

1998

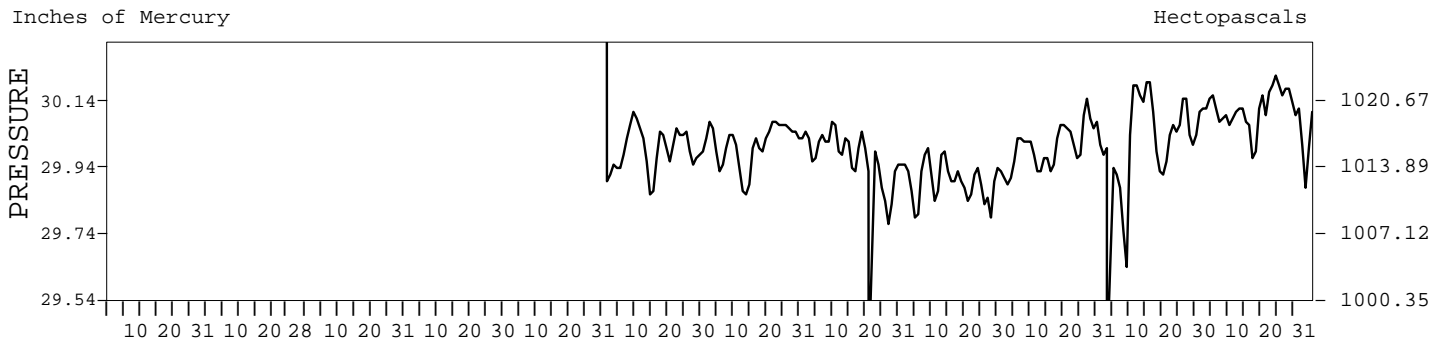
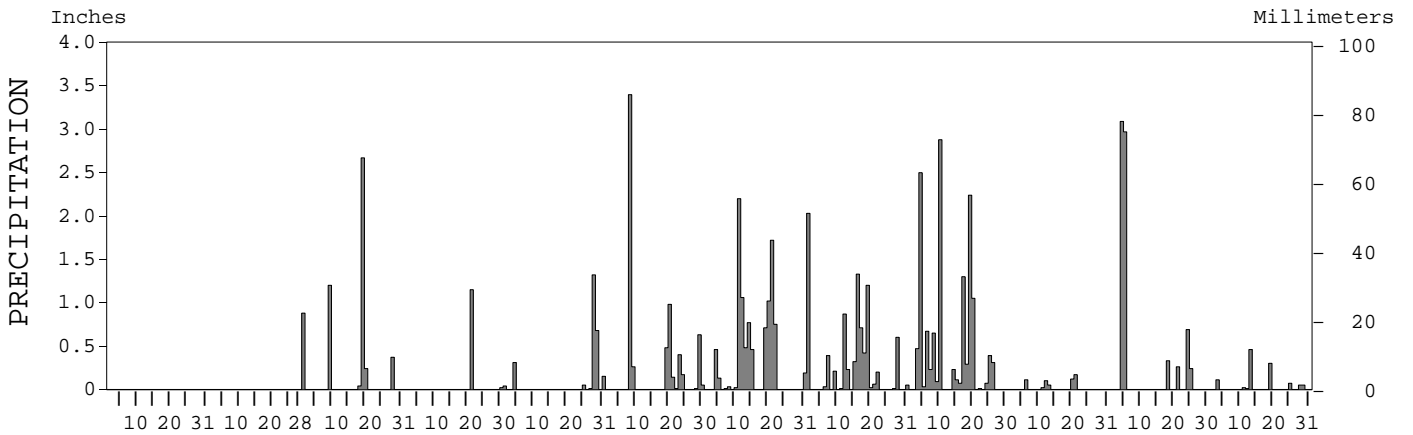
