

Holiday Week Heat Briefing

Weather Forecast Office

Hanford, CA

Saturday, June 29

Presenter: Antoinette Serrato





Key Points

Weather Forecast Office
Hanford, CA
Saturday, June 29

- **Warming continues this weekend, before a dangerous, long-duration heat wave hits the central valley of California through the holiday week and into next weekend.**
- **An Excessive Heat Warning has been issued for Tuesday July 2nd through Saturday July 6th, and may need to be extended through next weekend as the event nears.**
- **The risk of grass fires will continue to increase with herbaceous fuel loading at or near 120% of normal. A long period of excessive heat, minimum relative humidities near 15% and poor overnight relative humidity recovery continues.**
- **During the middle and late next week, a 15%-20% chance of thunderstorms will reside across the high Sierra in Fresno County north to Yosemite.**



nws.hanford@noaa.gov



(559) 584-9051

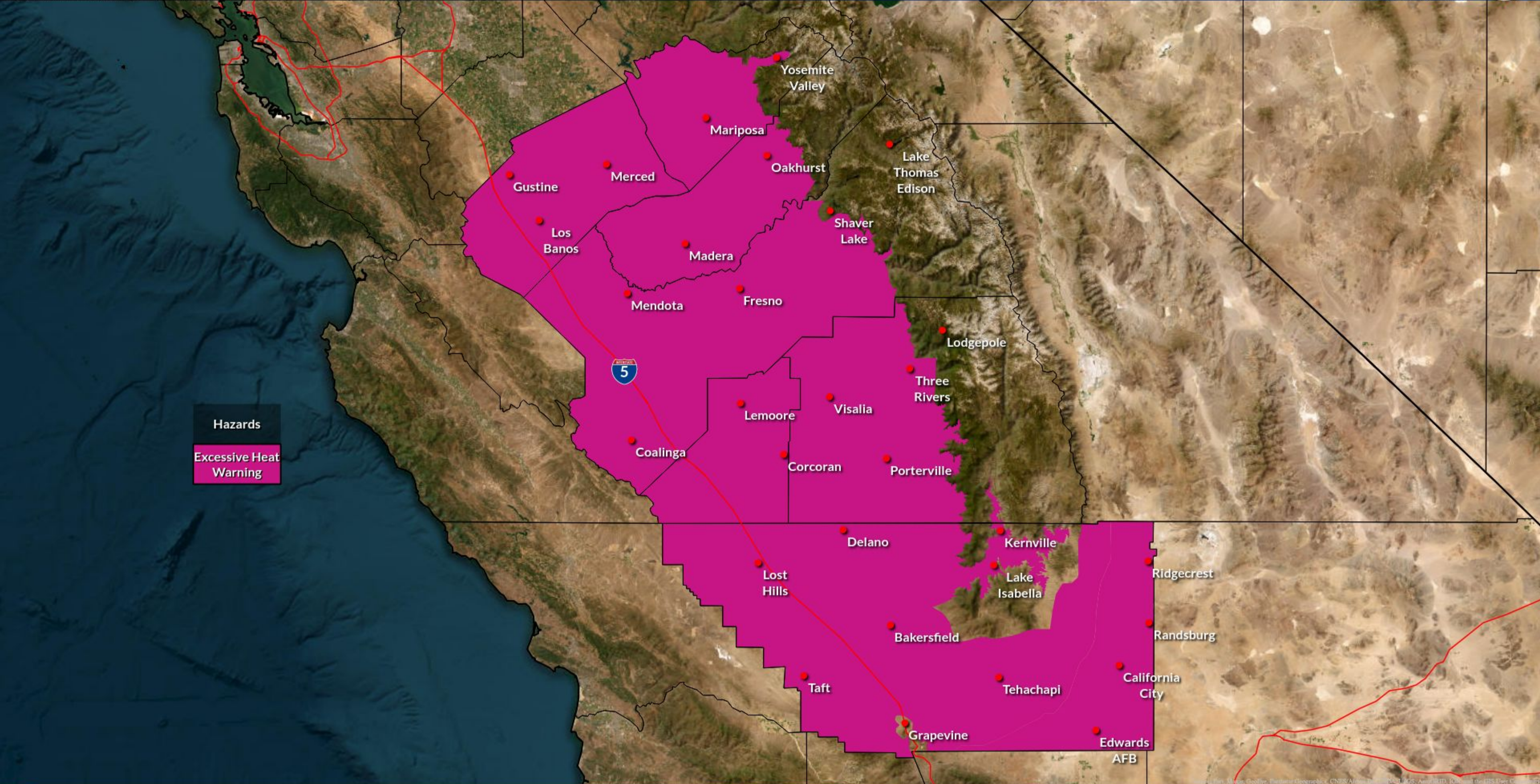


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Excessive Heat Warning

Valid from 11 AM PDT Tuesday, July 2 until 8 PM PDT Saturday, July 6



Hazards

Excessive Heat Warning

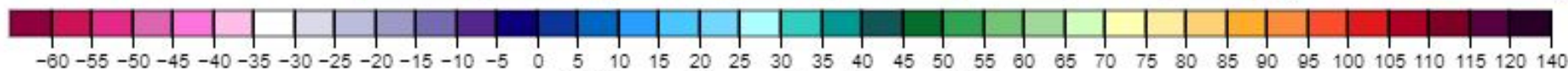


Temperature Forecast

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Hanford, CA
Saturday, June 29

Minimum Temperature Forecast (°F)

	6/29 Sat	6/30 Sun	7/1 Mon	7/2 Tue	7/3 Wed	7/4 Thu	7/5 Fri	7/6 Sat	Minimum
Bakersfield	71	72	73	75	78	78	78	79	71
Catheys Valley	67	67	67	71	75	74	74	76	67
Clovis	68	69	69	73	75	76	76	76	68
Delano	64	65	67	68	71	72	72	73	64
El Portal	68	68	69	72	75	76	76	78	68
Fresno	69	70	70	73	75	76	76	77	69
Hanford	66	69	69	72	73	75	75	75	66
Madera	64	65	65	70	72	73	73	73	64
Mariposa	65	65	65	68	72	71	71	74	65
Merced	64	65	65	69	72	72	72	72	64
Porterville	68	69	70	73	76	75	75	77	68
Tehachapi	57	58	59	60	64	66	66	67	57
Tulare	65	68	69	71	73	74	74	75	65
Visalia	67	69	70	73	75	75	75	76	67

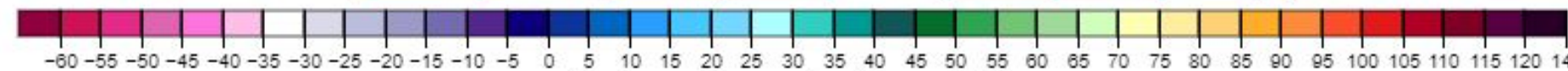


Minimum Temperature Forecast (°F)

Created: 3 am PDT Sat 6/29/2024 | Values are minimums over the period beginning at the time shown.

