

Climate Summary Report

Thompson Peak Weather Station

Scottsdale, Arizona

Period of Record: Calendar Years 1996-2024

Date of Station Installation: 07/27/1989

Weather Sensors Installation: 12/19/1995



State: Arizona

County: Maricopa

Latitude: 33° 38' 32.7" (33.64242)

Longitude: 111°48' 33.2" (-111.80921)

TRS: T4N-R5E-Section 35

Location: 120th Street and Bell Road alignments

Time Zone: MST – all year

Data Repeater: Direct

Elevation: 3,485 ft. msl

Owner: Flood Control District of Maricopa County

NWS CWA/Zone #: Phoenix, 23

Archived: Yes, from date of sensor installation

Site Description: flat ground, Soil type – dirt, gravel

Obstructions: None

* For information on annual and monthly rainfall totals at Thompson Peak refer to http://alert.fcd.maricopa.gov/alert/Rain/FOPR/1900_FOPR.xlsx

Flood Control District of Maricopa County

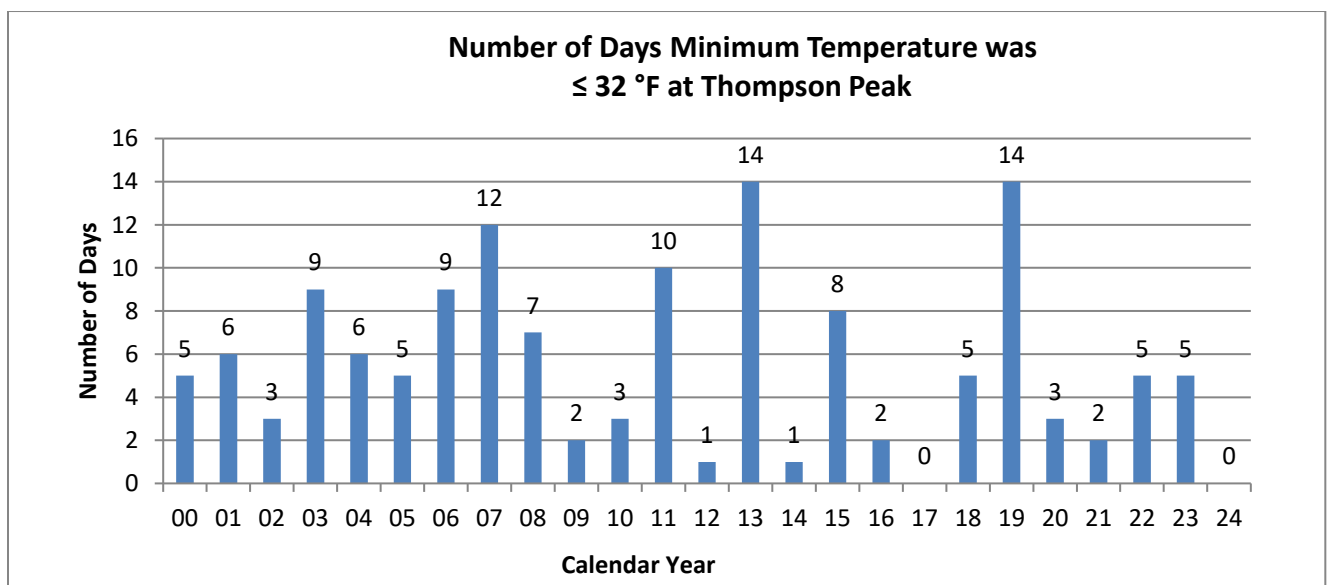
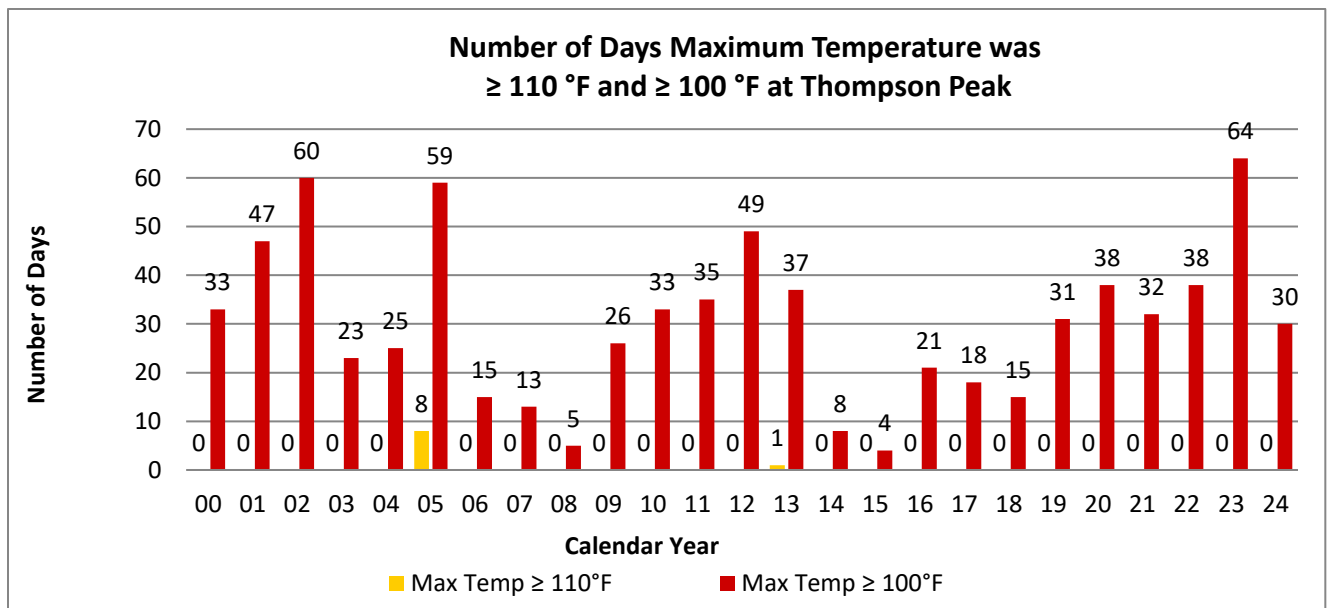
Thompson Peak Weather Station 1996-2024

