

## CITY OF PHOENIX WEEKLY HEAT RESPONSE UPDATE

TUESDAY, JULY 5, 2022

REVIEWING MONDAY, JUNE 27-SUNDAY, JULY 3

### Summary

Near-normal conditions have persisted for more than two weeks. A short reprieve with below normal temperatures for the first half of the week will give way to temperatures exceeding 110°F by the weekend. These higher temperatures will increase public health risks. However, conditions are not currently forecast to exceed the Moderate HeatRisk level, or to trigger an Excessive Heat Warning, according to the National Weather Service.

The pace of heat-related calls to the Phoenix Fire Department moderately increased relative to the week prior with an average of approximately 15 per day. Year-to-date calls continue to trend slightly **below** the pace from 2021. No additional heat-related deaths were confirmed by Maricopa County. Heat relief supplies for community organizations are being restocked and order fulfillment has resumed. 39 different community organizations have been supported by the City for heat relief in summer 2022.

### I. RECENT AND YEAR-TO-DATE WEATHER CONDITIONS

Daily high temperatures continued to be very close to climatological averages for a second consecutive week. The current streak of days without a high reaching 110°F has been extended to 16 days. Nights were consistently above average but remained below 90°F. After the previous week, the average temperature for warm season 2022 (April 1 to present) is now running slightly cooler than the same period in 2021 (by 0.03°F) and 3.2°F higher than the climatological normal.

	Daily High °F	Normal High °F	vs. Normal °F	Daily Low °F	Normal Low °F	vs. Normal °F
Mon 6-27	103	106.4	-3.4	79	82	-3
Tues 6-28	107	106.5	0.5	87	82.2	4.8
Weds 6-29	109	106.6	2.4	89	82.5	6.5
Thurs 6-30	105	106.7	-1.7	87	82.7	4.3
Fri 7-1	108	106.7	1.3	88	82.9	5.1
Sat 7-2	105	106.8	-1.8	88	83.1	4.9
Sun 7-3	109	106.8	2.2	87	83.3	3.7

## HOT DAYS AND NIGHTS TRACKER

	Year to Date (2022)	Year to Date (2020)	Normal Year to Date
100°F days	43	50	37.5
110°F days	6	9	6.6
85°F nights	13	4	5.5

Notes: Year to Date statistics for 2020 are included as a point of comparison to the hottest summer in the recorded history of Phoenix by most climatological measures. Normal is defined based on the 1991–2020 time period.

## HEAT WARNING TRACKER

No Excessive Heat Warnings were issued last week. There have been 6 days with Excessive Heat Warnings this summer, the fewest year to date since 2019. Excessive Heat Warnings have been issued in the month of July in each of the previous six summers and 9 of the previous 10.

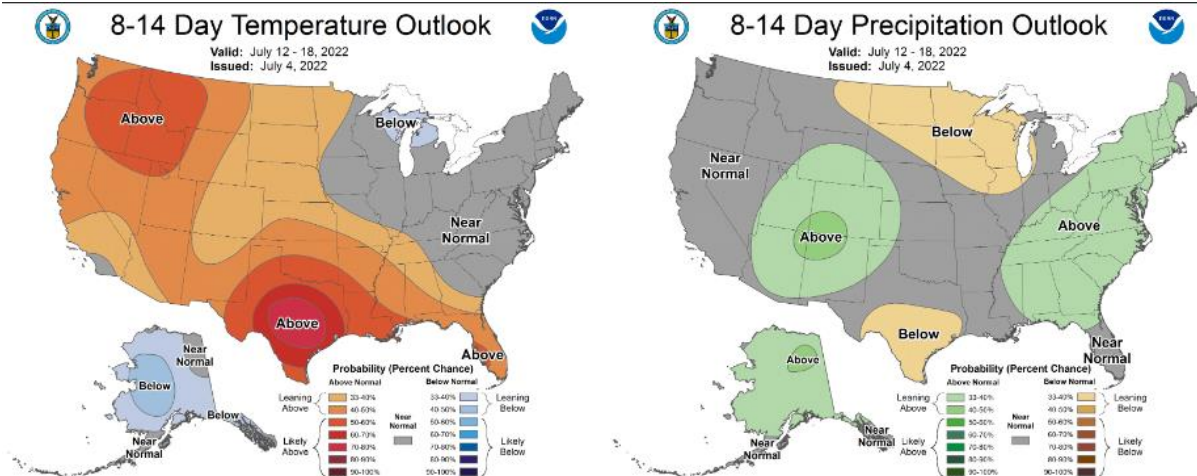
## 2. NATIONAL WEATHER SERVICE FORECAST

After a seasonably mild start to the week, temperatures will move consistently above 110°F and climatological normals by the weekend. At this time, the forecast guidance keeps every day in the Moderate HeatRisk category for the end of the week and weekend, but continued monitoring of the forecast is encouraged as temperatures will be only slightly below warning thresholds. Storm and precipitation chances will be essentially zero by the end of the week.

