

U. S. DEPARTMENT OF COMMERCE
WEATHER BUREAU
CLIMATOLOGICAL SUMMARY
CLIMATOGRAPHY OF THE U. S. NO. 20-8



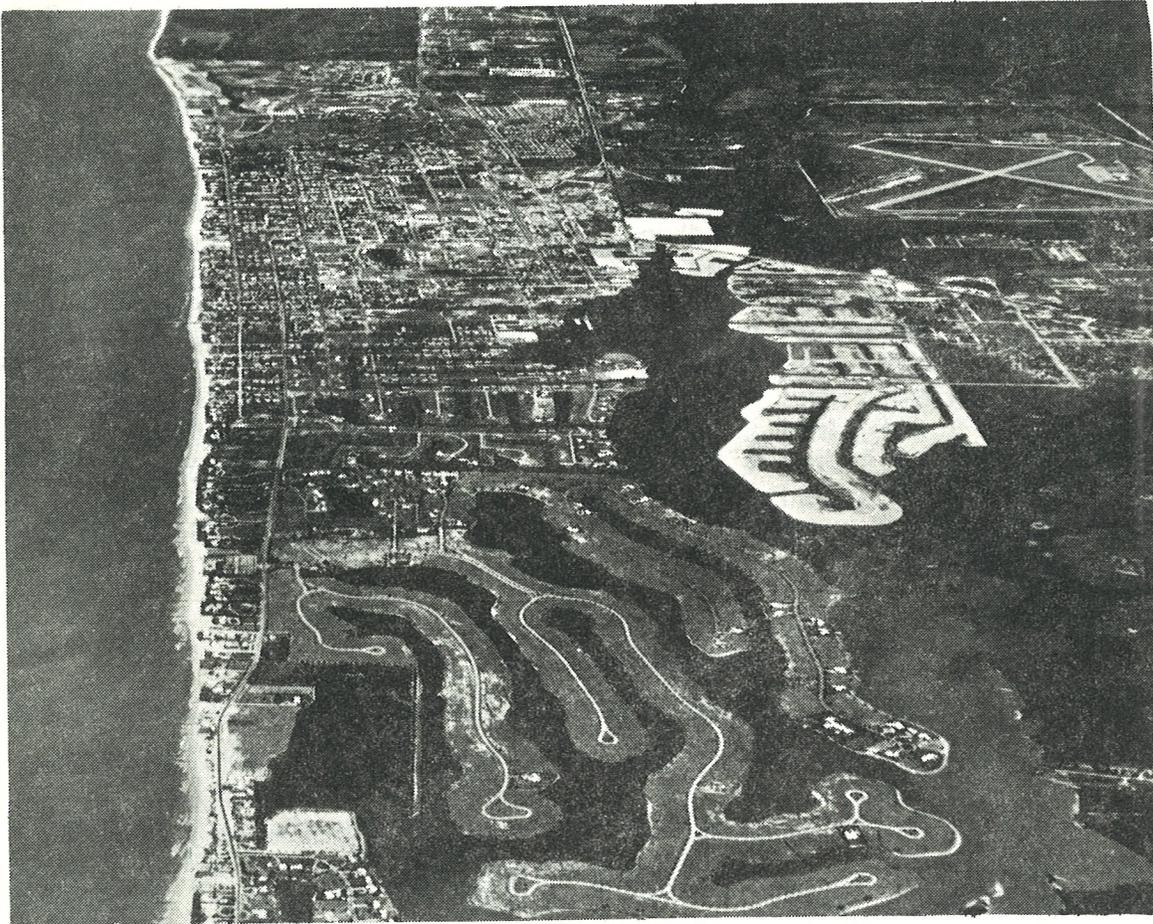
NAPLES, FLORIDA

LATITUDE
26° 10' N

ELEVATION
4 FEET

LONGITUDE
81° 47' W

Data Compiled
from
Official
U. S. Weather
Bureau Records



Prepared by
Weather
Bureau
Office,
Miami, Florida
In Cooperation
With
Greater
Naples Chamber
of Commerce

CLIMATE OF NAPLES, FLORIDA

Naples, the county seat of Collier County, is located on the coast of the Gulf of Mexico. The terrain to the east is flat, with partial wooded covering interspersed with wet-weather ponds, including the famed Big Cypress Swamp and Corkscrew Swamp. Elevations in the area vary from sea level to 22 feet.

