

Phoenix Trails and Heat Safety Policy Review

Policy Time Frame:

Year round, on Heat Warning days

On NWS issued Heat Warning days:

Trail access restricted from 9 a.m. to 5 p.m.

Trail restrictions at these two locations:

- Camelback Mountain Preserve
 - Echo Canyon Trail
 - Cholla Trail
- Phoenix Mountains Preserve Piestewa Peak
 - Summit Trail and associated trails



How potential trail closures are tracked and implemented







Excessive Heat
Warning
Issued

City Communicates Closure Trailheads are closed from 9 am – 5 pm

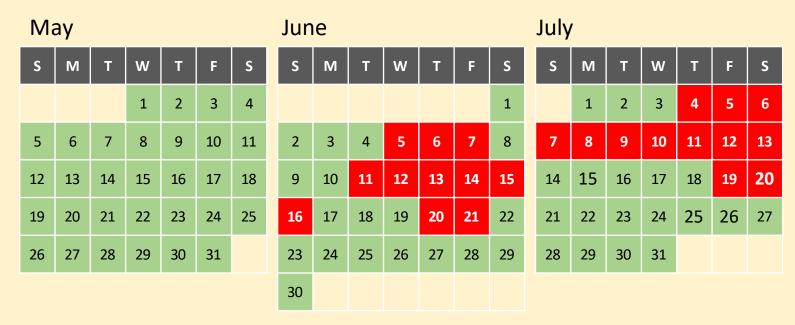
weather.gov/psr/

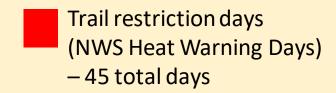
2024 Summer Months

Ma	ay						June									July						
S	М	Т	w	Т	F	S	S	М	Т	W	Т	F	S		S	M	Т	W	Т	F	S	
			1	2	3	4							1			1	2	3	4	5	6	
5	6	7	8	9	10	11	2	3	4	5	6	7	8		7	8	9	10	11	12	13	
12	13	14	15	16	17	18	9	10	11	12	13	14	15	1	.4	15	16	17	18	19	20	
19	20	21	22	23	24	25	16	17	18	19	20	21	22	2	21	22	23	24	25	26	27	
26	27	28	29	30	31		23	24	25	26	27	28	29	2	28	29	30	31				
							30															

Αι	ıgus	t					Se	pte	mbe	er			October							
S	М	Т	w	Т	F	S	S	М	Т	w	Т	F	S	S	M	Т	w	Т	F	S
				1	2	3	1	2	3	4	5	6	7			1	2	3	4	5
4	5	6	7	8	9	10	8	9	10	11	12	13	14	6	7	8	9	10	11	12
11	12	13	14	15	16	17	15	16	17	18	19	20	21	13	14	15	16	17	18	19
18	19	20	21	22	23	24	22	23	24	25	26	27	28	20	21	22	23	24	25	26
25	26	27	28	29	30	31	29	30						27	28	29	31			

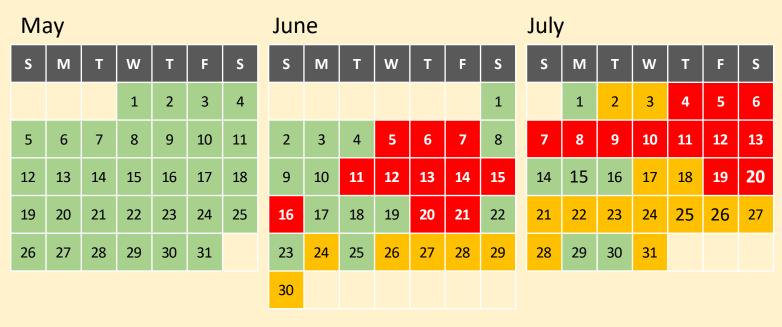
2024 Summer Months and Trail Restriction Days



