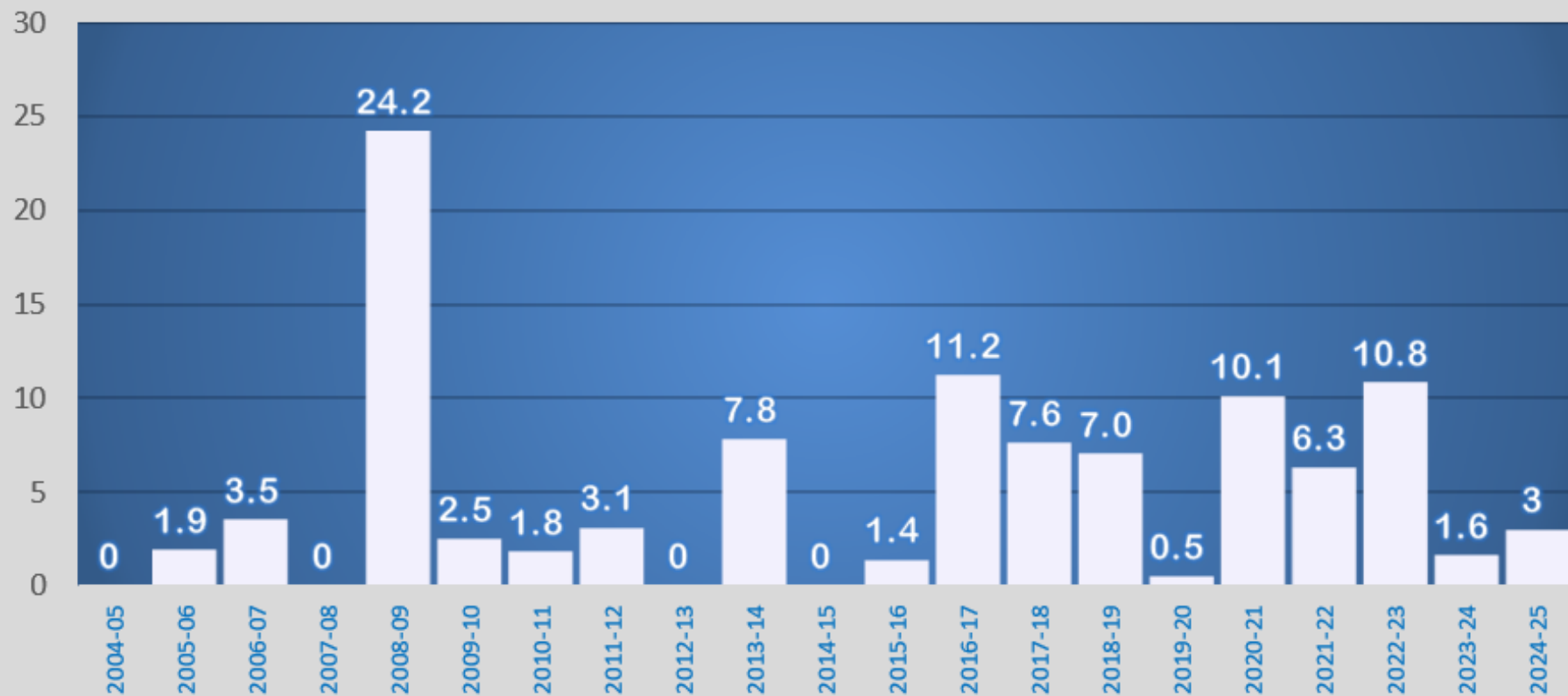
Winter Minimum Temperature @PDX



Coldest Daytime High at PDX

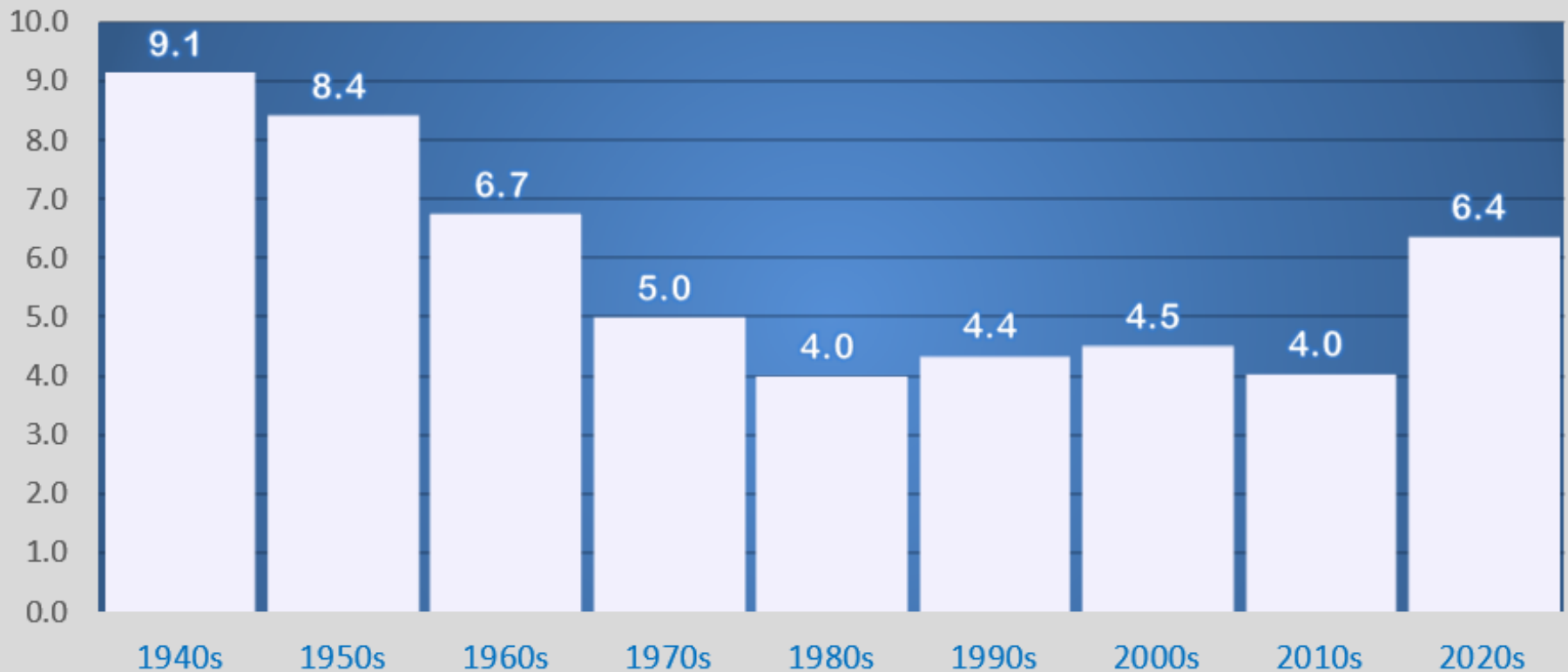


PORTLAND (NWS-PARKROSE)
SNOWFALL THE LAST 20 WINTERS (inches)



