

1998

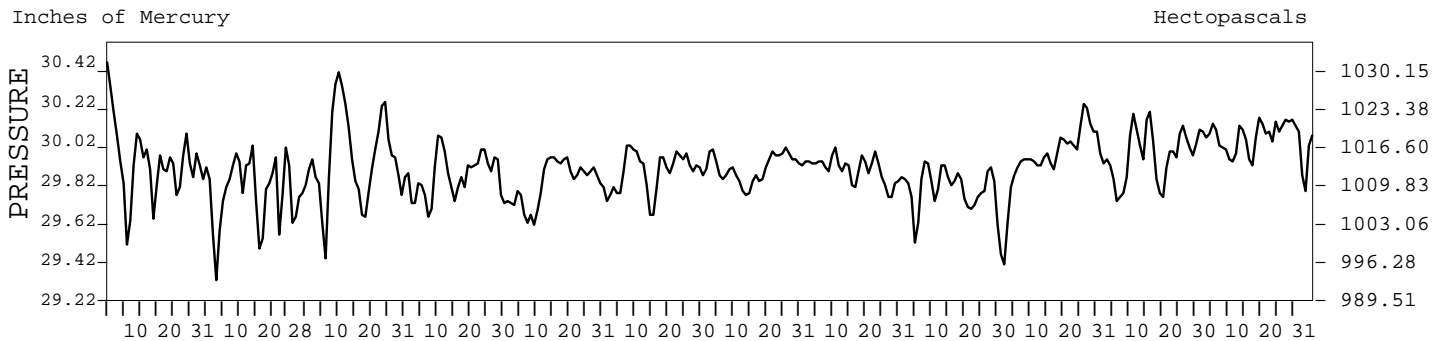
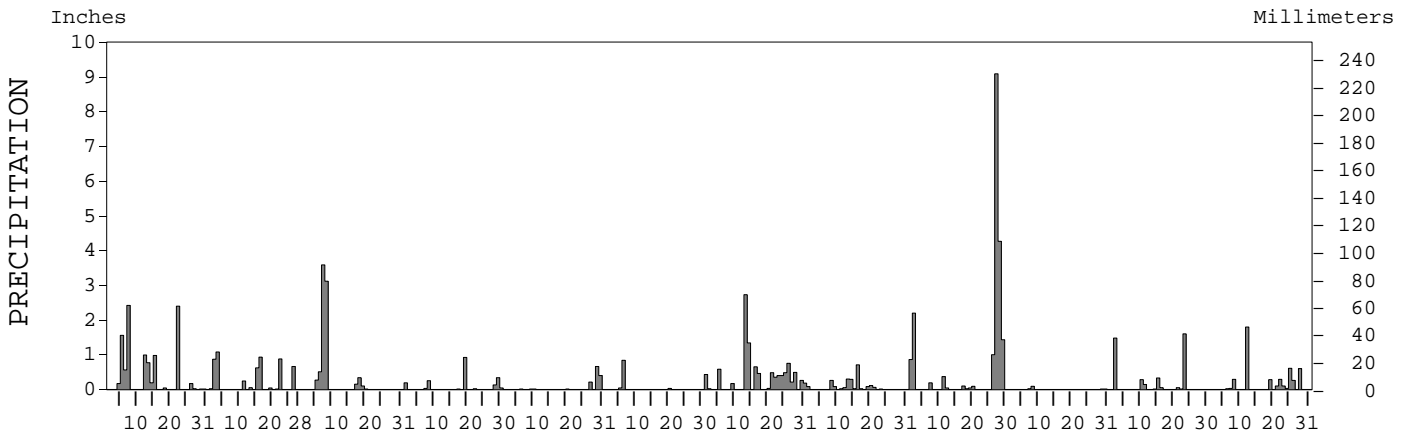
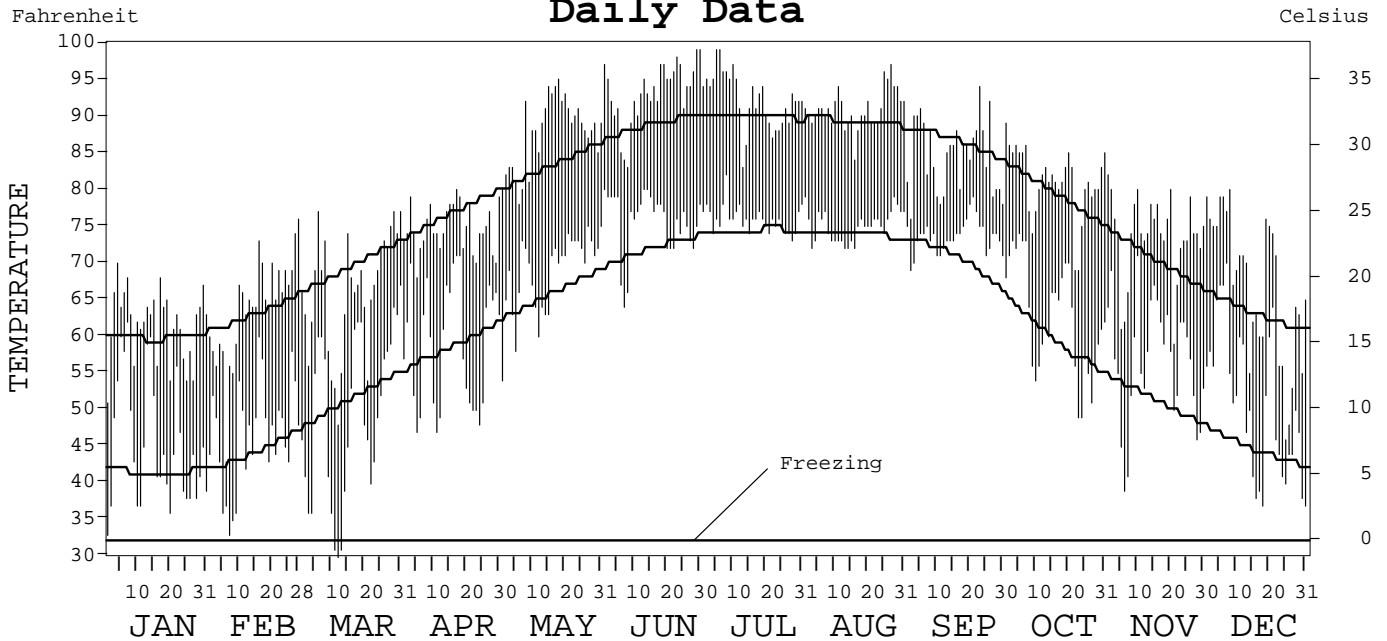
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-1404

