

**CITY OF PHOENIX  
WEEKLY HEAT RESPONSE UPDATE**

**MONDAY, MAY 16, 2022**

**REVIEWING MONDAY, MAY 9–SUNDAY, MAY 15**

**Summary**

The highest temperatures of 2022 to date were observed over the weekend of May 14-15. Heat-related calls for service to the Phoenix Fire Department hit year-to-date highs over the same time period. Health and search data continue to suggest a modest, but slowly increasing, community impact of extreme heat. Water supplies and new signage are being distributed to cooling centers and hydration stations in the City of Phoenix. The We're Cool program has reached 400 points of contact and spread awareness of heat relief resources and services for homelessness. Temperatures are forecast to be above seasonal normal over the upcoming week, with most days classified as Moderate Heat Risk. 22 of the City's 31 heat response programs and services are fully or partially operational.

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

After a relatively cool start to the week, above-average conditions arrived for the weekend with two consecutive days at or above 104°F. The daily high of 105°F on Sunday, May 15 was the highest temperature observed at Phoenix Sky Harbor Airport this year.

	<b>Daily High °F</b>	<b>Normal High °F</b>	<b>Departure from Normal °F</b>	<b>Daily Low °F</b>	<b>Normal Low °F</b>	<b>Departure from Normal °F</b>
May 9	89	91.9	-2.9	68	67.4	0.6
May 10	90	92.2	-2.2	66	67.7	-1.7
May 11	89	92.6	-3.6	66	68	-2
May 12	86	92.9	-6.9	59	68.3	-9.3
May 13	96	93.3	2.7	62	68.6	-6.6
May 14	104	93.7	10.3	68	68.9	-0.9
May 15	105	94	11	71	69.2	1.8

## 100°F AND 110°F DAY TRACKER

	Year to Date	Normal Year to Date
100°F days	3	4.3
110°F days	0	0

## HEAT WARNING TRACKER

No Excessive Heat Warnings have been issued year to date. Excessive Heat Warnings have been issued in the month of May in 3 of the past 10 years.

## 2. FORECAST WEATHER CONDITIONS

The National Weather Service forecast for the upcoming week has temperatures consistently at or above seasonal normal. Moderate HeatRisk is forecast for the majority of the week, with a minor reprieve on Friday and Saturday. No precipitation and only occasional light cloud cover is expected.

Mon	Tue	Wed	Thu	Fri	Sat	Sun
104	102	100	100	98	100	104
	74	74	73	72	72	74

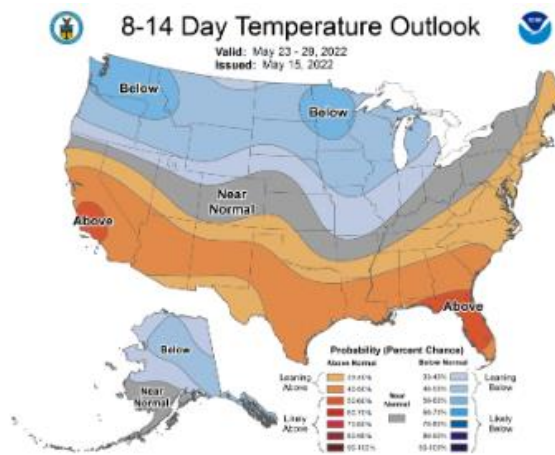
No risk.	Risk to those extremely sensitive to heat.	Risk to those sensitive to heat.	Risk to most people.	Risk to everyone.
None	Low	Moderate	High	Very High

The following week (May 23–29) brings a shift in the regional weather pattern away from strong high pressure in the West, but the odds remain tilted toward above-normal temperatures.

**Above: 43%**  
**Near: 33%**  
**Below: 24%**

Probability of the average temperature during next week being above, near, or below normal.

[Get more from the NOAA/Climate Prediction Center](#)



### 3. HEAT-HEALTH DATA

#### HEAT-RELATED MORTALITY AND MORBIDITY

There have not been any confirmed heat-associated deaths this year in Maricopa County as of May 16, per the Maricopa County Department of Public Health (MCDPH). The preliminary Yearly Heat Mortality Report for 2021 from MCDPH is available online:

<https://www.maricopa.gov/Archive.aspx?ADID=5404> .

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

The Phoenix Fire Department responded to 25 calls for service identified by the dispatcher to be related to heat over the previous week. This represented an increase of 2 cases (8.7%) above the week prior. Advanced life support systems were deployed for 7 of the 25 calls. In 2021, the same 7-day period had 28 calls for service related to heat, with similar temperatures. Saturday and Sunday, May 14 and 15 (high temperature 104°F-105°F), each had 6 heat-related calls for service, which tied April 30 for the year-to-date high for daily call volume. June 19 had the most heat-related calls last year with 43, with a high temperature of 116°F.

### 4. COMMUNITY SEARCH DATA

#### PHOENIX 3-1-1

There were 19 resident inquires made through Phoenix 3-1-1 for the period May 9–13 that were related to summer heat, an increase of 3 calls (18.8%) from the week prior. As in the previous week, the majority of calls were related to swimming pools, including inquiries about dates and hours for City pools. One referral was made to the Neighborhood Services Department Home Repair program after a question about air conditioning replacement.

#### ARIZONA 2-1-1

Staff from Arizona 2-1-1 presented at the first May meeting of the Arizona Heat Resilience Work Group to share the range of services offered by 2-1-1. City staff are developing reporting protocol with Arizona 2-1-1.

#### 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 show a recent increase in searches related to heat exhaustion, heat stroke, and swimming pools, but no clear trend in searches related to cooling centers, air conditioning, or heat warnings.

## 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 (13 programs)
	Partially operational (9 programs)
	Planning and preparation (9 programs)
	No action to date (0 programs)
	No information available this week (0 programs)

City of Phoenix Heat Response Programs and Services – Summer 2022				
Initiative	Target population	Lead depts.	Status	Updates
<b>FOCUS AREA 1. Situational awareness at City Hall and real-time response</b>				
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		Initial working model developed with 311, planning continues with 211.
1.3 Real-time monitoring of weather and health data with Arizona 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 leveraging search data for public health	ALL	OHRM		Pilot dashboard in development. Additional planning conversations forthcoming.
1.6 Weekly status reports	CITY DEPTS	OHRM		Second report distributed May 16.
<b>FOCUS AREA 2. Public engagement, communications, and outreach</b>				
2.1 Multi-platform Heat Safety Messaging	ALL	COMMS, OHRM		Initial summer safety messaging through social media channels and updates to summer and heat safety sections of relevant City websites. Approximately 20 heat-relevant posts were issued on City Twitter accounts, many of which focused on volunteer recruitment. A summer safety media shoot with staff from multiple departments will be held May 10. Planning conversations continued for Arizona Heat Awareness week (May 23-27) with the Arizona Department of Health Services and National Weather Service.
2.2 We're Cool Volunteer Program	UNSHELTERED , HIKERS	VOL, OHRM, FIRE		6 outreach shifts have been completed season to date, with 4 focusing on street outreach and 2 at City trailheads. Approximately 400 contacts have been made through this program with 550 water bottles distributed thus far. Additional supplies distributed include hats, sunscreen, cooling center maps, heat safety cards, cooling towels, misters, and umbrellas. Staff from OHRM, HSD, VOL, and FIRE, and volunteers from CERT, have participated. Volunteer



				recruitment, onboarding, training, and coordination is ongoing.
2.3 Cool Callers Volunteer Program	LIVING ALONE, LIMITED COOLING	VOL, OHRM		Volunteer recruitment and onboarding is ongoing, with training scheduled for the week of May 23. Telephones for volunteer use have been secured.
2.4 Let's Talk Heat Booklet	ALL	A&C		Booklets are being printed and are expected to ready for distribution at community events this month. A digital version is available on the City website (link available below).
2.5 Investments in Cooling Center Signage	ALL	OHRM, VOL		Approximately 1000 yard signs for use at City cooling centers and hydration stations are available for distribution; OHRM staff will be working with departments to distribute signs to individual facilities this week. The Parks department received an initial allocation of 50 signs last week.
2.6 <b>**NEW**</b> Heat Relief Resource Distribution	ALL	OHRM, VOL		Heat relief supplies for distribution to community members and community-based organizations are beginning to arrive. OHRM and VOL staff are coordinating distribution logistics with staff at the PPE warehouse. Most supplies are expected to arrive over the next two weeks. Direct distribution of supplies has started through the We're Cool program; distribution to community-based organizations is expected to begin approximately May 20.
<b>FOCUS AREA 3. Publicly accessible cool space and drinking water</b>				
3.1 Supporting the regional Heat Relief Network	ALL	OHRM, LIBRARY, PARKS, HSD		MAG launched the regional Heat Relief Network map on May 1 (link available later in this document). 42 City facilities are currently participating as Cooling Centers or Hydration Stations, an increase of 5 from the prior week. 14 pools will be added to the network as Hydration Stations when they open on May 29. City Twitter accounts also put out a few social media posts sharing the map and calling for businesses/nonprofits to sign up to become a cooling center.
3.2 Reusable water bottle pilot program	ALL	OHRM, PUBLIC WORKS		Staff are beginning 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		The new sprung structure "Respiro" opened in March and additional restrooms and potable water supply have recently come online.
3.4 New shelter at 28 <sup>th</sup> St. and Washington St.	UNSHELTERED	HSD		Facility preparations are ongoing.
3.5 Provision of portable water tanks	ALL	WATER, OHRM		Staff continue to explore viable options and possible funding sources.
<b>FOCUS AREA 4. Supporting cool and safe home environments</b>				
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. Expansion of the home weatherization program is being considered through ARPA funding.
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.
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		14 pools are scheduled to open on May 29.
5.6 SunBlock Umbrella Distribution	ALL	A&C		Umbrellas are being manufactured using designs sourced from a public art competition. Delivery is anticipated in June.
<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 throughout the 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

### REUSABLE & RECYCLABLE WATER BOTTLE PILOT PROGRAM

Staff from multiple departments including Public Works and Heat Response and Mitigation have been exploring options to offset a portion of the hundreds of thousands of single-use plastic water bottles that are distributed through regional heat relief efforts each summer. With grant funding, the City secured 5,000 reusable aluminum water bottles from Mananalú. Mananalú is a climate neutral certified company and removes the equivalent of one plastic bottle from ocean-going water for each bottle purchased. The bottles are fully reusable and recyclable. These bottles are being distributed through the We’re Cool program and other outreach efforts. Staff have received positive feedback on the bottles to date and will be evaluating bottle re-use as outreach sites are revisited throughout the summer.



## 7. REGIONAL AND NATIONAL HIGHLIGHT

National heat season awareness week is taking place May 16-20, with focused messaging efforts from 9 federal agencies including the CDC, EPA, NOAA, and FEMA. Each day of the campaign focuses on individual aspects of extreme heat and public health, including heat-related illness awareness, personal vulnerability factors, outdoor and indoor workers, active populations and athletes, and prevention and preparedness actions.



Arizona heat awareness week will take place May 23-27, with focused messaging from the state's National Weather Service Offices, the Arizona Department of Health Services, and the City of Phoenix. This year the Governor's Office will issue an official proclamation of May 23-27 as Arizona Heat Awareness Week.



## 8. HEAT SAFETY – DID YOU KNOW?

Heat is the leading cause of weather-related death in Arizona, according to the National Weather Service Phoenix Forecast Office and the Arizona Department of Health Services. Over the period 2010–2020, there were 3,091 heat-related deaths in the state. Flooding ranked as the second leading cause of weather-related death, with a total of 35 cases over the same time period.



## KEY WEBSITES

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

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

[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 the data in this report and suggestions for additional content and analysis may be directed to David Hondula, Director of Heat Response and Mitigation:

[david.hondula@phoenix.gov](mailto:david.hondula@phoenix.gov).

## CITY OF PHOENIX WEEKLY HEAT RESPONSE UPDATE

MONDAY, MAY 23, 2022

REVIEWING MONDAY, MAY 16–SUNDAY, MAY 22

### Summary

The hottest weather of the year is in the forecast for the upcoming week, including the first day with High Heat Risk forecast by the National Weather Service (Thursday, May 26). Extra precautions are needed with the confluence of above-normal temperatures and an extended holiday weekend. Measures of community impact are continuing to trend upwards, with increasing daily call volumes related to heat to the Phoenix Fire Department.

Heat relief supplies are being made more widely available to community organizations beginning this week. The We're Cool program has reached 550 points of contact and spread awareness of heat relief resources and services for homelessness. 23 of the City's 31 heat response programs and services are fully or partially operational. The month of May is concluding with two significant enhancements to the City's heat relief programs: the opening of a new heat relief shelter at 28<sup>th</sup> Street and Washington, and the opening of 14 City pools on May 28.

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

Temperatures returned to near-normal conditions for mid-May after the week began with the hottest stretch of the year to date. Monday, May 16 tied for the hottest day of the year thus far with a high temperature at Sky Harbor Airport of 105°F. The highest low temperature of the year was observed on Wednesday, May 18 and Thursday, May 19, at 75°F. The average daily high temperature for warm season 2022 (April 1 to present) has been 0.42°F warmer than the same period in 2021 and 4.3°F warmer than the climatological normal for the same period.

	Daily High °F	Normal High °F	vs. Normal °F	Daily Low °F	Normal Low °F	vs. Normal °F
Mo May 16	105	94.4	+10.6	74	69.5	+4.5
Tu May 17	102	94.8	+7.2	73	69.8	+3.2
We May 18	103	95.2	+7.8	75	70.1	+4.9
Th May 19	101	95.6	+5.4	75	70.4	+4.6
Fr May 20	99	95.9	+3.1	71	70.7	+0.3
Sa May 21	93	96.3	-3.3	70	71.0	-1.0
Su May 22	97	96.7	+0.3	71	71.3	-0.3

## 100°F AND 110°F DAY TRACKER

	Year to Date	Normal Year to Date
100°F days	7	6.5
110°F days	0	0.03

## HEAT WARNING TRACKER

No Excessive Heat Warnings have been issued year to date. Excessive Heat Warnings have been issued in the month of May in 3 of the past 10 years.

## 2. NATIONAL WEATHER SERVICE FORECAST

The first **High Heat Risk** day of 2022 is in the forecast for the upcoming week with temperatures expected to reach or exceed 105°F on Thursday and Friday. Temperatures are expected to slightly moderate through the weekend, with continuing clear skies and no precipitation.

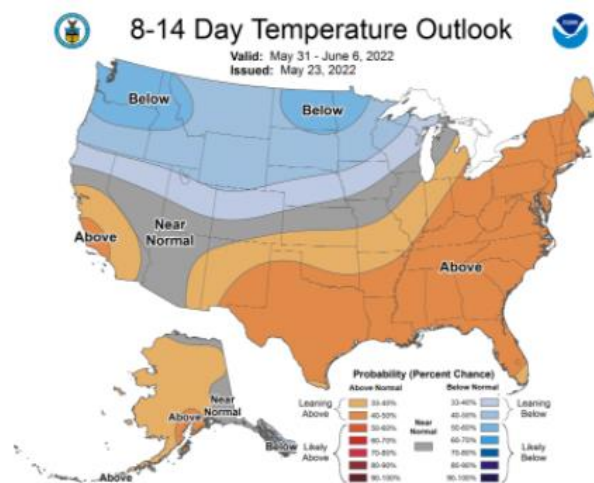
Mon	Tue	Wed	Thu	Fri	Sat	Sun
97	99	103	106	105	104	103
	71	73	75	77	76	76
No risk.	Risk to those extremely sensitive to heat.	Risk to those sensitive to heat.	Risk to most people.	Risk to everyone.		
None	Low	Moderate	High	Very High		

The following week (May 30–June 5) brings equal chances of above- and below-normal temperatures for most of Arizona as the circulation pattern continues to favor hot weather for the eastern and south central United States.

**Above: 32%**  
**Near: 36%**  
**Below: 32%**

Probability of the average temperature during next week being above, near, or below normal.

[Get more from the NOAA/Climate Prediction Center](#)



### 3. HEAT-HEALTH DATA

#### HEAT-RELATED MORTALITY AND MORBIDITY

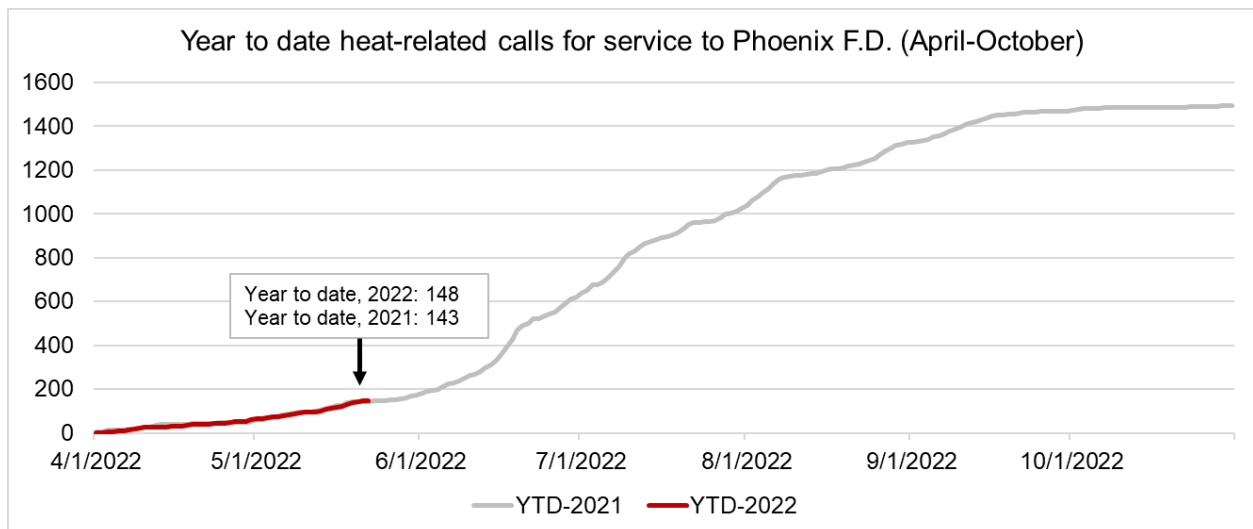
The first heat-associated death of 2022 was confirmed by the Maricopa County Department of Public Health in their May 14 report. This death occurred on April 26, which had a high temperature of 99°F. There are seven additional cases under investigation, compared to three at the same time last year. MCDPH 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 36 calls for service identified by the dispatcher to be related to heat over the previous week. This represented an increase of 11 cases (44%) above the week prior. Advanced life support systems were deployed for 12 of the 36 calls. In 2021, the same 7-day period had 25 calls for service related to heat, with considerably lower temperatures. Thursday, May 19 (high temperature 101°F), had 10 heat-related calls for service, representing the highest daily call volume year to date. 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 tracking closely with 2021 (see figure below).



## 4. COMMUNITY SEARCH DATA

### PHOENIX 3-1-1

There were 15 resident inquiries made through Phoenix 3-1-1 for the period May 16–20 that were related to summer heat, a decrease of 4 calls from the week prior. As in previous weeks, most calls were related to swimming pools, including inquiries about dates and hours for City pools, as well as questions about pool permits and pool inspections. One referral was made to the Neighborhood Services Department Home Repair program after a question about air conditioning replacement.

### ARIZONA 2-1-1






Requests for electrical utility assistance fielded by Arizona 2-1-1 reached the highest volume of the 2022 warm season last week, with 162 calls from Maricopa County. This represented an approximately 50% increase over the daily call rate for electrical utility assistance in the month of April.

### 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 continue to show modest increases in searches related to heat exhaustion, heat stroke, and swimming pools, and inquiries related to air conditioning are beginning to increase as well. There is no clear trend in searches related to cooling centers or heat warnings.

## 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 (13 programs)
	Partially operational (10 programs)
	Planning and preparation (8 programs)
	No action to date (0 programs)
	No information available this week (0 programs)

City of Phoenix Heat Response Programs and Services – Summer 2022				
Initiative	Target population	Lead depts.	Status	Updates
<b>FOCUS AREA 1. Situational awareness at City Hall and real-time response</b>				
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		Data from 2-1-1 have been included in this week's report; more search terms and customized analysis will be added in future reports.
1.3 Real-time monitoring of weather and health data with Arizona 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 leveraging search data for public health	ALL	OHRM		Pilot dashboard in development. Additional planning conversations forthcoming.
1.6 Weekly status reports	CITY DEPTS	OHRM		Third report distributed May 23.
<b>FOCUS AREA 2. Public engagement, communications, and outreach</b>				
2.1 Multi-platform Heat Safety Messaging	ALL	COMMS, OHRM		Summer safety messaging continues to be posted through social media channels and updates to summer and heat safety sections of relevant City websites. Approximately 20 heat-relevant posts were issued on City Twitter accounts again this week, many of which continued to focus on volunteer recruitment. City staff are helping to promote Arizona Heat Awareness week (May 23-27) with the Arizona Department of Health Services and National Weather Service. The Communications Office is holding Summer Safety Media Day on May 26.
2.2 We're Cool Volunteer Program	UNSHeltered , HIKERS	VOL, OHRM, FIRE		9 outreach shifts have been completed season to date, with 6 focusing on street outreach and 3 at City trailheads. Approximately 550 contacts have been made through this program with 700 water bottles distributed thus far. Additional supplies distributed include hats, sunscreen, cooling center maps, heat safety cards, cooling towels, misters, and umbrellas. Staff from OHRM, HSD, VOL, and FIRE, and volunteers from CERT have participated. Volunteer recruitment, onboarding, training, and coordination is ongoing.
2.3 Cool Callers Volunteer Program	LIVING ALONE, LIMITED COOLING	VOL, OHRM		Volunteer recruitment and onboarding is ongoing, with training scheduled for the week of May 23. Telephones for volunteer use have been secured and caller protocol are being developed.
2.4 Let's Talk Heat Booklet	ALL	A&C		Booklets are being printed and are expected to ready for distribution at community events this month. A digital version is available on the City website (link available below).
2.5 Investments in Cooling Center Signage	ALL	OHRM, VOL		Approximately 1000 yard signs for use at City cooling centers and hydration stations are available for distribution; OHRM staff are working with departments to distribute signs to City facilities and community partners.



2.6 <b>**NEW**</b> Heat Relief Resource Distribution	ALL	OHRM, VOL		Heat relief supplies for distribution to community members and community-based organizations are arriving and being prepared for distribution. OHRM and VOL staff are coordinating distribution logistics with staff at the PPE warehouse. Direct distribution of supplies has started through the We're Cool program. The opportunity for community groups to access resources was shared at the Arizona Heat Resilience Work Group meeting last week and will be more widely announced this week once the digital request platform is finalized with ASU
<b>FOCUS AREA 3. Publicly accessible cool space and drinking water</b>				
3.1 Supporting the regional Heat Relief Network	ALL	OHRM, LIBRARY, PARKS, HSD		MAG launched the regional Heat Relief Network map on May 1 (link available later in this document). 42 City facilities are currently participating as Cooling Centers or Hydration Stations, an increase of 5 from the prior week. 14 pools will be added to the network as Hydration Stations when they open on May 28.
3.2 Reusable water bottle pilot program	ALL	OHRM, PUBLIC WORKS		Staff are beginning 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		The new sprung structure "Respiro" opened in March and additional restrooms and potable water supply have recently come online.
3.4 New shelter at 28 <sup>th</sup> St. and Washington St.	UNSHELTERED	HSD		The shelter opened last week and is onboarding initial clients.
3.5 Provision of portable water tanks	ALL	WATER, OHRM		Staff continue to explore viable options and possible funding sources.
<b>FOCUS AREA 4. Supporting cool and safe home environments</b>				
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. Expansion of the home weatherization program is being considered through ARPA funding.
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.
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		14 pools are scheduled to open on May 28.

5.6 SunBlock Umbrella Distribution	ALL	A&C		Umbrellas are being manufactured using designs sourced from a public art competition. Delivery is anticipated in June.
<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 throughout the 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

### HEAT RELIEF SHELTER OPENS AT 28<sup>TH</sup> STREET & WASHINGTON

The City of Phoenix has partnered with Maricopa County, Saint Vincent DePaul, and Community Bridges, Inc., to open and operate a new shelter that will provide day and nighttime heat relief for up to 200 people experiencing homelessness. The facility, owned by the City of Phoenix, is located near 28th and Washington Streets. The shelter is a closed campus, meaning there are no walk-up services and clients need to be referred to the facility by a caseworker. One unique aspect of this project is it prioritizes serving people experiencing homelessness in the surrounding neighborhood. People staying at the facility will have dedicated beds to sleep in, access to three meals each day, showers, and a secure place to store their belongings. Pets are also welcome. St. Vincent de Paul will operate the center and provide comprehensive case management services to each resident. Staff will be able to assist individuals with obtaining identification, accessing medical and financial services and connecting to employment and housing opportunities. (Content from 5/19 City press release)



## 7. REGIONAL AND NATIONAL HIGHLIGHT

Arizona Heat Awareness Week is taking place May 23-27, with focused messaging from the state’s National Weather Service Offices, the Arizona Department of Health Services, and the City of Phoenix. This year the Governor’s Office has officially proclaimed May 23-27 as Arizona Heat Awareness Week, which catalyzed several news stories promoting heat safety from outlets across the state.



## 8. HEAT SAFETY – DID YOU KNOW?

The National Weather Service is the agency responsible for issuing Excessive Heat Warnings to our community. The Excessive Heat Warnings often trigger additional messaging and protective actions from partnering agencies, including the City of Phoenix. The National Weather Service Phoenix Forecast Office uses the HeatRisk tool for determining when to issue Excessive Heat Warnings.



The HeatRisk tool uses a combination of information about how hot conditions are relative to climatology, as well as how they compare to critical thresholds for human health based on CDC analysis of hospitalization records. There were 20 days with Excessive Heat Warnings in effect in the Phoenix area in 2021, and the first date with one in effect was June 12. More information about HeatRisk is available online: <https://www.wrh.noaa.gov/wrh/heatrisk/>.

## KEY WEBSITES

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

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

[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 the data in this report and suggestions for additional content and analysis may be directed to David Hondula, Director of Heat Response and Mitigation:

[david.hondula@phoenix.gov](mailto:david.hondula@phoenix.gov).

## CITY OF PHOENIX WEEKLY HEAT RESPONSE UPDATE

TUESDAY, MAY 31, 2022

REVIEWING MONDAY, MAY 23–SUNDAY, MAY 29

### Summary

The month of May concluded with another warmer-than-normal week. Temperatures have yet to reach thresholds for Excessive Heat Warnings from the National Weather Service, but the warm season is running multiple degrees warmer than normal and nearly 1°F hotter than 2021. While the upcoming week is forecast to bring conditions similar to recent weeks, temperatures are expected to push even higher for the first full week of June, with conditions favorable to reaching 110°F by June 10.

The Phoenix Fire Department saw another week of increasing call volumes related to heat and 2-1-1 data showed another increase in calls for electrical utility assistance. Heat relief supplies will begin to be distributed to community organizations this week and an [online form](#) to request supplies has been circulated. 24 of the City's 31 heat response programs and services are now fully or partially operational, with multiple programs moved to fully operational status over the past week.

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

Temperatures continued to slowly push higher last week with a new year-to-date high of 106°F observed on Friday, May 27. The week also brought a new highest low temperature of the year of 79°F on the same day. The end of the week brought a brief respite with below normal temperatures for the latter part of Memorial Day weekend. The average daily high temperature for warm season 2022 (April 1 to present) is now 0.92°F warmer than the same period in 2021 and 4.1°F warmer than the climatological normal for the same period.