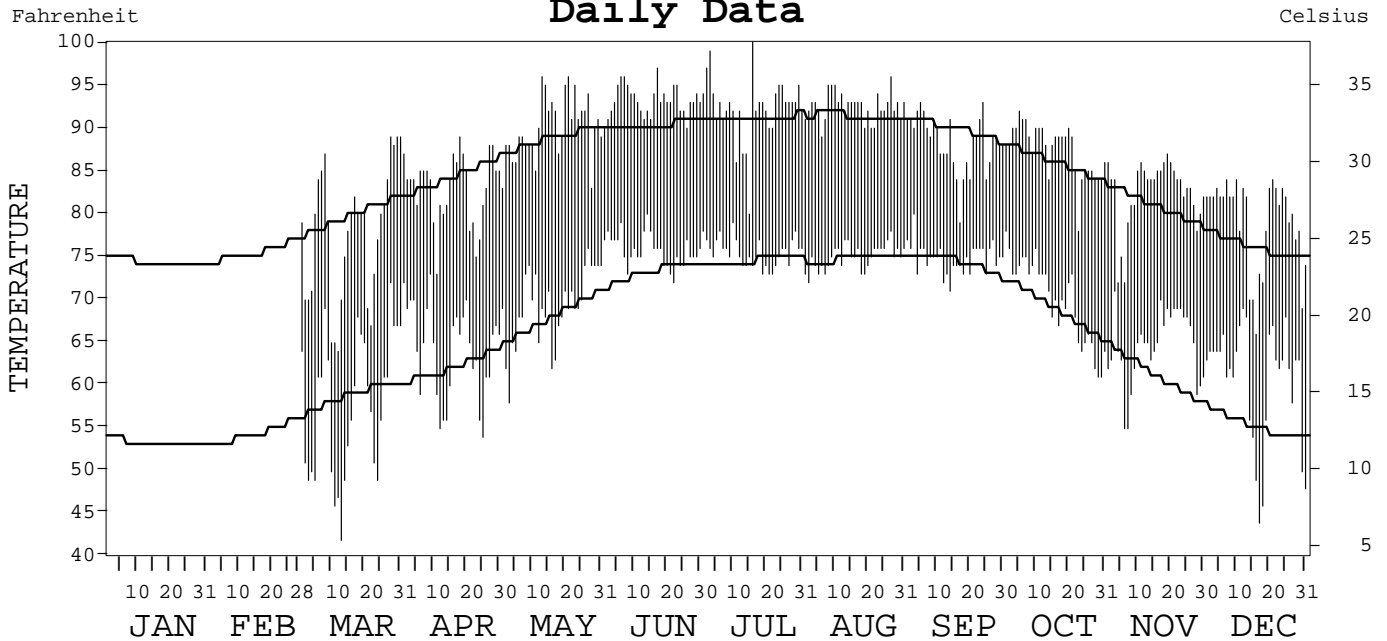
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-1358