PENSACOLA,
FLORIDA (PNS)

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

PENSACOLA, FL (PNS)

LATITUDE: 30° 28' 23" N LONGITUDE: 87° 11' 15" W ELEVATION (FT): GRND: 121 BARO: 121 TIME ZONE: CENTRAL (UTC+ 6) WBAN: 13899

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE ° F	MEAN DAILY MAXIMUM	61.7	63.9	66.1	74.6	87.7	93.2	92.2	90.9	84.5	81.0	73.6	66.8	78.0	
	HIGHEST DAILY MAXIMUM	70	76	77	80	95	99	99	97	94	89	82	80	99	
	DATE OF OCCURRENCE	04	28	31+	17	18	30+	06+	27	23	01	01	08	JUL 06+	
	MEAN DAILY MINIMUM	45.4	46.4	49.3	58.9	68.6	75.5	76.0	75.0	73.6	62.5	56.6	50.8	61.5	
	LOWEST DAILY MINIMUM	33	33	30	47	54	64	73	72	69	49	39	37	30	
	DATE OF OCCURRENCE	01	07	12	11+	01	07	28	16+	02	24+	6	31+	MAR 12	
	AVERAGE DRY BULB	53.6	55.2	57.7	66.8	78.2	84.4	84.1	83.0	79.1	71.8	65.1	58.8	69.8	
	MEAN WET BULB	50.8	50.2	53.2	61.9	71.5	76.6	77.9	76.6		65.7		55.4		
	MEAN DEW POINT	47.5	45.5	48.4	57.9	68.2	73.7	75.9	74.2		61.9		52.7		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	11	26	23	22	5	0	0	0	0	87
	MAXIMUM ≤ 32°	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	MINIMUM ≤ 32°	0	0	3	0	0	0	0	0	0	0	0	0	0	3
MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
H/C	HEATING DEGREE DAYS	347	270	245	39	0	0	0	0	0	11	69	231		
	COOLING DEGREE DAYS	0	2	24	98	415	589	600	567	431	230	80	47	3083	
RH	MEAN (PERCENT)	82	74	74	75	75	74	81	78	85	74	77	83	78	
	HOUR 06 LST	90	85	86	86	91	90	91	91	91	88	86	90	89	
	HOUR 12 LST	70	58	62	63	56	56	68	63	75	57	60	72	63	
	HOUR 18 LST	81	71	70	70	69	66	75	75	83	73	78	84	75	
	HOUR 24 LST	89	80	83	85	89	86	91	86	90	85	85	88	86	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	4	2	2	1	4	0	3	0	0	2	1	7	26	
	THUNDERSTORMS	5	5	4	2	3	5	16	14	4	0	3	1	62	
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)														
	CEILOMETER (≤ 12,000 FT.)														
	SATELLITE (> 12,000 FT.)														
	MIDNIGHT-MIDNIGHT: (OKTAS)														
	CEILOMETER (≤ 12,000 FT.)														
	SATELLITE (> 12,000 FT.)														
NUMBER OF DAYS WITH:															
CLEAR															
PARTLY CLOUDY															
CLOUDY															
PR	MEAN STATION PRESS. (IN.)	29.92	29.76	29.93	29.85	29.81	29.87	29.89	29.87	29.75	29.97	29.96	30.03	29.88	
	MEAN SEA-LEVEL PRESS. (IN.)	30.05	29.90	30.07	29.98	29.94	30.00	30.02	30.01		30.11		30.17		
WINDS	RESULTANT SPEED (MPH)	1.9	1.2	1.6	2.3	1.8	1.1	0.2	1.0	3.7	2.9	1.8	2.4	1.0	
	RES. DIR. (TENS OF DEGS.)	07	33	10	18	20	06	07	15	11	05	03	04	08	
	MEAN SPEED (MPH)	8.3	10.2	10.0	10.7	8.2	9.2	6.8	6.1	9.5	6.6	6.7	7.9	8.3	
	PREVAIL. DIR. (TENS OF DEGS.)	11	33	14	15	23	22	24	06	08	36	36	01	36	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	33	40	39	33	25	46	36	34	51	21	24	26	51	
	DIR. (TENS OF DEGS.)	21	13	16	13	33	29	19	24	12	02	16	15	12	
	DATE OF OCCURRENCE	07	15	08	29	29	06	02	16	27	22	10	12	SEP 27	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	39	55	47	43	33	55	44	49	67	32	29	36	67	
DIR. (TENS OF DEGS.)	23	12	14	13	33	28	20	25	12	02	36	15	12		
DATE OF OCCURRENCE	07	15	17+	29	29	06	02	16	27	22	11+	12	SEP 27		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	10.29	5.40	8.09	1.93	1.31	0.91	10.41	2.09	19.71	0.13	3.95	4.41	68.63	
	GREATEST 24-HOUR (IN.)	2.60	1.57	3.59	0.92	0.99	0.84	4.06	0.71	11.03	0.11	1.60	1.80	11.03	
	DATE OF OCCURRENCE	06-07	02-03	07	19	29-30	06	13-14	16	27-28	07-08	23	12-13	SEP 27-28	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	14	11	8	9	7	3	19	14	13	4	9	12	123	
PRECIPITATION ≥ 0.10	10	7	7	5	3	1	17	5	9	0	5	9	78		
PRECIPITATION ≥ 1.00	3	1	2	0	0	0	2	0	5	0	2	1	16		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)														
	GREATEST 24-HOUR (IN.)														
	DATE OF OCCURRENCE														
	MAXIMUM SNOW DEPTH (IN.)														
	DATE OF OCCURRENCE														
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0															