	Daily High °F	Normal High °F	vs. Normal °F	Daily Low °F	Normal Low °F	vs. Normal °F
Mon 05-23	97	97.1	-0.1	69	71.6	-2.6
Tues 05-24	99	97.5	1.5	73	71.9	1.1
Weds 05-25	103	97.8	5.2	75	72.2	2.8
Thurs 05-26	105	98.2	6.8	78	72.5	5.5
Fri 05-27	106	98.6	7.4	79	72.7	6.3
Sat 05-28	102	98.9	3.1	77	73.0	4.0
Sun 05-29	95	99.3	-4.3	77	73.3	3.7

## 100°F AND 110°F DAY TRACKER

	Year to Date	Normal Year to Date
100°F days	11	8.8
110°F days	0	0.16

## HEAT WARNING TRACKER

No Excessive Heat Warnings have been issued year to date. Excessive Heat Warnings have been issued in the month of June every year since 2009. The first Excessive Heat Warning of 2021 was issued on June 12 and lasted for 9 days.

## 2. NATIONAL WEATHER SERVICE FORECAST

Low to moderate Heat Risk is forecast for the upcoming week, and another weekend weather system will bring a slight reprieve from the heat with breezy conditions. The short-term forecast remains devoid of any precipitation.

Wed	Thu	Fri	Sat	Sun	Mon	Tue
101	105	104	103	103	105	107
73	74	76	76	76	78	80

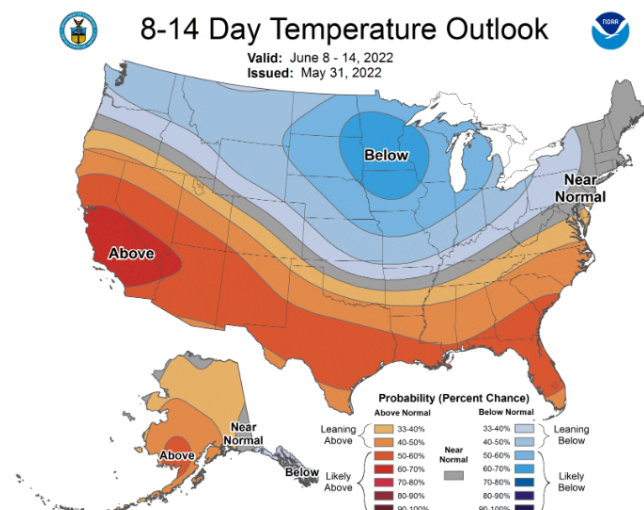
No risk.	Risk to those extremely sensitive to heat.	Risk to those sensitive to heat.	Risk to most people.	Risk to everyone.
None	Low	Moderate	High	Very High

The following week (June 6–June 12) brings a high likelihood of experiencing the hottest weather of the year thus far. Conditions are favorable for an arrival of the first 110°F day of the year close to the climatological normal of June 11.

**Above: 55%**  
**Near: 33%**  
**Below: 12%**

Probability of the average temperature during next week being above, near, or below normal.

[Get more from the NOAA/Climate Prediction Center](#)



### 3. HEAT-HEALTH DATA

#### HEAT-RELATED MORTALITY AND MORBIDITY

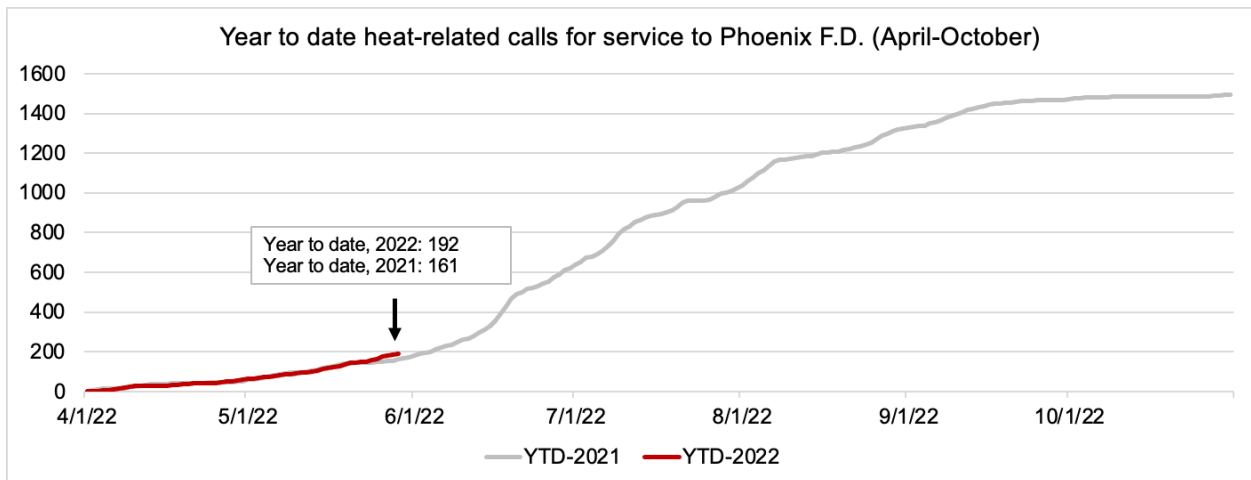
The Maricopa County Department of Public Health continues to report one confirmed heat-associated death for 2022. There are 12 additional cases under investigation, an addition of 5 cases from the prior report. MCDPH heat-health reports are available online:

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

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

The Phoenix Fire Department responded to 44 calls for service identified by the dispatcher to be related to heat over the previous week. This represented an increase of 8 cases (22%) above the week prior. Advanced life support systems were deployed for 14 of the 44 calls. In 2021, the same 7-day period had 18 calls for service related to heat, with much lower temperatures. Thursday, May 26 (high temperature 105°F), had 12 heat-related calls for service, setting a new high for daily call volume year to date. 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 20% higher than 2021.



## 4. COMMUNITY SEARCH DATA

### PHOENIX 3-1-1

There were 14 resident inquiries made through Phoenix 3-1-1 for the period May 23–27 that were related to summer heat, a decrease of 1 call from the week prior. The majority of calls continued to be related to public and private swimming pools. One inquiry was made regarding air conditioner repair and replacement programs that was referred to Neighborhood Services.

### ARIZONA 2-1-1






Requests for electrical utility assistance fielded by Arizona 2-1-1 again reached the highest volume of the 2022 warm season last week, with 182 calls from Maricopa County.

### 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. Staff worked with Google team members over the past week to provide data and parameters to help build the dashboard. Publicly available Google Trends data for Arizona continue to show modest increases in searches related to heat exhaustion, heat stroke, and swimming pools, and inquiries related to air conditioning have continued to increase as well. There is no clear trend in searches related to cooling centers or heat warnings.

## 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 (19 programs)
	Partially operational (5 programs)
	Planning and preparation (7 programs)
	No action to date (0 programs)
	No information available this week (0 programs)

City of Phoenix Heat Response Programs and Services – Summer 2022				
Initiative	Target population	Lead depts.	Status	Updates
<b>FOCUS AREA 1. Situational awareness at City Hall and real-time response</b>				
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.
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 forthcoming.
1.6 Weekly status reports	CITY DEPTS	OHRM		Fourth report distributed May 31, following the Memorial Day holiday.
<b>FOCUS AREA 2. Public engagement, communications, and outreach</b>				
2.1 Multi-platform Heat Safety Messaging	ALL	COMMS, OHRM		Summer safety messaging continues to be posted through social media channels and updates to relevant City websites. The Parks and Fire Departments included additional heat safety content on their feeds following multiple heat-related mountain rescues in recent weeks. Additional content was created at the Summer Safety Media Day on May 26.
2.2 We're Cool Volunteer Program	UNSHELTERED, HIKERS	VOL, OHRM, FIRE		13 outreach shifts have been completed, with 9 focusing on street outreach and 4 at City trailheads. Approximately 700 contacts have been made through this program with nearly 900 water bottles distributed. Additional supplies distributed include hats, sunscreen, cooling center maps, heat safety cards, cooling towels, misters, and umbrellas. Staff from OHRM, HSD, VOL, and FIRE, and volunteers from CERT have participated. Volunteer recruitment, onboarding, training, and coordination is ongoing.
2.3 Cool Callers Volunteer Program	LIVING ALONE, LIMITED COOLING	VOL, OHRM		Volunteer training is underway. Telephones for volunteer use have been secured and caller protocol are being developed.
2.4 Let's Talk Heat Booklet	ALL	A&C		Booklets are being printed and are expected to ready for distribution at community events soon. 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 <b>**NEW**</b> Heat Relief Resource Distribution	ALL	OHRM, VOL		Distribution of heat relief supplies to community organizations is beginning this week. A form to request supplies was circulated on May 31.
<b>FOCUS AREA 3. Publicly accessible cool space and drinking water</b>				
3.1 Supporting the regional Heat Relief Network	ALL	OHRM, LIBRARY,		56 City facilities are participating as cooling centers or hydration stations. Staff from multiple departments are



		PARKS, HSD		supporting Heat Relief Network participation, including managing water distribution.
3.2 Reusable water bottle pilot program	ALL	OHRM, PUBLIC WORKS		Staff are beginning 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		Planned improvements for 2022 have largely been implemented. Staff 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 continuing to onboard new clients.
3.5 Provision of portable water tanks	ALL	WATER, OHRM		Staff continue to explore viable options and possible funding sources.
<b>FOCUS AREA 4. Supporting cool and safe home environments</b>				
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. Expansion of the home weatherization program is being considered through ARPA funding.
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.
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		Umbrellas are being manufactured using designs sourced from a public art competition. Delivery is anticipated in June.
<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 throughout the 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

Summer Safety Media Day: The City's Communications Office organized a well-attended Summer Safety Media Day on May 26. The event featured exhibits and demonstrations from several City departments and external partners including APS, SRP, and the National Weather Service. The City live-streamed portions of the event, and multiple media outlets gathered interviews and footage that will be used throughout the summer to raise awareness of summer safety measures, including those for heat safety. Councilwoman Guardado was among City leadership in attendance, pictured with Parks staff promoting Take a Hike, Do it Right.



## 7. REGIONAL AND NATIONAL HIGHLIGHT

The Maricopa Association of Governments coordinates the regional Heat Relief Network web map. This year's map includes improved features, including a toggle button to help users identify cooling centers and hydration stations that are open at the time a user is searching. There are more than 160 locations participating in the Heat Relief Network thus far in 2022.



## 8. HEAT SAFETY – DID YOU KNOW?

The National Institute for Occupational Safety and Health recommends drinking 24-32 ounces of water *per hour* when working in the heat. Attention to urine color can help individuals monitor their hydration status, with darker colors typically indicating a more dehydrated status. Drinking more than 48 ounces of fluid per hour is not recommended, as it could pose additional risks related to the body's salt balance.

## 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).

**CITY OF PHOENIX WEEKLY HEAT RESPONSE UPDATE**  
**MONDAY, JUNE 6, 2022**

REVIEWING MONDAY, MAY 30–SUNDAY, JUNE 5

**Summary**

After a short spell of below-average temperatures, **the first major heat event of summer 2022 will arrive this week.** Temperatures are likely to set year-to-date highs as early as Tuesday, and daily records may be threatened over the upcoming weekend. The National Weather Service has issued an Excessive Heat Watch beginning the morning of Wednesday, June 8. This Watch is very likely to be converted to an Excessive Heat Warning.

Heat impacts over the previous week held steady or declined from the week prior, likely due to the slightly lower temperatures. 24 of the City’s 31 heat response programs and services are fully or partially operational, with one new program moved to fully operational status over the past week. Over the past week, the City has allocated more than 18,000 heat relief supplies to 18 different community organizations that serve vulnerable residents. Many supplies have already been collected by community organizations and distributed to the public.

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

The previous week brought temperatures very close to the seasonal normals, with lower high temperatures than had been observed over the previous two weeks. The average daily high temperature for warm season 2022 (April 1 to present) is now 0.35°F warmer than the same period in 2021 and 3.6°F warmer than the climatological normal for the same period.

	Daily High °F	Normal High °F	vs. Normal °F	Daily Low °F	Normal Low °F	vs. Normal °F
Sun 5-30	95	99.7	-4.7	73	73.6	-0.6
Mon 5-31	97	100.0	-3.0	72	73.9	-1.9
Tues 6-01	100	100.4	-0.4	72	74.2	-2.2
Weds 6-02	103	100.7	2.3	73	74.5	-1.5
Thurs 6-03	103	101.0	2.0	76	74.8	1.2
Fri 6-04	101	101.4	-0.4	76	75.1	0.9
Sat 6-05	102	101.7	0.3	78	75.4	2.6

## 100°F AND 110°F DAY TRACKER

	Year to Date	Normal Year to Date
100°F days	16	13.5
110°F days	0	0.7

## HEAT WARNING TRACKER

No Excessive Heat Warnings have been issued year to date. Excessive Heat Warnings have been issued in the month of June every year since 2009. The first Excessive Heat Warning of 2021 was issued on June 12 and lasted for 9 days.

## 2. NATIONAL WEATHER SERVICE FORECAST

High and Very High Heat Risk are forecast beginning on Wednesday. Consequently, the National Weather Service has issued the first Excessive Heat Watch of the season for the Phoenix Metropolitan Area. The watch is in effect beginning 9am Wednesday, June 8 and is currently in effect through Monday, June 13. The Watch is very likely to be converted to an Excessive Heat Warning in an upcoming forecast. The highest temperatures of the season are in the forecast, with year to date highs anticipated as early as Tuesday and temperatures approaching 115°F over the weekend.

Mon	Tue	Wed	Thu	Fri	Sat	Sun
105	107	109	110	111	113	113
	81	82	84	85	87	86

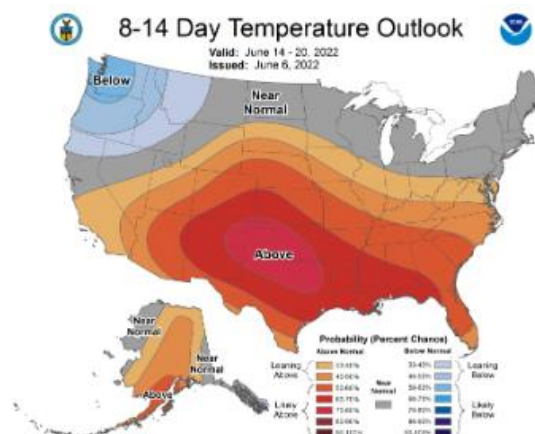
No risk.	Risk to those extremely sensitive to heat.	Risk to those sensitive to heat.	Risk to most people.	Risk to everyone.
None	Low	Moderate	High	Very High

The following week (June 14–June 20) remains favorable for above-average conditions, with a high chance of daily maximum temperatures consistently reaching or exceeding 110°F.

**Above: 54%**  
**Near: 33%**  
**Below: 13%**

Probability of the average temperature during next week being above, near, or below normal.

[Get more from the NOAA/Climate Prediction Center](https://www.noaa.gov/climate-prediction-center)



### 3. HEAT-HEALTH DATA

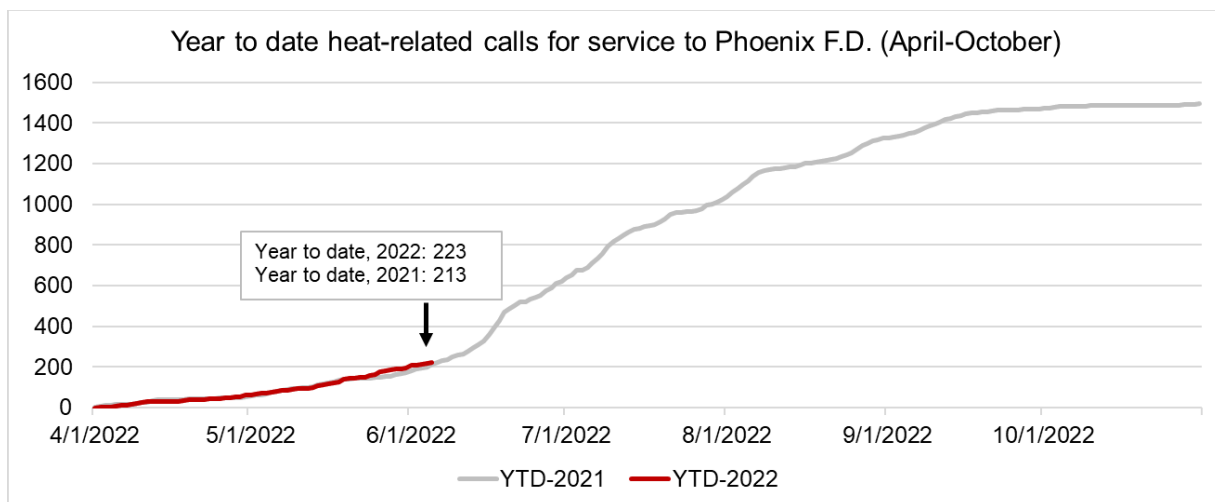
#### HEAT-RELATED MORTALITY AND MORBIDITY

The Maricopa County Department of Public Health continues to report one confirmed heat-associated death for 2022. As of their May 28 report, there are 21 additional cases under investigation, an addition of 9 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 31 calls for service identified by the dispatcher to be related to heat over the previous week. This represented a decrease of 13 cases (30%) below the week prior. Advanced life support systems were deployed for 11 of the 31 calls. In 2021, the same 7-day period had 52 calls for service related to heat, with considerably higher temperatures. Wednesday, June 1 (high temperature 103°F), had 12 heat-related calls for service, tying the high daily call volume year to date. 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 5% higher than 2021.



## 4. COMMUNITY SEARCH DATA

### PHOENIX 3-1-1

There were 21 resident inquires made through Phoenix 3-1-1 for the period May 31–June 3 that were related to summer heat, an increase of 7 calls from the week prior. While the majority of calls continued to be related to public and private swimming pools, other calls helped connect residents to the City’s landlord-tenant and home repair programs, arrange for removal of a downed tree on a public street, and to replace a sun-damaged trash container. One heat-related media request also came to the 3-1-1 line.

### ARIZONA 2-1-1






Requests for electrical utility assistance fielded by Arizona 2-1-1 were slightly lower than the previous week, with 170 calls from Maricopa County.

### 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 continue show that search inquiries related to heat exhaustion, heat stroke, swimming pools, and air conditioners held steady compared to the week prior. There remains no clear trend in searches related to cooling centers or heat warnings.

## 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 (20 programs)
	Partially operational (4 programs)
	Planning and preparation (7 programs)
	No action to date (0 programs)
	No information available this week (0 programs)

City of Phoenix Heat Response Programs and Services – Summer 2022				
Initiative	Target population	Lead depts.	Status	Updates
<b>FOCUS AREA 1. Situational awareness at City Hall and real-time response</b>				
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.
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 forthcoming.
1.6 Weekly status reports	CITY DEPTS	OHRM		Fifth report distributed June 6.
<b>FOCUS AREA 2. Public engagement, communications, and outreach</b>				
2.1 Multi-platform Heat Safety Messaging	ALL	COMMS, OHRM		Summer safety messaging has transitioned to full operational mode. #PHXSummer will be a common tag across heat and monsoon safety posts. New content produced by the Communication team will be added to relevant channels over the coming weeks. City accounts have already been actively messaging for the upcoming heat event.
2.2 We're Cool Volunteer Program	UNSHELTERED, HIKERS	VOL, OHRM, FIRE		17 outreach shifts have been completed, with 12 focusing on street outreach and 5 at City trailheads. More than 800 contacts have been made through this program with nearly 1000 water bottles distributed. Additional supplies distributed include 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 have participated. Several volunteers were trained over the past two weeks and additional recruitment and onboarding is ongoing.
2.3 Cool Callers Volunteer Program	LIVING ALONE, LIMITED COOLING	VOL, OHRM		Volunteer training is underway. Telephones for volunteer use have been secured and caller protocol are being developed. Public enrollment is anticipated to open this week.
2.4 Let's Talk Heat Booklet	ALL	A&C		Booklets are being printed and are expected to ready for distribution at community events soon. 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 <b>**NEW**</b> Heat Relief Resource Distribution	ALL	OHRM, VOL		Distribution of heat relief supplies to community organizations continues this week. Nearly 20 organizations have been allocated supplies with more than 18,000 individual items committed.
<b>FOCUS AREA 3. Publicly accessible cool space and drinking water</b>				
3.1 Supporting the regional Heat Relief Network	ALL	OHRM, LIBRARY,		56 City facilities are participating as cooling centers or hydration stations. Staff from multiple departments are

		PARKS, HSD		supporting Heat Relief Network participation, including managing water distribution.
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		Planned improvements for 2022 have largely been implemented. Staff 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 continuing to onboard new clients.
3.5 Provision of portable water tanks	ALL	WATER, OHRM		Staff continue to explore viable options and possible funding sources.
<b>FOCUS AREA 4. Supporting cool and safe home environments</b>				
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. Expansion of the home weatherization program is being considered through ARPA funding.
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. Closure of Piastewa Peak and Camelback summit trailheads during 11am-5pm is anticipated for several days during the upcoming heat event.
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		Umbrellas are being manufactured using designs sourced from a public art competition. Delivery is anticipated in June.
<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 throughout the 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

Community Heat Relief Supplies: The City of Phoenix is providing heat relief supplies this summer to community organizations that serve vulnerable populations. This effort is supported by staff from Finance, Heat Response and Mitigation, and Volunteer Programs. To date, 18 non-profit and faith-based organizations have been granted supplies, including Andre House, Community Bridges, Arizona Faith Network, and Street Medicine Phoenix. These 18 organizations have been allocated more than 18,750 items for the public and another 103 items to support their operations. Community organizations can request supplies at <https://bit.ly/phxheatrelief>.



## 7. REGIONAL AND NATIONAL HIGHLIGHT

The Human Services Campus organizes a ThirstAid water drive on the first Saturday of each month. Water and hygiene item donations are accepted from 9:00 a.m. to noon on collection days through the end of September. The Human Services Campus distributes approximately 2,000 water bottles daily to people experiencing homelessness on and in the vicinity of the Campus. The Human Services Campus is a nonprofit agency that operates a 13-acre campus home to 16 nonprofit organizations serving people experiencing homelessness.



## 8. HEAT SAFETY – DID YOU KNOW?

Young children are among the groups more vulnerable to heat illness, including heat stroke. They are more physiologically susceptible than many adults because of their higher surface area to body mass ratio, among other factors. As result, children can quickly dehydrate. Signs of dehydration in children include reduced physical activity, crying without tears, and dry mouth. Learn more about children’s health and heat here: <https://www.epa.gov/children/protecting-childrens-health-during-and-after-natural-disasters-extreme-heat>.

## 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).

**CITY OF PHOENIX WEEKLY HEAT RESPONSE UPDATE**  
**MONDAY, JUNE 13, 2022**

REVIEWING MONDAY, JUNE 6–SUNDAY, JUNE 12

**Summary**

The first major heat event of the season set and tied multiple records for daytime and overnight temperatures and caused significant public health impacts. Among the records, the high temperature on June 11 was 114°F, tying a record set in 1918. An Excessive Heat Watch is in effect for Thursday, June 16, but significant cooling is expected for the weekend with a chance of thunderstorms and rain.

Heat-related calls to the Phoenix Fire Department spiked last week. The 136 calls received between June 6 and 12 accounted for more than one-third of all heat-related calls received this year. The City continues to expand its heat response programs and services. 25 of the City’s 31 heat response programs and services are fully or partially operational, with another program moved to fully operational status last week. New heat relief options including an air conditioned tent were added in the vicinity of the Human Services Campus to help people experiencing homelessness.

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

The previous week brought seven straight days of above normal temperatures. Daily highs consistently reached 105°F or above, and there were three straight days at 113°F and above at the end of the week. This stretch pushed the average daily high temperature for warm season 2022 (April 1 to present) up to 0.92°F warmer than the same period in 2021 and 3.9°F warmer than the climatological normal for the same period.

	Daily High °F	Normal High °F	vs. Normal °F	Daily Low °F	Normal Low °F	vs. Normal °F
Mon 6-06	105	102	3	79	75.7	3.3
Tues 6-07	107	102.3	4.7	missing	76	missing
Weds 6-08	110	102.6	7.4	84	76.3	7.7
Thurs 6-09	109	102.9	6.1	84	76.6	7.4
Fri 6-10	113	103.2	9.8	87	77	10
Sat 6-11	114	103.5	10.5	90	77.3	12.7
Sun 6-12	113	103.7	9.3	87	77.6	9.4

## 100°F AND 110°F DAY TRACKER

	Year to Date (2022)	Year to Date (2020)	Normal Year to Date
100°F days	23	29	18.1
110°F days	4	5	1.2

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

The first Excessive Heat Warning of the year was in effect for 5 days last week (Wednesday June 8 – Sunday June 12). Last summer, Excessive Heat Warnings were in effect for 9 days in the month of June. The record for Excessive Heat Warning days in June is 14, set in 2017.

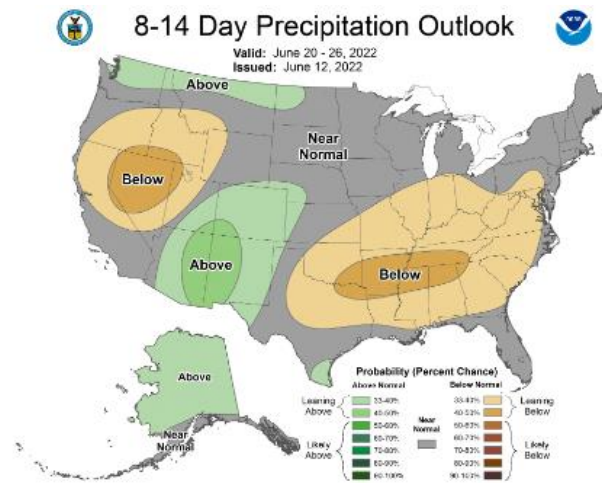
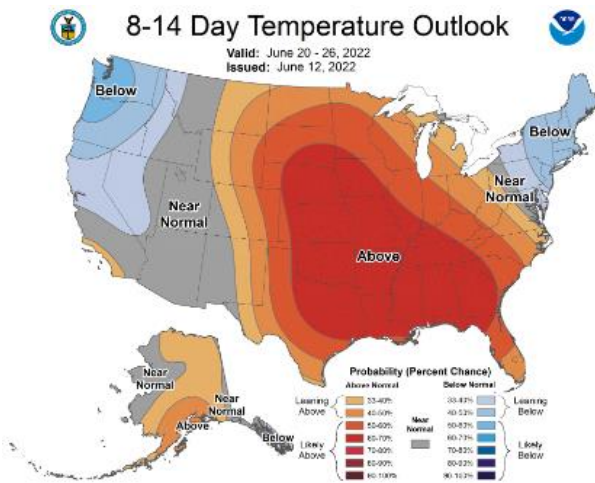
## 2. NATIONAL WEATHER SERVICE FORECAST

There are no Very High Heat Risk days in the forecast for the upcoming week, but every day will have at least Moderate to High Heat Risk. Thursday is forecast to be the hottest day and could have an Excessive Heat Warning in effect, with an Excessive Heat Watch issued as early as today. Forecast models continue to support a major shift in the weather pattern heading into the weekend that would bring a significant increase in moisture and a reasonable chance for the first precipitation of the warm season.

Mon	Tue	Wed	Thu	Fri	Sat	Sun
107	105	108	114	110	104	104
	82	80	81	87	86	82

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 (June 20–June 26) has near-normal temperatures and conditions favorable for above-average precipitation.



