

2004

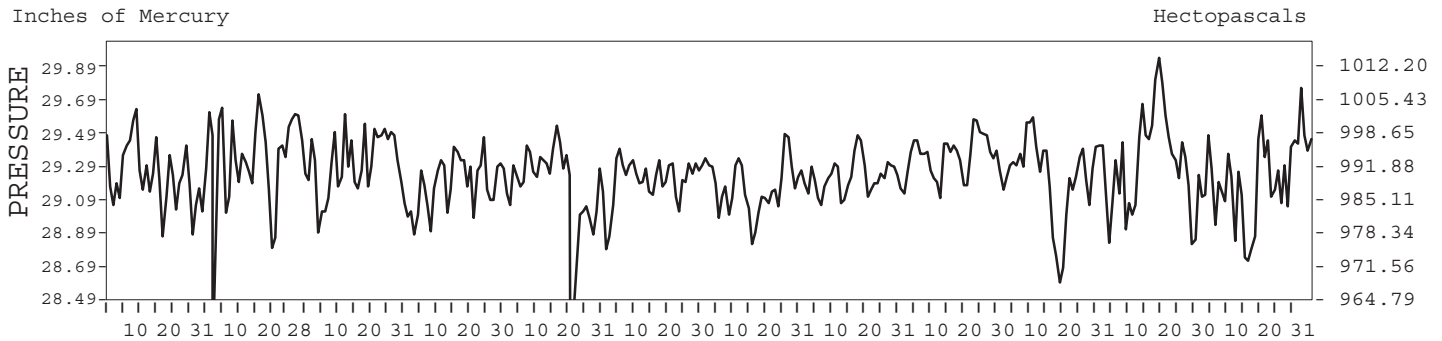
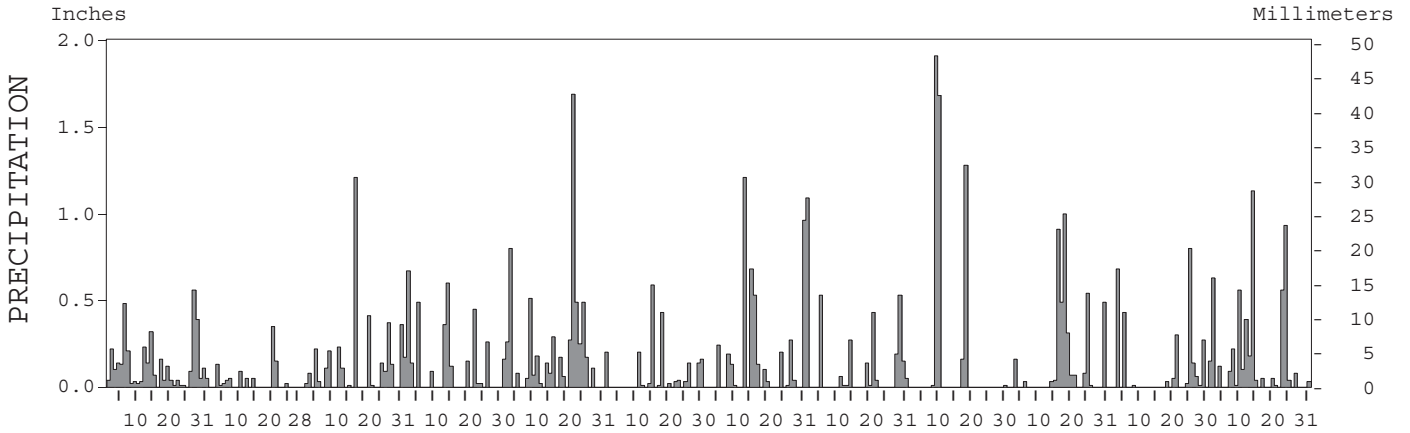
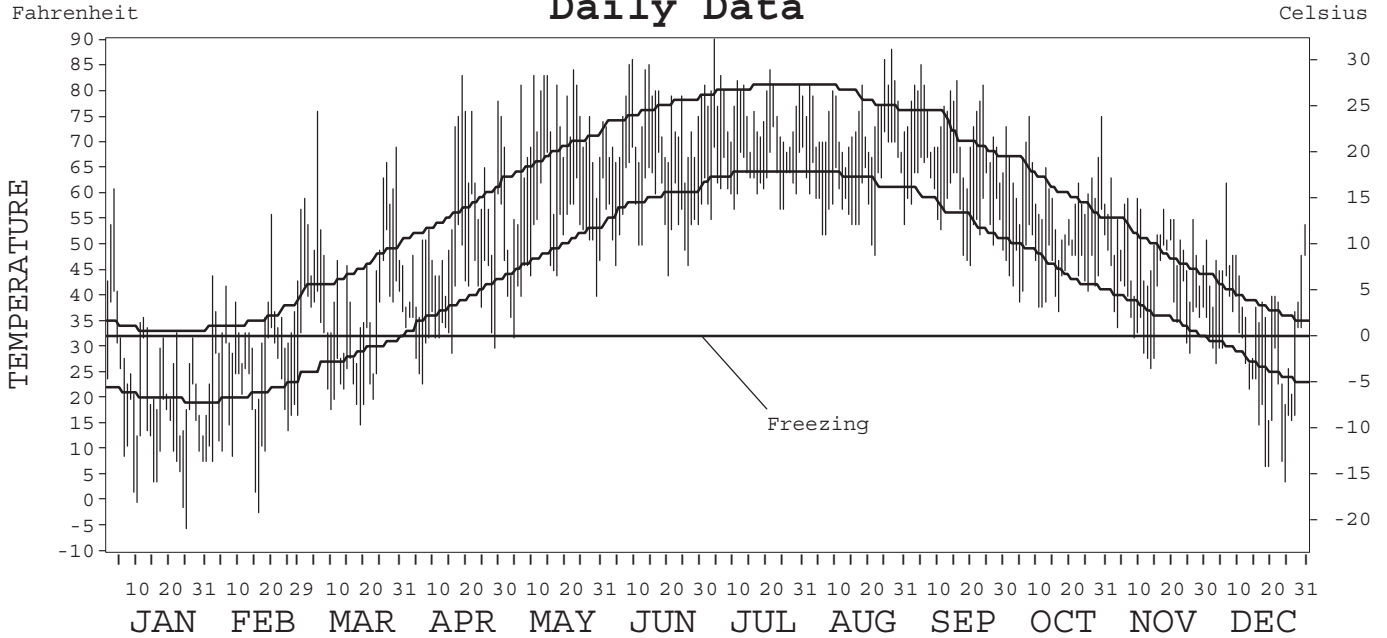
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-4497

