

Climate Summary Report

South Mountain Park Weather Station

Phoenix, Arizona

Period of Record: Calendar Years 1996-2024

Date of Station Installation: 10/01/1987

Weather Sensors Installation: 12/15/1987



State: Arizona

County: Maricopa

Latitude: 33° 20' 39.8" (33.3444)

Longitude: 112° 01' 58.9" (-112.0330)

TRS: T1S-R3E-Section 15

Location: Alignments of Elliot Road and 24th Street

Time Zone: MST – all year

Data Repeater: Direct

Elevation: 2,355 ft. msl

Owner: Flood Control District of Maricopa County

NWS CWA/Zone #: Phoenix, 23

Archived: Yes, from date of sensor installation

Site Description: Sloped on a ridge, Soil type –rocks/dirt/shrubs

Obstructions: No obstructions

* For information on annual and monthly rainfall totals at South Mountain Park refer to http://alert.fcd.maricopa.gov/alert/Rain/FOPR/68500_FOPR.xlsx.

Flood Control District of Maricopa County

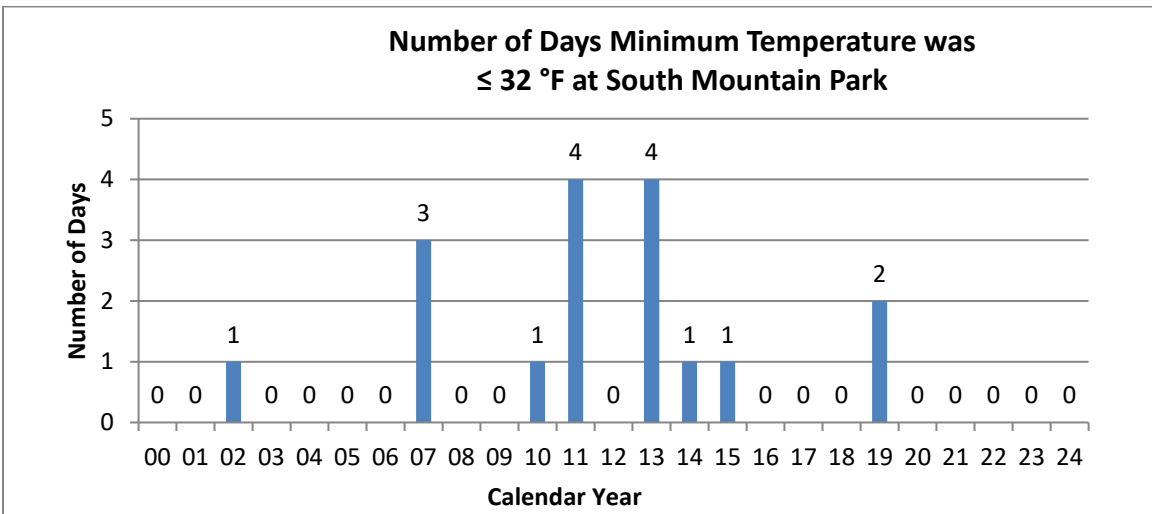
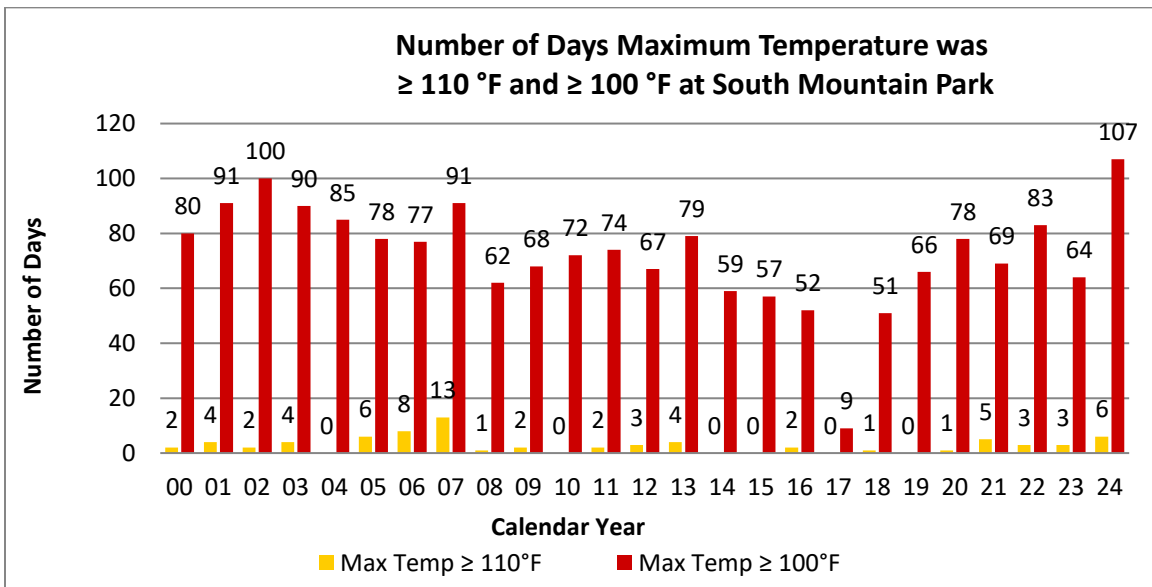
South Mountain Park Weather Station 1996-2024

All-Time Records*

Temperature	High	115°F	7/5/2007
	Low	24°F	2/3/2011
Wind	Peak Wind Gust	46 MPH	10/28/2024
Dewpoint	Maximum Dewpoint	84°F	8/8/2005

*Most recent date of occurrence observed.

