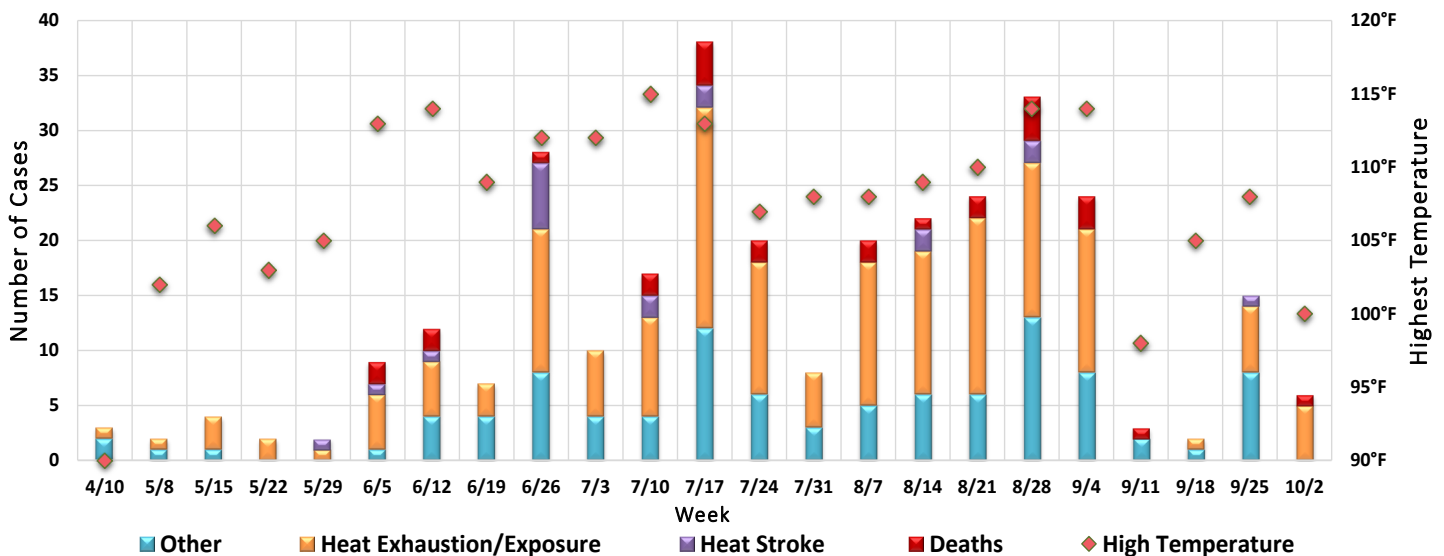


HEAT-RELATED ILLNESS SURVEILLANCE 2022 SUMMARY



The Imperial County Public Health Department, in collaboration with local hospitals and Imperial County Coroner’s office, monitors heat-related illnesses and deaths due to environmental heat exposure. Exposure to high temperatures can cause serious health problems including heat cramps, heat exhaustion, heat stroke and death. Children, the elderly, and people with some health conditions are at increased risk. For more information, go to the U.S. Centers for Disease Control website at: [Extreme Heat | Natural Disasters and Severe Weather | CDC](#).

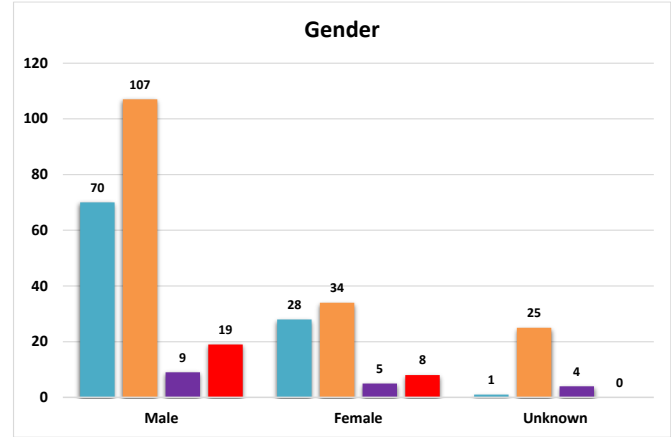
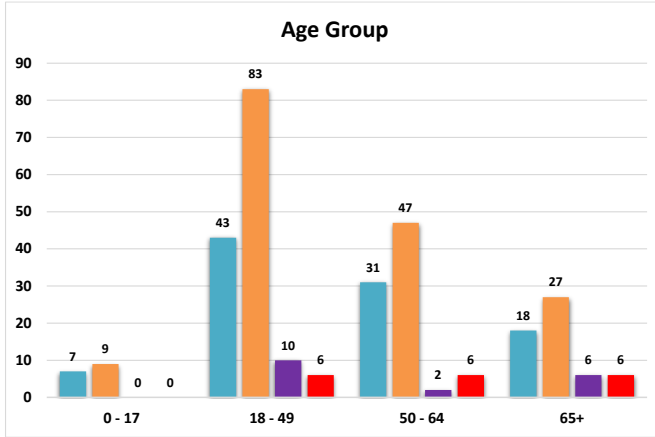
This report includes information regarding heat-related illnesses and deaths identified in Imperial County during the surveillance period. A total of 283 heat-related illnesses were reported by local hospitals. This is a 15% increase from 2021 and a 12.7% increase from 2019. (The report was not published in 2020 due to the COVID-19 pandemic). Local hospitals and the Coroner’s office reported a total of 27 confirmed or probable deaths. This is a 17.4% increase from 2021, and a 440% increase from 2019. The median age of cases is 46 years (range: 1 year to 89 years). Charts on page 2 provide more demographic characteristics for persons with heat-related illness. Of the heat-related illnesses and deaths with known hospitalization status (n=270), 80.7% were seen in the emergency department, and 19.3% were admitted. During the surveillance period, seven Excessive Heat Warnings issued by the National Weather Service.