Tue	Wed	Thu	Fri	Sat	Sun	Mon
104	105	107	109	111	112	111
83	83	84	87	89	89	88

No risk.	Risk to those extremely sensitive to heat.	Risk to those sensitive to heat.	Risk to most people.	Risk to everyone.
None	Low	Moderate	High	Very High

The early forecast for the following week suggests a return to more favorable conditions for storms and rainfall with a modest chance of above average temperatures.



### 3. HEAT-HEALTH DATA

#### HEAT-RELATED MORTALITY AND MORBIDITY

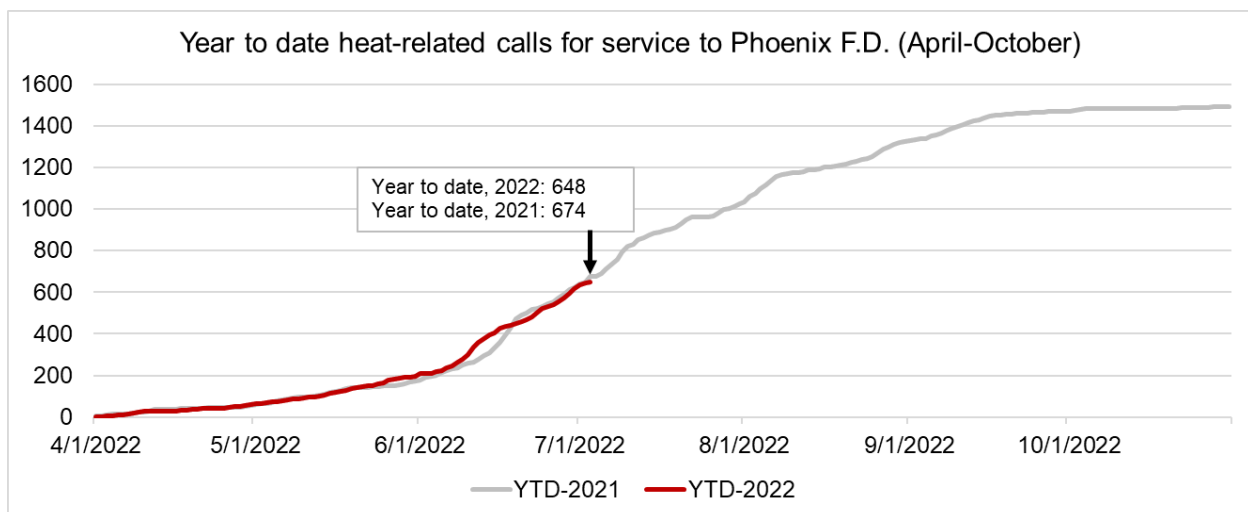
The Maricopa County Department of Public Health is still reporting 6 confirmed heat-associated death for 2022, with no change from the previous reporting period. As of their June 25 report, there are 75 additional cases under investigation, an addition of 13 cases from the prior week. MCDPH heat-health reports are available online:

<https://www.maricopa.gov/1858/Heat-Surveillance>.

#### HEAT-RELATED CALLS FOR SERVICE TO PHOENIX FIRE DEPARTMENT

The Phoenix Fire Department responded to 106 calls for service identified by the dispatcher to be related to heat over the previous week. This was slightly more than the number of calls as the week prior (92 calls, an increase of about 15%). Advanced life support systems were deployed for 31 of the 106 calls. In 2021, the same 7-day period had 121 calls for service related to heat, with similar high temperatures (average high temperature of about 107°F both in 2021 and 2022). The highest daily number of calls over the previous week occurred on Thursday June 30 (high of 105°F), with 24 heat-related calls, which was slightly more than the daily maximum number of calls last week (20 calls). June 19 had the most heat-related calls last year with 43, with a high temperature of 116°F. (Note: heat dispatch call data typically do not reflect mountain rescues related to overheating and/or dehydration).

