

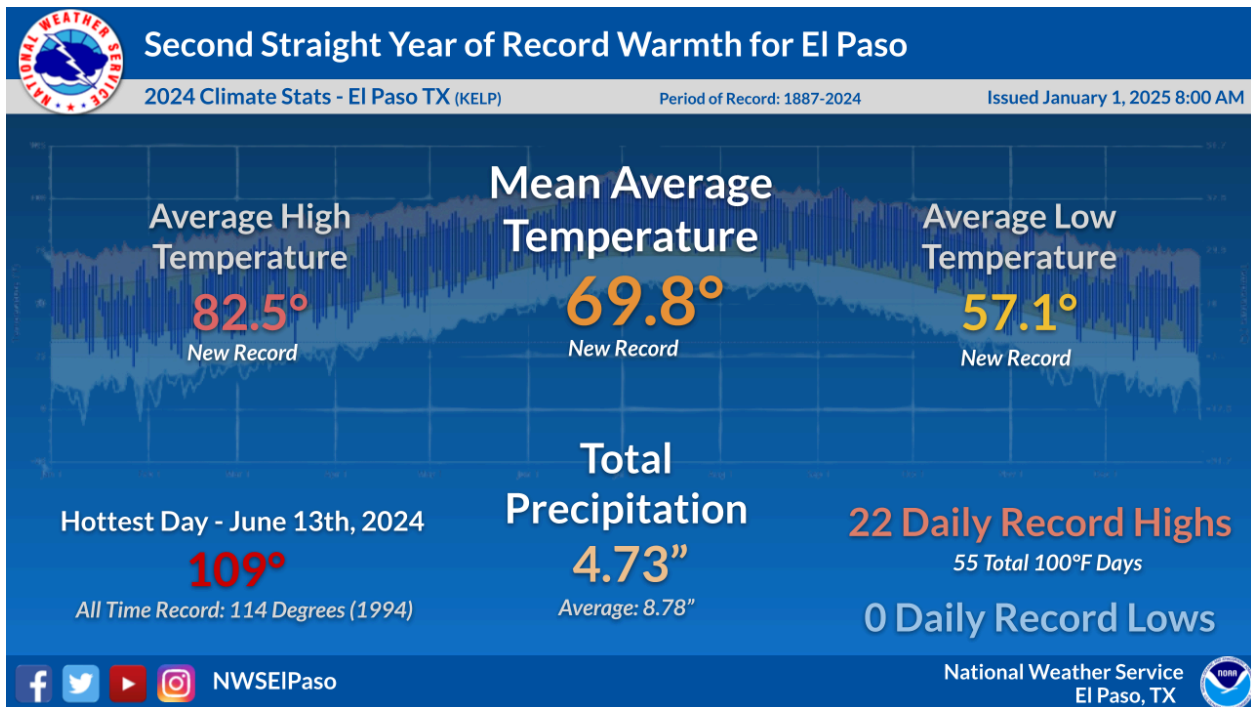
2024 Climate Report and Statistics

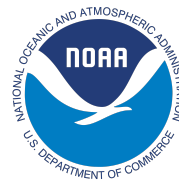
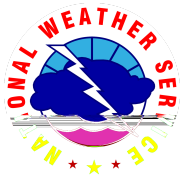
NWS El Paso

Updated 1/1/2025
Data Source: El Paso International ASOS (KELP)

Key Messages

- 2024 becomes warmest year in recorded history for El Paso, Texas
- New monthly heat records set in June, October
- Latest 100° day on record set in late September