Maximum Temperature Forecast (°F)

	6/29 Sat	6/30 Sun	7/1 Mon	7/2 Tue	7/3 Wed	7/4 Thu	7/5 Fri	7/6 Sat	Maximum
Bakersfield	101	101	101	106	110	108	108	110	110
Catheys Valley	94	93	95	100	104	102	102	104	104
Clovis	100	99	101	105	110	108	108	110	110
Delano	101	100	100	105	109	108	108	110	110
El Portal	90	90	92	96	99	99	100	101	101
Fresno	100	99	101	104	109	107	107	110	110
Hanford	100	99	100	104	109	107	107	110	110
Madera	99	98	100	104	108	107	106	109	109
Mariposa	93	92	94	98	102	102	101	103	103
Merced	98	98	101	104	109	106	106	108	109
Porterville	101	100	101	105	109	107	108	110	110
Tehachapi	87	87	87	93	95	92	94	96	96
Tulare	101	101	101	106	110	109	109	110	110
Visalia	101	100	101	106	110	108	108	110	110



Maximum Temperature Forecast (°F)

Created: 3 am PDT Sat 6/29/2024 | Values are maximums over the period beginning at the time shown.



Relative Humidity Forecast

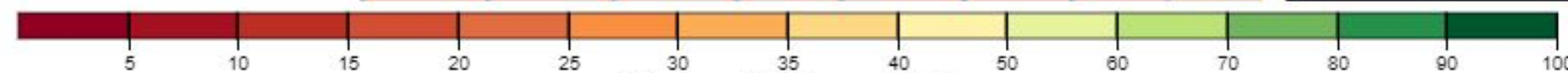
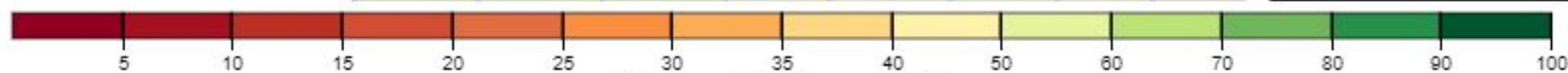
Weather Forecast Office
Hanford, CA
Saturday, June 29

Maximum RH Forecast (%)

Minimum RH Forecast (%)

	6/29 Sat	6/30 Sun	7/1 Mon	7/2 Tue	7/3 Wed	7/4 Thu	7/5 Fri	7/6 Sat	Maximum
Bakersfield	41	44	48	45	39	39	39	35	48
Catheys Valley	43	50	55	48	39	35	39	36	55
Clovis	57	59	59	53	46	43	39	39	59
Delano	54	58	63	57	55	49	49	44	63
El Portal	37	41	42	38	33	29	28	28	42
Fresno	55	57	57	53	46	43	39	36	57
Hanford	61	61	63	59	53	50	45	41	63
Madera	65	68	67	59	50	46	41	41	68
Mariposa	48	53	56	52	42	39	42	39	56
Merced	67	68	68	57	51	46	44	42	68
Porterville	51	55	57	53	45	43	46	43	57
Tehachapi	53	53	63	56	49	47	45	40	63
Tulare	63	65	68	66	55	53	51	48	68
Visalia	61	63	66	59	52	50	50	46	66

	6/29 Sat	6/30 Sun	7/1 Mon	7/2 Tue	7/3 Wed	7/4 Thu	7/5 Fri	7/6 Sat	Minimum
Bakersfield	17	19	19	16	15	15	14	26	14
Catheys Valley	20	24	23	19	15	16	16	31	15
Clovis	17	20	18	17	14	14	15	28	14
Delano	19	22	21	18	16	16	16	34	16
El Portal	23	29	27	23	18	19	20	25	18
Fresno	18	21	20	18	15	15	16	29	15
Hanford	21	24	23	19	17	18	17	34	17
Madera	17	22	19	17	14	15	15	32	14
Mariposa	21	26	25	21	17	17	18	34	17
Merced	19	23	20	17	14	16	16	30	14
Porterville	19	23	23	19	17	18	18	34	17
Tehachapi	18	20	21	17	17	19	18	32	17
Tulare	20	23	22	19	16	17	16	36	16
Visalia	20	24	23	20	18	18	18	37	18



Created: 3 am PDT Sat 6/29/2024 | Values are maximums over the period beginning at the time shown.

Created: 3 am PDT Sat 6/29/2024 | Values are minimums over the period beginning at the time shown.



Probability for Temperatures Greater than 105



Chance of Temperatures Greater Than 105°F

Saturday Afternoon, Jun 29 - Saturday Afternoon, Jul 6

	Sat 6/29	Sun 6/30	Mon 7/1	Tue 7/2	Wed 7/3	Thu 7/4	Fri 7/5	Sat 7/6
Bakersfield	4%	0%	0%	25%	80%	70%	55%	75%
Coalinga	0%	0%	1%	15%	55%	45%	45%	55%
Fresno	0%	0%	0%	30%	75%	60%	55%	75%
Hanford	1%	0%	1%	25%	70%	60%	45%	65%
Madera	0%	0%	0%	20%	70%	55%	45%	55%
Merced	0%	0%	0%	30%	70%	45%	40%	45%
Oakhurst	0%	0%	0%	0%	20%	15%	20%	25%
Ridgecrest	30%	30%	60%	80%	95%	97%	90%	95%
Visalia	4%	0%	4%	60%	85%	75%	60%	75%

Percent Chance (%)

Additional Details

⚠️ Potential Impacts:

- Risk of heat-related illnesses for the entire population. This is a prolonged heat event that is very dangerous.