NORMALS, MEANS, AND EXTREMES

PENSACOLA, FL (PNS)

LATITUDE: 30° 28' 23" N LONGITUDE: 87° 11' 15" W ELEVATION (FT): GRND: 121 BARO: 121 TIME ZONE: CENTRAL (UTC+ 6) WBAN: 13899

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	59.8	62.9	69.4	76.6	83.2	88.7	89.9	89.2	86.4	79.1	70.1	62.9	76.5	
	MEAN DAILY MAXIMUM	42	61.2	63.9	69.7	76.4	83.5	89.2	90.1	89.8	86.6	79.5	69.7	63.3	76.9	
	HIGHEST DAILY MAXIMUM	35	80	82	86	96	98	101	106	104	98	92	85	81	106	
	YEAR OF OCCURRENCE		1997	1972	1991	1987	1996	1988	1980	1986	1997	1973	1973	1978	JUL 1980	
	MEAN OF EXTREME MAXS.	42	74.6	75.8	81.2	85.2	91.9	96.1	96.7	95.7	93.8	88.5	80.7	76.5	86.4	
	NORMAL DAILY MINIMUM	30	41.4	44.1	51.3	58.5	65.7	71.8	74.2	73.8	70.3	59.4	51.0	44.4	58.8	
	MEAN DAILY MINIMUM	42	43.1	45.0	51.4	58.3	65.9	72.1	74.3	73.8	70.3	59.9	50.1	44.7	59.1	
	LOWEST DAILY MINIMUM	35	5	15	22	33	48	56	61	62	43	32	25	11	5	
	YEAR OF OCCURRENCE		1985	1996	1980	1987	1997	1984	1967	1992	1967	1993	1976	1989	JAN 1985	
	MEAN OF EXTREME MINS.	42	24.8	27.3	33.7	43.6	54.3	64.0	69.7	68.7	58.8	43.5	33.4	26.7	45.7	
	NORMAL DRY BULB	30	50.6	53.6	60.4	67.6	74.5	80.3	82.1	81.5	78.4	69.3	60.6	53.7	67.7	
	MEAN DRY BULB	42	52.1	54.5	60.5	67.3	74.6	80.6	82.2	81.8	78.4	69.7	59.9	54.0	68.0	
	MEAN WET BULB	14	44.4	47.4	51.8	56.9	63.9	68.8	70.1	69.8	66.1	58.6	52.1	47.3	58.1	
	MEAN DEW POINT	14	39.7	42.6	47.3	52.6	60.5	66.0	67.8	67.6	63.3	54.7	48.2	43.3	54.5	
NORMAL NO. DAYS WITH:	MAXIMUM ≥ 90°	30	0.0	0.0	0.0	0.1	2.3	13.3	17.4	15.3	8.1	0.4	0.0	0.0	56.9	
	MAXIMUM ≤ 32°	30	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	
	MINIMUM ≤ 32°	30	7.0	3.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	4.7	17.1	
	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	471	331	184	38	0	0	0	0	0	39	183	371	1617	
	NORMAL COOLING DEG. DAYS	30	25	12	42	116	295	459	530	512	402	172	51	20	2636	
RH	NORMAL (PERCENT)	30	73	71	72	72	73	74	77	78	75	71	74	75	74	
	HOUR 06 LST	30	79	78	80	82	84	84	86	87	84	80	81	80	82	
	HOUR 12 LST	30	81	81	83	85	86	86	88	90	87	84	84	83	85	
	HOUR 18 LST	30	62	59	58	56	58	60	64	65	61	55	60	63	60	
	HOUR 24 LST	30	71	68	68	66	67	68	71	74	71	69	74	74	70	
S	PERCENT POSSIBLE SUNSHINE	5	48	53	61	63	67	67	57	58	60	71	64	49	60	
W/O	MEAN NO. DAYS WITH:															
	HEAVY FOG (VISBY ≤ 1/4 MI)	28	5.6	4.6	5.5	3.7	1.7	0.4	0.5	0.2	0.6	1.6	3.4	4.6	32.4	
	THUNDERSTORMS	28	1.8	3.0	4.2	3.8	5.3	9.8	14.7	13.7	6.5	1.7	1.9	1.5	67.9	
CLOUDINESS	MEAN:															
	SUNRISE-SUNSET (OKTAS)	29	5.2	4.7	4.8	4.3	4.4	4.4	4.7	4.6	4.2	3.6	4.0	4.8	4.5	
	MIDNIGHT-MIDNIGHT (OKTAS)	1	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	
