RESOLUTION NO._____

A RESOLUTION OF THE COUNCIL OF THE CITY OF FRESNO, CALIFORNIA MAKING AND ADOPTING EXPRESS FINDINGS THAT MODIFICATIONS OR CHANGES TO THE CALIFORNIA FIRE CODE ARE REASONABLY NECESSARY BECAUSE OF LOCAL CLIMATIC, GEOLOGICAL AND TOPOGRAPHICAL CONDITIONS

WHEREAS, the State of California has adopted the 2024 edition of the International Fire Code, with amendments, which was entitled the 2025 California Fire Code. The 2025 California Fire Code has been incorporated into Title 24, Part 9 of the California Code of Regulations and will take effect on January 1, 2026; and

WHEREAS, California Health & Safety Code Section 17958.5 authorizes the City, by ordinance, to make changes or modifications to the requirements contained in the provisions of the California Fire Code and other regulations adopted pursuant to California Health & Safety Code Section 17921(a) that result in more stringent local requirements; and

WHEREAS, California Health & Safety Code Sections 17958, 17958.5 and 17958.7 require more stringent local requirements be supported by express findings made by a city that such modifications or changes are "reasonably necessary because of local climatic, geological or topographical conditions"; and

WHEREAS, the Council of the City of Fresno intends this Resolution to fulfill the requirements of the California Health & Safety Code regarding modifications or changes

Date Adopted:
Date Approved:
Effective Date:
City Attorney Approval: DEC

to the California Fire Code including express findings of reasonable necessity because of local climatic, geological or topographical conditions.

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Fresno as follows:

1. Council expressly finds each of the various proposed modifications or changes to the California Fire Code, which are enumerated below, are reasonably necessary because of local climatic, geological and topographical conditions in the area encompassed by the City of Fresno, as follows:

A. LOCAL CONDITIONS:

Pursuant to Health and Safety Code, Sections 17958.7 and 18941.5, local climatic, topographical or geological conditions make the amendments to the California Fire Code reasonably necessary.

1. CLIMATIC – EXTREME TEMPERATURES, ARIDITY & FOG

1.1 As documented in the 2025 Fresno General Plan and the Master Environmental Impact Report No. 10130 for the General Plan, during the summer months the City of Fresno (City) experiences periods of what can only be described as extreme heat.

The last three years' worth of the "Local Climatological Data Annual Summary with Comparative Data" reports for 2022, 2023, and 2024 promulgated by the United States Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center demonstrate this condition. In the 2022 summary, the mean daily maximum temperature for Fresno in June, July, August and September is: 96.1°F, 100.8°F, 101.7°F and 95.3°F respectively. In 2023 the same information is noted as: 87.8°F, 101.8°F, 97.5°F and 88.7°F and in 2024 was: 97.0°F, 105.3°F, 98.4°F and 94.5°F.

Though Health & Safety Code § 17958.7 does not require the local conditions to be unique to a particular jurisdiction, the temperature charts demonstrate that the temperatures experienced in Fresno are extreme when compared to temperatures experienced in other parts of California.

1.2 Because of the extreme heat Fresno experiences during the summer months, Fresno firefighters responding to fires and other incidents requiring the evacuation of a building are regularly exposed to temperatures in excess of 101°F degrees, when accounting for their protective gear, exposing them to the

probability of heat cramps, heat exhaustion and possibly heat stroke.

1.3 These dry climatic conditions also contribute to the rapid spread of even small fires. These rapidly spreading fires create a need for increased levels of fire protection. The added protection of automatic fire sprinkler systems and other fire protection features supplement normal fire department response by providing immediate protection for the building occupants and by containing and controlling the spread of fire.

1.4 The City is also susceptible to periods of heavy fog, which dramatically reduces operator visibility during fire apparatus operation, and reduces fire apparatus speeds. Fog also results in multiple vehicle collisions by private motorists which reduce emergency response capacity for extended periods of time. Together these factors increase the need for additional fire protection features like automatic fire sprinkler systems.

2. GEOLOGICAL – WATER SUPPLIES & EARTHQUAKES

2.1 The Fresno City Metropolitan Area relies primarily on groundwater for its municipal water supply. According to the California Department of Water Resources (2020), the Kings basin (our underground aquifer) is in a state of critical overdraft.

2.2 Due to the hot, dry summers in the Fresno area, domestic water demand can substantially reduce the ability of the public water system to dependably meet the larger fire flow pressures that may be required during a significant fire event. Additionally, the City is served by two private water purveyors which also routinely display lower fire flow pressures.

2.3 The City has significant earthquake risk. A severe seismic event has the potential to negatively impact fire suppression, and other life-threatening response capability because it is likely to create obstacles on roadways, slowing fire apparatus response. History has shown that an increased numbers of fires will occur as a result of significant earthquake damage and the inclusion of additional fire protection features like automatic fire sprinkler systems will help to suppress fires during these challenging times.

3. TOPOGRAPHICAL – POOR AIR QUALITY CAUSED BY THE TOPOGRAPHY OF THE SAN JOAQUIN VALLEY AIR BASIN.

3.1 As a result of the San Joaquin Valley's topography, the San Joaquin Valley Air Basin (SJVAP) is predisposed to poor air quality. High mountain ranges surrounding the Valley frequently create air layer inversions that prevent mixing of air masses. The large number of sunny days per year, and high temperatures in the summer, favors the formation of ozone. In nearly all seasons, inversions form that often trap particulate matter.

3.2 The California Air Resources Board have classified the San Joaquin Valley Air Basin as extreme non-attainment/extreme (Federal standards) and non-

attainment (State standards) Ozone 8 – hour. PM_{10} is suspended particulate matter that is less than 10 microns in size. Given its small size, PM_{10} can remain airborne for long periods and can be inhaled, pass through the respiratory system, and lodge in the lungs. The City continues to be in non-attainment status for PM_{10}. Automatic fire sprinkler systems help reduce air pollution by limiting the amount of particulate matter in the air during any fire event.

3.3 Smoke is composed primarily of carbon dioxide, water vapor, carbon monoxide, particulate matter, hydrocarbons and other organic chemicals, nitrogen oxides, trace minerals and several thousand other compounds. Particulate matter is the principal pollutant of concern from some for the relatively short-term exposures (hours to weeks) typically experienced by the public. Particulate matter in wood smoke has a size range near the wavelength of visible light (.4-.7 micrometers). Since these particles can be inhaled into the deepest recesses of the lungs they are thought to represent a greater health concern than larger particles. Another pollutant of concern during some events is carbon monoxide. The San Joaquin Valley Air Pollution Control District states "Emissions from burning include fine particulate, hydrocarbons, oxides of nitrogen, oxides of sulfur, carbon monoxide, and toxic air contaminants that contribute to our air quality problems."

4. TOPOGRAPHICAL – FRESNO'S DEVELOPMENT PATTERN

4.1 Due to the relatively low-density growth pattern in the Fresno area, the City of Fresno's fire stations are spaced approximately four (4) miles apart resulting in an average of a two-mile running distance for the designated first-in engine company.

4.2 This average two-mile fire apparatus travel distance increases the response time to fires and other life-threatening emergencies, which result in an increase in the size and intensity of uncontrolled fires.

4.3 Traffic and circulation congestion is an artificially created obstructive topographical condition which occurs throughout the City of Fresno. This congestion increases the response time to fires and other life-threatening emergencies. Travel time is critical factor during the initial stages of any emergency. Typically, the earlier that suppression measures can be started or aid can be rendered the sooner the incident will be concluded.

4.4 The City of Fresno has several man-made topographical features that restrict fire apparatus response and/or increase travel times. The adoption of permissible traffic calming devices on public streets slows apparatus response. Additionally, the City is intersected by several major rail lines, including California High Speed Rail construction activities which divide the community and neighborhoods. and regions. Travel across these obstructions can cause delayed response to fires and other life-threatening emergencies which may be partially mitigated by the installation of built-in fire protection features like automatic fire

sprinkler systems and other protection measures to protect occupants, firefighters and property.

4.5 Topographical and/or traffic-caused delays in areas of the City not equipped with traffic preemption devices translates into slower responses and fire suppression operations.

B. REASONABLE NECESSITY

The Council of the City of Fresno expressly finds the modifications and changes to the California Fire Code are reasonably necessary due to the local conditions set forth above since they reduce the risks to life, property, public health and safety that result from the City of Fresno's climatic, geological and topographical conditions. The modifications and changes are further reasonably necessary and justified for the reasons set forth below.

In adopting the California Fire Code as the City of Fresno Fire Code, the City of Fresno proposes to make certain modifications or changes whose effect is to impose more stringent requirements locally than are mandated by the California Fire Code. These are specifically listed below, but may be generally characterized as relating to (1) automatic fire sprinkler systems; (2) additional regulation of lumber yards, woodworking, recycling, and waste handling facilities; (3) and additional regulation of motor fuel dispensing and repair garages, locations of above-ground tanks, the amount of Class I and Class II liquids at farms and construction sites in above-ground tanks and basement storage of flammable liquids. These requirements are reasonably necessary to address risks created by local climatic, geological or topographical conditions set forth above for the following reasons:

1. MORE RESTRICTIVE REQUIREMENTS FOR INSTALLATION OF AUTOMATIC FIRE SPRINKLERS: FRESNO MUNICIPAL CODE AMENDMENTS TO VARIOUS SECTIONS BEGINNING WITH 10-50903.1

1.1 The Fresno Municipal Code Amendments contain more restrictive requirements for installation of automatic fire sprinkler systems than those in found in the California Fire Code. The requirements are located beginning at Fresno Municipal Code Section 10-50903.1 (requiring installation and retrofitting of automatic fire sprinkler systems under prescribed conditions). The amendments are reasonably necessary to address risks created by local climatic, geological or topographical conditions.

1.2 Approximately thirty percent of all residential fires start in the kitchen. Furthermore, studies and testing performed by the United States Fire Administration has resulted in the United States Fire Administration concluding that a single low flow residential sprinkler in the kitchen was able to control both the cooking oil fire and an appliance fire on the countertop.

1.3 Studies performed by the city of Scottsdale, Arizona established in over 90 percent of the cases where automatic fire sprinklers were activated, the

fires were controlled with one fire sprinkler. Those one sprinkler activations deposited an average of 276 gallons of water in the structure, compared to an estimated average of 4,876 gallons that would have been sprayed by fire department hoses had sprinklers not been available. In summary, fires in buildings with sprinkler systems use thousands of gallons of water less to extinguish the fire than fires that occur in non-sprinklered property.

1.4 Fires in un-sprinklered buildings generate orders of magnitude more smoke than fires controlled with automatic fire sprinklers. As set forth above, smoke contains particulate matter and other pollutants which contribute to the San Joaquin Valley's sever non-attainment status relating to PM_{10}.

1.5 As such, this ordinance mandating more restrictive automatic fire sprinkler system installation standards is expressly found to be reasonably necessary to address risks created by local climatic, geological or topographical conditions, including limiting fire personnel's exposure to extreme temperatures, reducing the amount of water necessary to extinguish fires, reducing the amount of smoke generated by such fires, addressing extended run time due to topography-related low density growth pattern in the Fresno, and a reduction in effluent water used in fire suppression activities.

2. REQUIREMENTS REGARDING LUMBER YARDS, WOODWORKING, RECYCLING, AND WASTE HANDLING FACILITIES: VARIOUS FRESNO MUNICIPAL CODE, SECTIONS BEGINNING WITH 10-52801.1 THROUGH 10-52808.12

2.1 In 2003, the City of Fresno Fire Department was involved in costly and time consuming fire suppression activities at two separate wood waste and green waste recycling facilities. Neither of these two facilities was in compliance with the requirements found in the California Fire Code. After review of the suppression activities of both incidents, the City of Fresno Fire Department has concluded that even if the facilities had been in compliance with the code in effect at the time, the City would not have had the necessary means to rapidly suppress the fires. As a result, the fires lingered for numerous days, causing health and safety issues for the residents of the City, impacting air quality and the consumption of water resources.

2.2 The City of Fresno currently has a number of wood waste and green waste recycling facilities within its boundaries and anticipates more like facilities as the City endeavors to reduce the amount of solid waste processed in landfills.

2.3 The Fresno Fire Department has concluded that it does not have adequate equipment to quickly engage and control a fire.

2.4 Winter conditions in Fresno and the entire Central Valley include rain and other moisture issues (Tule Fog). The green waste/recycling business is very well known for the problem of spontaneous combustion associated with it when the right amount of moisture creates a chemical reaction that develops heat which in turn, if unchecked, starts fires in the green waste piles. As set forth above, much

of the year, Fresno has very hot, dry conditions. This makes all combustible materials more so, which increases the general fire hazard. As set forth above, this causes an obvious heat exposure to the firefighters that are responding to and addressing the emergency.

2.5 The larger the piles of wood product, the more heat retained and the more likely the piles will spontaneously combust. The larger the piles, the more difficult the fire is to fight, and as a result, the fire will burn longer, causing smoke to linger in the valley, creating a continuous health hazard to the residents and negatively affecting air quality. Additionally, as these fire burn longer, additional water resources are used, and additional water effluent is created, both reducing our water resources and creating downstream treatment issues.

2.6 The amendments to the California Fire Code reducing the dimensions of the size of the piles of such wood materials, and imposing additional safety measures, is necessary to ensure the City of Fresno's Fire Department's ability to quickly engage such fires and control them. By requiring pile size restrictions, separation, and access, the fire crews may more readily abate the emergency and/or hazard. On-site water mains and hydrant system will provide a more readily available source of water for firefighting, and will reduce the time it takes the fire crews to set up and extinguish a fire. The less time it takes to start the extinguishment process, the less time the fire has to spread and intensify. Access to a limited-size pile of green waste/recyclable material via all-weather roads will reduce the response time required by the Fire Department to set up and address a fire problem. Perimeter fencing provides a higher level of security for the business site and thereby reduces the threat of a possible arson-caused fire. Wood by-product stored in piles has a tendency to spontaneously combust and spread within a large pile.

2.7 The amendments relating to the storage of wood product are necessary to reduce, or attempt to reduce, air pollution in the San Joaquin Valley caused by wood fires, which is detrimentally enhanced by the above described local climatic, geologic and topographical conditions in the San Joaquin Valley.

3. REGULATION OF MOTOR FUEL DISPENSING AND REPAIR GARAGES, LOCATIONS OF ABOVE-GROUND TANKS, THE AMOUNT OF CLASS I AND CLASS II LIQUIDS AT FARMS AND CONSTRUCTION SITES IN ABOVE-GROUND TANKS AND BASEMENT STORAGE OF FLAMMABLE LIQUIDS: VARIOUS FRESNO MUNICIPAL CODE SECTIONS BEGINNING WITH 10-52306.2.3, THROUGH 10-52811.9

3.1 The following describes when particle classes of liquids and gases reach boiling if temperatures remain at over 100°F:

Class I flammable liquids: Some of these liquids, such as gasoline and acetone, have boiling points (rapid release of ignitable vapors) at temperatures of 100-130 degrees F. Elevated ambient temperatures for these liquids

increases the generation of flammable vapors and increases the chance of ignition.

Class II combustible liquids: These liquids have flash points (the temperature at which a liquid emits ignitable vapors) at or above 100°F. Local climatic conditions in the summer cause many common combustible liquids such as charcoal lighter fluid or paint thinner to be in a state of ready ignition from a spark or open flame.

For flammable and combustible liquids and gases, the range of ignitability as a percentage of vapor volume in air increases with rise in temperature. For example: gasoline vapor at room temperature will ignite (lower flammability limit or LFL) at 1.07 percent of air volume; at 100°F gasoline will ignite at .94 percent of air volume.

3.2 As set forth above, much of the year Fresno has very hot, dry conditions. This local condition makes all combustible materials (grass, weeds, buildings, roof, etc.) highly combustible, which increases the general fire hazard. High temperatures also make all flammable liquids and gases much more volatile, increasing the fire hazard.

3.3 Therefore, increased regulation of the storage of certain classes of fuels and gases is reasonably necessary to reduce the fire risk associated with the ignition of fuel and gases caused by local conditions.

2. This resolution shall be effective upon final approval.

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STATE OF CALIFORNIA)
COUNTY OF FRESNO) ss.
CITY OF FRESNO)

I, TODD STERMER, City Clerk of the City of Fresno, certify that the foregoing resolution was adopted by the Council for the City of Fresno, at a regular meeting held on the _____ day of _____ 2025.

AYES :
NOES :
ABSENT :
ABSTAIN :

Mayor Approval:_____, 2025
Mayor Approval/No Return:_____, 2025
Mayor Veto:_____, 2025
Council Override Vote:_____, 2025

TODD STERMER, MMC
City Clerk

BY: _____

Deputy

APPROVED AS TO FORM:
ANDREW JANZ
City Attorney

BY: _____
Daniel E. Casas Date
Senior Deputy City Attorney

Attachment:

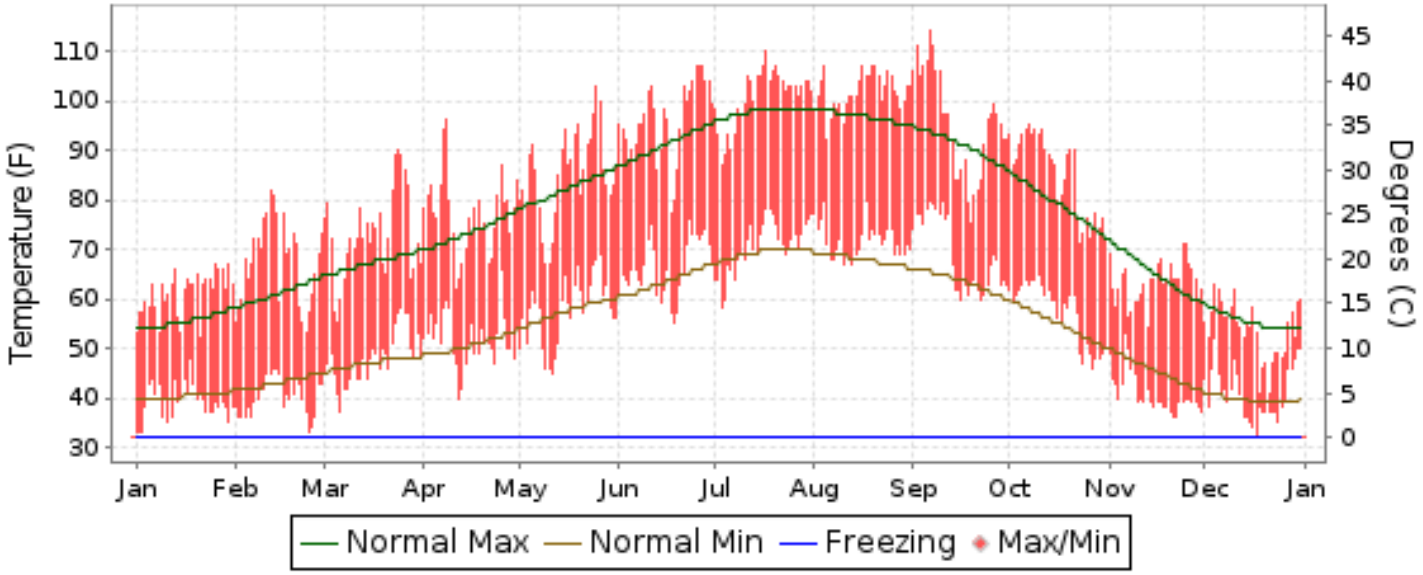
- Exhibit "1" – Historical temperature data compiled United States Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center, 2022 - 2024.