Year to date, heat-related calls for service to the Phoenix Fire Department are now running approximately 4% **lower** than 2021.

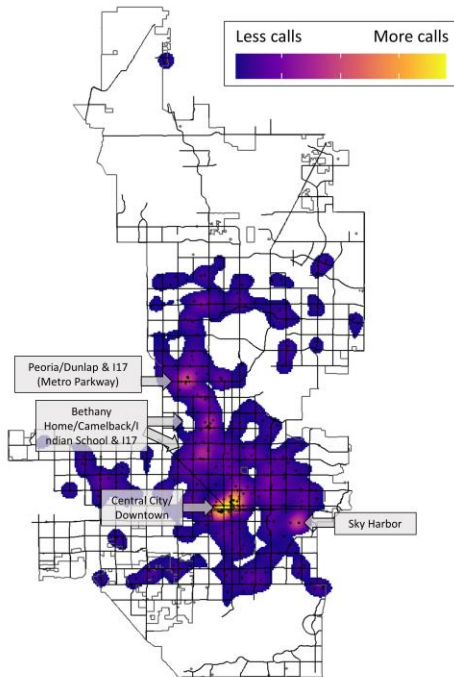


Spatially, since June 1, 2022 to date (through July 3), heat-related calls for service have been concentrated in a few areas: the Central City/Downtown area, Sky Harbor airport, and along the I-17 from Indian School Rd to Peoria Ave, with a distinct hotspot in the Metro Parkway area between Peoria Ave and Dunlap Ave. Over the past week, the areas of concentration remained mostly the same,

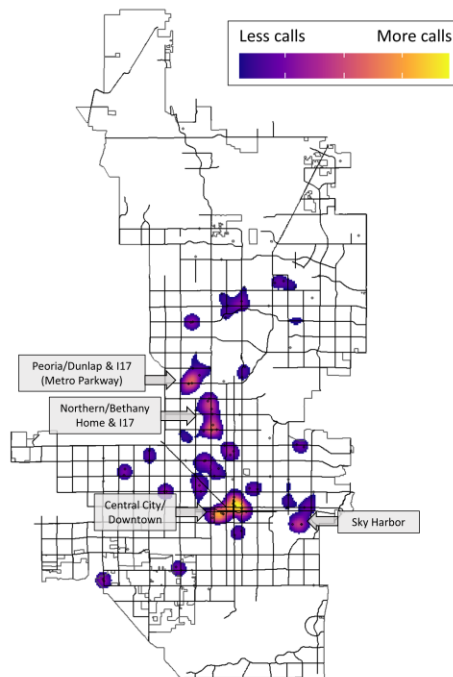
### June 1 – July 3

### Last week (June 27 – July 3)

Map of Phoenix Fire Department calls for service related to heat June 1 – July 3, 2022  
 \*Note: Point locations are approximated based on partial addresses or cross streets.



Map of Phoenix Fire Department calls for service related to heat June 27 – July 3, 2022  
 \*Note: Point locations are approximated based on partial addresses or cross streets.



## 4. COMMUNITY SEARCH DATA

### PHOENIX 3-1-1

There were 11 resident inquires made through Phoenix 3-1-1 for the period June 27–July 1 that were related to summer heat, a decrease of 4 calls from the week prior. Most of the calls were related to aquatics. Additional calls were made concerning the cooling ordinance, heat relief locations, and undesired removal of trees by an HOA.

### ARIZONA 2-1-1

There were 292 requests for electrical utility assistance fielded by Arizona 2-1-1 over the previous week in Maricopa County. This represented a 14% increase from the previous week.

The month of June ended with 1,161 requests for electrical utility assistance. This was the highest monthly count in the past year and more than 66% above the June 2021 total.

## GOOGLE SEARCH

Google staff members are preparing a prototype customized dashboard for monitoring heat-health impacts and search queries related to heat for the City of Phoenix that will be tested and evaluated this summer. Publicly available Google Trends data for Arizona showed a small uptick in searches for heat stroke, swimming pools, and air conditioning relative to the previous week, but lower than the seasonal high. There is no clear recent trend in searches for heat illness, heat warnings, or cooling centers.

## 5. STATUS OF HEAT RESPONSE PROGRAMS AND SERVICES

Program status indicated by color in status column. Updates are provided in the right-hand column as relevant to program planning and implementation.