	MEAN NO. DAYS WITH:															
	CLEAR	29	7.8	8.7	8.8	9.8	9.4	7.0	4.4	5.9	9.9	13.3	11.3	8.6	104.9	
	PARTLY CLOUDY	29	7.1	6.7	8.2	9.5	11.1	14.9	16.9	15.1	10.7	9.0	7.8	6.7	123.7	
	CLOUDY	29	16.1	12.9	14.0	10.7	10.6	8.1	9.7	10.1	9.5	8.7	10.9	15.7	137.0	
PR	MEAN STATION PRESSURE (IN)	24	30.02	29.97	29.92	29.91	29.86	29.87	29.91	29.90	29.88	29.95	29.99	30.02	29.93	
	MEAN SEA-LEVEL PRES. (IN)	13	30.14	30.09	30.06	30.02	30.00	30.00	30.05	30.02	30.03	30.06	30.11	30.16	30.06	
WINDS	MEAN SPEED (MPH)	22	9.8	10.8	11.1	12.0	9.8	9.6	7.8	7.2	9.1	8.7	9.2	9.8	9.6	
	PREVAIL. DIR (TENS OF DEGS)	17	36	36	12	14	18	22	21	18	01	36	36	35	36	
	MAXIMUM 2-MINUTE:															
	SPEED (MPH)	1	33	40	39	33	25	46	36	34	51	21	24	26	51	
	DIR. (TENS OF DEGS)		21	13	16	13	33	29	19	24	12	02	16	15	12	
	YEAR OF OCCURRENCE		1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	SEP 1998
	MAXIMUM 5-SECOND:															
SPEED (MPH)	1	39	55	47	43	33	55	44	49	67	32	29	36	67		
DIR. (TENS OF DEGS)		23	12	14	13	33	28	20	25	12	02	36	15	12		
YEAR OF OCCURRENCE		1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	SEP 1998	
PRECIPITATION	NORMAL (IN)	30	4.68	5.40	5.63	3.77	4.20	6.40	7.42	7.39	5.32	4.21	3.54	4.29	62.25	
	MAXIMUM MONTHLY (IN)	35	18.77	11.66	12.96	15.52	10.31	21.14	20.36	14.14	19.71	16.15	13.27	9.58	21.14	
	YEAR OF OCCURRENCE		1991	1966	1979	1964	1987	1994	1979	1987	1998	1995	1995	1982	JUN 1994	
	MINIMUM MONTHLY (IN)	35	0.60	1.06	0.87	0.38	0.08	0.86	1.69	2.09	0.39	0.00	0.30	0.57	0.00	
	YEAR OF OCCURRENCE		1981	1991	1967	1987	1988	1979	1970	1998	1984	1978	1981	1980	OCT 1978	
	MAXIMUM IN 24 HOURS (IN)	35	5.44	4.70	11.10	7.51	5.01	6.77	5.14	5.92	11.03	15.40	4.90	4.52	15.40	
	YEAR OF OCCURRENCE		1978	1982	1979	1964	1987	1970	1975	1987	1998	1995	1995	1964	OCT 1995	
NORMAL NO. DAYS WITH:																
PRECIPITATION ≥ 0.01	30	9.8	9.2	9.0	6.1	7.1	10.2	13.6	12.6	8.8	4.8	7.6	9.7	108.5		
PRECIPITATION ≥ 1.00	30	1.3	1.6	1.9	1.2	1.5	1.9	2.2	2.6	1.7	1.3	1.1	1.4	19.7		
SNOWFALL	NORMAL (IN)	30	0.1	0.1	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.2	
	MAXIMUM MONTHLY (IN)	34	2.5	1.9	T	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	T	2.5	
	YEAR OF OCCURRENCE		1977	1973	1993				1993					1993	JAN 1977	
	MAXIMUM IN 24 HOURS (IN)	34	1.5	1.9	T	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	T	1.9	
	YEAR OF OCCURRENCE		1977	1973	1993				1993					1993	FEB 1973	
	MAXIMUM SNOW DEPTH (IN)	39	0	2	0	0	0	0	0	0	0	0	0	0	2	
	YEAR OF OCCURRENCE			1973											FEB 1973	
NORMAL NO. DAYS WITH:																
SNOWFALL ≥ 1.0	30	0.1	0.*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1		