### 3. HEAT-HEALTH DATA

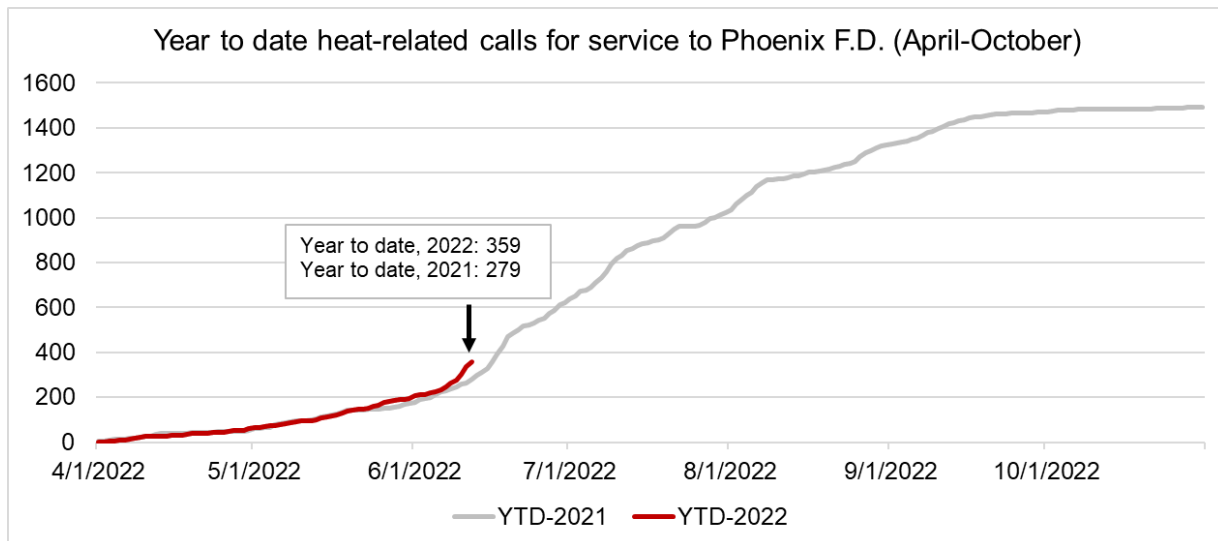
#### HEAT-RELATED MORTALITY AND MORBIDITY

The Maricopa County Department of Public Health continues to report one confirmed heat-associated death for 2022. As of their June 4 report, there are 29 additional cases under investigation, an addition of 9 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 136 calls for service identified by the dispatcher to be related to heat over the previous week. This represented an increase of 105 cases (339%) above the week prior. Advanced life support systems were deployed for 40 of the 136 calls. In 2021, the same 7-day period had 52 calls for service related to heat, with considerably lower temperatures. Saturday, June 11 (high temperature 114°F), had 38 heat-related calls for service, setting a new daily high for the year by a significant margin. 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 29% higher than 2021.



## 4. COMMUNITY SEARCH DATA

### PHOENIX 3-1-1

There were 16 resident inquires made through Phoenix 3-1-1 for the period June 6–June 10 that were related to summer heat, a decrease of 5 calls from the week prior. The majority of calls continued to be related to public and private swimming pools. For the first time this summer a 311 call was received with a report of a dehydrated individual, which was referred to 911. Another call was received related to trailhead closures associated with the Excessive Heat Warning.

### ARIZONA 2-1-1






Requests for electrical utility assistance fielded by Arizona 2-1-1 increased over the previous week, with 213 calls placed in Maricopa County.

### 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 sharp increase in search inquiries related to heat exhaustion, heat stroke, air conditioners, and heat warnings. There was a moderate increase in searches for swimming pools and no clear trend in searches related to 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 (21 programs)
	Partially operational (4 programs)
	Planning and preparation (6 programs)
	No action to date (0 programs)
	No information available this week (0 programs)

City of Phoenix Heat Response Programs and Services – Summer 2022				
Initiative	Target population	Lead depts.	Status	Updates
<b>FOCUS AREA 1. Situational awareness at City Hall and real-time response</b>				
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.
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 forthcoming.
1.6 Weekly status reports	CITY DEPTS	OHRM		Sixth report distributed June 13.
<b>FOCUS AREA 2. Public engagement, communications, and outreach</b>				
2.1 Multi-platform Heat Safety Messaging	ALL	COMMS, OHRM		Summer safety messaging has transitioned to full operational mode. More than 20 heat-related posts appeared on the City's primary Twitter account over the previous week, including new content produced by the Communications team this year.
2.2 We're Cool Volunteer Program	UNSHELTERED , HIKERS	VOL, OHRM, FIRE		22 outreach shifts have been completed, with 17 focusing on street outreach and 5 at City trailheads. More than 1100 contacts have been made through this program with nearly 1300 water bottles distributed. Additional supplies distributed include 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 have participated. APS contributed 7 volunteers for one shift the previous week and has committed to additional engagement.
2.3 Cool Callers Volunteer Program	LIVING ALONE, LIMITED COOLING	VOL, OHRM		Public enrollment has opened and volunteer training is underway. The first program participant signed up on June 10.
2.4 Let's Talk Heat Booklet	ALL	A&C		Booklets are being printed and are expected to ready for distribution at community events soon. 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 <b>**NEW**</b> Heat Relief Resource Distribution	ALL	OHRM, VOL		Distribution of heat relief supplies to community organizations continues this week. More than 25 organizations have been allocated supplies with more than 20,000 individual items committed.
<b>FOCUS AREA 3. Publicly accessible cool space and drinking water</b>				
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.

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.
<b>FOCUS AREA 4. Supporting cool and safe home environments</b>				
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. Expansion of the home weatherization program is being considered through ARPA funding.
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. Closure of Piestewa Peak and Camelback summit trailheads during 11am-5pm is anticipated for several days during the upcoming heat event.
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		Umbrellas are being manufactured using designs sourced from a public art competition. Delivery is anticipated in June.
<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 throughout the 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

New Cooling Tent near Human Services Campus: Ahead of the first major heat event of the season, the City of Phoenix spearheaded an effort to add new heat relief options for people experiencing homelessness in the vicinity of the Human Services Campus. A new air-conditioned enclosed tent provides seating capacity for approximately 100 people and will be open daily through September. Staff members from Human Services, the City Manager's Office, Volunteer Programs, Parks and Recreation, Heat Response and Mitigation, and the Office of Council District 7 supported the launch of the new amenities. Public transit provided a City bus that added additional cooling capacity over the weekend.



## 7. REGIONAL AND NATIONAL HIGHLIGHT

The City of Tempe is operating a mobile cooling center called “Jenny’s Trailer” this summer. The 20-foot trailer is powered by solar energy and includes air conditioning, Wifi, and cold water. Funding was provided by multiple partners including the Honorable Jenny Norton and Arizona State University.



## 8. HEAT SAFETY – DID YOU KNOW?

Research regarding the efficacy of fans as cooling strategies continues to evolve. At temperatures of 100°F and above, with low humidity, fans can be counterproductive cooling strategies for older individuals because they accelerate dehydration and convective heat gain. Young healthy adults can safely use fans with air temperatures at 108°F or below.

## 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).



## CITY OF PHOENIX WEEKLY HEAT RESPONSE UPDATE

TUESDAY, JUNE 21, 2022

REVIEWING MONDAY, JUNE 13-SUNDAY, JUNE 19

### Summary

Variability dominated regional weather conditions over the past week. Near-normal conditions to start the week gave way to a brief hot spell with temperatures eclipsing 110°F for two consecutive days. However, the week ended with temperatures well below normal, with some locations in the metropolitan area recording measurable precipitation. Near-normal conditions dominate the upcoming forecast period.

Heat-related calls to the Phoenix Fire Department were significantly reduced last week but still averaged more than 10 per day. This reduction helped bring year-to-date calls **below** the pace from 2021. Several additional suspected heat-related deaths were added to the Maricopa County records. 2-1-1 call data showed a considerable increase in inquiries related to electrical utility assistance. 25 of the City's 31 heat response programs and services are fully or partially operational.

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

A wide range of temperatures were observed over the previous week, peaking at 113°F on Thursday before daily highs dipped well below normal over the weekend. The daily low of 90°F on Monday, June 13 marked the third time this year that temperatures have not dropped below 90°F at night. After the previous week, the average temperature for warm season 2022 (April 1 to present) is now comparable to the same period in 2021 (0.04°F warmer). Summer to date temperatures are 3.7°F higher than the climatological normal for the same period.

	Daily High °F	Normal High °F	vs. Normal °F	Daily Low °F	Normal Low °F	vs. Normal °F
Mon 6-13	108	104	4	90	77.9	12.1
Tues 6-14	105	104.2	0.8	82	78.2	3.8
Weds 6-15	107	104.5	2.5	81	78.5	2.5
Thurs 6-16	113	104.7	8.3	81	78.8	2.2
Fri 6-17	111	104.9	6.1	90	79.1	10.9
Sat 6-18	98	105.1	-7.1	82	79.4	2.6
Sun 6-19	101	105.3	-4.3	79	79.7	-0.7

## HOT DAYS AND NIGHTS TRACKER

	Year to Date (2022)	Year to Date (2020)	Normal Year to Date
100°F days	29	36	24.0
110°F days	6	5	2.2
85°F nights	5	3	0.7

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

An Excessive Heat Warning was in effect on Thursday, June 16, marking the 6<sup>th</sup> Excessive Heat Warning day of the season. Last summer, Excessive Heat Warnings were in effect for 9 days in the month of June. The record for Excessive Heat Warning days in June is 14, set in 2017.

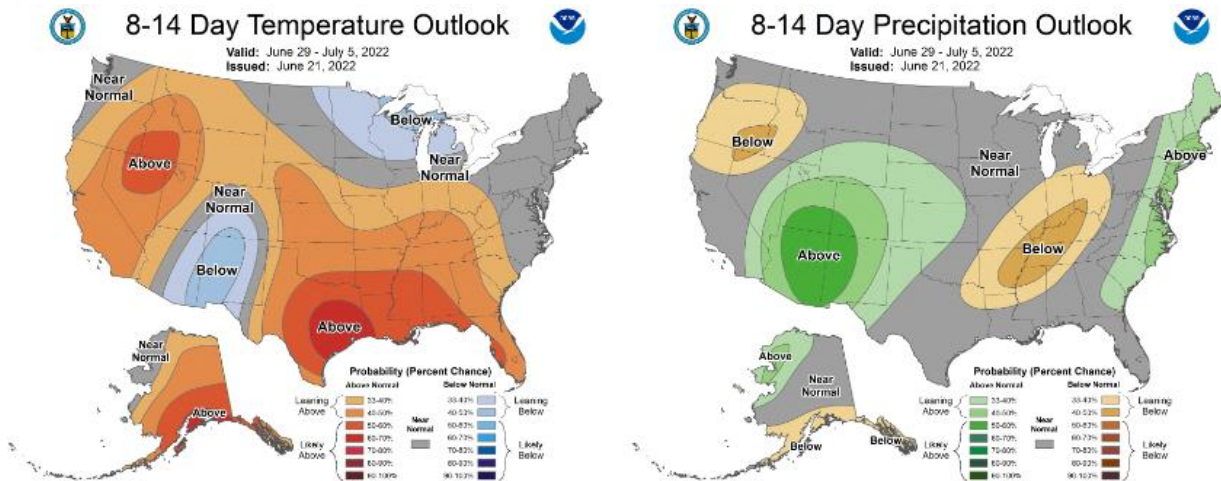
## 2. NATIONAL WEATHER SERVICE FORECAST

Moderate Heat Risk is in the forecast for every day of the upcoming week with daily high temperatures between 104°F and 110°F, largely in line with climatological normals. Increasing moisture and cloud coverage will suppress daytime high temperatures but potentially elevate nighttime temperatures.

Tue	Wed	Thu	Fri	Sat	Sun	Mon
107	107	110	107	108	105	104
86	88	88	87	86	86	85

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 (June 29–July 5) suggests that near-normal temperatures will continue, as well as conditions favorable for above-average precipitation.



### 3. HEAT-HEALTH DATA

#### HEAT-RELATED MORTALITY AND MORBIDITY

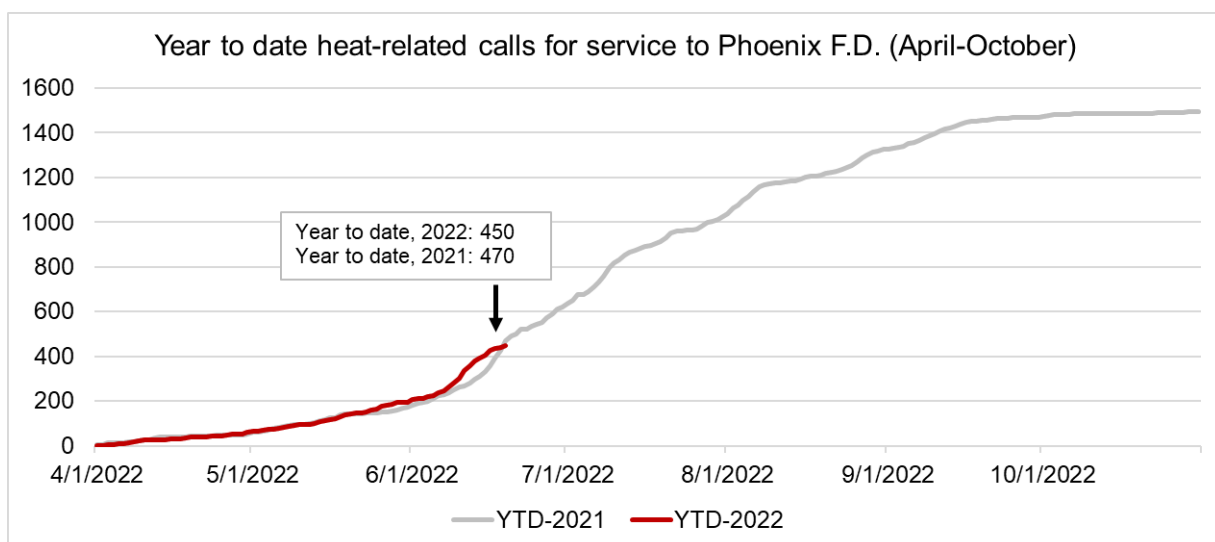
The Maricopa County Department of Public Health is now reporting 4 confirmed heat-associated death for 2022, an increase of 3 from the previous reporting period. As of their June 11 report, there are 44 additional cases under investigation, an addition of 15 cases from the prior week. MCDPH heat-health reports are available online:

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

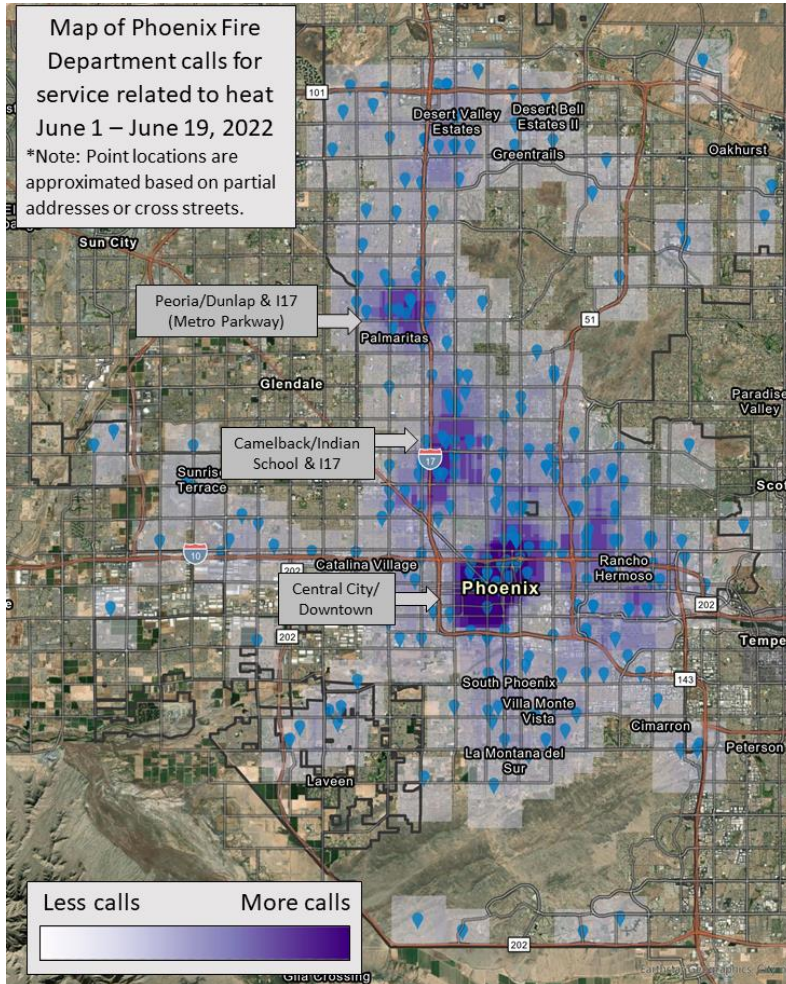
#### HEAT-RELATED CALLS FOR SERVICE TO PHOENIX FIRE DEPARTMENT

The Phoenix Fire Department responded to 91 calls for service identified by the dispatcher to be related to heat over the previous week. This represented a decrease of 45 cases (33%) below the week prior. Advanced life support systems were deployed for 30 of the 91 calls. In 2021, the same 7-day period had 191 calls for service related to heat, with considerably higher temperatures (average high temperature of 115°F in 2021 vs average high temperature over the previous week of 106°F). The highest daily number of calls over the previous week occurred on Monday June 13 (high of 108°F) and Thursday June 16 (high of 113°F), with 19 heat-related calls on each day, representing a significant decrease (50%) over the daily maximum number of calls last week. 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 5% **lower** than 2021.



Spatially, for the month of June to date (through June 19), heat-related calls for service have been concentrated in three areas: Central City/Downtown (primarily west of Central Ave), east of the I-17 between Camelback Rd and Indian School Rd, and west of the I-17 between Peoria Ave and Dunlap Ave.



#### 4. COMMUNITY SEARCH DATA

##### PHOENIX 3-1-1

There were 10 resident inquiries made through Phoenix 3-1-1 for the period June 13–June 17 that were related to summer heat, a decrease of 6 calls from the week prior. Topics of interest spanned a wider range than in previous weeks. Calls concerned trail closures, home repair programs, landlord tenant issues related to cooling, heat illness symptoms, and contact information for the Office of Heat Response and Mitigation.

## ARIZONA 2-1-1

Requests for electrical utility assistance fielded by Arizona 2-1-1 increased once again over the previous week, with 346 calls placed in Maricopa County. This represented more than a 60% increase from the week before.

## 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 year-to-date peak in searches for heat illness on June 16, but searches related to heat stroke, air conditioners, heat warnings, and swimming pools declined from the week prior. There remains no clear trend in searches for 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 (21 programs)
	Partially operational (4 programs)
	Planning and preparation (6 programs)
	No action to date (0 programs)
	No information available this week (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.
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 forthcoming.



1.6 Weekly status reports	CITY DEPTS	OHRM		Seventh report distributed June 21.
<b>FOCUS AREA 2. Public engagement, communications, and outreach</b>				
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		27 outreach shifts have been completed, with 22 focusing on street outreach and 5 at City trailheads. Nearly 1300 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 have participated. New volunteers are joining shifts the week of June 20.
2.3 Cool Callers Volunteer Program	LIVING ALONE, LIMITED COOLING	VOL, OHRM		Members of the public are beginning to enroll in the program and initial calls are being made this week.
2.4 Let's Talk Heat Booklet	ALL	A&C		Booklets are being printed and are expected to ready for distribution at community events soon. 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 <b>**NEW**</b> Heat Relief Resource Distribution	ALL	OHRM, VOL		Distribution of heat relief supplies to community organizations continues this week. More than 30 organizations have been allocated supplies with more than 28,000 individual items committed.
<b>FOCUS AREA 3. Publicly accessible cool space and drinking water</b>				
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.
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.
<b>FOCUS AREA 4. Supporting cool and safe home environments</b>				
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. Additional ARPA funding to expand home weatherization was approved by City Council. NSD and OHRM staff held a planning meeting to develop neighborhood prioritization criteria.
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		Umbrellas are being manufactured using designs sourced from a public art competition. Delivery is anticipated in June.
<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 throughout the 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

New Heat Safety Communications: The Communications Office spearheaded an effort to generate new heat safety messaging to disseminate on social media platforms and other channels for the summer season. This new content has been deployed on department-specific and the City of Phoenix main social media accounts over the past few weeks, in response to the onset of hot conditions. Staff from multiple departments, including Fire, Parks and Recreation, and Heat Response and Mitigation, participated as on-camera talent. Search for the new content using #PHXSummer and #PHXHeat.



## 7. REGIONAL AND NATIONAL HIGHLIGHT

Academic partners at Arizona State University and the University of Arizona recently submitted a \$25 million research



U.S. DEPARTMENT OF  
**ENERGY**

Office of  
Science

proposal to the U.S. Department of Energy Urban Integrated Field Laboratories Initiative. Department of Energy program goals are to support “new observational, modeling, and simulation studies to improve the accuracy of community-scale climate research and inform equitable climate solutions to minimize adverse impacts caused by climate change. Research will focus on three tightly related scientific topics—atmospheric and environmental observations; modeling of climate change and impacts across urban regions; and simulating the climate benefits of deploying climate solutions and technologies in historically underserved communities across the U.S.” The submission led by ASU and the University of Arizona focuses on regional challenges including extreme heat, air pollution, and water resources, and was titled “Southwest Urban Corridor Integrated Field Laboratory.” The City of Phoenix would be a collaborating partner on this research initiative, if funded. A decision is expected later this calendar year.

## 8. HEAT SAFETY – DID YOU KNOW?

This week brings the anniversary of the all-time high temperature observation at Phoenix Sky Harbor Airport. The record of 122°F was set on June 26, 1990. There are only three days in the recorded history of Phoenix with temperatures at or above 120°F (June 25-26, 1990, and July 28, 1995). The current forecast for June 26, 2022, calls for temperatures nearly 20°F lower than the record.

## 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).



## CITY OF PHOENIX WEEKLY HEAT RESPONSE UPDATE

MONDAY, JUNE 27, 2022

REVIEWING MONDAY, JUNE 20–SUNDAY, JUNE 26

### Summary

Astronomical summer kicked off with a week of consistent and seasonally typical temperatures. Elevated moisture is keeping daytime highs relatively constrained, but also limiting nighttime cooling. Moderate temperatures in the low-to-mid 100s are expected for the July 4 weekend. No significant heat events are expected the next two weeks, but temperatures will remain of concern for public health.

The pace of heat-related calls to the Phoenix Fire Department remained steady relative to the week prior with an average of approximately 12 per day. Year-to-date calls continue to trend slightly **below** the pace from 2021. Three confirmed heat-related deaths were added to the Maricopa County records, which show a higher year-to-date total than 2021. The first telephone calls to residents through the Cool Callers program were made on June 24, and both heat safety outreach programs continue to receive additional volunteer interest.

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

Temperatures were consistently near climatological averages over the previous week. An increase in atmospheric moisture constrained daily high temperatures. This moisture also limited nighttime cooling, until an increase in thunderstorm activity over the weekend pushed nighttime lows below seasonal averages. This was the first full week in June without a daytime high reaching 110°F or a nighttime low failing to dip below 90°F. After the previous week, the average temperature for warm season 2022 (April 1 to present) remains comparable to the same period in 2021 (0.03°F warmer) and 3.5°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 6-20	103	105.5	-2.5	75	80	-5
Tues 6-21	108	105.6	2.4	79	80.3	-1.3
Weds 6-22	107	105.8	1.2	86	80.6	5.4
Thurs 6-23	108	106	2	84	80.9	3.1
Fri 6-24	108	106.1	1.9	85	81.2	3.8
Sat 6-25	107	106.2	0.8	79	81.5	-2.5
Sun 6-26	107	106.3	0.7	80	81.7	-1.7

## HOT DAYS AND NIGHTS TRACKER

	Year to Date (2022)	Year to Date (2020)	Normal Year to Date
100°F days	36	43	30.7
110°F days	6	9	4.0
85°F nights	7	3	2.4

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 June. Last summer, Excessive Heat Warnings were in effect for 9 days in the month of June. The record for Excessive Heat Warning days in June is 14, set in 2017.

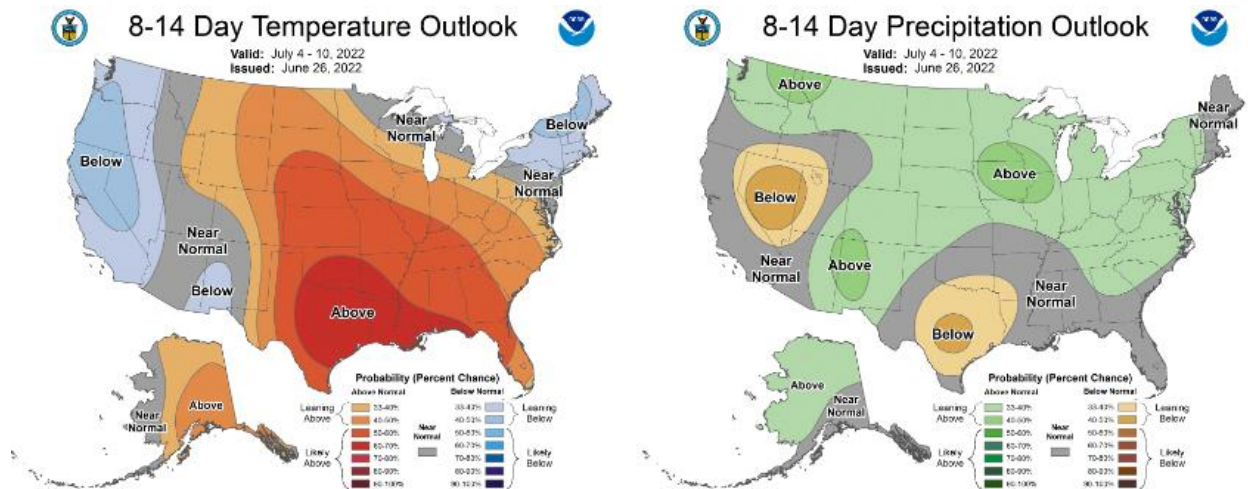
## 2. NATIONAL WEATHER SERVICE FORECAST

Moderate Heat Risk is forecast to continue for every day of the upcoming week with daily high temperatures in a narrow range between 104°F and 109°F. Temperatures will peak on Tuesday and Wednesday, before higher precipitation probabilities return to the forecast for the second half of the week.

Mon	Tue	Wed	Thu	Fri	Sat	Sun
105	108	109	104	104	106	106
88	90	87	86	86	86	87

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 week of July 4<sup>th</sup> suggests that temperatures and rainfall probabilities will continue to trend near climatological averages.



### 3. HEAT-HEALTH DATA

#### HEAT-RELATED MORTALITY AND MORBIDITY

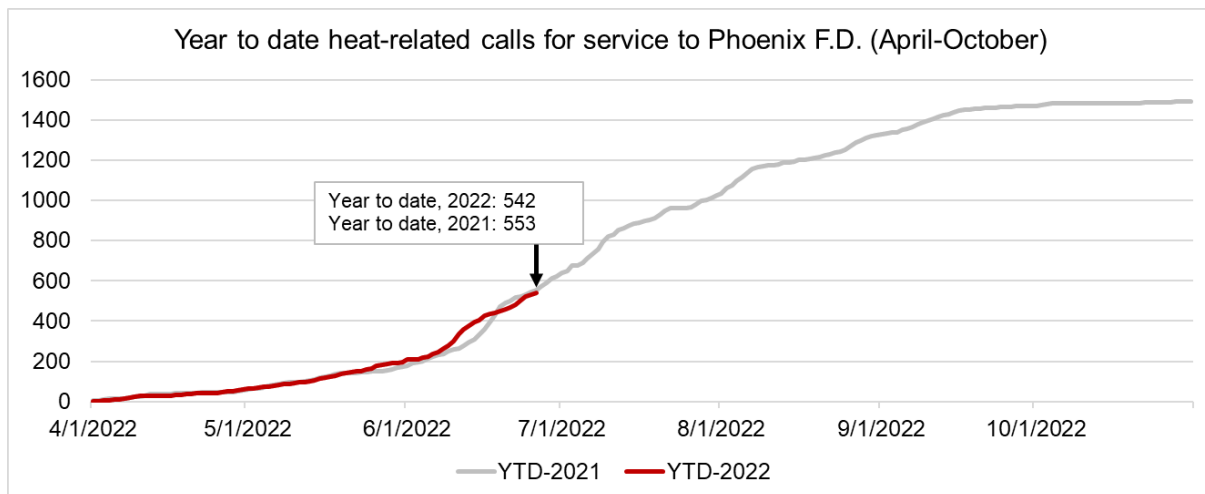
The Maricopa County Department of Public Health is now reporting 6 confirmed heat-associated death for 2022, an increase of 2 from the previous reporting period. As of their June 18 report, there are 62 additional cases under investigation, an addition of 18 cases from the prior week. MCDPH heat-health 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 92 calls for service identified by the dispatcher to be related to heat over the previous week. This was nearly the same number of calls as the week prior (91 calls). Advanced life support systems were deployed for 29 of the 92 calls. In 2021, the same 7-day period had 83 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 23 (high of 108°F), with 20 heat-related calls, which was similar to the daily maximum number of calls last week (19 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 2% **lower** than 2021.