The climate is characterized as subtropical, with a pronounced marine influence from the Gulf. Summer temperatures average in the 80s with highs in the low 90s a common occurrence. No temperature as high as 100° has occurred during the period of record, about 20 years. Winter nighttime readings average in the 50s, and only one 32° low appears in the record.

Most of the rainfall occurs during the summer wet season. Thundershowers and occasional tropical easterly waves contribute most of the rain; that falling in the winter months is primarily due to frontal passages.

An Occasional hurricane may affect the area, but the expectancy is for only one occurrence, on the average, each twelve years. Hurricane Donna, in 1960, resulted in considerable damage, passing exactly over the city, but ample warnings by the Hurricane Forecast Center at Miami allowed for complete evacuation of low-lying coastal areas and consequently no fatalities in the city.

Thunderstorms are common in the warmer months, but no detailed records are kept. Judging by the climatology of the region, thunder is heard about 90 or 100 days per year, with one or two occurrences per month in the winter and perhaps 15 or 20 in each of the summer months. Actual records of fog are scanty, but again surrounding experience indicates the likelihood of dense fog during the cooler season on one to five days per month, mostly at night and early in the morning. —

LEONARD G. PARDUE
METEOROLOGIST
WEATHER BUREAU, MIAMI, FLA.

Total Precipitation (Inches)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1940					1.27	4.82	10.26	5.29	13.91	0.00	0.22	2.25	
1941	5.11	4.72	3.80	7.77	0.55	3.80	6.65	10.43	6.17	1.83	2.31	0.99	54.13
1942	2.83	2.23	2.93	0.33	3.42	14.16	5.76	7.12	9.81	0.00	0.50	1.21	50.30
1943	0.10	0.66	0.74	2.17	2.30	12.43	6.74	6.12	7.38	3.23	1.24	0.15	43.26
1944	0.85	0.07	1.06	3.13	2.44	2.45	1.30	7.42	7.23	4.21	0.05	0.39	30.60
1945	2.42	0.24	0.00	2.45	0.13	6.41	8.88	12.29	8.88	3.89	1.03	1.60	48.22
1946	0.75	2.18	0.23	0.00	11.49	6.91	5.55	4.56	9.23	2.03	9.69	2.09	54.71
1947	1.29	2.20	6.31	3.94	2.52	17.97	9.57	9.07	9.68	3.13	3.06	3.03	71.77
1948	3.67	0.00	1.12	2.72	1.95	11.50	12.12	3.35	12.27	3.09	0.35	0.49	52.63
1949	0.00	0.00	0.17	1.45	3.82	9.08	14.10	9.31	13.73	7.08	1.19	0.50	60.43
1950	0.15	0.70	0.34	0.33	1.35	3.21	7.23	5.75	9.48	2.05	0.72	2.00	33.31
1951	0.81	0.74	0.36	4.69	1.46	4.47	4.61	9.54	10.30	17.52	0.01	0.24	54.75
1952	0.63	6.00	1.94	0.98	0.90	5.02	5.90	1.46	8.37	8.22	0.80	0.31	40.53
1953	2.10	1.45	4.79	4.77	0.96	3.82	12.97	10.89	9.72	6.00	0.88	1.67	60.02
1954	0.82	2.37	2.87	4.48	5.70	9.43	8.23	10.37	8.51	1.84	1.27	0.92	56.81
1955	1.52	0.31	1.23	2.02	4.85	7.96	16.42	7.98	11.02	1.49	1.14	1.73	57.67
1956	2.00	0.63	0.05	2.95	7.37	1.56	3.19	3.60	5.69	3.86	0.95	1.17	33.02
1957	0.56	4.56	6.23	2.52	2.91	6.63	6.54	10.23	15.30	3.35	0.55	2.23	61.61
1958	7.28	1.67	5.54	1.59	6.87	9.41	13.40	9.49	7.60	3.41	0.28	3.84	70.38
1959	1.57	1.38	3.36	1.38	9.04	13.06	9.69	12.59	7.26	10.70	1.79	0.68	72.50
1960	0.24	1.08	2.53	1.86	5.32	6.04	13.20	6.10	17.55	4.52	1.24	1.38	61.06
1961	4.96	1.06	0.90	0.36	4.71	8.23	8.95	4.28	3.76	1.53	0.45	0.53	39.72
1962	0.88	0.62	2.76	1.02	5.48	12.72	4.73	14.60	19.54	1.63	2.43	0.21	66.62
1963	0.71	3.42	0.13	0.60	5.49	6.41	3.13	5.16	10.61	1.26	2.25	2.87	42.04