PRECIPITATION (inches) 1998 PENSACOLA, FL (PNS)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1969	1.82	4.98	9.26	3.48	8.35	6.93	13.98	8.24	3.09	2.56	1.28	4.39	68.36
1970	4.08	4.99	7.84	2.20	7.66	10.00	1.69	10.32	2.38	12.01	1.26	3.53	67.96
1971	1.61	5.43	3.05	0.67	3.92	5.10	6.53	7.27	4.91	T	2.37	3.71	44.57
1972	3.65	3.48	5.55	2.04	4.58	8.54	3.58	3.10	1.66	4.45	5.67	5.22	51.52
1973	3.93	4.74	11.81	7.88	3.79	3.45	12.92	4.14	6.13	3.97	1.98	7.68	72.42
1974	3.61	3.20	5.34	2.57	3.25	5.44	5.81	5.63	7.10	0.95	2.81	2.47	48.18
1975	4.51	4.28	6.06	5.50	7.07	4.56	16.03	5.04	11.53	7.21	6.54	3.17	81.50
1976	6.11	3.07	6.29	1.77	8.32	6.97	6.09	9.58	4.82	8.36	5.64	4.22	71.24
1977	4.77	1.44	4.20	3.24	2.02	1.52	5.14	6.29	4.82	2.40	4.15	2.41	42.40
1978	13.41	2.66	4.62	5.73	5.68	17.68	8.65	9.86	0.96	0.00	3.70	3.25	76.20
1979	6.42	6.17	12.96	2.58	4.01	0.86	20.36	7.52	10.94	0.57	5.45	1.78	79.62
1980	4.65	1.07	11.33	7.07	5.27	3.17	4.20	6.04	2.20	2.12	2.59	0.57	50.28
1981	0.60	5.18	3.45	1.31	6.67	1.92	4.84	4.55	2.57	3.12	0.30	4.86	39.37
1982	2.84	8.87	5.58	1.90	2.05	4.00	6.99	9.87	1.32	2.51	3.00	9.58	58.51
1983	5.32	8.82	6.68	10.78	3.92	12.20	5.05	3.82	8.29	3.65	4.42	5.33	78.28
1984	4.25	3.85	5.36	4.77	1.23	4.40	9.32	12.34	0.39	1.75	2.62	1.35	51.63
1985	4.54	5.09	4.12	2.07	5.30	7.20	4.02	7.17	5.59	14.84	3.55	5.85	69.34
1986	3.08	9.98	6.01	0.98	4.06	3.41	2.71	5.09	8.83	14.01	6.13	4.26	68.55
1987	6.51	8.18	2.99	0.38	10.31	8.11	5.94	14.14	4.43	0.33	5.29	2.08	68.69
1988	2.99	8.18	5.72	3.79	0.08	2.15	14.97	13.71	15.71	6.34	1.78	1.89	77.31
1989	1.08	1.64	6.23	3.01	6.74	16.97	11.15	2.77	6.22	2.03	7.67	4.44	69.95
1990	4.70	4.96	9.19	4.90	4.61	5.51	2.10	2.53	1.49	8.49	1.09	1.99	51.56
1991	18.77	1.06	8.20	7.05	9.40	5.87	9.93	5.72	1.38	0.67	3.28	1.67	73.00
1992	8.29	6.67	3.36	2.12	1.09	11.15	5.09	12.05	5.89	3.42	11.97	5.49	76.59
1993	3.60	4.77	7.89	4.44	2.12	4.20	5.78	7.65	7.19	6.62	1.07	6.00	61.33
1994	3.94	1.80	7.53	2.92	4.46	21.14	9.77	6.13	6.02	7.49	2.36	2.19	75.75
1995	5.73	4.40	8.87	8.45	6.52	2.71	9.40	5.18	3.62	16.15	13.27	5.54	89.84
1996	4.18	6.24	8.63	8.00	0.95	6.34	7.77	9.06	5.32	2.80	2.13	5.33	66.75
1997	7.45	6.98	4.16	6.16	7.62	6.34	16.40	4.81	2.85	3.01	9.33	5.34	80.45
1998	10.29	5.40	8.09	1.93	1.31	0.91	10.41	2.09	19.71	0.13	3.95	4.41	68.63
POR= 143 YRS	1.85	1.82	2.84	3.54	3.97	3.83	3.95	2.99	3.69	2.48	2.46	2.03	35.45