2022
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA

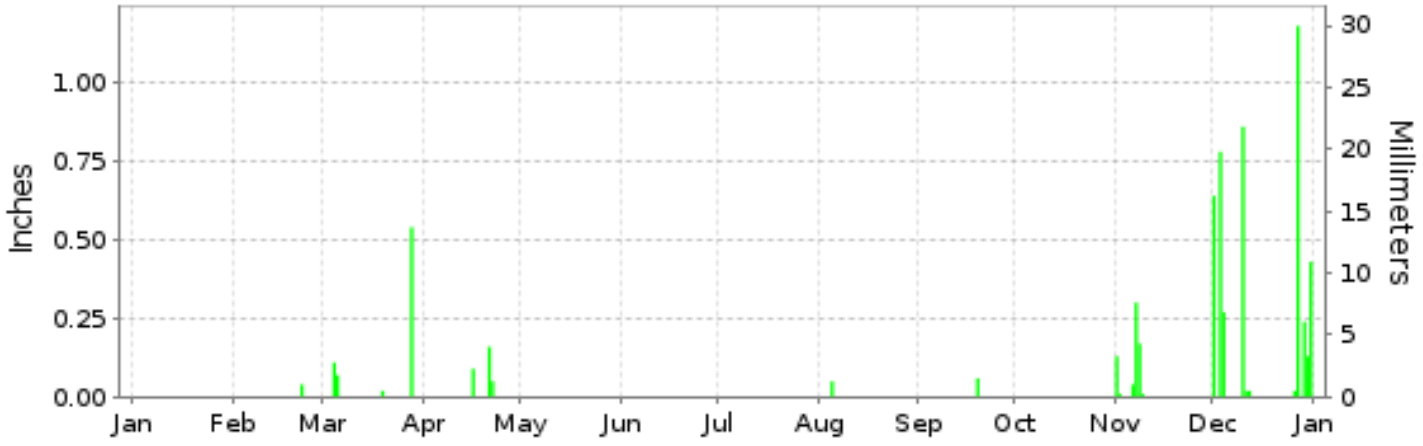
ISSN 0198-0890

FRESNO,
CALIFORNIA (KFAT)

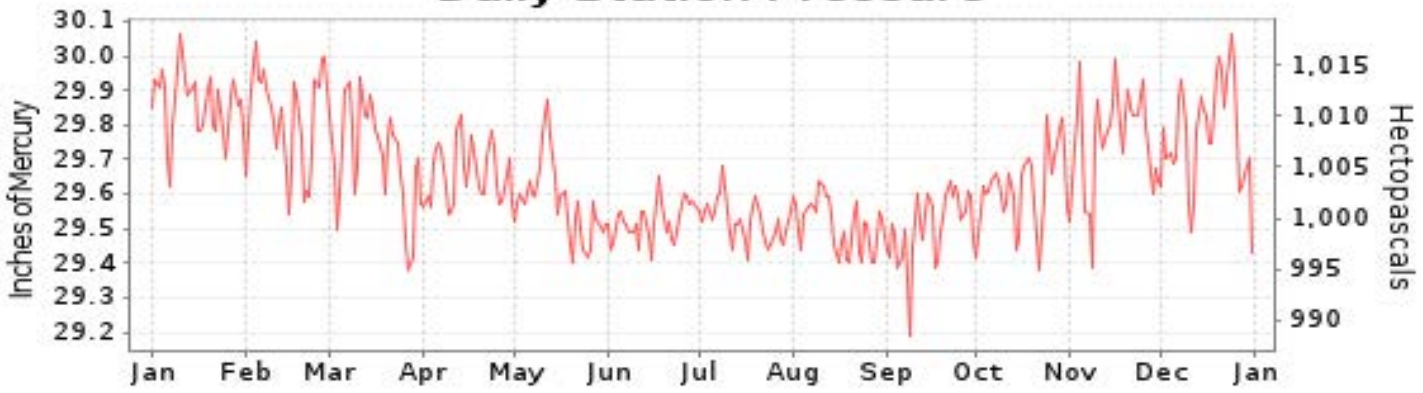
Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER.

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CENTERS for ENVIRONMENTAL INFORMATION (NCEI) ASHEVILLE, NORTH CAROLINA

DIRECTOR NCEI

METEOROLOGICAL DATA FOR 2022
FRESNO (KFAT)

LATITUDE: 36° 46'N **LONGITUDE:** 119° 43'W **ELEVATION (FT):** GRND: 334.29 BARO: 375 **TIME ZONE:** PACIFIC (UTC -8) **WBAN:** 93193

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	MEAN DAILY MAXIMUM	61.0	67.5	72.9	77.0	85.2	96.1	100.8	101.7	95.3	84.6	63.3	53.6	79.9
	HIGHEST DAILY MAXIMUM	67	82	90	96	103	107	110	107	114	95	71	63	114
	DATE OF OCCURRENCE	30+	12	24	08	25	27+	17	20+	06	07	25+	04	SEP 06
	MEAN DAILY MINIMUM	39.1	40.1	48.1	51.8	57.7	66.4	70.6	71.6	69.0	57.4	40.8	41.0	54.5
	LOWEST DAILY MINIMUM	33	33	37	40	45	55	58	67	60	46	36	32	32
	DATE OF OCCURRENCE	03+	24	06	12	11	18	03	13+	22+	27	22+	17	DEC 17
	AVERAGE DRY BULB	50.1	53.8	60.5	64.4	71.5	81.3	85.7	86.7	82.2	71.0	52.1	47.3	67.2
	MEAN WET BULB	45.3	44.8	50.7	52.2	55.6	61.1	64.8	66.2	64.1		45.3	45.2	
	MEAN DEW POINT	41.2	35.7	41.4	40.4	41.2	45.3	50.6	53.3	52.6		39.0	43.3	
	NUMBER OF DAYS WITH:													
	MAXIMUM >= 90°	0	0	1	2	10	25	29	31	21	12	0	0	131
	MAXIMUM <= 32°	0	0	0	0	0	0	0	0	0	0	0	0	0
	MINIMUM <= 32°	0	0	0	0	0	0	0	0	0	0	0	1	1
	MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0
H/C	HEATING DEGREE DAYS	453	308	171	70	29	0	0	0	0	32	381	542	1986
	COOLING DEGREE DAYS	0	0	39	59	238	494	649	680	519	227	0	0	2905
RH	MEAN (PERCENT)	77	56	54	46	37	32	34	36	41	47	67	89	51
	HOUR 04 LST	92	77	75	69	60	51	52	55	59	67	83	96	70
	HOUR 10 LST	73	46	47	40	30	27	28	31	34	38	57	85	45
	HOUR 16 LST	57	32	35	26	20	16	17	18	25	27	49	80	34
	HOUR 22 LST	86	65	58	49	40	36	38	39	43	53	75	93	56
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG(VISBY <= 1/4 MI)	9	0	1	0	0	0	0	0	0	0	1	8	19
	THUNDERSTORMS	0	0	1	0	0	0	0	1	0	0	1	0	3
PR	MEAN STATION PRESS. (IN.)	29.86	29.82	29.71	29.62	29.58	29.52	29.52	29.51	29.50	29.62	29.77	29.77	29.65
	MEAN SEA-LEVEL PRESS. (IN.)	30.22	30.17	30.06	29.96	29.93	29.86	29.86	29.85	29.84	29.97	30.12	30.13	30.00
WINDS	RESULTANT SPEED (MPH)	0.1	1.2	2.4	6.2	8.4	7.9	7.2	6.1	4.0		0.5	2.0	
	RES. DIR. (TENS OF DEGS.)	30	33	31	31	31	31	31	30	30		32	14	
	MEAN SPEED (MPH)	2.1	3.5	5.3	8.1	9.5	9.4	8.0	7.4	6.2	4.4	3.6	5.1	6.1
	PREVAIL.DIR.(TENS OF DEGS.)	29	29	29	31	31	31	31	30	31	30	29	12	31
	MAXIMUM 2-MINUTE WIND													
	SPEED (MPH)	12	25	26	25	26	31	21	21	21	20	35	31	35
	DIR. (TENS OF DEGS.)	10	29	29	29	29	08	31	31	31	31	08	32	08
	DATE OF OCCURRENCE	21	22	04	11	08	22	05	09	13	22	28	01	NOV 28
	MAXIMUM 3-SECOND WIND:													
	SPEED (MPH)	14	29	32	35	36	39	29	25	26	24	35	40	40
	DIR. (TENS OF DEGS.)	10	30	28	30	30	08	28	31	01	31	08	32	32
	DATE OF OCCURRENCE	21	22	04	12	19	22	22	09	21	22	28	01	DEC 01
PRECIPITATION	WATER EQUIVALENT:	T	0.04	0.74	0.30	0.00	T	T	0.05	0.06	0.00	0.66	4.59	6.44
	TOTAL (IN.)	T	0.04	0.54	0.21	0.00	T	T	0.05	0.06	0.00	0.34	1.18	1.18
	GREATEST 24-HOUR (IN.)	07	22	28	21-22		22	26	05	19		06-07	27	DEC 27
	DATE OF OCCURRENCE													
	NUMBER OF DAYS WITH:	0	1	4	3	0	0	0	1	1	0	6	11	27
	PRECIPITATION 0.01	0	0	2	1	0	0	0	0	0	0	3	8	14
	PRECIPITATION 0.10	0	0	0	0	0	0	0	0	0	0	0	1	1
	PRECIPITATION 1.00													
SNOWFALL	SNOW,ICE PELLETS,HAIL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	TOTAL (IN.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	GREATEST 24-HOUR (IN.)													
	DATE OF OCCURRENCE	0	0	0	0	0	0	0	0	0	0	0	0	0
	MAXIMUM SNOW DEPTH (IN.)													
	DATE OF OCCURRENCE													
	NUMBER OF DAYS WITH:	0	0	0	0	0	0	0	0	0	0	0	0	0
	SNOWFALL >= 1.0													

NORMALS, MEANS, AND EXTREMES
FRESNO (KFAT)

LATITUDE: 36° 46'N **LONGITUDE:** 119° 43'W **ELEVATION (FT):** GRND: 334.29 BARO: 375 **TIME ZONE:** PACIFIC (UTC -8) **WBAN:** 93193

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	55.4	61.3	67.5	73.7	82.7	91.4	97.7	96.5	90.7	78.7	64.9	55.3	76.3
	MEAN DAILY MAXIMUM	73	55.3	62.0	67.6	74.8	83.6	92.1	98.6	96.8	91.0	79.9	65.6	55.1	76.9
	HIGHEST DAILY MAXIMUM	73	78	83	91	100	107	111	114	112	114	102	90	77	114
	YEAR OF OCCURRENCE		2014	2020	2015	1981	1984	2021	2021	2020	2022	1980	2010	2006	SEP 2022
	MEAN OF EXTREME MAXS.	73	67.7	73.6	80.8	90.4	98.9	105.3	107.3	105.9	102.6	93.6	79.7	67.2	89.4
	NORMAL DAILY MINIMUM	30	40.6	43.3	47.3	50.9	57.6	63.9	69.3	67.9	63.4	54.6	45.4	39.8	53.7
	MEAN DAILY MINIMUM	73	38.2	41.1	44.4	48.6	54.9	61.3	66.5	64.8	60.4	51.8	43.0	37.7	51.1
	LOWEST DAILY MINIMUM	73	19	24	26	32	36	44	50	49	37	27	26	18	18
	YEAR OF OCCURRENCE		1963	1990	1966	1982	1975	1955	1955	1966	1950	1972	1975	1990	DEC 1990
	MEAN OF EXTREME MINS.	73	28.6	31.8	35.0	39.3	45.2	51.6	57.8	57.3	51.6	41.9	33.1	28.5	41.8
	NORMAL DRY BULB	30	48.0	52.3	57.4	62.3	70.2	77.6	83.5	82.2	77.1	66.7	55.1	47.5	65.0
	MEAN DRY BULB	73	46.7	51.5	56.0	61.7	69.3	76.7	82.6	80.8	75.7	65.9	54.3	46.4	64.0
	MEAN WET BULB	39	42.5	44.7	47.4	48.7	51.5	55.4	59.3	59.0	56.3	51.9	46.3	41.5	50.4
	MEAN DEW POINT	39	42.8	44.7	47.5	48.1	50.9	55.1	58.9	58.4	56.0	51.1	45.8	41.6	50.1
	NORMAL NO. DAYS WITH:														
	MAXIMUM >= 90	30	0.0	0.0	0.1	2.0	8.8	20.2	29.5	28.8	19.9	3.8	0.0	0.0	113.1
	MAXIMUM <= 32	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	MINIMUM <= 32	30	4.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	4.9	10.7
	MINIMUM <= 0	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
H/C	NORMAL HEATING DEG. DAYS	30	527	356	242	129	32	3	0	0	2	57	299	541	2188
	NORMAL COOLING DEG. DAYS	30	0	0	6	48	191	382	573	533	364	108	3	0	2208
RH	NORMAL (PERCENT)		84	77	70	57	48	43	40	44	49	58	74	83	61
	HOUR 04 LST	30	92	90	87	80	71	65	62	66	71	78	88	92	79
	HOUR 10 LST	30	85	77	66	51	44	39	38	41	45	52	71	83	58
	HOUR 16 LST	30	69	57	49	35	28	24	22	25	28	35	53	67	41
	HOUR 22 LST	30	89	83	76	62	51	44	42	46	51	63	81	88	65
S	PERCENT POSSIBLE SUNSHINE	46	47	65	77	85	90	95	97	96	94	88	66	46	79
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	59	9.9	4.2	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.5	4.5	9.6	30.1
	THUNDERSTORMS	73	0.2	0.4	0.8	0.6	0.6	0.4	0.2	0.2	0.5	0.5	0.2	0.3	4.9
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)														
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH:														
	CLEAR														
	PARTLY CLOUDY														
	CLOUDY														
PR	MEAN STATION PRESSURE(IN)	39	29.80	29.74	29.70	29.65	29.58	29.52	29.53	29.52	29.53	29.63	29.74	29.77	29.64
	MEAN SEA-LEVEL PRES. (IN)	39	30.16	30.09	30.05	30.00	29.92	29.87	29.86	29.86	29.88	29.98	30.10	30.15	29.99
WINDS	MEAN SPEED (MPH)	39	4.1	4.9	5.9	7.3	8.3	8.4	7.5	6.9	6.0	4.6	3.9	4.1	6.0
	PREVAIL.DIR(TENS OF DEGS)	47	12	32	32	32	31	31	31	31	31	31	31	12	31
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	27	38	36	36	40	32	33	24	26	31	35	35	35	40
	DIR. (TENS OF DEGS)		16	13	29	31	32	30	30	31	29	31	08	28	31
	YEAR OF OCCURRENCE		2005	1998	2017	2019	1998	2012	2015	2014	2013	2021	2022	2008	APR 2019
	MAXIMUM 3-SECOND														
	SPEED (MPH)	27	46	47	42	50	40	40	33	41	36	45	39	45	50
	DIR. (TENS OF DEGS)		16	17	29	31	02	31	07	31	29	33	27	01	31
	YEAR OF OCCURRENCE		2005	2019	2017	2019	2019	2012	2007	2013	2013	2009	2016	2011	APR 2019
PRECIPITATION	NORMAL (IN)	30	2.16	1.93	1.90	1.04	0.42	0.24	0.03	0.0	0.05	0.56	0.87	1.79	10.99
	MAXIMUM MONTHLY (IN)	73	8.56	6.12	7.24	4.41	2.38	1.93	0.43	0.25	1.19	2.45	3.50	6.73	8.56
	YEAR OF OCCURRENCE		1969	2000	1991	1967	2019	1998	2015	1964	1976	2000	1972	1955	JAN 1969
	MINIMUM MONTHLY (IN)	73	T	T	0.00	T	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	YEAR OF OCCURRENCE		2022	2020	1972	2008	1982	1983	1983	1981	1981	1978	1959	1989	DEC 1989
	MAXIMUM IN 24 HOURS (IN)	73	2.74	1.99	2.43	2.04	1.42	1.80	0.36	0.25	0.97	1.76	1.35	1.82	2.74
	YEAR OF OCCURRENCE		2006	1969	1995	2017	1990	1998	2015	1964	1978	1992	1953	2007	JAN 2006
	NORMAL NO. DAYS WITH:														
	PRECIPITATION >= 0.01	30	7.7	8.5	7.2	4.5	2.7	0.7	0.3	0.1	0.6	2.2	4.7	7.3	46.5
	PRECIPITATION >= 1.00	30	0.1	0.1	0.3	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.2	1.1
SNOWFALL	NORMAL (IN)	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	MAXIMUM MONTHLY (IN)	63	2.2	0.0	T	T	0.0	0.0	T	0.0	0.0	T	0.0	1.2	2.2
	YEAR OF OCCURRENCE		1962	2020	2021	2017	2018	2022	2022	2020	2020	1974		1968	JAN 1962
	MAXIMUM IN 24 HOURS (IN)	63	1.5	T	T	T	T	T	0.0	0.0	0.0	T	0.0	1.2	1.5
	YEAR OF OCCURRENCE'		1962	1994	2021	2017	2015	1995				1974		1968	JAN 1962
	MAXIMUM SNOW DEPTH (IN)	62	0	0	0	0	0	0	0	0	0	0	0	1	1
	YEAR OF OCCURRENCE													1968	DEC 1968
	NORMAL NO. DAYS WITH:														
	SNOWFALL >= 1.0	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

