U. S. Department of Commerce, Weather Bureau
In Cooperation with Homestead-Redland District Chamber of Commerce
Climatography of the United States No. 20 - 8

Latitude 25° 30'
Longitude 80° 30'
Elev. (Ground) 11 ft.

Station - Homestead, Florida

Means and Extremes for Period 1910-1961

LIBRARY
DEC 28 1962
WEATHER BUREAU

MONTH	TEMPERATURE (°F) MEANS: DAILY MAXIMUM	DAILY MINIMUM	MONTHLY	EXTREMES: RECORD HIGHEST	YEAR	RECORD LOWEST	YEAR	** MEAN DEGREE DAYS	PRECIPITATION TOTALS (Inches): MEAN	GREATEST DAILY	YEAR	SNOW, SLEET: MEAN	MAXIMUM MONTHLY	YEAR	GREATEST DAILY	YEAR	MEAN NUMBER OF DAYS: PRECIP. .10 INCH OR MORE	TEMPERATURES: MAX. 90° AND ABOVE	MAX. 32° AND BELOW	MIN. 32° AND BELOW	MIN. 0° AND BELOW	MONTH
(a)	50	50	50	48		48		11	52	48		52	52		52	52	11	22		49		
Jan.	78.0	54.3	66.2	89	1921	27	1956+	88	1.80	2.44	1945	0	0	0	0	0	3	0	0	1	0	Jan.
Feb.	79.2	54.4	66.8	92	1942	26	1943	52	1.76	2.33	1921	0	0	0	0	0	4	*	0	*	0	Feb.
Mar.	81.8	57.1	69.5	93	1950	26	1941	27	2.24	4.40	1921	0	0	0	0	0	4	1	0	*	0	Mar.
Apr.	84.6	61.2	72.9	95	1945	39	1931	1	3.62	6.38	1942	0	0	0	0	0	5	4	0	0	0	Apr.
May	87.4	65.2	76.3	97	1928	47	1960	*	6.78	7.86	1958	0	0	0	0	0	8	8	0	0	0	May
June	89.6	69.1	79.4	100	1944	56	1955	0	8.51	6.47	1936	0	0	0	0	0	11	17	0	0	0	June
July	90.3	70.6	80.5	100	1942	63	1952+	0	8.10	4.11	1952	0	0	0	0	0	13	22	0	0	0	July
Aug.	91.0	71.0	81.0	98	1956+	64	1951+	0	7.96	4.61	1932	0	0	0	0	0	14	25	0	0	0	Aug.
Sept	89.5	70.8	80.2	98	1917	61	1950	0	9.58	10.04	1935	0	0	0	0	0	13	16	0	0	0	Sept.
Oct.	86.2	67.3	76.8	95	1951+	42	1953+	1	8.61	11.50	1933	0	0	0	0	0	10	3	0	0	0	Oct.
Nov.	81.6	60.4	71.0	92	1919	30	1950	12	2.76	11.00	1912	0	0	0	0	0	4	*	0	*	0	Nov.
Dec.	78.6	55.6	67.1	90	1921+	26	1934	60	1.32	2.08	1928	0	0	0	0	0	3	0	0	*	0	Dec.
Year	84.8	63.1	74.0	100	1944+	26	1943+	241	63.04	11.50	1933	0	0	0	0	0	92	96	0	1	0	Year

(a) Average length of record, years.
T Trace, an amount too small to measure.
** Base 65° F

+ Also on earlier dates, months, or years.
* Less than one half.

M82.2/73
U587c1
no. 20-8
7/3, Homestead

NARRATIVE CLIMATOLOGICAL SUMMARY

Homestead, in southeastern Dade County, is located at latitude 25° 30' and longitude 80° 30' about eight miles inland from the Florida east coast. The area is primarily agricultural, and weather records since 1930 are from the Sub-Tropical Experiment Station in the Redlands area about three miles northwest of the city. Citrus, mango and avocado groves dot the area, along with farms producing large quantities of tender winter-grown vegetables such as tomatoes, beans and potatoes. The soil is rocky, having been originally mostly coral. In cultivated areas the broken coral is interspersed with a sandy topsoil.