ERIE,
PENNSYLVANIA (ERI)

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 2004

ERIE, PA (ERI)

LATITUDE: 42° 04' 48" N LONGITUDE: 80° 10' 57" W ELEVATION (FT): GRND: 753 BARO: 756 TIME ZONE: EASTERN (UTC + 5) WBAN: 14860

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	27.1	34.5	45.5	56.0	70.0	73.7	76.5	74.5	73.2	60.4	50.3	38.5	56.7	
	HIGHEST DAILY MAXIMUM	61	57	76	83	84	86	90	88	85	75	63	62	90	
	DATE OF OCCURRENCE	03	29	05	18	22	09	04	27	05	30+	02	07	JUL 04	
	MEAN DAILY MINIMUM	14.5	19.1	31.4	39.0	50.6	56.7	62.9	60.1	57.7	45.4	38.0	25.9	41.8	
	LOWEST DAILY MINIMUM	-5	-2	15	23	32	44	55	48	46	37	26	4	-5	
	DATE OF OCCURRENCE	25	16	18	06	04	20	03	22	20	17	14	25	JAN 25	
	AVERAGE DRY BULB	20.8	26.8	38.5	47.5	60.3	65.2	69.7	67.3	65.5	52.9	44.2	32.2	49.2	
	MEAN WET BULB		24.9	35.0	42.1	55.6	59.6	64.7			48.9	40.5	29.6		
	MEAN DEW POINT		19.5	30.0	35.7	51.7	55.1	61.4			44.8	35.2	24.4		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	0	0	1	0	0	0	0	0	0	1
MAXIMUM ≤ 32°	23	11	5	0	0	0	0	0	0	0	0	7	46		
MINIMUM ≤ 32°	29	27	15	9	1	0	0	0	0	0	7	22	110		
MINIMUM ≤ 0°	3	1	0	0	0	0	0	0	0	0	0	0	4		
H/C	HEATING DEGREE DAYS	1362	1105	816	529	186	71	2	34	59	368	620	1009	6161	
	COOLING DEGREE DAYS	0	0	0	11	51	84	157	112	80	1	0	0	496	
RH	MEAN (PERCENT)	74	73	74	67	75	71	76	75	74	75	72	73	73	
	HOUR 01 LST	74	80	75	72	83	78	81	81	82	79	73	76	78	
	HOUR 07 LST	77	77	78	75	81	76	81	83	81	82	73	76	78	
	HOUR 13 LST	72	66	68	61	68	63	69	66	63	66	68	71	67	
	HOUR 19 LST	74	72	75	64	68	64	70	70	75	76	74	71	71	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	4	0	2	3	3	2	0	0	0	0	3	3	20	
	THUNDERSTORMS	1	0	0	1	11	2	6	2	1	1	0	0	26	
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.)	29.24		29.31	29.19		29.23	29.16	29.23	29.35	29.22	29.33	29.22		
	MEAN SEA-LEVEL PRESS. (IN.)			30.12	29.99		30.01	29.94		30.14	30.01	30.14	30.03		
WINDS	RESULTANT SPEED (MPH)		4.0	3.7	2.0	2.2	3.3	1.0	2.7	1.6	3.7	2.6	6.1		
	RES. DIR. (TENS OF DEGS.)		23	22	24	21	22	23	22	13	20	23	22		
	MEAN SPEED (MPH)	12.0	9.4	10.7	10.5	8.3	8.5	7.8	7.6	8.4	8.8	10.3	12.0	9.5	
	PREVAIL. DIR. (TENS OF DEGS.)	29	25	17	21	18	20	19	19	17	20	19	21	19	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	31	32	35	35	32	25	24	23	35	29	31	36	36	
	DIR. (TENS OF DEGS.)	29	20	16	15	33	22	20	19	04	23	30	26	26	
	DATE OF OCCURRENCE	07	09	01	25	09	13+	04	25+	09	16	05+	07+	DEC 07+	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	43	40	47	41	40	32	32	31	47	43	44	51	51	
DIR. (TENS OF DEGS.)	28	25	22	20	32	26	28	22	04	22	29	25	25		
DATE OF OCCURRENCE	07	21+	05	29	09	01	05	18	09	16	05+	07	DEC 07		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	3.86	0.96	3.91	3.53	6.38	1.82	5.82	2.42	5.05	4.23	2.95	5.68	46.61	
	GREATEST 24-HOUR (IN.)	0.56	0.50	1.21	0.78	1.96	0.61	1.95	0.53	3.53	1.49	0.82	1.43	3.53	
	DATE OF OCCURRENCE	27	20-21	16	12-13	20-21	13-14	30-31	28+	08-09	16-17	24-25	22-23	SEP 08-09	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	29	11	18	13	21	13	16	13	6	14	13	20	187	
PRECIPITATION ≥ 0.10	14	3	12	10	15	6	12	7	4	7	7	11	108		
PRECIPITATION ≥ 1.00	0	0	1	0	1	0	2	0	3	1	0	1	9		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	59.9	5.6	22.4	5.2	0.0	0.0	0.0	0.0	0.0	0.0	2.0	30.1	125.2	
	GREATEST 24-HOUR (IN.)	10.4	1.5	16.1	4.9	0.0	0.0	0.0	0.0	0.0	0.0	1.1	12.4	16.1	
	DATE OF OCCURRENCE	06	21	16	04							25	13	MAR 16	
	MAXIMUM SNOW DEPTH (IN.)		17	15								2	12		
	DATE OF OCCURRENCE		01	17								26	14+		
	NUMBER OF DAYS WITH:														
SNOWFALL ≥ 1.0	17	2	4	1	0	0	0	0	0	0	1	9	34		