💡 What To Do:

- Drink plenty of water or sports drink
- Wear lightweight, light-colored clothing
- Cancel outdoor activities during the heat of the day
- Use air conditioning and remain in cool places during the day

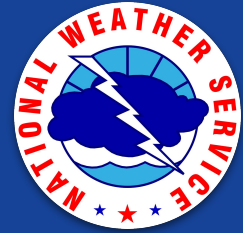
📄 Information:

The table displays the percent chance of a weather event occurring based on model predictions from the National Blend of Models. A higher number means greater certainty.

Valid: Sat 05 pm PDT - Sat 05 pm PDT

Issued: Sat, Jun 29, 2024, 3 am PDT





Probability for Temperatures Greater than 110



Chance of Temperatures Greater Than 110°F

Saturday Afternoon, Jun 29 - Saturday Afternoon, Jul 6

	Sat 6/29	Sun 6/30	Mon 7/1	Tue 7/2	Wed 7/3	Thu 7/4	Fri 7/5	Sat 7/6
Bakersfield	0%	0%	0%	0%	30%	10%	10%	35%
Coalinga	0%	0%	0%	0%	10%	5%	10%	20%
Fresno	0%	0%	0%	1%	35%	20%	15%	35%
Hanford	0%	0%	0%	2%	30%	20%	15%	30%
Madera	0%	0%	0%	0%	30%	10%	10%	20%
Merced	0%	0%	0%	1%	30%	5%	10%	15%
Oakhurst	0%	0%	0%	0%	1%	1%	2%	4%
Ridgecrest	1%	1%	5%	15%	60%	50%	60%	65%
Visalia	0%	0%	0%	5%	50%	35%	20%	35%

Percent Chance (%)

Additional Details

⚠️ Potential Impacts:

- Risk of heat-related illnesses for the entire population. This is a prolonged heat event that is very dangerous.

💡 What To Do:

- Drink plenty of water or sports drink
- Wear lightweight, light-colored clothing
- Cancel outdoor activities during the heat of the day
- Use air conditioning and remain in cool places during the day

📄 Information:

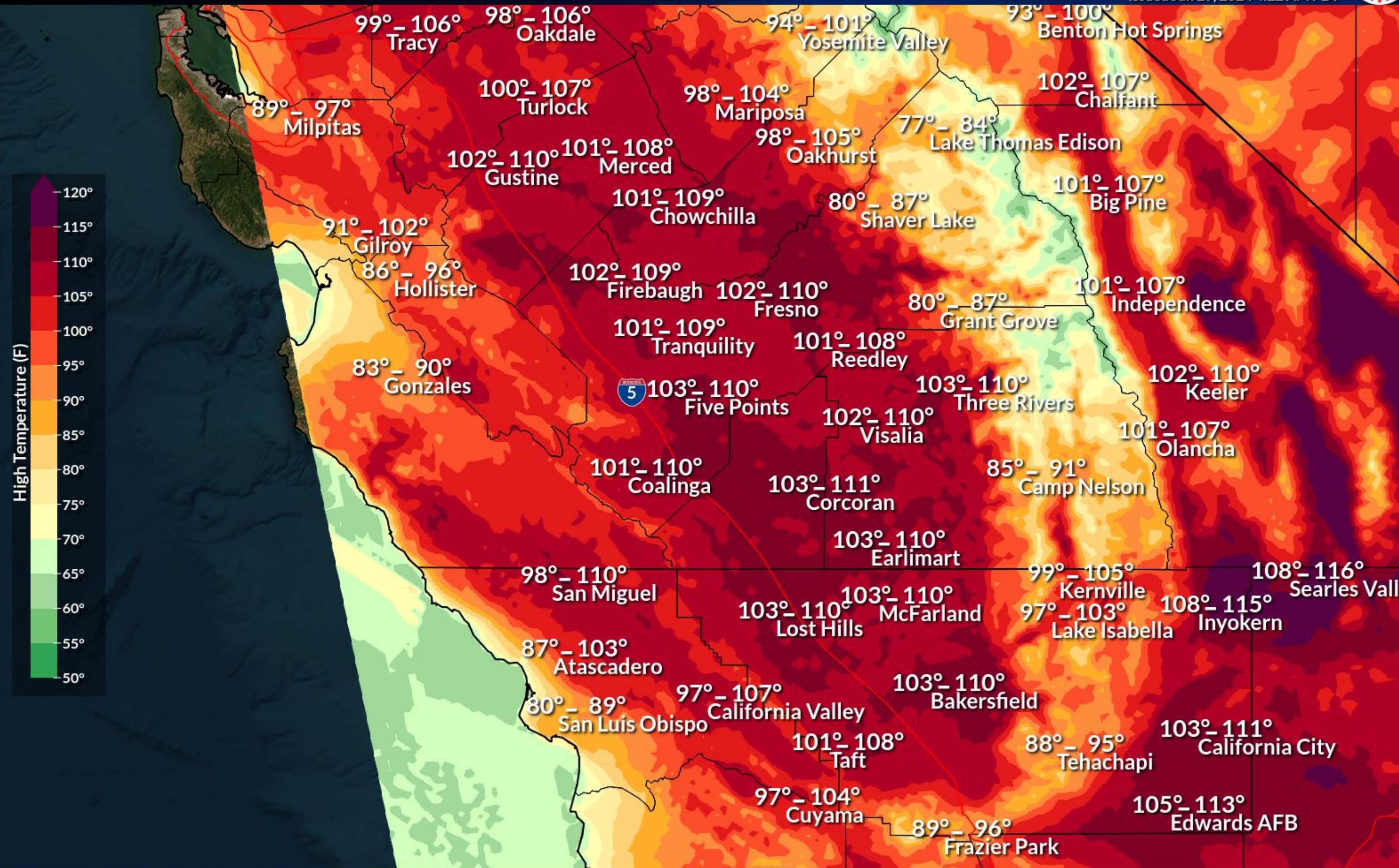
The table displays the percent chance of a weather event occurring based on model predictions from the National Blend of Models. A higher number means greater certainty.