Average Temperature (°F)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1941	62.9	61.8	65.2	72.8	75.5	84.1	85.0	85.6	82.4	80.8	72.6	71.4	75.0
1942	62.0	59.7	67.6	70.6	75.8	82.4	85.0	83.6	82.8	77.1	72.4	69.1	74.0
1943	68.0	62.6	69.4	73.0	80.0	82.5	84.2	84.8	82.3	75.8	70.0	65.6	74.8
1944	63.6	69.7	72.7	76.3	76.8	84.2	84.6	84.9	84.5	75.5	70.2	62.8	75.5
1945	63.6	68.6	73.8	77.2	76.6	82.2	83.2	83.1	82.6	78.2	70.4	65.4	75.4
1946	66.6	67.6	70.6	74.0	79.6	81.2	83.4	84.2	83.6	79.8	77.2	71.7	76.6
1947	74.0	61.2	66.3	78.8	79.6	82.4	83.0	83.7	82.7	79.0	75.8	69.8	76.4
1948	65.6	70.8	75.4	74.4	77.8	81.4	81.4	83.8	82.0	77.6	77.2	72.7	76.7
1949	69.4	72.6	69.0		77.9	81.3	83.4	84.7	84.2	81.4	69.3	71.2	
1950	73.0							82.3	81.7				
1951						79.9	81.5	83.5	82.9	77.5	69.8	68.9	
1952	64.6	64.4	72.5	71.1	76.8	81.5	82.0	83.1	82.2	77.0	71.1	64.5	74.3
1953	66.3	68.8	72.4	74.1	79.4	81.0	82.2	82.7	81.8	75.5	71.5	68.6	75.3
1954	66.4	66.1	67.1	75.9	76.9	80.9	82.3	82.7	82.3		68.4	62.4	
1955	61.9	65.4	69.9	73.4	76.3	78.5	80.8	82.6	81.3	75.4	69.6	65.6	73.4
1956	60.4	70.0	68.2	71.3	78.6	79.4	81.5	82.8	80.0	77.0	67.7	68.0	73.8
1957	68.1	70.6	70.3	76.0	78.9	81.7	83.0	82.4	81.9	75.3	73.5	64.8	75.5
1958	59.6	58.2	67.9	73.5	77.7	81.8	82.3	82.7	82.5	75.9	75.7	66.9	73.7
1959	63.8	72.9	69.8	73.6	77.8	80.8	81.7	81.9	81.6	80.9	72.3	65.8	75.2
1960	65.4	65.8	65.9	72.9	75.9	80.5	82.9	83.1			73.0	63.2	
1961	62.5	69.0	72.3	71.4	76.7	80.0	81.5	82.1	80.5	75.0	71.0	67.3	74.1
1962	65.8	68.3	67.7	70.4	75.0	79.4	82.7	82.5	81.0	76.7	66.5	62.0	73.2
1963	64.3	63.3	71.0	71.7	75.9	80.9	82.5	82.5	81.4	75.4	69.8	60.9	73.3

