

Climate Summary Report

Usery Mountain Park Weather Station

Mesa, Arizona

Period of Record: Calendar Years 1996-2024

Date of Station Installation: 02/24/1994

Weather Sensor Installation: 02/24/1994



State: Arizona

County: Maricopa

Latitude: 33° 28' 54.1" (33.4817)

Longitude: 111°36' 57.4" (-111.6159)

TRS: T2N-R7E-Section 27

Location: ¼ mile WNW of the Crismon Rd and Thomas Rd Alignment

Time Zone: MST – all year

Data Repeater: Direct

Elevation: 2,065 ft. msl

Owner: Flood Control District of Maricopa County

NWS CWA/Zone #: Phoenix, 24

Archived: Yes, from date of sensor installation

Site Description: Flat ground, Soil type –dirt/shrubs

Obstructions: No obstructions

* For information on annual and monthly rainfall totals at Usery Mountain Park refer to http://alert.fcd.maricopa.gov/alert/Rain/FOPR/80700_FOPR.xlsx.

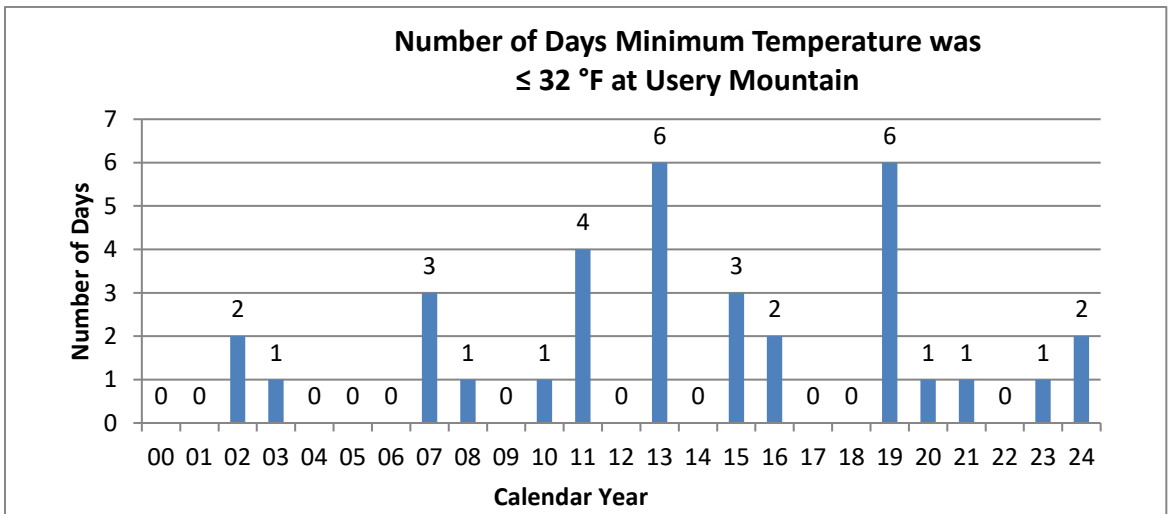
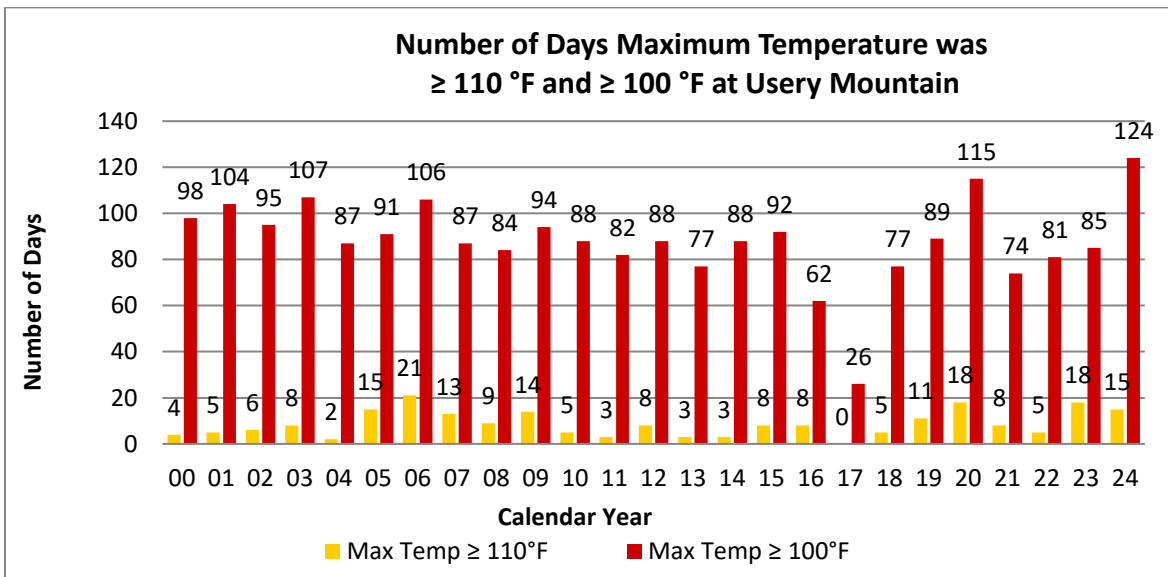
Usery Mountain Park Weather Station 1996-2024

All-Time Records*

Temperature	High	118°F	6/19/2016
	Low	20°F	2/3/2011
Wind	Peak Wind Gust	58 MPH	5/1/2023
Dewpoint	Maximum Dewpoint	88°F	8/29/2014

*Most recent date of occurrence observed.