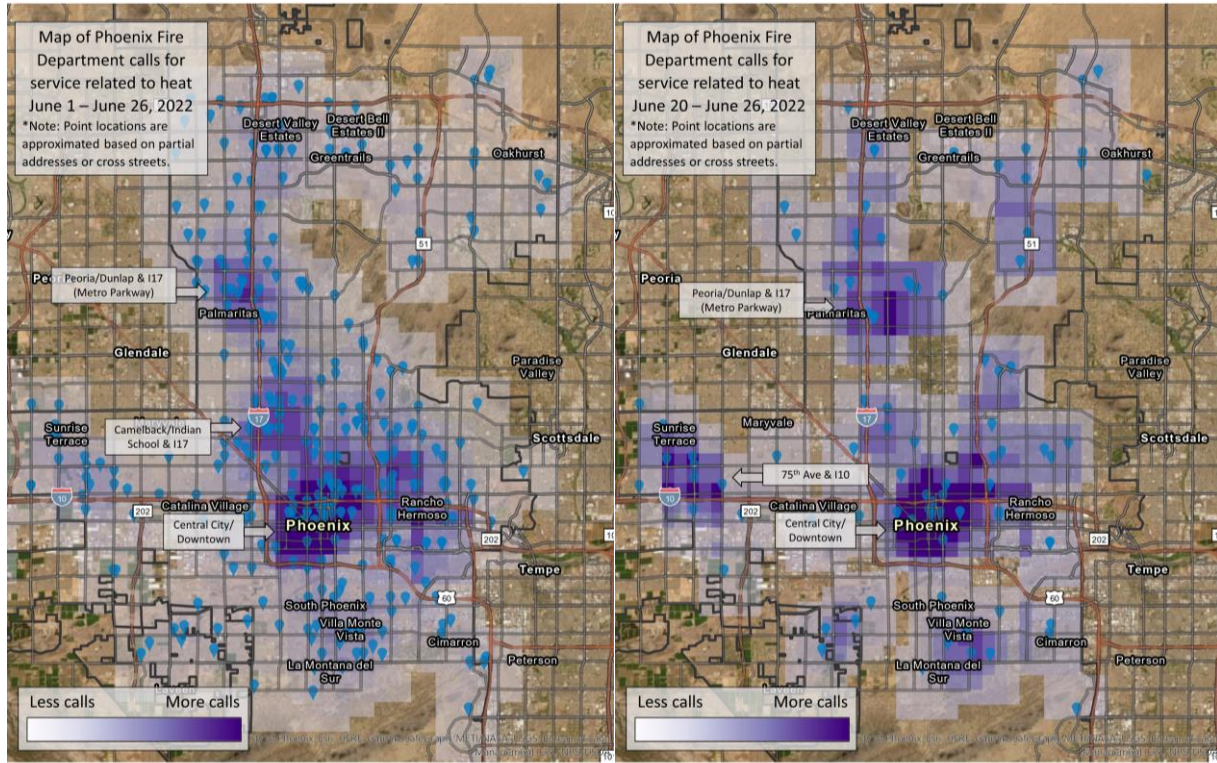


Spatially, for the month of June to date (through June 26), heat-related calls for service have been concentrated in three areas: Central City/Downtown, east of the I-17 between Camelback Rd and Indian School Rd, and west of the I-17 between Peoria Ave and Dunlap Ave.

Over the past week, the areas of concentration remained mostly the same, however one area around 75<sup>th</sup> Avenue and the I-10 had a larger volume of calls compared to previous weeks and surrounding areas.

### Month of June to date

### Last week



## 4. COMMUNITY SEARCH DATA

### PHOENIX 3-1-1

There were 15 resident inquires made through Phoenix 3-1-1 for the period June 20–June 24 that were related to summer heat, an increase of 5 calls from the week prior. Approximately half of these calls were related to aquatics. Other topics of interest included trail hours and closures, landlord tenant issues related to cooling, downed trees, cool pavement, pool permitting, and contact information for the Office of Heat Response and Mitigation.

## ARIZONA 2-1-1

There were 256 requests for electrical utility assistance fielded by Arizona 2-1-1 over the previous week in Maricopa County. This represented a 25% decrease from the previous week.

## 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 recent declines in searches for heat illness, heat stroke, air conditioning, heat warnings, and swimming pools. There remains no clear trend in searches for 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 (21 programs)
	Partially operational (4 programs)
	Planning and preparation (6 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 I. 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.
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 forthcoming.
1.6 Weekly status reports	CITY DEPTS	OHRM		Eighth report distributed June 27.



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		31 outreach shifts have been completed, with 26 focusing on street outreach and 5 at City trailheads. Nearly 1400 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.
2.4 Let's Talk Heat Booklet	ALL	A&C		Booklets are being printed and are expected to ready for distribution at community events soon. 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 new orders has been temporarily paused. More than 30 organizations have been allocated supplies with more than 28,000 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.
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		Umbrellas are being manufactured using designs sourced from a public art competition. Delivery is anticipated in June.
<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

Heat relief network maps: The City’s Volunteer Programs Office and Office of Heat Response and Mitigation have teamed up this year to produce customized Heat Relief Network maps for organizations that would benefit from and/or distribute printed copies. To date, approximately 15 separate maps have been developed that highlight cooling centers and hydration stations within a few-mile radius of a given location. These maps complement the fully interactive web map hosted by the Maricopa Association of Governments. Staff have also started providing maps to local businesses and community organizations that can help build awareness of the Heat Relief Network. Departments and partners that may be interested in receiving customized maps can contact [heatreadyphx@phoenix.gov](mailto:heatreadyphx@phoenix.gov).



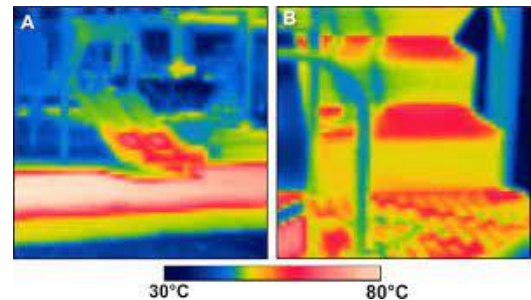
## 7. REGIONAL AND NATIONAL HIGHLIGHT

The Nature Conservancy-Arizona and Phoenix Revitalization Corporation are hosting an Urban Heat Leadership Academy for the second consecutive summer. Over the course of a five-month program, participants work collaboratively and with learning partners to become more prepared to engage with and advocate for cooler and healthier communities. Course topics include science and solutions for heat, water, and air quality challenges, knowledge of local political systems, and opportunities to advocate for community needs. Multiple City staff have contributed to course modules as learning partners.



## 8. HEAT SAFETY – DID YOU KNOW?

Playgrounds are fun, but when exposed to the sun, some playground equipment can become dangerously hot. In full sun, the surface temperature of plastic slides and rubber cushioning can be hot enough to cause second-degree burns in three seconds. Supervising adults should always use a “touch test” before allowing children to play on equipment to ensure it is sufficiently cool and safe.



## 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).



## 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.

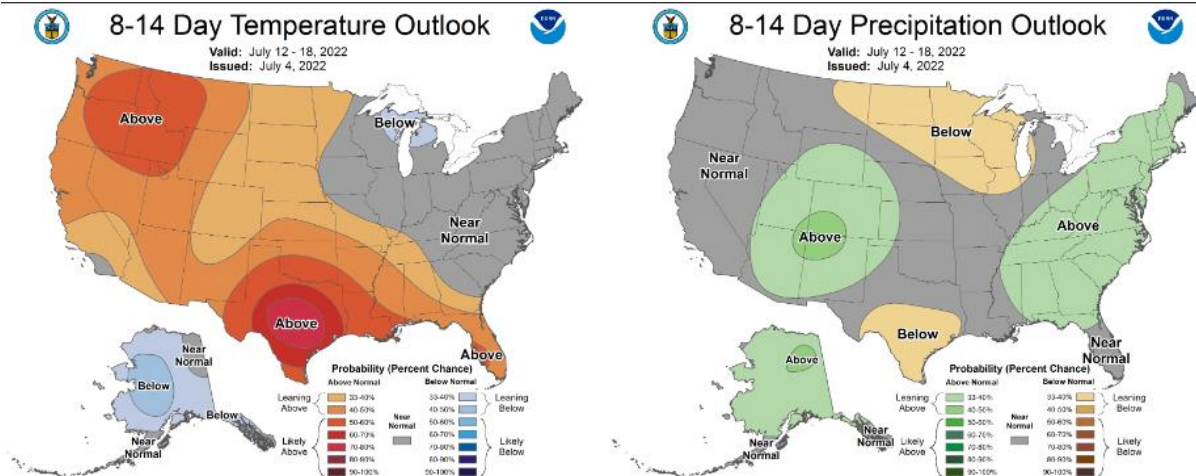
## 2. NATIONAL WEATHER SERVICE FORECAST

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

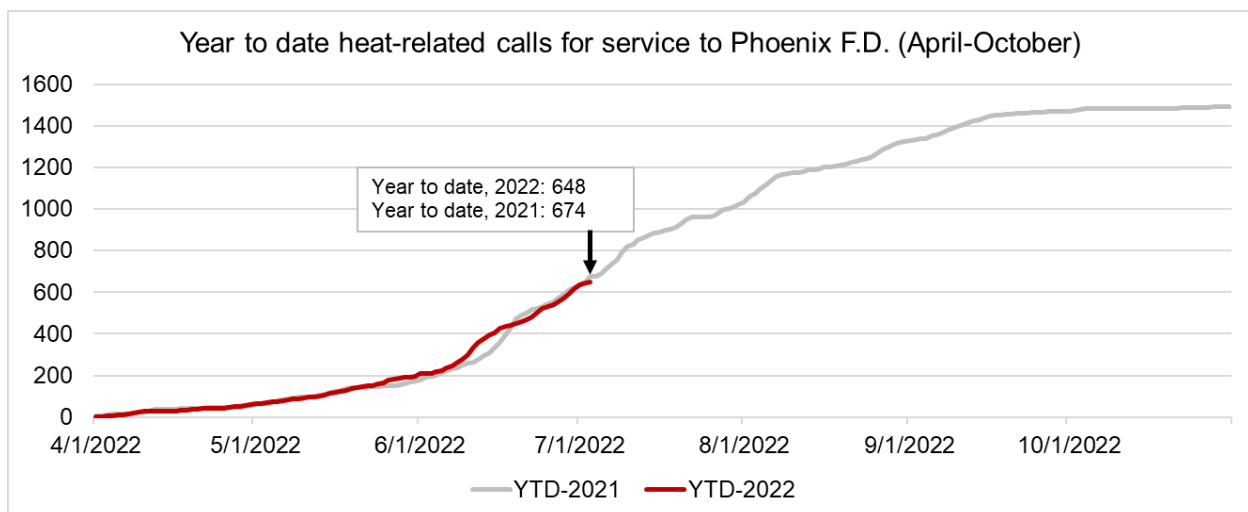
The Maricopa County Department of Public Health is still reporting 6 confirmed heat-associated death for 2022, with no change from the previous reporting period. As of their June 25 report, there are 75 additional cases under investigation, an addition of 13 cases from the prior week. MCDPH heat-health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

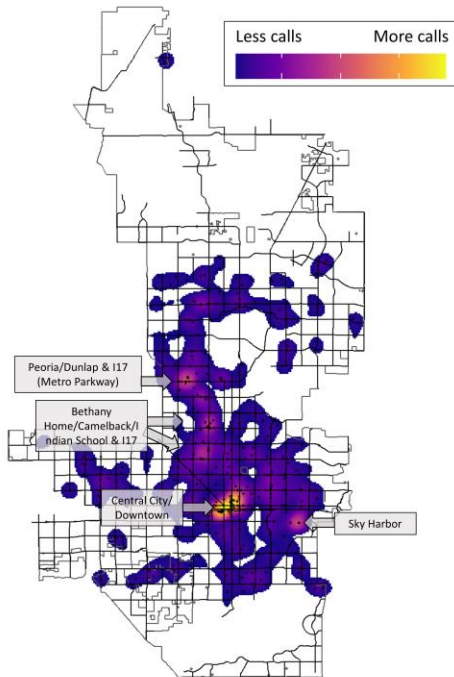


Spatially, since June 1, 2022 to date (through July 3), heat-related calls for service have been concentrated in a few areas: the Central City/Downtown area, Sky Harbor airport, and along the I-17 from Indian School Rd to Peoria Ave, with a distinct hotspot in the Metro Parkway area between Peoria Ave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

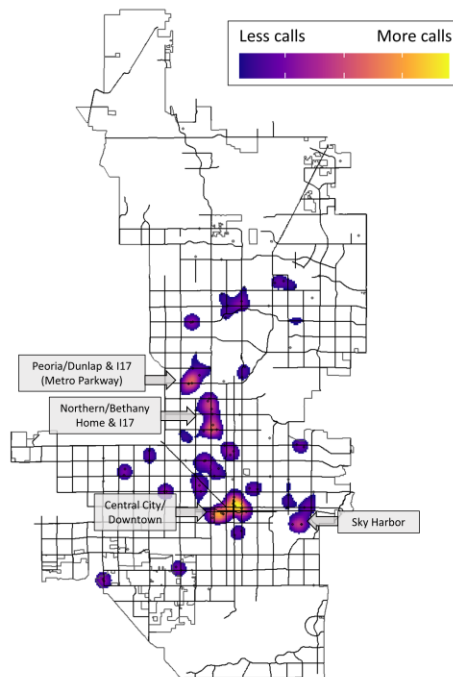
### June 1 – July 3

### 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).



## CITY OF PHOENIX WEEKLY HEAT RESPONSE UPDATE

MONDAY, JULY 11, 2022

REVIEWING MONDAY, JULY 4–SUNDAY, JULY 10

### Summary

Temperatures transitioned from below-normal to above-normal over the previous week and are expected to remain above seasonal normals through the upcoming week. Daily high temperatures are forecast to consistently reach or exceed 110°F. After the Excessive Heat Warning that was in effect for Monday, July 11 expires, no additional warning days are expected for the week, but temperatures will be close to warning thresholds.

The pace of heat-related calls to the Phoenix Fire Department continues to trend slightly **below** the pace from 2021. The Maricopa County Department of Public Health confirmed 7 additional heat-related deaths in their most recent report, bringing the total for 2022 to 13. Heat relief supplies are continuing to be distributed to community organizations with more than 35,000 items allocated to date. The City's We're Cool outreach has surpassed 1,500 individual contacts.

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

After a seasonably mild start to July, temperatures pushed well above climatological averages last week. Temperatures exceeded 110°F for the first time in nearly three weeks on Friday, July 8, and daily highs continued to exceed 110°F through the weekend. After the previous week, the average temperature for warm season 2022 (April 1 to present) continues to be slightly cooler than the same period in 2021 (by 0.1°F) and is now 3.1°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 7-4	105	106.9	-1.9	84	83.5	0.5
Tues 7-5	105	106.9	-1.9	87	83.7	3.3
Weds 7-6	107	106.9	0.1	84	83.9	0.1
Thurs 7-7	107	106.9	0.1	84	84	0
Fri 7-8	112	106.9	5.1	87	84.2	2.8
Sat 7-9	112	106.9	5.1	87	84.3	2.7
Sun 7-10	113	106.9	6.1	89	84.4	4.6

## HOT DAYS AND NIGHTS TRACKER

	Year to Date (2022)	Year to Date (2020)	Normal Year to Date
100°F days	50	57	44.0
110°F days	9	16	8.7
85°F nights	17	9	8.5

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 in effect last week. An Excessive Heat Warning was issued last week that is in effect for July 11. As of July 10, there have been 6 days with Excessive Heat Warnings this year, the fewest to date since 2019. Excessive Heat Warnings have now been issued in the month of July for seven consecutive summers and 10 of the previous 11.

## 2. NATIONAL WEATHER SERVICE FORECAST

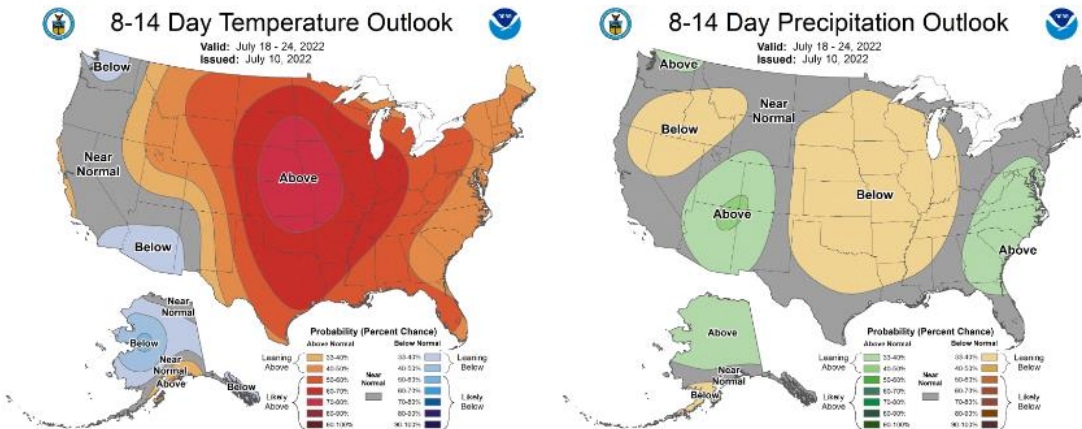
An Excessive Heat Warning is in effect for Monday, July 11, with temperatures on the upper edge of the Moderate HeatRisk Category. Temperatures will remain several degrees above climatological normals through the remainder of the week, but are forecast to remain below warning thresholds. Storm and precipitation chances modestly increase through the week.

Mon	Tue	Wed	Thu	Fri	Sat	Sun
114	112	112	111	111	111	110
91	91	91	91	90	89	89

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 favors below average temperatures and above average chances for precipitation. The average daily high for July 18–24 in Phoenix is approximately 106°F.



### 3. HEAT-HEALTH DATA

#### HEAT-RELATED MORTALITY AND MORBIDITY

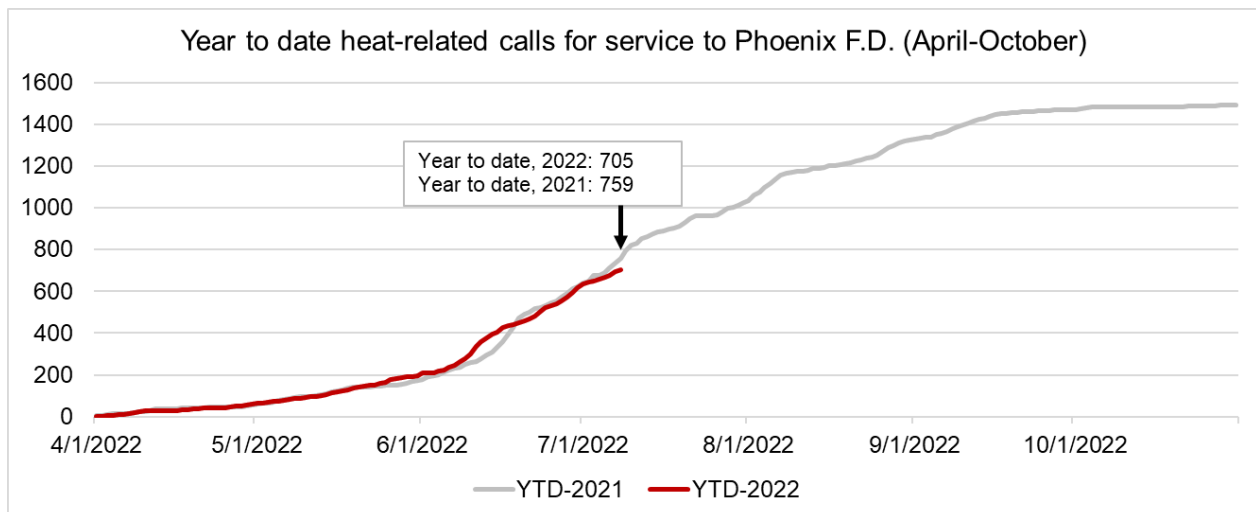
The Maricopa County Department of Public Health is reporting 13 confirmed heat-associated death for 2022, an increase of 7 cases from the previous reporting period. As of their July 2 report, there are 92 additional cases under investigation, an addition of 17 cases from the prior week. MCDPH heat-health 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 57 calls for service identified by the dispatcher to be related to heat between July 4 and July 8\*. Advanced life support systems were deployed for 14 of the 57 calls. In 2021, the same 5-day period had 85 calls for service related to heat, with slightly higher temperatures (average high temperature of about 109°F in 2021 vs about 107°F in 2022). The highest daily number of calls between July 4 and July 8 occurred on Thursday, July 7 (high of 107°F), with 15 heat-related calls, which was less than the daily maximum number of calls the previous week (24 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).

\*NOTE: The reporting period for fire department calls in this week's report only includes the five days from July 4 – July 8, based on data availability.

Year to date, heat-related calls for service to the Phoenix Fire Department are now running approximately **7% lower** than 2021.

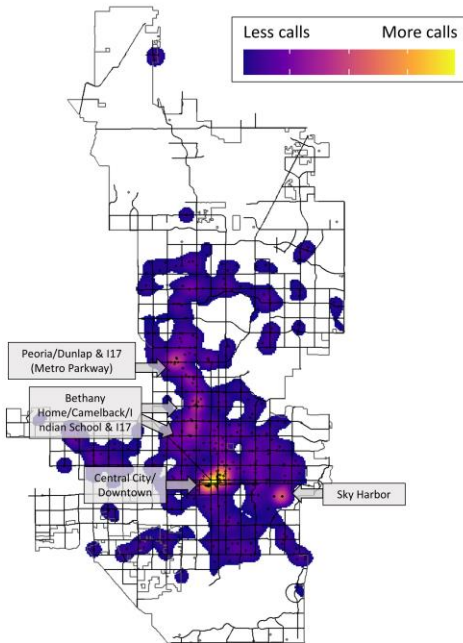


Spatially, over the period June 1–July 8, 2022, heat-related calls for service have been concentrated in a few areas: Central City/Downtown, Sky Harbor airport, and along the I-17 from Indian School Rd to Peoria Ave, with a distinct hotspot in the Metro Parkway area between Peoria Ave and Dunlap Ave. Between July 4 and July 8, two distinct hotspots occurred near Indian School Rd between 83<sup>rd</sup> Ave & 91<sup>st</sup> Ave and near 7<sup>th</sup> St & Osborn.

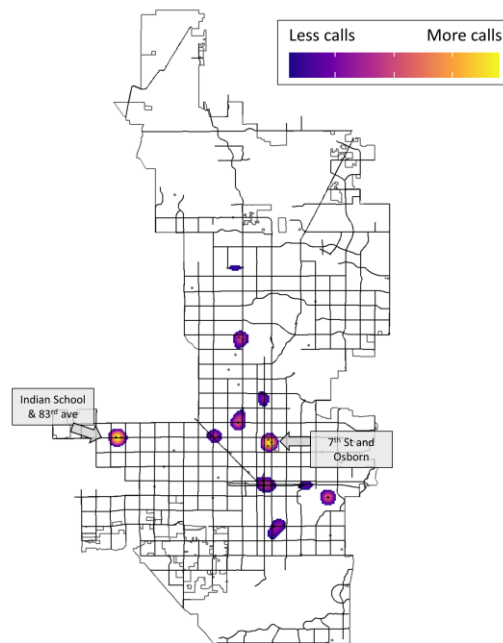
### June 1 – July 8

### Last week (July 4 – July 8)

Map of Phoenix Fire Department calls for service related to heat June 1 – July 8, 2022  
 \*Note: Point locations are approximated based on partial addresses or cross streets.



Map of Phoenix Fire Department calls for service related to heat July 3 – July 8, 2022  
 \*Note: Point locations are approximated based on partial addresses or cross streets.



## 4. COMMUNITY SEARCH DATA

### PHOENIX 3-1-1

There were 6 inquires made through Phoenix 3-1-1 for July 4–July 8 that were related to summer heat, a decrease of 5 calls from the week prior. Two were related to City aquatics, two were related to private pools, and two were related to residential cooling. Staff are following up on the residential cooling calls for possible referral to the landlord tenant program.

### ARIZONA 2-1-1

There were 288 requests for electrical utility assistance fielded by Arizona 2-1-1 over the previous week in Maricopa County, which was a slight decrease from the week prior.

## 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 an uptick in searches for heat warnings, coincident with the timing of the Excessive Heat Warning from the National Weather Service. Searches for heat stroke and swimming pools trended down, and there is no clear recent trend in searches for heat illness, air conditioning, 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 (24 programs)
	Partially operational (2 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
<b>FOCUS AREA 1. Situational awareness at City Hall and real-time response</b>				
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		Tenth report distributed July 10.
<b>FOCUS AREA 2. Public engagement, communications, and outreach</b>				
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		38 outreach shifts have been completed, with 32 focusing on street outreach and 6 at City trailheads. More than 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. Community

				volunteer onboarding and engagement continues to increase.
2.3 Cool Callers Volunteer Program	LIVING ALONE, LIMITED COOLING	VOL, OHRM		Multiple referrals to other City and regional services have been made through the first two weeks of phone calls. Enrollment of additional participants and volunteers continues.
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 has resumed. 40 organizations have been allocated supplies with more than 35,000 individual items committed. Over the past week, 10 fridge/freezers and 30 shade canopies were included in allocations.
<b>FOCUS AREA 3. Publicly accessible cool space and drinking water</b>				
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. Intermittent challenges with the cooling system at the new tent have been addressed and resolved in a timely manner by staff and contractors.
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; Public Works is leading the procurement process in collaboration with other departments including Water and OHRM.
<b>FOCUS AREA 4. Supporting cool and safe home environments</b>				
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 has been disseminated through City platforms and channels. OHRM and 311 staff reviewed existing rules at the start of summer to ensure accurate communication to residents.

FOCUS AREA 5. Supporting cool and safe mobility and recreation				
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.
FOCUS AREA 6. Supporting cool and safe workplaces and schools				
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 Office of Arts and Culture and Arizona State University's Urban Climate Research Center partnered to produce the sunBLOCK public art projects. The projects, that were partially funded by the National Endowment for the Arts, were created as part of a campaign to promote awareness about heat and sun safety. sunBLOCK included the production of an educational booklet, *Let's Talk Heat*. The booklet provides information about urban and extreme heat, health risks, and strategies to cool the city and keep people safe. sunBLOCK also included the *Walk in the Sun Umbrella Artwork Design Contest*. Through the contest fourteen Arizona artists were commissioned to design the fabric canopies for personal shade umbrellas. Images of two of the winning designs are shown to the right of the text. Staff are working with the Council Offices and Office of Heat Response and Mitigation to distribute umbrellas and booklets to the public.





## 7. REGIONAL AND NATIONAL HIGHLIGHT

The City of Los Angeles appointed its first Chief Heat Officer in early June, joining Phoenix and Miami as cities with dedicated personnel addressing challenges associated with hot weather. Marta Segura was appointed to the post after serving as Los Angeles' Director of Climate Emergency Mobilization. Experts from the University of Arizona and Arizona State University, as well as City of Phoenix staff, provided guidance to Los Angeles to craft the new position.