Valid: Sat 05 pm PDT - Sat 05 pm PDT

Issued: Sat, Jun 29, 2024, 3 am PDT



4th of July (Best Case - Worst Case) High Temperatures





What is Major HeatRisk?

extreme

3 - major

moderate

minor

little/none

**Major HeatRisk is the
3rd of 4 levels
of HeatRisk**

What it means:

- **Major Risk** of heat-related illnesses for **much of the population** - especially those without effective cooling or hydration.
- **Little to no relief at night** - air conditioning is necessary - fans and open windows at night will not be enough.

Actions to take:

- Drink plenty of water or sports drink
- Wear lightweight, light-colored clothing
- Avoid outdoor activities during the warmest parts of the day
- Use air conditioning and remain in cool places during the day

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Updated: Fri, Jun 28, 2024 9:15 AM PDT





What is Extreme HeatRisk?

4 - extreme

major

moderate

minor

little/none

Extreme HeatRisk is the
4th of 4 levels
of HeatRisk

What it means:

- **Extreme Risk** of heat-related illnesses for **the entire population** - this is a prolonged heat event that is very dangerous unless precautions are taken.
- **Little to no relief at night.** Air conditioning is necessary - fans and open windows at night will not be enough.

Actions to take:

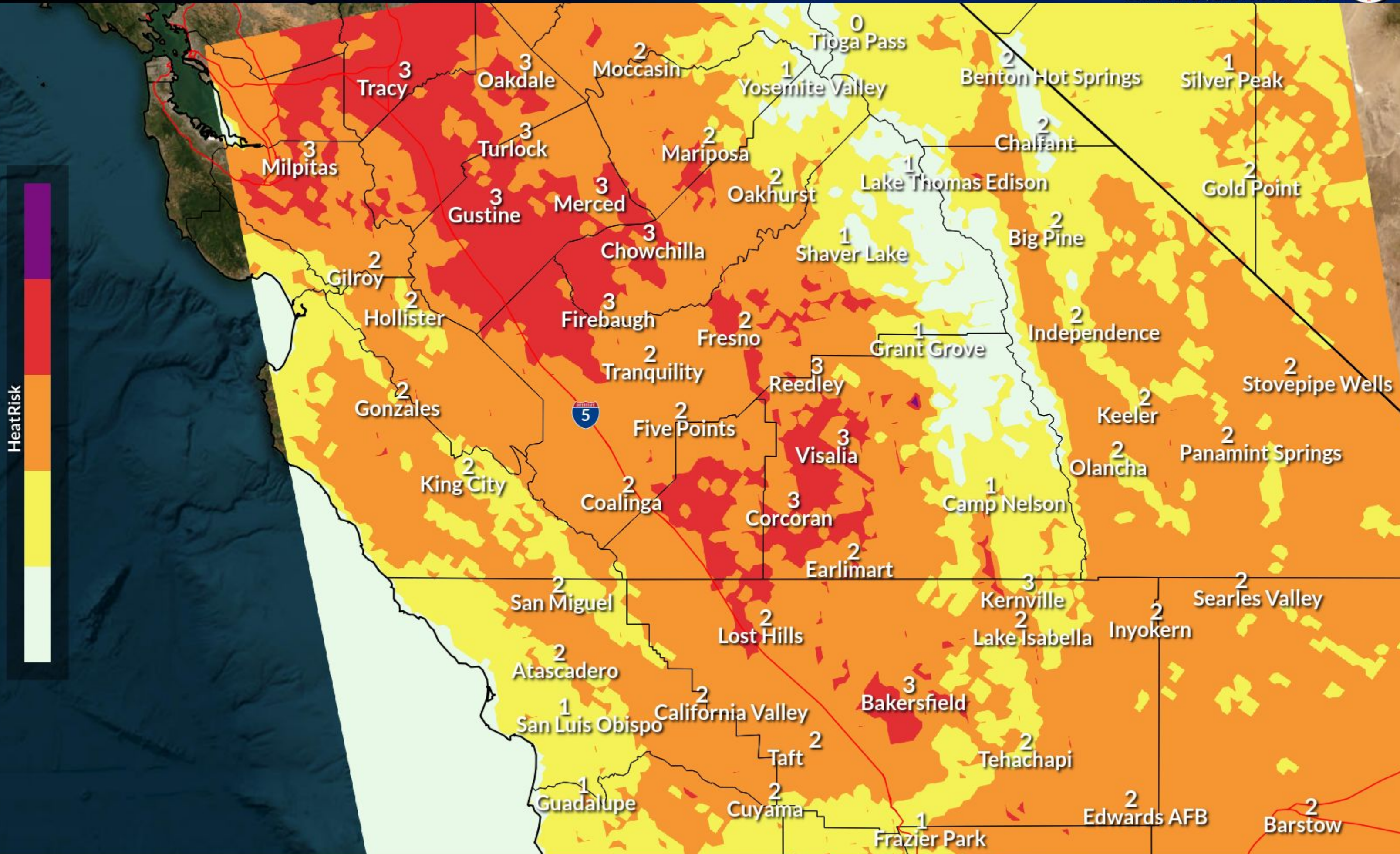
- Drink plenty of water or sports drink
- Wear lightweight, light-colored clothing
- Cancel outdoor activities during the heat of the day
- Use air conditioning and remain in cool places during the day

