

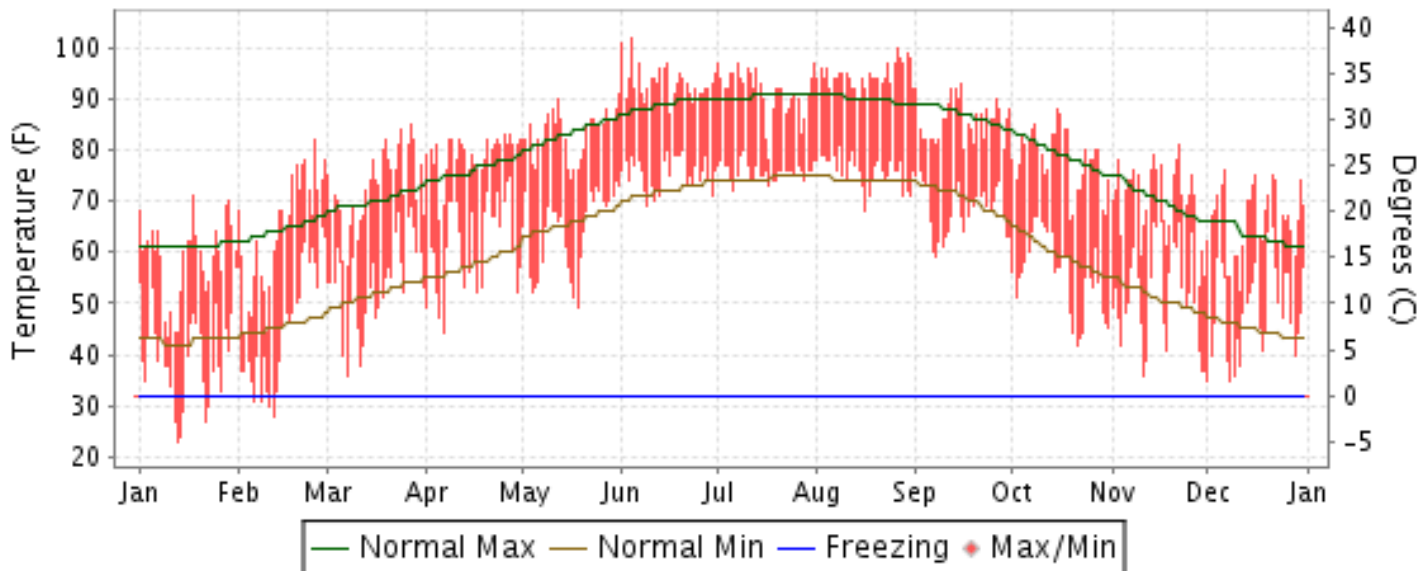


2011 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

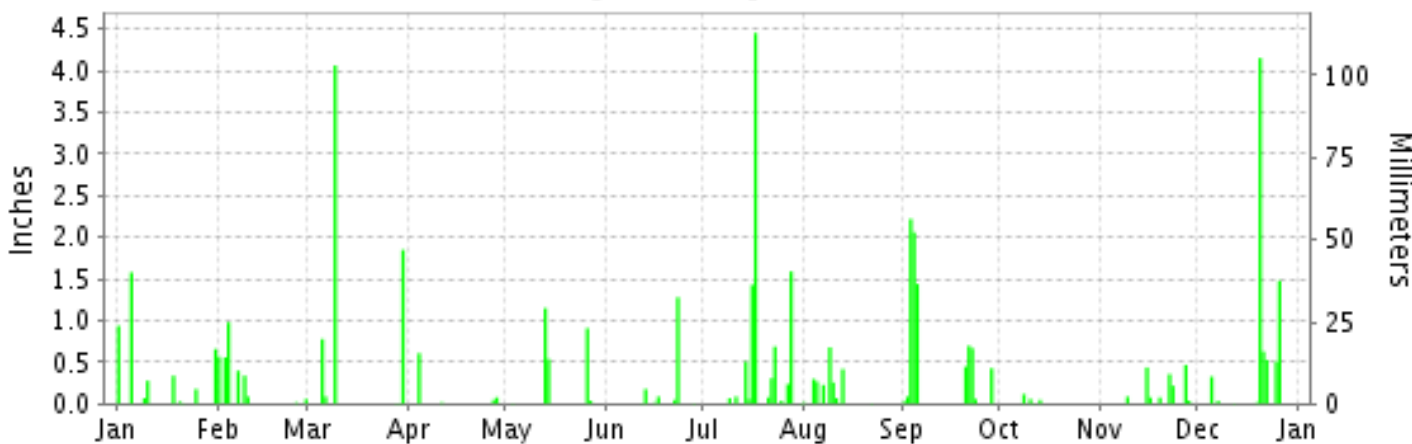
ISSN 0198-1285

PENSACOLA, FLORIDA (KPNS)

Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2011

PENSACOLA (KPNS)

LATITUDE: 30° 28'N LONGITUDE: -87° 11'W ELEVATION (FT): GRND: 112 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	58.6	64.3	72.8	79.1	83.2	93.2	91.4	94.6	85.8	78.1	70.2	66.2	78.1	
	HIGHEST DAILY MAXIMUM	71	82	85	83	91	102	97	100	93	88	81	76	102	
	DATE OF OCCURRENCE	18	25	27	27+	31	04	31+	26	15	15	22	06	JUN 04	
	MEAN DAILY MINIMUM	39.6	45.6	54.2	61.5	64.2	75.4	75.8	75.9	68.1	55.5	51.7	48.6	59.7	
	LOWEST DAILY MINIMUM	23	28	36	44	49	69	72	68	59	42	36	35	23	
	DATE OF OCCURRENCE	13	12	07	06	18	09	06	16	07	21	11	08+	JAN 13	
	AVERAGE DRY BULB	49.1	55.0	63.5	70.3	73.7	84.3	83.6	85.3	77.0	66.8	61.0	57.4	68.9	
	MEAN WET BULB	43.8		58.6	65.3	67.4	75.8	76.6	76.7	70.7	58.5	55.8	53.1		
	MEAN DEW POINT	37.1		54.7	61.1	63.5	72.1	74.1	73.2	67.7	52.0	51.4	49.4		
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	2	27	24	31	6	0	0	0	0	90
	MAXIMUM <= 32°	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MINIMUM <= 32°	6	4	0	0	0	0	0	0	0	0	0	0	0	10	
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
H/C	HEATING DEGREE DAYS	484	297	106	18	4	0	0	0	0	59	162	242	1372	
	COOLING DEGREE DAYS	0	25	68	184	281	588	584	634	364	123	50	13	2914	
RH	MEAN (PERCENT)	68	77	76	75	72	70	77	72	77	64	75	78	73	
	HOUR 00 LST	77	86	86	85	84	82	88	83	84	75	82	84	83	
	HOUR 06 LST	79	88	89	87	89	85	89	87	91	81	86	86	86	
	HOUR 12 LST	53	60	60	59	55	54	64	57	62	44	62	66	58	
	HOUR 18 LST	66	73	70	73	66	65	72	67	71	60	78	78	70	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	3	9	5	2	1	0	0	0	0	0	3	5	28	