## 8. HEAT SAFETY – DID YOU KNOW?

A wide range of medications, including some commonly used antihistamines and beta blockers, have known side effects that can impair the body's ability to cope with high temperatures. People starting new medications in the summer are advised to take extra precautions when exposed to the heat before understanding how their body responds. Certain medicines hinder the body's thermal sensation and regulation mechanisms, inhibit sweating, and/or accelerating sweating. A 2020 Washington Post story provides perspectives from a pediatrician with expertise in heat and health: [https://www.washingtonpost.com/health/risks-for-some-medications-rise-as-temperatures-climb/2020/06/25/0ba887e4-ae90-11ea-856d-5054296735e5\\_story.html](https://www.washingtonpost.com/health/risks-for-some-medications-rise-as-temperatures-climb/2020/06/25/0ba887e4-ae90-11ea-856d-5054296735e5_story.html). Questions about heat sensitivity and medications should be directed to medical professionals.

## 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).



## CITY OF PHOENIX WEEKLY HEAT RESPONSE UPDATE

MONDAY, JULY 18, 2022

REVIEWING MONDAY, JULY 11–SUNDAY, JULY 17

### Summary

Temperatures continued to persist well above seasonal normals, with Excessive Heat Warnings in effect for two of the previous seven days. High temperatures exceeding 110°F are likely to continue through Friday and there is a possibility of new Excessive Heat Warnings being issued.

Last week saw significant community impacts with a year-to-date high for daily (52) and weekly (243) heat-related calls to the Phoenix Fire Department. The pace of heat-related calls to the Phoenix Fire Department is now ahead of the 2021 year-to-date total by nearly 10%. The Maricopa County Department of Public Health is now reporting 17 confirmed heat-related deaths in 2022. Volunteer engagement with the We're Cool program continues to increase, with very generous participation from APS staff members in recent weeks. The We're Cool program has now reached more than 1,600 community members.

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

Temperatures above seasonal averages persisted through the previous week, with daily high temperatures consistently 4-8°F above normal. Nighttime lows were comparably warm relative to seasonal expectations, with the exception of the low temperature of 81°F on Sunday attributable to thunderstorm activity. This recent hot stretch pushed the year to date summer (April 1 to present) average high temperature back above the same period in 2021 (by 0.4°F), after several consecutive weeks running below last year's average. The summer to date daily high temperature is now 3.3°F higher than the climatological normal.

Red=highest high Blue=lowest high low breaks ties	Daily High °F	Normal High °F	vs. Normal °F	Daily Low °F	Normal Low °F	vs. Normal °F
Mon 7-11	115	106.8	8.2	91	84.5	6.5
Tues 7-12	112	106.8	5.2	93	84.6	8.4
Weds 7-13	113	106.8	6.2	93	84.7	8.3
Thurs 7-14	111	106.7	4.3	88	84.8	3.2
Fri 7-15	112	106.7	5.3	88	84.9	3.1
Sat 7-16	114	106.6	7.4	92	84.9	7.1
Sun 7-17	112	106.6	5.4	81	84.9	-3.9

## HOT DAYS AND NIGHTS TRACKER

	Year to Date (2022)	Year to Date (2020)	Normal Year to Date
100°F days	57	64	50.5
110°F days	16	21	11.1
85°F nights	23	16	12.2

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

Excessive Heat Warnings were in effect on Monday, July 11 and Saturday, July 16, bringing the year to date total to 8 Excessive Heat Warning days. An Excessive Heat Warning that was issued for Sunday, June 17 was cancelled. The total of 8 Excessive Heat Warning days to date remains the fewest since 2019.

## 2. NATIONAL WEATHER SERVICE FORECAST

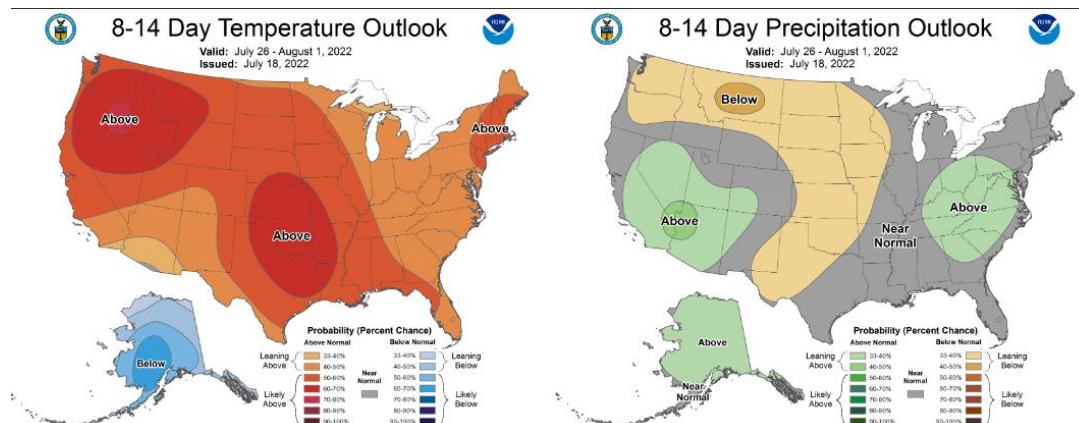
The upcoming forecast calls for above normal temperatures to continue through the end of the week. Temperatures will fluctuate between the Moderate and High HeatRisk categories, and if the forecast continues to trend toward higher temperatures, Excessive Heat Warnings may be issued. There are encouraging signs in the forecast of a shift to a wetter and more active monsoon pattern by early the following week.

Tue	Wed	Thu	Fri	Sat	Sun	Mon
<b>112</b>	<b>111</b>	<b>111</b>	<b>112</b>	<b>108</b>	<b>105</b>	<b>104</b>
<b>91</b>	<b>90</b>	<b>91</b>	<b>91</b>	<b>87</b>	<b>86</b>	

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

The early forecast for the following week slightly favors above average temperatures, along with increased precipitation chances. The average daily high for July 25–31 in Phoenix is approximately 106°F.



### 3. HEAT-HEALTH DATA

#### HEAT-RELATED MORTALITY AND MORBIDITY

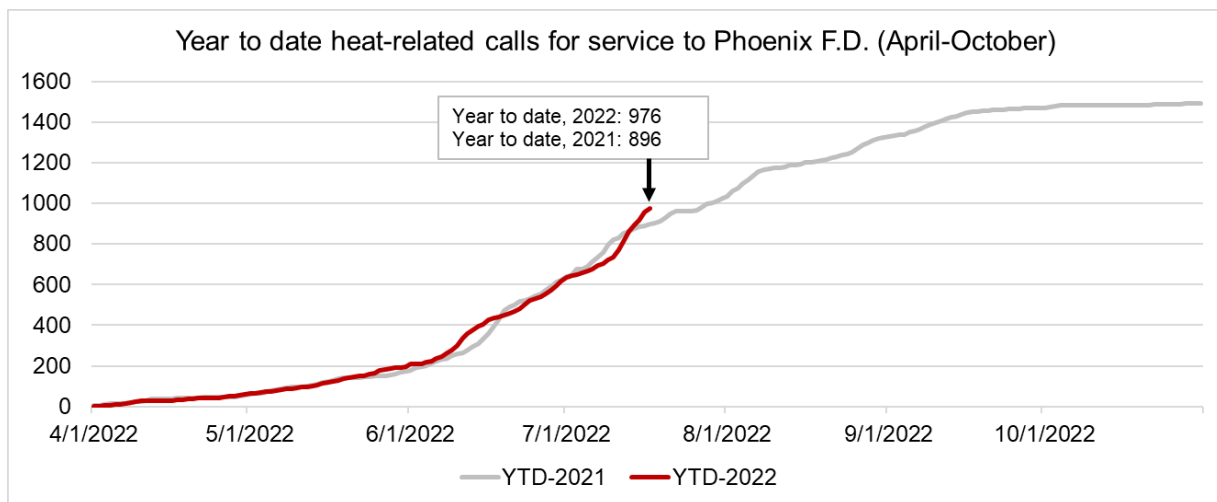
The Maricopa County Department of Public Health is reporting 17 confirmed heat-associated deaths for 2022, an increase of 4 cases from the previous reporting period. As of their July 9 report, there are 126 additional cases under investigation, an addition of 34 cases from the prior week. MCDPH heat-health 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 243 calls for service identified by the dispatcher to be related to heat over the previous week. This was a significantly higher number of calls than any previous week this year (the next highest occurred the week of June 6 with 136 calls), and significantly higher number of calls than the previous week (85 calls). Advanced life support systems were deployed for 81 of the 243 calls.

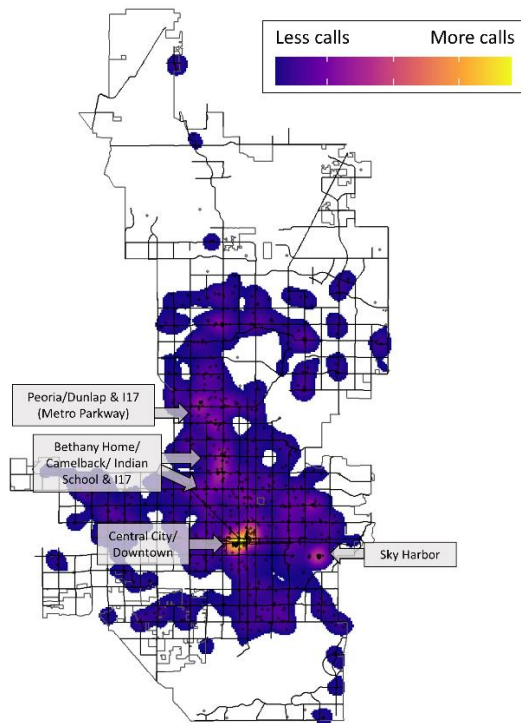
In 2021, the same 7-day period had 77 calls for service related to heat, with much lower high temperatures (average high temperature of about 104°F in 2021, compared to 113°F last week). The highest daily number of calls over the previous week occurred on Wednesday July 13 (high of 113°F), with 52 heat-related calls, which was significantly more than the daily maximum number of calls last week (17 calls), and the highest number of daily calls this year to date. 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 **9% higher** than 2021.



Spatially, since June 1, 2022 to date (through July 17), heat-related calls for service have continued to concentrate in a few areas: the Central City/Downtown area, Sky Harbor airport, and along the I-17 from Indian School Rd to Peoria Ave. Over the past week, the areas of concentration remained mostly the same. In both the past week and since June 1<sup>st</sup>, about half of all calls have occurred along the I-17, between Durango St and Bell Rd, and between 35<sup>th</sup> Ave and Central Ave.

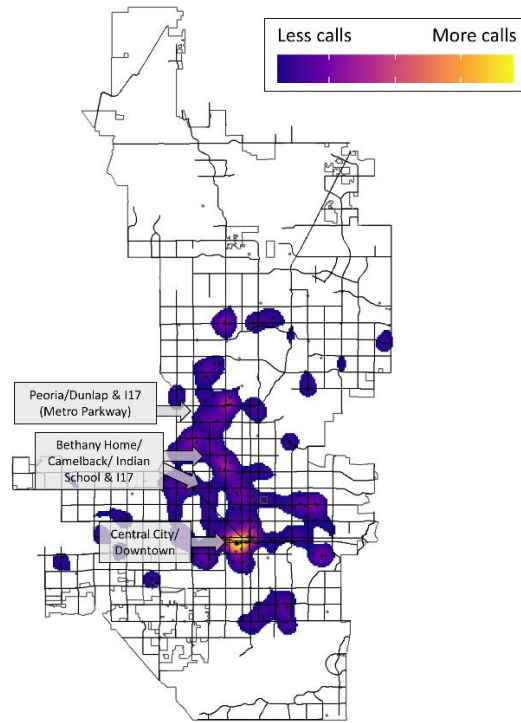
### June 1 – July 3

Map of Phoenix Fire Department calls for service related to heat June 1 – July 17, 2022  
 \*Note: Point locations are approximated based on partial addresses or cross streets.



### Last week (July 11 – July 17)

Map of Phoenix Fire Department calls for service related to heat July 11 – July 17, 2022  
 \*Note: Point locations are approximated based on partial addresses or cross streets.



## 4. COMMUNITY SEARCH DATA

### PHOENIX 3-1-1

There were 8 inquires made through Phoenix 3-1-1 for July 11–July 15 that were related to summer heat, an increase calls from the week prior. Four calls were related to private swimming pools, two were related to the cool pavement program, one was related to trail closures, and one was related to tree maintenance.

## ARIZONA 2-1-1

There were 302 requests for electrical utility assistance fielded by Arizona 2-1-1 over the previous week in Maricopa County, which was a slight increase from the week prior.

## 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 an uptick in searches for heat warnings, heat illness, heat stroke, and pools. Searches for air conditioning trended down slightly, and there was no apparent trend in searches for 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 (25 programs)
	Partially operational (1 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
<b>FOCUS AREA 1. Situational awareness at City Hall and real-time response</b>				
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. Customized cooling center maps are being prepared for fire stations in highly impacted areas.
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		Eleventh report distributed July 17.
<b>FOCUS AREA 2. Public engagement, communications, and outreach</b>				
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		43 outreach shifts have been completed, with 37 focusing on street outreach and 6 at City trailheads. More than 1600 contacts have been made through this program. Supplies distributed include water, hats, sunscreen, cooling center maps, heat safety cards, cooling towels, misters, and umbrellas. Community volunteer onboarding and engagement continues to increase.
2.3 Cool Callers Volunteer Program	LIVING ALONE, LIMITED COOLING	VOL, OHRM		Multiple referrals to other City and regional services have been made through the first three weeks of phone calls. Enrollment of additional participants and volunteers continues.
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 has resumed. 40 organizations have been allocated supplies with more than 35,000 individual items committed.
<b>FOCUS AREA 3. Publicly accessible cool space and drinking water</b>				
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. Intermittent challenges with the cooling system at the new tent are being addressed in a timely manner by staff and contractors.
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; Public Works is leading the procurement process in collaboration with other departments including Water and OHRM.
<b>FOCUS AREA 4. Supporting cool and safe home environments</b>				
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 has been disseminated through City platforms and channels. OHRM and 311 staff reviewed existing rules at the start of summer 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 to Council offices and are beginning to be distributed 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

In October 2021, the Phoenix Parks and Recreation Board voted to restrict access to certain hiking trails on the most dangerously hot summer days. Access to the summit trails at Piestewa Peak and Camelback Mountain is prohibited from 11:00 a.m. through 5:00 p.m. on days when the National Weather Service has an Excessive Heat Warning in Effect. Closures have been in effect on eight days thus far in summer 2022.

## 7. REGIONAL AND NATIONAL HIGHLIGHT

Recent thunderstorms caused significant power outages in several municipalities in Maricopa County. Preserving cold food is one of the challenges that households face during summertime power outages. Both SRP and APS offer reimbursement programs for ice purchased during power outages of 10 or more hours. The SRP program provides up to \$10 per customer, and the APS program reimburses for up to 40 pounds of ice. More information is available on the utility companies' websites by searching for "ice reimbursement."



## 8. HEAT SAFETY – DID YOU KNOW?

Heat stroke is a life-threatening medical emergency that requires immediate professional assistance. One of the key differentiating symptoms between heat exhaustion and heat stroke is that under heat stroke, the body has often stopped sweating and the skin has become red, hot, and dry. The diagram to the right provides a comparison between the symptoms of heat exhaustion and heat stroke. Heat exhaustion can often be treated without professional attention, but symptom of heat stroke always necessitates a call to 9-1-1. While waiting for help to arrive, cooling the victim by using damp cloths, ice packs, cold water immersion, misting, and providing shade are among the best ways to help.



## 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).

## CITY OF PHOENIX WEEKLY HEAT RESPONSE UPDATE

MONDAY, JULY 25, 2022

REVIEWING MONDAY, JULY 18–SUNDAY, JULY 24

### Summary

Another week with above average temperatures brought considerable impacts to the Phoenix area. Heat-related calls to the Phoenix Fire Department continued to outpace last year’s call volume and the Maricopa County Department of Public Health added 12 newly confirmed heat-associated deaths to the 2022 total. City heat response operations continue to reach more community members; the We’re Cool program, as one example, has now exceeded 1,800 engagements.

A major shift in the regional weather pattern has brought lower temperatures to the Phoenix area, and below-average temperatures are expected to continue for at least the remainder of the week, if not longer. However, temperatures will still be high enough to cause adverse public health impacts, particularly among the most physiologically susceptible.

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

The previous week included one of the hottest stretches of the year to date, with four consecutive days reaching 110°F or higher and four consecutive nights at 90°F or higher. The overnight low temperature of 95°F on July 22 was the second highest low temperature in Phoenix history; the low of 94°F on July 19 ranked as the eighth highest. Temperatures dipped below average by the end of the week with a significant shift in the regional weather pattern. This summer (April 1 to present) is now approximately 1.0°F hotter than the same period in 2021 and 3.3°F higher than the climatological normal.

Red=highest high Blue=lowest high low breaks ties	Daily High °F	Normal High °F	vs. Normal °F	Daily Low °F	Normal Low °F	vs. Normal °F
Mon 7-18	108	106.5	1.5	82	85.0	-3.0
Tues 7-19	111	106.5	4.5	94	85.0	9.0
Weds 7-20	111	106.4	4.6	91	85.0	6.0
Thurs 7-21	110	106.3	3.7	90	85.0	5.0
Fri 7-22	114	106.3	7.7	95	85.0	10.0
Sat 7-23	108	106.2	1.8	84	85.0	-1.0
Sun 7-24	100	106.2	-6.2	80	85.0	-5.0

## HOT DAYS AND NIGHTS TRACKER

	Year to Date (2022)	Year to Date (2020)	Normal Year to Date
100°F days	64	70	56.9
110°F days	20	22	12.5
85°F nights	27	22	16.1

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

Excessive Heat Warnings were in effect on July 21 and 22, bringing the year-to-date total to 10 days. An Excessive Heat Warning that was issued for Sunday, June 17 was cancelled. The last year that had fewer than 10 Excessive Heat Warning days in a summer was 2014.

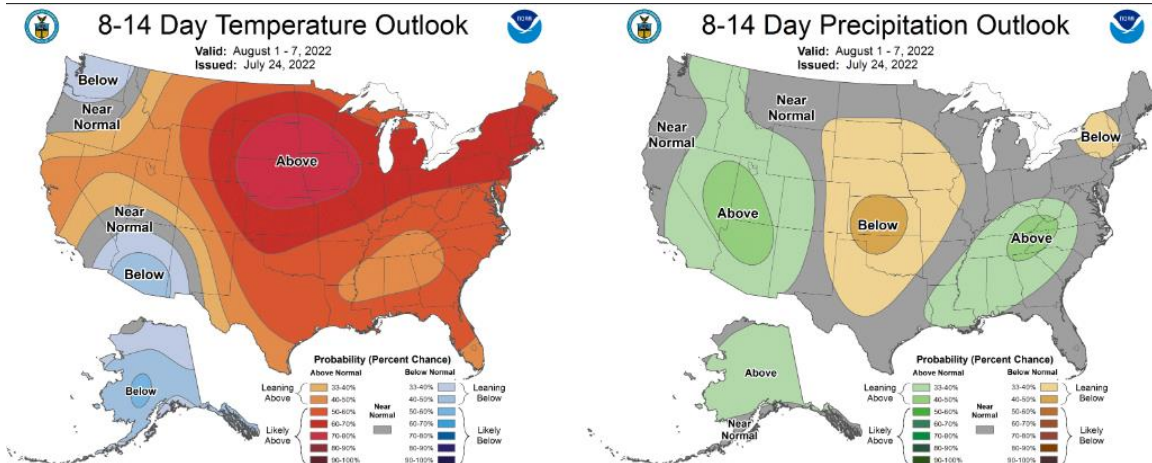
## 2. NATIONAL WEATHER SERVICE FORECAST

Temperatures are forecast to be below the climatological average of 106°F for the entirety of the upcoming week, and may not reach 100°F until Thursday. Every day in the forecast period is considered Low HeatRisk, per the National Weather Service. The atmosphere will be quite humid, with dew point temperatures near 70°F during much of the early part of the week. Much of the Phoenix area will see some rain and thunderstorm activity.

Mon	Tue	Wed	Thu	Fri	Sat	Sun
99	97	99	100	102	104	104
84	84	83	84	84	85	87

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 shows a continuation of the current pattern with temperatures below average and elevated chances of precipitation.



### 3. HEAT-HEALTH DATA

#### HEAT-RELATED MORTALITY AND MORBIDITY

The Maricopa County Department of Public Health is reporting 29 confirmed heat-associated deaths for 2022, an increase of 12 cases from the previous reporting period. As of their July 16 report, there are 193 additional cases under investigation, an addition of 67 cases from the prior week. MCDPH heat-health reports are available online:

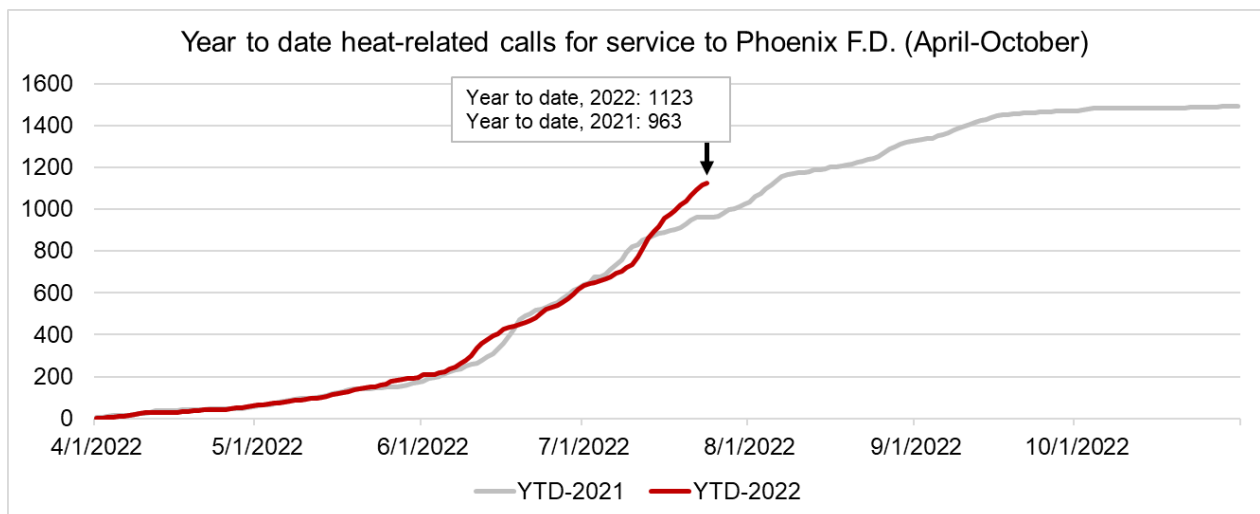
<https://www.maricopa.gov/1858/Heat-Surveillance>.

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

The Phoenix Fire Department responded to 147 calls for service identified by the dispatcher to be related to heat over the previous week. This was a lower number of calls than last week, but still represents the second highest number of calls in one week so far this year (the highest number of calls in one week occurred last week, with 243). Advanced life support systems were deployed for 41 of the 147 calls. In 2021, the same 7-day period had 67 calls for service related to heat, with much lower high temperatures (average high temperature of about 100°F in 2021, compared to 109°F last week).

The highest daily number of calls over the previous week occurred on Thursday July 21 (high of 110°F), with 27 heat-related calls, which was significantly less than the daily maximum number of calls last week (52 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).

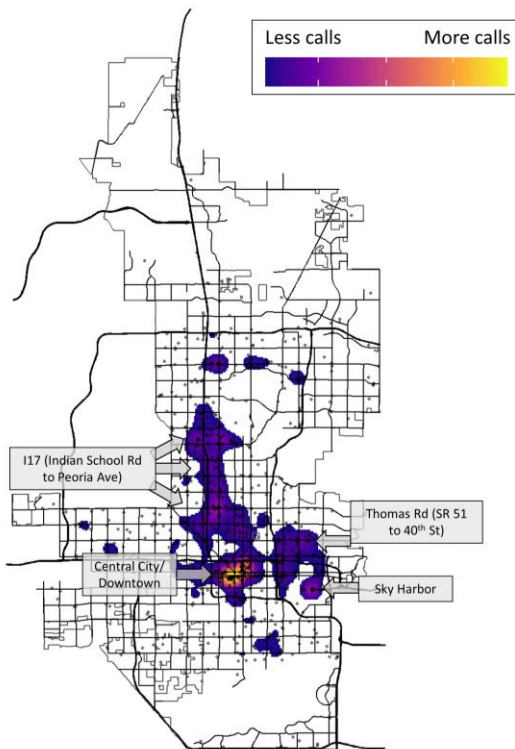
Year to date, heat-related calls for service to the Phoenix Fire Department are now running approximately 17% **higher** than 2021.



Spatially, since June 1, 2022 to date (through July 24), heat-related calls for service have continued to concentrate in a few areas: the Central City/Downtown area, Sky Harbor airport, and along the I-17 from Indian School Rd to Peoria Ave. Additionally, some more minor areas of concentration have emerged on Thomas Rd from State Route 51 to 40<sup>th</sup> St, around 24<sup>th</sup> St from Thomas Rd to Jefferson St, and near Central Ave between Camelback Rd and Thomas Rd. Over the past week, the areas of concentration are largely the same.

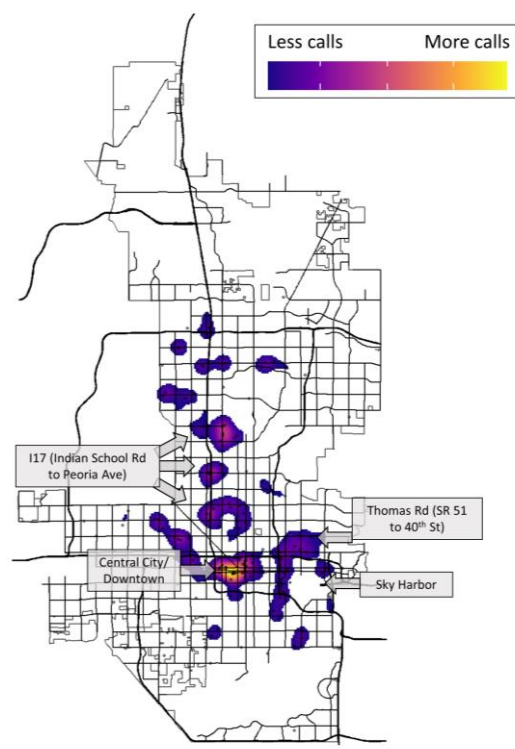
### June 1 – July 3

Map of Phoenix Fire Department calls for service related to heat June 1 – July 24, 2022  
 \*Note: Point locations are approximated based on partial addresses or cross streets.



### Last week (July 11 – July 17)

Map of Phoenix Fire Department calls for service related to heat July 18 – July 24, 2022  
 \*Note: Point locations are approximated based on partial addresses or cross streets.



## 4. COMMUNITY SEARCH DATA

### PHOENIX 3-1-1

There were 2 inquiries made through Phoenix 3-1-1 for July 18–July 22 that were related to summer heat, a decrease of 6 calls from the week prior and the lowest call volume of the summer. These two calls were related to pool fencing and air conditioning repair.

## ARIZONA 2-1-1

There were 280 requests for electrical utility assistance fielded by Arizona 2-1-1 over the previous week in Maricopa County, which was a slight decrease from the week prior.

## 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 an spike in searches for heat warnings, a slight increase in searches for air conditioning, heat exhaustion, and cooling centers, and no trend in searches related to swimming pools or heat stroke.