FORT MYERS,
FLORIDA (FMY)

Daily Data



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Thomas R. Karl

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	NATIONAL ENVIRONMENTAL AND INFORMATION SERVICE	NATIONAL SATELLITE, DATA, AND INFORMATION SERVICE	NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA	DIRECTOR NATIONAL CLIMATIC DATA CENTER
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METEOROLOGICAL DATA FOR 1998

FORT MYERS, FL (FMY)

LATITUDE: 26° 35' 11" N LONGITUDE: 81° 51' 49" W ELEVATION (FT): GRND: 18 BARO: 18 TIME ZONE: EASTERN (UTC+ 5) WBAN: 12835

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE ° F	MEAN DAILY MAXIMUM			77.7	83.0	90.0	93.2	92.3	92.5	88.3	87.5	82.4	79.0	
	HIGHEST DAILY MAXIMUM			89	89	96	97	100	96	93	92	87	84	
	DATE OF OCCURRENCE			31+	18	21+	17	16	27	24+	05	19	21+	
	MEAN DAILY MINIMUM			57.6	64.1	69.1	75.7	75.6	75.0	74.9	69.9	64.5	60.5	
	LOWEST DAILY MINIMUM			42	54	58	72	73	72	71	61	55	44	
	DATE OF OCCURRENCE			13	25	03	22	22+	02	14	30+	07+	17	
	AVERAGE DRY BULB			67.7	73.6	79.6	84.5	84.0	83.8	81.6	78.7	73.5	69.8	
	MEAN WET BULB							77.2					65.4	
	MEAN DEW POINT							75.0					63.2	
	NUMBER OF DAYS WITH:													
MAXIMUM ≥ 90°			0	0	16	30	27	30	12	9	0	0		
MAXIMUM ≤ 32°			0	0	0	0	0	0	0	0	0	0		
MINIMUM ≤ 32°			0	0	0	0	0	0	0	0	0	0		
MINIMUM ≤ 0°			0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS			58	0	0	0	0	0	0	0	1	33	
	COOLING DEGREE DAYS			149	263	459	592	596	588	507	431	262	187	
RH	MEAN (PERCENT)						77	80	81	85	79	84	84	
	HOUR 01 LST						88	91	94	95	90	95	95	
	HOUR 07 LST						88	91	95	95	95	98	97	
	HOUR 13 LST						58	63	60	71	59	63	65	
	HOUR 19 LST						76	77	78	83	75	82	82	
S	PERCENT POSSIBLE SUNSHINE													
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG (VISBY ≤ 1/4 MI)			0	0	1	2	1	1	0	0	3	6	
	THUNDERSTORMS			3	2	3	13	18	19	8	2	1	0	
CLOUDINESS	AVG. SKY COVER (OKTAS)			4		4								
	SUNRISE - SUNSET													
	MIDNIGHT - MIDNIGHT													
	NUMBER OF DAYS WITH:													
	CLEAR			12	14	12								
PARTLY CLOUDY			14	12	13									
CLOUDY			5	3	6									
PR	MEAN STATION PRESS. (IN.)						29.99	30.01		29.90		30.04	30.10	
	MEAN SEA-LEVEL PRESS. (IN.)							30.04					30.13	
WINDS	RESULTANT SPEED (MPH)			2.1	0.5	0.9	1.2	0.8		1.4		2.5	3.2	
	RES. DIR. (TENS OF DEGS.)			06	21	35	33	05		15		09	07	
	MEAN SPEED (MPH)			8.8	8.1	5.8	6.2	5.2	5.6	7.3	7.1	5.4	6.4	
	PREVAIL. DIR. (TENS OF DEGS.)			08	22	30	27	13	07	10	08	08	08	
	MAXIMUM 2-MINUTE WIND:													
	SPEED (MPH)			25	22	44	46	33	33		26	32	29	
	DIR. (TENS OF DEGS.)			36	19	32	14	13	16		04	03	01	
	DATE OF OCCURRENCE			20	30	04	23	20	16		22	05	26	
	MAXIMUM 5-SECOND WIND:													
	SPEED (MPH)						55	41	45		31	38	34	
DIR. (TENS OF DEGS.)						13	14	16		03	02	01		
DATE OF OCCURRENCE						23	20	16		22	05	26		
PRECIPITATION	WATER EQUIVALENT:													
	TOTAL (IN.)			5.40	1.17	2.56	6.53	10.01	8.69	13.59	0.57	7.58	1.07	
	GREATEST 24-HOUR (IN.)			2.67	1.15	1.32	3.40	2.67	2.03	2.88	0.17	3.09	0.46	
	DATE OF OCCURRENCE			19	21	28	08	20-21	01	10	21	04	13	
	NUMBER OF DAYS WITH:													
	PRECIPITATION ≥ 0.01			6	2	7	11	15	18	19	6	6	8	
PRECIPITATION ≥ 0.10			5	1	4	8	12	12	14	4	6	3		
PRECIPITATION ≥ 1.00			2	1	1	1	4	3	5	0	2	0		
SNOWFALL	SNOW, ICE PELLETS, HAIL:													
	TOTAL (IN.)			0.0	0.0	0.0								
	GREATEST 24-HOUR (IN.)			0.0	0.0	0.0								
	DATE OF OCCURRENCE													
	MAXIMUM SNOW DEPTH (IN.)			0	0	0								
	DATE OF OCCURRENCE													
NUMBER OF DAYS WITH:														
SNOWFALL ≥ 1.0			0	0	0									