The climate of Homestead is essentially sub-tropical, featured by long, warm summers with abundant rainfall and mild, dry winters. The daily range of temperature in inland areas is nearly twice that along Biscayne Bay, indicating a sharp reduction in the marine influence from the Atlantic Ocean. The average annual rainfall for Homestead is one of the heaviest in the State. Unlike the beach areas, most of the rainfall in the Homestead section occurs as afternoon or evening showers and thundershowers during the six-months period from May through October when 79% of the annual total is recorded.

Killing frost and/or freezing temperatures occur, on the average, about once a year with January the most likely time, although they have occurred as early as November and as late as March. Further information about frost and freezing temperatures is available in publications of the Federal-State Frost Warning Service, Lakeland, Fla.

Tropical hurricanes occasionally effect the area, the months of greatest frequency being September and October. One of the most severe hurricanes occurred September 15, 1945, when great destruction was wrought at the nearby Richmond Naval Air Base. Records indicate an average two-minute maximum wind velocity of 170 mph. It was estimated that the wind reached 196 mph for a few seconds in that storm. However, studies show that winds of more than 75 mph may be expected in the area only about once in seven years. Further storm statistics appear in the publication "Florida Hurricanes" by Gray and Norton, available from the Superintendent of Documents, Washington 25, D. C.

HOMESTEAD, FLORIDA - STATION HISTORY

Temperature and precipitation data have been recorded in the vicinity of Homestead almost continuously since July 1910. Mr. W. J. Krome was the first observer and served in that capacity from July 1910 through August 1912. Subsequent observers and their tenure are as follows: J. A. Kahl, November 1912 through February 1915; A. H. Waldin, April 1915 through November 1924; G. LaMonte Graw, September 1925 through March 1926; G. W. Dane December 1926 through April 1930; and J. L. Brown September 1930 through January 1931. In July 1930 the University of Florida Sub-Tropical Experiment Station began keeping daily precipitation records and in September 1930 added daily records of temperature. The Experiment Station observing post was named an official U. S. Weather Bureau cooperative station in February 1931 and employees of the Experiment Station have kept the Homestead weather records continuously since that date.

Thermometers have been exposed about five feet above ground in a standard instrument shelter at all times. Exact station locations prior to 1931 are not known precisely but records indicate the station was located in rocky pine land about 8 miles from the coast. Since 1931 the station has been located on the grounds of the Sub-Tropical Experiment Station in a sodded area. The limited information available indicates all the station locations were within 2 or 3 miles of the present location. The rain gage has enjoyed a ground exposure throughout the history of the station.

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

Average Temperature (°F)