## 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 (25 programs)
	Partially operational (1 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
<b>FOCUS AREA 1. Situational awareness at City Hall and real-time response</b>				
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. Customized cooling center maps are being prepared for fire stations in highly impacted areas.
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		Twelfth report distributed July 25.
<b>FOCUS AREA 2. Public engagement, communications, and outreach</b>				
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		48 outreach shifts have been completed, with 41 focusing on street outreach and 7 at City trailheads. More than 1800 contacts have been made through this program. Supplies distributed include water, hats, sunscreen, cooling center maps, heat safety cards, cooling towels, misters, and umbrellas. Community volunteer onboarding and engagement continues to increase.
2.3 Cool Callers Volunteer Program	LIVING ALONE, LIMITED COOLING	VOL, OHRM		Multiple referrals to other City and regional services have been made through the first four weeks of phone calls. Enrollment of additional participants and volunteers continues with a round of volunteer training scheduled for the upcoming week.
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		Order fulfillment continues, with evaporative coolers and ice makers arriving in the coming weeks. 40 organizations have been allocated supplies with more than 35,000 individual items committed.
<b>FOCUS AREA 3. Publicly accessible cool space and drinking water</b>				
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. Intermittent challenges with the cooling system at the new tent are being addressed in a timely manner by staff and contractors.
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 are scheduling a meeting with the manufacturer to confirm operational details in the next week.
<b>FOCUS AREA 4. Supporting cool and safe home environments</b>				
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 has been disseminated through City platforms and channels. OHRM and 311 staff reviewed existing rules at the start of summer 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 to Council offices and are beginning to be distributed 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

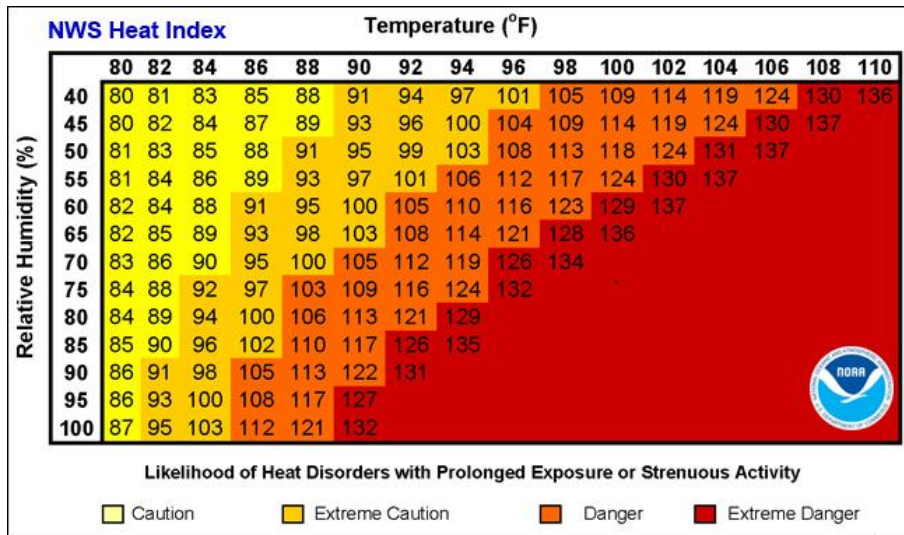
A new cooling tent was installed earlier this summer at 9<sup>th</sup> Avenue and Jackson Street to help people experiencing homelessness find a safe space for relief from the heat beyond options available on the Human Services Campus. Cooling tent operations are managed by city staff in collaboration with staff from the Human Services Campus. Over the past week, upgraded cooling equipment was installed by the rental equipment provider that will help keep the tent cooler on especially hot summer days.

## 7. REGIONAL AND NATIONAL HIGHLIGHT

President Biden announced new initiatives on July 20 to help communities across the country better prepare for and respond to threats associated with extreme heat. Executive action added funding to the Building Resilient Infrastructure and Communities (BRIC) program run by the Federal Emergency Management Agency (FEMA). The President also added flexibility to the administration of Low-Income Home Energy Assistance Program (LIHEAP) funding that creates more opportunities for local governments to provide cooling resources to the community.

## 8. HEAT SAFETY – DID YOU KNOW?

The upcoming week is expected to have considerably lower air temperatures with an increase in humidity. Humidity is typically low enough in our region such that it does not considerably modify the risk of heat-related illness, but this week, the increase in humidity will push heat indices up to 5-6°F above air temperature. Afternoon relative humidity is current forecast to be between 30-40% for the upcoming week. The National Weather Service provides a chart (below) that can be used to determine heat index based on air temperature and relative humidity; users are reminded that relative humidity is inversely related to air temperature, so the relative humidity reading in the morning is not a good estimate for the afternoon.



## 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).

## CITY OF PHOENIX WEEKLY HEAT RESPONSE UPDATE

MONDAY, AUGUST 1, 2022

REVIEWING MONDAY, JULY 25–SUNDAY, JULY 31

### Summary

A week of below-average temperatures has provided some needed respite from the heat, as summer 2022 continues to trend about 1°F hotter than last year and about 3°F hotter than the climatological normal. The impacts of the mid-to-late July stretch of hot weather are becoming clearer in health and dispatch data, which showed near- to above-record case volume. Heat-related calls to the Phoenix Fire Department are now outpacing last year's call volume by more than 15% and the Maricopa County Department of Public Health added 9 more confirmed heat-associated deaths to the 2022 total, with five dozen more cases under investigation.

Temperatures are forecast to be slightly higher this week than last, but conditions will remain favorable for storm and precipitation activity that will limit warming. No excessive heat warning days are likely to occur in the next two weeks, based on current forecast guidance.

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

A major shift in the regional weather pattern quickly transitioned the Phoenix area to a week of below-average temperatures, offering some respite from what had been one of the hottest stretches of the year. Over the past week daily high temperatures only exceeded 100°F twice, and overnight lows in the 70s were recorded four times. This summer (April 1 to present) is now approximately 0.9°F hotter than the same period in 2021 and 2.7°F higher than the climatological normal.

Red=highest high Blue=lowest high low breaks ties	Daily High °F	Normal High °F	vs. Normal °F	Daily Low °F	Normal Low °F	vs. Normal °F
Mon 7-25	100	106.2	-6.2	80	85	-5
Tues 7-26	102	106.1	-4.1	83	84.9	-1.9
Weds 7-27	99	106	-7	77	84.9	-7.9
Thurs 7-28	98	106	-8	83	84.8	-1.8
Fri 7-29	92	105.9	-13.9	79	84.8	-5.8
Sat 7-30	100	105.9	-5.9	78	84.8	-6.8
Sun 7-31	104	105.8	-1.8	79	84.7	-5.7

## HOT DAYS AND NIGHTS TRACKER

	Year to Date (2022)	Year to Date (2020)	Normal Year to Date
100°F days	68	77	63.1
110°F days	20	28	14.2
85°F nights	27	28	19.9

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. Excessive Heat Warnings have been in effect for 10 days thus far in 2022.

## 2. NATIONAL WEATHER SERVICE FORECAST

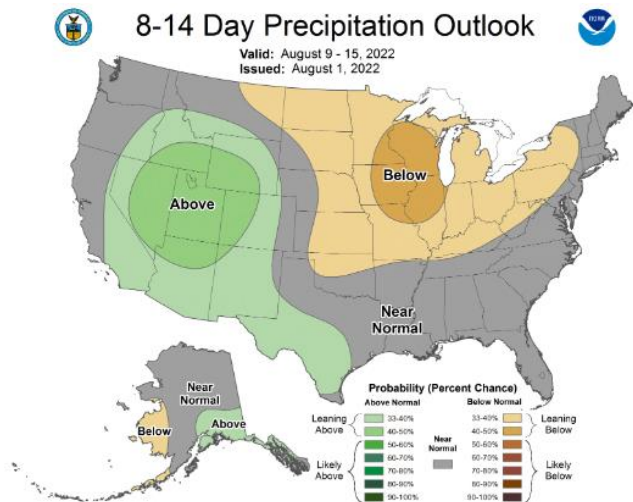
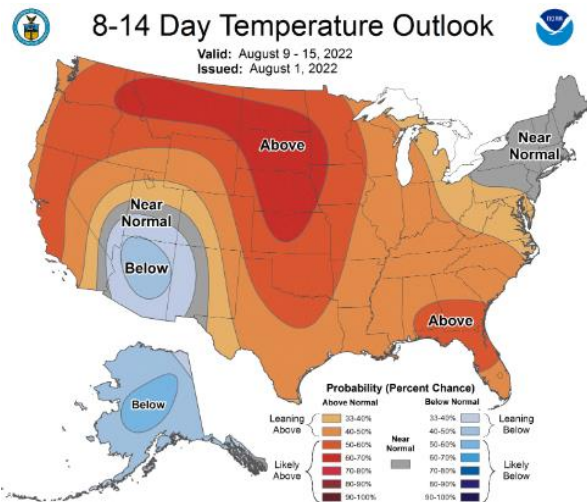
Temperatures are forecast to be at or below seasonal averages for the upcoming week. A moderate warmup for midweek is expected to yield to slightly cooler conditions and increasing storm probabilities for the weekend. The forecast includes Low and Moderate HeatRisk, per the National Weather Service.

Mon	Tue	Wed	Thu	Fri	Sat	Sun
104	106	106	105	103	103	103
87	86	86	85	84	85	84

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 shows a continuation of favorable chances for below average temperatures corresponding to an expectation of above-average precipitation activity. The normal daily high for the second week of August is 105°F.



### 3. HEAT-HEALTH DATA

#### HEAT-RELATED MORTALITY AND MORBIDITY

The Maricopa County Department of Public Health is reporting 38 confirmed heat-associated deaths for 2022, an increase of 9 cases from the previous reporting period. As of their July 23 report, there are 256 additional cases under investigation, an addition of 63 cases from the prior week. MCDPH heat-health reports are available online:

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

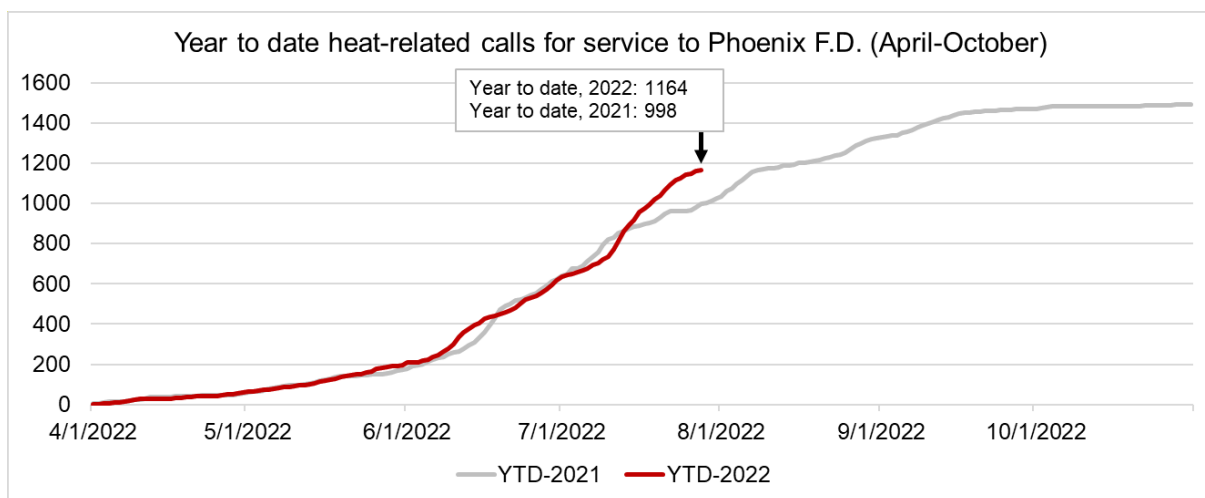
#### HEAT-RELATED CALLS FOR SERVICE TO PHOENIX FIRE DEPARTMENT

The Phoenix Fire Department responded to 41 calls for service identified by the dispatcher to be related to heat between July 25 and July 28\*. Advanced life support systems were deployed for 11 of the 41 calls. In 2021, the same 4-day period had 35 calls for service related to heat, with slightly lower temperatures (average high temperature of about 97°F in 2021 vs about 98°F in 2022).

The highest daily number of calls between July 25 and July 28 occurred on Monday, July 25 (high of 102°F), with 18 heat-related calls, which was less than the daily maximum number of calls the previous week (27 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).

**\*NOTE:** The reporting period for fire department calls in this week's report only includes the four days from July 25 – July 28, based on data availability.

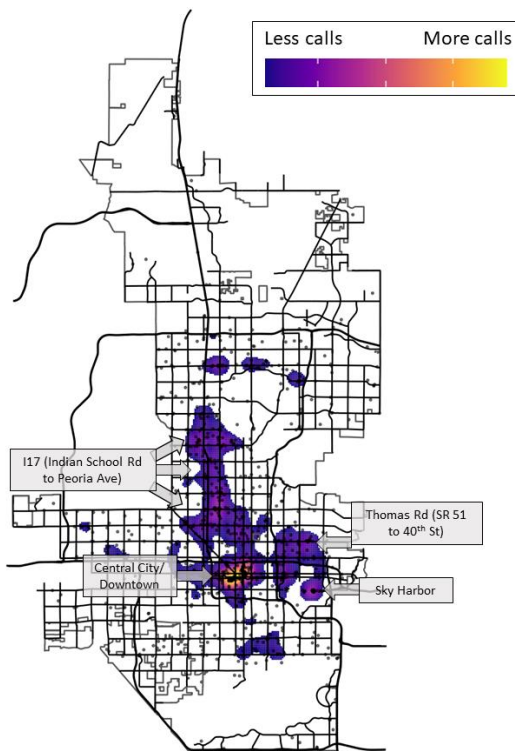
Year to date, heat-related calls for service to the Phoenix Fire Department are now running approximately 17% **higher** than 2021.



Spatially, since June 1, 2022 to date (through July 28), heat-related calls for service have continued to concentrate in a few areas: the Central City/Downtown area, Sky Harbor airport, and along the I-17 from Indian School Rd to Peoria Ave. Additionally, some more minor areas of concentration have occurred along Thomas Rd from State Route 51 to 40<sup>th</sup> St, around 24<sup>th</sup> St from Thomas Rd to Jefferson St, and near Central Ave between Camelback Rd and Thomas Rd. Over the past four days, the areas of concentration are less obvious given the limited data availability and the comparably lower number of calls last week, but a few areas experienced multiple calls, including Bethany Home Rd and 19<sup>th</sup> Ave, Van Buren St and 24<sup>th</sup> St, and Baseline Rd and 32<sup>nd</sup> St.

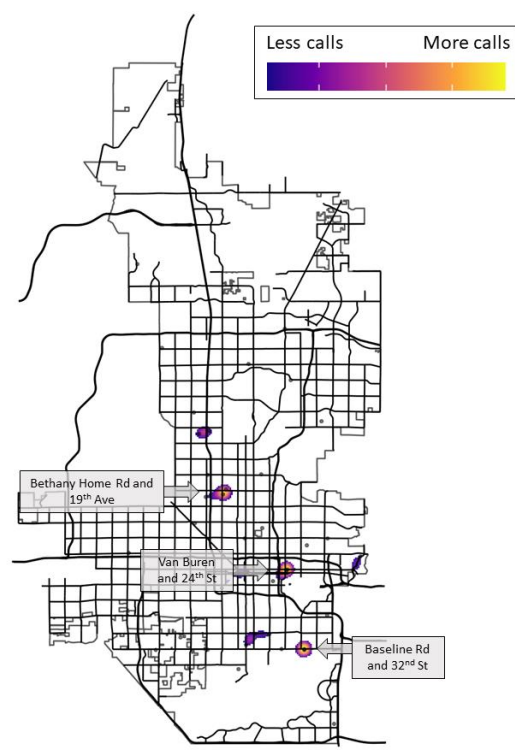
### June 1 – July 28

Map of Phoenix Fire Department calls for service related to heat June 1 – July 28, 2022  
 \*Note: Point locations are approximated based on partial addresses or cross streets.



### Last week (July 25 – July 28)

Map of Phoenix Fire Department calls for service related to heat July 25 – July 28, 2022  
 \*Note: Point locations are approximated based on partial addresses or cross streets.



## 4. COMMUNITY SEARCH DATA

### PHOENIX 3-1-1

There were 6 inquiries made through Phoenix 3-1-1 for July 25–July 29 that were related to summer heat, an increase of 4 calls from the week prior. Call topics spanned urban forestry, pools, media engagement, and air conditioning assistance.



## ARIZONA 2-1-1

There were 317 requests for electrical utility assistance fielded by Arizona 2-1-1 over the previous week in Maricopa County, which was approximately 10% more than the week prior.

## 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 weekly decline in searches related to heat warnings, air conditioning, heat exhaustion, cooling centers, swimming pools, and heat stroke.

## 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 (24 programs)
	Partially operational (2 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
<b>FOCUS AREA 1. Situational awareness at City Hall and real-time response</b>				
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. Customized cooling center maps are being prepared for fire stations in highly impacted areas.
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		Thirteenth report distributed August 1.
<b>FOCUS AREA 2. Public engagement, communications, and outreach</b>				
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		52 outreach shifts have been completed, with 44 focusing on street outreach and 8 at City trailheads. More than 2000 contacts have been made through this program. Supplies distributed include water, hats, sunscreen, cooling center maps, heat safety cards, cooling towels, misters, and umbrellas. Community volunteer onboarding and engagement continues to increase.
2.3 Cool Callers Volunteer Program	LIVING ALONE, LIMITED COOLING	VOL, OHRM		Multiple referrals to other City and regional services have been made through the first four weeks of phone calls. Enrollment of additional participants and volunteers continues with a round of volunteer training scheduled for the upcoming week.
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		Order fulfillment continues, with evaporative coolers and ice makers arriving in the coming weeks. 50 organizations have been allocated supplies with more than 37,500 individual items committed.
<b>FOCUS AREA 3. Publicly accessible cool space and drinking water</b>				
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. An upgrade to the cooling system at the new tent was made in late July.
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 are refining product specs with the manufacturer.
<b>FOCUS AREA 4. Supporting cool and safe home environments</b>				
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 has been disseminated through City platforms and channels. OHRM and 311 staff reviewed

				existing rules at the start of summer 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		Pools have transitioned to weekend-only operation for the month of August, as scheduled.
5.6 SunBlock Umbrella Distribution	ALL	A&C		Sun umbrellas featuring 14 designs from local artists have been delivered to Council offices and are beginning to be distributed 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

Public cooling centers and hydration stations are critical community resources for public health during the Phoenix summers. This year, the City of Phoenix has 56 facilities participating in the regional Heat Relief Network as cooling centers or hydration stations, including libraries, community centers, and senior centers. The role of cooling centers in protecting public health was recently examined in reporting by the Arizona Republic, linked below. The Republic article was written in response to an academic commentary in the scientific journal *Epidemiology*.

<https://www.azcentral.com/story/news/local/arizona-environment/2022/07/20/how-effective-cooling-centers-preventing-heat-related-deaths/10087174002/>

## 7. REGIONAL AND NATIONAL HIGHLIGHT

Last week, the federal government launched Heat.gov, a new public-facing resource from the National Integrated Heat Health Information System. In a press release, the National Oceanic and Atmospheric Administration noted that the website is designed “to provide the public and decision-makers with clear, timely and science-based information to understand and reduce the health risks of extreme heat. Heat.gov will provide a one-stop hub on heat and health for the nation and is a priority of President Biden’s National Climate Task Force and its Interagency Working Group on Extreme Heat.”



## 8. HEAT SAFETY – DID YOU KNOW?

The back-to-school season and resumption of sports activities for many young people in the community brings an increased risk for *exertional heat stroke*. Compared to classic heat stroke, exertional heat stroke occurs because of an increase in core body temperature attributable to strenuous activity and environmental conditions, rather than environmental conditions alone. Cases of exertional heat stroke are most commonly observed in young, healthy adults. Rapid cooling of the body is the best treatment option. Classic and exertional heat stroke are both life-threatening medical emergencies that require an immediate call to 9-1-1.

## 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).

## CITY OF PHOENIX WEEKLY HEAT RESPONSE UPDATE

MONDAY, AUGUST 8, 2022

REVIEWING MONDAY, AUGUST 1–SUNDAY, AUGUST 7

### Summary

The continuation of a favorable monsoon pattern has kept temperatures generally at or below climatological normals for another week. Only two days out of the past seven had daytime highs exceed expected temperatures for early August. The pace of heat-related deaths and illnesses has continued to decline from a peak in mid-to-late July, but cases continue to accumulate. The Maricopa County Department of Public Health confirmed four additional heat-related deaths, bringing the confirmed count for 2022 to 42. The Phoenix Fire Department responded to 89 heat-related calls last week, including 20 that required advanced life support systems.

Although temperatures have not been as extreme as they were earlier in the summer, they are still sufficiently high to cause public health impacts, especially among the most vulnerable community members. Similar conditions are expected for the upcoming week.

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

A favorable pattern for cloud cover and precipitation remained in place through much of the previous week, resulting in temperatures that were near or below seasonal averages. Elevated atmospheric moisture and cloud cover led to relatively warm nights compared to the daytime conditions, with the exception of nights with rain and thunderstorm activity that dropped lows well below seasonal averages. This summer (April 1 to present) is now approximately 0.5°F hotter than the same period in 2021 and 2.5°F higher than the climatological normal.

Red=highest high Blue=lowest high low breaks ties	Daily High °F	Normal High °F	vs. Normal °F	Daily Low °F	Normal Low °F	vs. Normal °F
Mon 8-1	105	105.7	-0.7	85	84.6	0.4
Tues 8-2	107	105.6	1.4	89	84.5	4.5
Weds 8-3	101	105.6	-4.6	87	84.5	2.5
Thurs 8-4	95	105.6	-10.6	75	84.4	-9.4
Fri 8-5	102	105.5	-3.5	80	84.3	-4.3
Sat 8-6	108	105.5	2.5	86	84.3	1.7
Sun 8-7	105	105.4	-0.4	88	84.2	3.8

## HOT DAYS AND NIGHTS TRACKER

	Year to Date (2022)	Year to Date (2020)	Normal Year to Date
100°F days	74	84	69.4
110°F days	20	32	15.9
85°F nights	32	33	23.7

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. Excessive Heat Warnings have been in effect for 10 days thus far in 2022.

## 2. NATIONAL WEATHER SERVICE FORECAST

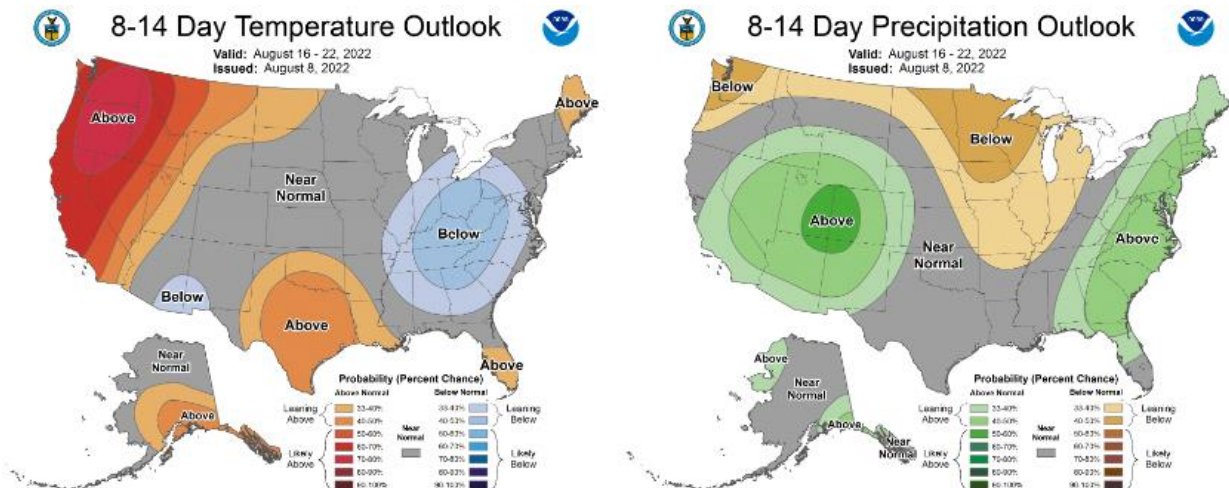
Temperatures are forecast to be at or below seasonal averages for another week, with every day classified as Low HeatRisk per the National Weather Service. The lower temperatures are attributable to higher atmospheric moisture and elevated chances for precipitation and thunderstorms. Rainfall chances are at or above 30% each day of the forecast period.

Mon	Tue	Wed	Thu	Fri	Sat	Sun
103	102	102	105	102	102	102
84	83	84	84	83	82	83

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
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The early forecast for the following week shows a transition in the national weather pattern that will bring relief to the middle and eastern part of the country from persistent heat. The odds remain favorable for above-average precipitation activity in central Arizona, and as such, temperatures at or below normal. The normal daily high for the third week of August is 105°F.



### 3. HEAT-HEALTH DATA

#### HEAT-RELATED MORTALITY AND MORBIDITY

The Maricopa County Department of Public Health is reporting 42 confirmed heat-associated deaths for 2022, an increase of 4 cases from the previous reporting period. As of their July 30 report, there are 282 additional cases under investigation, an addition of 26 cases from the prior week. MCDPH heat-health reports are available online:

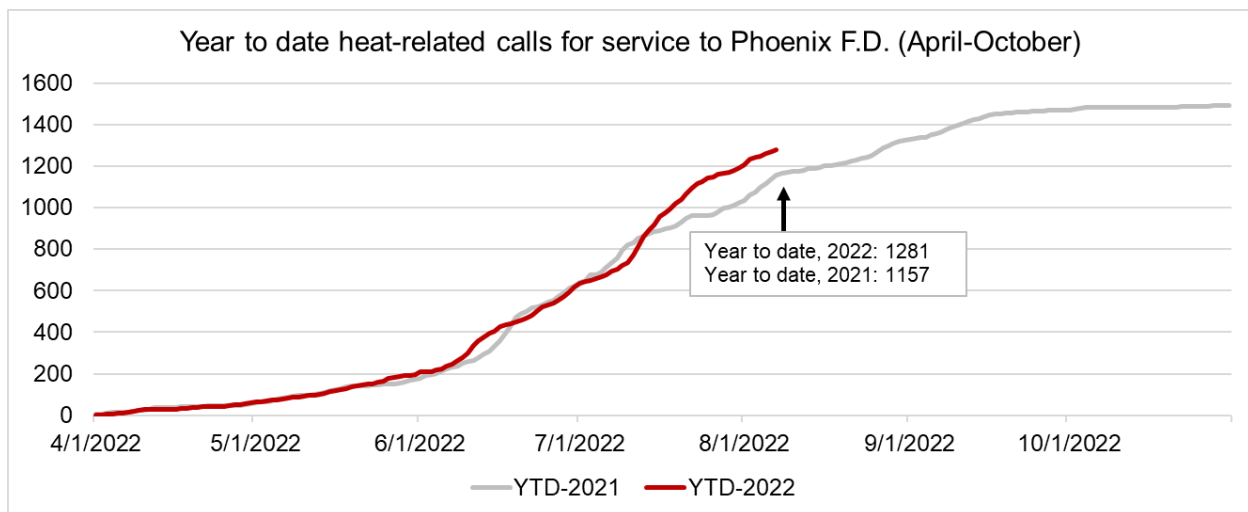
<https://www.maricopa.gov/1858/Heat-Surveillance>.

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

The Phoenix Fire Department responded to 89 calls for service identified by the dispatcher to be related to heat over the previous week. This was more than the number of calls as the week prior (69 calls, an increase of about 29%). Advanced life support systems were deployed for 20 of the 89 calls. In 2021, the same 7-day period had 134 calls for service related to heat, with significantly higher temperatures (average high temperature of about 110°F in 2021 and 103°F in 2022).