Summary Report

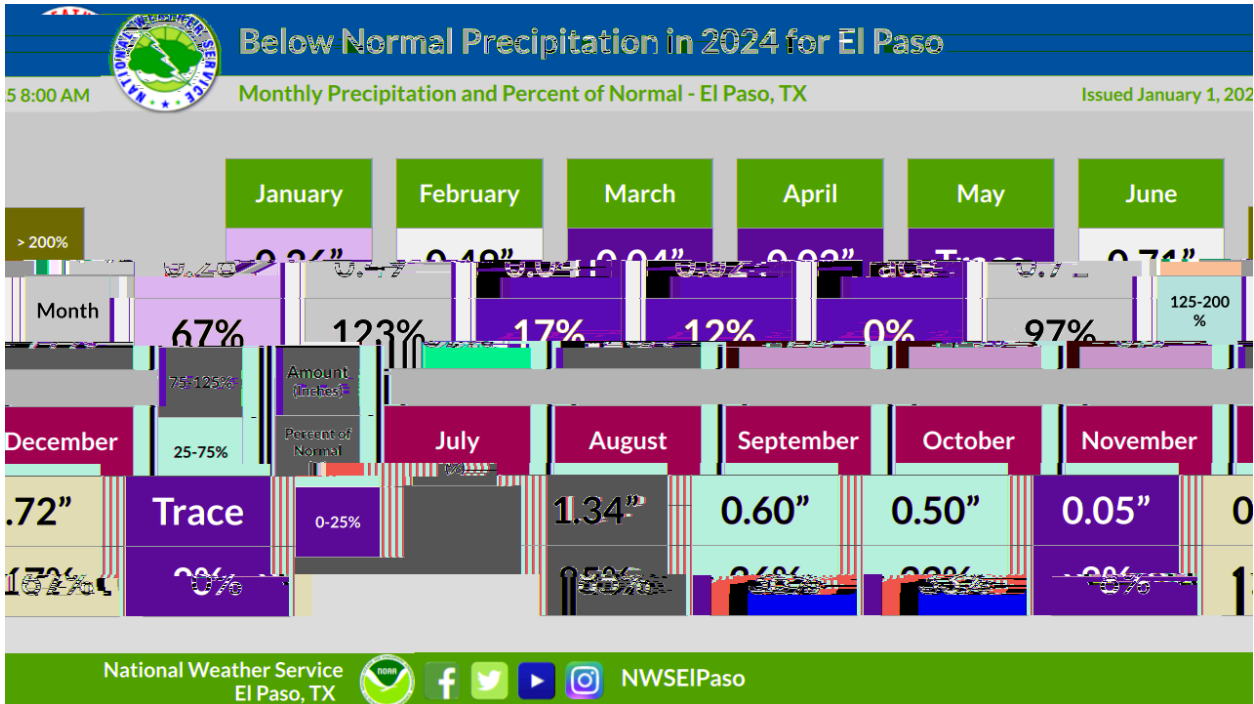
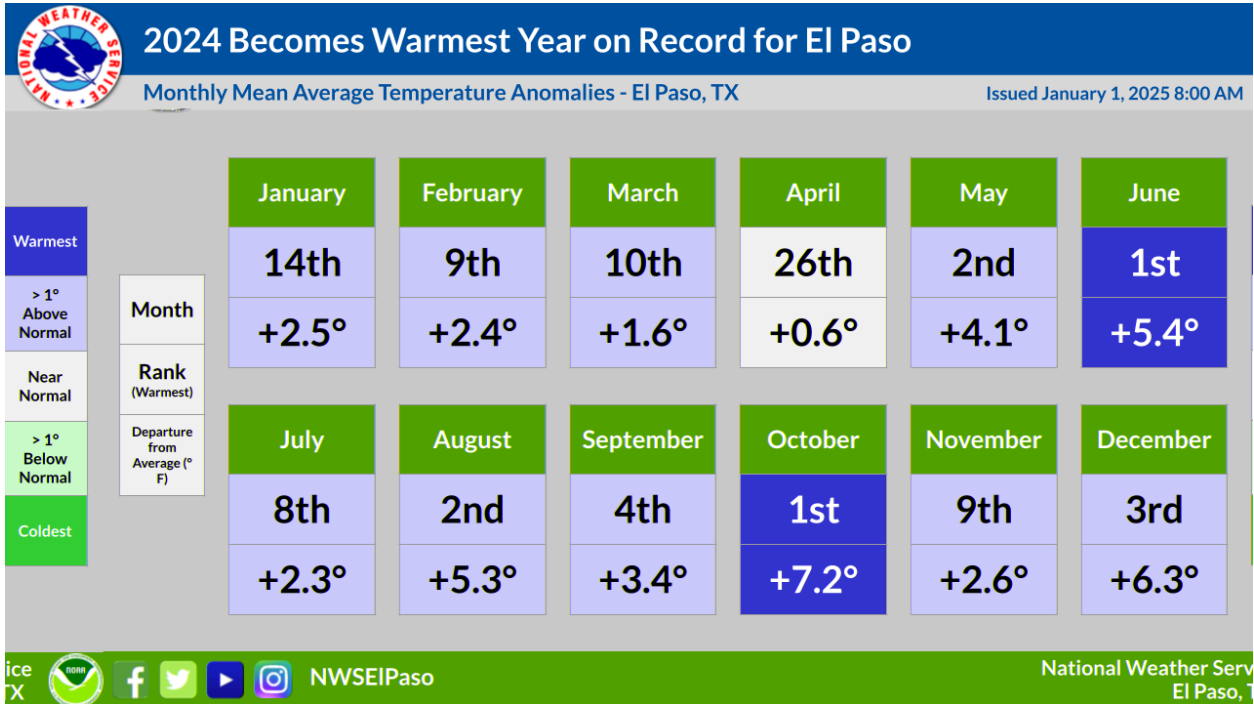
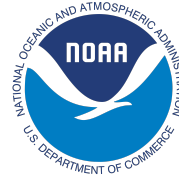
Climate records have confirmed that 2024 became the warmest year on record for El Paso, Texas since records began in 1887. This narrowly beats the previous record set last year. 22 new daily record highs were set, along with two monthly record highs and the latest 100-degree recording in history. While 2023 featured more extreme temperatures especially in the summer and autumn, 2024 was more consistent in above-average temperatures and heat waves lasted longer.

