

1997

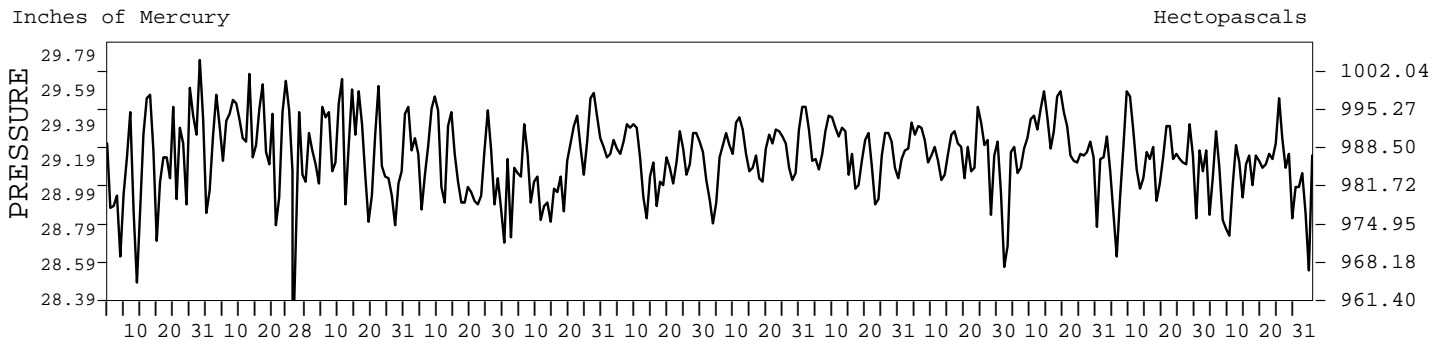
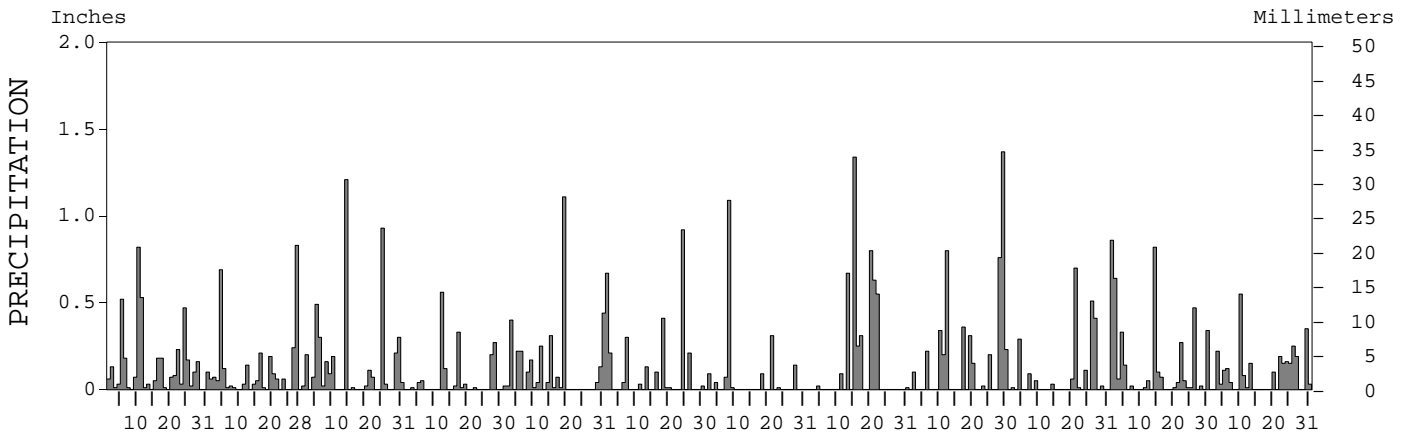
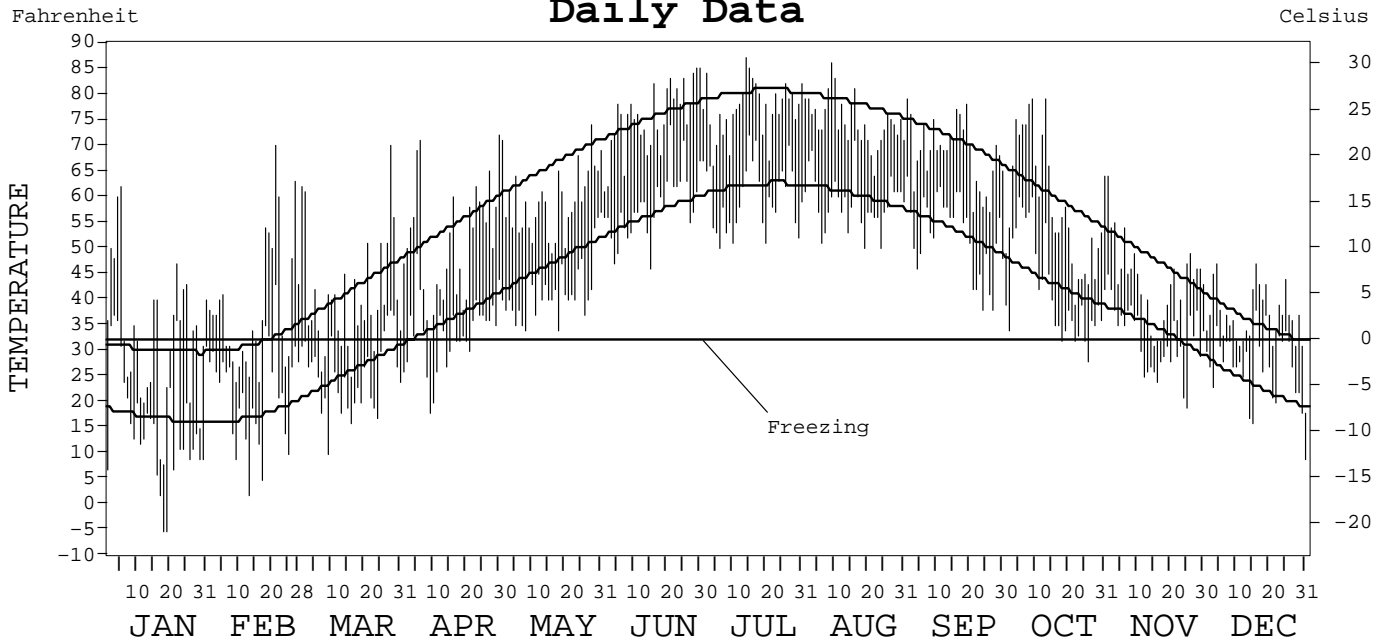
LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-358X