PRECIPITATION (inches) 2022 FRESNO (KFAT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1993	5.18	2.44	1.76	0.20	0.25	1.61	0.00	0.00	0.00	0.12	1.16	1.03	13.75
1994	1.15	1.92	0.52	1.36	1.30	0.00	T	0.00	0.20	0.77	1.57	1.33	10.12
1995	5.42	0.93	5.88	1.08	1.19	0.66	0.01	T	0.00	0.00	T	2.12	17.29
1996	2.07	3.57	1.52	1.17	0.38	0.08	T	0.00	0.00	1.97	1.94	4.27	16.97
1997	3.53	0.17	0.10	T	T	0.01	T	0.00	0.15	0.07	2.66	0.99	7.68
1998	3.40	4.89	3.44	1.26	1.37	1.93	0.00	0.00	0.15	0.16	0.43	0.62	17.65
1999	2.82	1.18	0.49	0.93	0.03	0.20	0.00	0.01	T	T	0.48	0.03	6.17
2000	3.15	6.12	1.35	1.16	0.05	0.56	0.00	T	0.32	2.45	0.01	0.07	15.24
2001	2.66	2.22	0.96	1.87	0.00	0.00	0.08	0.00	T	0.29	1.99	1.95	12.02
2002	0.76	0.40	0.95	0.21	0.38	0.02	0.00	0.00	T	0.00	1.78	2.25	6.75
2003	0.40	1.22	0.63	2.84	0.68	0.00	T	0.04	T	T	0.40	2.93	9.14
2004	0.88	1.69	1.54	0.03	0.07	0.00	0.00	0.00	0.00	2.45	0.81	3.16	10.63
2005	2.42	2.30	2.51	0.56	1.62	0.01	0.00	T	0.04	0.05	0.17	2.00	11.68
2006	3.40	0.54	4.73	3.27	0.36	0.00	T	0.00	0.00	0.08	0.23	1.33	13.94
2007	0.59	2.29	0.97	0.49	0.05	0.00	T	0.02	0.02	0.20	0.09	2.31	7.03
2008	3.32	2.12	0.02	T	0.30	0.00	0.01	0.00	0.00	0.23	1.37	1.09	8.46
2009	1.02	2.43	0.24	0.72	0.46	0.20	0.00	T	0.01	1.39	0.20	2.41	9.08
2010	2.05	2.94	0.96	2.19	0.21	0.00	T	0.00	0.00	0.44	1.80	5.92	16.51
2011	1.71	1.60	3.46	0.32	0.35	1.91	T	0.00	T	0.90	0.67	0.00	10.92
2012	1.38	0.75	2.43	2.02	0.00	T	T	T	0.00	0.25	1.11	2.03	9.97
2013	0.58	0.89	0.65	0.09	0.07	T	T	T	0.01	0.03	0.54	0.15	3.01
2014	0.57	2.11	0.62	0.74	0.04	0.00	0.01	T	0.18	0.50	0.40	2.29	7.46
2015	0.21	1.13	0.06	1.25	0.57	0.01	0.43	0.00	0.12	0.49	1.74	2.97	8.98
2016	4.42	0.33	2.93	1.06	0.29	0.06	0.00	0.00	0.00	0.67	1.38	2.51	13.65
2017	5.50	2.52	1.08	3.42	0.12	0.00	0.00	T	0.16	0.09	0.28	0.04	13.21
2018	1.23	0.26	4.19	0.64	T	0.00	0.00	0.00	0.00	0.10	1.67	0.56	8.65
2019	2.23	3.26	1.26	0.39	2.38	0.00	T	0.00	0.00	0.00	0.72	2.16	12.40
2020	0.66	T	2.32	1.65	0.12	0.00	0.00	T	T	0.00	0.28	1.14	6.17
2021	3.40	0.29	1.33	0.15	0.00	0.00	0.00	0.00	0.00	1.27	0.30	3.64	10.38
2022	T	0.04	0.74	0.30	0.00	T	T	0.05	0.06	0.00	0.66	4.59	6.44
POR= 73 YRS	2.08	1.80	1.81	1.04	0.36	0.14	0.01	0.01	0.14	0.50	1.10	1.70	10.69

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AVERAGE TEMPERATURE (°F) 2022 FRESNO (KFAT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1993	47.1	51.9	60.3	61.7	69.9	75.7	80.2	79.7	75.7	67.8	53.9	45.6	64.1
1994	46.9	49.9	59.3	63.2	68.5	77.7	83.3	82.3	75.4	64.8	48.1	45.3	63.7
1995	51.9	54.1	56.2	60.7	66.2	73.3	80.7	82.6	76.3	66.8	58.7	50.5	64.8
1996	48.3	54.2	57.2	63.6	69.9	77.8	85.4	83.4	74.8	64.1	53.9	49.1	65.1
1997	48.7	50.3	60.0	63.5	75.3	75.8	81.3	80.6	77.3	63.8	56.9	44.7	64.9
1998	49.0	50.0	55.5	59.0	62.0	71.5	82.1	84.1	75.8	63.1	53.1	42.8	62.3
1999	44.7	49.9	53.5	58.5	68.0	75.9	80.6	78.4	77.3	68.7	56.9	47.0	63.3
2000	50.2	53.8	56.5	64.2	71.0	79.8	78.8	81.2	74.5	63.9	49.2	47.8	64.2
2001	46.2	48.7	58.8	58.6	77.3	79.7	81.6	81.9	77.0	68.5	56.4	47.4	65.2
2002	45.0	52.2	55.1	62.8	69.6	78.1	84.1	80.0	77.1	65.2	56.2	49.3	64.6
2003	50.6	51.1	58.1	58.6	69.5	78.4	86.5	81.4	79.2	69.8	52.2	49.3	65.4
2004	46.6	50.5	62.6	65.8	70.9	77.4	83.3	81.3	75.9	64.1	51.7	46.5	64.7
2005	47.4	54.4	57.8	59.6	69.4	73.6	86.8	84.0	73.9	65.9	57.6	51.0	65.1
2006	48.7	52.4	50.1	59.7	71.9	80.7	87.9	80.2	75.8	64.0	55.4	47.1	64.5
2007	43.7	51.4	60.3	63.0	71.5	78.0	83.2	82.8	73.7	64.4	57.4	45.5	64.6
2008	47.0	51.1	57.0	61.7	70.3	79.1	83.8	84.1	78.0	67.1	57.5	44.9	65.1
2009	47.7	51.5	56.0	62.0	75.3	75.7	85.0	81.8	79.7	63.7	54.1	47.2	65.0
2010	48.6	52.2	55.5	57.7	65.2	77.6	83.1	79.9	76.9	68.0	53.8	50.9	64.1
2011	46.6	49.2	55.4	60.7	65.1	75.0	82.0	82.4	80.3	68.0	53.5	45.6	63.7
2012	49.3	52.7	56.2	63.0	72.4	77.9	83.4	86.6	81.4	69.1	58.3	50.9	66.8
2013	47.1	51.0	62.1	67.6	73.0	80.9	87.1	83.0	77.9	66.6	58.5	47.3	66.8
2014	53.2	56.8	62.4	66.8	74.2	80.9	86.9	84.4	80.7	72.0	57.7	51.9	69.0
2015	49.0	57.0	64.0	64.3	68.5	82.0	83.1	82.4	78.7	71.3	52.0	45.8	66.5
2016	50.0	55.5	58.7	65.3	71.3	80.9	84.0	82.5	76.1	66.4	57.6	47.1	66.3
2017	48.1	53.9	58.8	62.1	71.0	80.5	86.5	85.2	77.2	65.7	58.0	48.0	66.3
2018	52.5	53.2	56.8	64.9	70.9	79.4	88.2	83.0	78.0	68.1	57.8	50.0	66.9
2019	52.5	49.2	57.4	67.1	66.7	80.7	84.2	84.8	77.2	65.5	57.9	51.0	66.2
2020	49.0	55.0	56.6	64.1	73.4	79.5	84.6	86.2	79.8	71.6	54.9	48.9	67.0
2021	50.4	54.1	56.3	65.9	73.4	82.6	88.7	85.2	79.6	65.1	57.2	48.1	67.2
2022	50.1	53.8	60.5	64.4	71.5	81.3	85.7	86.7	82.2	71.0	52.1	47.3	67.2
POR= 73 YRS	46.7	51.5	56.0	61.7	69.3	76.7	82.6	80.8	75.7	65.9	54.3	46.4	64.0

HEATING DEGREE DAYS (base 65°F) 2022 FRESNO (KFAT)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1993-94	0	0	0	12	326	595	553	414	168	97	37	0	2202
1994-95	0	0	0	58	500	602	398	298	269	146	60	16	2347
1995-96	0	0	0	30	184	444	513	304	238	99	8	0	1820
1996-97	0	0	0	148	329	486	500	405	169	97	2	0	2136
1997-98	0	0	0	92	246	621	490	412	293	226	104	7	2491
1998-99	0	0	7	79	351	682	619	418	348	227	35	12	2778
1999-00	0	0	0	14	235	550	452	317	259	72	27	3	1929
2000-01	0	0	0	103	466	526	577	451	208	222	0	0	2553
2001-02	0	0	0	23	251	538	610	352	310	109	30	0	2223
2002-03	0	0	0	67	256	477	440	382	216	191	49	0	2078
2003-04	0	0	0	24	378	482	565	413	113	64	3	0	2042
2004-05	0	0	6	124	391	566	537	291	217	158	30	1	2321
2005-06	0	0	0	41	217	424	500	345	456	170	9	0	2162
2006-07	0	0	2	56	283	546	654	373	158	117	19	1	2209
2007-08	0	0	6	59	223	600	552	396	243	149	20	0	2248
2008-09	0	0	0	39	219	616	531	369	274	145	0	0	2193
2009-10	0	0	2	87	322	544	500	352	289	227	62	0	2385
2010-11	0	0	0	40	346	432	563	438	292	138	67	7	2323
2011-12	0	0	0	29	338	595	478	352	268	129	6	2	2197
2012-13	0	0	0	38	205	432	545	386	107	42	4	0	1759
2013-14	0	0	0	32	189	540	361	223	88	68	3	0	1504
2014-15	0	0	0	5	216	401	487	217	83	85	25	0	1519
2015-16	0	0	0	5	385	587	456	268	189	47	10	0	1947
2016-17	0	0	2	23	226	544	514	305	202	94	26	4	1940
2017-18	0	0	4	45	209	523	376	324	258	70	4	0	1813
2018-19	0	0	0	9	209	458	381	433	233	46	57	0	1826
2019-20	0	0	6	51	205	427	489	285	253	111	4	0	1831
2020-21	0	0	0	23	301	493	445	298	269	37	6	0	1872
2021-22	0	0	0	69	226	517	453	308	171	70	29	0	1843
2022-	0	0	0	32	381	542							

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COOLING DEGREE DAYS (base 65°F) 2022 FRESNO (KFAT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1993	0	0	3	20	168	342	476	462	331	105	0	0	1907
1994	0	0	1	52	151	389	576	547	318	59	0	0	2093
1995	0	0	0	25	104	273	494	551	347	91	0	0	1885
1996	0	0	4	66	162	389	640	579	300	125	0	0	2265
1997	0	0	18	61	330	334	514	492	373	61	11	0	2194
1998	0	0	6	50	18	210	536	600	338	25	0	0	1783
1999	0	0	0	39	135	348	487	423	373	135	0	0	1940
2000	0	0	0	54	217	454	434	509	291	81	0	0	2040
2001	0	0	20	37	389	447	521	533	365	137	0	0	2449
2002	0	0	9	50	180	400	599	472	372	81	0	0	2163
2003	0	0	7	5	192	406	671	518	431	180	0	0	2410
2004	0	0	45	97	188	376	576	514	341	99	0	0	2236
2005	0	0	4	2	170	266	682	597	271	79	2	0	2073
2006	0	0	0	20	231	478	715	475	337	31	1	0	2288
2007	0	0	20	64	229	396	569	560	274	50	0	0	2162
2008	0	0	0	54	192	431	592	599	394	114	1	0	2377
2009	0	0	1	62	330	328	628	527	451	53	3	0	2383
2010	0	0	0	15	72	386	563	470	364	144	17	0	2031
2011	0	0	1	18	81	315	535	546	466	128	0	0	2090
2012	0	0	2	77	242	391	577	677	495	172	11	0	2644
2013	0	0	23	124	260	483	691	565	394	85	0	0	2625
2014	0	0	12	132	299	485	687	606	479	230	2	0	2932
2015	0	0	58	70	145	513	568	545	418	205	2	0	2524
2016	0	0	1	63	214	487	598	552	344	73	10	0	2342
2017	0	0	17	13	221	477	674	637	375	72	4	0	2490
2018	0	0	10	78	193	440	729	566	399	112	2	0	2529
2019	0	0	5	114	118	477	605	622	379	72	0	0	2392
2020	0	2	1	93	273	440	614	666	453	236	5	0	2783
2021	0	0	5	72	270	535	744	633	443	80	1	0	2783
2022	0	0	39	59	238	494	649	680	519	227	0	0	2905

SNOWFALL (inches) 2022 FRESNO (KFAT)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1994-95	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	T	T
1995-96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	T
1996-97	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	T
1997-98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	T	0.0	0.0	0.0	T
1998-99	0.0	0.0	0.0	0.0	0.0	0.5	T	T	0.0	0.0	0.0	0.0	0.5
1999-00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	T
2000-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	T
2001-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2002-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2003-04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2004-05	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T
2005-	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	T
2006-07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2007-08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2008-09	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	T
2009-10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	T
2010-11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T
2011-12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2012-13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2013-	0.0	0.0	0.0	0.0	0.0	0.0							
2013-14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2014-15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	T
2015-16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2016-17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	T
2017-18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2018-19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2019-20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2020-21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T
2021-22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2022-	0.0	0.0	0.0	0.0	0.0	0.0							
POR= 73 YRS	0.0	0.0	0.0	T	0.0	T	T	T	T	T	T	T	T

WBAN : 93193

REFERENCE NOTES :

PAGE 1:
THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).
PAGE 2 AND 3:
H/C INDICATES HEATING AND COOLING DEGREE DAYS.
RH INDICATES RELATIVE HUMIDITY
W/O INDICATES WEATHER AND OBSTRUCTIONS
S INDICATES SUNSHINE.
PR INDICATES PRESSURE.
CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).
GENERAL:
T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE.
+ INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES.
BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA.
ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM.
PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH.
POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING.
WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED.
0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05.
CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET
CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS.
GENERAL CONTINUED:
WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH.
RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION.
AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2.
SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN PRECIPITATION, INCLUDING HAIL.
A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65 F.
DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR.
DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY.
WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY.
ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.
STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED SATION HISTORY INFORMATION GO TO "Historical Observing Metadata Repository", URL IS:
http://www.ncdc.noaa.gov/homr/
SNOWFALL STOPPED MONTH & YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.

NOTE:

The "Period of Record:(POR)" for all "averages" is based on "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.

2022
FRESNO
CALIFORNIA (KFAT)

Fresno is located about midway and toward the eastern edge of the San Joaquin Valley, which is oriented northwest to southeast and has a length of about 225 miles and an average width of 50 miles. The San Joaquin Valley is generally flat. About 15 miles east of Fresno the terrain slopes upward with the foothills of the Sierra Nevada. The Sierra Nevada attain an elevation of more than 14,000 feet 50 miles east of Fresno. West of the city 45 miles lie the foothills of the Coastal Range.

The climate of Fresno is dry and mild in winter and hot in summer. Nearly nine-tenths of the annual precipitation falls in the six months from November to April.

Due to clear skies during the summer and the protection of the San Joaquin Valley from marine effects, the normal daily maximum temperature reaches the high 90s during the latter part of July. The daily maximum temperature during the warmest month has ranged from 76 to ll5 degrees. Low relative humidities and some wind movement substantially lower the sensible temperature during periods of high readings. Humidity readings of 15 percent are common on summer afternoons, and readings as low as 8 percent have been recorded. In contrast to this, humidity readings average 90 percent during the morning hours of December and January.

Winds flow with the major axis of the San Joaquin Valley, generally from the northwest. This feature is especially beneficial since, during the warmest months, the northwest winds increase during the evenings. These refreshing breezes and the normally large temperature variation of about 35 degrees between the highest and lowest readings of the day, generally result in comfortable evening and night temperatures.

Winter temperatures are usually mild with infrequent cold spells dropping the readings below freezing. Heavy frost occurs almost every year, and the first frost usually occurs during the last week of November. The last frost in spring is usually in early March, however, one year in five will have the last frost after the first of April. The growing season is 291 days.

Although the heaviest rains recorded at Fresno for short periods have occurred in June, usually any rainfall during the summer is very light. Snow is a rare occurrence in Fresno.

Fresno enjoys a very high percentage of sunshine, receiving more than 80 percent of the possible amounts during all but the four months of November, December, January, and February. Reduction of sunshine during these months is caused by fog and short periods of stormy weather.

During foggy periods, at times lasting nearly two weeks, sunshine is reduced to a minimum. This fog frequently lifts to a few hundred feet above the surface of the valley and presents the appearance of a heavy, solid cloud layer.

Spring and autumn are very enjoyable seasons in Fresno, with clear skies, light rainfall and winds and mild temperatures.

