

2002

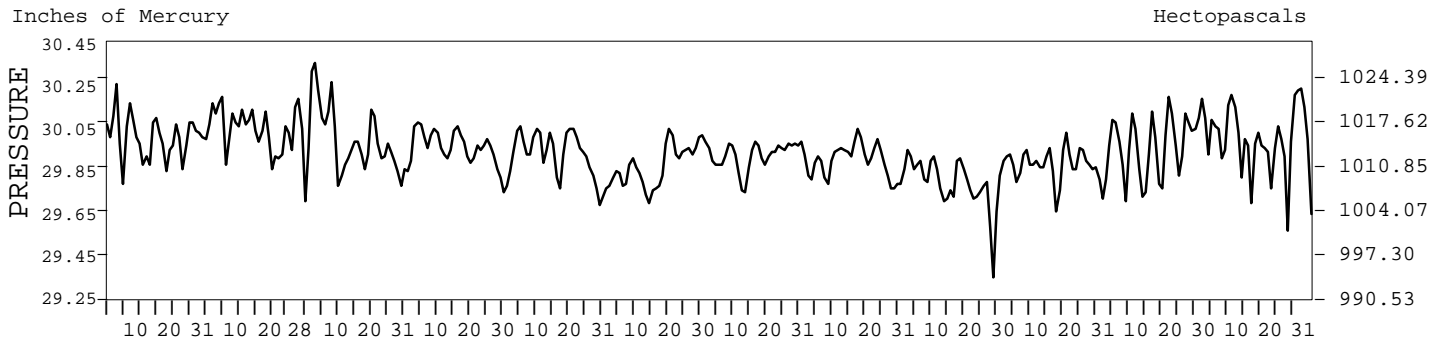
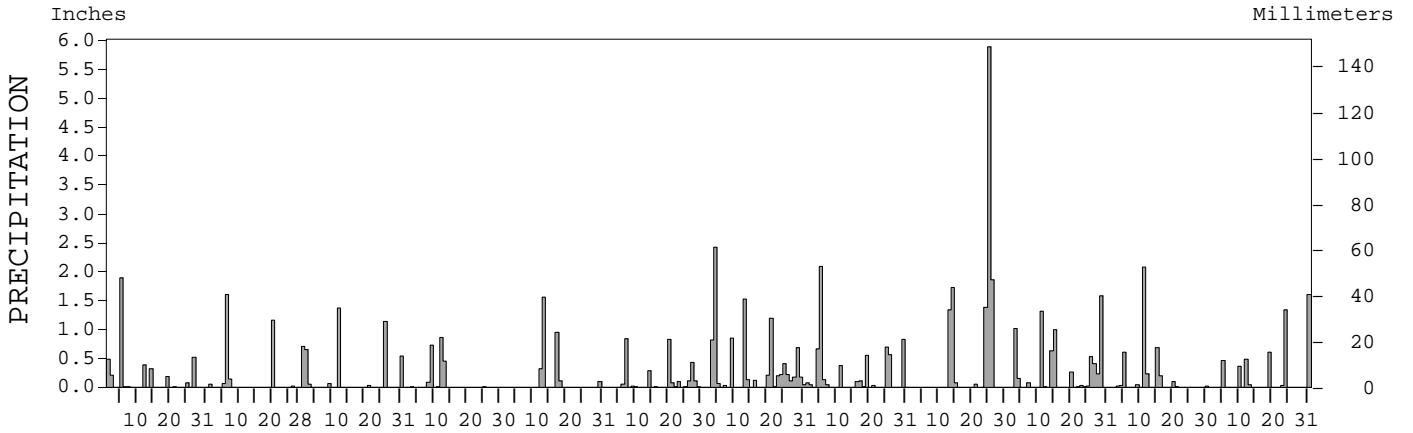
