

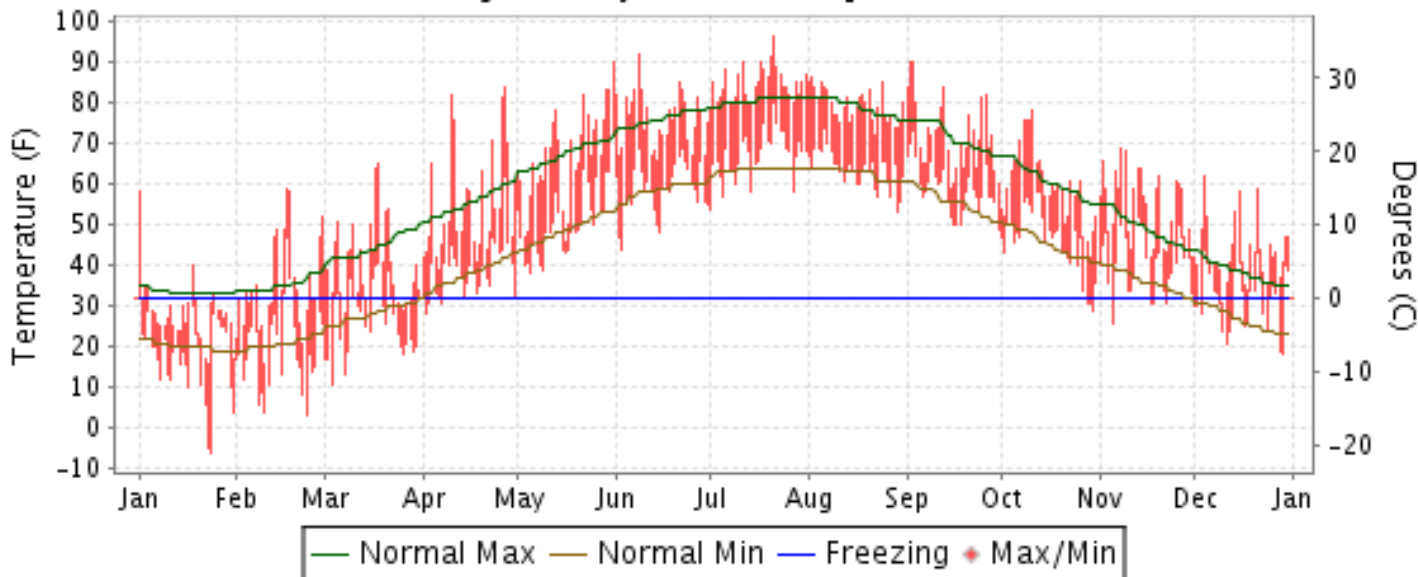


# 2011 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

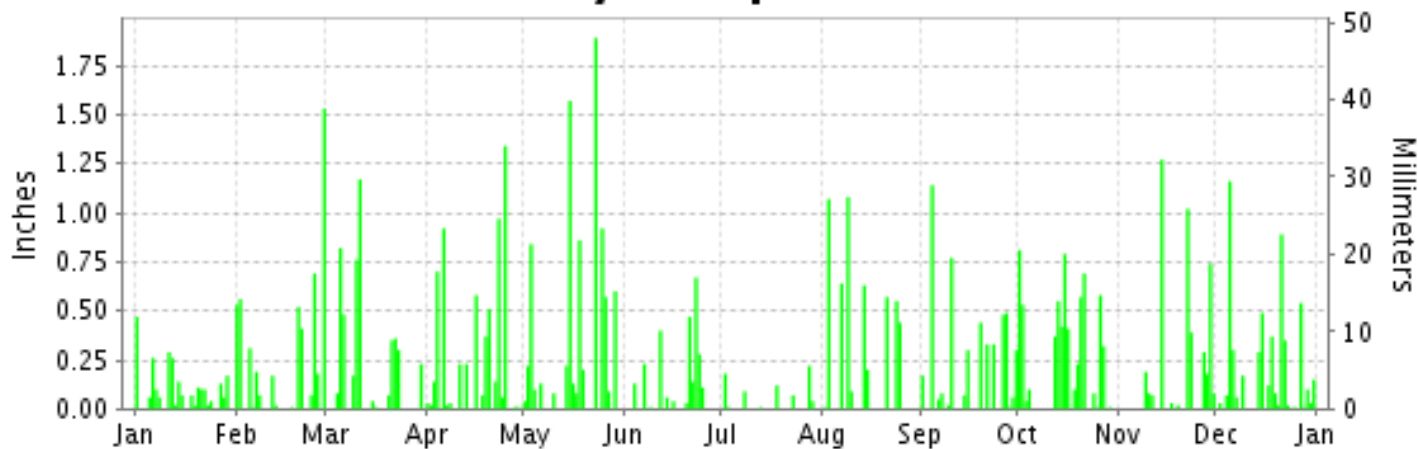
ISSN 0198-4497

## ERIE, PENNSYLVANIA (KERI)

### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure



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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA

*Thomas R. Karl*  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2011

## ERIE (KERI)

LATITUDE: 42° 4'N      LONGITUDE: -80° 10'W      ELEVATION (FT): GRND: 730 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	28.4	35.0	40.6	55.3	67.1	75.9	84.5	79.3	72.2	59.8	54.6	43.4	58.0	
	HIGHEST DAILY MAXIMUM	58	59	65	84	90	92	96	86	90	78	69	62	96	
	DATE OF OCCURRENCE	01	17	18	27	31	08	21	02	03+	11	08	04	JUL 21	
	MEAN DAILY MINIMUM	17.5	19.4	26.5	38.7	50.6	59.0	67.1	63.7	59.0	46.0	41.0	31.8	43.4	
	LOWEST DAILY MINIMUM	-6	3	11	28	38	44	54	53	49	29	26	18	-6	
	DATE OF OCCURRENCE	24	23	03	02	05	03	01	29	30	30	05	29	JAN 24	
	AVERAGE DRY BULB	23.0	27.2	33.6	47.0	58.9	67.5	75.8	71.5	65.6	52.9	47.8	37.6	50.7	
	MEAN WET BULB	21.5	24.8	30.9	43.0	54.0	61.5	67.9	65.3	60.7	48.3	42.7	34.2	46.2	
	MEAN DEW POINT	16.6	19.0	25.8	38.5	50.5	57.1	63.3	61.2	57.3	44.2	35.8	29.0	41.5	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	1	1	4	0	2	0	0	0	8	
	MAXIMUM <= 32°	26	14	7	0	0	0	0	0	0	0	0	1	48	
MINIMUM <= 32°	31	25	25	7	0	0	0	0	0	3	4	15	110		
MINIMUM <= 0°	2	0	0	0	0	0	0	0	0	0	0	0	2		
H/C	HEATING DEGREE DAYS	1295	1051	966	542	235	37	0	1	72	371	509	841	5920	
	COOLING DEGREE DAYS	0	0	0	8	51	116	343	210	97	5	0	0	830	
RH	MEAN (PERCENT)	75	72	74	74	76	71	67	70	76	75	65	73	72	
	HOUR 01 LST	77	73	76	78	83	79	77	76	83	78	67	74	77	
	HOUR 07 LST	77	76	79	78	75	74	70	74	80	79	68	75	75	
	HOUR 13 LST	71	68	68	69	68	62	56	61	65	67	59	69	65	
	HOUR 19 LST	76	72	77	73	76	69	64	71	81	77	66	75	73	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	5	6	3	3	6	0	1	1	0	0	0	2	27	
	THUNDERSTORMS	0	1	0	3	1	4	4	5	4	1	1	0	24	