Stations	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1910								80.9	79.5	76.6	66.6	61.0	-
1911	68.0	66.4	69.4	74.4	75.0	77.4	79.6	80.8	80.4	79.2	75.4	70.8	74.7
1912	60.2	62.8	74.0	76.4	78.4	80.5	80.2	83.2	81.0	79.6	72.2	70.8	75.6
1913	70.5	69.9	75.0	70.6	74.8	77.8	81.1	81.0	79.1	76.1	71.7	68.8	74.7
1914	65.8	66.6	62.7	74.4	74.6	79.9	81.0	80.6	80.0	76.3	71.3	68.5	73.5
1915	67.2	66.2	62.3	69.2	79.1	80.4	81.4	82.4	81.0	79.4	72.4	65.8	73.9
1916	71.8	65.7	66.4	70.6	77.4	79.0	80.4	80.8	80.0	77.0	72.6	67.4	74.1
1917	67.8	64.4	72.0	71.0	75.0	79.5	80.4	80.0	79.8	77.4	66.2	63.7	73.1
1918	62.4	69.4	71.8	74.0	75.7	80.6	80.2	81.0	80.3	80.3	71.8	66.4	74.5
1919	65.5	66.7	71.8	71.4	77.2	78.8	81.1	81.5	79.6	78.6	72.1	66.4	74.2
1920	66.8	64.2	68.0	75.6	76.0	77.5	80.4	80.1	79.6	74.0	71.4	69.8	73.6
1921	66.3	68.0	70.8	73.2	74.2	78.6	81.0	81.0	80.8	79.4	75.3	69.6	74.8
1922	64.8	69.2	70.7	74.0	76.7	80.2	80.0	82.2	81.6	77.5	73.8	70.6	75.1
1923	67.4	68.6	71.7	75.2	78.6	82.4	82.2	82.2	83.4	74.8	67.6	69.1	75.3
1924	67.0	63.3	68.3	74.6	81.3	85.3	83.4	85.4	80.9	79.0	72.0	71.0	76.0
1925	-	-	-	-	-	-	-	-	80.6	79.4	-	-	-
1926	65.7	66.9	67.2	-	-	-	-	-	-	-	-	66.7	-
1927	63.4	69.2	69.3	72.8	77.2	80.4	80.5	80.2	79.6	76.6	72.0	67.2	74.0
1928	64.6	71.1	72.9	74.6	76.6	80.0	81.5	81.8	80.6	78.0	71.6	65.7	74.9
1929	69.4	71.0	73.3	75.0	78.2	78.6	79.0	80.7	80.7	75.6	74.9	68.4	75.4
1930	71.4	68.2	68.8	72.4	79.0	79.5	81.8	80.7	80.8	75.6	68.7	64.8	74.3
1931	63.9	63.1	63.3	70.2	75.2	79.1	81.5	81.8	80.5	77.0	72.2	72.2	73.3
1932	69.5	71.1	69.0	71.0	75.6	80.2	81.6	80.9	80.4	76.6	68.6	69.0	74.5
1933	66.2	68.6	68.2	73.5	77.9	78.0	79.8	80.4	80.2	76.4	67.7	66.2	73.6
1934	65.8	64.1	68.8	71.7	76.0	78.6	79.3	79.6	79.2	76.0	70.4	65.6	72.9
1935	64.8	64.6	70.5	74.1	77.8	78.6	79.4	80.5	79.0	76.4	68.8	60.4	72.9
1936	66.2	67.0	67.2	72.8	75.2	78.2	80.1	79.9	79.4	78.6	70.8	68.8	73.7
1937	72.3	66.8	69.2	72.6	74.5	79.2	79.7	80.3	78.8	75.3	69.4	64.5	73.6
1938	65.1	66.4	70.4	71.8	76.4	78.3	78.8	80.4	80.1	74.2	72.0	65.4	73.3
1939	65.8	71.3	70.0	74.7	76.4	79.1	80.0	80.0	79.6	77.6	69.4	63.6	74.0
1940	59.8	62.1	66.6	69.5	73.9	79.1	80.4	80.4	78.4	73.2	69.5	70.2	71.9
1941	64.1	62.8	65.2	71.0	73.1	78.8	79.9	80.9	79.2	77.8	72.0	70.4	72.9
1942	64.3	61.7	68.3	70.3	74.3	79.2	80.7	80.0	79.9	75.4	70.2	68.6	72.7
1943	67.4	62.2	68.8	70.8	76.5	78.2	78.9	80.2	79.3	73.6	69.7	64.5	72.5
1944	63.5	68.4	73.0	75.2	74.6	80.3	80.9	80.8	80.3	74.2	67.6	63.6	73.5
1945	64.4	67.9	71.2	75.4	75.0	79.8	80.1	80.4	79.6	76.6	69.2	66.0	73.8
1946	67.2	68.6	70.7	73.4	77.4	79.0	79.8	80.4	79.4	76.4	74.0	70.4	74.7
1947	70.8	62.3	66.4	76.2	76.4	79.0	79.7	80.5	80.2	76.3	74.6	68.2	74.2
1948	65.4	69.9	75.0	74.8	76.4	80.0	80.6	80.6	80.8	76.4	75.2	72.3	75.6
1949	68.8	71.1	69.5	74.5	75.4	78.7	80.2	80.3	80.2	77.4	67.9	69.7	74.5
1950	69.6	67.7	70.6	68.1	75.2	79.3	79.4	80.6	80.1	77.8	67.5	62.8	73.2
1951	63.0	63.3	68.4	73.1	75.9	79.7	80.5	81.9	80.9	76.7	70.6	70.1	73.7
1952	66.4	66.4	72.8	71.1	76.7	80.8	81.4	81.8	81.2	77.8	70.7	63.5	74.4
1953	64.6	68.5	71.6	73.7	78.4	80.2	81.1	81.4	81.2	74.6	71.2	68.7	74.6
1954	67.5	64.8	67.8	74.3	76.9	79.2	80.4	81.9	80.7	76.8	69.4	62.7	73.5
1955	64.5	66.7	70.1	72.9	75.6	78.3	79.8	81.6	80.3	74.8	69.8	68.5	73.6
1956	60.5	69.2	67.5	71.4	76.7	78.0	79.8	80.9	78.8	76.6	68.7	66.1	72.8
1957	67.1	70.8	68.9	75.4	77.4	79.9	80.6	81.1	80.4	75.3	73.0	65.3	74.6
1958	60.7	58.0	68.9	73.3	76.1	79.9	81.1	81.7	80.9	75.3	74.7	68.3	73.2
1959	65.5	72.8	70.1	73.4	76.3	79.4	79.7	79.9	79.5	79.1	72.9	65.8	74.6
1960	64.6	66.3	66.7	72.3	73.7	78.6	81.0	80.6	80.1	77.7	72.0	64.1	73.2
1961	62.9	67.6	70.9	71.7	76.6	79.4	80.7	81.3	80.1	75.7	71.1	66.5	73.7