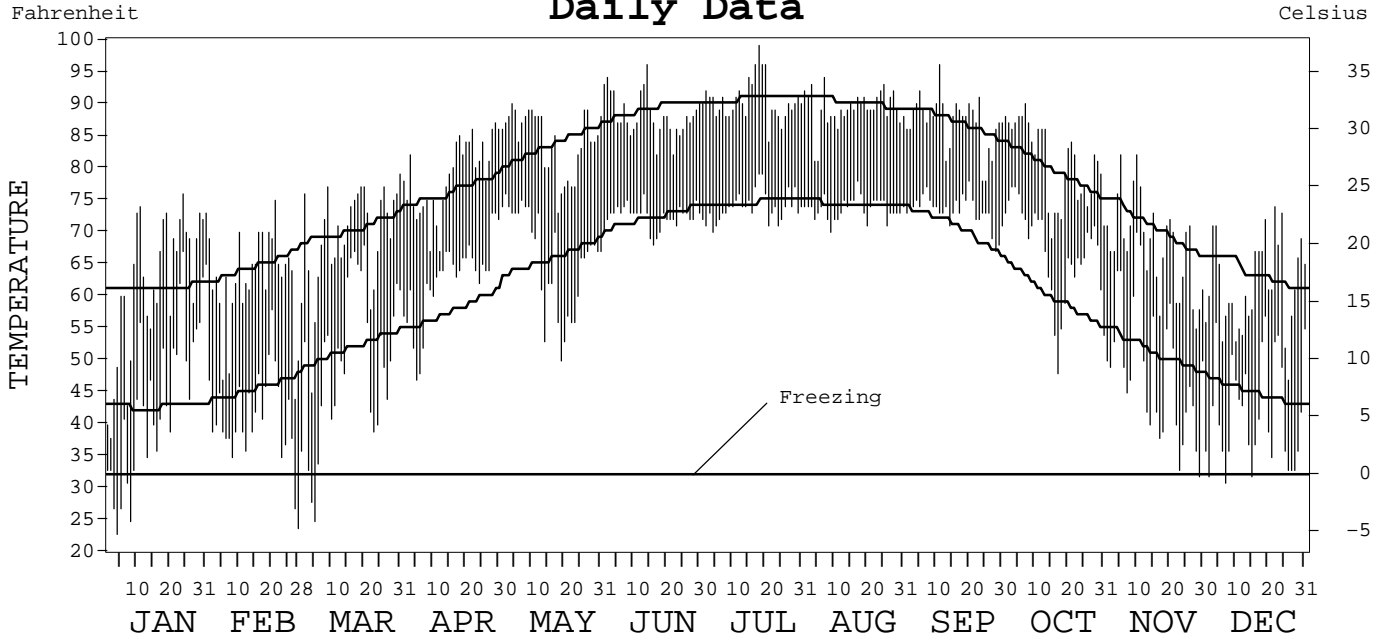
LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-1285

