

Climate Summary Report

Lake Pleasant North Weather Station

Peoria, Arizona

Period of Record: Calendar Years 2000-2024

Date of Station Installation: 04/24/2000

Weather Sensor Installation: 04/24/2001



State: Arizona

County: Yavapai

Latitude: 33° 54' 16.8" (33.9047)

Longitude: 112° 16' 15.0" (-112.2708)

TRS: T7N-R1E-Section 33

Location: Deer Island on north end of Lake Pleasant

Time Zone: MST – all year

Data Repeater: Towers Mountain

Elevation: 1,755 ft. msl

Owner: Flood Control District of Maricopa County

NWS CWA/Zone #: Phoenix, 24

Archived: Yes, from date of sensor installation

Site Description: Sloped near top of ridge, Soil type – rock/small shrub

Obstructions: No Obstructions

* For information on annual and monthly rainfall totals at Lake Pleasant North refer to http://alert.fcd.maricopa.gov/alert/Rain/FOPR/15300_FOPR.xlsx.

Flood Control District of Maricopa County

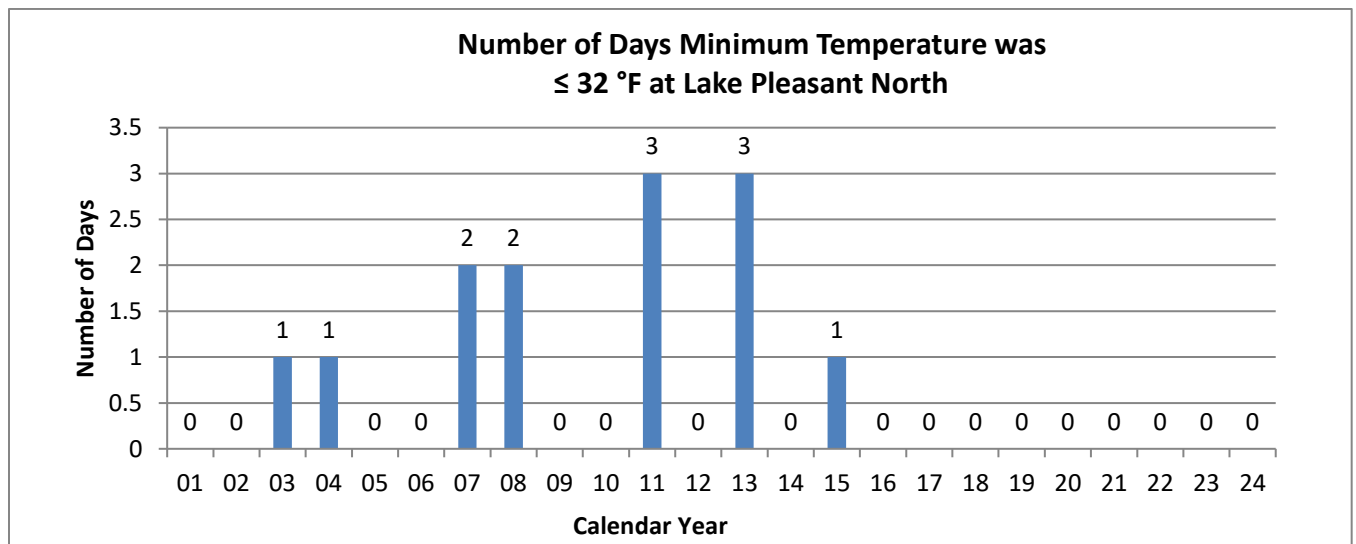
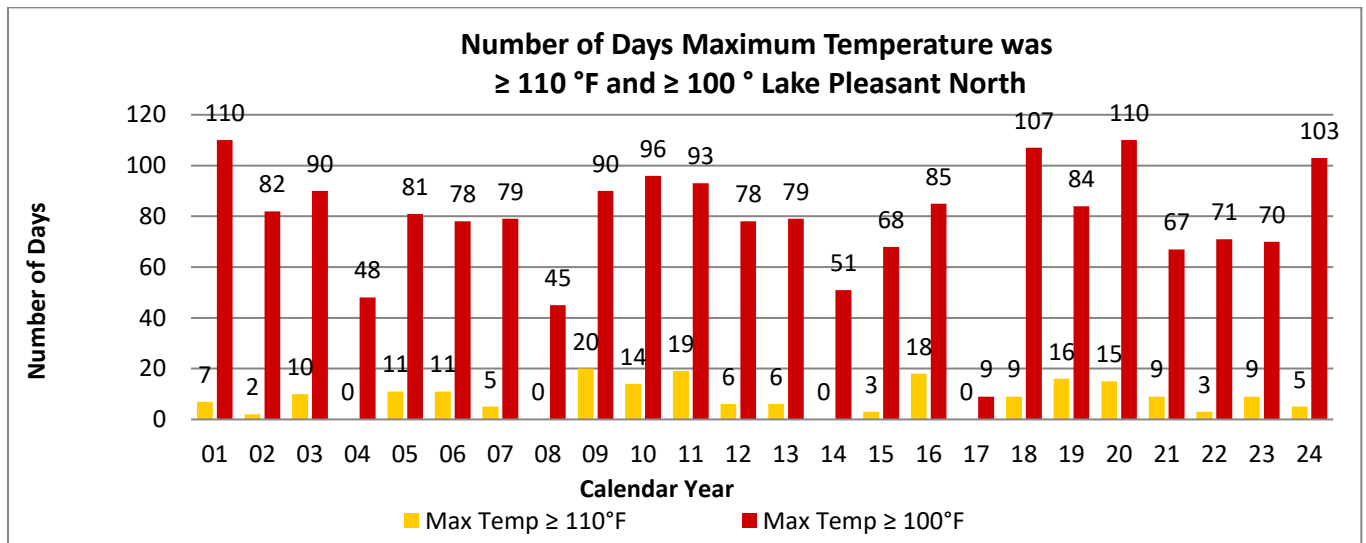
Lake Pleasant North Weather Station 2000-2024