	THUNDERSTORMS	2	0	3	2	3	12	9	9	7	0	0	2	49	
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.)	29.95	30.00	29.95	29.88	29.85	29.84	29.85	29.77	29.82	29.90	29.99	30.06	29.91	
	MEAN SEA-LEVEL PRESS. (IN.)	30.09	30.13	30.09	30.01	29.99	29.97	29.97	29.91	29.95	30.03	30.13	30.19	30.04	
WINDS	RESULTANT SPEED (MPH)	2.8	0.4	2.4	5.6	3.5	3.7	2.4	2.0	0.6	3.4	2.0	1.9	0.7	
	RES. DIR. (TENS OF DEGS.)	35	23	16	17	19	21	22	28	15	01	07	04	19	
	MEAN SPEED (MPH)	7.3	7.8	8.7	10.0	8.2	7.6	5.9	5.6	7.6	6.6	8.7	7.1	7.6	
	PREVAIL.DIR.(TENS OF DEGS.)	35	36	12	16	17	19	21	34	36	01	35	36	16	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	30	32	31	36	30	29	28	28	43	29	32	26	43	
	DIR. (TENS OF DEGS.)	31	21	15	29	22	27	25	22	19	33	21	18	19	
	DATE OF OCCURRENCE	05	01	05	04	13	13	11	07	05	18	16	22	SEP 05	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	40	51	38	53	41	37	32	37	59	45	47	35	59	
DIR. (TENS OF DEGS.)	31	22	24	30	21	34	19	22	20	33	21	28	20		
DATE OF OCCURRENCE	05	01	23	04	13	28	28	07	05	19	16	27	SEP 05		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	4.09	3.02	6.80	0.76	2.65	1.64	9.58	2.27	8.15	0.24	1.78	7.70	48.68	
	GREATEST 24-HOUR (IN.)	1.58	1.53	4.06	0.61	1.69	1.28	5.32	0.68	3.05	0.13	0.58	4.16	5.32	
	DATE OF OCCURRENCE	05	03-04	09	04	13-14	23	16-17	09	04-05	08	22-23	19-20	JUL 16-17	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	9	8	6	4	5	7	14	10	10	4	8	9	94	
PRECIPITATION 0.10	6	5	3	1	3	2	7	6	7	1	4	6	51		
PRECIPITATION 1.00	1	0	2	0	1	1	3	0	3	0	0	2	13		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)														
	GREATEST 24-HOUR (IN.)														
	DATE OF OCCURRENCE														
	NUMBER OF DAYS WITH:														
SNOWFALL >= 1.0															