Station History

FRESNO, CA

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
FRESNO AIR TERMINAL	1948-01-01	1949-08-20	36° 46'	-119° 42'	338		AIRWAYS
FRESNO AIR TERMINAL	1949-08-20	1949-08-31	36° 46'	-119° 42'	338	7 MI ENE	AIRWAYS,COOP,USHCN
FRESNO AIR TERMINAL	1949-08-31	1961-01-01	36° 46'	-119° 42'	338		AIRWAYS,COOP,USHCN
FRESNO AIR TERMINAL	1961-01-01	1961-09-01	36° 46'	-119° 43'	328		AIRWAYS,COOP,USHCN
FRESNO AIR TERMINAL	1961-09-01	1978-01-01	36° 46'	-119° 43'	328	.9 MI W	AIRWAYS,COOP,USHCN
FRESNO AIR TERMINAL	1978-01-01	1985-02-01	36° 46'	-119° 43'	328		COOP,USHCN,WXSVC
FRESNO AIR TERMINAL	1985-02-01	1993-11-10	36° 46'	-119° 43'	336	1 MI NNE	COOP,USHCN,WXSVC
FRESNO AIR TERMINAL	1993-11-10	1995-09-01	36° 46'	-119° 43'	336		COOP,USHCN,WXSVC
FRESNO YOSEMITE INTL AP	1995-09-01	1995-11-15	36° 46'	-119° 43'	333	.5 MI WSW	ASOS,COOP,USHCN
FRESNO YOSEMITE INTL AP	1995-11-15	2010-06-24	36° 46'	-119° 43'	333		ASOS,COOP,USHCN
FRESNO YOSEMITE INTL AP	2010-06-24	2016-08-22	36° 46'	-119° 43'	333		ASOS,COOP,USHCN
FRESNO YOSEMITE INT'L	2016-08-22	2017-10-01	36° 46'	-119° 43'	333		ASOS,COOP,USHCN
FRESNO YOSEMITE INT'L	2017-10-01	2019-12-19	36° 46'	-119° 43'	333		ASOS,COOP,PLCD,USHCN
FRESNO YOSEMITE INT'L	2019-12-19	2021-11-22	36° 46'	-119° 43'	333		ASOS,COOP,PLCD,USHCN
FRESNO YOSEMITE INT'L	2021-11-22	Present	36° 46'	-119° 43'	334.29		ASOS,COOP,PLCD,USHCN

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	1947-10-01	1969-04-01	DAILY	2400	UNIV	RCRD	
TEMP	1947-10-01	1969-04-01	DAILY	2400			
MAX/MINTEM	1969-04-01	1982-01-01	DAILY	0800	PALMER		
MAX/MINTEM	1969-04-01	1982-01-01	DAILY	0800	PALMER		
PRECIP	1969-04-01	1982-01-01	DAILY	2400	UNIV	RCRD	
TEMP	1969-04-01	1982-01-01	DAILY	2400			
MAX/MINTEM	1982-01-01	1985-02-01	DAILY	0800	PALMER		
MAX/MINTEM	1982-01-01	1985-02-01	DAILY	0800	PALMER		
PRECIP	1982-01-01	1985-02-01	HOURLY	2400			
PRECIP	1982-01-01	1985-02-01	DAILY	2400	UNIV	RCRD	
TEMP	1982-01-01	1985-02-01	DAILY	2400			
PRECIP	1985-02-01	1995-07-01	DAILY	2400	UNIV	RCRD	
PRECIP	1985-02-01	1995-07-01	HOURLY	2400			
TEMP	1985-02-01	1995-07-01	DAILY	2400	MXMN		
PRECIP	1995-07-01	1995-09-01	DAILY	2400	UNIV	RCRD	
PRECIP	1995-07-01	1995-09-01	HOURLY	2400	UNIV	RCRD	
TEMP	1995-07-01	1995-09-01	DAILY	2400	MXMN		
PRECIP	1995-09-01	2001-06-04	HOURLY	2400	TB	RCRD	
PRECIP	1995-09-01	2001-06-04	DAILY	2400	TB	RCRD	
TEMP	1995-09-01	2001-06-04	DAILY	2400	HYGR		
WIND	1995-09-01	2001-06-04	HOURLY	UNKN	ANEMCUP		
PRECIP	2001-06-04	2007-04-03	HOURLY	2400	AHTB	RCRD;HTD	
PRECIP	2001-06-04	2007-04-03	DAILY	2400	AHTB	RCRD;HTD	
TEMP	2001-06-04	2007-04-03	DAILY	2400	ATEMP		
WIND	2001-06-04	2007-04-03	HOURLY	UNKN	ANEMCUP		
PRECIP	2007-04-03	2010-06-24	HOURLY	2400	AHTB	RCRD;HTD	
PRECIP	2007-04-03	2010-06-24	DAILY	2400	AHTB	RCRD;HTD	
TEMP	2007-04-03	2010-06-24	DAILY	2400	ATEMP		
WIND	2007-04-03	2010-06-24	HOURLY	UNKN	ANEMSONIC		
PRECIP	2010-06-24	2016-08-22	HOURLY	VAR	AWPAG	RCRD;HTD	
TEMP	2010-06-24	2016-08-22	DAILY	1700	ATEMP		
PRECIP	2010-06-24	2019-12-19	DAILY	2400	PCPNX		
PRECIP	2010-06-24	2019-12-19	HOURLY	2400	AWPAG	RCRD;HTD	
TEMP	2010-06-24	2019-12-19	DAILY	2400	ATEMP		
WIND	2010-06-24	2019-12-19	HOURLY	UNKN	ANEMSONIC		
PRECIP	2019-12-19	Present	HOURLY	2400	AWPAG	RCRD;HTD	
PRECIP	2019-12-19	Present	DAILY	2400	AWPAG	RCRD;HTD	
TEMP	2019-12-19	Present	DAILY	2400	ATEMP		
WIND	2019-12-19	Present	HOURLY	UNKN	ANEMSONIC		

* For explanation of codes and abbrevitions see Station Metadata link below.

Other Station Information can be found at:
ASOS Implementation by NWS: http://www.nws.noaa.gov/ops2/Surface/asosimplementation.htm
Station Metadata website: http://www.ncdc.noaa.gov/homr

INQUIRES/COMMENTS CALL: (828) 271-4800, option 2
Fax Number : (828) 271-4876
TDD : (828) 271-4010
Email : ncdc.orders@noaa.gov

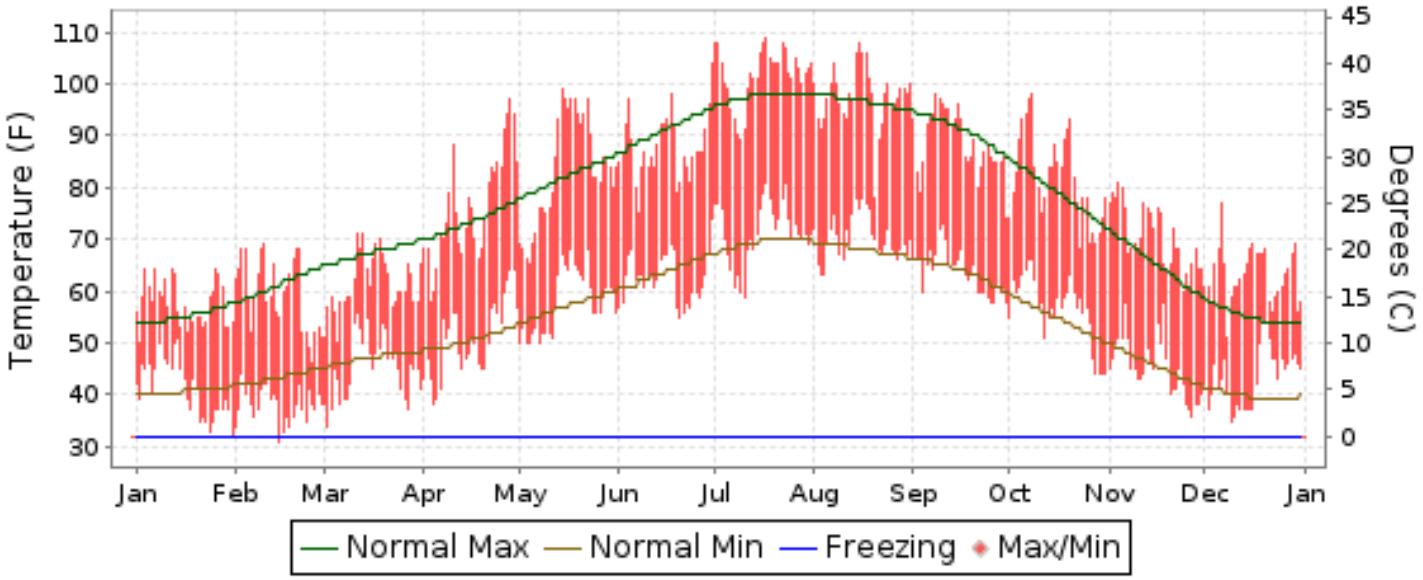
NOAA/National Centers for Environmental Information
Attn: User Engagement & Services Branch
151 Patton Avenue
Asheville, NC 28801-5001

2023
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA

ISSN 0198-0890

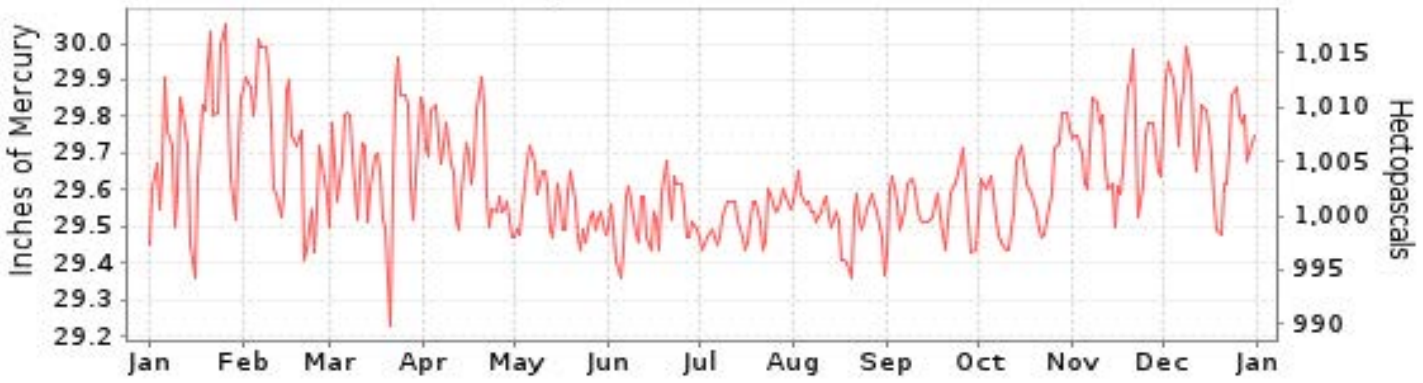
FRESNO,
CALIFORNIA (KFAT)

Daily Max/Min Temperature



Daily Precipitation

Daily Station Pressure



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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CENTERS for ENVIRONMENTAL INFORMATION (NCEI) ASHEVILLE, NORTH CAROLINA

DIRECTOR NCEI

METEOROLOGICAL DATA FOR 2023
FRESNO (KFAT)

LATITUDE: 36° 46'N **LONGITUDE:** 119° 43'W **ELEVATION (FT):** GRND: 334.29 BARO: 375 **TIME ZONE:** PACIFIC (UTC -8) **WBAN:** 93193

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	MEAN DAILY MAXIMUM	57.7	59.5	61.5	76.4	83.4	87.8	101.8	97.5	88.7	81.8	70.4	63.0	77.5
	HIGHEST DAILY MAXIMUM	64	69	71	97	99	104	109	108	98	98	81	77	109
	DATE OF OCCURRENCE	26+	10	13+	28	14	30	17	15	08	08	04	06	JUL 17
	MEAN DAILY MINIMUM	41.5	38.1	45.2	51.0	58.0	62.5	71.4	70.2	63.8	56.6	45.3	43.3	53.9
	LOWEST DAILY MINIMUM	32	31	34	38	50	55	59	63	58	44	36	35	31
	DATE OF OCCURRENCE	31	15	02	04	07+	20	10	04+	30+	31+	27	09	FEB 15
	AVERAGE DRY BULB	49.6	48.8	53.4	63.7	70.7	75.1	86.6	83.8	76.3	69.2	57.8	53.2	65.7
	MEAN WET BULB	46.3	43.0	47.9	53.1	58.5	61.4	66.0	66.7	62.4	57.1	48.5	47.3	54.9
	MEAN DEW POINT	42.9	36.5	42.5	43.3	48.7	51.3	52.7	56.2	53.3	47.9	39.7	41.9	46.4
	NUMBER OF DAYS WITH:													
	MAXIMUM >= 90°	0	0	0	4	11	10	30	29	13	6	0	0	103
	MAXIMUM <= 32°	0	0	0	0	0	0	0	0	0	0	0	0	0
	MINIMUM <= 32°	1	1	0	0	0	0	0	0	0	0	0	0	2
	MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0
H/C	HEATING DEGREE DAYS	469	446	350	123	35	0	0	0	0	35	211	359	2028
	COOLING DEGREE DAYS	0	0	0	92	218	309	676	592	347	175	4	0	2413
RH	MEAN (PERCENT)	80	68	70	51	50	46	34	43	48	51	56	71	56
	HOUR 04 LST	90	84	86	74	71	67	54	63	68	70	73	83	74
	HOUR 10 LST	74	59	62	42	42	39	28	36	42	42	45	64	48
	HOUR 16 LST	66	47	54	32	30	28	18	24	30	31	39	56	38
	HOUR 22 LST	88	77	76	55	56	50	39	48	53	59	66	77	62
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG(VISBY <= 1/4 MI)	2	1	0	0	0	0	0	0	0	0	0	0	3
	THUNDERSTORMS	0	0	3	0	0	1	0	1	2	0	0	0	7
PR	MEAN STATION PRESS. (IN.)	29.72	29.73	29.67	29.66	29.55	29.52	29.52	29.52	29.55	29.59	29.72	29.77	29.63
	MEAN SEA-LEVEL PRESS. (IN.)	30.08	30.09	30.03	30.01	29.90	29.87	29.86	29.87	29.90	29.94	30.07	30.12	29.98
WINDS	RESULTANT SPEED (MPH)	2.5	0.8	1.2	5.8	6.5	6.9	5.4	3.2	5.1	2.0	0.4	0.3	2.6
	RES. DIR. (TENS OF DEGS.)	13	13	14	31	31	31	31	30	31	31	34	04	31
	MEAN SPEED (MPH)	5.6	5.8	7.5	7.5	8.4	8.1	7.3	6.6	6.4	4.3	3.4	3.3	6.2
	PREVAIL.DIR.(TENS OF DEGS.)	13	12	13	31	31	31	31	31	31	32	31	12	31
	MAXIMUM 2-MINUTE WIND													
	SPEED (MPH)	35	39	35	33	21	23	18	38	23	22	23	22	39
	DIR. (TENS OF DEGS.)	13	28	17	31	31	30	31	16	31	31	32	31	28
	DATE OF OCCURRENCE	04	21	21	03	17	18	03	19	01	11	19	06	FEB 21
	MAXIMUM 3-SECOND WIND:													
	SPEED (MPH)	42	54	42	40	27	27	24	49	28	32	33	27	54
	DIR. (TENS OF DEGS.)	14	30	18	31	21	31	31	16	30	33	32	32	30
	DATE OF OCCURRENCE	04	21	21	03	14	18	02	19	29	11	19	06	FEB 21
PRECIPITATION	WATER EQUIVALENT:	3.95	4.26	4.00	0.00	0.35	T	0.00	0.19	T	T	0.21	0.68	13.64
	TOTAL (IN.)	1.55	2.81	1.30	0.00	0.33	T	0.00	0.14	T	T	0.10	0.45	2.81
	GREATEST 24-HOUR (IN.)	08-09	24-25	09-10		04	05		20-21	30+	22	18	20-21	FEB 24-25
	DATE OF OCCURRENCE													
	NUMBER OF DAYS WITH:	11	8	13	0	2	0	0	4	0	0	3	4	45
	PRECIPITATION 0.01	9	6	10	0	1	0	0	1	0	0	1	2	30
	PRECIPITATION 0.10	1	1	0	0	0	0	0	0	0	0	0	0	2
	PRECIPITATION 1.00													
SNOWFALL	SNOW,ICE PELLETS,HAIL	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T
	TOTAL (IN.)	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T
	GREATEST 24-HOUR (IN.)		22											FEB 22
	DATE OF OCCURRENCE	0	0	0	0	0	0	0	0	0	0	0	0	0
	MAXIMUM SNOW DEPTH (IN.)													
	DATE OF OCCURRENCE													
	NUMBER OF DAYS WITH:	0	0	0	0	0	0	0	0	0	0	0	0	0
	SNOWFALL >= 1.0													

NORMALS, MEANS, AND EXTREMES
FRESNO (KFAT)

LATITUDE: 36° 46'N **LONGITUDE:** 119° 43'W **ELEVATION (FT):** GRND: 334.29 BARO: 375 **TIME ZONE:** PACIFIC (UTC -8) **WBAN:** 93193

