

Climate Summary Report

Estrella Fan Weather Station

Avondale, Arizona

Period of Record: Calendar Years 1996-2024

Date of Station Installation: 11/12/1992

Weather Sensor Installation: 12/02/1992



State: Arizona

County: Maricopa

Latitude: 33° 16' 10.1" (33.2695)

Longitude: 112° 19' 15.3" (-112.3209)

TRS: T2S-R1W-Section 12

Location: Near the alignments of El Mirage Road and Germann Road

Time Zone: MST – all year

Data Repeater: Waterman Wash

Elevation: 1,450 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, rocks, small shrubs

Obstructions: No Obstructions

* For information on annual and monthly rainfall totals at Estrella Fan refer to http://alert.fcd.maricopa.gov/alert/Rain/FOPR/84200_FOPR.xlsx.

Flood Control District of Maricopa County

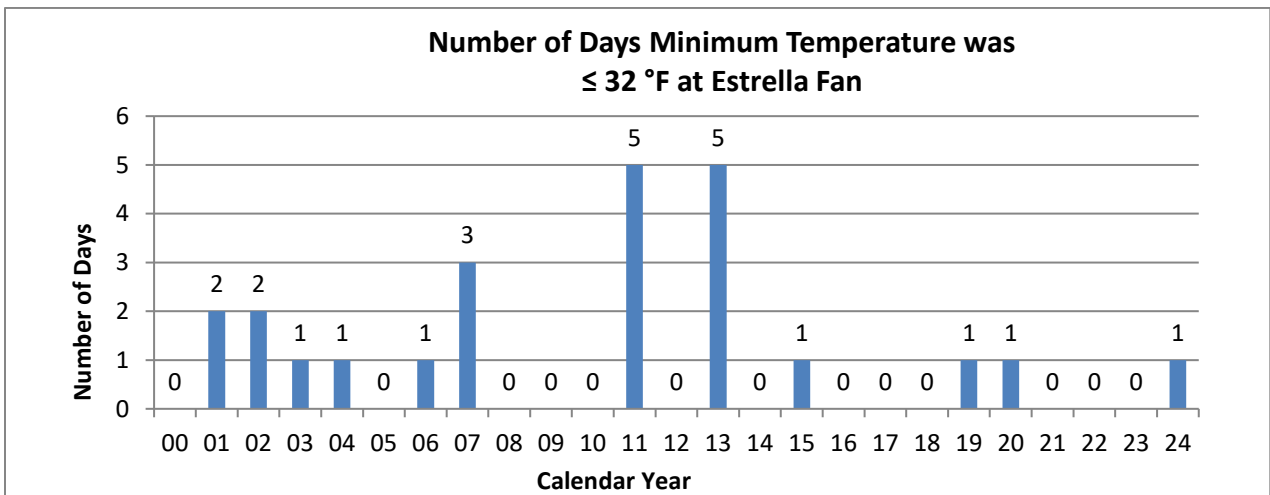
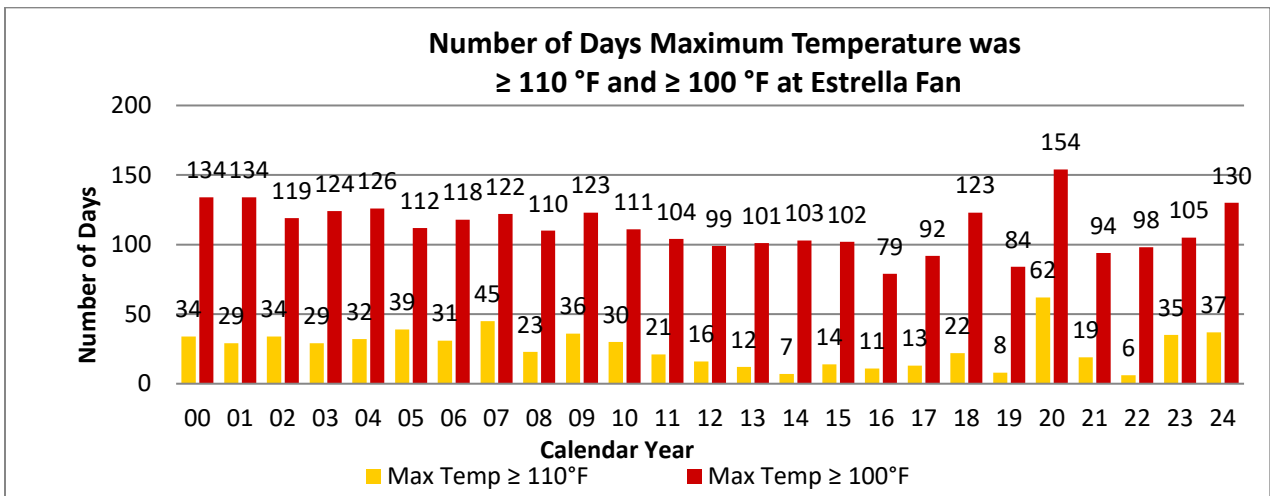
Estrella Fan Weather Station 1996-2024

All-Time Records*

Temperature	High	126°F	7/28/1995
	Low	24°F	1/14/2007
Wind	Peak Wind Gust	96 MPH	8/27/2014
Dewpoint	Maximum Dewpoint	89°F	9/12/1994

*Most recent date of occurrence observed.