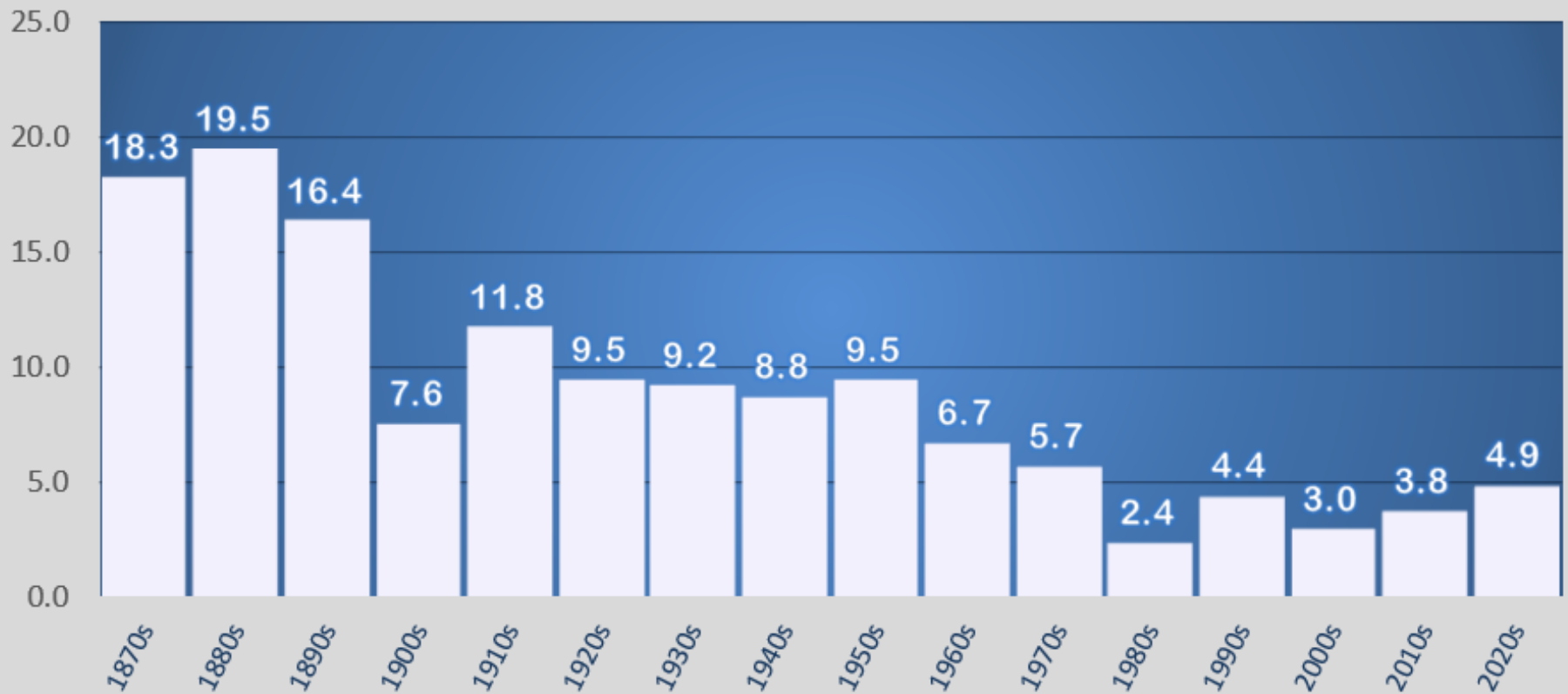
OFFICIAL PORTLAND SNOWFALL

Average per winter in inches (Portland Airport & NWS Office)