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	55.4	61.3	67.5	73.7	82.7	91.4	97.7	96.5	90.7	78.7	64.9	55.3	76.3
	MEAN DAILY MAXIMUM	74	55.3	62.0	67.5	74.8	83.6	92.0	98.6	96.8	91.0	79.9	65.6	55.2	76.9
	HIGHEST DAILY MAXIMUM	74	78	83	91	100	107	111	114	112	114	102	90	77	114
	YEAR OF OCCURRENCE		2014	2020	2015	1981	1984	2021	2021	2020	2022	1980	2010	2023	SEP 2022
	MEAN OF EXTREME MAXS.	74	67.6	73.5	80.7	90.4	98.9	105.3	107.4	105.9	102.6	93.6	79.7	67.4	89.4
	NORMAL DAILY MINIMUM	30	40.6	43.3	47.3	50.9	57.6	63.9	69.3	67.9	63.4	54.6	45.4	39.8	53.7
	MEAN DAILY MINIMUM	74	38.2	41.0	44.4	48.6	54.9	61.3	66.6	64.9	60.5	51.9	43.0	37.8	51.1
	LOWEST DAILY MINIMUM	74	19	24	26	32	36	44	50	49	37	27	26	18	18
	YEAR OF OCCURRENCE		1963	1990	1966	1982	1975	1955	1955	1966	1950	1972	1975	1990	DEC 1990
	MEAN OF EXTREME MINS.	74	28.6	31.8	35.0	39.3	45.3	51.6	57.9	57.4	51.6	42.0	33.2	28.6	41.9
	NORMAL DRY BULB	30	48.0	52.3	57.4	62.3	70.2	77.6	83.5	82.2	77.1	66.7	55.1	47.5	65.0
	MEAN DRY BULB	74	46.8	51.5	55.9	61.7	69.3	76.7	82.6	80.9	75.7	65.9	54.3	46.5	64.0
	MEAN WET BULB	40	42.5	44.5	47.2	48.6	51.5	55.3	59.1	58.9	56.2	51.8	46.1	41.5	50.3
	MEAN DEW POINT	40	42.9	44.7	47.5	48.3	51.1	55.3	59.1	58.6	56.2	51.3	45.9	41.7	50.2
	NORMAL NO. DAYS WITH:														
	MAXIMUM >= 90	30	0.0	0.0	0.1	2.0	8.8	20.2	29.5	28.8	19.9	3.8	0.0	0.0	113.1
	MAXIMUM <= 32	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	MINIMUM <= 32	30	4.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	4.9	10.7
	MINIMUM <= 0	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
H/C	NORMAL HEATING DEG. DAYS	30	527	356	242	129	32	3	0	0	2	57	299	541	2188
	NORMAL COOLING DEG. DAYS	30	0	0	6	48	191	382	573	533	364	108	3	0	2208
RH	NORMAL (PERCENT)		84	77	70	57	48	43	40	44	49	58	74	83	61
	HOUR 04 LST	30	92	90	87	80	71	65	62	66	71	78	88	92	79
	HOUR 10 LST	30	85	77	66	51	44	39	38	41	45	52	71	83	58
	HOUR 16 LST	30	69	57	49	35	28	24	22	25	28	35	53	67	41
	HOUR 22 LST	30	89	83	76	62	51	44	42	46	51	63	81	88	65
S	PERCENT POSSIBLE SUNSHINE	46	47	65	77	85	90	95	97	96	94	88	66	46	79
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	60	9.8	4.2	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.5	4.4	9.4	29.7
	THUNDERSTORMS	74	0.2	0.4	0.8	0.6	0.6	0.4	0.2	0.3	0.5	0.5	0.2	0.3	5.0
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)														
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH:														
	CLEAR														
	PARTLY CLOUDY														
	CLOUDY														
PR	MEAN STATION PRESSURE(IN)	40	29.80	29.74	29.70	29.65	29.58	29.52	29.53	29.52	29.53	29.63	29.74	29.77	29.64
	MEAN SEA-LEVEL PRES. (IN)	40	30.16	30.09	30.05	30.00	29.92	29.87	29.86	29.86	29.88	29.97	30.09	30.15	29.99
WINDS	MEAN SPEED (MPH)	40	4.1	5.0	5.9	7.3	8.3	8.4	7.5	6.9	6.0	4.6	3.9	4.0	6.0
	PREVAIL.DIR(TENS OF DEGS)	48	12	12	32	32	31	31	31	31	31	31	31	12	31
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	28	38	39	36	40	32	33	24	38	31	35	35	35	40
	DIR. (TENS OF DEGS)		16	28	29	31	32	30	30	16	29	31	08	28	31
	YEAR OF OCCURRENCE		2005	2023	2017	2019	1998	2012	2015	2023	2013	2021	2022	2008	APR 2019
	MAXIMUM 3-SECOND														
	SPEED (MPH)	28	46	54	42	50	40	40	33	49	36	45	39	45	54
	DIR. (TENS OF DEGS)		16	30	18	31	02	31	07	16	29	33	27	01	30
	YEAR OF OCCURRENCE		2005	2023	2023	2019	2019	2012	2007	2023	2013	2009	2016	2011	FEB 2023
PRECIPITATION	NORMAL (IN)	30	2.16	1.93	1.90	1.04	0.42	0.24	0.03	0.0	0.05	0.56	0.87	1.79	10.99
	MAXIMUM MONTHLY (IN)	74	8.56	6.12	7.24	4.41	2.38	1.93	0.43	0.25	1.19	2.45	3.50	6.73	8.56
	YEAR OF OCCURRENCE		1969	2000	1991	1967	2019	1998	2015	1964	1976	2000	1972	1955	JAN 1969
	MINIMUM MONTHLY (IN)	74	T	T	0.00	T	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	YEAR OF OCCURRENCE		2022	2020	1972	2008	1982	1983	1983	1981	1981	1978	1959	1989	DEC 1989
	MAXIMUM IN 24 HOURS (IN)	74	2.74	2.81	2.43	2.04	1.42	1.80	0.36	0.25	0.97	1.76	1.35	1.82	2.81
	YEAR OF OCCURRENCE		2006	2023	1995	2017	1990	1998	2015	1964	1978	1992	1953	2007	FEB 2023
	NORMAL NO. DAYS WITH:														
	PRECIPITATION >= 0.01	30	7.7	8.5	7.2	4.5	2.7	0.7	0.3	0.1	0.6	2.2	4.7	7.3	46.5
	PRECIPITATION >= 1.00	30	0.1	0.1	0.3	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.2	1.1
SNOWFALL	NORMAL (IN)	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	MAXIMUM MONTHLY (IN)	64	2.2	T	T	T	0.0	T	T	0.0	T	0.0	0.0	1.2	2.2
	YEAR OF OCCURRENCE		1962	2023	2021	2017	2018	2023	2022	2020	2023	2023		1968	JAN 1962
	MAXIMUM IN 24 HOURS (IN)	64	1.5	T	T	T	T	T	0.0	0.0	0.0	T	0.0	1.2	1.5
	YEAR OF OCCURRENCE'		1962	2023	2021	2017	2015	1995				1974		1968	JAN 1962
	MAXIMUM SNOW DEPTH (IN)	63	0	0	0	0	0	0	0	0	0	0	0	1	1
	YEAR OF OCCURRENCE													1968	DEC 1968
	NORMAL NO. DAYS WITH:														
	SNOWFALL >= 1.0	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

PRECIPITATION (inches) 2023 FRESNO (KFAT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1994	1.15	1.92	0.52	1.36	1.30	0.00	T	0.00	0.20	0.77	1.57	1.33	10.12
1995	5.42	0.93	5.88	1.08	1.19	0.66	0.01	T	0.00	0.00	T	2.12	17.29
1996	2.07	3.57	1.52	1.17	0.38	0.08	T	0.00	0.00	1.97	1.94	4.27	16.97
1997	3.53	0.17	0.10	T	T	0.01	T	0.00	0.15	0.07	2.66	0.99	7.68
1998	3.40	4.89	3.44	1.26	1.37	1.93	0.00	0.00	0.15	0.16	0.43	0.62	17.65
1999	2.82	1.18	0.49	0.93	0.03	0.20	0.00	0.01	T	T	0.48	0.03	6.17
2000	3.15	6.12	1.35	1.16	0.05	0.56	0.00	T	0.32	2.45	0.01	0.07	15.24
2001	2.66	2.22	0.96	1.87	0.00	0.00	0.08	0.00	T	0.29	1.99	1.95	12.02
2002	0.76	0.40	0.95	0.21	0.38	0.02	0.00	0.00	T	0.00	1.78	2.25	6.75
2003	0.40	1.22	0.63	2.84	0.68	0.00	T	0.04	T	T	0.40	2.93	9.14
2004	0.88	1.69	1.54	0.03	0.07	0.00	0.00	0.00	0.00	2.45	0.81	3.16	10.63
2005	2.42	2.30	2.51	0.56	1.62	0.01	0.00	T	0.04	0.05	0.17	2.00	11.68
2006	3.40	0.54	4.73	3.27	0.36	0.00	T	0.00	0.00	0.08	0.23	1.33	13.94
2007	0.59	2.29	0.97	0.49	0.05	0.00	T	0.02	0.02	0.20	0.09	2.31	7.03
2008	3.32	2.12	0.02	T	0.30	0.00	0.01	0.00	0.00	0.23	1.37	1.09	8.46
2009	1.02	2.43	0.24	0.72	0.46	0.20	0.00	T	0.01	1.39	0.20	2.41	9.08
2010	2.05	2.94	0.96	2.19	0.21	0.00	T	0.00	0.00	0.44	1.80	5.92	16.51
2011	1.71	1.60	3.46	0.32	0.35	1.91	T	0.00	T	0.90	0.67	0.00	10.92
2012	1.38	0.75	2.43	2.02	0.00	T	T	T	0.00	0.25	1.11	2.03	9.97
2013	0.58	0.89	0.65	0.09	0.07	T	T	T	0.01	0.03	0.54	0.15	3.01
2014	0.57	2.11	0.62	0.74	0.04	0.00	0.01	T	0.18	0.50	0.40	2.29	7.46
2015	0.21	1.13	0.06	1.25	0.57	0.01	0.43	0.00	0.12	0.49	1.74	2.97	8.98
2016	4.42	0.33	2.93	1.06	0.29	0.06	0.00	0.00	0.00	0.67	1.38	2.51	13.65
2017	5.50	2.52	1.08	3.42	0.12	0.00	0.00	T	0.16	0.09	0.28	0.04	13.21
2018	1.23	0.26	4.19	0.64	T	0.00	0.00	0.00	0.00	0.10	1.67	0.56	8.65
2019	2.23	3.26	1.26	0.39	2.38	0.00	T	0.00	0.00	0.00	0.72	2.16	12.40
2020	0.66	T	2.32	1.65	0.12	0.00	0.00	T	T	0.00	0.28	1.14	6.17
2021	3.40	0.29	1.33	0.15	0.00	0.00	0.00	0.00	0.00	1.27	0.30	3.64	10.38
2022	T	0.04	0.74	0.30	0.00	T	T	0.05	0.06	0.00	0.66	4.59	6.44
2023	3.95	4.26	4.00	0.00	0.35	T	0.00	0.19	T	T	0.21	0.68	13.64
POR= 74 YRS	2.11	1.83	1.84	1.02	0.36	0.14	0.01	0.01	0.14	0.49	1.08	1.69	10.72

WBAN : 93193

AVERAGE TEMPERATURE (°F) 2023 FRESNO (KFAT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1994	46.9	49.9	59.3	63.2	68.5	77.7	83.3	82.3	75.4	64.8	48.1	45.3	63.7
1995	51.9	54.1	56.2	60.7	66.2	73.3	80.7	82.6	76.3	66.8	58.7	50.5	64.8
1996	48.3	54.2	57.2	63.6	69.9	77.8	85.4	83.4	74.8	64.1	53.9	49.1	65.1
1997	48.7	50.3	60.0	63.5	75.3	75.8	81.3	80.6	77.3	63.8	56.9	44.7	64.9
1998	49.0	50.0	55.5	59.0	62.0	71.5	82.1	84.1	75.8	63.1	53.1	42.8	62.3
1999	44.7	49.9	53.5	58.5	68.0	75.9	80.6	78.4	77.3	68.7	56.9	47.0	63.3
2000	50.2	53.8	56.5	64.2	71.0	79.8	78.8	81.2	74.5	63.9	49.2	47.8	64.2
2001	46.2	48.7	58.8	58.6	77.3	79.7	81.6	81.9	77.0	68.5	56.4	47.4	65.2
2002	45.0	52.2	55.1	62.8	69.6	78.1	84.1	80.0	77.1	65.2	56.2	49.3	64.6
2003	50.6	51.1	58.1	58.6	69.5	78.4	86.5	81.4	79.2	69.8	52.2	49.3	65.4
2004	46.6	50.5	62.6	65.8	70.9	77.4	83.3	81.3	75.9	64.1	51.7	46.5	64.7
2005	47.4	54.4	57.8	59.6	69.4	73.6	86.8	84.0	73.9	65.9	57.6	51.0	65.1
2006	48.7	52.4	50.1	59.7	71.9	80.7	87.9	80.2	75.8	64.0	55.4	47.1	64.5
2007	43.7	51.4	60.3	63.0	71.5	78.0	83.2	82.8	73.7	64.4	57.4	45.5	64.6
2008	47.0	51.1	57.0	61.7	70.3	79.1	83.8	84.1	78.0	67.1	57.5	44.9	65.1
2009	47.7	51.5	56.0	62.0	75.3	75.7	85.0	81.8	79.7	63.7	54.1	47.2	65.0
2010	48.6	52.2	55.5	57.7	65.2	77.6	83.1	79.9	76.9	68.0	53.8	50.9	64.1
2011	46.6	49.2	55.4	60.7	65.1	75.0	82.0	82.4	80.3	68.0	53.5	45.6	63.7
2012	49.3	52.7	56.2	63.0	72.4	77.9	83.4	86.6	81.4	69.1	58.3	50.9	66.8
2013	47.1	51.0	62.1	67.6	73.0	80.9	87.1	83.0	77.9	66.6	58.5	47.3	66.8
2014	53.2	56.8	62.4	66.8	74.2	80.9	86.9	84.4	80.7	72.0	57.7	51.9	69.0
2015	49.0	57.0	64.0	64.3	68.5	82.0	83.1	82.4	78.7	71.3	52.0	45.8	66.5
2016	50.0	55.5	58.7	65.3	71.3	80.9	84.0	82.5	76.1	66.4	57.6	47.1	66.3
2017	48.1	53.9	58.8	62.1	71.0	80.5	86.5	85.2	77.2	65.7	58.0	48.0	66.3
2018	52.5	53.2	56.8	64.9	70.9	79.4	88.2	83.0	78.0	68.1	57.8	50.0	66.9
2019	52.5	49.2	57.4	67.1	66.7	80.7	84.2	84.8	77.2	65.5	57.9	51.0	66.2
2020	49.0	55.0	56.6	64.1	73.4	79.5	84.6	86.2	79.8	71.6	54.9	48.9	67.0
2021	50.4	54.1	56.3	65.9	73.4	82.6	88.7	85.2	79.6	65.1	57.2	48.1	67.2
2022	50.1	53.8	60.5	64.4	71.5	81.3	85.7	86.7	82.2	71.0	52.1	47.3	67.2
2023	49.6	48.8	53.4	63.7	70.7	75.1	86.6	83.8	76.3	69.2	57.8	53.2	65.7
POR= 74 YRS	46.8	51.5	55.9	61.7	69.3	76.7	82.6	80.9	75.7	65.9	54.3	46.5	64.0

HEATING DEGREE DAYS (base 65°F) 2023 FRESNO (KFAT)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1994-95	0	0	0	58	500	602	398	298	269	146	60	16	2347
1995-96	0	0	0	30	184	444	513	304	238	99	8	0	1820
1996-97	0	0	0	148	329	486	500	405	169	97	2	0	2136
1997-98	0	0	0	92	246	621	490	412	293	226	104	7	2491
1998-99	0	0	7	79	351	682	619	418	348	227	35	12	2778
1999-00	0	0	0	14	235	550	452	317	259	72	27	3	1929
2000-01	0	0	0	103	466	526	577	451	208	222	0	0	2553
2001-02	0	0	0	23	251	538	610	352	310	109	30	0	2223
2002-03	0	0	0	67	256	477	440	382	216	191	49	0	2078
2003-04	0	0	0	24	378	482	565	413	113	64	3	0	2042
2004-05	0	0	6	124	391	566	537	291	217	158	30	1	2321
2005-06	0	0	0	41	217	424	500	345	456	170	9	0	2162
2006-07	0	0	2	56	283	546	654	373	158	117	19	1	2209
2007-08	0	0	6	59	223	600	552	396	243	149	20	0	2248
2008-09	0	0	0	39	219	616	531	369	274	145	0	0	2193
2009-10	0	0	2	87	322	544	500	352	289	227	62	0	2385
2010-11	0	0	0	40	346	432	563	438	292	138	67	7	2323
2011-12	0	0	0	29	338	595	478	352	268	129	6	2	2197
2012-13	0	0	0	38	205	432	545	386	107	42	4	0	1759
2013-14	0	0	0	32	189	540	361	223	88	68	3	0	1504
2014-15	0	0	0	5	216	401	487	217	83	85	25	0	1519
2015-16	0	0	0	5	385	587	456	268	189	47	10	0	1947
2016-17	0	0	2	23	226	544	514	305	202	94	26	4	1940
2017-18	0	0	4	45	209	523	376	324	258	70	4	0	1813
2018-19	0	0	0	9	209	458	381	433	233	46	57	0	1826
2019-20	0	0	6	51	205	427	489	285	253	111	4	0	1831
2020-21	0	0	0	23	301	493	445	298	269	37	6	0	1872
2021-22	0	0	0	69	226	517	453	308	171	70	29	0	1843
2022-23	0	0	0	32	381	542	469	446	350	123	35	0	2378
2023-	0	0	0	35	211	359							

WBAN : 93193

COOLING DEGREE DAYS (base 65°F) 2023 FRESNO (KFAT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1994	0	0	1	52	151	389	576	547	318	59	0	0	2093
1995	0	0	0	25	104	273	494	551	347	91	0	0	1885
1996	0	0	4	66	162	389	640	579	300	125	0	0	2265
1997	0	0	18	61	330	334	514	492	373	61	11	0	2194
1998	0	0	6	50	18	210	536	600	338	25	0	0	1783
1999	0	0	0	39	135	348	487	423	373	135	0	0	1940
2000	0	0	0	54	217	454	434	509	291	81	0	0	2040
2001	0	0	20	37	389	447	521	533	365	137	0	0	2449
2002	0	0	9	50	180	400	599	472	372	81	0	0	2163
2003	0	0	7	5	192	406	671	518	431	180	0	0	2410
2004	0	0	45	97	188	376	576	514	341	99	0	0	2236
2005	0	0	4	2	170	266	682	597	271	79	2	0	2073
2006	0	0	0	20	231	478	715	475	337	31	1	0	2288
2007	0	0	20	64	229	396	569	560	274	50	0	0	2162
2008	0	0	0	54	192	431	592	599	394	114	1	0	2377
2009	0	0	1	62	330	328	628	527	451	53	3	0	2383
2010	0	0	0	15	72	386	563	470	364	144	17	0	2031
2011	0	0	1	18	81	315	535	546	466	128	0	0	2090
2012	0	0	2	77	242	391	577	677	495	172	11	0	2644
2013	0	0	23	124	260	483	691	565	394	85	0	0	2625
2014	0	0	12	132	299	485	687	606	479	230	2	0	2932
2015	0	0	58	70	145	513	568	545	418	205	2	0	2524
2016	0	0	1	63	214	487	598	552	344	73	10	0	2342
2017	0	0	17	13	221	477	674	637	375	72	4	0	2490
2018	0	0	10	78	193	440	729	566	399	112	2	0	2529
2019	0	0	5	114	118	477	605	622	379	72	0	0	2392
2020	0	2	1	93	273	440	614	666	453	236	5	0	2783
2021	0	0	5	72	270	535	744	633	443	80	1	0	2783
2022	0	0	39	59	238	494	649	680	519	227	0	0	2905
2023	0	0	0	92	218	309	676	592	347	175	4	0	2413

SNOWFALL (inches) 2023 FRESNO (KFAT)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1995-96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	T
1996-97	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	T
1997-98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	T	0.0	0.0	0.0	T
1998-99	0.0	0.0	0.0	0.0	0.0	0.5	T	T	0.0	0.0	0.0	0.0	0.5
1999-00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	T
2000-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	T
2001-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2002-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2003-04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2004-05	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T
2005-	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	T
2006-07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2007-08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2008-09	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	T
2009-10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	T
2010-11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T
2011-12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2012-13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2013-	0.0	0.0	0.0	0.0	0.0	0.0							
2013-14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2014-15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	T
2015-16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2016-17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	T
2017-18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2018-19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2019-20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2020-21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T
2021-22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2022-23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	T
2023-	0.0	0.0	0.0	0.0	0.0	0.0							
POR= 74 YRS	0.0	0.0	0.0	T	0.0	T	T	T	T	T	T	0.0	T

WBAN : 93193

REFERENCE NOTES :

PAGE 1:
THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).
PAGE 2 AND 3:
H/C INDICATES HEATING AND COOLING DEGREE DAYS.
RH INDICATES RELATIVE HUMIDITY
W/O INDICATES WEATHER AND OBSTRUCTIONS
S INDICATES SUNSHINE.
PR INDICATES PRESSURE.
CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).
GENERAL:
T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE.
+ INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES.
BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA.
ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM.
PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH.
POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING.
WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED.
0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05.
CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET
CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS.
GENERAL CONTINUED:
WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH.
RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION.
AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2.
SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN PRECIPITATION, INCLUDING HAIL.
A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65 F.
DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR.
DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY.
WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY.
ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.
STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED SATION HISTORY INFORMATION GO TO "Historical Observing Metadata Repository", URL IS:
http://www.ncdc.noaa.gov/homr/
SNOWFALL STOPPED MONTH & YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.