Temperature Statistics



South 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	113	7/08	36	01/09	74.9	68	8/18	46	10/29
2023	110	7/25	37	3/2	73.4	65	8/7	41	8/31
2022	111	7/11	39	12/14	75.2	77	9/21	34	10/3
2021	114	6/18	34	1/26	75.3	74	8/15	38	9/1
2020	111	7/30	33	2/4	74.0	74	7/24	34	7/9
2019	109	8/5	30	1/2	71.7	79	9/23	36	11/29
2018	110	7/24	36	12/31	73.4	74	7/9	33	8/8
2017	107	6/20	40	1/27	72.9	77	7/25	34	3/30
2016	111	6/20	33	2/2	73.6	75	8/5	38	7/18
2015	108	8/15	30	1/1	73.0	78	8/25	36	8/31
2014	109	7/24	31	12/31	74.1	75	9/8	46	9/27
2013	114	6/29	28	1/14	72.7	75	8/30	31	3/8
2012	110	8/13	38	12/31	74.0	77	7/29	34	12/19
2011	114	7/2	24	2/3	72.2	74	7/31	33	11/5
2010	109	7/1	31	12/31	72.0	75	8/21	32	5/2
2009	110	7/18	38	12/25	73.4	73	8/13	41	12/7
2008	110	6/20	34	12/27	72.8	76	7/11	36	4/9
2007	115	7/5	25	1/14	75.5	75	7/24	36	3/27
2006	115	7/21	34	3/11	73.3	76	7/25	36	7/25
2005	113	7/17	37	11/28	73.4	84	8/8	37	7/23
2004	109	7/12	37	12/24	73.2	78	9/19	39	10/21
2003	114	7/16	33	12/28	74.7	80	8/26	28	7/15
2002	111	6/26	31	1/31	74.3	79	9/8	40	7/14
2001	115	7/2	35	12/16	73.5	81	7/30	31	4/21
2000	110	8/5	36	3/7	72.8	70	8/28	35	6/28

*Latest date of occurrence observed.

South Mountain Park Weather Station Monthly Statistics

Month	Maximum Temp		Mean Temp ¹	Minimum Temp		Peak Wind		Avg Wind (mph) ²
	°F	Date(s) ³	°F	°F	Date(s) ³	MPH	°F	Date(s) ³
January	84	1/31/2003	55.1	25	1/14/2007	37	1/31/2016	2.4
February	83	2/8/1996	57.5	24	2/3/2011	40	2/3/1996	2.2
March	96	3/17/2007	63.6	33	3/29/1998	38	3/3/2021	2.3
April	100	4/22/2012	71.1	33	4/2/1999	36	4/30/2016	2.8
May	119	5/7/1993	79.6	43	5/7/1995	41	5/5/1994	2.9
June	114	6/29/2013	89.3	53	6/4/1999	42	6/24/2024	2.9
July	118	7/28/1995	91.6	64	7/15/1999	44	7/21/2024	2.8
August	113	8/5/1994	90.0	62	8/28/2008	41	8/8/2024	2.1
September	109	9/5/2024	85.7	54	9/9/1991	46	9/27/2014	2.3
October	105	10/1/2024	75.5	42	10/27/2020	46	10/29/2024	2.0
November	90	11/6/2007	63.6	35	11/27/1994	36	11/3/2024	4.7
December	87	12/1/2008	54.5	30	12/23/1998	41	12/7/2009	4.7

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 observe

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	68500	10/01/87	Tipping Bucket	Hydrolynx	5050P	9.9	mm	Variable
Temperature	68501	12/15/87	Transducer, Radiation Shield	Hydrolynx	2048, 4550	9.1	deg F/C	15 minutes
Relative Humidity	68502	12/15/87	Polymer film, Radiation Shield	Hydrolynx	2048, 4550	9.1	%	15 minutes
Dewpoint (calculated)	68516	07/08/99	---	---	---	---	deg F	15 minutes
Wind Speed	68504	12/15/87	3-cup	Hydrolynx	5050WS	10.1	mph	15 minutes
Wind Direction	68505	05/01/01	Pointer	Hydrolynx	5050WD	10.6	deg	15 minutes
Peak Wind	68506	07/21/93	---	---	---	---	mph	15 minutes
Solar Radiation	68511	07/21/93	Silicon photovoltaic cell	Hydrolynx	4015	10.4	watt/sqm	30 minutes
Barometric Pressure	68503	07/01/93	Solid state	Hydrolynx	1522	7.4	mb, inHg	30 minutes