NORMALS, MEANS, AND EXTREMES

ERIE, PA (ERI)

LATITUDE: 42° 04' 48" N LONGITUDE: 80° 10' 57" W ELEVATION (FT): GRND: 753 BARO: 756 TIME ZONE: EASTERN (UTC + 5) WBAN: 14860

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	33.5	35.4	44.7	55.6	67.4	76.2	80.4	79.0	72.0	61.0	49.3	38.6	57.8
	MEAN DAILY MAXIMUM	51	32.9	34.5	43.0	54.6	65.7	75.1	79.2	77.9	71.5	60.6	48.7	37.7	56.8
	HIGHEST DAILY MAXIMUM	51	68	75	82	89	90	100	99	94	94	88	80	75	100
	YEAR OF OCCURRENCE		1995	2000	1998	1990	1996	1988	1990	2002	1959	1963	1961	1982	JUN 1988
	MEAN OF EXTREME MAXS.	51	55.3	56.5	70.3	77.9	83.2	88.7	89.8	88.7	85.7	78.6	69.3	58.7	75.2
	NORMAL DAILY MINIMUM	30	20.3	20.9	28.2	37.9	48.7	58.5	63.7	62.7	55.9	45.5	36.4	26.8	42.1
	MEAN DAILY MINIMUM	51	19.8	19.7	26.9	37.0	47.1	57.1	62.0	61.0	54.6	44.6	35.9	25.9	41.0
	LOWEST DAILY MINIMUM	51	-18	-17	-9	12	26	32	44	37	33	24	7	-6	-18
	YEAR OF OCCURRENCE		1994	1979	1980	1982	1970	1972	1963	1982	1974	1975	1976	1983	JAN 1994
	MEAN OF EXTREME MINS.	51	1.3	0.6	9.7	22.8	33.3	42.8	50.3	49.2	40.7	31.7	22.5	9.4	26.2
	NORMAL DRY BULB	30	26.9	28.2	36.5	46.8	58.1	67.4	72.1	70.9	64.0	53.3	42.9	32.7	50.0
	MEAN DRY BULB	51	26.4	27.1	34.9	45.9	56.5	66.1	70.7	69.6	63.0	52.6	42.4	31.8	48.9
	MEAN WET BULB	19	25.7	26.5	32.3	42.2	52.2	61.2	65.6	65.0	58.2	48.1	38.9	28.1	45.3
	MEAN DEW POINT	19	20.8	21.3	26.4	36.1	46.9	56.7	61.7	61.2	53.9	43.0	33.4	23.3	40.4
	NORMAL NO. DAYS WITH: MAXIMUM \geq 90°	30	0.0	0.0	0.0	0.0	0.1	0.5	1.1	0.7	0.1	0.0	0.0	0.0	2.5
MAXIMUM \leq 32°	30	15.5	13.1	6.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	1.2	9.0	45.6	
MINIMUM \leq 32°	30	27.4	24.4	22.6	10.4	0.6	*	0.0	0.0	0.0	1.4	11.0	23.5	121.3	
MINIMUM \leq 0°	30	1.7	1.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.6	
H/C	NORMAL HEATING DEG. DAYS	30	1196	1046	900	567	260	58	4	15	116	386	679	1016	6243
	NORMAL COOLING DEG. DAYS	30	0	0	1	5	30	115	208	183	71	7	0	0	620
RH	NORMAL (PERCENT)	30	75	75	71	68	70	72	72	74	74	71	72	75	72
	HOUR 01 LST	30	76	77	75	73	77	80	80	82	80	75	74	76	77
	HOUR 07 LST	30	78	78	77	75	76	79	80	82	82	78	76	77	78
	HOUR 13 LST	30	72	71	66	62	62	64	64	65	65	63	68	72	66
	HOUR 19 LST	30	75	76	70	65	63	65	65	70	74	73	73	75	70
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH: HEAVY FOG (VISBY \leq 1/4 MI)	49	1.6	1.9	2.8	1.9	1.9	0.9	0.3	0.5	0.3	0.4	1.1	1.2	14.8
	THUNDERSTORMS	49	0.1	0.4	1.5	2.8	4.1	5.9	6.4	6.2	4.1	2.2	1.5	0.3	35.5
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)	1						6.4							