NOTE:

The "Period of Record:(POR)" for all "averages" is based on "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.

2023
FRESNO
CALIFORNIA (KFAT)

Fresno is located about midway and toward the eastern edge of the San Joaquin Valley, which is oriented northwest to southeast and has a length of about 225 miles and an average width of 50 miles. The San Joaquin Valley is generally flat. About 15 miles east of Fresno the terrain slopes upward with the foothills of the Sierra Nevada. The Sierra Nevada attain an elevation of more than 14,000 feet 50 miles east of Fresno. West of the city 45 miles lie the foothills of the Coastal Range.

The climate of Fresno is dry and mild in winter and hot in summer. Nearly nine-tenths of the annual precipitation falls in the six months from November to April.

Due to clear skies during the summer and the protection of the San Joaquin Valley from marine effects, the normal daily maximum temperature reaches the high 90s during the latter part of July. The daily maximum temperature during the warmest month has ranged from 76 to ll5 degrees. Low relative humidities and some wind movement substantially lower the sensible temperature during periods of high readings. Humidity readings of 15 percent are common on summer afternoons, and readings as low as 8 percent have been recorded. In contrast to this, humidity readings average 90 percent during the morning hours of December and January.

Winds flow with the major axis of the San Joaquin Valley, generally from the northwest. This feature is especially beneficial since, during the warmest months, the northwest winds increase during the evenings. These refreshing breezes and the normally large temperature variation of about 35 degrees between the highest and lowest readings of the day, generally result in comfortable evening and night temperatures.

Winter temperatures are usually mild with infrequent cold spells dropping the readings below freezing. Heavy frost occurs almost every year, and the first frost usually occurs during the last week of November. The last frost in spring is usually in early March, however, one year in five will have the last frost after the first of April. The growing season is 291 days.

Although the heaviest rains recorded at Fresno for short periods have occurred in June, usually any rainfall during the summer is very light. Snow is a rare occurrence in Fresno.

Fresno enjoys a very high percentage of sunshine, receiving more than 80 percent of the possible amounts during all but the four months of November, December, January, and February. Reduction of sunshine during these months is caused by fog and short periods of stormy weather.

During foggy periods, at times lasting nearly two weeks, sunshine is reduced to a minimum. This fog frequently lifts to a few hundred feet above the surface of the valley and presents the appearance of a heavy, solid cloud layer.

Spring and autumn are very enjoyable seasons in Fresno, with clear skies, light rainfall and winds and mild temperatures.

Station History

FRESNO, CA

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
FRESNO AIR TERMINAL	1948-01-01	1949-08-20	36° 46'	-119° 42'	338		AIRWAYS
FRESNO AIR TERMINAL	1949-08-20	1949-08-31	36° 46'	-119° 42'	338	7 MI ENE	AIRWAYS,COOP,USHCN
FRESNO AIR TERMINAL	1949-08-31	1961-01-01	36° 46'	-119° 42'	338		AIRWAYS,COOP,USHCN
FRESNO AIR TERMINAL	1961-01-01	1961-09-01	36° 46'	-119° 43'	328		AIRWAYS,COOP,USHCN
FRESNO AIR TERMINAL	1961-09-01	1978-01-01	36° 46'	-119° 43'	328	.9 MI W	AIRWAYS,COOP,USHCN
FRESNO AIR TERMINAL	1978-01-01	1985-02-01	36° 46'	-119° 43'	328		COOP,USHCN,WXSVC
FRESNO AIR TERMINAL	1985-02-01	1993-11-10	36° 46'	-119° 43'	336	1 MI NNE	COOP,USHCN,WXSVC
FRESNO AIR TERMINAL	1993-11-10	1995-09-01	36° 46'	-119° 43'	336		COOP,USHCN,WXSVC
FRESNO YOSEMITE INTL AP	1995-09-01	1995-11-15	36° 46'	-119° 43'	333	.5 MI WSW	ASOS,COOP,USHCN
FRESNO YOSEMITE INTL AP	1995-11-15	2010-06-24	36° 46'	-119° 43'	333		ASOS,COOP,USHCN
FRESNO YOSEMITE INTL AP	2010-06-24	2016-08-22	36° 46'	-119° 43'	333		ASOS,COOP,USHCN
FRESNO YOSEMITE INT'L	2016-08-22	2017-10-01	36° 46'	-119° 43'	333		ASOS,COOP,USHCN
FRESNO YOSEMITE INT'L	2017-10-01	2019-12-19	36° 46'	-119° 43'	333		ASOS,COOP,PLCD,USHCN
FRESNO YOSEMITE INT'L	2019-12-19	2021-11-22	36° 46'	-119° 43'	333		ASOS,COOP,PLCD,USHCN
FRESNO YOSEMITE INT'L	2021-11-22	Present	36° 46'	-119° 43'	334.29		ASOS,COOP,PLCD,USHCN

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	1947-10-01	1969-04-01	DAILY	2400	UNIV	RCRD	
TEMP	1947-10-01	1969-04-01	DAILY	2400			
MAX/MINTEM	1969-04-01	1982-01-01	DAILY	0800	PALMER		
MAX/MINTEM	1969-04-01	1982-01-01	DAILY	0800	PALMER		
PRECIP	1969-04-01	1982-01-01	DAILY	2400	UNIV	RCRD	
TEMP	1969-04-01	1982-01-01	DAILY	2400			
MAX/MINTEM	1982-01-01	1985-02-01	DAILY	0800	PALMER		
MAX/MINTEM	1982-01-01	1985-02-01	DAILY	0800	PALMER		
PRECIP	1982-01-01	1985-02-01	HOURLY	2400			
PRECIP	1982-01-01	1985-02-01	DAILY	2400	UNIV	RCRD	
TEMP	1982-01-01	1985-02-01	DAILY	2400			
PRECIP	1985-02-01	1995-07-01	DAILY	2400	UNIV	RCRD	
PRECIP	1985-02-01	1995-07-01	HOURLY	2400			
TEMP	1985-02-01	1995-07-01	DAILY	2400	MXMN		
PRECIP	1995-07-01	1995-09-01	DAILY	2400	UNIV	RCRD	
PRECIP	1995-07-01	1995-09-01	HOURLY	2400	UNIV	RCRD	
TEMP	1995-07-01	1995-09-01	DAILY	2400	MXMN		
PRECIP	1995-09-01	2001-06-04	HOURLY	2400	TB	RCRD	
PRECIP	1995-09-01	2001-06-04	DAILY	2400	TB	RCRD	
TEMP	1995-09-01	2001-06-04	DAILY	2400	HYGR		
WIND	1995-09-01	2001-06-04	HOURLY	UNKN	ANEMCUP		
PRECIP	2001-06-04	2007-04-03	HOURLY	2400	AHTB	RCRD;HTD	
PRECIP	2001-06-04	2007-04-03	DAILY	2400	AHTB	RCRD;HTD	
TEMP	2001-06-04	2007-04-03	DAILY	2400	ATEMP		
WIND	2001-06-04	2007-04-03	HOURLY	UNKN	ANEMCUP		
PRECIP	2007-04-03	2010-06-24	HOURLY	2400	AHTB	RCRD;HTD	
PRECIP	2007-04-03	2010-06-24	DAILY	2400	AHTB	RCRD;HTD	
TEMP	2007-04-03	2010-06-24	DAILY	2400	ATEMP		
WIND	2007-04-03	2010-06-24	HOURLY	UNKN	ANEMSONIC		
PRECIP	2010-06-24	2016-08-22	HOURLY	VAR	AWPAG	RCRD;HTD	
TEMP	2010-06-24	2016-08-22	DAILY	1700	ATEMP		
PRECIP	2010-06-24	2019-12-19	DAILY	2400	PCPNX		
PRECIP	2010-06-24	2019-12-19	HOURLY	2400	AWPAG	RCRD;HTD	
TEMP	2010-06-24	2019-12-19	DAILY	2400	ATEMP		
WIND	2010-06-24	2019-12-19	HOURLY	UNKN	ANEMSONIC		
PRECIP	2019-12-19	Present	HOURLY	2400	AWPAG	RCRD;HTD	
PRECIP	2019-12-19	Present	DAILY	2400	AWPAG	RCRD;HTD	
TEMP	2019-12-19	Present	DAILY	2400	ATEMP		
WIND	2019-12-19	Present	HOURLY	UNKN	ANEMSONIC		

* For explanation of codes and abbrevitions see Station Metadata link below.

Other Station Information can be found at:
ASOS Implementation by NWS: http://www.nws.noaa.gov/ops2/Surface/asosimplementation.htm
Station Metadata website: http://www.ncdc.noaa.gov/homr

INQUIRES/COMMENTS CALL: (828) 271-4800, option 2
Fax Number : (828) 271-4876
TDD : (828) 271-4010
Email : ncdc.orders@noaa.gov

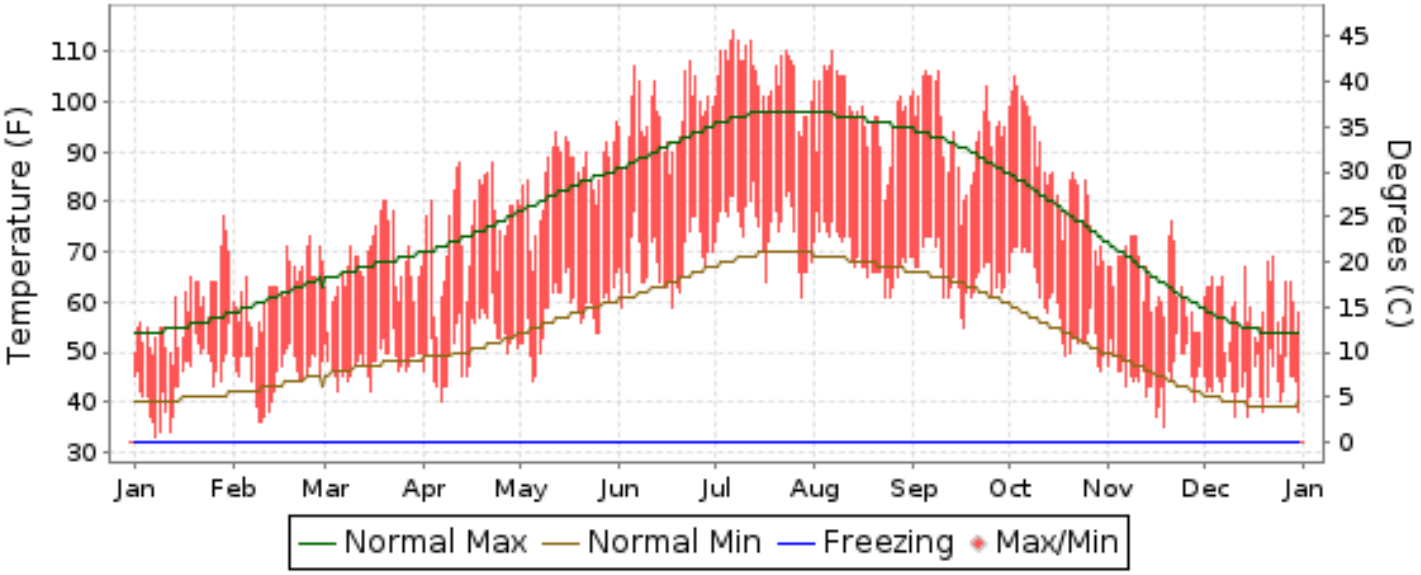
NOAA/National Centers for Environmental Information
Attn: User Engagement & Services Branch
151 Patton Avenue
Asheville, NC 28801-5001

2024
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA

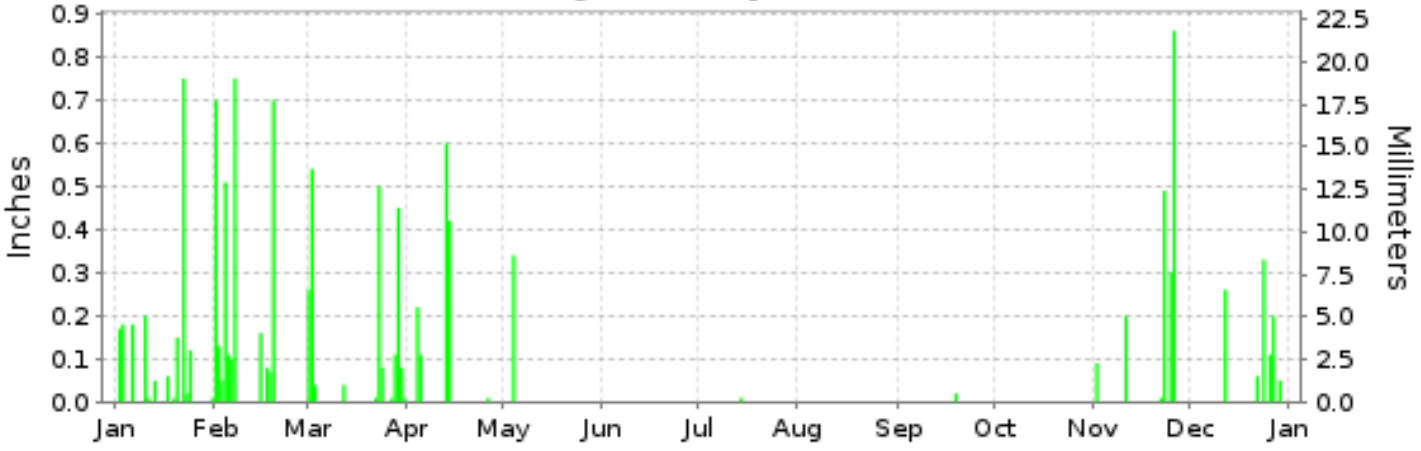
ISSN 0198-0890

FRESNO,
CALIFORNIA (KFAT)

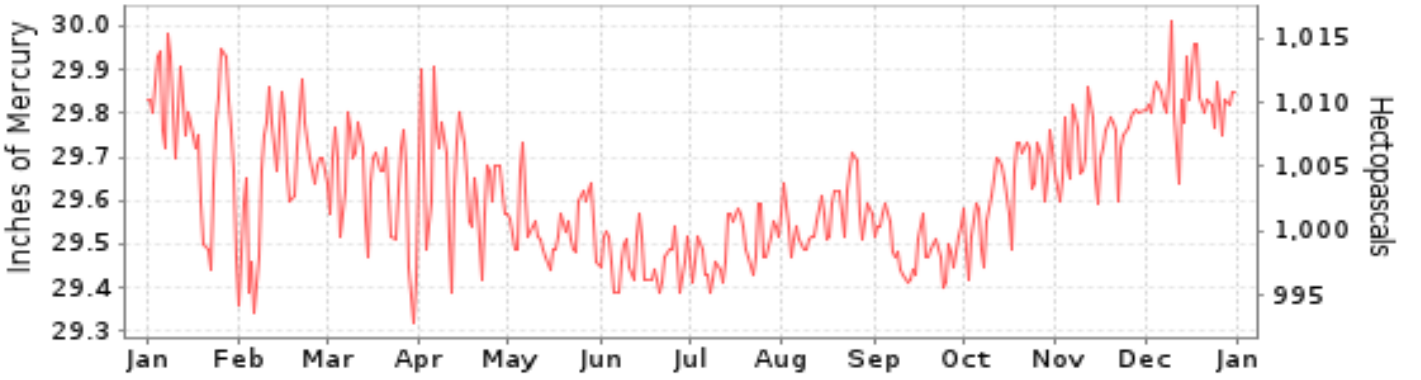
Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CENTERS for ENVIRONMENTAL INFORMATION (NCEI) ASHEVILLE, NORTH CAROLINA

DIRECTOR NCEI

METEOROLOGICAL DATA FOR 2024
FRESNO (KFAT)

LATITUDE: 36° 46'N **LONGITUDE:** 119° 43'W **ELEVATION (FT):** GRND: 334.29 BARO: 375 **TIME ZONE:** PACIFIC (UTC -8) **WBAN:** 93193