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

Total Precipitation (Inches)

Stations	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1910							4.74	8.57	10.35	15.12	0.75	0.35	-
1911	0.31	0.00	0.55	3.46	8.50	5.98	10.36	6.60	8.66	5.02	10.49	1.89	61.82
1912	3.99	3.21	3.05	5.03	8.36	8.04	5.42	5.85	2.08	3.29	11.42	0.82	60.56
1913	1.99	2.13	4.52	4.37	7.33	8.61	3.60	6.72	7.65	2.18	9.28	0.60	58.98
1914	1.57	1.66	1.09	8.22	6.65	5.37	13.51	4.98	11.86	6.92	7.06	4.43	73.32
1915	3.64	3.01	1.57	1.58	6.01	15.06	9.11	4.75	10.43	5.71	2.40	0.77	64.04
1916	0.82	1.93	0.33	3.99	5.55	13.54	10.60	5.19	5.14	14.34	3.30	0.38	65.11
1917	0.63	0.36	3.98	3.14	3.16	7.75	7.77	7.99	15.84	6.62	0.26	0.40	57.90
1918	1.60	0.40	2.78	5.61	3.81	9.98	6.43	5.65	8.28	7.77	0.88	1.77	54.96
1919	1.39	3.06	3.02	2.67	7.05	12.15	5.13	12.36	5.28	2.62	1.82	0.76	57.31
1920	1.11	2.15	0.80	4.57	14.90	2.97	11.63	2.99	14.52	5.64	4.44	1.95	67.67
1921	0.00	2.90	4.95	0.52	4.34	2.20	5.37	5.90	2.07	17.17	0.00	0.70	46.12
1922	0.25	0.66	0.00	3.60	10.15	9.99	7.50	8.26	11.71	23.89	3.67	2.00	81.68
1923	0.08	0.95	0.61	5.32	15.83	9.55	7.69	8.95	9.08	4.91	0.27	0.20	63.44
1924	3.70	3.01	0.00	6.16	4.60	2.67	8.34	9.33	6.61	5.79	1.80	0.57	52.58
1925	4.49	1.63	1.59	2.31	13.80	5.02	3.44	10.68	2.94	0.43	6.52	4.79	57.64
1926	5.40	0.14	0.05	2.24	7.14	4.74	7.68	7.42	0.54	11.07	2.52	0.14	49.08
1927	1.26	4.17	1.25	2.77	0.26	4.98	7.74	6.15	10.30	11.10	0.31	0.57	50.86
1928	0.59	2.58	2.56	0.61	5.36	6.88	9.06	14.94	12.49	5.34	1.83	2.68	64.92
1929	1.36	1.34	2.55	2.86	7.32	6.30	5.57	9.30	16.40	15.78	0.61	4.89	74.28
1930	2.85	2.15	3.66	4.81	2.58	18.62	2.29	6.59	4.97	9.13	1.13	1.20	59.98
1931	5.95	1.72	4.18	7.36	3.13	1.80	3.50	4.28	13.57	6.95	1.85	0.26	54.55
1932	3.21	0.47	0.92	1.87	12.73	10.89	4.37	11.61	5.82	12.90	4.15	0.81	69.75
1933	1.39	0.20	3.05	7.74	6.18	3.75	9.27	10.69	3.37	22.95	1.39	0.33	70.31
1934	2.00	0.94	2.13	3.90	20.94	8.11	4.15	7.31	11.70	3.22	0.37	0.41	65.18