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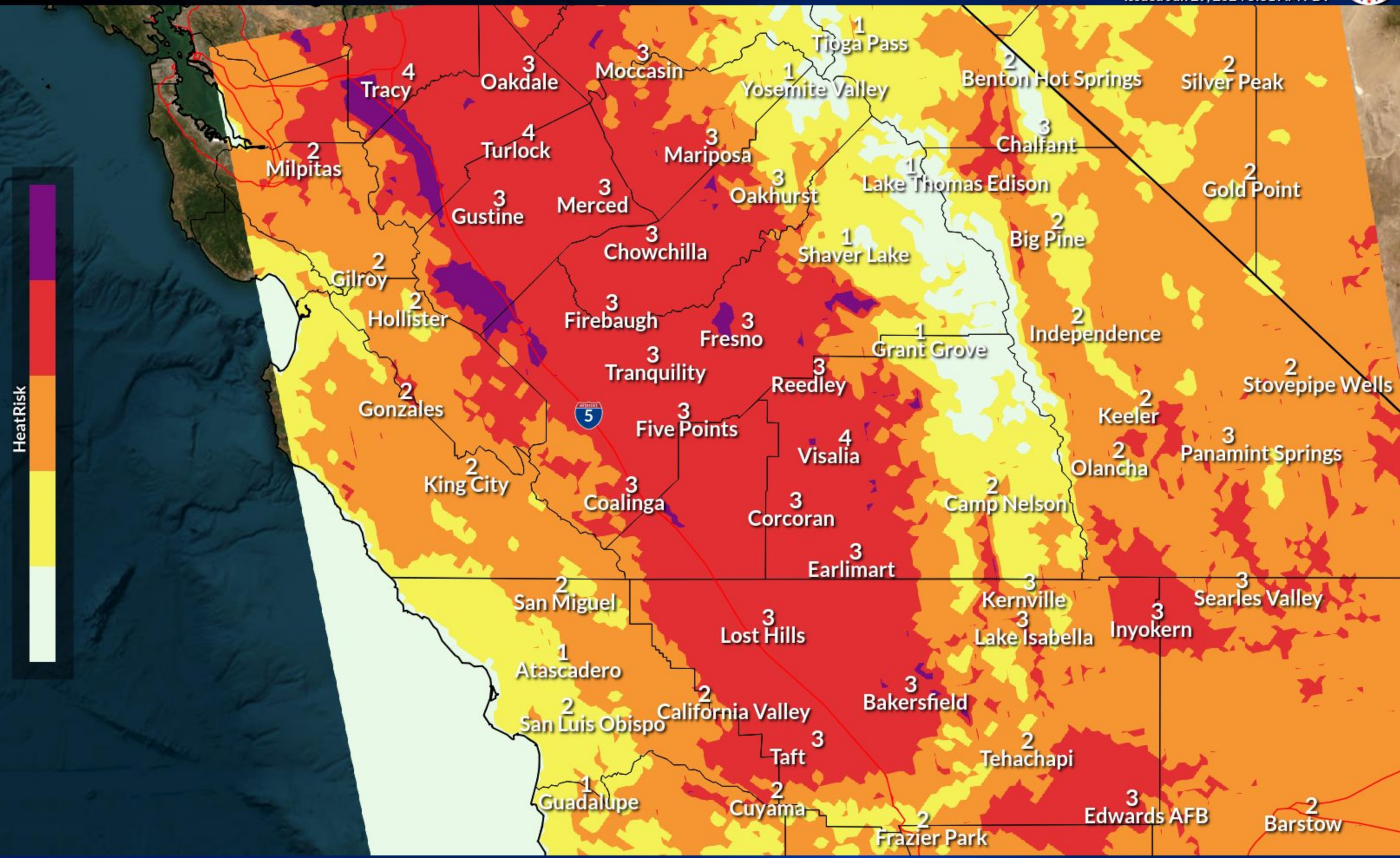
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Updated: Fri, Jun 28, 2024 9:15 AM PDT



