

Climate Summary Report

Magma FRS Weather Station

Magma, Arizona

Period of Record: Calendar Years 1996-2024

Date of Station Installation: 10/27/1988

Weather Sensor Installation: 12/19/1995



State: Arizona

County: Pinal

Latitude: 33° 07' 06.5" (33.1184)

Longitude: 111° 24' 16.6" (-111.4046)

TRS: T4S-R9E-Section 35

Location: 7 miles NNW of Florence

Time Zone: MST – all year

Data Repeater: Sacaton Peak

Elevation: 1,625 ft. msl

Owner: Flood Control District of Maricopa County

NWS CWA/Zone #: Phoenix, 28

Archived: Yes, from date of sensor installation

Site Description: On top of FRS flat ground, Soil type – dirt/gravel

Obstructions: No Obstructions

* For information on annual and monthly rainfall totals at Magma FRS refer to http://alert.fcd.maricopa.gov/alert/Rain/FOPR/42300_FOPR.xlsx.

Flood Control District of Maricopa County

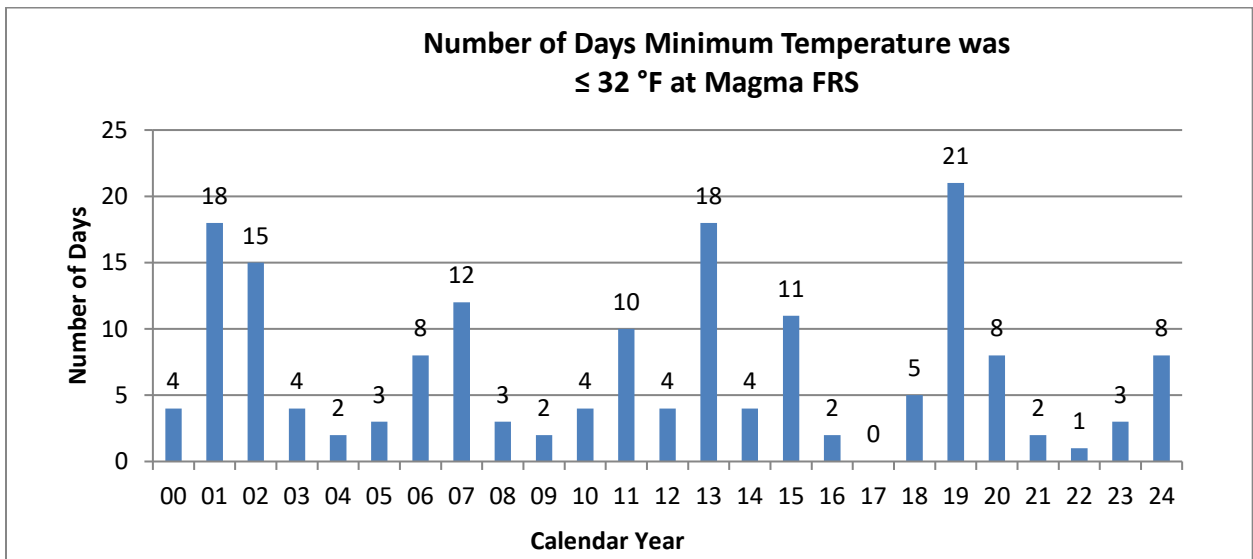
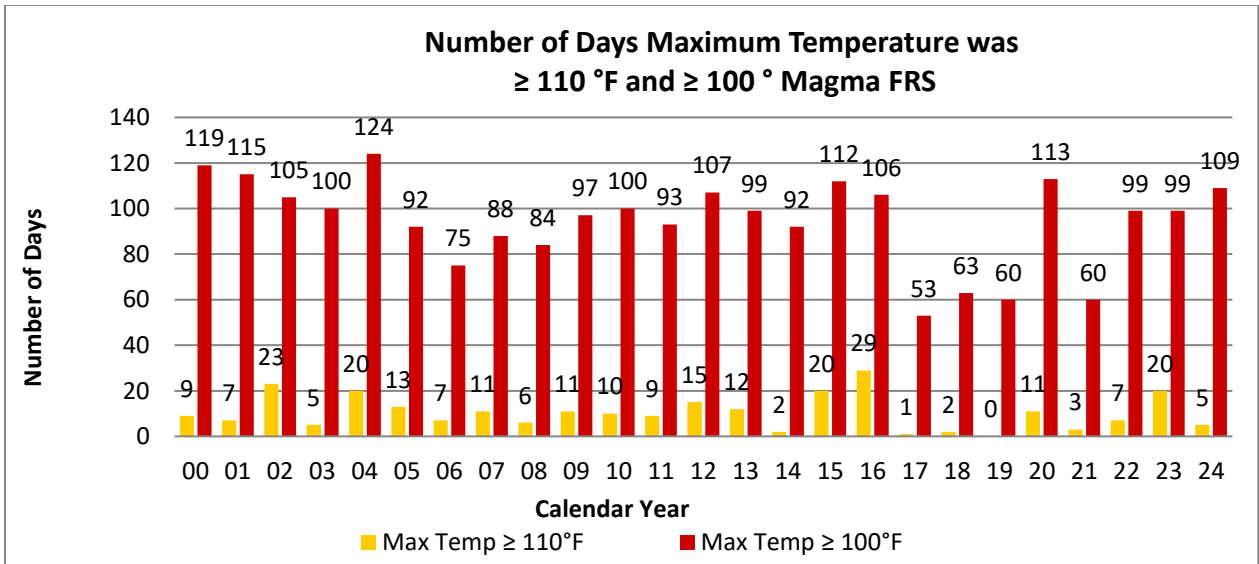
Magma FRS Weather Station 1996-2024