WBAN : 13899

AVERAGE TEMPERATURE (°F) 1998 PENSACOLA, FL (PNS)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1969	51.2	53.0	53.7	67.4	73.2	81.3	82.3	80.5	77.2	71.3	58.4	53.4	66.9
1970	46.4	51.3	59.8	71.1	76.1	80.6	83.1	82.2	82.2	72.1	57.3	56.7	68.2
1971	53.2	53.8	58.0	66.8	73.2	81.0	81.6	81.0	79.0	73.5	60.2	63.0	68.7
1972	58.7	55.1	61.3	68.8	74.1	79.8	81.7	83.9	82.2	71.6	58.3	56.7	69.4
1973	52.2	52.2	64.6	65.7	75.0	81.9	84.3	82.4	80.6	73.4	66.1	53.9	69.4
1974	65.7	55.8	66.7	67.8	77.3	79.4	82.4	81.1	78.4	68.2	60.4	56.5	70.0
1975	57.3	60.9	61.6	67.2	76.9	81.1	82.1	82.0	76.1	70.7	61.4	52.7	69.2
1976	51.9	59.0	63.3	69.2	71.2	78.0	80.6	80.3	76.5	62.9	51.5	49.2	66.1
1977	41.6	51.8	62.5	67.7	74.5	82.0	82.0	80.4	80.1	66.8	62.9	52.5	67.1
1978	43.0	47.1	57.5	68.2	75.8	82.1	82.9	82.8	82.0	69.9	66.5	55.6	67.8
1979	45.6	50.9	59.9	69.4	73.6	80.4	82.5	81.8	78.1	69.4	58.8	52.1	66.9
1980	55.3	51.1	60.6	65.6	75.1	81.2	85.4	83.7	81.3	65.7	57.6	50.3	67.7
1981	45.1	52.8	57.4	69.1	70.3	81.7	82.8	80.7	75.9	67.2	60.4	49.5	66.1
1982	49.8	53.9	61.4	65.8	73.0	80.4	80.1	80.1	75.7	68.9	60.7	57.1	67.2
1983	47.6	51.2	54.7	61.3	72.1	76.0	83.0	83.0	75.2	69.6	58.9	49.8	65.2
1984	47.9	53.4	59.3	66.3	74.1	80.0	80.6	80.7	78.3	75.2	58.8	61.9	68.0
1985	46.9	54.1	65.3	68.8	75.5	81.7	81.1	81.9	78.1	74.0	67.8	50.8	68.8
1986	51.0	57.5	60.1	66.7	75.0	82.1	84.6	81.6	80.3	70.4	66.8	53.0	69.1
1987	50.7	55.2	60.5	65.8	76.2	80.7	83.8	84.1	78.9	64.9	60.9	58.0	68.3
1988	48.7	51.8	59.6	68.2	74.1	80.3	81.6	81.6	78.8	66.8	63.4	54.5	67.5
1989	58.8	55.5	62.1	66.0	73.9	79.6	81.3	82.1	77.8	68.1	60.5	46.1	67.7
1990	55.2	59.7	62.9	66.2	74.2	81.7	83.1	84.0	79.9	69.6	62.0	57.7	69.7
1991	54.1	57.6	62.7	70.4	77.1	80.4	83.2	81.9	79.4	70.3	55.6	55.8	69.0
1992	51.0	57.5	60.9	66.4	73.7	80.8	83.8	80.0	78.5	68.7	58.8	57.0	68.1
1993	57.2	54.1	58.3	63.3	73.1	81.0	83.9	84.2	79.4	70.0	59.1	51.6	67.9
1994	48.9	57.9	61.7	68.6	75.0	80.5	80.3	80.6	77.9	70.5	65.1	56.9	68.7
1995	52.6	56.2	62.7	67.1	76.7	80.5	83.1	82.3	78.4	70.1	57.3	52.2	68.3
1996	49.5	53.8	55.6	64.6	76.5	80.0	82.8	81.3	79.2	69.1	60.5	55.7	67.4
1997	53.6	56.7	66.9	64.3	71.9	77.6	81.5	81.4	80.3	68.6	56.6	51.2	67.6
1998	53.6	55.2	57.7	66.8	78.2	84.4	84.1	83.0	79.1	71.8	65.1	58.8	69.8
POR= 119 YRS	52.6	55.0	60.4	67.0	74.0	79.8	81.4	81.3	78.2	69.7	60.1	54.2	67.8