1935	0.23	0.25	0.52	5.60	3.88	11.95	8.14	7.07	18.48	7.41	5.51	0.69	69.73
1936	2.49	5.04	4.83	0.85	6.76	24.54	10.30	14.64	6.89	3.37	3.52	0.89	84.12
1937	0.65	2.70	4.41	1.26	5.52	5.01	6.84	11.79	18.59	7.41	0.37	0.55	65.10
1938	2.69	0.81	1.72	0.07	3.78	5.65	10.07	1.63	6.44	4.41	2.44	0.71	40.42
1939	0.93	0.56	0.09	1.66	5.48	12.61	9.63	5.49	8.05	16.79	0.95	1.80	64.04
1940	1.02	2.44	2.93	1.73	2.34	7.53	10.97	11.73	21.80	3.35	1.10	3.43	70.37
1941	3.50	4.31	5.40	10.24	0.90	10.01	11.09	6.52	12.52	5.34	5.01	1.63	76.47
1942	1.11	2.81	2.96	8.33	4.95	15.54	2.17	7.31	9.59	3.32	3.66	1.56	63.31
1943	1.10	0.34	0.79	0.31	4.28	4.08	13.17	11.69	9.81	8.15	2.65	0.43	56.80
1944	1.82	0.06	0.46	0.11	7.97	4.39	11.92	5.71	11.82	6.41	0.05	0.43	51.15
1945	2.66	0.57	1.30	2.12	1.28	3.40	5.63	6.43	13.99	11.50	4.06	1.34	54.28
1946	0.56	1.25	3.75	0.24	13.05	7.48	9.96	7.61	9.95	4.19	4.18	2.05	64.27
1947	1.45	1.95	1.24	3.72	5.95	22.51	13.62	12.07	10.37	15.96	3.78	1.45	94.07
1948	3.70	0.24	0.18	2.57	4.11	3.38	9.05	10.99	23.88	11.08	0.93	0.46	70.57
1949	0.25	0.87	1.63	5.65	3.43	13.17	8.83	5.31	8.97	13.61	2.44	1.16	65.32
1950	0.27	0.61	0.78	3.22	7.95	2.33	9.05	7.78	7.78	11.88	1.10	3.21	55.96
1951	0.18	2.43	0.28	4.54	3.13	3.54	12.11	7.15	5.81	5.60	0.74	0.13	45.64
1952	0.47	3.34	6.86	2.20	3.31	3.82	10.35	11.41	5.37	9.68	0.75	0.68	58.24
1953	4.21	1.73	0.60	3.83	2.82	16.11	7.73	5.20	6.91	11.25	2.91	0.69	63.99
1954	0.71	2.88	2.77	7.77	11.94	9.26	10.39	5.98	8.58	5.53	1.30	0.65	67.76
1955	0.95	0.82	0.35	2.42	3.95	11.57	5.63	8.46	8.74	6.80	1.12	1.78	52.59
1956	1.21	1.14	0.00	3.06	5.67	2.63	4.06	8.65	8.87	8.11	1.01	0.96	45.37
1957	0.77	4.65	3.31	7.90	5.21	3.80	7.32	13.08	6.15	6.96	1.09	2.98	63.22
1958	5.51	1.29	6.12	0.35	18.60	6.29	11.46	5.20	5.02	7.66	2.05	3.45	73.00
1959	1.19	2.99	7.27	2.59	7.46	14.41	10.59	6.28	10.32	13.04	9.72	1.23	87.09
1960	0.20	1.84	0.64	7.44	7.04	13.52	13.90	9.49	19.04	6.79	1.69	0.53	82.12
1961	2.54	0.99	3.66	0.04	9.23	10.47	3.08	6.01	2.71	6.02	0.90	0.10	45.75