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH: CLEAR	1			3.0		6.0	5.0							
	PARTLY CLOUDY	1	2.0	3.0	2.0		4.0	6.0							
1	6.0	6.0	10.0			8.0	8.0								
PR	MEAN STATION PRESSURE (IN)	32	29.20	29.30	29.20	29.20	29.20	29.20	29.20	29.30	29.29	29.30	29.29	29.29	29.25
	MEAN SEA-LEVEL PRES. (IN)	19	30.06	30.08	30.05	29.96	29.99	30.01	30.00	30.04	30.06	30.08	30.07	30.09	30.04
WINDS	MEAN SPEED (MPH)	46	12.6	11.7	11.9	11.1	9.9	9.4	8.9	8.7	9.8	10.8	12.7	12.9	10.9
	PREVAIL. DIR (TENS OF DEGS)	30	20	26	26	18	18	18	18	18	18	18	18	20	18
	MAXIMUM 2-MINUTE: SPEED (MPH)	9	39	39	40	37	36	36	43	36	35	36	40	40	43
	DIR. (TENS OF DEGS)		19	26	23	20	15	21	26	25	04	20	26	24	26
	YEAR OF OCCURRENCE		1998	2001	2002	2001	2003	1998	1999	2000	2004	2001	2003	2000	JUL 1999
	MAXIMUM 5-SECOND: SPEED (MPH)	9	52	61	55	63	47	45	61	46	47	52	63	53	63
	DIR. (TENS OF DEGS)		16	25	23	29	15	21	27	35	04	27	27	21	27
YEAR OF OCCURRENCE		1996	2001	2002	2002	2003	1998	1999	2000	2004	1996	2003	1999	NOV 2003	
PRECIPITATION	NORMAL (IN)	30	2.53	2.28	3.13	3.38	3.34	4.28	3.28	4.21	4.73	3.92	3.96	3.73	42.77
	MAXIMUM MONTHLY (IN)	51	5.35	5.73	6.78	7.11	6.38	8.35	7.70	11.06	10.65	9.87	10.40	6.94	11.06
	YEAR OF OCCURRENCE		1998	1990	1976	1961	2004	1996	1970	1977	1977	1954	1985	1990	AUG 1977
	MINIMUM MONTHLY (IN)	51	0.87	0.57	0.63	1.63	1.00	0.75	0.52	0.50	1.33	1.13	1.52	1.38	0.50
	YEAR OF OCCURRENCE		1981	1978	1960	1975	1991	1991	2001	2002	1995	1963	1978	1960	AUG 2002
	MAXIMUM IN 24 HOURS (IN)	49	1.63	2.16	2.38	2.53	2.23	4.66	3.22	3.91	6.11	4.35	3.67	2.39	6.11
	YEAR OF OCCURRENCE		1998	1961	1987	1977	1969	1996	1970	1994	1979	1954	1985	1979	SEP 1979
	NORMAL NO. DAYS WITH: PRECIPITATION \geq 0.01	30	19.4	14.9	14.9	13.9	12.5	11.0	9.9	10.7	11.6	13.0	16.1	19.2	167.1
PRECIPITATION \geq 1.00	30	0.2	0.2	0.4	0.3	0.5	1.3	0.8	1.3	1.3	0.6	0.3	0.4	7.6	
SNOWFALL	NORMAL (IN)	30	26.3	17.3	11.2	2.3	0.*	0.0	0.0	0.0	0.3	9.0	25.3	91.7	
	MAXIMUM MONTHLY (IN)	49	62.4	32.6	31.8	17.2	0.4	T	T	T	T	4.0	42.2	66.9	
	YEAR OF OCCURRENCE		1978	2003	1996	1957	1989	1990	1999	1992	1993	1954	2000	1989	DEC 1989
	MAXIMUM IN 24 HOURS (IN)	49	12.9	17.8	16.1	10.0	0.4	T	T	T	T	2.4	23.0	19.2	23.0
	YEAR OF OCCURRENCE		1986	1979	2004	1957	1989	1990	1999	1992	1993	2001	1956	1989	NOV 1956
	MAXIMUM SNOW DEPTH (IN)	47	28	25	20	9	0	0	0	0	0	2	27	39	39
	YEAR OF OCCURRENCE		1985	1977	1984	1987						1974	1950	1989	DEC 1989
NORMAL NO. DAYS WITH: SNOWFALL \geq 1.0	30	6.6	4.7	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.1	2.4	6.6	24.4	