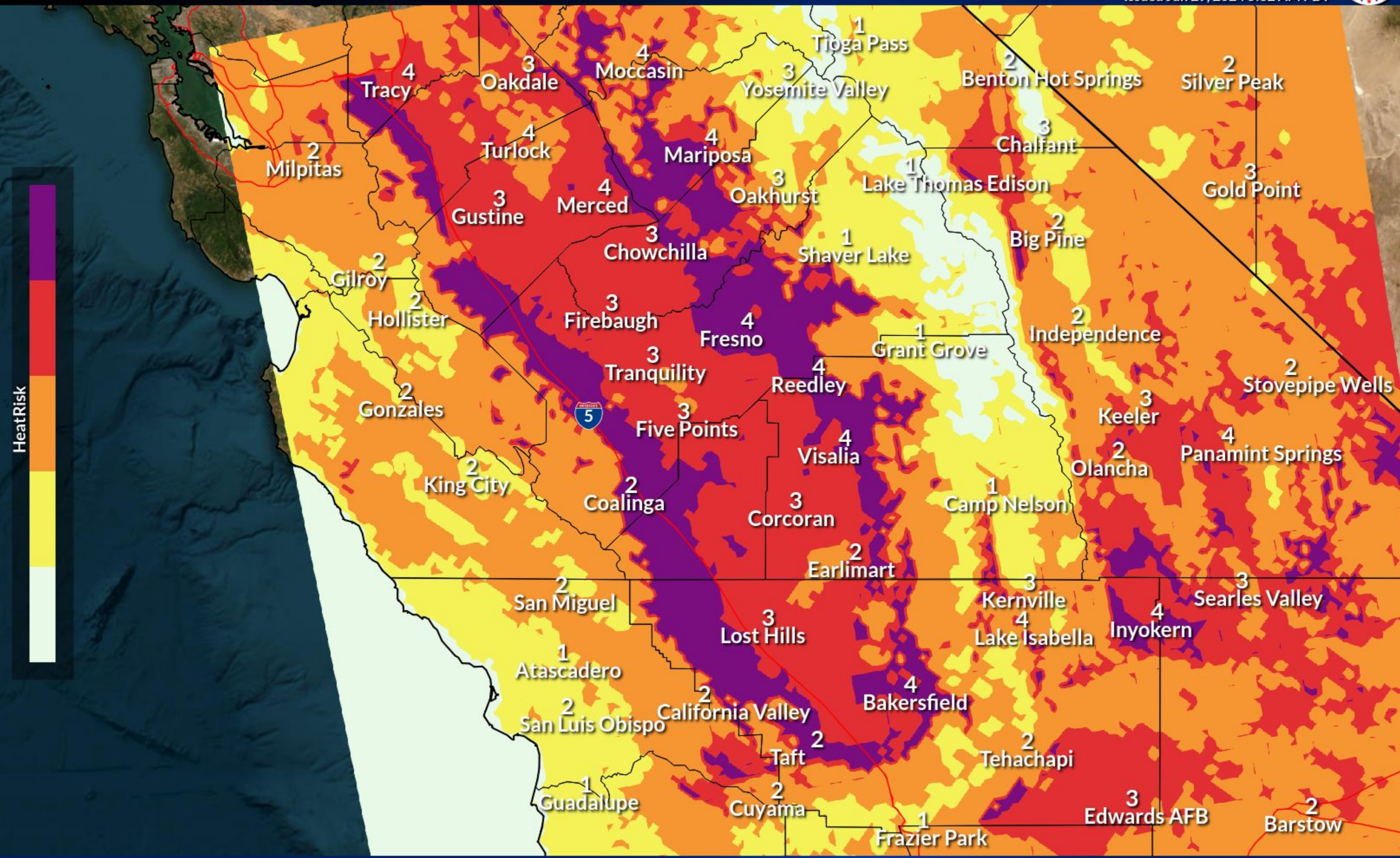
Tuesday's Heat Risk



Wednesday's Heat Risk



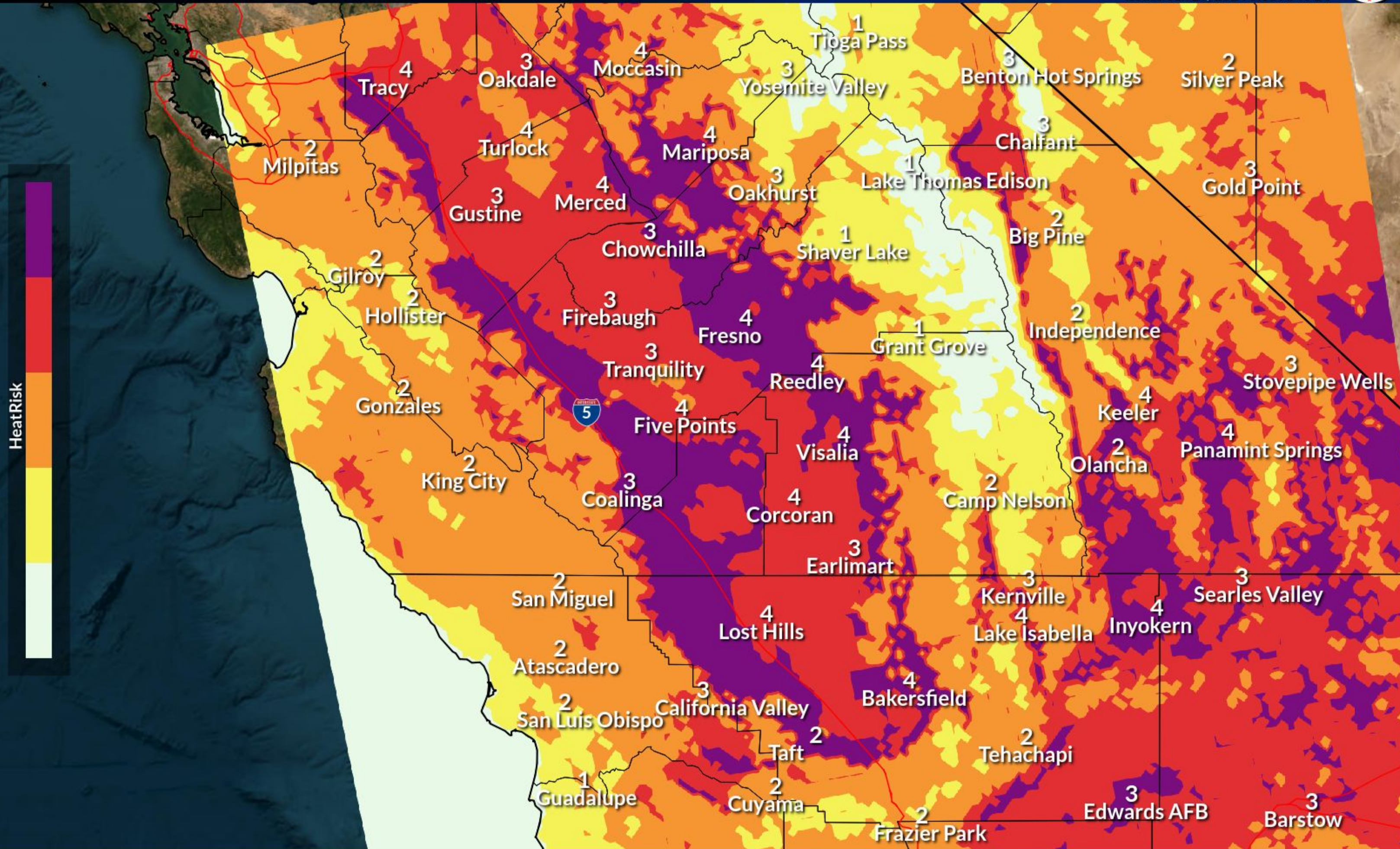
Thursday's Heat Risk 4th of July



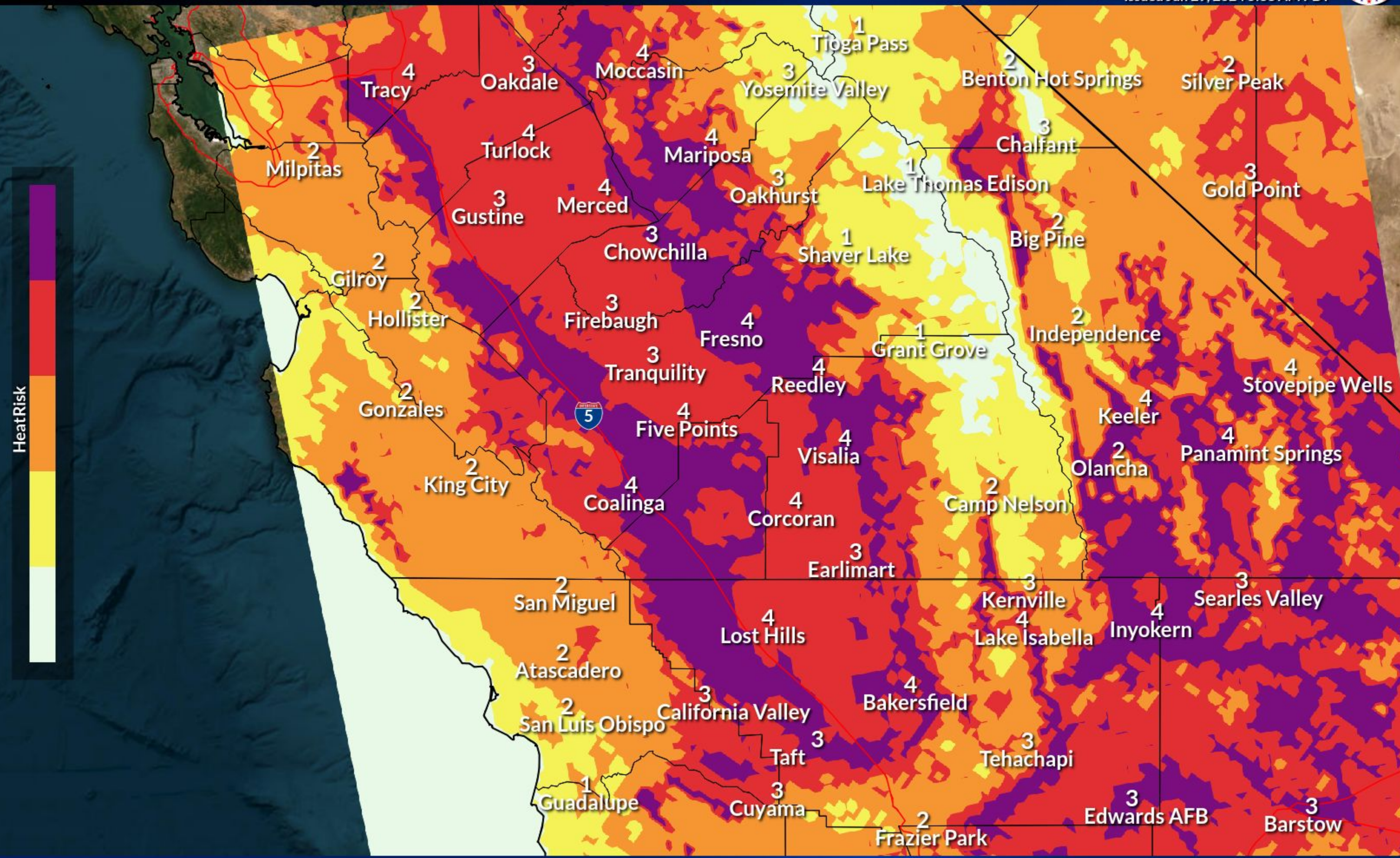