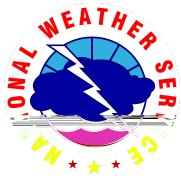
Precipitation was relatively normal through the first half of the year. A series of thunderstorm activity in early July helped El Paso briefly reach its annual normal. However, the final two months of the monsoon were exceptionally warm and dry, causing El Paso to receive only half of expected precipitation this year. This is the second straight year with below normal rainfall.

El Paso has not had a below-normal year of temperature in 33 years. This is connected to a national and global trend of rising temperatures. The two most direct reasons for El Paso's warming pattern are (1) increased urban heat island effects and (2) human-caused global warming. The El Niño Southern Oscillation (ESNO) remained in El Niño status until last May, where Neutral conditions have been present the rest of this year.

Annual Climate Data (2024)

- Mean average temperature: **69.8°** (prev 69.1° in 2023)
 - 30-year climate average is 66.0° **+3.8°**
- Average high temperature: **82.5°** (prev 82.3° in 2023)
 - 30-year climate average is 78.9° **+3.6°**
- Average low temperature: **57.1°** (prev 55.9° in 2018)
 - 30-year climate average is 53.0° **+4.1°**
- **55** days at or above 100° (4th most on record, avg 26 days)
- **21** daily record highs tied or broken, **30** daily record high mins
- **0** daily record lows tied or broken, **0** daily record low maxes
- Total Precipitation: **4.73"** (12th driest on record)
 - 30-year climate average is 8.78" **-4.05"**





Seasonal Climate Data

Winter (Dec 2023-Feb)

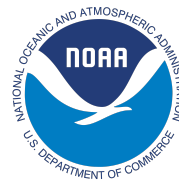
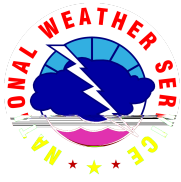
- 4th warmest Winter (Dec 1 - Feb 29) on record
- 1 daily record high broken or tied
 - February 25 - 83°
- Total Precipitation: 0.95" (avg 1.42")