NORMALS, MEANS, AND EXTREMES

PENSACOLA (KPNS)

LATITUDE: 30° 28'N LONGITUDE: -87° 11'W ELEVATION (FT): GRND: 112 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	63	61.1	63.4	69.6	75.6	83.4	88.7	89.8	89.5	86.4	79.5	69.9	63.1	76.7
	HIGHEST DAILY MAXIMUM	48	80	82	86	96	98	102	106	104	98	92	86	81	106
	YEAR OF OCCURRENCE		1997	2011	2000	1987	1996	2011	1980	1986	1997	1973	2003	1978	JUL 1980
	MEAN OF EXTREME MAXS.	63	74.7	76.2	81.3	85.3	91.9	96.0	96.7	95.9	93.8	88.6	81.1	76.5	86.5
	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	59.2
	MEAN DAILY MINIMUM	63	42.8	44.8	51.2	57.9	66.0	71.9	74.1	73.7	70.2	59.9	50.2	44.4	58.9
	LOWEST DAILY MINIMUM	48	5	15	22	33	48	56	61	60	43	32	25	11	5
	YEAR OF OCCURRENCE		1985	1996	1980	1987	1997	1984	1967	2004	1967	1993	1976	1989	JAN 1985
	MEAN OF EXTREME MINS.	63	24.6	27.9	34.2	43.4	54.3	64.6	69.8	68.7	58.9	43.6	33.7	27.2	45.9
	NORMAL DRY BULB	30	52.0	54.9	61.0	66.9	74.6	80.6	82.6	82.2	78.7	69.5	60.7	54.1	68.2
	MEAN DRY BULB	63	51.9	54.1	60.4	66.8	74.7	80.4	82.0	81.6	78.3	69.7	60.0	53.8	67.8
	MEAN WET BULB	28	48.4	51.7	55.9	61.5	68.3	73.5	75.2	75.2	71.5	63.5	57.1	50.6	62.7
	MEAN DEW POINT	27	45.7	48.7	53.4	59.2	66.3	72.1	73.9	73.9	69.9	61.5	55.1	48.2	60.7
	NORMAL NO. DAYS WITH:														
	MAXIMUM >= 90	30	0.0	0.0	0.0	0.1	2.6	13.4	19.8	18.3	9.4	0.3	0.0	0.0	63.9
	MAXIMUM <= 32	30	0.1	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2
MINIMUM <= 32	30	6.1	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	*	0.6	4.5	15.2	
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	74	74	73	73	74	75	77	79	76	73	76	76	75
	HOURLY 00 LST	30	81	80	82	82	85	85	87	87	85	81	83	82	83
	HOURLY 06 LST	30	83	83	85	86	87	87	89	90	88	85	85	84	86
	HOURLY 12 LST	30	62	59	59	57	59	60	64	64	62	56	60	64	61
	HOURLY 18 LST	30	73	69	69	66	68	69	72	73	72	70	76	76	71
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) THUNDERSTORMS	42 48	5.2 1.7	4.0 2.6	4.8 3.8	3.4 3.8	1.6 5.1	0.5 9.6	0.7 13.9	0.4 12.8	0.6 5.7	1.4 1.7	2.8 1.6	4.0 1.6	29.4 63.9
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)	28	30.01	29.98	29.92	29.90	29.87	29.87	29.90	29.87	29.86	29.92	29.97	30.01	29.92
	MEAN SEA-LEVEL PRES. (IN)	28	30.14	30.11	30.06	30.02	30.00	29.99	30.02	30.00	29.99	30.05	30.10	30.14	30.05