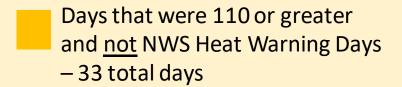


Au	igus	t					Se	pte	mbe	er			October							
S	М	Т	w	Т	F	S	S	М	T	W	Т	F	S	S	М	Т	w	Т	F	S
				1	2	3	1	2	3	4	5	6	7			1	2	3	4	5
4	5	6	7	8	9	10	8	9	10	11	12	13	14	6	7	8	9	10	11	12
11	12	13	14	15	16	17	15	16	17	18	19	20	21	13	14	15	16	17	18	19
18	19	20	21	22	23	24	22	23	24	25	26	27	28	20	21	22	23	24	25	26
25	26	27	28	29	30	31	29	30						27	28	29	31			

2024 Summer Months ≥ 110, No Heat Warning



Trail restriction days
(NWS Heat Warning Days)
– 45 total days



Temperatures on these 33 days ranged as follows:

110 – 12 days

111 – 8 days

112 – 7 days

113 – 5 days

114 – 1 day

August

S	M	Т	w	Т	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

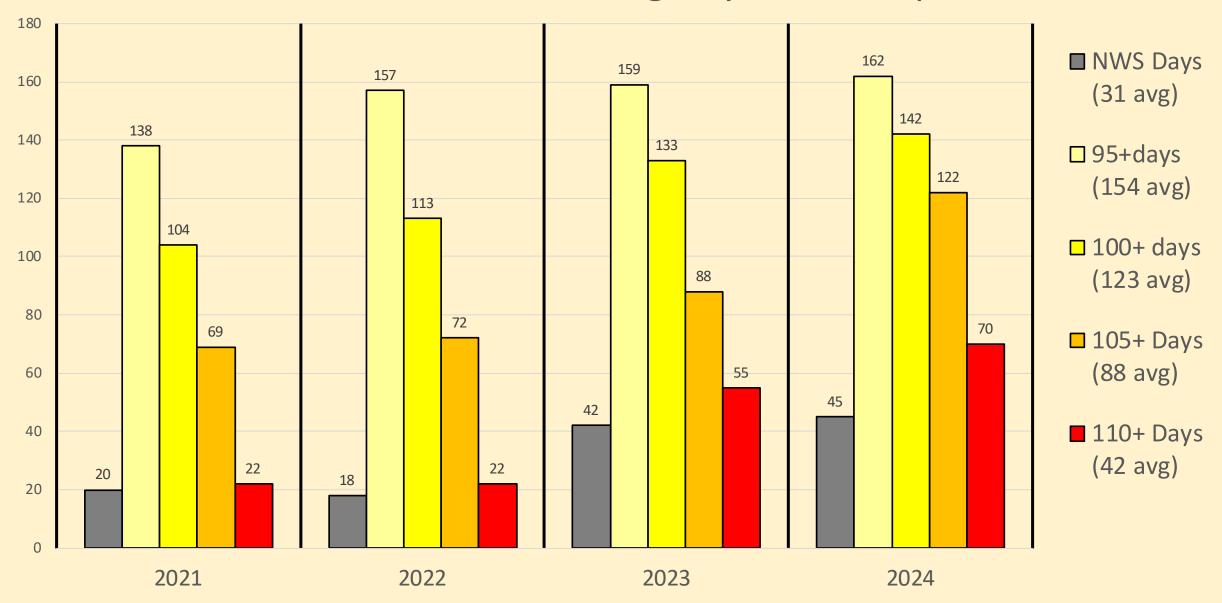
September

S	М	Т	W	Т	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

October