DOWNTOWN PORTLAND SNOWFALL

Average per winter in inches

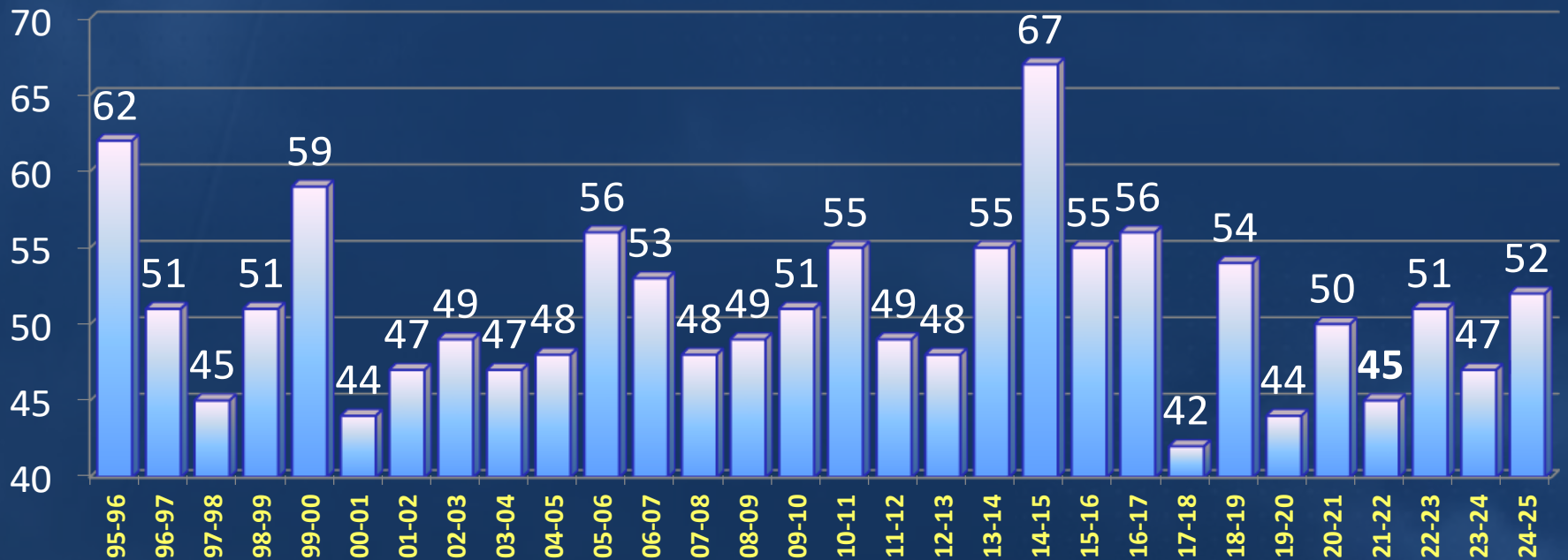


NO INLAND WIND STORMS

30 winters without a major REGIONAL storm

Yearly Peak Wind Gust at PDX in MPH

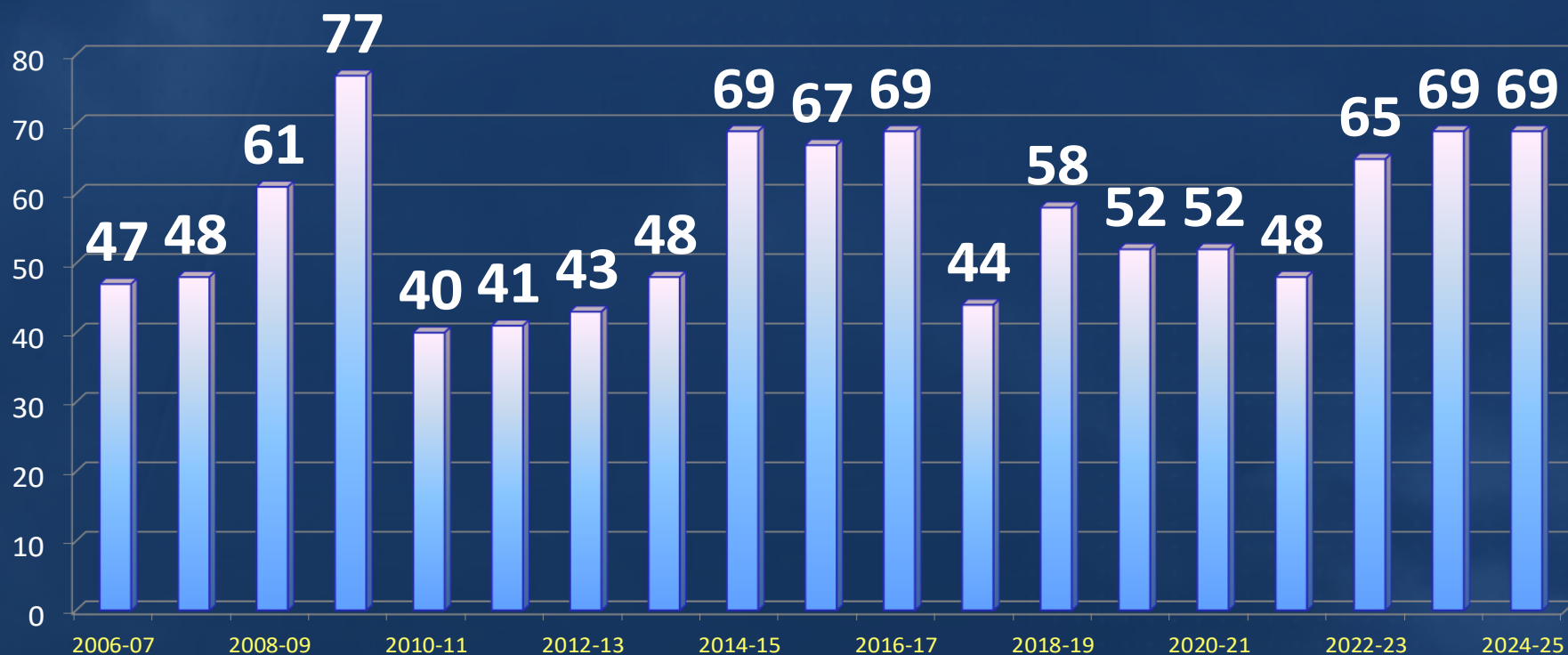
(Generally southerly)



LOTS OF EAST WIND











Plenty of east wind days, but not many extreme (50+)

Days with peak easterly gusts 25+ mph at Troutdale (Nov-Feb)



TANIS LEACH SCORECARD

2024-25 Scorecard

Predictions	Actual/Projected	Oct	Dec
Water Year Rain: PDX" 39.9"+ (Dec: 39.7"+) EUG: 44.2"+	Trendcast PDX (March 14 th): 38.83" Trendcast EUG (March 14 th): 45.35"	Too close to call	Too close to call
Average Temperature Departure: At least 0.6°F below average	0.56°F Above Average (PDX) -0.18°F Below Average (EUG)		
Lowest Winter Temperature: <20°F	24°F (PDX), 20°F? (EUG) Teens recorded in HIO, CVO, SPB		
Peak Wind Gust: 53 mph+ (equivalent for EUG is 50 mph+) Alt: Big event that misses PDX but hits PNW	52 MPH twice (PDX) 51 MPH (EUG) N. Coast big storms (70 mph+) Dec 26 th , Feb 24 th plus Puget Sound Bomb Cyclone		
Most Active Time: Jan 1 st to Feb 15 th (October) or Feb 29 th (December)	Feb 2 nd to Feb 14 th		
April 1 st Snow Depth: 115%+ of normal	March 14 th : 76% Basin, 96% test site, with 2-5 feet of snow on the way.	TBD	TBD
Valley Snowfall: 6" or more	Portland: 3 in. Eugene: 1 in. All Valley Average (Population Weighted): 3.06"		

FINAL WINTER THOUGHTS

A sort of MEH winter; mild and somewhat dull

In the future when we look back? Nothing that interesting...

We are “due” for a ~~snowless winter, major windstorm, and widespread flood~~