Month	Temperature (°F)									** Mean degree days	Precipitation Totals (Inches)							Mean number of days						
	Means					Extremes					Mean	Greatest daily	Year	Snow, Sleet					Precip. .10 inch or more	Temperatures				
	Daily maximum	Daily minimum	Monthly	Record highest	Year	Record lowest	Year	Mean	Maximum monthly					Year	Greatest daily	Year	90° and above	Max.		Min.				
																		32° and below		32° and below	32° and below	0° and below	0° and below	
(a)	21	21	21	21		21		21		24	22		22	22		22		11	21	21	21	21		
JAN	75.3	55.4	65.4	88	1947	33	1962	95	1.79	2.95	1941	0	0	-	0		3	0	0	0	0	0		
FEB	76.5	56.5	66.5	89	1945	33	1958	71	1.66	3.15	1941	0	0	-	0		3	0	0	0	0	0		
MAR	79.6	59.9	69.8	91	1945	36	1941	37	2.15	4.64	1953	0	0	-	0		4	0*	0	0	0	0		
APR	83.3	63.9	73.6	92	1958	41	1944	1	2.33	2.52	1941	0	0	-	0		4	1	0	0	0	0		
MAY	86.7	68.1	77.4	94	1953	52	1963	0	3.85	4.20	1946	0	0	-	0		7	2	0	0	0	0		
JUN	89.6	72.9	81.3	97	1941	61	1955	0	7.81	8.97	1947	0	0	-	0		10	17	0	0	0	0		
JUL	91.0	74.5	82.7	98	1948	68	1961	0	8.30	3.18	1949	0	0	-	0		13	29	0	0	0	0		
AUG	91.5	75.0	83.3	97	1943	67	1961	0	7.79	3.84	1958	0	0	-	0		12	29	0	0	0	0		
SEP	90.2	74.1	82.2	98	1946	65	1961	0	10.13	8.39	1957	0	0	-	0		13	19	0	0	0	0		
OCT	85.8	68.8	77.3	95	1944	46	1957	0*	3.99	10.70	1951	0	0	-	0		6	2	0	0	0	0		
NOV	81.0	62.1	71.6	92	1946	34	1959	17	1.43	7.94	1946	0	0	-	0		2	0*	0	0	0	0		
DEC	76.7	56.7	66.7	89	1961	27	1962	79	1.35	2.55	1947	0	0	-	0		3	0	0	0*	0	0		
Year	83.9	65.7	74.8	98	1948#	27	1962	300	52.58	10.70	1951	0	0	-	0		80	99	0	0*	0	0	Year	

(a) Average length of record, years.

Also on earlier dates, months, or years.

T Trace, an amount too small to measure.

* Less than one half.

** Base 65°F

Station History, Naples, Florida

Weather records for Naples are available beginning January 1941 and, except for some missing record during 1950 and early 1951, are nearly continuous to date. Some rainfall records for 1940, 1950, and 1951 are published here for the first time. From January 1941 through January 1950 the station was located about one mile south of the Naples Post Office on the estate of Mr. W. B. Uihlein. In August 1950 the station was moved to Crayton Cove, about one-half mile south of the Post Office. In May 1951 the equipment was moved to the site of the City Water Plant, near the City Hall. The station remained there until June 1961 when it was moved to its present site, Caribbean Gardens, which is about 2.2 miles northeast of the Post Office. Ground exposure has been provided during the entire history of the station, with little variation in elevation at any of the sites. Records available include daily temperatures and rainfall during the entire history. From January 1941 through January 1950, the observational equipment was privately owned and operated and records taken during this period include wind, barometric and hourly rainfall in addition to daily temperatures and rainfall.