Spring (Mar-May)

- 5th warmest Spring (Mar 1 - May 31) on record
- No daily record highs broken or tied
- Total Precipitation: 0.06" (avg 0.84")

Summer (Jun-Aug)

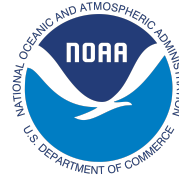
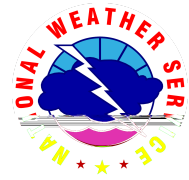
- 2nd warmest Summer (Jun 1 - Aug 31) on record
- 7 daily record highs broken or tied
 - June 13 - 109°
 - August 8 - 104°
 - August 16 - 105°
 - August 17 - 105°
 - August 19 - 104°
 - August 22 - 103°
 - August 23 - 103°



- Total Precipitation: **2.65"** (avg 3.98")
- **Warmest June on record**
 - Average high temperature: **102.4°** (record 103.9° in 1980)
 - Mean average temperature: **89.3°** (prev 88.9° in 1994)
 - Average low temperature: **76.2°** (prev 74.6° in 1994)

Autumn (Sept-Nov)

- **2nd warmest Autumn (Sep 1 - Nov 30) on record**
- 13 daily record highs broken or tied
 - September 12 - **98°**
 - September 14 - **98°**
 - September 19 - **97°**
 - September 27 - **100°** - latest 100 on record
 - October 6 - **96°** - tied October record
 - October 10 - **93°**
 - October 12 - **94°**
 - October 13 - **91°**
 - October 23 - **91°**
 - October 24 - **93°**
 - October 27 - **91°**
 - October 28 - **91°**
 - November 26 - **77°**
- Total Precipitation: **1.27"** (avg 2.54")
- Latest triple-digit high in recorded history
 - **September 27 - 100°** (prev September 16, 1956)
- **Warmest October on record**
 - Average high temperature: **87.9°** (prev 85.5° in 1950)
 - Mean average temperature: **73.9°** (prev 71.3° in 2016)



- Average low temperature: **59.8°** (prev 58.1° in 2023)
- Tied monthly record: **96°** on October 6th

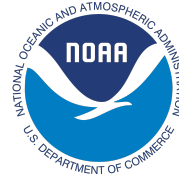
Calendar Day Summaries - Daily Record Highs

Highest Max Temperature by Day for El Paso Area, TX (ThreadEx)

[Click column heading to sort ascending](#), [click again to sort descending](#).