WINDS	MEAN SPEED (MPH)	28	8.6	8.9	9.1	9.1	8.5	7.5	6.8	6.6	7.3	7.5	8.0	8.2	8.0
	PREVAIL.DIR(TENS OF DEGS)	30	36	36	36	15	19	19	22	21	36	36	36	36	36
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	14	40	40	39	43	48	46	76	56	77	39	48	36	77
	DIR. (TENS OF DEGS)		31	13	16	33	33	29	27	14	12	22	21	20	12
	YEAR OF OCCURRENCE		1999	1998	1998	2005	2006	1998	2005	2005	2004	2001	2006	2002	SEP 2004
	MAXIMUM 3-SECOND														
	SPEED (MPH)	14	48	55	47	53	55	55	93	69	100	54	60	44	100
DIR. (TENS OF DEGS)		30	12	30	30	32	28	26	14	12	23	21	31	12	
YEAR OF OCCURRENCE		1999	1998	2010	2011	2006	1998	2005	2005	2004	2001	2006	2009	SEP 2004	
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)	48	18.77	11.66	12.96	24.46	10.72	21.14	20.36	14.14	19.71	17.45	13.27	13.75	24.46
	YEAR OF OCCURRENCE		1991	1966	1979	2005	2009	1994	1979	1987	1998	2007	1995	2009	APR 2005
	MINIMUM MONTHLY (IN)	48	0.21	0.78	0.24	0.38	0.08	0.58	1.69	2.09	0.39	0.00	0.30	0.57	0.00
	YEAR OF OCCURRENCE		2003	1999	2006	1987	1988	2006	1970	1998	1984	1978	1981	1980	OCT 1978
	MAXIMUM IN 24 HOURS (IN)	48	5.44	4.70	11.10	13.96	5.01	6.77	5.50	5.92	11.03	15.40	5.35	4.52	15.40
	YEAR OF OCCURRENCE		1978	1982	1979	2005	1987	1970	2003	1987	1998	1995	2005	1964	OCT 1995
	NORMAL NO. DAYS WITH:														
	PRECIPITATION >= 0.01	30	9.5	8.4	8.7	6.5	7.5	10.2	13.4	11.9	9.5	4.8	7.8	8.9	107.1
PRECIPITATION >= 1.00	30	1.5	1.4	2.2	1.1	1.5	1.9	2.3	2.3	1.8	1.4	1.5	1.2	20.1	
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) 2011 PENSACOLA (KPNS)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
2003	0.21	5.69	6.78	2.90	6.26	14.49	9.98	5.90	2.86	2.58	2.64	3.60	63.89
2004	1.52	9.25	0.95	2.87	0.92	11.51	8.76	6.34	7.50	3.61	9.25	7.07	69.55
2005	2.60	4.55	12.93	24.46	1.95	7.07	7.53	6.91	7.10	0.09	7.47	4.66	87.32
2006	2.99	3.76	0.24	3.31	3.50	0.58	4.27	4.83	9.83	2.82	4.02	5.11	45.26
2007	3.99	2.52	2.06	3.88	1.16	2.15	6.73	2.56	4.41	17.45	4.96	5.88	57.75
2008	6.47	5.54	2.36	3.50	3.30	6.40	5.56	4.68	4.90	7.95	2.76	3.27	56.69
2009	1.49	4.41	7.38	4.84	10.72	5.21	5.32	8.86	10.19	11.28	4.85	13.75	88.30
2010	6.07	6.03	7.22	2.73	7.98	7.55	3.70	11.87	0.62	0.38	7.33	1.48	62.96
2011	4.09	3.02	6.80	0.76	2.65	1.64	9.58	2.27	8.15	0.24	1.78	7.70	48.68
POR= 63 YRS	4.50	4.88	5.75	4.42	4.11	6.28	7.53	6.54	6.55	4.21	3.96	4.42	63.15