S	M	Т	W	Т	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	31			

2021 to 2024 Heat Warning Days and Temperatures



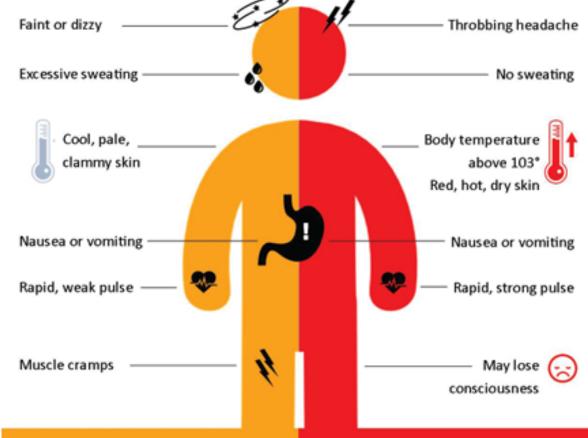


Goal: Identify mountain closures and temperature limits to reduce mountain rescues and risk of heat related illness, while still allowing safe use of the mountain trails.

Data Review: Mountain rescues and visitor counts were reviewed for the top 4 mountain ranges in Phoenix. Additional considerations were extreme heat closure days and the historical high and average temperatures for each day (NWS).

Heat Exhaustion VS. Heat Stroke





- · Get to a cooler, air conditioned place
- · Drink water if fully conscious
- Take a cool shower or use cold compresses

CALL 9-1-1

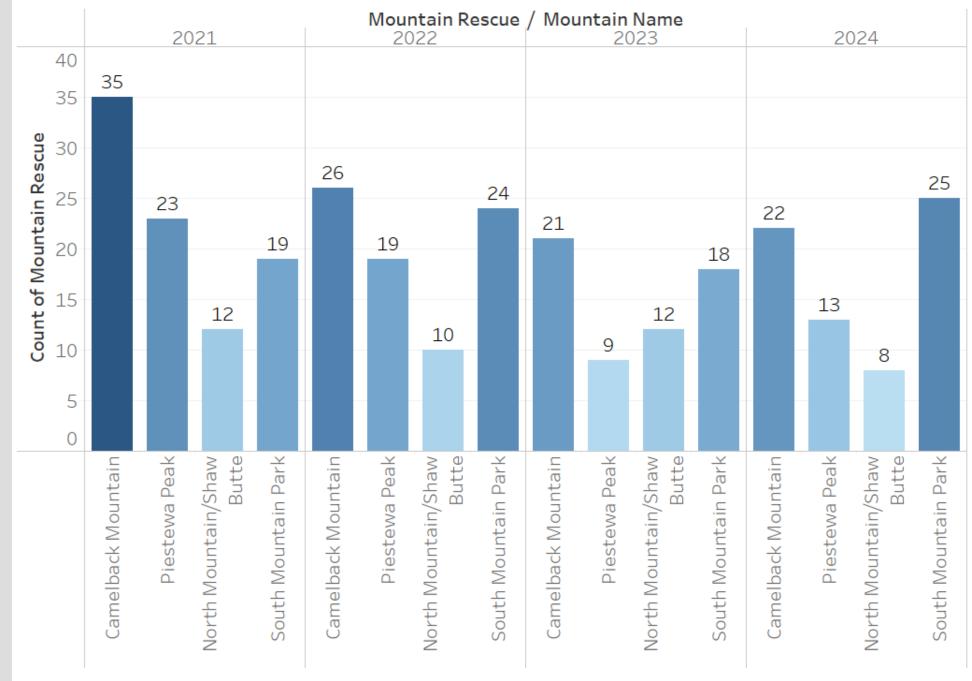
 Take immediate action to cool the person until help arrives **Source: Weather.gov**