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	77 1910	77 1963	81 2006	88 2011	97 2020	103 2008	111 1994	104 2022	104 1982	94 2000	84 2011	75 2012
2	73 1971	76 2003	84 2016	92 2011	96 2020	106 2018	108 1994	108 1980	100 2014	96 2015	87 1983	80 1973
3	74 1997	77 2021	85 2009	88 1929	96 2020	109 2014	109 1960	105 1980	101 2020	94 2000	84 1916	75 1970
4	75 1888	79 1890	84 2009	89 1967	98 1947	107 2014	106 1980	107 2023	101 1983	95 2000	86 1988	76 1958
5	72 1916	82 1890	84 1925	92 2021	98 1947	107 2020	107 2023	109 2023	103 1948	96 1994	85 2020	75 1958
6	74 1939	77 2023	85 1910	92 1972	98 1997	110 2010	108 1992	112 2023	104 2023	96 2024	87 2023	77 1901
7	74 1952	79 2009	85 1910	92 1986	100 2020	108 1981	109 2023	109 2023	105 2023	96 1979	86 2023	74 2023
8	74 1969	79 2015	83 1985	93 1989	100 1989	106 2022	108 2023	104 2024	106 2023	95 1979	85 2023	76 1977
9	76 1909	78 2017	85 1989	92 2019	100 2018	106 1985	110 1979	106 2003	104 2023	94 2020	84 2005	75 1939
10	72 1953	83 2017	87 1989	92 1972	101 2018	107 1994	112 1979	105 2020	102 2023	93 2024	82 2003	74 2015
11	74 2005	84 2017	89 1989	94 2018	98 1962	107 2022	110 1979	106 2020	100 2023	96 1979	83 2005	76 1987
12	72 1957	79 1962	89 1989	90 2018	100 1996	109 2021	108 1979	107 2020	98 2024	94 2024	85 1899	77 1906
13	72 1953	79 1957	86 1989	92 1995	102 1996	109 2024	110 2020	106 2020	100 2017	91 2024	83 1899	74 1889
14	71 2022	81 1957	85 2017	93 2006	97 1996	108 1980	110 1979	107 2020	98 2024	95 2020	83 2017	76 1889
15	71 2003	83 2014	86 2017	93 1925	102 2000	108 1980	106 1963	106 2020	99 1956	92 1938	82 1981	74 2016
16	74 1914	82 2014	85 2017	93 1962	101 2022	108 1980	105 2023	105 2024	101 1956	90 2016	82 1981	76 2016
17	74 1971	81 2016	87 1887	94 1948	99 2018	109 1980	109 2023	105 2024	99 1956	91 1991	82 2017	73 1980
18	77 1921	85 2016	91 1907	94 1989	100 2020	108 2016	109 2023	106 1994	98 1973	92 2023	83 2023	79 1980
19	76 1906	81 2016	92 1907	95 1994	100 2004	108 1960	111 2023	104 2024	97 2024	90 2023	85 2020	74 1921
20	73 1971	83 1972	93 1907	96 1989	100 2008	109 2021	109 2023	103 2020	99 2023	91 2023	82 2020	74 1981
21	78 1974	83 1972	89 2017	98 1989	101 2005	109 1960	107 2023	104 2007	98 1980	90 2020	83 1897	77 1981
22	75 1950	79 2017	93 2017	98 1965	105 2005	110 1981	107 2018	103 2024	97 2023	89 1899	80 1897	73 1969
23	74 1970	84 1904	87 2018	93 2012	105 2005	111 2017	105 2018	103 2024	98 2023	91 2024	78 1965	74 1955
24	80 1970	86 1904	87 1988	97 1974	102 2000	111 1978	106 2016	102 1993	97 1982	93 2024	78 2017	76 2021
25	77 1999	83 2024	90 2012	95 2012	102 2006	111 1994	105 2023	104 2002	98 2020	90 1982	79 1965	75 1933
26	76 1975	83 2009	87 2022	95 2020	102 1951	112 1994	108 2023	106 2019	98 2020	90 1979	77 2024	76 1980
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29	75 1890	82 1972	88 2015	95 1992	102 1896	111 1994	105 1960	104 2020	98 1977	87 2016	77 1949	75 1955
30	77 1890	-	86 2010	97 1992	103 1994	114 1994	109 2020	103 2011	97 1994	86 2010	74 1970	76 2024
31	77 1890	-	87 2012	-	102 2018	-	104 1972	101 2011	-	87 1950	-	72 2017