PRECIPITATION (inches) 2004 ERIE, PA (ERI)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1975	2.99	3.30	3.58	1.63	2.36	4.36	3.22	8.93	2.52	2.42	3.17	4.55	43.03
1976	3.07	5.01	6.78	2.71	4.18	3.98	4.35	1.40	3.87	4.14	2.12	2.24	43.85
1977	1.05	1.44	3.45	5.21	2.53	4.39	6.67	11.06	10.65	3.37	6.25	5.63	61.70
1978	3.61	0.57	1.79	2.45	2.76	2.68	0.65	4.56	4.83	5.81	1.52	3.81	35.04
1979	3.50	2.15	2.50	4.71	3.70	3.58	4.27	5.09	8.44	6.63	5.84	4.90	55.31
1980	1.57	1.29	4.11	3.79	2.23	4.83	5.42	6.76	5.48	6.51	2.56	2.49	47.04
1981	0.87	5.21	1.58	6.09	2.13	4.84	3.04	3.85	4.26	5.04	2.22	2.84	41.97
1982	3.85	1.24	3.50	1.81	3.06	6.02	4.40	2.20	4.07	2.74	5.33	3.34	41.56
1983	1.49	1.07	3.63	2.93	3.91	3.84	5.52	4.74	5.27	3.77	6.11	3.97	46.25
1984	1.65	2.42	1.91	2.63	5.83	4.49	1.94	2.09	5.29	1.82	3.62	4.10	37.79
1985	2.56	2.75	5.08	1.76	2.94	3.50	4.97	1.66	2.22	5.20	10.40	2.83	45.87
1986	2.33	2.72	2.10	2.88	5.24	7.71	2.54	1.83	7.97	4.86	2.99	4.13	47.30
1987	2.15	1.05	4.28	1.87	1.78	5.15	3.91	7.82	5.45	5.76	2.25	3.39	44.86
1988	1.50	2.47	2.44	3.00	3.21	1.26	4.14	3.78	3.21	8.25	2.99	2.62	38.87
1989	1.95	2.41	4.70	2.02	6.14	5.14	1.35	3.96	3.76	3.33	3.87	3.25	41.88
1990	2.30	5.73	1.29	3.52	5.74	2.84	2.53	6.49	7.74	4.15	2.69	6.94	51.96
1991	2.16	1.62	3.38	3.64	1.00	0.75	3.49	3.07	3.25	3.00	3.18	3.17	31.71
1992	2.60	1.91	2.11	4.04	1.78	1.95	6.06	4.11	6.81	4.01	5.37	3.34	44.09
1993	3.36	2.03	3.59	2.34	1.28	3.94	2.80	2.85	4.52	4.41	4.10	2.88	38.10
1994	2.58	1.35	2.99	4.87	2.02	5.80	1.12	7.72	3.39	2.46	3.01	3.19	40.50
1995	3.37	1.66	1.29	3.08	2.69	1.45	2.20	3.54	1.33	4.51	4.99	3.25	33.36
1996	3.26	2.03	2.04	6.07	3.37	8.35	2.99	1.43	9.63	3.28	3.26	2.96	48.67
1997	1.66	3.00	4.80	2.25	4.36	4.30	2.90	3.07	3.16	2.43	3.23	4.85	40.01
1998	5.35	1.34	2.99	4.86	2.67	2.64	2.33	2.54	1.63	1.92	1.80	3.59	33.66
1999	4.98	1.88	1.86	4.09	3.20	3.00	2.42	2.77	5.15	2.94	4.48	3.84	40.61
2000	2.48	1.95	2.05	5.09	4.29	5.62	4.86	5.52	2.55	3.38	5.67	4.86	48.32
2001	1.69	2.36	2.96	2.54	3.75	2.96	0.52	4.29	2.38	4.10	2.36	4.46	34.37
2002	3.54	3.64	4.40	4.74	5.65	2.81	2.43	0.50	7.77	4.37	4.90	3.98	48.73
2003	2.97	2.92	2.95	1.96	5.12	2.52	4.89	1.55	6.77	3.72	2.66	2.97	41.00
2004	3.86	0.96	3.91	3.53	6.38	1.82	5.82	2.42	5.05	4.23	2.95	5.68	46.61
POR= 131 YRS	2.71	2.39	2.86	3.19	3.43	3.53	3.23	3.27	3.82	3.61	3.54	3.02	38.60