All-Time Records*

Temperature	High	113°F	7/15/1998
	Low	17°F	2/3/2011
Dewpoint	Maximum Dewpoint	85°F	8/9/2005

*Most recent date of occurrence observed.

Temperature Statistics



Thompson Peak Weather Station Annual Statistics

Year	Maximum Temp		Minimum Temp		Mean Temp	Maximum Dewpoint	
	°F	Date*	°F	Date*	°F	°F	Date(s)
2024	106	7/5	34	1/12	71	71	8/18
2023	109	7/22	29	2/15	72	74	8/21
2022	107	7/11	31	2/24	70	74	7/30
2021	109	6/18	31	1/26	71	76	8/11
2020	107	7/30	25	2/4	70	68	8/29
2019	106	8/5	25	1/2	67	70	9/23
2018	106	7/24	29	12/29	68	68	8/07
2017	109	6/20	34	12/21	71	70	7/24
2016	108	6/19	29	2/2	69.3	74	8/2
2015	105	6/15	24	1/1	66.3	69	7/6
2014	106	7/24	27	12/31	69.0	72	9/8
2013	110	6/29	23	1/15	68.3	73	7/26
2012	109	8/12	31	12/19	71.4	77	8/22
2011	107	8/26	17	2/3	67.8	75	7/25
2010	106	7/15	25	12/31	69.2	79	8/21
2009	105	8/28	28	2/10	70.6	84	4/29
2008	103	6/20	26	1/17	65.7	69	8/28
2007	103	8/12	20	1/14	66.6	74	9/22
2006	107	7/21	27	11/30	66.8	71	7/27
2005	110	8/22	26	2/5	69.7	85	8/9
2004	104	8/8	30	12/24	66.8	71	7/14
2003	106	7/16	26	12/28	67.8	77	11/13
2002	107	7/11	27	1/31	69.6	N/D	N/D
2001	109	7/2	31	2/8	69.0	N/D	N/D
2000	105	8/5	29	3/6	68.5	N/D	N/D
1999	106	7/5	29	2/11	69	N/D	N/D
1998	113	7/15	23	12/6	73	N/D	N/D
1997	104	7/15	23	12/25	66	N/D	N/D
1996	107	7/31	25	12/18	68	N/D	N/D

*Latest date of occurrence observed.

Thompson Peak Weather Station Monthly Statistics

Month	Maximum Temp		Mean Temp ¹	Minimum Temp	
	°F	Date*		°F	Date(s)*
January	81	1/29/1997	51.7	20	1/14/2007
February	82	2/23/2009	52.6	17	2/3/2011
March	89	3/16/2007	59.4	29	3/11/2006
April	100	4/30/2023	65.6	29	4/2/1998
May	103	5/28/2003	75.0	40	5/23/2008
June	110	6/29/2013	85.0	50	6/4/1999
July	113	7/15/1998	86.7	59	7/10/2008
August	110	8/28/1998	85.4	57	8/14/2003
September	106	9/9/2023	81.0	48	9/11/1996
October	102	10/1/2024	70.4	35	10/26/1996
November	89	11/5/2020	59.7	27	11/30/2006
December	81	12/1/2021	51.1	23	12/25/1997

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.

Detailed Sensor Data

Sensor	*ID #	Data Begins	Type	Manufacturer	Model	Height AGL (ft)	Units	Frequency of Data
Rain	2500	Since 07/07/92 07/27/89-07/07/92	Tipping Bucket	Hydrolynx	5050P	15.2	mm	Variable
Temperature	2501	12/19/95	Transducer, Radiation Shield	Hydrolynx	2048, 4550	14.2	deg F/C	15 minutes
Relative Humidity	2502	12/22/95	Polymer film, Radiation Shield	Hydrolynx	2048, 4550	14.2	%	15 minutes
Dewpoint (calculated)	2516	01/11/03	---	---	---	---	deg F	15 minutes

*Sensor ID updated (split from repeater) May 2025. Legacy ID#s for reference are 1900, 1901, 1902, 1916.