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	MEAN DAILY MAXIMUM	58.6	62.9	67.8	74.9	85.4	97.0	105.3	98.4	94.5	85.7	64.4	59.3	79.5
	HIGHEST DAILY MAXIMUM	77	73	80	88	96	108	114	110	106	105	76	69	114
	DATE OF OCCURRENCE	29	25	20+	22+	31	23	07	07	09+	03	21	23	JUL 07
	MEAN DAILY MINIMUM	44.3	45.2	47.7	51.4	57.8	67.9	74.7	69.1	65.4	59.0	45.3	43.4	55.9
	LOWEST DAILY MINIMUM	33	36	42	40	44	59	61	61	55	46	35	37	33
	DATE OF OCCURRENCE	08	10+	15+	06	05	18+	28	25+	17	30	19	15+	JAN 08
	AVERAGE DRY BULB	51.5	54.1	57.8	63.2	71.6	82.4	90.0	83.8	80.0	72.4	54.9	51.4	67.8
	MEAN WET BULB	47.6	48.9	50.2	53.8	57.4	62.9	68.0	64.1	62.7	57.8	47.7	47.9	55.8
	MEAN DEW POINT	44.2	44.5	43.3	46.3	45.5	48.8	54.9	50.6	50.8	46.7	40.8	45.3	46.8
	NUMBER OF DAYS WITH:													
	MAXIMUM >= 90°	0	0	0	0	11	27	31	28	22	10	0	0	129
	MAXIMUM <= 32°	0	0	0	0	0	0	0	0	0	0	0	0	0
	MINIMUM <= 32°	0	0	0	0	0	0	0	0	0	0	0	0	0
	MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0
H/C	HEATING DEGREE DAYS	413	309	220	111	23	0	0	0	0	28	297	415	1816
	COOLING DEGREE DAYS	0	0	4	64	236	531	785	587	455	266	0	0	2928
RH	MEAN (PERCENT)	80	73	63	58	43	34	34	35	40	45	65	83	54
	HOUR 04 LST	91	87	81	79	66	53	52	53	61	63	79	91	71
	HOUR 10 LST	77	68	53	49	34	27	27	29	33	36	59	83	48
	HOUR 16 LST	65	57	44	39	25	19	17	19	22	28	51	72	38
	HOUR 22 LST	84	80	70	65	47	39	38	40	44	52	72	88	60
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG(VISBY <= 1/4 MI)	7	1	0	1	0	0	0	0	0	0	1	17	27
	THUNDERSTORMS	0	0	0	2	0	1	0	0	1	0	0	0	4
PR	MEAN STATION PRESS. (IN.)	29.77	29.67	29.64	29.65	29.54	29.47	29.49	29.56	29.49	29.62	29.72	29.85	29.62
	MEAN SEA-LEVEL PRESS. (IN.)	30.12	30.02	29.99	30.00	29.89	29.81	29.83	29.90	29.83	29.97	30.08	30.19	29.97
WINDS	RESULTANT SPEED (MPH)	0.7	1.6	1.1	2.8	5.9	6.4	5.3	6.0	3.4	1.9	0.4	0.5	2.5
	RES. DIR. (TENS OF DEGS.)	10	14	32	32	31	31	31	31	31	31	36	12	32
	MEAN SPEED (MPH)	3.9	5.0	5.9	6.5	7.4	8.1	7.1	7.4	5.3	4.5	4.2	3.4	5.7
	PREVAIL.DIR.(TENS OF DEGS.)	12	12	31	32	32	31	31	31	31	31	30	12	31
	MAXIMUM 2-MINUTE WIND													
	SPEED (MPH)	36	28	24	35	25	25	21	23	24	23	36	25	36
	DIR. (TENS OF DEGS.)	32	14	31	31	31	30	32	31	31	30	32	17	32
	DATE OF OCCURRENCE	11	01	14	13	04	17	26	22	15	28	11	14	NOV 11
	MAXIMUM 3-SECOND WIND:													
	SPEED (MPH)	46	39	33	44	33	36	30	30	32	33	47	33	47
	DIR. (TENS OF DEGS.)	31	14	17	31	01	36	29	32	31	30	30	17	30
	DATE OF OCCURRENCE	11	01	02	13	01	25	26	23	15	28	11	14	NOV 11
PRECIPITATION	WATER EQUIVALENT:	1.91	3.36	2.13	1.36	0.34	T	0.01	T	0.02	T	1.95	1.01	12.09
	TOTAL (IN.)	0.75	0.76	0.57	1.02	0.34	T	0.01	T	0.02	T	1.14	0.33	1.14
	GREATEST 24-HOUR (IN.)	22	18-19	02-03	13-14	04	24	14	24+	19	16	25-26	24	NOV 25-26
	DATE OF OCCURRENCE													
	NUMBER OF DAYS WITH:	13	11	12	5	1	0	1	0	1	0	6	6	56
	PRECIPITATION 0.01	7	8	5	4	1	0	0	0	0	0	4	4	33
	PRECIPITATION 0.10	0	0	0	0	0	0	0	0	0	0	0	0	0
	PRECIPITATION 1.00													
SNOWFALL	SNOW,ICE PELLETS,HAIL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	TOTAL (IN.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	GREATEST 24-HOUR (IN.)													
	DATE OF OCCURRENCE	0	0	0	0	0	0	0	0	0	0	0	0	0
	MAXIMUM SNOW DEPTH (IN.)													
	DATE OF OCCURRENCE													
	NUMBER OF DAYS WITH:	0	0	0	0	0	0	0	0	0	0	0	0	0
	SNOWFALL >= 1.0													

NORMALS, MEANS, AND EXTREMES
FRESNO (KFAT)

LATITUDE: 36° 46'N **LONGITUDE:** 119° 43'W **ELEVATION (FT):** GRND: 334.29 BARO: 375 **TIME ZONE:** PACIFIC (UTC -8) **WBAN:** 93193

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	55.4	61.3	67.5	73.7	82.7	91.4	97.7	96.5	90.7	78.7	64.9	55.3	76.3
	MEAN DAILY MAXIMUM	75	55.4	62.0	67.5	74.8	83.7	92.1	98.7	96.8	91.0	80.0	65.6	55.3	76.9
	HIGHEST DAILY MAXIMUM	75	78	83	91	100	107	111	114	112	114	105	90	77	114
	YEAR OF OCCURRENCE		2014	2020	2015	1981	1984	2021	2024	2020	2022	2024	2010	2023	JUL 2024
	MEAN OF EXTREME MAXS.	75	67.7	73.5	80.7	90.4	98.9	105.3	107.4	106.0	102.6	93.8	79.7	67.4	89.5
	NORMAL DAILY MINIMUM	30	40.6	43.3	47.3	50.9	57.6	63.9	69.3	67.9	63.4	54.6	45.4	39.8	53.7
	MEAN DAILY MINIMUM	75	38.3	41.1	44.4	48.6	54.9	61.4	66.7	65.0	60.5	52.0	43.0	37.9	51.2
	LOWEST DAILY MINIMUM	75	19	24	26	32	36	44	50	49	37	27	26	18	18
	YEAR OF OCCURRENCE		1963	1990	1966	1982	1975	1955	1955	1966	1950	1972	1975	1990	DEC 1990
	MEAN OF EXTREME MINS.	75	28.7	31.9	35.1	39.3	45.3	51.7	57.9	57.4	51.7	42.0	33.2	28.7	41.9
	NORMAL DRY BULB	30	48.0	52.3	57.4	62.3	70.2	77.6	83.5	82.2	77.1	66.7	55.1	47.5	65.0
	MEAN DRY BULB	75	46.8	51.5	56.0	61.7	69.3	76.8	82.7	80.9	75.8	66.0	54.3	46.6	64.0
	MEAN WET BULB	41	42.5	44.5	47.1	48.5	51.3	55.2	59.0	58.7	56.1	51.7	46.0	41.6	50.2
	MEAN DEW POINT	41	43.0	44.8	47.6	48.4	51.3	55.5	59.3	58.8	56.3	51.4	45.9	41.9	50.4
	NORMAL NO. DAYS WITH:														
	MAXIMUM >= 90	30	0.0	0.0	0.1	2.0	8.8	20.2	29.5	28.8	19.9	3.8	0.0	0.0	113.1
	MAXIMUM <= 32	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	MINIMUM <= 32	30	4.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	4.9	10.7
	MINIMUM <= 0	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
H/C	NORMAL HEATING DEG. DAYS	30	527	356	242	129	32	3	0	0	2	57	299	541	2188
	NORMAL COOLING DEG. DAYS	30	0	0	6	48	191	382	573	533	364	108	3	0	2208
RH	NORMAL (PERCENT)		84	77	70	57	48	43	40	44	49	58	74	83	61
	HOUR 04 LST	30	92	90	87	80	71	65	62	66	71	78	88	92	79
	HOUR 10 LST	30	85	77	66	51	44	39	38	41	45	52	71	83	58
	HOUR 16 LST	30	69	57	49	35	28	24	22	25	28	35	53	67	41
	HOUR 22 LST	30	89	83	76	62	51	44	42	46	51	63	81	88	65
S	PERCENT POSSIBLE SUNSHINE	46	47	65	77	85	90	95	97	96	94	88	66	46	79
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	61	9.8	4.1	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.4	4.3	9.5	29.5
	THUNDERSTORMS	75	0.2	0.4	0.8	0.6	0.6	0.4	0.2	0.3	0.6	0.5	0.2	0.3	5.1
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)														
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH:														
	CLEAR														
	PARTLY CLOUDY														
	CLOUDY														
PR	MEAN STATION PRESSURE(IN)	41	29.80	29.74	29.70	29.65	29.58	29.52	29.52	29.52	29.53	29.63	29.74	29.77	29.64
	MEAN SEA-LEVEL PRES. (IN)	41	30.16	30.09	30.05	30.00	29.92	29.87	29.86	29.86	29.88	29.97	30.09	30.15	29.99
WINDS	MEAN SPEED (MPH)	41	4.1	5.0	5.9	7.3	8.3	8.3	7.5	6.9	6.0	4.6	3.9	4.0	6.0
	PREVAIL.DIR(TENS OF DEGS)	49	12	12	32	32	31	31	31	31	31	31	31	12	31
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	29	38	39	36	40	32	33	24	38	31	35	36	35	40
	DIR. (TENS OF DEGS)		16	28	29	31	32	30	30	16	29	31	32	28	31
	YEAR OF OCCURRENCE		2005	2023	2017	2019	1998	2012	2015	2023	2013	2021	2024	2008	APR 2019
	MAXIMUM 3-SECOND														
	SPEED (MPH)	29	46	54	42	50	40	40	33	49	36	45	47	45	54
	DIR. (TENS OF DEGS)		31	30	18	31	02	31	07	16	29	33	30	01	30
	YEAR OF OCCURRENCE		2024	2023	2023	2019	2019	2012	2007	2023	2013	2009	2024	2011	FEB 2023
PRECIPITATION	NORMAL (IN)	30	2.16	1.93	1.90	1.04	0.42	0.24	0.03	0.0	0.05	0.56	0.87	1.79	10.99
	MAXIMUM MONTHLY (IN)	75	8.56	6.12	7.24	4.41	2.38	1.93	0.43	0.25	1.19	2.45	3.50	6.73	8.56
	YEAR OF OCCURRENCE		1969	2000	1991	1967	2019	1998	2015	1964	1976	2000	1972	1955	JAN 1969
	MINIMUM MONTHLY (IN)	75	T	T	0.00	T	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	YEAR OF OCCURRENCE		2022	2020	1972	2008	1982	1983	1983	1981	1981	1978	1959	1989	DEC 1989
	MAXIMUM IN 24 HOURS (IN)	75	2.74	2.81	2.43	2.04	1.42	1.80	0.36	0.25	0.97	1.76	1.35	1.82	2.81
	YEAR OF OCCURRENCE		2006	2023	1995	2017	1990	1998	2015	1964	1978	1992	1953	2007	FEB 2023
	NORMAL NO. DAYS WITH:														
	PRECIPITATION >= 0.01	30	7.7	8.5	7.2	4.5	2.7	0.7	0.3	0.1	0.6	2.2	4.7	7.3	46.5
	PRECIPITATION >= 1.00	30	0.1	0.1	0.3	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.2	1.1
SNOWFALL	NORMAL (IN)	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	MAXIMUM MONTHLY (IN)	65	2.2	T	T	T	0.0	0.0	T	T	T	T	0.0	1.2	2.2
	YEAR OF OCCURRENCE		1962	2023	2021	2017	2018	2024	2022	2024	2023	2024		1968	JAN 1962
	MAXIMUM IN 24 HOURS (IN)	65	1.5	T	T	T	T	T	0.0	0.0	0.0	T	0.0	1.2	1.5
	YEAR OF OCCURRENCE'		1962	2023	2021	2017	2015	1995				1974		1968	JAN 1962
	MAXIMUM SNOW DEPTH (IN)	64	0	0	0	0	0	0	0	0	0	0	0	1	1
	YEAR OF OCCURRENCE													1968	DEC 1968
	NORMAL NO. DAYS WITH:														
	SNOWFALL >= 1.0	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

PRECIPITATION (inches) 2024 FRESNO (KFAT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1995	5.42	0.93	5.88	1.08	1.19	0.66	0.01	T	0.00	0.00	T	2.12	17.29
1996	2.07	3.57	1.52	1.17	0.38	0.08	T	0.00	0.00	1.97	1.94	4.27	16.97
1997	3.53	0.17	0.10	T	T	0.01	T	0.00	0.15	0.07	2.66	0.99	7.68
1998	3.40	4.89	3.44	1.26	1.37	1.93	0.00	0.00	0.15	0.16	0.43	0.62	17.65
1999	2.82	1.18	0.49	0.93	0.03	0.20	0.00	0.01	T	T	0.48	0.03	6.17
2000	3.15	6.12	1.35	1.16	0.05	0.56	0.00	T	0.32	2.45	0.01	0.07	15.24
2001	2.66	2.22	0.96	1.87	0.00	0.00	0.08	0.00	T	0.29	1.99	1.95	12.02
2002	0.76	0.40	0.95	0.21	0.38	0.02	0.00	0.00	T	0.00	1.78	2.25	6.75
2003	0.40	1.22	0.63	2.84	0.68	0.00	T	0.04	T	T	0.40	2.93	9.14
2004	0.88	1.69	1.54	0.03	0.07	0.00	0.00	0.00	0.00	2.45	0.81	3.16	10.63
2005	2.42	2.30	2.51	0.56	1.62	0.01	0.00	T	0.04	0.05	0.17	2.00	11.68
2006	3.40	0.54	4.73	3.27	0.36	0.00	T	0.00	0.00	0.08	0.23	1.33	13.94
2007	0.59	2.29	0.97	0.49	0.05	0.00	T	0.02	0.02	0.20	0.09	2.31	7.03
2008	3.32	2.12	0.02	T	0.30	0.00	0.01	0.00	0.00	0.23	1.37	1.09	8.46
2009	1.02	2.43	0.24	0.72	0.46	0.20	0.00	T	0.01	1.39	0.20	2.41	9.08
2010	2.05	2.94	0.96	2.19	0.21	0.00	T	0.00	0.00	0.44	1.80	5.92	16.51
2011	1.71	1.60	3.46	0.32	0.35	1.91	T	0.00	T	0.90	0.67	0.00	10.92
2012	1.38	0.75	2.43	2.02	0.00	T	T	T	0.00	0.25	1.11	2.03	9.97
2013	0.58	0.89	0.65	0.09	0.07	T	T	T	0.01	0.03	0.54	0.15	3.01
2014	0.57	2.11	0.62	0.74	0.04	0.00	0.01	T	0.18	0.50	0.40	2.29	7.46
2015	0.21	1.13	0.06	1.25	0.57	0.01	0.43	0.00	0.12	0.49	1.74	2.97	8.98
2016	4.42	0.33	2.93	1.06	0.29	0.06	0.00	0.00	0.00	0.67	1.38	2.51	13.65
2017	5.50	2.52	1.08	3.42	0.12	0.00	0.00	T	0.16	0.09	0.28	0.04	13.21
2018	1.23	0.26	4.19	0.64	T	0.00	0.00	0.00	0.00	0.10	1.67	0.56	8.65
2019	2.23	3.26	1.26	0.39	2.38	0.00	T	0.00	0.00	0.00	0.72	2.16	12.40
2020	0.66	T	2.32	1.65	0.12	0.00	0.00	T	T	0.00	0.28	1.14	6.17
2021	3.40	0.29	1.33	0.15	0.00	0.00	0.00	0.00	0.00	1.27	0.30	3.64	10.38
2022	T	0.04	0.74	0.30	0.00	T	T	0.05	0.06	0.00	0.66	4.59	6.44
2023	3.95	4.26	4.00	0.00	0.35	T	0.00	0.19	T	T	0.21	0.68	13.64
2024	1.91	3.36	2.13	1.36	0.34	T	0.01	T	0.02	T	1.95	1.01	12.09
POR= 75 YRS	2.10	1.85	1.85	1.03	0.36	0.14	0.01	0.01	0.14	0.49	1.10	1.68	10.76