Temperature Statistics



Usery Mountain Park Weather Station Annual Statistics

Year	Maximum Temp		Minimum Temp		Mean Temp	Maximum Dewpoint		Peak Wind	
	°F	Date*	°F	Date*	°F	°F	Date*	MPH	Date*
2024	114	07/08	31	01/09	75.6	75	08/18	37	3/14
2023	113	77/26	30	1/24	73.7	77	8/27	58	5/1
2022	112	7/11	33	12/14	73.3	76	9/22	55	7/22
2021	114	6/18	32	1/25	74.0	78	8/10	49	12/14
2020	114	7/30	32	2/4	75.7	73	8/29	28	8/3
2019	112	8/21	29	1/2	73.0	76	8/1	37	7/30
2018	112	7/25	35	12/29	74.5	73	10/3	32	7/9
2017	108	6/20	43	1/25	76.1	74	7/29	30	8/3
2016	118	6/19	31	2/2	76.0	78	8/2	26	10/9
2015	113	8/15	31	1/2	74.4	75	9/21	33	6/27
2014	112	7/24	33	12/31	75.2	88	8/29	34	9/27
2013	112	6/29	26	1/15	72.9	76	8/31	31	5/3
2012	112	8/13	36	12/28	75.1	76	9/8	29	6/27
2011	112	7/2	20	2/3	72.6	77	8/18	33	2/19
2010	110	8/24	30	12/31	72.1	82	8/22	31	1/21
2009	112	8/28	35	12/25	74.5	-	-	31	12/7
2008	112	8/1	31	12/27	73.6	79	12/1	36	1/27
2007	113	7/4	26	1/14	74.8	78	7/24	32	1/16
2006	118	7/21	33	12/21	75.5	80	7/27	43	6/18
2005	115	6/21	35	12/17	74.3	79	8/10	31	8/19
2004	112	7/12	33	11/29	73.2	75	10/21	32	8/16
2003	113	8/10	31	12/28	74.4	75	9/25	37	7/21
2002	111	6/25	29	1/31	73.5	74	7/24	36	7/14
2001	114	7/2	33	12/13	73.6	75	7/3	34	4/5
2000	111	8/5	35	1/3	74.2	75	10/24	36	7/30

*Latest date of occurrence observed.

Usery Mountain Park Weather Station Monthly Statistics

Month	Maximum Temp		Mean Temp ¹	Minimum Temp		Peak Wind		Avg Wind (mph) ²
	°F	Date*	°F	°F	Date*	MPH	Date*	MPH
January	84	1/15/2000	56.1	26	1/27/2013	36	1/17/2024	3.2
February	87	2/17/2016	58.5	20	2/3/2011	37	2/2/2023	2.9
March	100	3/16/2007	64.2	33	3/2/2023	37	3/14/2024	2.9
April	102	4/29/2020	71.3	36	4/4/1999	51	4/5/2023	3.5
May	109	5/29/2020	80.7	45	5/7/1995	58	5/1/2023	3.6
June	118	6/19/2016	90.5	51	6/23/1997	48	6/27/2023	3.6
July	120	7/28/1995	93.0	62	7/14/2008	55	7/22/2022	3.5
August	114	8/28/1998	91.4	66	8/31/2000	44	8/20/2022	3.3
September	113	9/5/2024	86.9	59	9/21/2004	40	9/21/2023	3.1
October	109	10/1/2024	76.0	40	10/29/2009	55	10/18/2023	2.8
November	97	11/3/2009	64.8	30	11/20/1994	39	11/30/2022	2.8
December	84	12/1/2021	55.7	30	12/31/2010	49	12/15/2023	2.7

¹The daily mean temperature is calculated by averaging each day's 15-minute values (96 if all are received). The monthly mean temperature is calculated by averaging all temperatures in that month (96 * # of days). The mean temperature for each month is calculated by averaging the monthly mean temperatures from all years.

²Average daily wind speed is calculated by dividing the number of hours in a day into the recorded miles of wind run. Monthly average wind speed is calculated by averaging all daily average wind speeds in that month. The average wind speed for each month is calculated by averaging the monthly average wind speeds from all years.

*Most recent date of occurrence observed.

Equipment operates in the NWS ALERT Format. Transmission to the Flood Control District of Maricopa County via VHF radio.

Sensor	ID #	Data Begins	Type	Manufacturer	Model	Height AGL (ft)	Units	Frequency of Data
Rain	80700	02/24/94	Tipping Bucket	Hydrolynx	5050P	11.1	mm	Variable
Temperature	80701	02/24/94	Probe, Radiation Shield	Vaisala, Hydrolynx	HMP155, 4550	11.9	deg F/C	15 minutes
Relative Humidity	80702	02/24/94	Probe, Radiation Shield	Vaisala, Hydrolynx	HMP155, 4550	11.9	%	15 minutes
Dewpoint (calculated)	80716	07/08/94	---	---	---	---	deg F	15 minutes
Wind Speed	80704	02/24/94	3-cup	Hydrolynx	5050WS	11.6	mph	15 minutes
Wind Direction	80705	05/01/01	Pointer	Hydrolynx	5050WD	11.7	deg	15 minutes
Peak Wind	80706	02/24/94	---	---	---	---	mph	15 minutes
Solar Radiation	80711	02/24/94	Silicon photovoltaic cell	Hydrolynx	4015	11.7	watt/sqm	30 minutes
Barometric Pressure	80703	02/24/94	Solid state	Hydrolynx	1522	9.9	mb, inHg	30 minutes