Mountain Calls by Year

May 1 - September 30



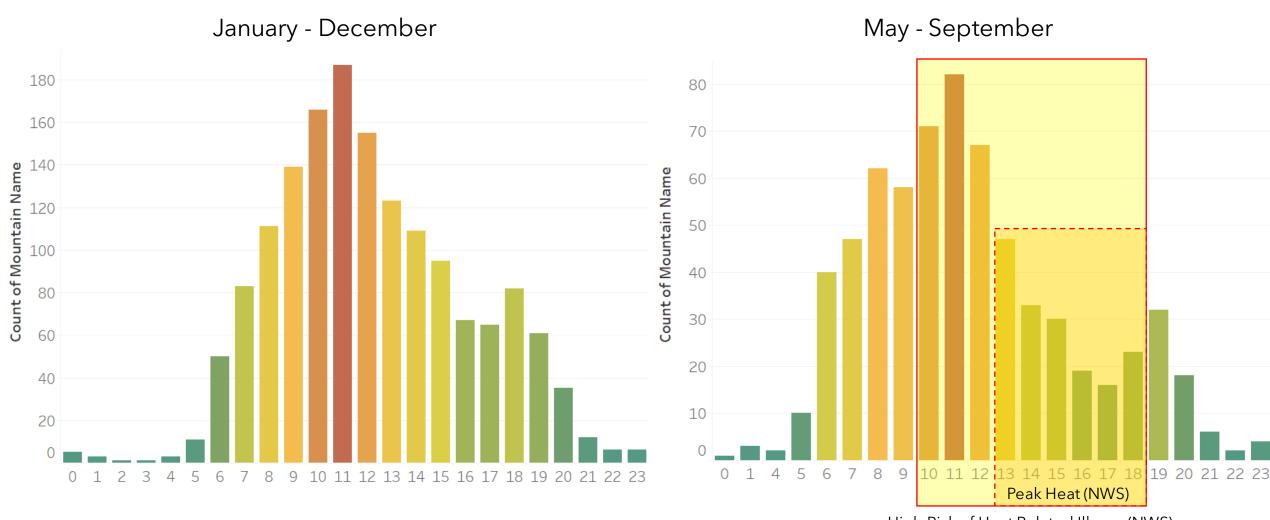


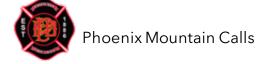
Mountain Calls by Hour 2021-2024/May-Sept

Mountain Name										ſ	Mounta	in Rescue	e									
- 11																						104
Camelback Mountain				1	3	6	3	7	18	17	7	17	6	7	5	1	1	1	2	2		
Piestewa Peak																						64
		1	1	2	6	5	8	7	4	8	6	1	4	2		1	2	3	2		1	
North																						
Mountain/Shaw																						42
Butte			1		4	4	4	6	3	3	1	1	2	1	2	1	3	4	1		1	
South Mountain																						86
Park	1	1		2	6	5	13	4	8	6	10	8	2	5	2	1	3	5	3	1		
	0	1	4	5	6	7	8	9	10 Ho	11	12	13 d in tra	14	15 ure day	16	17	18	19	20	21	23	Grand Total
							,		ПС	Juis III	crude	Jiii lia	II CIOSI	are day	ys							