NORMALS, MEANS, AND EXTREMES

FORT MYERS, FL (FMY)

LATITUDE: 26° 35' 11" N LONGITUDE: 81° 51' 49" W ELEVATION (FT): GRND: 18 BARO: 18 TIME ZONE: EASTERN (UTC+ 5) WBAN: 12835

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	NORMAL DAILY MAXIMUM	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.0	
	MEAN DAILY MAXIMUM	0	.0	.0	77.7	83.0	90.0	93.2	92.3	92.5	88.3	87.5	82.4	79.0	72.2	
	HIGHEST DAILY MAXIMUM	0	0	0	89	89	96	97	100	96	93	92	87	84	100	
	YEAR OF OCCURRENCE				1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	JUL 1998
	MEAN OF EXTREME MAXS.	0			89.0	89.0	96.0	97.0	100.0	96.0	93.0	92.0	87.0	84.0		
	NORMAL DAILY MINIMUM	0														
	MEAN DAILY MINIMUM	0			57.6	64.1	69.1	75.7	75.6	75.0	74.9	69.9	64.5	60.5		
	LOWEST DAILY MINIMUM	0														
	YEAR OF OCCURRENCE															
	MEAN OF EXTREME MINS.	0			42.0	54.0	58.0	72.0	73.0	72.0	71.0	61.0	55.0	44.0		
	NORMAL DRY BULB	30														
	MEAN DRY BULB				67.7	73.6	79.6	84.5	84.0	83.8	81.6	78.7	73.5	69.8	65.4	63.2
	MEAN WET BULB									77.2						
	MEAN DEW POINT									75.0						
	NORMAL NO. DAYS WITH:															
MAXIMUM ≥ 90°																
MAXIMUM ≤ 32°																
MINIMUM ≤ 32°																
MINIMUM ≤ 0°																
H/C	NORMAL HEATING DEG. DAYS	30														
	NORMAL COOLING DEG. DAYS	30														
RH	NORMAL (PERCENT)															
	HOUR 01 LST															
	HOUR 07 LST															
	HOUR 13 LST															
	HOUR 19 LST															
S	PERCENT POSSIBLE SUNSHINE															
W/O	MEAN NO. DAYS WITH:															
	HEAVY FOG (VISBY ≤ 1/4 MI)				0.0	0.0	1.0	2.0	1.0	1.0	0.0	0.0	3.0	6.0		
	THUNDERSTORMS				3.0	2.0	3.0	13.0	18.0	19.0	8.0	2.0	1.0	0.0		
CLOUDINESS	MEAN:															
	SUNRISE-SUNSET (OKTAS)	1			4.0		4.0									
	MIDNIGHT-MIDNIGHT (OKTAS)															
	MEAN NO. DAYS WITH:															
CLEAR	1			12.0	14.0	12.0										
PARTLY CLOUDY	1			14.0	12.0	13.0										
CLOUDY	1			5.0	3.0	6.0										
PR	MEAN STATION PRESSURE (IN)							29.99	30.01		29.90		30.04	30.10		
	MEAN SEA-LEVEL PRES. (IN)								30.04					30.13		
WINDS	MEAN SPEED (MPH)				8.8	8.1	5.8	6.2	5.2	5.6	7.3	7.1	5.4	6.4		
	PREVAIL. DIR (TENS OF DEGS)															
	MAXIMUM 2-MINUTE:															
	SPEED (MPH)	1			25	22	44	46	33	33		26	32	29		
	DIR. (TENS OF DEGS)				36	19	32	14	13	16		04	03	01		
	YEAR OF OCCURRENCE				1998	1998	1998	1998	1998	1998		1998	1998	1998		
PEAK GUST:																
SPEED (MPH)																
DIR. (TENS OF DEGS)																
YEAR OF OCCURRENCE																
PRECIPITATION	NORMAL (IN)	30													0.00	
	MAXIMUM MONTHLY (IN)	0			5.40	1.17	2.56	6.53	10.01	8.69	13.59	0.57	7.58	1.07	13.59	
	YEAR OF OCCURRENCE				1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	SEP 1998
	MINIMUM MONTHLY (IN)	0													0.00	
	YEAR OF OCCURRENCE															DEC
	MAXIMUM IN 24 HOURS (IN)	0			2.67	1.15	1.32	3.40	2.67	2.03	2.88	0.17	3.09	0.46	3.40	
	YEAR OF OCCURRENCE				1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	JUN 1998
NORMAL NO. DAYS WITH:																
PRECIPITATION ≥ 0.01																
PRECIPITATION ≥ 1.00																
SNOWFALL	NORMAL (IN)															
	MAXIMUM MONTHLY (IN)															
	YEAR OF OCCURRENCE															
	MAXIMUM IN 24 HOURS (IN)															
	YEAR OF OCCURRENCE															
	MAXIMUM SNOW DEPTH (IN)															
YEAR OF OCCURRENCE																
NORMAL NO. DAYS WITH:																
SNOWFALL ≥ 1.0																

