

Climate Summary Report

Mount Union Weather Station

Prescott, Arizona

Period of Record: Calendar Years 1996-2024

Date of Station Installation: 08/16/1982

Weather Sensors Installation: 12/11/1987



State: Arizona

County: Yavapai

Latitude: 34° 24' 54.3" (34.41507)

Longitude: 112° 24' 17.2" (-112.40478)

TRS: T12N-R2W-Section 1

Location: The top of Mt. Union, 10 miles SSE of Prescott

Time Zone: MST – all year

Data Repeater: Direct

Elevation: 7,975 ft. msl

Owner: Flood Control District of Maricopa County

NWS CWA/Zone #: Flagstaff, 08

Archived: Yes, from date of sensor installation

Site Description: flat ground, Soil type – dirt/grass

Obstructions: 50' tower 10' NNW of station

* For information on annual and monthly rainfall totals at Mount Union refer to http://alert.fcd.maricopa.gov/alert/Rain/FOPR/1000_FOPR.xlsx.

Flood Control District of Maricopa County

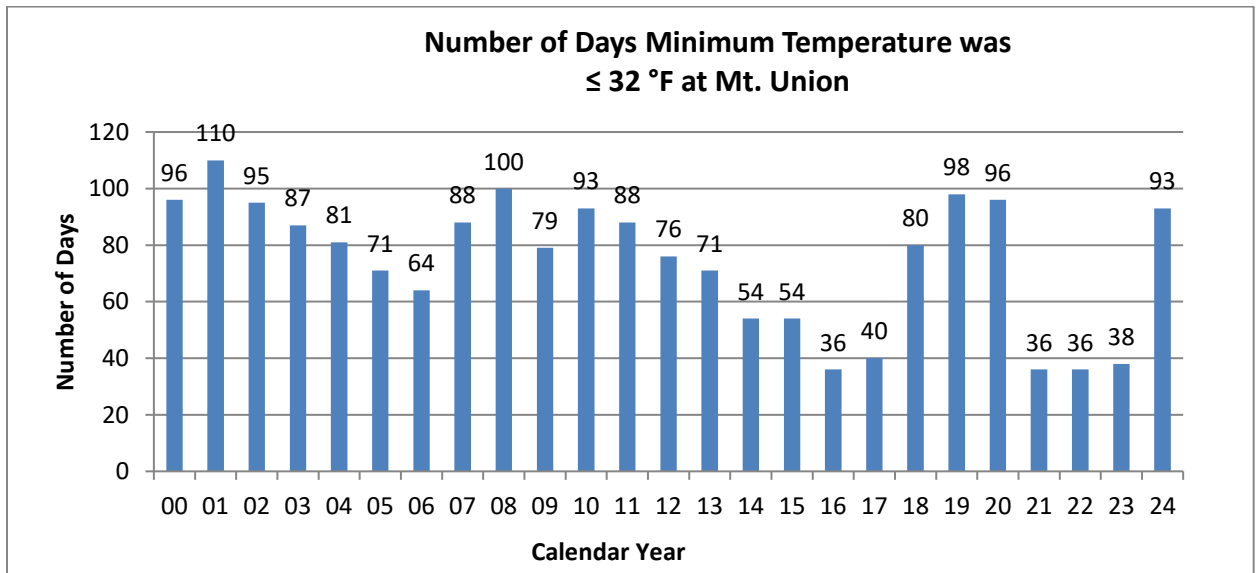
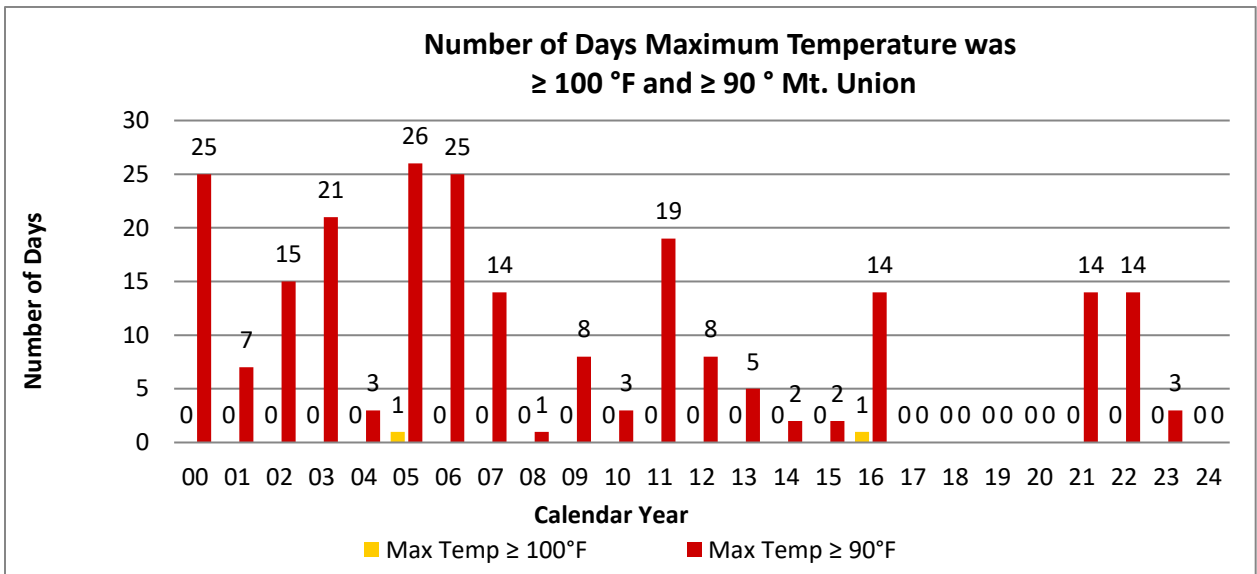
Mount Union Weather Station 1996-2024