HEATING DEGREE DAYS (base 65°F) 1998 PENSACOLA, FL (PNS)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1969-70	0	0	0	8	210	352	573	377	176	17	3	0	1716
1970-71	0	0	0	1	238	278	373	318	230	66	3	0	1507
1971-72	0	0	0	9	175	130	234	299	143	29	0	0	1019
1972-73	0	0	0	24	254	277	390	350	70	63	0	0	1428
1973-74	0	0	0	17	79	360	68	277	64	32	0	0	897
1974-75	0	0	0	19	185	289	253	158	162	40	0	0	1106
1975-76	0	0	12	9	199	387	404	179	103	12	1	0	1306
1976-77	0	0	0	122	402	484	717	364	144	29	0	0	2262
1977-78	0	0	0	55	108	392	673	494	248	10	0	0	1980
1978-79	0	0	0	17	23	322	592	390	168	6	4	0	1522
1979-80	0	0	0	19	194	392	293	415	169	47	0	0	1529
1980-81	0	0	0	69	231	455	610	338	235	11	0	0	1949
1981-82	0	0	7	55	172	473	475	306	176	60	1	0	1725
1982-83	0	0	3	51	159	278	532	377	316	124	1	0	1841
1983-84	0	0	4	26	211	470	524	328	192	48	3	0	1806
1984-85	0	0	0	4	209	123	566	310	62	29	0	0	1303
1985-86	0	0	0	6	49	449	429	220	179	29	0	0	1361
1986-87	0	0	0	20	67	369	441	268	161	94	0	0	1420
1987-88	0	0	0	60	156	246	506	383	182	28	0	0	1561
1988-89	0	0	0	29	107	331	208	279	154	74	2	0	1184
1989-90	0	0	2	62	167	580	302	157	96	54	0	0	1420
1990-91	0	0	0	43	112	251	332	213	134	10	0	0	1095
1991-92	0	0	0	25	299	305	423	221	157	64	8	0	1502
1992-93	0	0	0	7	212	262	240	304	225	81	0	0	1331
1993-94	0	0	0	34	213	407	493	218	146	38	0	0	1549
1994-95	0	0	0	11	72	254	381	249	121	29	0	0	1117
1995-96	0	0	0	21	240	418	474	339	302	79	2	0	1875
1996-97	0	0	0	26	181	311	376	245	46	62	4	0	1251
1997-98	0	0	0	57	257	420	347	270	245	39	0	0	1635
1998-	0	0	0	11	69	231							

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COOLING DEGREE DAYS (base 65°F) 1998 PENSACOLA, FL (PNS)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1969	2	9	4	88	263	495	544	486	375	211	19	0	2496
1970	0	0	19	206	354	474	566	542	522	230	15	28	2956
1971	14	12	20	126	263	487	523	503	428	277	37	75	2765
1972	43	16	35	149	287	449	521	592	524	236	62	27	2941
1973	0	0	65	91	318	510	605	547	473	288	115	22	3034
1974	93	24	121	125	384	440	546	505	408	125	51	35	2857
1975	22	51	64	116	377	490	537	536	350	194	96	12	2845
1976	3	13	59	147	201	394	490	480	353	66	4	1	2211
1977	0	2	75	118	300	519	531	484	462	119	50	10	2670
1978	0	0	21	113	342	522	560	560	517	175	74	38	2922
1979	0	2	16	146	276	467	546	527	401	162	16	1	2560
1980	2	20	41	72	322	493	638	586	496	99	16	4	2789
1981	0	2	7	141	173	507	559	494	340	131	42	1	2397
1982	10	1	72	91	256	469	478	477	333	180	36	43	2446
1983	0	0	1	21	227	334	568	562	316	176	32	7	2244
1984	0	0	23	93	293	459	492	495	405	329	29	34	2652
1985	11	11	79	149	333	507	505	529	398	290	140	17	2969
1986	0	18	34	88	317	520	613	523	465	195	129	7	2909
1987	3	0	29	128	352	479	590	599	423	66	39	37	2745
1988	7	5	21	133	290	466	525	518	421	90	66	12	2554
1989	20	20	70	111	286	448	516	537	395	165	39	0	2607
1990	5	17	39	94	293	510	568	596	453	195	30	31	2831
1991	1	12	69	179	383	466	568	531	441	199	23	23	2895
1992	0	13	37	112	282	481	591	472	410	128	35	18	2579
1993	6	5	24	34	258	487	591	602	439	196	44	0	2686
1994	0	24	50	150	317	471	484	491	392	189	80	10	2658
1995	1	10	61	100	370	473	569	544	406	187	19	31	2771
1996	0	24	18	74	367	453	560	513	433	161	52	28	2683
1997	30	21	113	44	223	387	519	520	465	175	11	0	2508
1998	0	2	24	98	415	589	600	567	431	230	80	47	3083