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.)	29.19	29.21	29.31	29.08	29.15	29.15	29.17	29.10	29.20	29.18	29.23	29.31	29.19	
	MEAN SEA-LEVEL PRESS. (IN.)	30.02	30.03	30.12	29.88	29.95	29.93	29.94	29.88	29.98	29.98	30.03	30.13	29.99	
WINDS	RESULTANT SPEED (MPH)	4.1	4.0	1.8	3.4	0.9	3.0	2.8	2.0	1.6	2.7	5.9	5.8	2.8	
	RES. DIR. (TENS OF DEGS.)	24	23	21	20	11	24	25	26	16	20	20	22	22	
	MEAN SPEED (MPH)	9.0	11.2	9.9	11.2	8.5	7.8	6.5	7.5	7.7	8.9	11.9	10.3	9.2	
	PREVAIL.DIR.(TENS OF DEGS.)	26	20	25	26	05	19	19	19	18	16	19	18	19	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	33	32	38	41	31	29	26	31	26	32	31	31	41	
	DIR. (TENS OF DEGS.)	20	26	16	14	33	25	26	18	22	23	18	24	14	
	DATE OF OCCURRENCE	15	18	09	16	25	01	11	24	30	15	19	15	APR 16	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	41	51	55	61	41	43	41	41	41	49	41	46	61	
DIR. (TENS OF DEGS.)	19	26	15	17	31	22	27	17	24	25	27	25	17		
DATE OF OCCURRENCE	15	18	09	16	25	17	11	24	04	15	09	16	APR 16		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	2.55	5.27	4.84	6.38	8.54	2.57	0.74	5.28	5.04	6.61	4.36	5.26	57.44	
	GREATEST 24-HOUR (IN.)	0.50	1.53	1.65	1.36	1.89	0.80	0.22	1.10	1.14	1.14	1.41	1.36	1.89	
	DATE OF OCCURRENCE	11-12	28	10-11	24-25	23	23-24	28	09-10	04	20-21	22-23	05-06	MAY 23	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	20	15	13	19	17	12	8	10	16	18	12	21	181	
PRECIPITATION 0.10	11	10	9	11	13	8	3	8	10	14	7	12	116		
PRECIPITATION 1.00	0	1	1	1	2	0	0	2	1	0	2	1	11		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	35.9	35.7	17.6	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	9.2	101.2	
	GREATEST 24-HOUR (IN.)	5.7	6.8	9.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.5	5.9	9.8	
	DATE OF OCCURRENCE	12	25	11	06							11	18	MAR 11	
	MAXIMUM SNOW DEPTH (IN.)	9	13	6	1	0	0	0	0	0	0	0	3	13	
	DATE OF OCCURRENCE	31+	13+	12	07								19	FEB 13+	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	15	10	4	1	0	0	0	0	0	0	0	3	33		