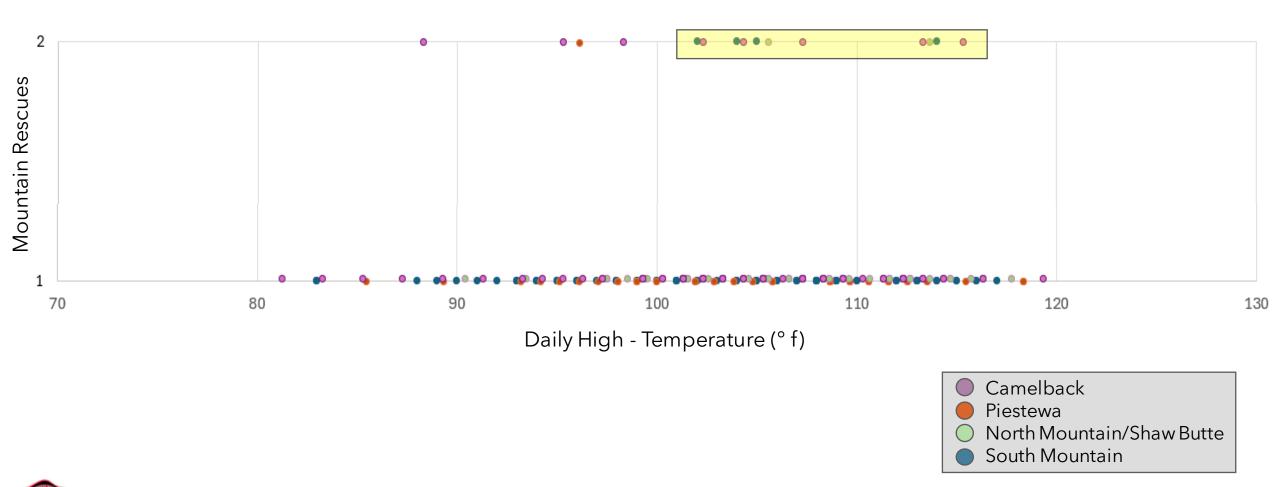


Mountain Calls by Hour Combined 2021-2024





Mountain Rescues vs Temperature





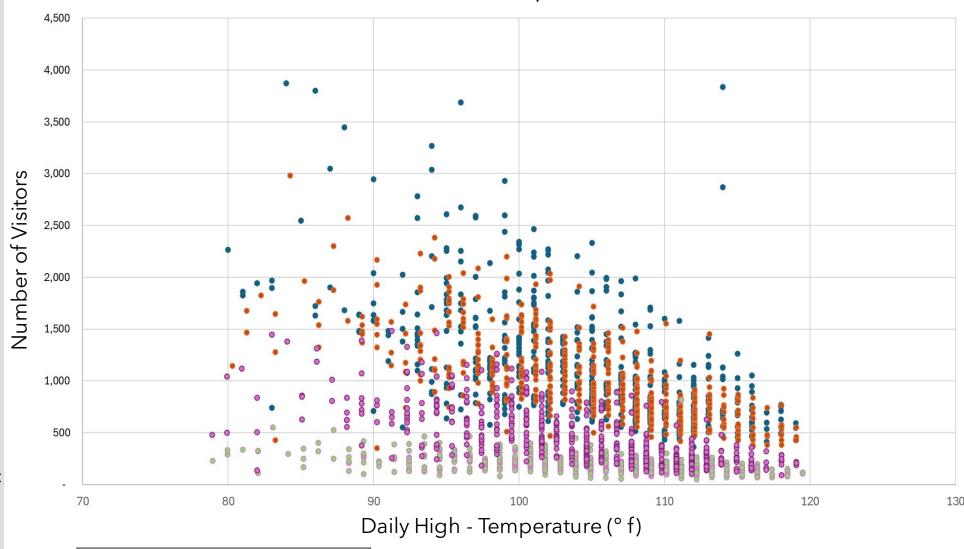
Park Visitors

COP Parks and Rec visitor counts for:

- Camelback
- Piestewa Peak
- N. Mountain/Shaw Butte
- S. Mountain



Park Visitors vs Temperature



CamelbackPiestewaNorth Mountain/Shaw ButteSouth Mountain

Combining the Data (based on 2021-2024 trends)

The highest risk reduction model:

- Closing Camelback, Piestewa Peak,
 North Mountain and South Mountain
- When the temperature reaches 95 degrees
- Between the hours of 8 am 7 pm

Will reduce the number of mountain rescues by about 50%

A reasonable risk reduction model:

- Closing Camelback, Piestewa Peak, and South Mountain
- When the temperature reaches 105 degrees
- Between the hours of 8 am 5 pm

Will reduce the number of mountain rescues by almost 30%







Policy modification request



Current:

Close trails from 9 a.m. to 5 p.m. at Camelback Mountain Preserve- Echo Canyon and Cholla Trail, and all associated trails and trailheads at Phoenix Mountains Preserve - Piestewa Peak when the National Weather Services Issues Excessive Heat Warning Days.

2024 Proposed Changes:

Add the closure of trails at South Mountain Park / Preserve

Begin closures at 8 a.m.