PENSACOLA,
FLORIDA (PNS)

Daily Data



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Thomas R. Karl

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE	NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA	DIRECTOR NATIONAL CLIMATIC DATA CENTER
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METEOROLOGICAL DATA FOR 2002

PENSACOLA, FL (PNS)

LATITUDE: 30° 28' 23" N LONGITUDE: 87° 11' 15" W ELEVATION (FT): GRND: 124 BARO: 127 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	62.2	62.3	69.3	78.7	84.2	88.3	90.5	89.2	87.2	80.8	67.9	61.8	76.9
	HIGHEST DAILY MAXIMUM	76	75	79	87	90	96	99	94	96	90	82	74	99
	DATE OF OCCURRENCE	24	21	31	29	04	14	18	07	11	07	10+	22	JUL 18
	MEAN DAILY MINIMUM	44.1	41.1	49.7	62.5	65.9	72.4	73.9	73.7	73.3	66.8	48.4	41.9	59.5
	LOWEST DAILY MINIMUM	23	24	25	47	50	68	70	70	67	48	32	31	23
	DATE OF OCCURRENCE	04	28	05	05	19	16	04	09	28	17	29	07	JAN 04
	AVERAGE DRY BULB	53.2	51.7	59.5	70.6	75.1	80.4	82.2	81.5	80.3	73.8	58.2	51.9	68.2
	MEAN WET BULB	50.5	45.4	55.0	65.3	68.5	74.0	76.1		75.1	69.3	53.7	48.2	
	MEAN DEW POINT	47.4	37.6	49.8	61.6	64.5	71.3	74.0		73.1	67.3	49.7	43.6	
	NUMBER OF DAYS WITH:													
MAXIMUM ≥ 90°	0	0	0	0	1	9	18	13	8	1	0	0	0	50
MAXIMUM ≤ 32°	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MINIMUM ≤ 32°	5	2	2	0	0	0	0	0	0	0	1	3	13	
MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0	
H/C	HEATING DEGREE DAYS	376	366	205	14	2	0	0		0	8	237	404	
	COOLING DEGREE DAYS	16	0	44	191	323	469	541	516	466	290	37	0	2893
RH	MEAN (PERCENT)	82	63	74	77	73	78	80	80	82	84	77	76	77
	HOUR 00 LST	91	71	82	85	85	89	89	89	90	90	84	83	86
	HOUR 06 LST	89	77	84	87	84	91	92	94	93	94	89	87	88
	HOUR 12 LST	68	49	61	65	57	61	64	65	67	73	62	60	63
	HOUR 18 LST	83	59	73	75	68	72	76	75	80	84	78	75	75
S	PERCENT POSSIBLE SUNSHINE													
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG (VISBY ≤ 1/4 MI)	10	2	8	4	1	1	2	3	3	3	0	1	38
	THUNDERSTORMS	0	1	4	1	4	7	18	14	1	7	3	2	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.)	30.01	30.05	29.99	29.97	29.92	29.87	29.93	29.90	29.79	29.88	29.98	29.99	29.94
	MEAN SEA-LEVEL PRESS. (IN.)	30.15	30.19	30.13	30.10	30.05	30.00	30.06		29.92	30.01	30.12	30.13	
WINDS	RESULTANT SPEED (MPH)	1.3	3.7	1.4	2.1	0.2	1.3	0.5			2.5	2.5	1.3	
	RES. DIR. (TENS OF DEGS.)	11	36	09	17	26	12	12			06	35	03	
	MEAN SPEED (MPH)	7.5	8.3	8.6	7.9	8.6	6.5	4.8	5.4	6.4	6.8	7.9	7.9	7.2
	PREVAIL. DIR. (TENS OF DEGS.)	11	35	35	35	16	16	33	06	36	36	35	34	35
	MAXIMUM 2-MINUTE WIND:													
	SPEED (MPH)	36	26	31	26	28	28	36	40	54	29	31	36	54
	DIR. (TENS OF DEGS.)	24	33	30	13	26	31	17	02	16	12	36	20	16
	DATE OF OCCURRENCE	06	01	26	08	17	14	24	25	14	03	12	24	SEP 14
	MAXIMUM 5-SECOND WIND:													
	SPEED (MPH)	47	32	45	36	35	31	40	52	66	35	40	41	66
DIR. (TENS OF DEGS.)	24	32	31	13	25	32	17	02	17	13	01	31	17	
DATE OF OCCURRENCE	06	20	26	08	17	14	24	25	14	03	12	31+	SEP 14	
PRECIPITATION	WATER EQUIVALENT:													
	TOTAL (IN.)	4.06	3.03	4.53	2.14	3.02	2.86	9.53	6.27	12.28	7.23	3.99	4.90	63.84
	GREATEST 24-HOUR (IN.)	1.90	1.68	1.37	1.21	1.56	0.84	2.43	2.09	6.43	1.58	2.19	1.60	6.43
	DATE OF OCCURRENCE	05-06	06-07	12	12-13	13	07	03-04	05	25-26	29	11-12	31	SEP 25-26
	NUMBER OF DAYS WITH:													