WBAN : 14860

AVERAGE TEMPERATURE (°F) 2004 ERIE, PA (ERI)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1975	29.9	28.4	32.1	38.8	60.3	67.4	71.8	69.4	58.5	52.7	46.6	30.7	48.9
1976	20.9	32.8	38.9	45.8	52.5	66.4	66.4	67.0	60.5	48.1	34.2	23.9	46.5
1977	12.5	25.0	40.6	47.8	58.4	61.9	70.3	67.1	62.5	49.4	43.7	28.3	47.3
1978	19.8	14.5	27.9	41.8	56.0	65.2	69.5	71.1	62.3	49.3	40.6	31.0	45.8
1979	19.5	14.1	36.5	42.2	53.9	63.5	67.6	69.5	64.3	53.6	43.7	34.5	46.9
1980	26.6	20.9	31.0	43.3	55.7	61.3	69.6	72.2	63.7	48.1	38.9	27.5	46.6
1981	19.6	30.3	33.1	47.4	53.9	66.0	72.1	70.6	61.9	49.7	41.6	31.4	48.1
1982	19.2	23.4	34.4	42.5	60.9	61.3	70.9	66.2	62.5	54.2	44.8	40.3	48.4
1983	30.6	31.6	38.5	45.3	55.0	67.0	73.0	72.4	65.7	54.4	45.2	25.9	50.4
1984	21.6	35.5	28.5	47.0	53.8	68.6	69.6	72.0	61.8	56.4	42.4	37.3	49.5
1985	21.7	25.9	37.4	51.4	59.8	63.4	70.2	70.7	66.9	54.6	46.3	27.2	49.6
1986	27.5	27.0	38.7	48.2	59.6	65.2	72.0	69.2	65.0	53.6	40.0	32.9	49.9
1987	28.0	27.3	37.5	48.3	60.5	69.2	74.6	70.0	64.5	48.2	45.1	35.8	50.8
1988	27.2	25.9	36.3	46.0	58.2	65.6	74.5	72.9	63.0	48.2	44.6	32.4	49.6
1989	33.4	24.8	35.6	43.1	56.1	66.4	71.9	69.4	63.2	54.8	41.2	21.7	48.5
1990	36.0	33.3	40.4	49.4	55.2	67.0	70.9	69.9	63.4	54.8	46.0	36.7	51.9
1991	28.1	32.7	39.0	51.5	64.8	70.3	73.2	72.6	63.8	55.8	41.3	34.6	52.3
1992	30.4	30.4	34.7	46.6	57.5	63.9	69.4	67.8	64.0	51.1	42.4	34.7	49.4
1993	32.5	24.1	31.7	48.1	57.8	68.4	75.4	73.4	61.2	51.1	41.7	30.5	49.7
1994	18.4	24.2	33.2	49.1	54.2	68.5	73.3	69.1	63.4	53.7	48.1	36.8	49.3
1995	31.4	24.4	37.8	43.0	57.5	70.1	73.7	74.7	62.1	55.8	38.1	27.6	49.7
1996	24.5	25.9	30.0	44.3	55.8	68.2	69.2	70.6	63.2	53.5	36.8	34.6	48.1
1997	25.9	31.9	36.7	43.6	50.8	66.9	69.4	67.5	62.2	53.3	39.8	33.9	48.5
1998	34.5	35.7	39.8	47.9	63.5	67.6	71.5	72.1	66.9	54.5	45.2	38.2	53.1
1999	26.5	34.0	33.2	47.6	60.2	69.5	75.7	68.9	64.7	52.5	46.5	35.0	51.2
2000	27.6	32.9	41.9	46.0	59.8	67.5	67.8	68.4	63.3	54.0	40.4	24.0	49.5
2001	27.6	30.6	32.4	49.0	59.6	67.0	70.6	71.9	61.3	54.3	49.2	37.5	50.9
2002	34.1	33.8	36.4	48.8	53.6	68.5	73.7	72.1	67.8	51.3	41.0	30.3	51.0
2003	20.7	21.7	36.2	44.6	55.0	64.8	70.0	71.4	63.2	51.1	46.3	34.4	48.3
2004	20.8	26.8	38.5	47.5	60.3	65.2	69.7	67.3	65.5	52.9	44.2	32.2	49.2
POR= 131 YRS	27.2	27.0	34.6	45.5	56.7	66.4	71.3	69.9	63.9	53.1	42.0	31.8	49.1

HEATING DEGREE DAYS (base 65°F) 2004 ERIE, PA (ERI)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1975-76	3	14	197	381	546	1057	1361	931	804	580	386	51	6311
1976-77	28	42	163	519	920	1269	1620	1116	751	519	249	126	7322
1977-78	9	51	110	477	636	1131	1395	1408	1143	688	303	84	7435
1978-79	15	2	125	481	723	1046	1406	1424	874	678	369	106	7249
1979-80	36	17	84	378	634	939	1188	1275	1045	644	299	161	6700
1980-81	12	2	108	520	775	1156	1400	967	982	523	345	42	6832
1981-82	3	6	153	467	694	1034	1413	1159	942	672	158	123	6824
1982-83	11	47	126	336	605	762	1062	933	814	585	312	67	5660
1983-84	10	0	89	336	591	1207	1338	847	1123	539	360	25	6465
1984-85	11	5	141	262	673	853	1337	1088	846	423	202	87	5928
1985-86	5	3	75	316	558	1164	1152	1056	811	502	207	74	5923
1986-87	5	32	84	350	742	989	1138	1048	844	495	225	31	5983
1987-88	0	21	67	513	592	902	1166	1128	883	565	236	96	6169
1988-89	5	10	102	528	605	1006	972	1121	905	651	301	45	6251
1989-90	2	16	128	320	706	1335	892	879	773	500	309	58	5918
1990-91	9	0	113	323	564	866	1137	898	800	412	148	15	5285
1991-92	0	0	130	304	704	934	1065	996	934	556	258	94	5975
1992-93	5	23	110	423	673	928	1002	1137	1025	507	227	51	6111
1993-94	0	0	162	430	692	1061	1438	1137	979	480	346	61	6786
1994-95	0	12	90	344	503	868	1034	1130	835	654	237	28	5735
1995-96	14	0	127	285	803	1153	1245	1126	1079	614	321	19	6786
1996-97	10	0	109	353	840	934	1206	920	870	638	430	57	6367
1997-98	16	20	111	389	750	957	940	813	794	506	107	82	5485
1998-99	0	4	47	323	585	824	1186	860	980	516	187	52	5564
1999-00	0	5	89	380	549	925	1153	926	710	565	206	64	5572
2000-01	23	19	137	342	729	1261	1152	956	1004	486	185	68	6362
2001-02	12	1	155	337	469	844	953	866	879	506	368	53	5443
2002-03	2	4	45	444	713	1070	1365	1206	888	612	306	69	6724
2003-04	4	5	87	425	554	943	1362	1105	816	529	186	71	6087
2004-	2	34	59	368	620	1009							