WBAN : 13899

AVERAGE TEMPERATURE (°F) 2011 PENSACOLA (KPNS)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
2003	47.2	54.2	63.1	67.8	77.0	79.5	79.9	81.5	77.8	69.7	63.8	50.6	67.7
2004	51.2	51.7	63.5	65.2	75.4	80.1	81.9	80.2	79.1	74.2	64.1	52.0	68.2
2005	55.5	57.8	59.6	64.7	73.8	80.1	82.7	82.2	82.1	70.2	63.2	52.6	68.7
2006	58.0	54.4	63.3	72.1	75.7	82.7	83.7	82.9	77.9	69.1	58.5	55.5	69.5
2007	53.1	53.0	63.1	65.9	74.7	81.6	82.2	84.9	80.4	71.8	60.2	58.5	69.1
2008	50.6	56.2	59.4	67.2	75.6	83.2	84.2	83.1	79.2	68.0	58.7	57.1	68.5
2009	53.3	54.1	62.5	66.0	75.8	83.0	81.8	80.2	79.2	70.6	59.6	51.7	68.2
2010	46.8	46.7	55.9	67.2	76.3	82.4	84.1	83.8	80.8	70.6	61.8	47.4	67.0
2011	49.1	55.0	63.5	70.3	73.7	84.3	83.6	85.3	77.0	66.8	61.0	57.4	68.9
POR= 63 YRS	51.9	54.1	60.4	66.8	74.7	80.4	82.0	81.6	78.3	69.7	60.0	53.8	67.8

HEATING DEGREE DAYS (base 65°F) 2011 PENSACOLA (KPNS)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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
2002-03	0		0	8	237	404	543	302	92	44	0	0	
2003-04	0	0	0	12	133	440	430	378	84	56	2	0	1535
2004-05	0	0	0	4	94	409	293	213	190	42	1	0	1246
2005-06	0	0	0	52	135	384	224	292	108	1	0	0	1196
2006-07	0	0	0	47	208	290	365	336	113	82	0	0	1441
2007-08	0	0	0	33	160	223	451	265	188	43	0	0	1363
2008-09	0	0	0	60	211	268	365	304	111	47	1	0	1367
2009-10	0	0	0	52	164	408	560	505	278	18	0	0	1985
2010-11	0	0	0	8	137	541	484	297	106	18	4	0	1595
2011-	0	0	0	59	162	242							

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COOLING DEGREE DAYS (base 65°F) 2011 PENSACOLA (KPNS)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
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
2003	0	4	40	133	379	442	467	519	390	164	104	0	2642
2004	9	0	44	70	328	460	530	478	429	295	72	12	2727
2005	7	17	27	40	282	458	558	539	521	222	85	7	2763
2006	17	4	62	221	333	540	581	554	393	179	19	5	2908
2007	4	6	63	119	308	505	542	624	468	250	25	28	2942
2008	13	17	20	117	336	553	601	571	432	161	29	30	2880
2009	12	7	39	83	342	549	529	479	435	237	8	4	2724
2010	1	0	3	93	355	530	600	589	481	189	49	1	2891
2011	0	25	68	184	281	588	584	634	364	123	50	13	2914