# NORMALS, MEANS, AND EXTREMES ERIE (KERI)

**LATITUDE:** 42° 4'N      **LONGITUDE:** -80° 10'W      **ELEVATION (FT):** GRND: 730 BARO: 756      **TIME ZONE:** EASTERN (UTC -5)      **WBAN: 14860**

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>TEMPERATURE °F</b>	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	86	33.3	33.3	42.5	54.1	65.7	74.4	79.6	78.3	71.2	60.9	48.4	37.6	56.6
	HIGHEST DAILY MAXIMUM	58	70	75	82	89	90	100	99	94	94	88	80	75	100
	YEAR OF OCCURRENCE		2005	2000	1998	1990	2011	1988	1990	2002	1959	1963	1961	1982	JUN 1988
	MEAN OF EXTREME MAXS.	86	55.6	56.2	70.1	78.1	83.3	89.0	89.9	88.9	85.9	78.5	68.9	58.8	75.3
	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	86	20.6	19.5	27.3	37.0	47.7	57.1	62.9	61.9	55.0	45.4	35.7	26.1	41.4
	LOWEST DAILY MINIMUM	58	-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.	86	1.6	1.0	9.5	23.4	33.5	43.1	50.7	49.5	41.5	31.9	22.8	9.7	26.5
	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	86	27.0	26.4	34.9	45.5	56.7	65.8	71.3	70.1	63.1	53.2	42.1	31.9	49.0
	MEAN WET BULB	28	24.3	25.0	30.9	40.7	50.8	60.5	64.8	64.0	57.9	47.1	38.1	28.8	44.4
	MEAN DEW POINT	28	21.6	21.4	27.4	37.3	48.0	58.0	62.6	62.0	55.5	44.3	34.8	26.0	41.6
	NORMAL NO. DAYS WITH: MAXIMUM >= 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 <= 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 <= 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 <= 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	
<b>H/C</b>	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
<b>RH</b>	NORMAL (PERCENT)	30	75	75	71	68	70	72	72	74	74	71	72	75	72
	HOURLY 01 LST	30	76	77	75	73	77	80	80	82	81	75	74	76	77
	HOURLY 07 LST	30	78	78	77	75	76	79	80	82	82	78	76	77	78
	HOURLY 13 LST	30	72	71	66	62	62	64	64	65	65	63	68	72	66
	HOURLY 19 LST	30	75	76	71	65	63	65	65	70	74	73	73	75	70
<b>S</b>	PERCENT POSSIBLE SUNSHINE														
<b>W/O</b>	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	48	1.8	2.1	2.6	1.7	1.7	0.9	0.4	0.6	0.3	0.4	1.2	1.6	15.3
	THUNDERSTORMS	57	0.2	0.3	1.3	2.7	3.9	5.8	6.2	5.7	4.0	1.9	1.2	0.3	33.5
<b>CLOUDINESS</b>	MEAN: SUNRISE-SUNSET (OKTAS)														
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH: CLEAR														
	PARTLY CLOUDY CLOUDY														
<b>PR</b>	MEAN STATION PRESSURE(IN)	28	29.24	29.25	29.24	29.18	29.19	29.18	29.20	29.24	29.26	29.26	29.26	29.26	29.23
	MEAN SEA-LEVEL PRES. (IN)	28	30.06	30.07	30.05	29.98	29.98	29.97	29.98	30.02	30.05	30.06	30.06	30.07	30.03