	PRECIPITATION ≥ 0.01	11	6	8	7	5	15	20	15	7	16	11	8	129
PRECIPITATION ≥ 0.10	7	3	5	3	4	6	16	9	5	10	5	6	79	
PRECIPITATION ≥ 1.00	1	2	2	0	1	0	3	1	5	3	1	2	21	
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: 124 BARO: 127 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	61.2	64.4	70.2	76.2	83.4	89.0	90.7	90.1	87.0	79.3	70.3	63.4	77.1
	MEAN DAILY MAXIMUM	46	61.2	64.1	69.7	76.5	83.5	89.2	90.2	89.9	86.6	79.5	69.8	63.3	77.0
	HIGHEST DAILY MAXIMUM	39	80	82	86	96	98	101	106	104	98	92	85	81	106
	YEAR OF OCCURRENCE		1997	1972	2000	1987	1996	1988	1980	1986	1997	1973	1973	1978	JUL 1980
	MEAN OF EXTREME MAXS.	46	74.6	76.1	81.2	85.4	91.9	95.9	96.8	95.8	93.8	88.3	80.9	76.4	86.4
	NORMAL DAILY MINIMUM	30	42.7	45.4	51.7	57.6	65.8	72.1	74.5	74.2	70.4	59.6	51.1	44.7	59.1
	MEAN DAILY MINIMUM	46	43.1	45.1	51.3	58.4	65.9	72.1	74.3	73.9	70.3	59.9	50.2	44.5	59.1
	LOWEST DAILY MINIMUM	39	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.	46	24.8	27.5	33.8	43.6	54.2	64.2	69.8	68.7	58.7	43.5	33.5	26.8	45.8
	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	46	52.1	54.7	60.5	67.4	74.6	80.6	82.3	81.9	78.4	69.7	60.0	54.0	68.0
	MEAN WET BULB	16	45.1	48.0	52.5	58.3	64.9	70.0	71.1	71.1	67.3	59.7	52.9	47.5	59.0
	MEAN DEW POINT	16	40.5	43.1	47.9	54.1	61.5	67.2	68.8	68.9	64.4	56.0	48.8	43.2	55.4
	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	416	299	171	48	1	0	0	0	1	35	175	352	1498
	NORMAL COOLING DEG. DAYS	30	5	11	42	107	296	466	541	529	412	174	48	19	2650
RH	NORMAL (PERCENT)	30	73	71	72	72	73	74	77	78	75	71	74	75	74
	HOUR 00 LST	30	79	78	80	82	84	84	86	87	84	80	81	80	82
	HOUR 06 LST	30	81	81	83	85	86	86	88	90	87	84	84	83	85
	HOUR 12 LST	30	62	59	58	56	58	60	64	65	61	55	60	63	60
	HOUR 18 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)	32	5.5	4.5	5.4	3.7	1.7	0.5	0.5	0.5	0.7	1.5	3.4	4.4	32.3
	THUNDERSTORMS	32	1.8	2.8	4.2	3.7	5.3	9.9	14.6	13.5	6.2	1.9	1.9	1.5	67.3
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)	27	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)	15	30.14	30.11	30.06	30.03	30.00	30.00	30.04	30.01	30.02	30.06	30.12	30.16	30.06
WINDS	MEAN SPEED (MPH)	25	9.7	10.4	10.8	11.5	9.6	9.2	7.5	7.0	8.7	8.4	8.9	9.4	9.3
	PREVAIL. DIR (TENS OF DEGS)	21	36	35	36	14	18	18	18	20	01	36	35	36	36
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	5	40	40	39	33	39	46	37	40	54	39	32	36	54
	DIR. (TENS OF DEGS)		31	13	16	13	12	29	20	02	16	22	23	20	16
	YEAR OF OCCURRENCE		1999	1998	1998	1998	1999	1998	1999	2002	2002	2001	2000	2002	SEP 2002
	MAXIMUM 5-SECOND:														
SPEED (MPH)	5	48	55	47	43	44	55	47	52	67	54	43	41	67	
DIR. (TENS OF DEGS)		30	12	14	32	12	28	23	02	12	23	24	31	12	
YEAR OF OCCURRENCE		1999	1998	1998	2000	1999	1998	1999	2002	1998	2001	2000	2002	SEP 1998	
PRECIPITATION	NORMAL (IN)	30	5.34	4.68	6.40	3.89	4.40	6.39	8.02	6.85	5.75	4.13	4.46	3.97	64.28
	MAXIMUM MONTHLY (IN)	39	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)	39	0.60	0.78	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	1999	1967	1987	1988	1979	1970	1998	1984	1978	1981	1980	OCT 1978
	MAXIMUM IN 24 HOURS (IN)	39	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	0.*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.*	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	0.1	