The highest daily number of calls over the previous week occurred on Tuesday, August 2 (high of 107°F), with 28 heat-related calls, which was more than the daily maximum number of calls last week (18 calls). June 19 had the most heat-related calls last year with 43, with a high temperature of 116°F. This year, to date, the highest number of heat-related calls occurred on July 13, with 52 calls and a high temperature of 113°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 11% **higher** than 2021.

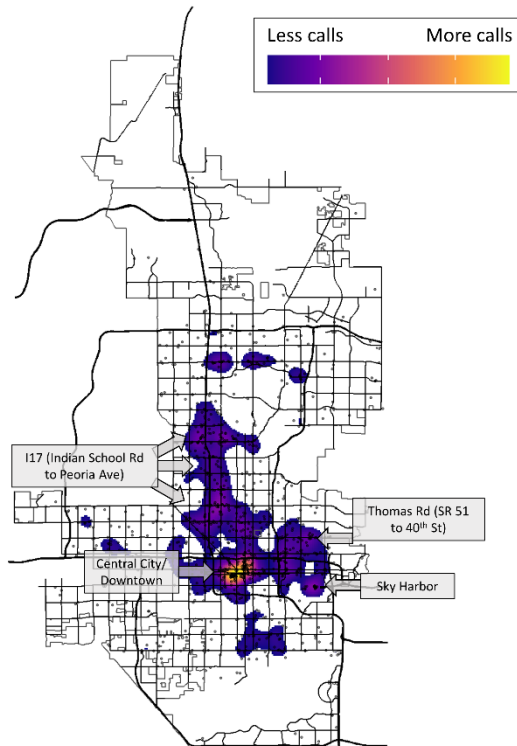


Spatially, since June 1, 2022 to date (through August 7), heat-related calls for service have continued to concentrate in a few areas: the Central City/Downtown area, Sky Harbor airport, and along the I-17 from Indian School Rd to Peoria Ave. Additionally, some more minor areas of concentration are present on Thomas Rd from State Route 51 to 40<sup>th</sup> St, around 24<sup>th</sup> St from Thomas Rd to Jefferson St, and near Central Ave between Camelback Rd and Thomas Rd.

Over the past week, the areas of concentration included Central City/Downtown, the Loop 2020 & State Route 51, Indian School Rd & Central Ave, and 7<sup>th</sup> St & Dunlap Ave.

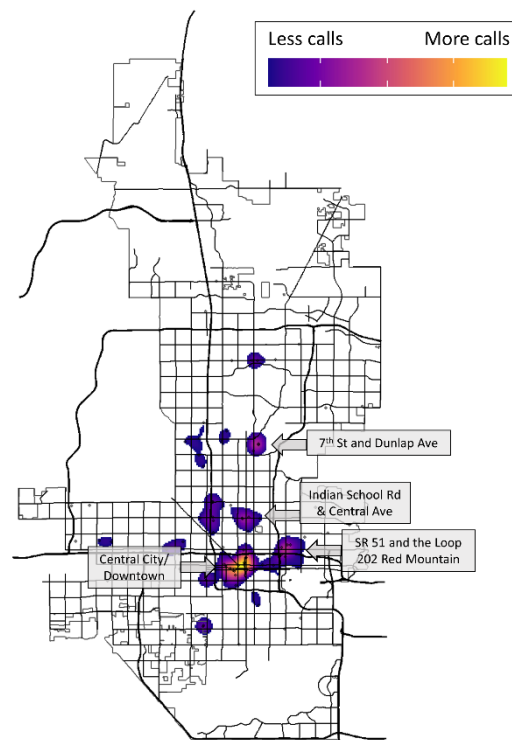
### June 1 – August 7

Map of Phoenix Fire Department calls for service related to heat June 1 – August 7, 2022  
\*Note: Point locations are approximated based on partial addresses or cross streets.



### Last week (August 1 – August 7)

Map of Phoenix Fire Department calls for service related to heat August 1 – August 7, 2022  
\*Note: Point locations are approximated based on partial addresses or cross streets.



A dynamic web map of call density from June 1 to August 7, 2022 is also available online:  
<https://asu.maps.arcgis.com/apps/mapviewer/index.html?webmap=e8e87b3c56f4428fb6d74716d5066ba0>



## 4. COMMUNITY SEARCH DATA

### PHOENIX 3-1-1

There were 6 inquires made through Phoenix 3-1-1 for August 1–5 that were related to summer heat, the same call volume as the week prior. Call topics spanned urban forestry, housing repair, and swimming pools.

### ARIZONA 2-1-1

There were 316 requests for electrical utility assistance fielded by Arizona 2-1-1 over the previous week in Maricopa County, which was nearly identical to the week prior.

### 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 slight weekly increase in searches related to heat exhaustion and heat stroke, no pattern in searches related to air conditioning, cooling centers, and swimming pools, and no recent activity related to heat warnings.

## 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 (24 programs)
	Partially operational (2 programs)
	Planning and preparation (5 programs)
	No action to date (0 programs)

City of Phoenix Heat Response Programs and Services – Summer 2022				
Initiative	Target population	Lead depts.	Status	Updates
FOCUS AREA I. 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. Customized cooling center maps are being prepared for fire stations in highly impacted areas.
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		Fourteenth report distributed August 8.
<b>FOCUS AREA 2. Public engagement, communications, and outreach</b>				
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		55 outreach shifts have been completed, with 46 focusing on street outreach and 9 at City trailheads. More than 2200 contacts have been made through this program. Supplies distributed include water, hats, sunscreen, cooling center maps, heat safety cards, cooling towels, misters, and umbrellas. Community volunteer onboarding and engagement continues to increase.
2.3 Cool Callers Volunteer Program	LIVING ALONE, LIMITED COOLING	VOL, OHRM		Multiple referrals to other City and regional services have been made through the first six weeks of phone calls. Enrollment of additional participants and volunteers continues.
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		Order fulfillment continues. 50 organizations have been allocated supplies with more than 38,000 individual items committed.
<b>FOCUS AREA 3. Publicly accessible cool space and drinking water</b>				
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. An upgrade to the cooling system at the new tent was made in late July.
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 are reviewing public health and safety guidelines for proposed trailers with the health department.
<b>FOCUS AREA 4. Supporting cool and safe home environments</b>				
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 has been disseminated through City platforms and channels. OHRM and 311 staff reviewed existing rules at the start of summer 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		Pools have transitioned to weekend-only operation for the month of August, as scheduled.
5.6 SunBlock Umbrella Distribution	ALL	A&C		Sun umbrellas featuring 14 designs from local artists have been delivered to Council offices and are beginning to be distributed 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



Last week marked the end of service for AmeriCorps Vista Summer Associate Emily Shiels. Emily joined the City of Phoenix team in June to support the Office of Volunteer Programs and Office of Heat Response and Mitigation through the AmeriCorps program. She was a key contributor to the City’s heat relief outreach efforts, helping with planning and logistics and participating in dozens of We’re Cool shifts. She led the development and production of community cooling resource maps for outreach teams, other City departments, and multiple local nonprofits.

During her tenure, Emily engaged with hundreds of Phoenix's most heat vulnerable residents, distributing heat relief supplies, sharing information, and facilitating connections to critical social services. She also helped rescue and find a new home for an overheated and abandoned dog! Emily is returning to Penn State University for the fall semester, where she is pursuing majors in Geography and Global and International Studies. Thank you for your service, Emily!

## 7. REGIONAL AND NATIONAL HIGHLIGHT

Drinking water accessibility has improved in the vicinity of the Human Services Campus in downtown Phoenix. Two chilled water systems have been installed to help people experiencing homelessness. One system is accessible 24/7 near the Respiro structure, and a second system is available 8am-5pm daily at the shade structure at 12<sup>th</sup> Avenue and Madison Street. These resources augment the significant supply of bottled water available through the Human Services Campus. Cooling and hydration resources in the vicinity of the Campus are provided through a partnership between the City, County, Human Services Campus, and other local organizations.



## 8. HEAT SAFETY – DID YOU KNOW?

Anti-platelet medications and beta-receptor blockers were found to increase risk of heat-related heart attack in a new study released this week in *Nature Cardiovascular Research*. The study was based on records of nearly 2,500 non-fatal heart attacks in Germany over a 14-year period. The increased risk was especially prominent among younger patients.

## 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).

## CITY OF PHOENIX WEEKLY HEAT RESPONSE UPDATE

MONDAY, AUGUST 15, 2022

REVIEWING MONDAY, AUGUST 8–SUNDAY, AUGUST 14

### Summary

Temperatures continue to trend below seasonal normals. After a brief warmup to near-normal conditions during the middle of the upcoming week, a cool and potentially rainy weekend awaits thereafter. Public health impacts from heat continued to trend downward, but are still accumulating. The Maricopa County Department of Public Health confirmed two additional heat-associated deaths, bringing the confirmed count for 2022 to 44. The Phoenix Fire Department responded to 61 heat-related calls for service, which marked a recent weekly low but kept the annual total above the year-to-date pace from 2021.

Most heat response programs and services are currently scheduled to operate for another 6-7 weeks, through the end of September. Achieving the heat response plan goal of fewer heat-related illnesses and deaths than 2021 will require that all programs and services continue to operate as effectively as possible for the remainder of the warm season. The Office of Heat Response and Mitigation is available as a resource to help departments as needed.

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

A persistent and favorable monsoon pattern has kept temperatures near or below seasonal averages for yet another week. Daily high temperatures only eclipsed climatological normals on one day of the previous seven, as was the case for nighttime lows. Despite the relatively cool week, the same period was exceptionally cool last year with five days in the 90s; this summer (April 1 to present) is now approximately 0.8°F hotter than the same period in 2021. It is now 2.2°F higher than the climatological normal.

Red=highest high Blue=lowest high low breaks ties	Daily High °F	Normal High °F	vs. Normal °F	Daily Low °F	Normal Low °F	vs. Normal °F
Mon 8-8	104	105.4	-1.4	85	84.2	0.8
Tues 8-9	98	105.4	-7.4	76	84.1	-8.1
Weds 8-10	104	105.3	-1.3	84	84	0
Thurs 8-11	105	105.3	-0.3	84	84	0
Fri 8-12	106	105.3	0.7	80	83.9	-3.9
Sat 8-13	104	105.3	-1.3	81	83.9	-2.9
Sun 8-14	101	105.2	-4.2	81	83.8	-2.8

## HOT DAYS AND NIGHTS TRACKER

	Year to Date (2022)	Year to Date (2020)	Normal Year to Date
100°F days	80	91	75.7
110°F days	20	38	17.4
85°F nights	33	38	27.0

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. Excessive Heat Warnings have been in effect for 10 days thus far in 2022.

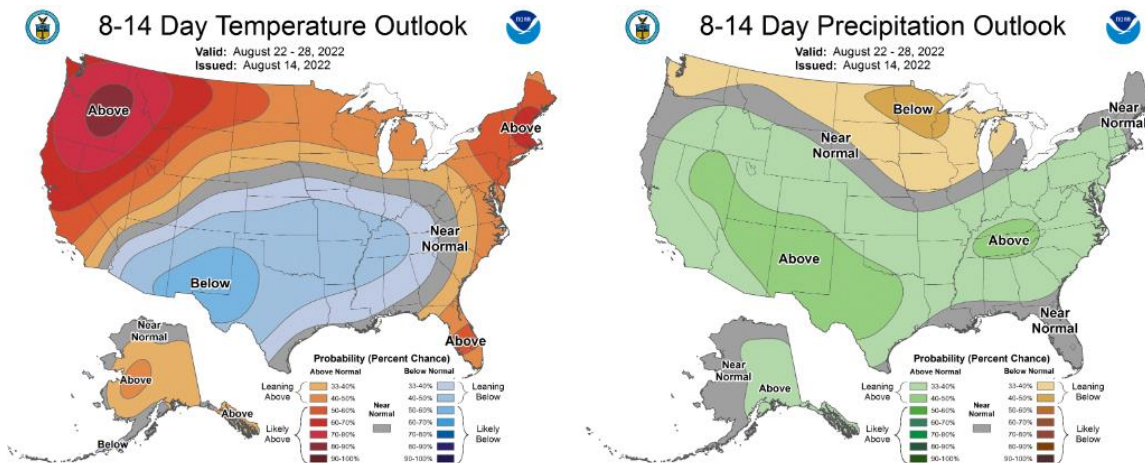
## 2. NATIONAL WEATHER SERVICE FORECAST

Temperatures are forecast to be at or below seasonal averages for yet another week, with every day classified as Low HeatRisk per the National Weather Service. Conditions are favorable for widespread, prolonged, and potentially significant storm and precipitation activity beginning later this week that would keep weekend temperatures quite low by Phoenix standards for mid-August.

Mon	Tue	Wed	Thu	Fri	Sat	Sun
103	104	104	101	98	93	94
84	85	84	82	79	78	80

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 keeps temperatures below average and precipitation above average for much of the southwestern U.S. The normal daily high for the third week of August is 104°F.



### 3. HEAT-HEALTH DATA

#### HEAT-RELATED MORTALITY AND MORBIDITY

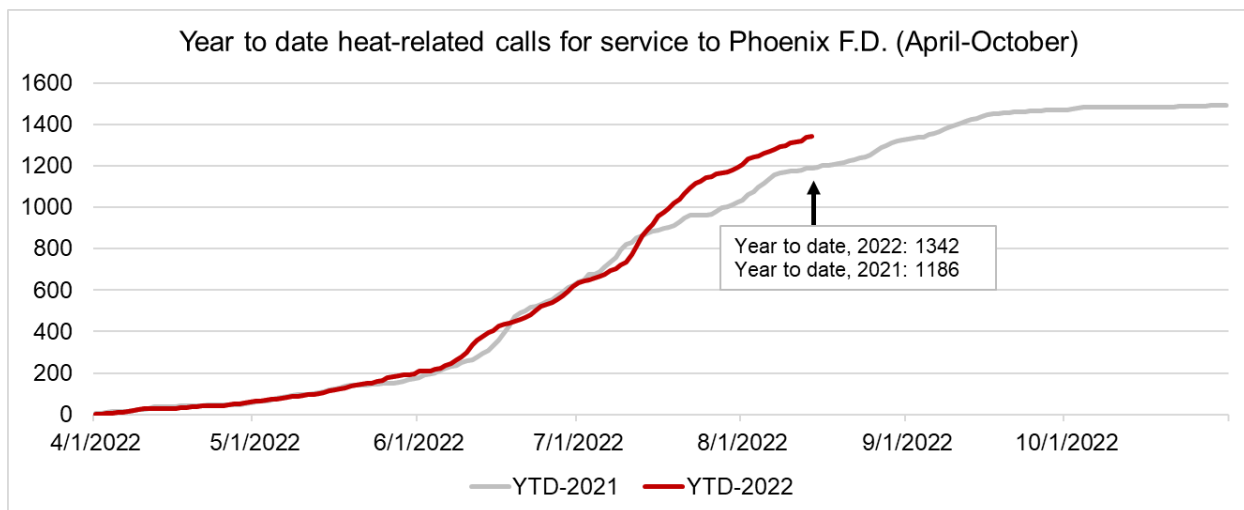
The Maricopa County Department of Public Health is reporting 44 confirmed heat-associated deaths for 2022, an increase of 2 cases from the previous reporting period. As of their August 6 report, there are 287 additional cases under investigation, an addition of 5 cases from the prior week. MCDPH heat-health 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 61 calls for service identified by the dispatcher to be related to heat over the previous week. This was less than the number of calls as the week prior (89 calls, a decrease of about 29%). Advanced life support systems were deployed for 25 of the 61 calls. In 2021, the same 7-day period had 29 calls for service related to heat, with significantly lower temperatures (average high temperature of about 98°F in 2021 and 103°F in 2022).

The highest daily number of calls over the previous week occurred on Saturday, August 13 (high of 104°F), with 21 heat-related calls, which was less than the daily maximum number of calls last week (28 calls). June 19 had the most heat-related calls last year with 43, with a high temperature of 116°F. This year, to date, the highest number of heat-related calls occurred on July 13, with 52 calls and a high temperature of 113°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 13% **higher** than 2021.



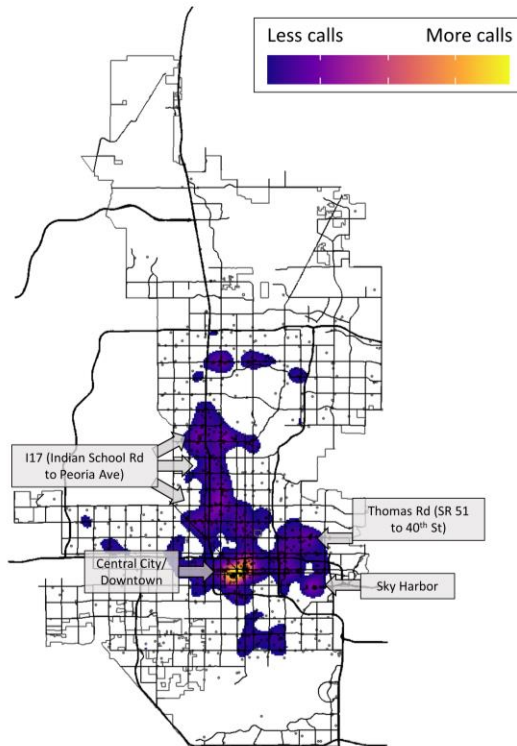


Spatially, since June 1, 2022 to date (through August 14), heat-related calls for service have continued to concentrate in a few areas: the Central City/Downtown area, Sky Harbor airport, and along the I-17 from Indian School Rd to Peoria Ave. Additionally, some more minor areas of concentration are present on Thomas Rd from State Route 51 to 40<sup>th</sup> St, around 24<sup>th</sup> St from Thomas Rd to Jefferson St, and near Central Ave between Camelback Rd and Thomas Rd.

Over the past week, calls were highly concentrated in the Central City/Downtown region, with nearly one-third of all calls this past week occurring here.

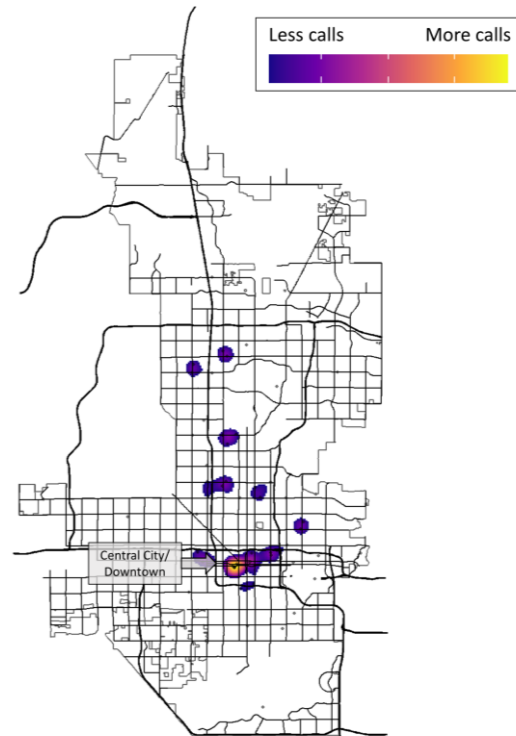
### June 1 – August 14

Map of Phoenix Fire Department calls for service related to heat June 1 – August 14, 2022  
\*Note: Point locations are approximated based on partial addresses or cross streets.



### Last week (August 8 – August 14)

Map of Phoenix Fire Department calls for service related to heat August 8 – August 14, 2022  
\*Note: Point locations are approximated based on partial addresses or cross streets.



A dynamic web map of call density from June 1 to August 14, 2022 is also available online:  
<https://asu.maps.arcgis.com/apps/mapviewer/index.html?webmap=e8e87b3c56f4428fb6d74716d5066ba0>

## 4. COMMUNITY SEARCH DATA

### PHOENIX 3-1-1

There were 8 inquires made through Phoenix 3-1-1 for August 1–5 that were related to summer heat, an increase of two calls from the week prior. Four calls were related to tree damage and downed trees; other calls were related to air conditioning assistance and swimming pools.

### ARIZONA 2-1-1

There were 361 requests for electrical utility assistance fielded by Arizona 2-1-1 over the previous week in Maricopa County, which was a 14% increase from the week prior.

### 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 later this summer. Publicly available Google Trends data for Arizona showed a slight weekly increase in searches related to cooling centers. Searches related to heat exhaustion, heat stroke, air conditioning, swimming pools, and heat warnings all trended downward or remained low.

## 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 (24 programs)
	Partially operational (2 programs)
	Planning and preparation (5 programs)
	No action to date (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. Customized cooling center maps are being prepared for fire stations in highly impacted areas.
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		Fifteenth report distributed August 15.
<b>FOCUS AREA 2. Public engagement, communications, and outreach</b>				
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		59 outreach shifts have been completed, with 49 focusing on street outreach and 10 at City trailheads. More than 2500 contacts have been made through this program. Supplies distributed include water, hats, sunscreen, cooling center maps, heat safety cards, cooling towels, misters, and umbrellas. Community volunteer onboarding and engagement continues to increase.
2.3 Cool Callers Volunteer Program	LIVING ALONE, LIMITED COOLING	VOL, OHRM		Multiple referrals to other City and regional services have been made through the first six weeks of phone calls. Enrollment of additional participants and volunteers continues.
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		Order fulfillment continues. 50 organizations have been allocated supplies with more than 38,000 individual items committed.
<b>FOCUS AREA 3. Publicly accessible cool space and drinking water</b>				
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. An upgrade to the cooling system at the new tent was made in late July.
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 are reviewing public health and safety guidelines for proposed trailers with the health department.
<b>FOCUS AREA 4. Supporting cool and safe home environments</b>				
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 has been disseminated through City platforms and channels. OHRM and 311 staff reviewed existing rules at the start of summer 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 operation; 76 new shade structures installed thus far in calendar year 2022.
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		Pools have transitioned to weekend-only operation for the month of August, as scheduled.
5.6 SunBlock Umbrella Distribution	ALL	A&C		Sun umbrellas featuring 14 designs from local artists have been delivered to Council offices and are beginning to be distributed 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 Public Transit Department continues improving shade accessibility at City bus stops. Thus far in calendar year 2022, 76 shade structures have been added to locations that previously did not have shade. The department is well ahead of schedule to meet their goal of 80 new shade structures this year! Recent additions include four new structures on Van Buren Street, at 55<sup>th</sup>, 63<sup>rd</sup>, 69<sup>th</sup>, and 73<sup>rd</sup> avenues. The structures being installed this year reflect a new design that provides more shade coverage for people waiting at bus stops.

## 7. REGIONAL AND NATIONAL HIGHLIGHT



The next Project Connect event organized by the Human Services Campus will be on Tuesday, August 30. Project Connect brings together many regional service providers to help people get assistance with housing, shelter, benefits, identification, and other basic health and human services. The next event will be held in the parking lot on the northwest corner of Madison Street and 12<sup>th</sup> Avenue, and services will be provided between 8:00am and 2:00pm. Those interested in volunteering at the event can sign up at [hscforms.com/projectconnect](https://hscforms.com/projectconnect).

## 8. HEAT SAFETY – DID YOU KNOW?

Heat illness is often thought of as a consequence of outdoor exposure, but many cases of indoor overheating occur each year in our region as well. Certain home improvements can make a major difference in keeping temperatures and energy costs low, and significant rebates are available from both APS and SRP to help customers stay cool. Among the current rebates: APS is offering a \$30 bill credit with the purchase of a qualifying smart thermostat, and \$70 for installation of a cool control device. SRP is offering free virtual home energy assessments, and up to \$100 for smart thermostat users. Both utilities offer even larger rebates for other types of home upgrades.

## 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).

## CITY OF PHOENIX WEEKLY HEAT RESPONSE UPDATE

MONDAY, AUGUST 22, 2022

REVIEWING MONDAY, AUGUST 15–SUNDAY, AUGUST 21

### Summary

Relatively mild conditions continued for another week and current forecasts suggest that the current weather pattern may remain in place for at least another six to seven days. The number of heat-associated deaths reported by the Maricopa County Department of Public Health dropped for a fourth straight week. Heat-related calls to the Phoenix Fire Department also trended downward but remained above last year's pace.

The Office of Heat Response and Mitigation will be approaching individual departments that coordinate heat response programs and services to begin scheduling post-season evaluation interviews in the near future. Completing an evaluation of each of the City's heat response programs and services was one of three goals in the Council-approved 2022 Heat Response Plan.

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

Elevated atmospheric moisture and continued rainfall and storm activity continue to keep temperatures at or below those typically expected for this time of the year. For the second straight week, daily high temperatures only eclipsed climatological normals only once. The third week of August was also relatively cool last year, which resulted in the year-to-date temperature difference versus 2021 trending upwards. This summer (April 1 to present) is now approximately 0.9°F hotter than the same period in 2021. The difference to the long-term average trended down, however, to 1.9°F higher than the climatological normal. The number of 100°F and 110°F days this year remains above the long-term average, but only slightly.

Red=highest high Blue=lowest high low breaks ties	Daily High °F	Normal High °F	vs. Normal °F	Daily Low °F	Normal Low °F	vs. Normal °F
	102	105.2	-3.2	79	83.7	-4.7
	105	105.2	-0.2	85	83.7	1.3
	106	105.1	0.9	84	83.6	0.4
	105	105.1	-0.1	82	83.5	-1.5
	99	105.1	-6.1	78	83.5	-5.5
	97	105	-8	79	83.4	-4.4
	97	105	-8	78	83.3	-5.3

## HOT DAYS AND NIGHTS TRACKER

	Year to Date (2022)	Year to Date (2020)	Normal Year to Date
100°F days	84	98	82.0
110°F days	20	44	18.4
85°F nights	34	43	29.9

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. Excessive Heat Warnings have been in effect for 10 days thus far in 2022.

## 2. NATIONAL WEATHER SERVICE FORECAST

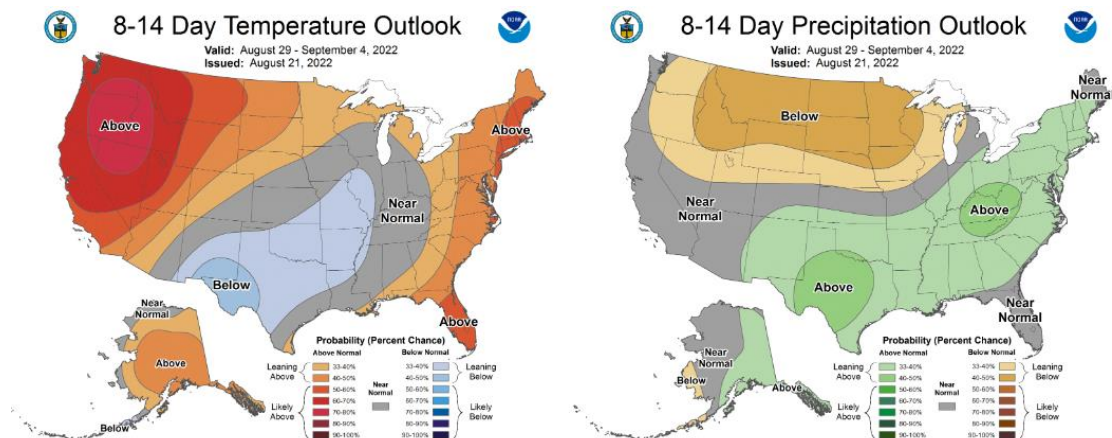
Seasonally mild temperatures are forecast for the upcoming week with expected high temperatures in the low 100s. Every day in the forecast period is classified as Low HeatRisk per the National Weather Service. Conditions remain favorable for occasional storm and precipitation activity.

Mon	Tue	Wed	Thu	Fri	Sat	Sun
98	102	100	100	102	101	101
83	82	80	83	81	80	81

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 seasonally typical temperatures and precipitation activity, following a period that had elevated rainfall and lower temperatures. The normal daily high for the fourth week of August is 104°F.