Period of record: 1887-01-01 to 2024-12-30



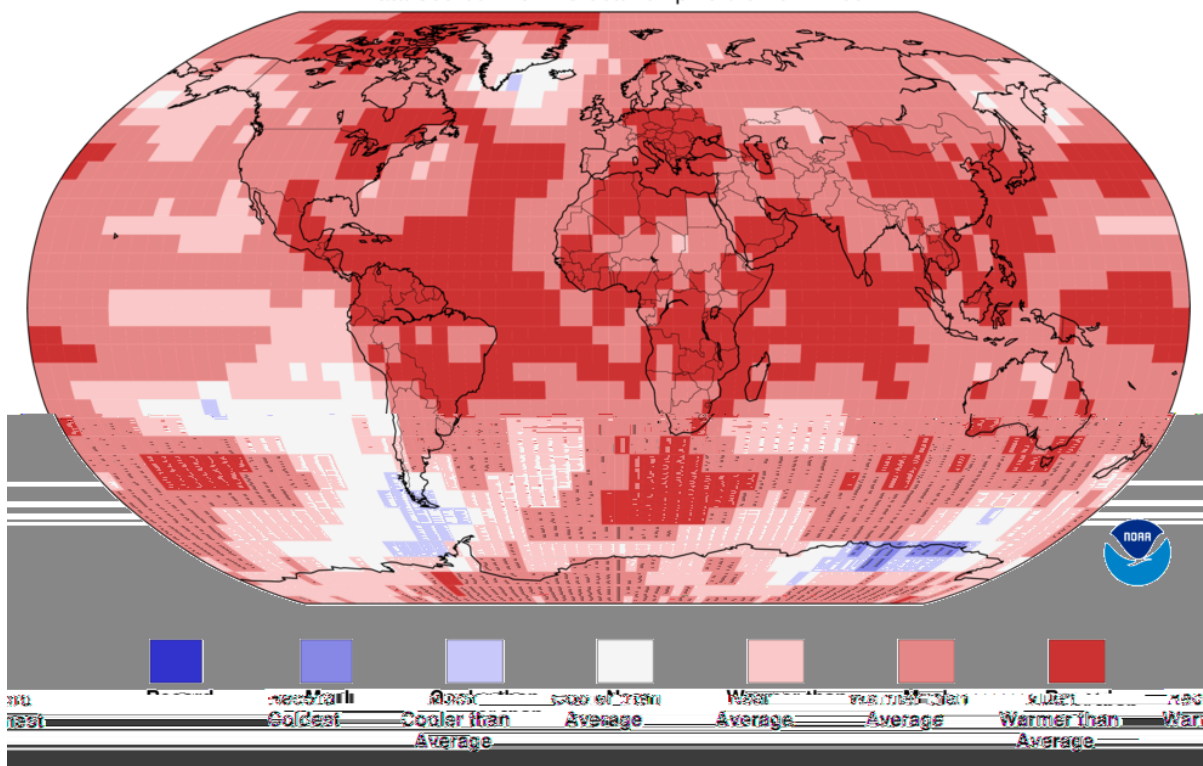
Climate in Perspective

- 2024 Mean Average Temperature and Ranks for Nearby Climate Sites:
 - Las Cruces, NM: **65.4°** 1st of 133 years
 - Albuquerque, NM: **60.0°** 1st of 133 years
 - Dallas, TX: **69.8°** 1st of 126 years
 - Midland, TX: **67.0°** 3rd of 94 years
 - Lubbock, TX: **64.2°** 1st of 114 years
 - Phoenix, AZ: **78.6°** 1st of 129 years
 - Tucson, AZ: **72.4°** 3rd of 130 years

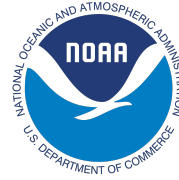
Land & Ocean Temperature Percentiles Jan-Nov 2024