PRECIPITATION (inches) 2002 PENSACOLA, FL (PNS)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
1999	5.87	0.78	4.90	0.66	5.35	5.99	9.49	5.03	0.76	2.81	1.52	3.91	47.07
2000	3.06	1.25	3.92	1.87	0.38	3.91	2.34	3.49	9.99	1.06	8.14	2.96	42.37
2001	2.57	2.98	8.92	1.54	2.25	5.69	7.28	7.53	2.20	2.44	1.76	2.37	47.53
2002	4.06	3.03	4.53	2.14	3.02	2.86	9.53	6.27	12.28	7.23	3.99	4.90	63.84
POR= 147 YRS	1.92	1.83	2.93	3.50	3.95	3.88	4.05	3.08	3.77	2.52	2.51	2.08	36.02

WBAN : 13899

AVERAGE TEMPERATURE (°F) 2002 PENSACOLA, FL (PNS)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
1999	55.6	58.2	59.9	71.0	73.9	80.0	81.8	84.2	77.9	69.9	61.4	53.1	68.9
2000	54.2	57.8	63.8	65.1	76.7	80.8	85.6	83.7	77.7	69.1	58.4	48.2	68.4
2001	48.0	57.8	58.3	68.3	74.3	79.8	82.1	80.7	76.8	67.4	65.9	57.0	68.0
2002	53.2	51.7	59.5	70.6	75.1	80.4	82.2	81.5	80.3	73.8	58.2	51.9	68.2
POR= 123 YRS	52.6	55.0	60.4	67.0	74.0	79.8	81.4	81.3	78.2	69.7	60.2	54.2	67.8

HEATING DEGREE DAYS (base 65°F) 2002 PENSACOLA, FL (PNS)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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
1998-99		0	0	11	69	231	305	208	163	24	1	0	
1999-00	0	0	0	39	124	362	343	222	79	58	0	0	1227
2000-01	0	0	2	38	261	515	517	217	222	40	0	0	1812
2001-02	0	0	2	59	52	259	376	366	205	14	2	0	1335
2002-	0		0	8	237	404							

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COOLING DEGREE DAYS (base 65°F) 2002 PENSACOLA, FL (PNS)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
1999	21	21	11	210	283	457	527	601	393	200	23	2	2749
2000	15	21	47	69	370	482	645	588	392	171	71	0	2871
2001	0	22	20	146	296	450	540	495	362	140	85	19	2575
2002	16	0	44	191	323	469	541	516	466	290	37	0	2893

SNOWFALL (inches) 2002 PENSACOLA, FL (PNS)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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
1998-99													
1999-00													
2000-01													
2001-02													
2002-													
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

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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 EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
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2002 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										AUTOMATIC OBSERVING EQUIPMENT *	* TYPE M = AMOS T = AUTOB S = ASOS W = AWOS REMARKS
						SEA LEVEL		GROUND									
						GROUND	TEMPERATURE	WIND INSTRUMENT	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING GAUGE	WEIGHING RAIN GAGE	8 INCH RAIN GAGE	HYGROMETER		
*NOTE: <u>AIRPORT</u> Municipal Airport (Hagler Field) 4 miles NNE of PO Regional Airport f	5/10/43	11/25/97	NA	30°28'	87°12'	a112	b22 w81 h22	e5 g	e5	NA	d4	NA	3	c5 i5	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 "Fastest 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	
Pensacola Regional AP	11/25/97	Present	NA	30°28'	87°11'	j124									S	ASOS Commissioned 11/25/97 j. Ground elevation.	

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* NOTES: 1. For earlier station history see previous edition.
 2. FAA operation 05-08 '69 (WBO closed). MLCD not published for 05-09 '69.