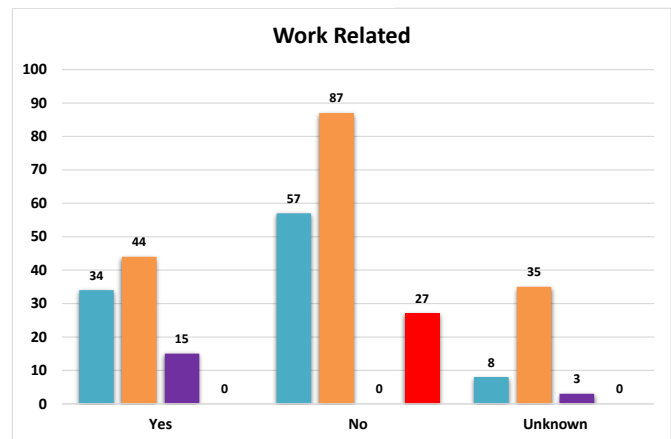
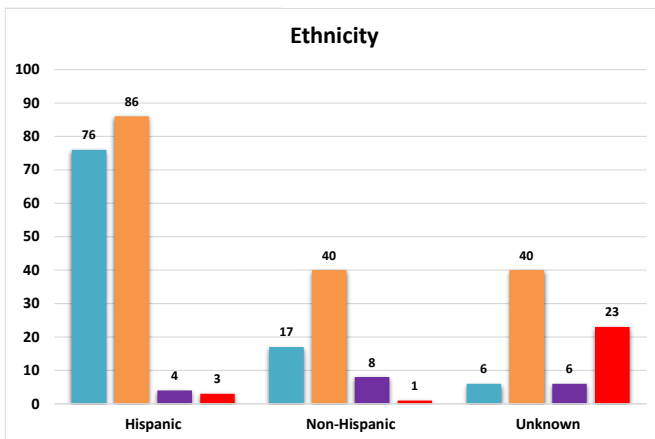
Heat-Related Morbidity & Mortality	2022	2021	2019	2018	2017	2016	2015	2014	2013	2012	2011
Heat Stroke	18	17	21	25	34	8	15	11	29	27	19
Heat Exhaustion / Exposure	166	140	98	191	91	55	54	43	68	79	25
Other illnesses (i.e. heat fatigue, dehydration)	99	89	132	150	110	93	50	34	60	41	23
Deaths	27	23	5	25	8	3	10	2	3	8	2
Totals	310	269	256	391	243	159	129	90	160	155	69

* Note: Data in this report are point-in-time counts during the seasonal surveillance periods and may not reflect the true number of heat-related illnesses and deaths that occurred throughout the year. Death counts include both confirmed and probable deaths pending confirmation by the County Coroner.

HEAT-RELATED ILLNESS SURVEILLANCE 2022 SUMMARY

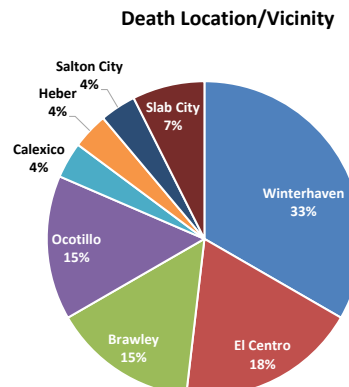
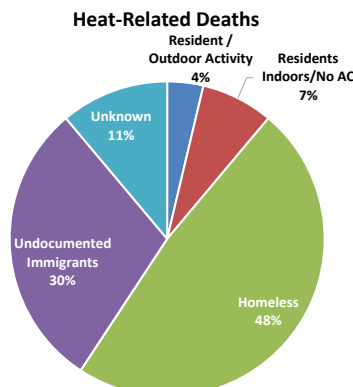


■ Other ■ Heat Exhaustion / Heat Exposure ■ Heat Stroke ■ Deaths



Heat-Related Deaths

Between April 10 and October 8, 2022, the Imperial County Coroner’s Office and local hospitals identified 27 deaths due to environmental heat exposure. Seven have been confirmed as deaths due to hyperthermia, and 20 are probable deaths due to hyperthermia and other heat-related factors. Nineteen were male and eight were female. Among the 18 cases for whom age information is available, six were 18-49 years old, six were 50-64 years old, and six were 65 years or older. Most deaths were in individuals reported as being homeless. No heat-related deaths were reported in agricultural workers. Additionally, 26% (n=7) of the deaths occurred in the open desert near Ocotillo, Winterhaven, and Salton City.