SNOWFALL (inches) 2011 PENSACOLA (KPNS)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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								
1998-99													
1999-00													
2000-01													
2001-02													
2002-03													
2003-04													
2004-05													
2005-													
POR= 50 YRS	T	0.0	0.0	0.0	0.0	T	0.1	T	T	0.0	0.0	0.0	0.1

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 (1971 - 2000). 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. 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.</p>	<p>GENERAL CONTINUED: 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. STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED HISTORY GO TO "MULTI-NETWORK MEDADATA SYSTEM", URL IS: https://mi3.ncdc.noaa.gov/mi3qry/login.cfm SNOWFALL STOPPED MONTH & YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.</p> <p>NOTE: The "Period of Record:(POR) for all "averages" is based on the "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p>
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2011 PENSACOLA FLORIDA (KPNS)

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 History

PENSACOLA, FL

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
HAGLER FIELD	1940-01-01	1942-02-28	30° 28'	-87° 12'			AIRWAYS
HAGLER FIELD	1943-05-01	1943-05-10	30° 28'	-87° 12'	112		AIRWAYS
PENSACOLA REGIONAL AP	1995-09-13	1997-11-25	30° 28'	-87° 12'	110		AIRWAYS
HAGLER FIELD	1937-04-01	1937-05-31	30° 28'	-87° 12'			AIRWAYS
PENSACOLA MUNICIPAL AP	1963-01-01	1971-12-01	30° 28'	-87° 12'	112		AIRWAYS, COOP, USHCN
PENSACOLA REGIONAL AP	1991-07-01	1995-09-13	30° 28'	-87° 12'	110		AIRWAYS, COOP, USHCN
PENSACOLA MUNICIPAL AP	1948-07-01	1958-12-31	30° 28'	-87° 12'	112		AIRWAYS, COOP, USHCN
PENSACOLA REGIONAL AP	1971-12-01	1991-07-01	30° 28'	-87° 12'	112		AIRWAYS, COOP, USHCN
PENSACOLA REGIONAL AP	1997-11-25	2011-04-15	30° 28'	-87° 11'	112	3.2 MI S	AIRWAYS, ASOS, COOP, USHCN
PENSACOLA REGIONAL AP	2011-04-15	Present	30° 28'	-87° 11'	112		AIRWAYS, ASOS, COOP, USHCN
PENSACOLA MUNICIPAL AP	1943-05-10	1948-07-01	30° 28'	-87° 12'	112		AIRWAYS
PENSACOLA MUNICIPAL AP	1958-12-31	1963-01-01	30° 28'	-87° 12'	112		COOP, USHCN

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
TEMP	1997-11-25	Present	DAILY	2400	HYGR		
PRECIP	1943-05-01	1991-07-01	DAILY	2400			
TEMP	1991-07-01	1995-09-13	DAILY	2400			
TEMP	1937-04-01	1942-02-28	DAILY	2400			
PRECIP	1991-07-01	1995-09-13	DAILY	2400	SRG		
PRECIP	1997-11-25	Present	HOURLY	2400	TB	RCRD	
PRECIP	1937-04-01	1942-02-28	DAILY	2400			
TEMP	1943-05-01	1991-07-01	DAILY	2400			
PRECIP	1997-11-25	Present	DAILY	2400	TB	RCRD	

* For explanation of codes and abbreviations see Station Metadata link below.

Other Station Information can be found at:

ASOS Implementation by NWS: <http://www.nws.noaa.gov/ops2/Surface/asosimplementation.htm>

Station Metadata website: <http://www.ncdc.noaa.gov/homr>

INQUIRES/COMMENTS CALL: (828) 271-4800, option 2

Fax Number : (828) 271-4876

TDD : (828) 271-4010

Email : ncdc.info@noaa.gov

NOAA/National Climatic Data Center

Attn: User Engagement & Services Branch

151 Patton Avenue

Asheville, NC 28801-5001

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