

TAFB METEOROLOGICAL DATA

The following meteorological information was provided by Detachment 1, 17th Weather Squadron, Tinker AFB, Oklahoma.

TAFB's climate is officially classified by the USDA as warm subhumid with pronounced day-to-day changes and gradual seasonal changes, although the changes of seasonal weather conditions are very dramatic. Summer temperatures above 90 degrees Fahrenheit (F) are not uncommon, occurring on the average 71 days during the year. The maximum-recorded temperature is 109 degrees (F). Temperatures in the winter on the average are not frigid, but when combined with gusty winds can yield wind-chill temperatures in the below 0 degrees (F) range. The lowest recorded temperature at Tinker is -7 degrees (F). Temperatures below 30 degrees (F) occur on the average 86 days of each year. Temperatures in the spring and fall are generally mild with warm days and cool nights. The average amount of measurable precipitation per year is 33.3 inches. The average number of days per year with measurable precipitation is 75. Of the 75, an average of 47 are thunderstorms and 6 are snowfall. Winds on the average are from 12-14 mph (highest recorded - 87 mph) and predominant direction is from the south-southeast.

The following statistical summary has been compiled from weather observations taken at TAFB from January of 1943 through March of 1984 for averages, and January 1943 through June of 1990 for extremes.

MONTH	MAX. TEMP. (F)	AVERAGE HIGH TEMP. (F)	AVERAGE LOW TEMP. (F)	MIN. TEMP. (F)	AVERAGE PRECIPITATION (INCHES)	AVERAGE HUMIDITY (PRESENT)
JAN	80	46	27	-7	1.3	60
FEB	85	52	32	-1	1.3	62
MAR	91	60	39	-1	2.3	59
APR	98	71	51	25	3.1	61
MAY	104	78	59	35	6.1	68
JUN	106	87	68	51	4.1	67
JUL	109	92	72	53	3.3	60
AUG	107	92	71	56	2.3	61
SEP	107	84	64	37	3.3	62
OCT	98	74	53	26	2.9	58
NOV	84	60	40	11	1.9	62
DEC	85	50	31	0	1.4	59

The following are general descriptions of seasonal weather conditions:

Spring (March-April-May-June): Spring yields the type of weather that Oklahoma is perhaps best known for; thunderstorms, sometimes severe, with locally heavy rainfall, gusty winds, hail, frequent lightning, and possibly tornadoes. Though severe thunderstorms can and have occurred during every month of the year, they are most frequent during the spring. Consequently, spring is the wettest season in Oklahoma receiving about 36% of the average annual precipitation.

Summer (June-July-August-September): Summer is best characterized as hot and humid. Temperatures above 100 degrees (F) in July and August are not uncommon. About 29% of the average annual precipitation occurs during the summer.

Fall (September-October-November-December): Fall is commonly known for warm days and cool nights. The average first frost at TAFB occurs in early November around the 7th. On the average, about 21% of Oklahoma's annual precipitation occurs in the fall. The spring, summer, and fall collectively constitute an average growing season of approximately 224 days.

Winter (December-January-February-March): The winter season is not only Oklahoma's coldest season but is also the driest. Roughly 14% of Oklahoma's average annual precipitation occurs during the winter. The average annual latest frost in Oklahoma occurs on about the 28th of March.