PRECIPITATION (inches) 1998 FORT MYERS, FL (FMY)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1998			5.40	1.17	2.56	6.53	10.01	8.69	13.59	0.57	7.58	1.07	
POR= 1 YRS	0.00	0.00	5.40	1.17	2.56	6.53	10.01	8.69	13.59	0.57	7.58	1.07	57.17

WBAN : 12835

AVERAGE TEMPERATURE (°F) 1998 FORT MYERS, FL (FMY)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1998			67.7	73.6	79.6	84.5	84.0	83.8	81.6	78.7	73.5	69.8	
POR= 1 YRS	.0	.0	67.7	73.6	79.6	84.5	84.0	83.8	81.6	78.7	73.5	69.8	64.7

HEATING DEGREE DAYS (base 65°F) 1998 FORT MYERS, FL (FMY)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1997-98 1998-	0	0	0	0	1	33			58	0	0	0	

WBAN : 12835

COOLING DEGREE DAYS (base 65°F) 1998 FORT MYERS, FL (FMY)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1998			149	263	459	592	596	588	507	431	262	187	

SNOWFALL (inches) 1998 FORT MYERS, FL (FMY)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
POR=													

WBAN : 12835

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.
 NORMALS ARE 30-YEAR AVERAGES (1961 - 1990).
 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 AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET.
 THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD.

GENERAL CONTINUED:
 CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS. WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED.
 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.

1998
FORT MYERS,
FLORIDA (FMY)

Located on the south bank of the Caloosahatchee River, about 15 miles from the Gulf of Mexico, Fort Myers has a climate characterized as subtropical, with temperature extremes of both summer and winter tempered by the marine influence of the Gulf.

Temperatures generally range from the low 60s in winter to the low 80s in summer. Winters are mild, with many bright, warm days and moderately cool nights. Occasional cold snaps bring temperatures in the 30s, but only rarely do temperatures drop into the 20s. Frost occurs in the farming areas on only a few occasions each year, and usually is light and scattered. In the summer, temperatures have reached 100 degrees, but these occurrences are very rare.

About two-thirds of annual precipitation occurs during June through September. There are frequent long periods during the winter when only very light, or no rain falls. Most rain during the summer occurs as late afternoon or early evening thunderstorms, which bring welcome cooling on hot summer days. These showers seldom last long, even though they yield large amounts of rain. Exceptions are during the late summer or fall when tropical storms or hurricanes may pass near the Fort Myers area. These may result in heavy downpours that may reach torrential proportions. Twenty-four-hour amounts of from 6 to over 10 inches may occur.