Friday's Heat Risk

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Issued Jun 29, 2024 5:33 AM PDT



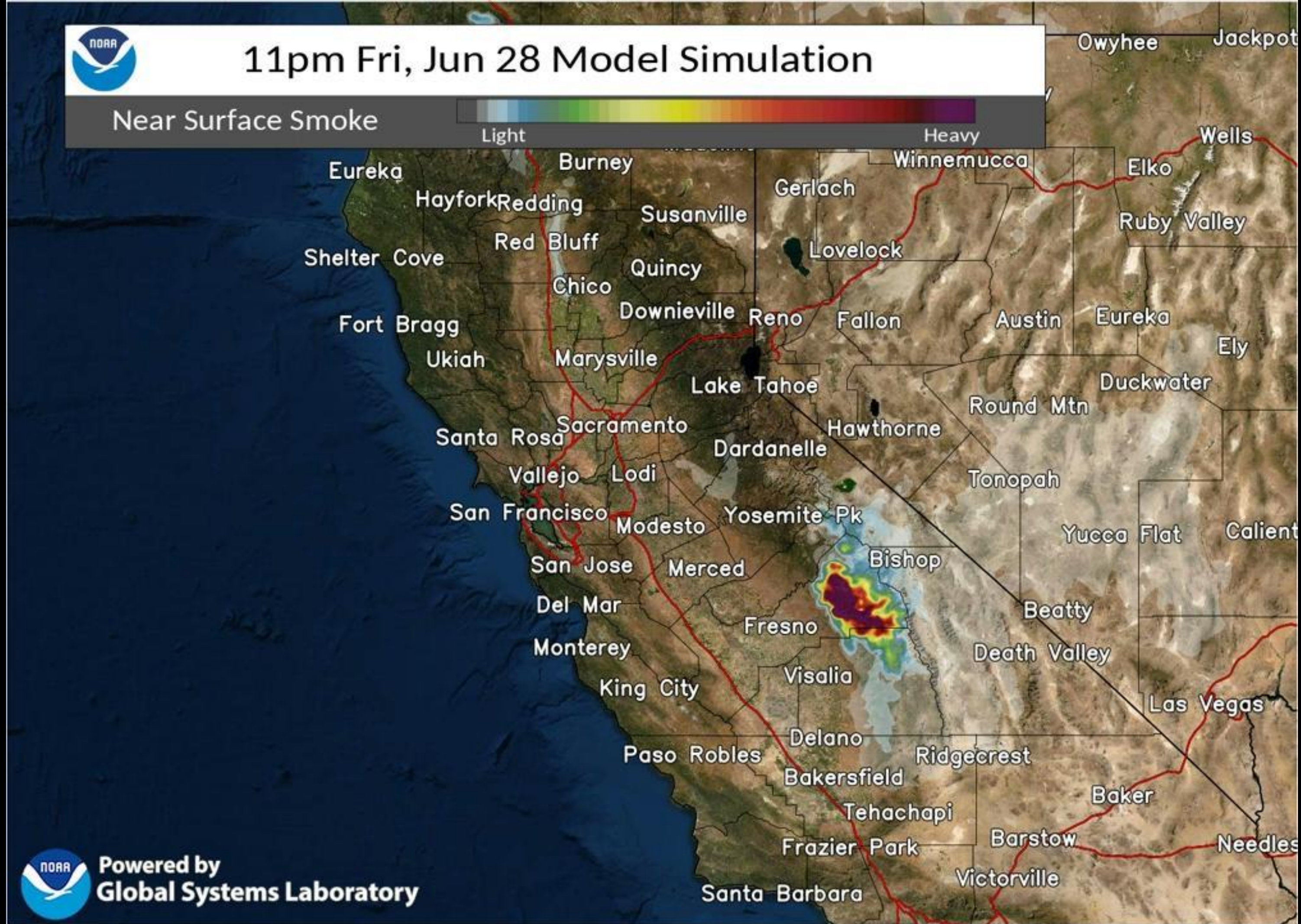
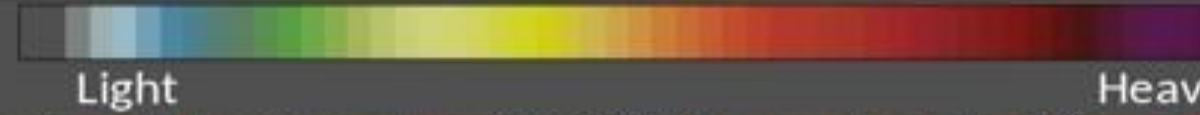
Saturday's Heat Risk