Past observers and their periods of service have been as follows:

Mr. Rex Lehman	January 1941 - January 1950
Naples Chamber of Commerce	August 1950 - April 1951
City of Naples and Employees	May 1951 - May 1961
Caribbean Gardens	June 1961 -

Number of Rainy Periods of Selected Length to Expect Each Year

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Exactly --												
Two Days	1	0	0	1	1	1	2	1	1	1	1	0
Three Days	0	0	0	0	1	1	1	1	1	0	0	0
Four or More	0	0	0	0	0	1	1	2	1	1	0	0

Number of Dry Periods of Selected Length to Expect Each Year

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Exactly --												
Two Days	0	0	1	0	1	1	2	2	2	1	0	0
Three Days	0	0	0	0	1	0	1	1	1	0	0	1
Four or More	2	2	2	2	2	1	1	1	1	2	2	2

A period is charged to the month in which it begins.

Highest Temperature (°F)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1941	82	76	80	87	92	97	97	97	95	94	90	87	97
1942	83	82	84	88	90	93	96	95	96	91	89	86	96
1943	83	83	86	89	94	96	96	97	95	91	89	85	97
1944	83	85	89	90	93	96	97	96	97	95	89	84	97
1945	80	89	91	91	94	94	97	95	94	93	86	83	97
1946	84	82	84	90	92	93	95	95	98	92	92	85	98
1947	88	85	88	91	92	95	94	96	95	90	88	86	96
1948	80	86	88	87	90	94	98	95	97	92	91	88	98
1949	85	84	87	88	92	93	94	95	95	93	88	85	95
1950	86							93	94				
1951						92	94	94	93	90	86	86	94
1952		82	90	87	90	93	93	94	94	91	85	83	94
1953	83	85	87	88	94	93	93	94	92	88	87	86	94
1954	86	85	85	88	89	93	94	95	92	90	84	81	95
1955	83	83	87	88	89	92	92	93	92	90	86	84	93
1956	82	84	85	87	92	92	95	94	93	88	85	84	95
1957	86	87	86	89	93	93	94	93	94	90	90	83	94
1958	80	81	84	92	92	94	93	93	93	92	88	86	94
1959	83	88	87	89	91	92	93	93	93	92	89	88	93
1960	85	86	87	90	90	92	95	93			90	83	
1961	81	87	89			94	95	95	95	92	89	89	95
1962	87	89	86	90	91	93	95	95	93	91	85	84	95
1963	84	82	89	90	90	93	95	96	95	90	85	82	96

Lowest Temperature (°F)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1941	36	39	36	57	54	69	75	74	73	64	51	54	36
1942	40	33	39	52	60	68	72	70	68	60	50	38	33
1943	44	34	39	52	60	70	70	72	70	50	46	38	34
1944	38	45	48	41	59	71	71	72	71	48	46	30	30
1945	38	39	49	61	55	69	72	72	73	57	40	43	38
1946	40	42	49	54	65	70	72	72	72	66	59	52	40
1947	44	36	43	63	64	71	73	72	70	67	50	49	36
1948	34	44	56	59	61	66	69	72	70	60	56	50	34
1949	40	54	46	55	64	68	73	75	74	68	45	54	40
1950	59							69	69				
1951						64	70	73	72	61	43	42	
1952	38	39	49	49	56	69	71	72	70	53	50	36	36
1953	41	39	48	49	64	68	71	72	72	52	47	40	39
1954	40	47	42	57	59	63	71	69	72		48	38	38
1955	35	33	42	52	55	61	70	69	70	54	37	42	33
1956	37	47	42	52	66	65	69	70	68	61	41	40	37
1957	42	49	47	62	66	68	73	69	68	46	53	30	30
1958	36	33	44	55	56	68	70	72	71	55	59	41	33
1959	34	53	43	53	58	71	71	72	71	61	34	45	34
1960	34	37	41	48	57	65	71	70			53	37	34
1961	36	45	41	50	58	64	68	67	65	51	48	34	34
1962	33	43	38	47	53	63	71	72	69	57	40	27	27
1963	40	43	40	45	52	68	70	69	70	53	41	37	37