All-Time Records*

Temperature	High	100°F	6/19/2016
	Low	0°F	2/2/2011
Dewpoint	Maximum Dewpoint	72°F	12/27/2008

*Most recent date of occurrence observed.

Temperature Statistics



Mount Union Weather Station Annual Statistics

Year	Maximum Temp		Minimum Temp		Mean Temp	Maximum Dewpoint	
	°F	Date*	°F	Date*	°F	°F	Date*
2024	87	7/08	9	1/8	52	56	7/19
2023	92	7/15	15	1/20	62	55	8/29
2022	97	6/15	13	3/16	57	65	7/23
2021	97	6/15	13	3/16	57	65	7/23
2020	88	8/15	6	2/4	51	58	8/30
2019	83	8/31	6	1/2	48	56	7/31
2018	84	7/5	11	12/28	50	61	7/18
2017	89	6/21	14	12/21	53	61	7/23
2016	100	6/20	9	2/2	56.6	69	8/1
2015	90	6/26	12	12/26	53.3	62	7/5
2014	91	7/1	16	12/27	53.3	66	9/14
2013	94	6/28	6	1/15	51.6	65	7/25
2012	93	6/26	16	12/31	53.8	69	7/31
2011	93	9/4	0	2/2	52.2	69	7/25
2010	91	7/15	5	12/31	51.8	68	7/29
2009	93	8/4	15	12/8	52.9	63	7/25
2008	91	6/20	10	12/27	49.7	72	12/27
2007	98	7/4	4	1/14	52.5	72	9/1
2006	98	7/14	11	11/30	54.5	72	7/28
2005	100	7/16	16	1/7	53.7	67	1/24
2004	91	8/9	13	12/24	52.2	65	8/6
2003	98	7/10	12	12/28	53.2	64	8/26
2002	95	7/8	7	1/31	51.5	61	7/17
2001	94	8/26	7	12/16	50.5	62	8/10
2000	98	7/19	14	1/3	52.1	54	9/21

*Latest date of occurrence observed.

Mount Union Weather Station Monthly Statistics

Month	Maximum Temp		Mean Temp ¹	Minimum Temp	
	°F	Date*	°F	°F	Date*
January	69	1/16/03, 1/27/03	37.4	4	1/14/07, 1/1/11
February	71	2/22/02	37.1	0	2/2/11
March	79	3/20/04	42.4	11	3/2/11
April	84	4/26/00	48.4	19	4/10/01
May	91	5/27/03	57.0	26	5/23/19
June	100	6/20/16	67.7	34	6/5/08
July	100	7/16/05	70.1	49	7/25/04
August	97	8/17/06	67.5	45	8/30/00
September	93	9/4/11	63.1	37	9/21/04, 9/24/17
October	87	10/1/03, 10/20/03	53.2	16	10/30/19
November	80	11/3/09	44.3	11	11/30/06
December	74	12/13/10	37.1	5	12/31/10

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	1000	Since 07/10/92 10/01/87-07/10/92 05/01/83-10/01/87 08/16/82-05/01/83	Tipping Bucket	Hydrolynx	5050P	12.1	mm	Variable
Temperature	1001	12/11/87	Capacitive Ceramic THERMOCAP	Vaisala	WXT510	13.5	deg F/C	15 minutes
Relative Humidity	1002	12/01/94	Film Polymer HUMICAP	Vaisala	WXT510	13.5	%	15 minutes
Dewpoint (calculated)	1016	09/19/00	---	---	---	---	deg F	15 minutes