The prevailing wind direction is east and, except during the passage of tropical storms, high velocities are not experienced. During winter and spring there are usually a few days with 20 to 30 mph winds and thunderstorms are sometimes accompanied by strong gusts for brief periods. Winds approximating 100 mph have been experienced with the passage of hurricanes during the fall months.

Thunderstorms have occurred during every month, but are infrequent from November to April. From June through September they occur on 2 out of every 3 days on an average, and as a general rule, in the late afternoons or early evenings. Heavy fog is rather infrequent, occurring mostly in winter during the early mornings. There is seldom a day without sunshine at some time.

Relative humidity is high during the night, dropping off in the middle of the day.

STATION LOCATION

FORT MYERS, FLORIDA

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE											AUCIOMAPATHICORHEIHOEHOIHNZ	* Type M = AMOS T = AUTOB S = ASOS W = AWOS	REMARKS
						SEA LEVEL	GROUND												
							G	W	E	P	S	T	R	W	8	H			
<p>NOTE: For period October 1, 1891 through November 5, 1926, refer to previous editions.</p> <p>SECOND ORDER</p>																			
Elks Club, 939 1st St. (Later 228 1st Street)	11/6/26	10/31/33	2900 ft. ENE	26°39'	81°52'	12	53	6	6								3	Station moved to observer's place of employment. Instrument exposure unaffected by buildings.	
U.S. Federal Building 1st Street between Lee & Jackson Streets	11/3/33	7/27/40	2300 ft. W	26°39'	81°52'	12	58	52	52								43	Exposure of instruments on roof good.	
U.S. Federal Building 1st Street, Room 312 (4.25 mi. N of airport)	3/15/76	Present	NA	26°39'	81°52'	12	71	NA	NA	NA	60	a	NA	NA	NA	NA	NA	NWS moved from airport. Observations for in-house use only. a - Fischer-Porter raingage located at Page Field & operated by NWS.	
AIRPORT																			
Airport Administration Building, Page Field (CAA Watch House)	7/28/40	4/4/42	3.75 mi. S	26°35'	81°52'	12	31	5	5				6	3			3	CAA Station established. Exposure of instruments good.	
Airport Administration Building, Page Field (CAA Watch House)	4/2/42	3/21/44	1500 ft. NW	26°35'	81°52'	12	31	5	5				6	3			3	Building and instruments moved.	
Airport Administration Building, Page Field (Army Operations Bldg.)	3/21/44	4/15/46	1900 ft. SE	26°35'	81°52'	15	31	5	5				6	3			3	WB Observations.	
Airport Administration Building, Page Field (Army Operations Bldg.)	4/15/46	8/12/52	400 ft. SE	26°35'	81°52'	15	31	5	5				6	3			3	CAA Observations. WB public service.	
Airport Administration Building, Page Field	8/12/52	12/7/59	55 ft. SSW	26°35'	81°52'	15	41	5	5				6	3			3	Office relocated in same building as above. Thermometers 70 feet S of former location.	
FAA-WB Building + Page Field + FAA Building (Effective 3/15/76)	12/7/59	Present	3500 ft. SW	26°35'	81°52'	13 c15	20 d20	5 j	5 i5	NA	NA	5 f6 g3	3	NA d4 e4 h4	NA	NA	3	b - Commissioned 1980' NE of thermometer site 6/24/60. c - Effective 6/24/60. d - Moved 325' SSE 11/7/65. e - Moved 325' SSE 11/18/65. f - Fischer-Porter raingage installed 9/1/75, operated by NWS. Weighing raingage removed 10/1/75. g - (see f) Minor move 12/15/83. h - Type change 12/15/85. i - Minor move 12/15/85. j - Removed 12/15/85. k - closed 10/95	

SUBSCRIPTION: Price and ordering information available through: National Climatic Data Center, Federal Building, Asheville, North Carolina 28801.
 INQUIRIES/COMMENTS CALL: (828) 271-4800

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