NOAA's National Centers for Environmental Information

Data Source: NOAA GlobalTemp v6.0.0-20241208



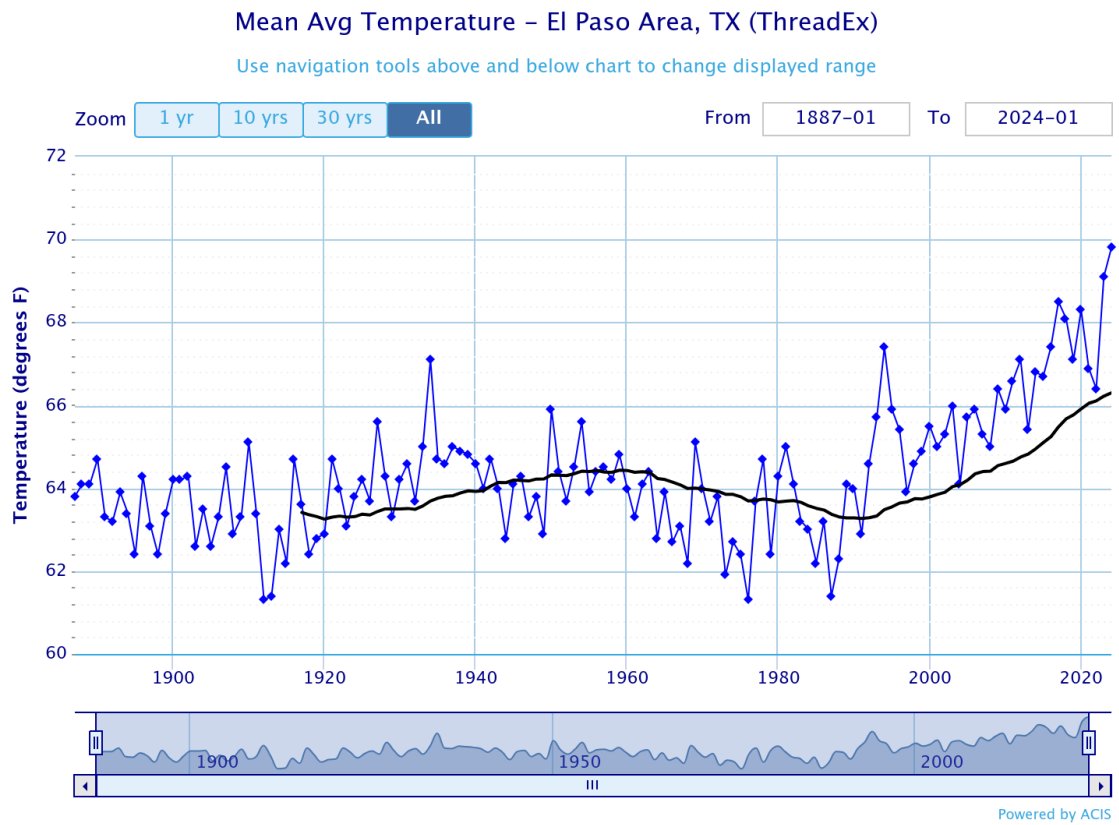
Top 10 Hottest Years - El Paso, TX (based on mean avg temp - 138 year period)

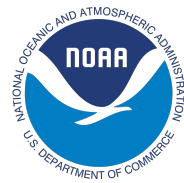
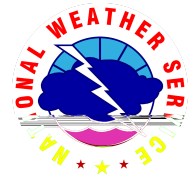


- (1) 2024 - 69.8°
- (2) 2023 - 69.1°
- (3) 2017 - 68.5°
- (4) 2020 - 68.3°
- (5) 2018 - 68.1°
- (6) 2016 - 67.4°
- (7) 1994 - 67.4°
- (8) 2019 - 67.1°
- (9) 2012 - 67.1°
- (10) 1934 - 67.1°

17 of the 20 hottest years have occurred within the last 25 years

Two most direct reasons for local warming pattern are (1) increased urban heat island effects and (2) human-caused global warming





Additional Links

[Latest NOAA Global Climate Report](#)

[IPCC Synthesis Report 2023 - Climate Change](#) (Summaries and Full Reports)

[Climate Highlights of 2023](#) (NOAA Climate.gov)

[Southern Regional Climate Center \(SRCC\)](#)

[NWS El Paso - Local Climate Data](#) (weather.gov)

<https://www.climate.gov/news-features/blogs/enso> - Highly recommended El Niño blog posts

[El Niño FAQs](#)

[Atlantic Hurricane Forecasting and Climate Change](#) (Fact Sheet)

[SCACIS](#) [NCEI Archives](#)