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COOLING DEGREE DAYS (base 65°F) 2004 ERIE, PA (ERI)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1975	0	0	0	0	64	132	221	156	9	6	0	0	588
1976	0	0	0	10	5	98	81	110	33	2	0	0	339
1977	0	0	2	9	52	42	179	121	44	0	1	0	450
1978	0	0	0	0	32	94	162	198	48	0	0	0	534
1979	0	0	0	3	29	69	125	163	71	32	0	0	492
1980	0	0	0	0	20	56	162	234	75	4	0	0	551
1981	0	0	0	2	8	81	230	187	65	0	0	0	573
1982	0	0	0	4	35	19	201	90	59	8	5	4	425
1983	0	0	0	0	7	135	261	235	117	15	0	0	770
1984	0	0	0	7	18	145	161	227	52	3	0	0	613
1985	0	0	0	21	45	45	172	187	140	4	3	0	617
1986	0	0	2	6	46	86	228	169	88	3	0	0	628
1987	0	0	0	0	92	164	304	182	61	0	2	0	805
1988	0	0	0	0	29	119	305	263	52	10	0	0	778
1989	0	0	0	0	35	94	225	159	80	7	0	0	600
1990	0	0	16	40	13	123	198	159	73	13	2	0	637
1991	0	0	0	14	148	181	259	244	102	25	0	0	973
1992	0	0	0	9	30	70	148	117	85	0	0	0	459
1993	0	0	0	4	13	161	331	269	55	7	0	0	840
1994	0	0	0	9	18	170	266	147	48	3	0	0	661
1995	0	0	0	0	8	189	287	308	45	6	0	0	843
1996	0	0	0	0	43	122	148	181	61	3	0	0	558
1997	0	0	0	0	0	119	157	107	30	33	0	0	446
1998	0	0	23	0	70	167	208	232	108	5	0	0	813
1999	0	0	0	0	42	195	341	132	87	2	0	0	799
2000	0	0	1	0	56	147	118	128	91	6	0	0	547
2001	0	0	0	13	24	135	194	224	52	11	0	0	653
2002	0	0	0	27	18	163	277	230	135	26	0	0	876
2003	0	0	0	9	3	66	168	211	38	3	0	0	498
2004	0	0	0	11	51	84	157	112	80	1	0	0	496

SNOWFALL (inches) 2004 ERIE, PA (ERI)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1975-76	0.0	0.0	0.0	0.0	2.1	24.7	24.8	6.8	7.5	0.1	T	0.0	66.0
1976-77	0.0	0.0	0.0	3.1	33.9	27.6	29.0	13.0	4.5	0.4	0.0	0.0	111.5
1977-78	0.0	0.0	0.0	0.0	13.1	51.0	62.4	12.6	3.6	0.1	0.0	0.0	142.8
1978-79	0.0	0.0	0.0	0.0	1.8	10.6	33.4	27.8	2.2	0.7	0.0	0.0	76.5
1979-80	0.0	0.0	0.0	0.1	22.2	4.8	9.2	12.2	6.7	T	0.0	0.0	55.2
1980-81	0.0	0.0	0.0	T	4.9	21.0	27.9	22.5	13.1	T	0.0	0.0	89.4
1981-82	0.0	0.0	0.0	T	0.4	17.3	27.1	9.0	7.3	10.2	0.0	0.0	71.3
1982-83	0.0	0.0	0.0	T	9.2	8.9	6.7	9.2	5.6	1.6	0.0	0.0	41.2
1983-84	0.0	0.0	0.0	0.0	1.4	41.1	18.7	27.2	21.6	T	0.0	0.0	110.0
1984-85	0.0	0.0	0.0	0.0	4.7	16.7	57.2	19.0	3.5	5.2	0.0	0.0	106.3
1985-86	0.0	0.0	0.0	0.0	1.9	59.9	30.6	22.9	4.2	5.4	0.0	0.0	124.9
1986-87	0.0	0.0	0.0	0.0	4.6	8.0	31.3	10.1	11.6	2.6	0.0	0.0	68.2
1987-88	0.0	0.0	0.0	T	T	24.3	30.8	31.2	16.8	0.4	0.0	0.0	103.5
1988-89	0.0	0.0	0.0	1.8	0.5	28.1	10.2	21.5	10.5	3.5	0.4	0.0	76.5
1989-90	0.0	0.0	0.0	T	19.6	66.9	13.7	8.3	2.3	4.1	0.0	T	114.9
1990-91	0.0	T	T	T	2.0	15.4	24.3	15.4	2.1	0.4	0.0	0.0	59.6
1991-92	0.0	0.0	0.0	T	13.7	30.0	32.6	8.0	12.8	7.7	0.0	0.0	104.8
1992-93	0.0	T	0.0	T	23.0	15.6	10.0	31.7	27.3	0.9	0.0	0.0	108.5
1993-94	0.0	0.0	T	0.3	3.5	25.7	46.9	27.8	22.2	4.9	0.0	0.0	131.3
1994-95	0.0	0.0	0.0	0.0	1.1	1.0	27.0	15.3	5.2	4.1	0.0	0.0	53.7
1995-96	0.0	0.0	0.0	0.0	20.4	39.6	23.3	11.8	31.8				
1996-97													
1997-98							9.8	0.7	16.6	0.0	0.0	0.0	
1998-99	0.0	0.0	0.0	0.0	0.4	28.3	57.9	9.7	14.8	T	0.0	0.0	111.1
1999-00	T	0.0	0.0	T	0.6	29.7	24.3	10.7	6.5	0.7	0.0	0.0	72.5
2000-01	0.0	0.0	0.0	T	42.2	49.7	16.3	8.5	28.9	3.5	0.0	0.0	149.1
2001-02	0.0	0.0	0.0	2.4	T	37.1	16.1	17.4	31.1	0.9	0.0	0.0	105.0
2002-03	0.0	0.0	0.0	T	21.1	26.9	51.8	32.6	8.1	2.5	0.0	0.0	143.0
2003-04	0.0	0.0	0.0	0.2	1.0	17.7	59.9	5.6	22.4	5.2	0.0	0.0	112.0
2004-	0.0	0.0	0.0	0.0	2.0	30.1							
POR= 48 YRS	0.0	T	T	0.3	10.2	24.0	24.5	15.4	11.8	2.6	0.0	T	88.8