All-Time Records*

Temperature	High	119°F	7/15/1998
	Low	17°F	1/15/2013
Wind	Peak Wind Gust	70 MPH	6/29/2016
Dewpoint	Maximum Dewpoint	83°F	8/15/2004

*Most recent date of occurrence observed.

Temperature Statistics



Magma FRS 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	111	7/08	28	1/12	72.4	82	8/7	39	8/22
2023	115	7/19	29	1/24	72.8	74	8/21	52	7/26
2022	110	7/22	31	2/3	73.1	77	9/21	56	10/15
2021	113	6/17	32	1/03	71.9	73	7/10	49	8/16
2020	113	7/31	23	2/5	72.6	75	8/21	50	8/16
2019	108	7/16	26	1/3	68.6	72	8/1	47	11/29
2018	112	7/24	28	12/29	72.7	72	9/19	47	8/9
2017	110	7/7	37	12/22	74.6	77	7/28	40	2/13
2016	118	6/19	31	2/3	76.6	79	8/12	70	6/29
2015	115	8/15	28	12/26	74.4	75	9/24	37	8/23
2014	113	7/24	28	12/28	73.3	80	8/27	34	8/20
2013	116	6/29	17	1/15	71.7	80	8/25	47	8/15
2012	112	8/13	31	12/20	73.1	80	7/29	39	6/27
2011	114	7/2	19	2/3	71.7	76	8/27	42	2/19
2010	112	8/24	26	11/30	72.6	79	7/30	45	10/5
2009	114	7/8	28	12/26	73.8	78	7/2	47	7/17
2008	112	6/21	29	12/28	72.5	79	7/12	44	7/19
2007	112	7/5	26	1/15	73.5	78	7/26	44	7/19
2006	115	7/21	28	12/21	71.4	74	8/24	45	5/22
2005	113	7/13	28	11/28	72.0	80	7/25	58	5/28
2004	115	7/12	32	1/5	75.8	83	8/15	53	7/25
2003	113	7/16	28	12/28	72.7	75	8/27	55	8/22
2002	114	7/12	26	1/31	72.0	79	7/24	57	8/18
2001	115	7/2	27	1/19	70.9	78	8/10	51	7/2
2000	113	7/25	31	12/16	71.9	73	8/24	59	7/30

*Latest date of occurrence observed.

Magma FRS 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	91	1/16/2000	54.5	13	1/13/1999	47	1/21/2010	4.0
February	99	2/16/2000	56.4	19	2/3/2011	45	2/3/2005	4.6
March	105	3/30/2004	64.0	28	3/3/2002	43	3/22/2007	5.1
April	107	4/22/2012	70.4	32	4/2/2023	49	4/5/2001	5.8
May	112	5/12/1996	79.6	45	5/31/2010	58	5/28/2005	5.7
June	118	6/19/2016	88.9	52	6/5/1999	70	6/29/2016	5.4
July	119	7/15/1998	92.1	48	7/31/2000	59	7/30/2000	6.2
August	116	8/28/1998	90.6	44	8/24/2014	57	8/18/2002	5.5
September	112	9/5/2020	85.9	55	9/28/2013	51	9/1/2005	5.5
October	107	10/1/2024	74.6	33	10/30/2019	56	10/15/2022	4.9
November	99	11/18/1996	62.9	13	11/2/1997	47	11/29/2019	4.2
December	97	12/28/1996	53.5	27	12/26/1997	43	12/24/2016	3.9

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	42300	Since 06/16/92 10/27/88-06/16/92	Tipping Bucket	Hydrolynx	5050P	14.0	mm	Variable
Temperature	42301	12/19/95	Transducer, Radiation Shield	Hydrolynx	2048, 4550	14.7	deg F/C	15 minutes
Relative Humidity	42302	12/19/95	Polymer film, Radiation Shield	Hydrolynx	2048, 4550	14.7	%	15 minutes
Dewpoint (calculated)	42316	06/01/98	---	---	---	---	deg F	15 minutes
Wind Speed	42304	06/19/96	Mechanical Wind Sensors	Young	5108	14.1	mph	15 minutes
Wind Direction	42305	02/28/02	Mechanical Wind Sensors	Young	5108	14.1	deg	15 minutes
Peak Wind	42306	06/19/96	---	---	---	---	mph	15 minutes