WBAN : 93193

AVERAGE TEMPERATURE (°F) 2024 FRESNO (KFAT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1995	51.9	54.1	56.2	60.7	66.2	73.3	80.7	82.6	76.3	66.8	58.7	50.5	64.8
1996	48.3	54.2	57.2	63.6	69.9	77.8	85.4	83.4	74.8	64.1	53.9	49.1	65.1
1997	48.7	50.3	60.0	63.5	75.3	75.8	81.3	80.6	77.3	63.8	56.9	44.7	64.9
1998	49.0	50.0	55.5	59.0	62.0	71.5	82.1	84.1	75.8	63.1	53.1	42.8	62.3
1999	44.7	49.9	53.5	58.5	68.0	75.9	80.6	78.4	77.3	68.7	56.9	47.0	63.3
2000	50.2	53.8	56.5	64.2	71.0	79.8	78.8	81.2	74.5	63.9	49.2	47.8	64.2
2001	46.2	48.7	58.8	58.6	77.3	79.7	81.6	81.9	77.0	68.5	56.4	47.4	65.2
2002	45.0	52.2	55.1	62.8	69.6	78.1	84.1	80.0	77.1	65.2	56.2	49.3	64.6
2003	50.6	51.1	58.1	58.6	69.5	78.4	86.5	81.4	79.2	69.8	52.2	49.3	65.4
2004	46.6	50.5	62.6	65.8	70.9	77.4	83.3	81.3	75.9	64.1	51.7	46.5	64.7
2005	47.4	54.4	57.8	59.6	69.4	73.6	86.8	84.0	73.9	65.9	57.6	51.0	65.1
2006	48.7	52.4	50.1	59.7	71.9	80.7	87.9	80.2	75.8	64.0	55.4	47.1	64.5
2007	43.7	51.4	60.3	63.0	71.5	78.0	83.2	82.8	73.7	64.4	57.4	45.5	64.6
2008	47.0	51.1	57.0	61.7	70.3	79.1	83.8	84.1	78.0	67.1	57.5	44.9	65.1
2009	47.7	51.5	56.0	62.0	75.3	75.7	85.0	81.8	79.7	63.7	54.1	47.2	65.0
2010	48.6	52.2	55.5	57.7	65.2	77.6	83.1	79.9	76.9	68.0	53.8	50.9	64.1
2011	46.6	49.2	55.4	60.7	65.1	75.0	82.0	82.4	80.3	68.0	53.5	45.6	63.7
2012	49.3	52.7	56.2	63.0	72.4	77.9	83.4	86.6	81.4	69.1	58.3	50.9	66.8
2013	47.1	51.0	62.1	67.6	73.0	80.9	87.1	83.0	77.9	66.6	58.5	47.3	66.8
2014	53.2	56.8	62.4	66.8	74.2	80.9	86.9	84.4	80.7	72.0	57.7	51.9	69.0
2015	49.0	57.0	64.0	64.3	68.5	82.0	83.1	82.4	78.7	71.3	52.0	45.8	66.5
2016	50.0	55.5	58.7	65.3	71.3	80.9	84.0	82.5	76.1	66.4	57.6	47.1	66.3
2017	48.1	53.9	58.8	62.1	71.0	80.5	86.5	85.2	77.2	65.7	58.0	48.0	66.3
2018	52.5	53.2	56.8	64.9	70.9	79.4	88.2	83.0	78.0	68.1	57.8	50.0	66.9
2019	52.5	49.2	57.4	67.1	66.7	80.7	84.2	84.8	77.2	65.5	57.9	51.0	66.2
2020	49.0	55.0	56.6	64.1	73.4	79.5	84.6	86.2	79.8	71.6	54.9	48.9	67.0
2021	50.4	54.1	56.3	65.9	73.4	82.6	88.7	85.2	79.6	65.1	57.2	48.1	67.2
2022	50.1	53.8	60.5	64.4	71.5	81.3	85.7	86.7	82.2	71.0	52.1	47.3	67.2
2023	49.6	48.8	53.4	63.7	70.7	75.1	86.6	83.8	76.3	69.2	57.8	53.2	65.7
2024	51.5	54.1	57.8	63.2	71.6	82.4	90.0	83.8	80.0	72.4	54.9	51.4	67.8
POR= 75 YRS	46.8	51.5	56.0	61.7	69.3	76.8	82.7	80.9	75.8	66.0	54.3	46.6	64.0

HEATING DEGREE DAYS (base 65°F) 2024 FRESNO (KFAT)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1995-96	0	0	0	30	184	444	513	304	238	99	8	0	1820
1996-97	0	0	0	148	329	486	500	405	169	97	2	0	2136
1997-98	0	0	0	92	246	621	490	412	293	226	104	7	2491
1998-99	0	0	7	79	351	682	619	418	348	227	35	12	2778
1999-00	0	0	0	14	235	550	452	317	259	72	27	3	1929
2000-01	0	0	0	103	466	526	577	451	208	222	0	0	2553
2001-02	0	0	0	23	251	538	610	352	310	109	30	0	2223
2002-03	0	0	0	67	256	477	440	382	216	191	49	0	2078
2003-04	0	0	0	24	378	482	565	413	113	64	3	0	2042
2004-05	0	0	6	124	391	566	537	291	217	158	30	1	2321
2005-06	0	0	0	41	217	424	500	345	456	170	9	0	2162
2006-07	0	0	2	56	283	546	654	373	158	117	19	1	2209
2007-08	0	0	6	59	223	600	552	396	243	149	20	0	2248
2008-09	0	0	0	39	219	616	531	369	274	145	0	0	2193
2009-10	0	0	2	87	322	544	500	352	289	227	62	0	2385
2010-11	0	0	0	40	346	432	563	438	292	138	67	7	2323
2011-12	0	0	0	29	338	595	478	352	268	129	6	2	2197
2012-13	0	0	0	38	205	432	545	386	107	42	4	0	1759
2013-14	0	0	0	32	189	540	361	223	88	68	3	0	1504
2014-15	0	0	0	5	216	401	487	217	83	85	25	0	1519
2015-16	0	0	0	5	385	587	456	268	189	47	10	0	1947
2016-17	0	0	2	23	226	544	514	305	202	94	26	4	1940
2017-18	0	0	4	45	209	523	376	324	258	70	4	0	1813
2018-19	0	0	0	9	209	458	381	433	233	46	57	0	1826
2019-20	0	0	6	51	205	427	489	285	253	111	4	0	1831
2020-21	0	0	0	23	301	493	445	298	269	37	6	0	1872
2021-22	0	0	0	69	226	517	453	308	171	70	29	0	1843
2022-23	0	0	0	32	381	542	469	446	350	123	35	0	2378
2023-24	0	0	0	35	211	359	413	309	220	111	23	0	1681
2024-	0	0	0	28	297	415							

WBAN : 93193

COOLING DEGREE DAYS (base 65°F) 2024 FRESNO (KFAT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1995	0	0	0	25	104	273	494	551	347	91	0	0	1885
1996	0	0	4	66	162	389	640	579	300	125	0	0	2265
1997	0	0	18	61	330	334	514	492	373	61	11	0	2194
1998	0	0	6	50	18	210	536	600	338	25	0	0	1783
1999	0	0	0	39	135	348	487	423	373	135	0	0	1940
2000	0	0	0	54	217	454	434	509	291	81	0	0	2040
2001	0	0	20	37	389	447	521	533	365	137	0	0	2449
2002	0	0	9	50	180	400	599	472	372	81	0	0	2163
2003	0	0	7	5	192	406	671	518	431	180	0	0	2410
2004	0	0	45	97	188	376	576	514	341	99	0	0	2236
2005	0	0	4	2	170	266	682	597	271	79	2	0	2073
2006	0	0	0	20	231	478	715	475	337	31	1	0	2288
2007	0	0	20	64	229	396	569	560	274	50	0	0	2162
2008	0	0	0	54	192	431	592	599	394	114	1	0	2377
2009	0	0	1	62	330	328	628	527	451	53	3	0	2383
2010	0	0	0	15	72	386	563	470	364	144	17	0	2031
2011	0	0	1	18	81	315	535	546	466	128	0	0	2090
2012	0	0	2	77	242	391	577	677	495	172	11	0	2644
2013	0	0	23	124	260	483	691	565	394	85	0	0	2625
2014	0	0	12	132	299	485	687	606	479	230	2	0	2932
2015	0	0	58	70	145	513	568	545	418	205	2	0	2524
2016	0	0	1	63	214	487	598	552	344	73	10	0	2342
2017	0	0	17	13	221	477	674	637	375	72	4	0	2490
2018	0	0	10	78	193	440	729	566	399	112	2	0	2529
2019	0	0	5	114	118	477	605	622	379	72	0	0	2392
2020	0	2	1	93	273	440	614	666	453	236	5	0	2783
2021	0	0	5	72	270	535	744	633	443	80	1	0	2783
2022	0	0	39	59	238	494	649	680	519	227	0	0	2905
2023	0	0	0	92	218	309	676	592	347	175	4	0	2413
2024	0	0	4	64	236	531	785	587	455	266	0	0	2928

SNOWFALL (inches) 2024 FRESNO (KFAT)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1996-97	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	T
1997-98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	T	0.0	0.0	0.0	T
1998-99	0.0	0.0	0.0	0.0	0.0	0.5	T	T	0.0	0.0	0.0	0.0	0.5
1999-00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	T
2000-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	T
2001-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2002-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2003-04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2004-05	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T
2005-	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	T
2006-07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2007-08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2008-09	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	T
2009-10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	T
2010-11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T
2011-12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2012-13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2013-	0.0	0.0	0.0	0.0	0.0	0.0							
2013-14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2014-15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	T
2015-16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2016-17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	T
2017-18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2018-19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2019-20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2020-21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T
2021-22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2022-23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	T
2023-24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2024-	0.0	0.0	0.0	0.0	0.0	0.0							
POR= 75 YRS	0.0	0.0	0.0	T	0.0	T	T	T	T	T	T	0.0	T

WBAN : 93193

REFERENCE NOTES :

PAGE 1:
THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).
PAGE 2 AND 3:
H/C INDICATES HEATING AND COOLING DEGREE DAYS.
RH INDICATES RELATIVE HUMIDITY
W/O INDICATES WEATHER AND OBSTRUCTIONS
S INDICATES SUNSHINE.
PR INDICATES PRESSURE.
CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).
GENERAL:
T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE.
+ INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES.
BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA.
ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM.
PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH.
POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING.
WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED.
0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05.
CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET
CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS.
GENERAL CONTINUED:
WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH.
RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION.
AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2.
SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN PRECIPITATION, INCLUDING HAIL.
A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65 F.
DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR.
DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY.
WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY.
ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.
STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED SATION HISTORY INFORMATION GO TO "Historical Observing Metadata Repository", URL IS:
http://www.ncdc.noaa.gov/homr/
SNOWFALL STOPPED MONTH & YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.

NOTE:

The "Period of Record:(POR)" for all "averages" is based on "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.

2024
FRESNO
CALIFORNIA (KFAT)

Fresno is located about midway and toward the eastern edge of the San Joaquin Valley, which is oriented northwest to southeast and has a length of about 225 miles and an average width of 50 miles. The San Joaquin Valley is generally flat. About 15 miles east of Fresno the terrain slopes upward with the foothills of the Sierra Nevada. The Sierra Nevada attain an elevation of more than 14,000 feet 50 miles east of Fresno. West of the city 45 miles lie the foothills of the Coastal Range.

The climate of Fresno is dry and mild in winter and hot in summer. Nearly nine-tenths of the annual precipitation falls in the six months from November to April.

Due to clear skies during the summer and the protection of the San Joaquin Valley from marine effects, the normal daily maximum temperature reaches the high 90s during the latter part of July. The daily maximum temperature during the warmest month has ranged from 76 to ll5 degrees. Low relative humidities and some wind movement substantially lower the sensible temperature during periods of high readings. Humidity readings of 15 percent are common on summer afternoons, and readings as low as 8 percent have been recorded. In contrast to this, humidity readings average 90 percent during the morning hours of December and January.

Winds flow with the major axis of the San Joaquin Valley, generally from the northwest. This feature is especially beneficial since, during the warmest months, the northwest winds increase during the evenings. These refreshing breezes and the normally large temperature variation of about 35 degrees between the highest and lowest readings of the day, generally result in comfortable evening and night temperatures.

Winter temperatures are usually mild with infrequent cold spells dropping the readings below freezing. Heavy frost occurs almost every year, and the first frost usually occurs during the last week of November. The last frost in spring is usually in early March, however, one year in five will have the last frost after the first of April. The growing season is 291 days.

Although the heaviest rains recorded at Fresno for short periods have occurred in June, usually any rainfall during the summer is very light. Snow is a rare occurrence in Fresno.

Fresno enjoys a very high percentage of sunshine, receiving more than 80 percent of the possible amounts during all but the four months of November, December, January, and February. Reduction of sunshine during these months is caused by fog and short periods of stormy weather.

During foggy periods, at times lasting nearly two weeks, sunshine is reduced to a minimum. This fog frequently lifts to a few hundred feet above the surface of the valley and presents the appearance of a heavy, solid cloud layer.

Spring and autumn are very enjoyable seasons in Fresno, with clear skies, light rainfall and winds and mild temperatures.

Station History

FRESNO, CA

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
FRESNO AIR TERMINAL	1948-01-01	1949-08-20	36° 46'	-119° 42'	338		AIRWAYS
FRESNO AIR TERMINAL	1949-08-20	1949-08-31	36° 46'	-119° 42'	338	7 MI ENE	AIRWAYS,COOP,USHCN
FRESNO AIR TERMINAL	1949-08-31	1961-01-01	36° 46'	-119° 42'	338		AIRWAYS,COOP,USHCN
FRESNO AIR TERMINAL	1961-01-01	1961-09-01	36° 46'	-119° 43'	328		AIRWAYS,COOP,USHCN
FRESNO AIR TERMINAL	1961-09-01	1978-01-01	36° 46'	-119° 43'	328	.9 MI W	AIRWAYS,COOP,USHCN
FRESNO AIR TERMINAL	1978-01-01	1985-02-01	36° 46'	-119° 43'	328		COOP,USHCN,WXSVC
FRESNO AIR TERMINAL	1985-02-01	1993-11-10	36° 46'	-119° 43'	336	1 MI NNE	COOP,USHCN,WXSVC
FRESNO AIR TERMINAL	1993-11-10	1995-09-01	36° 46'	-119° 43'	336		COOP,USHCN,WXSVC
FRESNO YOSEMITE INTL AP	1995-09-01	1995-11-15	36° 46'	-119° 43'	333	.5 MI WSW	ASOS,COOP,USHCN
FRESNO YOSEMITE INTL AP	1995-11-15	2010-06-24	36° 46'	-119° 43'	333		ASOS,COOP,USHCN
FRESNO YOSEMITE INTL AP	2010-06-24	2016-08-22	36° 46'	-119° 43'	333		ASOS,COOP,USHCN
FRESNO YOSEMITE INT'L	2016-08-22	2017-10-01	36° 46'	-119° 43'	333		ASOS,COOP,USHCN
FRESNO YOSEMITE INT'L	2017-10-01	2019-12-19	36° 46'	-119° 43'	333		ASOS,COOP,PLCD,USHCN
FRESNO YOSEMITE INT'L	2019-12-19	2021-11-22	36° 46'	-119° 43'	333		ASOS,COOP,PLCD,USHCN
FRESNO YOSEMITE INT'L	2021-11-22	Present	36° 46'	-119° 43'	334.29		ASOS,COOP,PLCD,USHCN

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	1947-10-01	1969-04-01	DAILY	2400	UNIV	RCRD	
TEMP	1947-10-01	1969-04-01	DAILY	2400			
MAX/MINTEM	1969-04-01	1982-01-01	DAILY	0800	PALMER		
MAX/MINTEM	1969-04-01	1982-01-01	DAILY	0800	PALMER		
PRECIP	1969-04-01	1982-01-01	DAILY	2400	UNIV	RCRD	
TEMP	1969-04-01	1982-01-01	DAILY	2400			
MAX/MINTEM	1982-01-01	1985-02-01	DAILY	0800	PALMER		
MAX/MINTEM	1982-01-01	1985-02-01	DAILY	0800	PALMER		
PRECIP	1982-01-01	1985-02-01	HOURLY	2400			
PRECIP	1982-01-01	1985-02-01	DAILY	2400	UNIV	RCRD	
TEMP	1982-01-01	1985-02-01	DAILY	2400			
PRECIP	1985-02-01	1995-07-01	DAILY	2400	UNIV	RCRD	
PRECIP	1985-02-01	1995-07-01	HOURLY	2400			
TEMP	1985-02-01	1995-07-01	DAILY	2400	MXMN		
PRECIP	1995-07-01	1995-09-01	DAILY	2400	UNIV	RCRD	
PRECIP	1995-07-01	1995-09-01	HOURLY	2400	UNIV	RCRD	
TEMP	1995-07-01	1995-09-01	DAILY	2400	MXMN		
PRECIP	1995-09-01	2001-06-04	HOURLY	2400	TB	RCRD	
PRECIP	1995-09-01	2001-06-04	DAILY	2400	TB	RCRD	
TEMP	1995-09-01	2001-06-04	DAILY	2400	HYGR		
WIND	1995-09-01	2001-06-04	HOURLY	UNKN	ANEMCUP		
PRECIP	2001-06-04	2007-04-03	HOURLY	2400	AHTB	RCRD;HTD	
PRECIP	2001-06-04	2007-04-03	DAILY	2400	AHTB	RCRD;HTD	
TEMP	2001-06-04	2007-04-03	DAILY	2400	ATEMP		
WIND	2001-06-04	2007-04-03	HOURLY	UNKN	ANEMCUP		
PRECIP	2007-04-03	2010-06-24	HOURLY	2400	AHTB	RCRD;HTD	
PRECIP	2007-04-03	2010-06-24	DAILY	2400	AHTB	RCRD;HTD	
TEMP	2007-04-03	2010-06-24	DAILY	2400	ATEMP		
WIND	2007-04-03	2010-06-24	HOURLY	UNKN	ANEMSONIC		
PRECIP	2010-06-24	2016-08-22	HOURLY	VAR	AWPAG	RCRD;HTD	
TEMP	2010-06-24	2016-08-22	DAILY	1700	ATEMP		
PRECIP	2010-06-24	2019-12-19	DAILY	2400	PCPNX		
PRECIP	2010-06-24	2019-12-19	HOURLY	2400	AWPAG	RCRD;HTD	
TEMP	2010-06-24	2019-12-19	DAILY	2400	ATEMP		
WIND	2010-06-24	2019-12-19	HOURLY	UNKN	ANEMSONIC		
PRECIP	2019-12-19	Present	HOURLY	2400	AWPAG	RCRD;HTD	
PRECIP	2019-12-19	Present	DAILY	2400	AWPAG	RCRD;HTD	
TEMP	2019-12-19	Present	DAILY	2400	ATEMP		
WIND	2019-12-19	Present	HOURLY	UNKN	ANEMSONIC		

* For explanation of codes and abbrevitions see Station Metadata link below.

Other Station Information can be found at:
ASOS Implementation by NWS: http://www.nws.noaa.gov/ops2/Surface/asosimplementation.htm
Station Metadata website: http://www.ncdc.noaa.gov/homr

INQUIRES/COMMENTS CALL: (828) 271-4800, option 2
Fax Number : (828) 271-4876
TDD : (828) 271-4010
Email : ncdc.orders@noaa.gov

NOAA/National Centers for Environmental Information
Attn: User Engagement & Services Branch
151 Patton Avenue
Asheville, NC 28801-5001