WBAN : 14860

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.</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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2004
ERIE,
PENNSYLVANIA (ERI)

Erie is located on the southeast shore of Lake Erie and observations are made at Erie International Airport, which is 6 miles southwest of the center of the city and about 1 mile from the lake shore. The terrain rises gradually in a series of ridges paralleling the shoreline to 500 feet above the lake level 3 to 4 miles inland and to 1,000 feet about 15 miles inland. Snowfall from instability showers moving southward off the lake usually increases due to the upslope terrain. Snowfall is somewhat higher south of the city than along the lake shore.

During the winter months, the many cold air masses moving south from Canada are modified by the relatively warm waters of Lake Erie. However, the temperature difference between air and water produces an excess of cloudiness and frequent snow from November through March.

Spring weather is quite variable in Erie, but generally cloudy and cool. Proximity to the lake frequently prevents killing frosts that occur

inland. This has led to the establishment of numerous vineyards and orchards in a narrow belt along the shore. Summer heat waves are tempered by cool lake breezes that may reach several miles inland, and days with temperatures above 90 degrees are infrequent. Summer thunderstorms are usually less destructive in Erie than inland areas because of the stabilizing effects of Lake Erie.

Autumn, with long dry periods and an abundance of sunshine, is usually the most pleasant period of the year in Erie. The growing season is extended by the influence of the warmer waters of the lake. Precipitation is well distributed throughout the year, although the number of days with measurable amounts varies considerably from a low average of about one day in three for the period June through September to about one-half of the days from November through March, when snow flurries and squalls move in from the lake.

STATION LOCATION

ERIE, PENNSYLVANIA

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE										AUTOMATIC OBSERVING EQUIPMENT *	* TYPE	REMARKS
						SEA LEVEL		GROUND										
						GROUND	TEMPERATURE	WIND INSTRUMENT	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET	RAIN GAUGE	WINDHOLE GAUGE	8 INCH RAIN GAUGE			
*NOTE:																		
<u>AIRPORT</u>																		
Port Erie Airport South end Terminal Bldg	1 0/16/29	1/31/60	NA	42°05'	80°11'	732	62 c30	5	5						d4	3		CAA to 10/20/55. c. Effective 9/1/53. d. Installed 9/1/53.
New Terminal Building Port Erie Airport + 4411 West 12th Street 5 mi. SW of Erie P.O.	2/1/60	12/16/83	800 ft. ENE	42°05'	80°11'	732 g731	55 e20	25 j k10	25 35					4 h32	4 h32	f4		e. Effective 9/28/65. f. Commissioned 100' S of thermometer site 12/10/65. g. Effective 12/10/65. h. Moved to roof 10/30/73. i. Minor move 11/19/73. j. Removed 6/1981. k. Effective 6/1981.
+ Erie International AP (Effective 1/1/68)																		
NWS Office Erie International AP	12/16/83	10/01/95	400 ft. NW	42°05'	80°11'	731	m20	5	5					3	3	m10 n6		m. Not moved 12/16/83. n. Minor move & type change 11/2/84.
Terminal Building	10/01/95	Present	NA	42°05'	80°11'	o753											S	ASOS Commissioned 10/01/95 o. Ground Elevation

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* NOTES: For earlier station history see previous editions.