<b>WINDS</b>	MEAN SPEED (MPH)	28	12.0	11.1	10.8	10.2	9.4	8.7	8.3	8.2	9.1	10.2	11.8	12.0	10.2
	PREVAIL.DIR(TENS OF DEGS)	37	21	26	27	05	19	19	19	19	19	19	19	21	19
	MAXIMUM 2-MINUTE: SPEED (MPH)	16	39	43	41	41	40	36	43	36	39	36	40	41	43
	DIR. (TENS OF DEGS)		26	25	24	14	35	21	26	25	23	28	26	16	25
	YEAR OF OCCURRENCE		2008	2009	2006	2011	2010	1998	1999	2000	2008	2006	2003	2009	FEB 2009
	MAXIMUM 3-SECOND SPEED (MPH)	16	54	61	66	63	55	47	61	51	58	54	63	62	66
	DIR. (TENS OF DEGS)		25	24	25	29	36	21	27	26	25	26	27	15	25
YEAR OF OCCURRENCE		2008	2009	2006	2002	2010	2010	1999	2009	2009	2005	2009	2003	2009	MAR 2006
<b>PRECIPITATION</b>	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)	58	6.23	5.73	6.78	7.11	8.54	8.35	7.70	11.06	10.65	9.87	10.40	7.36	11.06
	YEAR OF OCCURRENCE		2007	1990	1976	1961	2011	1996	1970	1977	1977	1954	1985	2008	AUG 1977
	MINIMUM MONTHLY (IN)	58	0.87	0.57	0.63	1.63	1.00	0.75	0.52	0.50	1.33	1.13	1.35	1.38	0.50
	YEAR OF OCCURRENCE		1981	1978	1960	1975	1991	1991	2001	2002	1995	1963	2009	1960	AUG 2002
	MAXIMUM IN 24 HOURS (IN)	58	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 >= 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 >= 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	
<b>SNOWFALL</b>	NORMAL (IN)	30	26.3	17.3	11.2	2.3	0.*	0.0	0.0	0.0	0.0	0.3	9.0	25.3	91.7
	MAXIMUM MONTHLY (IN)	56	62.4	35.7	33.9	17.2	0.4	T	T	T	T	4.0	42.2	66.9	66.9
	YEAR OF OCCURRENCE		1978	2011	2008	1957	1989	1990	1999	1992	1993	1954	2000	1989	DEC 1989
	MAXIMUM IN 24 HOURS (IN)	56	12.9	17.8	16.1	11.8	0.4	T	T	T	T	2.4	23.0	19.2	23.0
	YEAR OF OCCURRENCE		1986	1979	2004	2005	1989	1990	1999	1992	1993	2001	1956	1989	NOV 1956
	MAXIMUM SNOW DEPTH (IN)	54	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 >= 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) 2011 ERIE (KERI)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
2005	5.35	2.01	1.71	4.79	1.27	1.73	3.89	4.06	4.42	3.00	4.98	2.96	40.17
2006	2.45	2.52	2.03	3.13	3.50	2.99	3.44	3.30	7.53	6.58	3.16	3.68	44.31
2007	6.23	1.86	2.62	2.52	1.87	1.66	4.24	6.20	2.03	2.69	5.33	4.93	42.18
2008	2.88	5.07	4.96	2.25	2.65	4.33	4.72	2.58	2.94	4.81	4.88	7.36	49.43
2009	3.97	2.15	4.01	3.08	2.32	5.59	5.44	2.07	3.35	3.93	1.35	3.28	40.54
2010	2.77	2.32	1.29	2.59	3.91	3.66	5.18	1.90	4.29	5.85	3.75	2.24	39.75
2011	2.55	5.27	4.84	6.38	8.54	2.57	0.74	5.28	5.04	6.61	4.36	5.26	57.44
POR= 86 YRS	2.65	2.29	2.94	3.47	3.42	3.53	3.45	3.36	4.06	3.62	3.76	3.28	39.83