SNOWFALL (inches) 1998 PENSACOLA, FL (PNS)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1970-71	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
1971-72	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
1972-73	0.0	0.0	0.0	0.0	0.0	0.0	T	1.9	0.0	0.0	0.0	0.0	1.9
1973-74	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
1974-75	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
1975-76	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
1976-77	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	2.5
1977-78	0.0	0.0	0.0	0.0	0.0	0.0	T	T	0.0	0.0	0.0	0.0	T
1978-79	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
1979-80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T
1980-81	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
1981-82	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	T
1982-83	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
1983-84	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
1984-85	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
1985-86	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
1986-87	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
1987-88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	T
1988-89	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
1989-90	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	T
1990-91	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
1991-92	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
1992-93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T
1993-94	T	0.0	0.0	0.0	0.0	T	0.0	T	0.0	0.0	0.0	0.0	T
1994-95	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	T
1995-96	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
1996-97	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
1997-98	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
1998-													
POR= 33 YRS	T	0.0	0.0	0.0	0.0	T	0.1	0.1	T	0.0	0.0	0.0	0.2

WBAN : 13899

REFERENCE NOTES:

<p>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).</p> <p>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).</p> <p>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.</p>	<p>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.</p> <p>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 EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
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1998
PENSACOLA,
FLORIDA (PNS)

Pensacola is situated on a somewhat hilly, sandy slope which borders Pensacola Bay, an expanse of deep water several miles in width. The bay is separated from the Gulf of Mexico by a long, narrow island that forms a natural breakwater for the harbor. Elevations in the city range from a few feet above sea level to more than 100 feet in portions of the residential sections, and most of the city is well above storm tides.

The Gulf of Mexico, about 6 miles distant, moderates the climate of Pensacola by tempering the cold Northerners of winter and causing cool and refreshing sea breezes during the daytime in summer.

The average temperature for the summer months is around 80 degrees with an average daily range of 12.5 degrees. Temperatures of 90 degrees or higher occur on the average of 39 times yearly. A temperature of 100 degrees or higher occurs occasionally. The average winter temperature is in the low to mid 50s with an average daily range of 15.7 degrees. On the average, the temperature falls to freezing or below on only nine days of the year. The average occurrence of the last temperature as low as 32 degrees in spring is mid-February, and the average earliest occurrence in autumn is early December, making the average growing season 292 days. Severe cold waves are rather infrequent.

Rainfall is usually well distributed through the year with the greatest frequency normally being in July and August. The greatest monthly rainfall occurs, on average, in July and least in October. Much of the rainfall in summer occurs during the daylight hours and comes in the form of thunderstorms, often producing excessive amounts. Winter rains are frequently lighter, but extend over longer periods. Snow has occurred in about 30 percent of the winters but measurable amounts are less frequent.

A moderate sea breeze usually blows off the Gulf of Mexico during most of the day in summer. Seriously destructive hurricanes are occasionally experienced in this vicinity but loss of life is rare. Hurricanes have occurred from early July to mid-October.

STATION LOCATION

PENSACOLA, FLORIDA

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE											AUCOMPTHTO	* Type	REMARKS
						SEA LEVEL	GROUND												
							G	W	E	P	S	T	R	W	8	H			
CITY																			
Pfeiffer Building SW corner Palafox & Zarragossa Streets	10/27/79	3/31/88		30°25'	87°13'	10	53	21	20									Thermometers in window shelter.	
Custon House NW corner Palafox & Government Streets	4/01/88	6/30/09	600 ft. N	30°25'	87°13'	11	89 97	80	79			b75		a74				Thermometers in standard shelter a - 79 feet to 4/16/02. b - Added 4/16/02	
American National Bank Building NE corner Palafox & Government Streets	7/01/09	11/30/39	220 ft. E	30°25'	87°13'	11	182 185	141 150	140 149			131		131				Anemometer height changed 11/28/16. Instrument shelter moved 12/18/16 to within instrument tower.	
Post Office and Court House NE corner Palafox & Chase Streets	12/01/39	10/10/63	1850 ft. N	30°25'	87°13'	13	79	55	54			53		52				Seven story hotel building 335 feet SW of station. Relative humidity and wind data from CAA records at Hagler Field. Office moved to Hagler Field 10/10/63.	
AIRPORT																			
Municipal Airport (Hagler Field) 4 miles NNE of PO	5/10/43	Present	NA	30°28'	87°12'	a112	b22 (w81) h22	e5 g	e5	NA	d4	NA		3	c5 15	NA		CAA to 10/10/63. a - 110 feet to 5/21/52. b - 55 feet to 11/20/61. c - Commissioned 4/10/61. d - Installed 12/15/63. w - Source of "Eastest mile" data 10/10/63-4/30/69. e - Standby status after 4/10/61. f - Name changed 12/31/71. g - Removed 6/1/78. h - Minor adjustment 6/1/78. i - Type change 3/15/88	
Regional Airport f			FAA operation May-August, 1969 (Weather Bureau Office closed). Monthly Local Climatological Data not published for May-September 1969.															S ASOS Commissioned 11/25/97	

SUBSCRIPTION: Price and ordering information available through: National Climatic Data Center, Federal Building, Asheville, North Carolina 28801.
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