HEAT-RELATED ILLNESS SURVEILLANCE 2022 SUMMARY

Cool Centers

Brawley

- Brawley Public Library

Calexico

- Camarena Public Library

Calipatria

- Imperial County Calipatria Library

El Centro

- Imperial Valley Mall Food Court

Heber

- Heber Community Center

Niland

- Niland Fire Station

Salton City

- Salton City Library

Hydration Stations

Holtville

- Holtville Library

Ocotillo

- Ocotillo County Fire Station
- Imperial Valley Desert Museum

Palo Verde

- Palo Verde County Fire Station

Salton City

- Salton City Fire Station

Seeley

- Seeley County Fire Station

Westmorland

- Senior Citizen Building

Winterhaven

- Winterhaven County Fire Station

For address, hours of operation, contact person, and phone numbers, please visit our web site at www.icphd.org

Excessive Heat Warnings

The National Oceanic and Atmospheric Administration issues extreme heat advisories to indicate when excessive, extended heat will occur. The advisories are based mainly on predicted heat index values.

Excessive Heat Warning is issued when the heat index will be high enough to be life threatening in the next 24 hours. This warning indicates that the excessive heat is imminent or has a very high probability of occurring.

Excessive Heat Watch is issued when excessive heat could occur within the next 24 to 72 hours, but the timing is uncertain.

Excessive Heat Outlook is issued when the potential exists for an extended period of excessive heat (heat index 105°-110°F) over the next 3-7 days. This is a good time to check on supplies, such as extra water coolers, and refresh worker training.

Excessive Heat Advisory is similar to an Excessive Heat Warning, but less serious and is issued when the heat index could be uncomfortable or inconvenient, but is not life threatening if precautions are taken.

Excessive Heat Warnings 2022	
Start	End
6/9/2022	6/12/2022
6/16/2022	6/16/2022
7/11/2022	7/11/2022
7/15/2022	7/17/2022
7/21/2022	7/22/2022
8/30/2022	9/7/2022
9/24/2022	9/27/2022

Heat Index Chart

Temperature (°F)	Relative Humidity (%)																				
	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
140	125																				
135	120	128																			
130	117	122	131																		
125	111	116	123	131	141																
120	107	111	116	123	130	139	148														
115	103	107	111	115	120	127	135	143	151												
110	99	102	105	108	112	117	123	130	137	143	150										
105	95	97	100	102	105	109	113	118	123	129	135	142	149								
100	91	93	95	97	99	101	104	107	110	115	120	125	132	138	144						
95	87	88	90	91	93	94	96	98	101	104	107	110	114	119	124	130	136				
90	83	84	85	86	87	88	90	91	93	95	96	98	100	102	106	109	113	117	122		
85	78	79	80	81	82	83	84	85	86	87	88	89	90	91	93	95	97	99	102	105	108
80	73	74	75	76	77	77	78	79	79	80	81	81	82	83	85	86	86	87	88	89	91
75	69	69	70	71	72	72	73	73	74	74	75	75	76	76	77	77	78	78	79	79	80
70	64	64	65	65	66	66	67	67	68	68	69	69	70	70	70	71	71	71	71	71	72

Heat Index: 130+°F	Heat Effect: Heatstroke/sunstroke is highly likely with continued exposure Recommendations: Avoid strenuous outdoor activity; stay indoors in an air-conditioned facility; stay well hydrated; check on your family, friends, and neighbors
Heat Index: 105-129°F	Heat Effect: Sunstroke, heat exhaustion and heat cramps are likely. Heat stroke is possible with prolonged exposure and/or physical activity Recommendations: Avoid strenuous outdoor activity; stay indoors in an air-conditioned facility; stay well hydrated
Heat Index: 90-104°F	Heat Effect: Sunstroke, heat exhaustion and heat cramps are possible with prolonged exposure and/or physical activity Recommendations: Limit strenuous outdoor activity; limit your time outdoors; stay well hydrated
Heat Index: 80-89°F	Heat Effect: Fatigue is possible with prolonged exposure and/or physical activity Recommendations: Limit your time outdoors; stay well hydrated



Heat index, sometimes referred to as the apparent temperature and given in degrees Fahrenheit, is a measure of how hot it really feels when relative humidity is factored with the actual air temperature.