WBAN : 14860

**AVERAGE TEMPERATURE (°F) 2011 ERIE (KERI)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
2005	26.3	28.7	30.5	46.5	52.4	72.5	73.9	73.3	66.7	54.5	45.5	28.7	50.0
2006	37.5	30.4	35.8	48.2	57.9	65.5	73.5	71.1	61.7	49.8	45.2	38.2	51.2
2007	31.8	18.9	37.7	43.9	59.4	68.4	70.1	71.5	66.9	61.1	41.7	32.8	50.4
2008	31.8	27.2	32.6	51.2	54.7	70.4	73.4	70.1	66.5	52.4	42.2	32.5	50.4
2009	21.5	30.4	36.6	48.1	57.7	64.4	67.2	70.7	63.8	50.4	46.3	30.9	49.0
2010	25.3	25.2	37.9	51.9	60.3	68.8	74.3	73.5	64.4	53.2	43.0	27.8	50.5
2011	23.0	27.2	33.6	47.0	58.9	67.5	75.8	71.5	65.6	52.9	47.8	37.6	50.7
POR= 86 YRS	27.0	26.4	34.9	45.5	56.7	65.8	71.3	70.1	63.1	53.2	42.1	31.9	49.0

**HEATING DEGREE DAYS (base 65°F) 2011 ERIE (KERI)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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
2004-05	2	34	59	368	620	1009	1192	1010	1064	546	387	19	6310
2005-06	0	1	31	349	578	1121	847	961	897	497	261	54	5597
2006-07	1	3	119	466	587	825	1023	1287	843	627	231	42	6054
2007-08	10	11	56	190	690	991	1019	1088	997	417	323	22	5814
2008-09	1	4	37	388	677	1002	1341	961	874	513	239	69	6106
2009-10	17	12	83	444	556	1048	1223	1108	832	399	205	27	5954
2010-11	8	2	95	361	654	1145	1295	1051	966	542	235	37	6391
2011-	0	1	72	371	509	841							

WBAN : 14860

**COOLING DEGREE DAYS (base 65°F) 2011 ERIE (KERI)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
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
2005	0	0	0	0	1	253	284	262	89	30	0	0	919
2006	0	0	0	0	47	79	271	200	25	0	0	0	622
2007	0	0	4	0	64	155	174	218	118	75	0	0	808
2008	0	0	0	10	10	188	265	172	87	3	0	0	735
2009	0	0	0	15	18	56	92	196	52	0	0	0	429
2010	0	0	0	15	67	144	302	273	82	3	0	0	886
2011	0	0	0	8	51	116	343	210	97	5	0	0	830