11pm Fri, Jun 28 Model Simulation

Near Surface Smoke



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Global Systems Laboratory



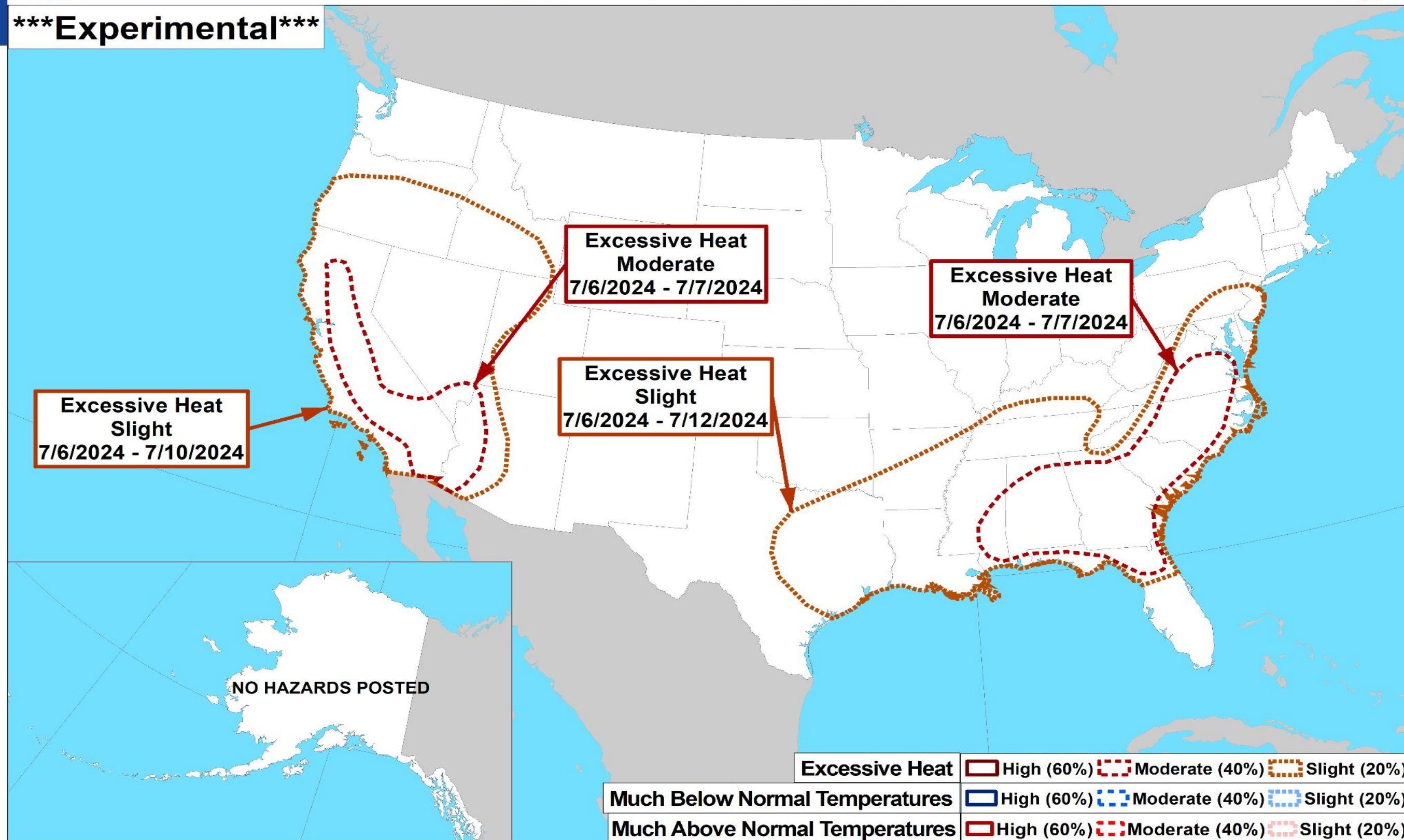
Risk of Hazardous Temperatures

Valid: 07/06/2024-07/12/2024



Weather Forecast Office
Hanford, CA
Saturday, June 29

Experimental



Climate Prediction Center

Made: 06/28/2024 3PM EDT

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40% Chance of Excessive Heat through July 12th



Summary

- **Warming continues this weekend, before a dangerous, long-duration heat wave hits the central valley of California through the holiday week and into next weekend.**
- **An Excessive Heat Warning has been issued for Tuesday July 2nd through Saturday July 6th, and may need to be extended through next weekend as the event nears.**
- **The risk of grass fires will continue to increase with herbaceous fuel loading at or near 120% of normal. A long period of excessive heat, minimum relative humidities near 15% and poor overnight relative humidity recovery continues.**
- **During the middle and late next week, a 15%-20% chance of thunderstorms will reside across the high Sierra in Fresno County north to Yosemite.**