### 3. HEAT-HEALTH DATA

#### HEAT-RELATED MORTALITY AND MORBIDITY

The Maricopa County Department of Public Health is reporting 66 confirmed heat-associated deaths for 2022, an increase of 22 cases from the previous reporting period. As of their August 13 report, there are 268 additional cases under investigation, which is 19 cases lower than the week before. In each of the past two weeks, fewer than 10 new cases have been added to the under investigation list. All MCDPH heat-health reports are available online:

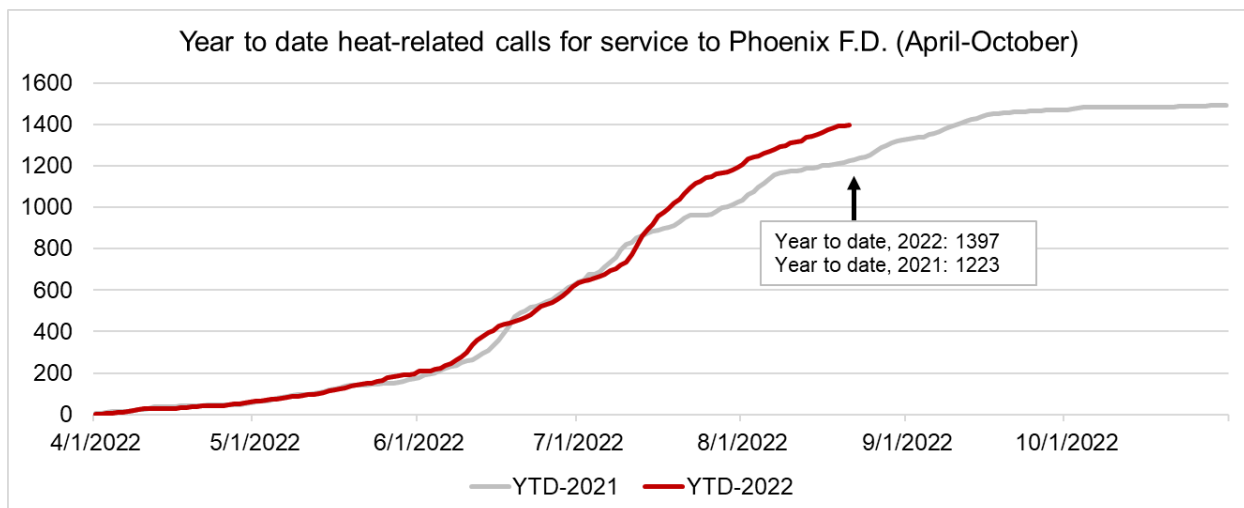
<https://www.maricopa.gov/1858/Heat-Surveillance>.

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

The Phoenix Fire Department responded to 55 calls for service identified by the dispatcher to be related to heat over the previous week. This was less than the number of calls as the week prior (61 calls, a decrease of about 11%). Advanced life support systems were deployed for 20 of the 55 calls. In 2021, the same 7-day period had 35 calls for service related to heat, with somewhat lower temperatures (average high temperature of about 98°F in 2021 and 102°F in 2022).

The highest daily number of calls over the previous week occurred on Thursday, August 18 (high of 105°F), with 12 heat-related calls, which was less than the daily maximum number of calls last week (21 calls). June 19 had the most heat-related calls last year with 43, with a high temperature of 116°F. This year, to date, the highest number of heat-related calls occurred on July 13, with 52 calls and a high temperature of 113°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 14% **higher** than 2021.

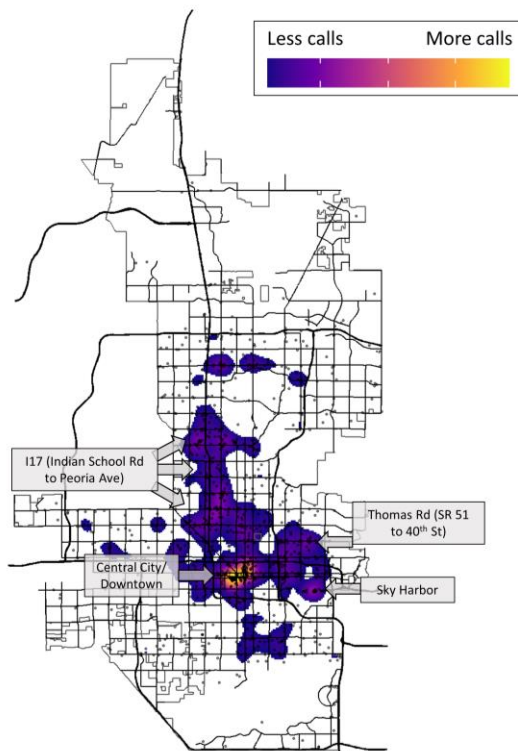


Spatially, since June 1, 2022 to date (through August 21), heat-related calls for service have continued to concentrate in a few areas: the Central City/Downtown area, Sky Harbor airport, and along the I-17 from Indian School Rd to Peoria Ave. Additionally, some more minor areas of concentration are present on Thomas Rd from State Route 51 to 40<sup>th</sup> St, around 24<sup>th</sup> St from Thomas Rd to Jefferson St, and near Central Ave between Camelback Rd and Thomas Rd.

Over the past week, calls were highly concentrated in the Central City/Downtown region, especially east of 7<sup>th</sup> Ave and north of Jefferson St. Additionally, a few hotspots occurred this past week near I-17 & Dunlap Ave (Metro Parkway), Indian School Rd & 51<sup>st</sup> Ave, and north of the I-10 between 35<sup>th</sup> Ave and 43<sup>rd</sup> Ave.

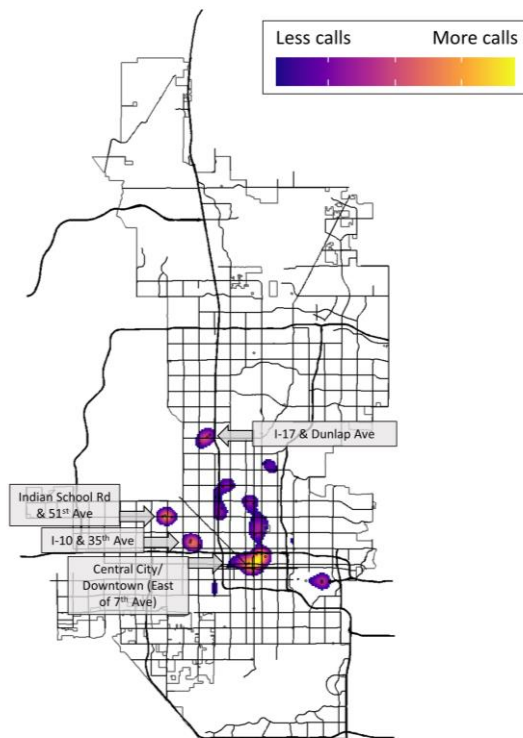
### June 1 – August 21

Map of Phoenix Fire Department calls for service related to heat June 1 – August 21, 2022  
\*Note: Point locations are approximated based on partial addresses or cross streets.



### Last week (August 15 – August 21)

Map of Phoenix Fire Department calls for service related to heat August 15 – August 21, 2022  
\*Note: Point locations are approximated based on partial addresses or cross streets.



A dynamic web map of call density from June 1 to August 21, 2022 is also available online:  
<https://asu.maps.arcgis.com/apps/mapviewer/index.html?webmap=e8e87b3c56f4428fb6d74716d5066ba0>

## 4. COMMUNITY SEARCH DATA

### PHOENIX 3-1-1

There were 4 inquires made through Phoenix 3-1-1 for August 15–19 that were related to summer heat, a decrease of four calls from the week prior. Two calls were related to swimming pools and two were related to tree maintenance.

### ARIZONA 2-1-1

There were 296 requests for electrical utility assistance fielded by Arizona 2-1-1 over the previous week in Maricopa County, which was an 18% decrease from the week prior.

### 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 later this summer. Publicly available Google Trends data for Arizona showed that searches for cooling centers, heat exhaustion, heat stroke, air conditioning, swimming pools, and heat warnings all trended downward or remained low over the past week.

## 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 (24 programs)
	Partially operational (2 programs)
	Planning and preparation (5 programs)
	No action to date (0 programs)

City of Phoenix Heat Response Programs and Services – Summer 2022				
Initiative	Target population	Lead depts.	Status	Updates
FOCUS AREA I. 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. Customized cooling center maps are being prepared for fire stations in highly impacted areas.

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		Sixteenth report distributed August 22.
<b>FOCUS AREA 2. Public engagement, communications, and outreach</b>				
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		62 outreach shifts have been completed, with 52 focusing on street outreach and 10 at City trailheads. More than 2600 contacts have been made through this program. Supplies distributed include water, hats, sunscreen, cooling center maps, heat safety cards, cooling towels, misters, and umbrellas. Community volunteer onboarding and engagement continues to increase.
2.3 Cool Callers Volunteer Program	LIVING ALONE, LIMITED COOLING	VOL, OHRM		Multiple referrals to other City and regional services have been made through the first six weeks of phone calls. Enrollment of additional participants and volunteers continues.
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		Order fulfillment continues. 50 organizations have been allocated supplies with more than 38,000 individual items committed.
<b>FOCUS AREA 3. Publicly accessible cool space and drinking water</b>				
3.1 Supporting the regional Heat Relief Network	ALL	OHRM, LIBRARY, PARKS, HSD		55 City facilities are currently participating as cooling centers or hydration stations. One library location has been removed from the network for facility repairs. 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. An upgrade to the cooling system at the new tent was made in late July.
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 are reviewing public health and safety guidelines for proposed trailers with the health department.
<b>FOCUS AREA 4. Supporting cool and safe home environments</b>				
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 has been disseminated through City platforms and channels. OHRM and 311 staff reviewed existing rules at the start of summer 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; 76 new shade structures installed thus far in calendar year 2022.
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		Pools have transitioned to weekend-only operation for the month of August, as scheduled.
5.6 SunBlock Umbrella Distribution	ALL	A&C		Sun umbrellas featuring 14 designs from local artists have been delivered to Council offices and are beginning to be distributed 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’s We’re Cool heat relief outreach effort completed its 60<sup>th</sup> shift of the summer last week. Street outreach shifts take place on Tuesday and Thursday mornings and afternoons at locations throughout the City with known communities of people experiencing homelessness. On each shift, staff and volunteers distribute heat relief supplies, share information about community cooling resources, and strive to connect people to social service programs for food, hygiene, income, and shelter. More than 2,600 engagements have been recorded through this initiative so far in 2022 with nearly 8,000 items distributed. Staff from all departments are welcome to participate and can sign up by e-mailing [volunteer@phoenix.gov](mailto:volunteer@phoenix.gov).

## 7. REGIONAL AND NATIONAL HIGHLIGHT



Arizona State University researchers have recently been awarded a \$2M grant from the National Science Foundation to improve our understanding of human heat stress. The five-year project funded by the Directorate for Engineering is titled “Dynamic Sensing and Computational Approaches to Assess Individual-level Heat Risk Across Diverse Populations.” A central component of the research is the use of a thermal manikin that mimics the human body system’s performance in hot weather. The project team, led by engineering professor Konrad Rykaczewski, has a robust public and education plan to accompany the research activities, including engagement of communities underrepresented in science and engineering. More information is available online: [https://www.nsf.gov/awardsearch/showAward?AWD\\_ID=2152468](https://www.nsf.gov/awardsearch/showAward?AWD_ID=2152468) .

## 8. HEAT SAFETY – DID YOU KNOW?

Both major electric utilities serving the City of Phoenix offer a wide range of assistance programs to help customers manage their accounts and the cost of electricity. Among their many programs, SRP and APS both offer “Safety Net” programs that provide copies of monthly bills and other important notifications to trusted friends or relatives. These initiatives can help customers keep accounts current and avoid disconnection. More information about the programs is available on each company’s website.

## 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).

## CITY OF PHOENIX WEEKLY HEAT RESPONSE UPDATE

MONDAY, AUGUST 29, 2022

REVIEWING MONDAY, AUGUST 22–SUNDAY, AUGUST 28

### Summary

An Excessive Heat Warning is in effect for the first time in more than a month and includes Tuesday and Wednesday. Temperatures are forecast to surpass 110°F on Tuesday and remain above seasonal normals through at least the Labor Day weekend. Every day in the forecast period presents Moderate to High HeatRisk, according to the National Weather Service.

Heat-related calls to the Phoenix Fire Department trended upwards last week to an average of ten per day. The total number of heat-related calls from 2021 is likely to be eclipsed in the upcoming week. The Maricopa County Department of Public Health confirmed 16 additional cases in their most recent report, bringing the annual total for the County to 82.

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

The previous week saw favorable conditions for monsoon rainfall and storms taper off, with temperatures returning to seasonal averages. Daily high temperatures were within 2°F of normal for each of the last four days; overnight lows trended slightly higher than the long-term averages. This summer (April 1 to present) is now approximately 0.6°F hotter than the same period in 2021, and 1.8°F higher than the climatological normal. The number of 100°F and 110°F days this year, as well as the number of 85°F nights, remained above average. As of Sunday, Phoenix had experienced 37 consecutive days without the high temperature reaching 110°F, a streak that is projected to end this week.

Red=highest high Blue=lowest high low breaks ties	Daily High °F	Normal High °F	vs. Normal °F	Daily Low °F	Normal Low °F	vs. Normal °F
Mon 8-22	99	105	-6	77	83.3	-6.3
Tues 8-23	105	104.9	0.1	85	83.2	1.8
Weds 8-24	101	104.8	-3.8	84	83.1	0.9
Thurs 8-25	103	104.8	-1.8	84	83	1
Fri 8-26	106	104.7	1.3	87	82.9	4.1
Sat 8-27	106	104.6	1.4	86	82.8	3.2
Sun 8-28	104	104.5	-0.5	85	82.7	2.3



## HOT DAYS AND NIGHTS TRACKER

	Year to Date (2022)	Year to Date (2020)	Normal Year to Date
100°F days	90	105	87.7
110°F days	20	50	19.5
85°F nights	38	50	32.4

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, but one is now in effect for Tuesday, August 30 and Wednesday, August 31. If the warned period is confined to two days, the year-to-date total will be 12 warned days by the end of the upcoming week.

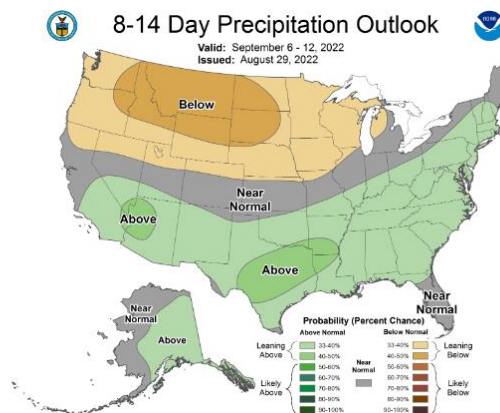
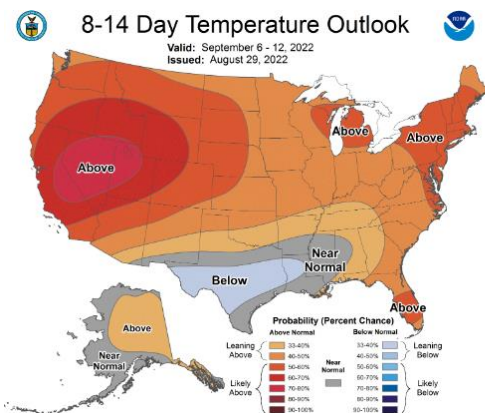
## 2. NATIONAL WEATHER SERVICE FORECAST

Above average temperatures and Moderate to High HeatRisk have returned to the forecast with a major shift in the regional weather pattern. Temperatures are expected to peak on Tuesday but remain high through the Labor Day weekend. Overnight lows will be particularly high and there is a reasonable chance that Tuesday night does not cool off below 90°F. Much of the western U.S. is forecast to be experiencing anomalous heat over the upcoming week.

Tue	Wed	Thu	Fri	Sat	Sun	Mon
<b>111</b>	<b>108</b>	<b>107</b>	<b>106</b>	<b>108</b>	<b>107</b>	<b>106</b>
<b>88</b>	<b>86</b>	<b>85</b>	<b>86</b>	<b>86</b>	<b>84</b>	

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 has the odds strongly favoring above-average temperatures, with a modest opportunity for precipitation activity. The normal daily high for the first full week of September is 103°F.



### 3. HEAT-HEALTH DATA

#### HEAT-RELATED MORTALITY AND MORBIDITY

The Maricopa County Department of Public Health is reporting 82 confirmed heat-associated deaths for 2022, an increase of 16 cases from the previous reporting period. As of their August 20 report, there are 265 additional cases under investigation, which is 3 cases lower than the week before. All MCDPH heat-health reports are available online:

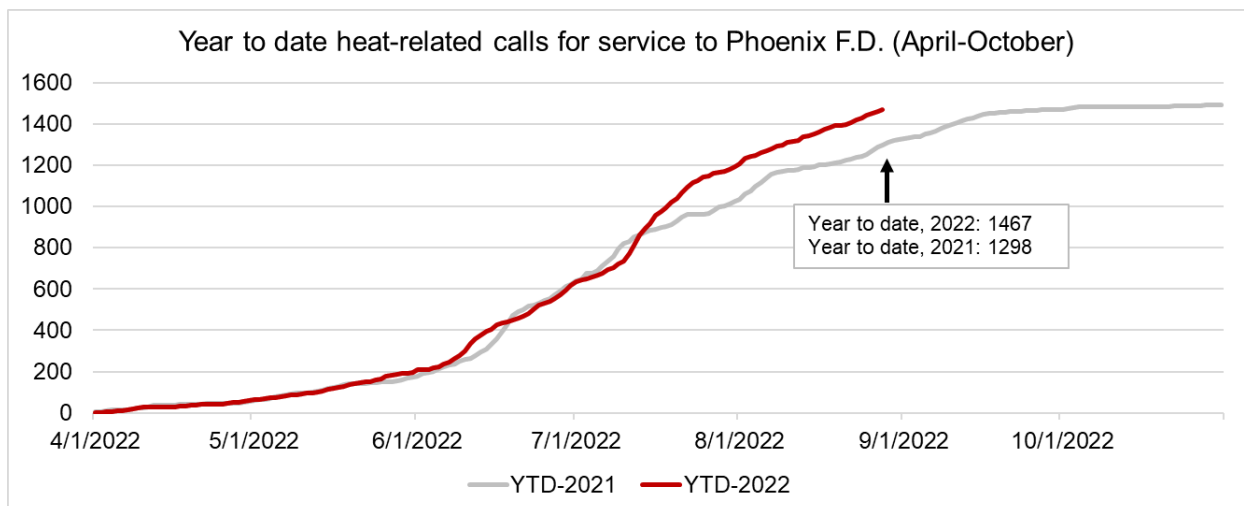
<https://www.maricopa.gov/1858/Heat-Surveillance>.

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

The Phoenix Fire Department responded to 70 calls for service identified by the dispatcher to be related to heat over the previous week. This was more than the number of calls as the week prior (55 calls, an increase of about 27%). Advanced life support systems were deployed for 26 of the 70 calls. In 2021, the same 7-day period had 75 calls for service related to heat, with somewhat higher temperatures (average high temperature of about 108°F in 2021 and 103°F in 2022).

The highest daily number of calls over the previous week occurred on Thursday, August 25 (high of 103°F), with 16 heat-related calls, which was more than the daily maximum number of calls last week (12 calls). June 19 had the most heat-related calls last year with 43, with a high temperature of 116°F. This year, to date, the highest number of heat-related calls occurred on July 13, with 52 calls and a high temperature of 113°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 13% **higher** than 2021, and the 2021 seasonal total of 1494 will likely be eclipsed in the upcoming week.

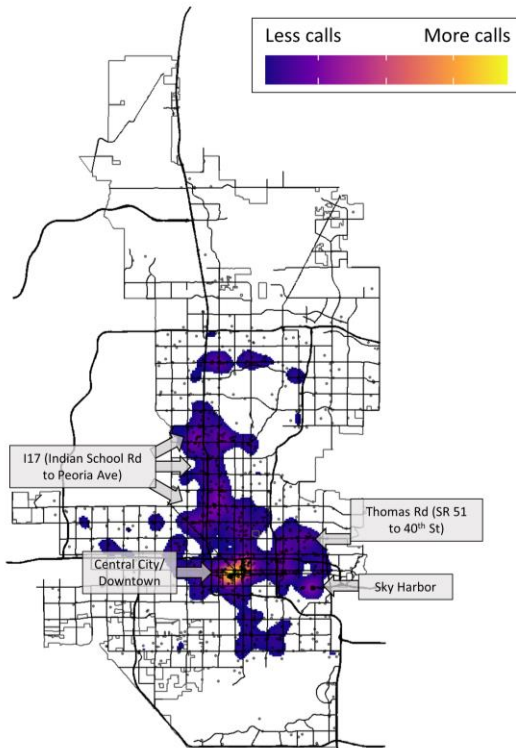


Spatially, since June 1, 2022 to date (through August 28), heat-related calls for service have continued to concentrate in a few areas: the Central City/Downtown area, Sky Harbor airport, and along the I-17 from Indian School Rd to Peoria Ave. Additionally, some more minor areas of concentration are present on Thomas Rd from State Route 51 to 40<sup>th</sup> St, around 24<sup>th</sup> St from Thomas Rd to Jefferson St, and near Central Ave between Camelback Rd and Thomas Rd.

Over the past week, calls were highly concentrated in the Central City/Downtown region, especially in the vicinity of the Human Services Campus. Additionally, a few hotspots occurred near the I-10 & Washington St, Indian School Rd & Grand Ave, Thomas Rd & 59<sup>th</sup> Ave, and Baseline Rd & 39<sup>th</sup> Ave.

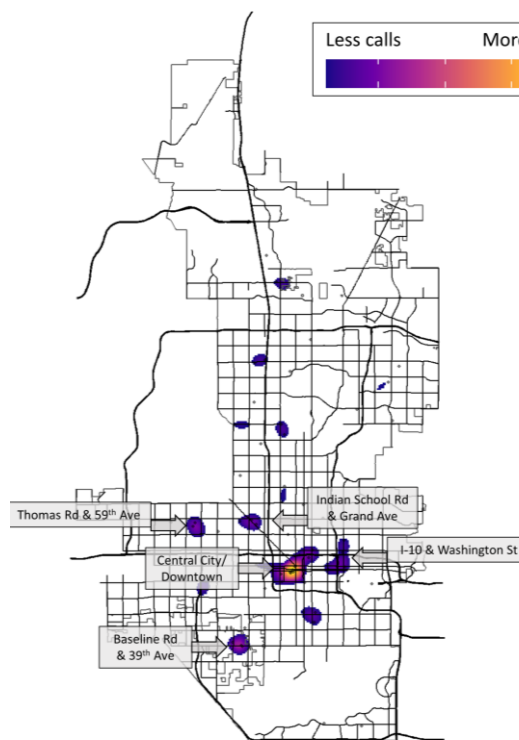
### June 1 – August 28

Map of Phoenix Fire Department calls for service related to heat June 1 – August 28, 2022  
 \*Note: Point locations are approximated based on partial addresses or cross streets.



### Last week (August 22 – August 28)

Map of Phoenix Fire Department calls for service related to heat August 22 – August 28, 2022  
 \*Note: Point locations are approximated based on partial addresses or cross streets.



A dynamic web map of call density from June 1 to August 28, 2022 is also available online:  
<https://asu.maps.arcgis.com/apps/mapviewer/index.html?webmap=e8e87b3c56f4428fb6d74716d5066ba0>

## 4. COMMUNITY SEARCH DATA

### PHOENIX 3-1-1

There were 4 inquires made through Phoenix 3-1-1 for August 22–26 that were related to summer heat, the same number as the prior week. There was one call for a landlord tenant concern, one call for a pool permit, and two heat-related media requests.

### ARIZONA 2-1-1

There were 305 requests for electrical utility assistance fielded by Arizona 2-1-1 over the previous week in Maricopa County, which was a slight increase from the previous week.

### 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 later this summer. Publicly available Google Trends data for Arizona showed that searches for heat exhaustion and swimming pool trended slightly upward over the psat week, while searches for cooling centers, heat stroke, air conditioning, and heat warnings all trended downward or remained low.

## 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 (25 programs)
	Partially operational (1 programs)
	Planning and preparation (5 programs)
	Ended for summer 2022 (0 programs)

City of Phoenix Heat Response Programs and Services – Summer 2022				
Initiative	Target population	Lead depts.	Status	Updates
FOCUS AREA I. 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. Customized cooling center maps are being prepared for fire stations in highly impacted areas.
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		Seventeenth report distributed August 29.
<b>FOCUS AREA 2. Public engagement, communications, and outreach</b>				
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		67 outreach shifts have been completed, with 56 focusing on street outreach and 11 at City trailheads. More than 2800 contacts have been made through this program. Supplies distributed include water, hats, sunscreen, cooling center maps, heat safety cards, cooling towels, misters, and umbrellas.
2.3 Cool Callers Volunteer Program	LIVING ALONE, LIMITED COOLING	VOL, OHRM		Call activity will be elevated this week in response to the Excessive Heat Warning. 6 volunteers are engaging 15 registered participants.
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		Order fulfillment is on hold while supplies are being restocked with heat relief kits from Maricopa County. 50 organizations have been allocated supplies with more than 38,000 individual items committed.
<b>FOCUS AREA 3. Publicly accessible cool space and drinking water</b>				
3.1 Supporting the regional Heat Relief Network	ALL	OHRM, LIBRARY, PARKS, HSD		55 City facilities are currently participating as cooling centers or hydration stations. One library location has been removed from the network for facility repairs. 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 larger order for summer 2023 is being prepared and staff will be exploring custom bottle designs to promote heat safety and City services.
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. An upgrade to the cooling system at the new tent was made in late July.
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 are reviewing public health and safety guidelines for proposed trailers with the health department.
<b>FOCUS AREA 4. Supporting cool and safe home environments</b>				
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 has been disseminated through City platforms and channels. OHRM and 311 staff reviewed existing rules at the start of summer 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; 76 new shade structures installed thus far in calendar year 2022.
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		Pools have transitioned to weekend-only operation for the month of August, as scheduled.
5.6 SunBlock Umbrella Distribution	ALL	A&C		Sun umbrellas featuring 14 designs from local artists have been delivered to Council offices and are beginning to be distributed 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

Since January 2022, the City of Phoenix has assisted **6,623 households** with financial assistance toward current and outstanding electric, water and gas bills. Priority populations include seniors, disabled and/or medically involved persons, families with young children, and renters experiencing an imminent eviction crisis. **Over \$7,269,000 in energy assistance** has been distributed to Phoenix residents through the Emergency Rental Assistance (ERA) and Low Income Home Energy Assistance (LIHEAP) programs.

**Utility Assistance Update**



## 7. REGIONAL AND NATIONAL HIGHLIGHT



Two Arizona researchers have been recognized with an award from the American Planning Association for their recent report titled “Planning for Urban Heat Resilience.” Ladd Keith and Sara Meerow published the report in April 2022 with support from the National Oceanic and Atmospheric Administration, and it is [freely available online](#). As noted on the American Planning Association website the report “ provides holistic guidance to help practitioners increase urban heat resilience equitably in the communities they serve.” In reflecting on the award to ASU News, Dr. Meerow acknowledged heat-focused efforts across Arizona: “This award shows that planners in the state recognize the importance of planning for urban heat resilience.”

## 8. HEAT SAFETY – DID YOU KNOW?

The Camelback Mountain and Piestewa Peak summit trails will be closed from 11:00am to 5:00pm on Tuesday and Wednesday as a result of the Excessive Heat Warning issued by the National Weather Service. An ABC15 news segment on August 29 pointed to the trail closures as a possible contributing factor to a decreased number of mountain rescues on city hiking trails in 2022 compared to 2021. Extended parking hours (until 9:00pm) are in effect at these locations through the month of September to encourage recreation during cooler times of day.



## 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).