	Fully operational (23 programs)
	Partially operational (3 programs)
	Planning and preparation (5 programs)
	No action to date (0 programs)
	No information available (0 programs)

City of Phoenix Heat Response Programs and Services – Summer 2022				
Initiative	Target population	Lead depts.	Status	Updates
FOCUS AREA 1. Situational awareness at City Hall and real-time response				
1.1 First responder services	ALL	FIRE, PD		Normal operations.
1.2 Reciprocal relationship with 3-1-1 and 2-1-1	ALL	OHRM, 311		More search terms and customized analysis will be added in future reports. Staff are following up on selected 311 calls.
1.3 Real-time monitoring of weather and health data with AZ Heat Resilience Work Group	ALL	OHRM		Normal operations. The work group meets biweekly on Thursday afternoons during the summer with participation from multiple city departments.
1.4 Enhancing heat response resources for first responders	ALL	OHRM, PD		Planning continues with OHRM and PD staff.
1.5 Pilot program with Google search data for public health	ALL	OHRM		Pilot dashboard in development. Additional planning conversations were held during the last week of June.
1.6 Weekly status reports	CITY DEPTS	OHRM		Ninth report distributed July 5.

FOCUS AREA 2. Public engagement, communications, and outreach				
2.1 Multi-platform Heat Safety Messaging	ALL	COMMS, OHRM		Summer safety messaging has transitioned to full operational mode and includes new content produced by the Communications team this year.
2.2 We're Cool Volunteer Program	UNSHELTERED, HIKERS	VOL, OHRM, FIRE		34 outreach shifts have been completed, with 29 focusing on street outreach and 5 at City trailheads. Nearly 1500 contacts have been made through this program. Supplies distributed include water, hats, sunscreen, cooling center maps, heat safety cards, cooling towels, misters, and umbrellas. Staff from OHRM, HSD, VOL, TRANSIT and FIRE, and volunteers from CERT and Council Offices have participated. Onboarding of new volunteers continues.
2.3 Cool Callers Volunteer Program	LIVING ALONE, LIMITED COOLING	VOL, OHRM		Initial calls were made during the previous week and enrollment of additional participants and volunteers continues. One resident was referred to the landlord tenant program with a cooling ordinance concern.
2.4 Let's Talk Heat Booklet	ALL	A&C		Booklets are available for distribution, and a digital version is available on the City website (link available below).
2.5 Investments in Cooling Center Signage	ALL	OHRM, VOL		New signs for cooling centers are being distributed to City facilities and community partners through multiple channels, including the Cooling Center Response Network platform.
2.6 Heat Relief Resource Distribution	ALL	OHRM, VOL		The inventory of heat relief supplies is being restocked and fulfillment of recent orders is resuming. More than 39 organizations have been allocated supplies with more than 31,000 individual items committed.
FOCUS AREA 3. Publicly accessible cool space and drinking water				
3.1 Supporting the regional Heat Relief Network	ALL	OHRM, LIBRARY, PARKS, HSD		56 City facilities are participating as cooling centers or hydration stations. Staff from multiple departments are supporting Heat Relief Network participation, including managing water distribution. Staff are filling requests from community organizations for printed maps showing locations of nearby cooling centers and hydration stations.
3.2 Reusable water bottle pilot program	ALL	OHRM, PUBLIC WORKS		Staff are continuing to distribute bottles from an initial inventory of 5,000 reusable aluminum water bottles through the We're Cool Program. A qualifying bid for a larger order has been secured through an RFQ.
3.3 Shade and shelter enhancements at and near the Human Services Campus	UNSHELTERED	HSD		Staff implemented a new cooling tent at 9 <sup>th</sup> Avenue and Jackson on June 11 that will operate through the summer, and continue to explore opportunities to improve cooling and water access in this area.
3.4 New shelter at 28 <sup>th</sup> St. and Washington St.	UNSHELTERED	HSD		The shelter is fully operating with high demand and use.
3.5 Provision of portable water tanks	ALL	WATER, OHRM		Staff continue to explore viable options and possible funding sources; Water circulated draft language for a scope of work to collaborating departments in the last week of June.
FOCUS AREA 4. Supporting cool and safe home environments				
4.1 Cooling ordinance and landlord tenant program	RENTERS	NSD, HSD		Normal operations.
4.2 Housing repair programs and weatherization	LIMITED HOME COOLING	NSD		Normal operations. Staff continue to develop neighborhood prioritization criteria for expansion of home weatherization with ARPA funding and are exploring collaborative opportunities with NOAA.
4.3 Emergency utility assistance	LOW INCOME	HSD		Normal operations.