**SNOWFALL (inches) 2011 ERIE (KERI)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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				
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
2004-05	0.0	0.0	0.0	0.0	2.0	30.1	38.8	16.8	20.1	14.8	T	0.0	122.6
2005-06	0.0	0.0	0.0	0.0	11.3	32.4	9.0	20.1	4.4	5.7	0.0	0.0	82.9
2006-07	0.0	0.0	0.0	0.2	6.4	12.5	37.7	35.4	12.5	3.8	0.0	0.0	108.5
2007-08	0.0	0.0	0.0	0.0	4.0	19.3	32.9	28.6	33.9	T	0.0	0.0	118.7
2008-09	0.0	0.0	0.0	0.4	21.1	48.8	59.2	12.0	0.7	3.6	0.0	0.0	145.8
2009-10	0.0	0.0	0.0	T	T	28.7	31.9	30.6	0.2	T	0.0	0.0	91.4
2010-11	0.0	0.0	0.0	0.0	1.4	17.6	35.9	35.7	17.6	2.0	0.0	0.0	110.2
2011-	0.0	0.0	0.0	0.0	0.8	9.2							
POR= 85 YRS	T	T	T	0.4	9.0	19.9	20.9	14.5	11.8	2.7	T	T	79.2

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. 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 EIGHTHS(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: <a href="https://mi3.ncdc.noaa.gov/mi3qry/login.cfm">https://mi3.ncdc.noaa.gov/mi3qry/login.cfm</a> SNOWFALL STOPPED MONTH &amp; YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.</p> <p><b>NOTE:</b> 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 ERIE PENNSYLVANIA (KERI)

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 History

ERIE, PA

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
ERIE PORT ERIE AP	1929-10-01	1948-01-01	42° 4'	-80° 10'			AIRWAYS
ERIE PORT ERIE AP	1948-01-01	1961-01-01	42° 4'	-80° 10'	738		AIRWAYS, COOP, USHCN
ERIE PORT ERIE AP	1961-01-01	1968-01-01	42° 4'	-80° 10'	731		AIRWAYS, COOP, USHCN
ERIE INTERNATIONAL AP	1968-01-01	1973-01-01	42° 4'	-80° 10'	731		AIRWAYS, COOP, USHCN
ERIE INTERNATIONAL AP	1983-12-16	1995-03-28	42° 4'	-80° 10'	730	400 FT NW	COOP, USHCN
ERIE INTERNATIONAL AP	1973-01-01	1981-12-31	42° 4'	-80° 10'	731		COOP, USHCN, WXSVC
ERIE INTERNATIONAL AP	1995-03-28	1995-10-01	42° 4'	-80° 10'	730		COOP, USHCN
ERIE INTERNATIONAL AP	1981-12-31	1983-12-16	42° 4'	-80° 10'	731		COOP, USHCN
ERIE INTERNATIONAL AP	1995-10-01	Present	42° 4'	-80° 10'	730		ASOS, COOP, USHCN

# Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	1929-10-01	1960-02-01	DAILY	2400	SRG		
TEMP	1960-02-01	1983-12-16	DAILY	2400	TEMPX		
TEMP	1995-07-01	Present	DAILY	2400	HYGR		
PRECIP	1995-07-01	Present	HOURLY	2400	UNIV	RCRD	
PRECIP	1995-07-01	Present	DAILY	2400	SRG		
PRECIP	1960-02-01	1983-12-16	HOURLY	2400			
PRECIP	1960-02-01	1983-12-16	DAILY	2400	SRG		
TEMP	1929-10-01	1960-02-01	DAILY	2400	TEMPX		
PRECIP	1983-12-16	1995-07-01	DAILY	2400	SRG		
TEMP	1983-12-16	1995-07-01	DAILY	2400	HYGR		
PRECIP	1983-12-16	1995-07-01	HOURLY	2400			

\* 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](mailto:ncdc.info@noaa.gov)

NOAA/National Climatic Data Center

Attn: User Engagement & Services Branch

151 Patton Avenue

Asheville, NC 28801-5001

Visit our Web Site for other weather data: [www.ncdc.noaa.gov](http://www.ncdc.noaa.gov)