All-Time Records*

Temperature	High	119°F	6/19/2016
	Low	30°F	1/14/2013
Wind	Peak Wind Gust	68 MPH	8/25/2014
Dewpoint	Maximum Dewpoint	88°F	7/23/2021

*Most recent date of occurrence observed.

Temperature Statistics



Lake Pleasant North 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	7/5	34	1/8	74.3	82	8/18	46	7/21
2023	113	7/20	35	1/24	73.0	74	8/9	42	2/22
2022	111	7/11	36	2/24	73.5	77	7/18	41	10/3
2021	112	6/16	38	1/25	74.1	88	7/23	48	7/16
2020	115	8/14	40	2/6	75.9	74	8/2	55	8/20
2019	114	8/5	36	2/22	74.2	74	8/28	46	10/30
2018	114	8/6	35	2/25	76.0	77	7/31	63	7/27
2017	104	6/20	44	1/25	74.2	73	7/25	49	3/30
2016	119	6/19	38	1/9	77.3	79	8/4	57	7/29
2015	110	8/15	32	1/1	72.8	76	8/22	40	12/26
2014	108	7/30	36	12/30	72.8	85	8/24	68	8/25
2013	113	6/28	30	1/14	72.3	75	7/21	51	8/17
2012	112	8/12	39	12/28	74.3	83	7/29	43	2/27
2011	112	8/29	31	2/4	74.2	83	7/5	48	3/21
2010	112	8/24	34	12/31	74.0	80	7/17	48	7/16
2009	113	8/28	33	2/11	72.8	74	8/22	51	12/7
2008	106	6/20	31	12/27	69.8	71	7/26	43	8/28
2007	110	8/16	31	1/14	73.2	76	8/2	48	7/7
2006	116	7/14	35	12/21	73.4	81	8/1	58	9/14
2005	115	8/29	36	12/17	73.5	77	8/10	44	7/30
2004	109	7/12	32	11/30	69.8	76	7/14	59	7/16
2003	115	8/10	32	12/29	72.8	75	8/28	43	8/14
2002	111	7/12	33	1/31	71.7	71	7/24	46	2/9
2001	115	7/2	34	12/14	84.5	73	9/15	47	8/11

*Latest date of occurrence observed.

Lake Pleasant North 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	1/6/2006	56.2	30	1/14/2013	45	1/31/2016	4.5
February	87	2/26/2016	57.5	31	2/4/2011	46	2/9/2002	4.1
March	97	3/17/2007	63.4	38	3/2/2023	49	3/30/2017	4.2
April	104	4/22/2012	70.9	40	4/16/2009	51	4/14/2006	4.7
May	110	5/23/2001	78.8	46	5/23/2008	43	5/1/2014	4.8
June	119	6/19/2016	88.8	62	6/4/2008	46	6/21/2001	4.3
July	116	7/14/2006	92.5	64	7/10/2008	63	7/27/2018	4.1
August	115	8/14/2020	91.0	67	8/31/2008	68	8/25/2014	3.9
September	111	9/7/2011	86.6	58	9/21/2004	58	9/14/2006	4.0
October	106	10/4/2024	75.9	45	10/31/2004	49	10/27/2020	4.2
November	97	11/3/2009	64.7	32	11/30/2004	46	11/8/2020	4.4
December	84	12/12/2010	55.8	31	12/27/2008	51	12/7/2009	4.1

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	15300	04/24/00	Tipping Bucket	Hydrolynx	5050P	9.9	mm	Variable
Temperature	15301	04/24/01	Probe, Radiation Shield	Vaisala, Hydrolynx	HMP155, 4550	9.9	deg F/C	15 minutes
Relative Humidity	15302	04/24/01	Probe, Radiation Shield	Vaisala, Hydrolynx	HMP155, 4550	9.9	%	15 minutes
Dewpoint (calculated)	15316	05/01/01	---	---	---	---	deg F	15 minutes
Wind Speed	15304	04/24/01	3-cup	Hydrolynx	5050WS	10.3	mph	15 minutes
Wind Direction	15305	04/24/01	Pointer	Hydrolynx	5050WD	9.8	deg	15 minutes
Peak Wind	15306	04/24/01	---	---	---	---	mph	15 minutes
Solar Radiation	15311	04/24/01	Silicon photovoltaic cell	Hydrolynx	4015	10.2	watt/sqm	30 minutes
Barometric Pressure	15303	04/24/01	Solid state	Hydrolynx	1522	4.2	mb, inHg	30 minutes



2801 W. Durango St. Phoenix, AZ 85009 602-506-1501