4.4 Suspension of water shutoffs	LOW INCOME	WATER		Normal operations.
4.5 Navigating utility disconnection rules	LOW INCOME	OHRM, COMMS		Web content is being prepared to disseminate through City platforms and channels. OHRM and 311 staff have reviewed existing rules to ensure accurate communication to residents.
<b>FOCUS AREA 5. Supporting cool and safe mobility and recreation</b>				
5.1 Take a Hike, Do it Right	HIKERS	PARKS		Normal operations. Piestewa Peak and Camelback summit trailheads have closed during Excessive Heat Warnings, as planned.
5.2 Adding shade structures at transit stops	TRANSIT USERS	TRANSIT		Normal operations.
5.3 Valley Metro real-time transit tracking	TRANSIT USERS	TRANSIT		Normal operations.
5.4 ARPA-funded transit passes	NON-PROFIT ORGS AND THEIR CLIENTS	TRANSIT		Normal operations.
5.5 City pools	ALL	PARKS		City pools have opened for summer 2022.
5.6 SunBlock Umbrella Distribution	ALL	A&C		Sun umbrellas featuring 14 designs from local artists have been delivered and are ready for distribution at public events.
<b>FOCUS AREA 6. Supporting cool and safe workplaces and schools</b>				
6.1 City employee heat safety efforts	CITY EMPLOYEES	HR SAFETY		Normal operations.
6.2 Promoting ADHS School Heat Safety Toolkit	SCHOOLS	OHRM, COMMS		Messaging content is being prepared to share for the start of the 2022-2023 school year later this summer.
6.3 Reducing and reporting workplace heat safety concerns	EMPLOYERS, EMPLOYEES	OHRM, COMMS, HR SAFETY		Messaging content is being prepared to share throughout the summer, staff are planning cross-departmental meeting to discuss engagement with state agencies including ADHS and ADOSH.

Department key: OHRM – Office of Heat Response and Mitigation; PD – Police; COMMS – Communications; VOL – Volunteer Programs; A&C – Arts and Culture; HSD – Human Services Department; NSD – Neighborhood Services Department.

## 6. HEAT RESPONSE PROGRAM HIGHLIGHT

The City of Phoenix has a cooling ordinance that protects renters' safety and comfort during the summer months. According to chapter 39-5 of the Phoenix City Code, rental units with air conditioning must be able to be cooled to 82°F and units with evaporative coolers must be able to be cooled to 86°F. Concerns may be directed to 602-534-4444. More information is available online:

<https://www.phoenix.gov/humanservicessite/Documents/Cooling%20Ordinance.pdf> .



## 7. REGIONAL AND NATIONAL HIGHLIGHT

Arizona Faith Network has launched an initiative to help cooling centers in faith-based buildings throughout the Valley in response to rising temperatures and the needs of the most vulnerable in our community.

Working in partnership between faith communities, the Heat Relief Network, utility companies, foundations, nonprofits, and the City of Phoenix, AFN is helping operate and resource eight faith-based cooling centers this summer. Last week, AFN packed and distributed

over 800 heat relief bags to heat-vulnerable neighbors throughout Maricopa County. More information is available at [www.arizonafairhnetwork.org/cooling-centers](http://www.arizonafairhnetwork.org/cooling-centers).



Arizona Faith Network is an interfaith organization dedicated to bringing people together to promote peace and understanding through interfaith education and dialogue as well as healing of the world through collaborative social action.

## 8. HEAT SAFETY – DID YOU KNOW?

It is the hottest week of the year, according to our climatological normals. On average, the period July 4–10 has the highest daily maximum temperatures of the year in Phoenix (106.9°F). The average daily maximum temperature remains above 105°F until August 23. Overnight lows do not hit their climatological peak until the week of July 18–24.

## KEY WEBSITES

[City of Phoenix Office of Heat Response and Mitigation](#)

[City of Phoenix Let's Talk Heat Booklet](#)

[City of Phoenix Heat Relief Supply Request Form for Community Organizations](#)

[National Weather Service Phoenix Forecast Office Heat Page](#)

[Maricopa Association of Governments Heat Relief Network](#)

[Maricopa County Department of Public Health Heat-Health Surveillance Program](#)

[Arizona Department of Health Services Climate and Health Program](#)

Questions about this report may be directed to David Hondula, Director of Heat Response and Mitigation: [david.hondula@phoenix.gov](mailto:david.hondula@phoenix.gov).