Temperature Statistics



Estrella Fan Weather Station

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

Annual Statistics

Year	Maximum Temp		Minimum Temp		Mean Temp	Maximum Dewpoint		Peak Wind	
	°F	Date*	°F	Date*	°F	°F	Date*	MPH	Date*
2024	116	7/5	32	1/9	77.0	71	7/24	49	1/16
2023	116	7/20	34	1/24	76.2	75	9/1	78	5/19
2022	112	7/11	34	12/15	75.9	76	9/21	29	10/3
2021	115	8/4	38	12/16	78.4	81	8/15	45	7/29
2020	118	8/14	32	2/4	79.5	72	8/30	34	11/1
2019	114	8/5	32	1/3	74.5	78	8/29	34	10/24
2018	116	7/25	34	12/30	77.4	77	10/2	38	7/9
2017	117	6/20	33	12/22	76.0	78	7/24	26	13/2
2016	116	6/19	35	2/3	77.3	79	8/4	31	12/29
2015	114	8/14	31	1/2	76.6	76	8/25	45	8/7
2014	115	7/24	35	12/31	77.6	89	9/1	96	8/27
2013	117	6/29	25	1/14	75.5	83	8/29	38	3/8
2012	115	8/12	36	12/28	76.6	82	7/14	39	9/12
2011	116	7/2	27	2/4	74.9	79	7/5	47	1/4
2010	115	7/2	35	12/31	76.2	80	8/22	53	11/25
2009	117	8/28	36	1/28	77.3	82	9/6	37	12/28
2008	115	6/21	33	12/18	75.3	79	7/10	49	8/28
2007	117	7/4	24	1/14	76.9	76	7/29	82	3/22
2006	119	7/21	30	12/21	75.3	78	7/28	38	6/27
2005	119	7/17	34	12/16	75.1	80	7/22	77	7/28
2004	115	8/8	32	1/5	75.5	76	7/14	34	9/18
2003	116	8/10	29	12/29	74.9	74	9/25	34	11/28
2002	114	7/9	28	1/31	74.8	75	9/8	34	11/27
2001	119	7/2	32	2/9	74.3	75	7/6	32	12/8
2000	116	9/14	33	1/3	74.7	71	8/29	34	7/31

*Latest date of occurrence observed.

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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	87	1/5/1988	57.2	24	1/14/2007	49	1/16/2024	1.8
February	98	2/24/1998	59.9	27	2/4/2011	43	2/25/2023	1.7
March	101	3/17/2007	66.7	37	3/15/2002	82	3/22/2007	1.7
April	106	4/29/2020	73.7	36	4/8/2010	57	4/4/2023	2.1
May	113	5/29/2020	82.8	46	5/1/1999	78	5/19/2023	2.0
June	124	6/10/2007	92.3	51	6/9/2006	47	6/28/2023	2.0
July	126	7/28/1995	95.7	68	7/28/1999	77	7/28/2005	2.0
August	120	8/5/1994	94.2	68	8/31/2000	96	8/27/2014	1.9
September	117	9/14/2000	89.3	55	9/24/2016	62	9/19/2023	1.9
October	111	10/1/2024	77.9	40	10/27/1996	66	10/11/2023	1.9
November	100	11/5/2020	65.6	35	11/29/2004	53	11/25/2010	1.7
December	85	12/1/1995	56.0	29	12/29/2003	44	12/16/2023	1.6

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	84200	11/15/92	Tipping Bucket	Hydrolynx	5050P	10.4	mm	Variable
Temperature	84201	12/02/92	Transducer, Radiation Shield	Hydrolynx	2048, 4550	12.0	deg F/C	15 minutes
Relative Humidity	84202	11/24/92	Polymer film, Radiation Shield	Hydrolynx	2048, 4550	12.0	%	15 minutes
Dewpoint (calculated)	84216	07/06/94	---	---	---	---	deg F	15 minutes
Wind Speed	84204	11/12/92	3-cup	Hydrolynx	5050WS	10.5	mph	15 minutes
Wind Direction	84205	05/12/01	Pointer	Hydrolynx	5050WD	10.3	deg	15 minutes
Peak Wind	84206	07/16/93	---	---	---	---	mph	15 minutes
Solar Radiation	84211	07/16/93	Silicon photovoltaic cell	Hydrolynx	4015	12.7	watt/sqm	30 minutes
Barometric Pressure	84203	03/09/94	Solid state	Hydrolynx	1522	4.2	mb, inHg	30 minutes