BUFFALO, NEW YORK (BUF)

Daily Data



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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL AND INFORMATION SERVICE
NATIONAL SATELLITE, DATA, AND INFORMATION SERVICE
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

Jenneth A. Schickel
ACTING DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 1997

BUFFALO, NY (BUF)

LATITUDE: 42° 56' 27" N LONGITUDE: 78° 44' 09" W ELEVATION (FT): GRND: 705 BARO: 715 TIME ZONE: EASTERN (UTC+ 5) WBAN: 14733

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	33.0	38.3	40.8	51.1	59.3	75.3	77.2	74.7	68.4	58.7	43.1	36.5	54.7	
	HIGHEST DAILY MAXIMUM	62	70	70	72	74	85	87	86	79	64	47	47	87	
	DATE OF OCCURRENCE	05	21	28	30	28	30+	14	09	01	13+	01	16+	JUL 14	
	MEAN DAILY MINIMUM	16.3	21.8	25.3	33.4	41.8	58.0	59.9	58.8	52.5	42.2	32.1	27.0	39.1	
	LOWEST DAILY MINIMUM	-5	2	10	18	34	46	50	50	38	28	19	9	-5	
	DATE OF OCCURRENCE	19+	13	09	09	18+	15	06	24+	27+	26	25	31	JAN 19+	
	AVERAGE DRY BULB	24.7	30.1	33.1	42.3	50.6	66.7	68.6	66.8	60.5	50.5	37.6	31.8	46.9	
	MEAN WET BULB	22.4		30.2	37.3	45.1	61.1	62.9	61.3	56.4	46.4	35.1	29.8		
	MEAN DEW POINT	17.8		24.6	29.9	38.7	56.8	58.7	57.5	52.7	42.0	31.2	25.7		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	MAXIMUM ≤ 32°	15	12	6	1	0	0	0	0	0	0	4	7	45	
	MINIMUM ≤ 32°	27	25	26	12	0	0	0	0	0	4	15	26	135	
	MINIMUM ≤ 0°	2	0	0	0	0	0	0	0	0	0	0	0	2	
H/C	HEATING DEGREE DAYS	1241	970	983	673	438	40	17	25	150	457	814	1023	6831	
	COOLING DEGREE DAYS	0	0	0	0	0	99	135	84	22	12	0	0	352	
RH	MEAN (PERCENT)	77	77	73	64	67	72	71	74	77	74	79	78	74	
	HOUR 01 LST	81	78	79	72	74	83	82	85	85	83	82	82	80	
	HOUR 07 LST	79	82	81	71	75	79	80	83	87	87	82	84	81	
	HOUR 13 LST	73	72	66	54	57	62	57	61	67	60	72	71	64	
	HOUR 19 LST	78	76	69	61	61	67	64	68	77	71	78	74	70	
S	PERCENT POSSIBLE SUNSHINE	18	29	39	52		67	64	53	53	48	22	29		
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	5	2	3	1	0	1	2	0	0	1	4	2	21	
	THUNDERSTORMS	0	0	0	0	5	5	6	4	5	2	0	0	27	
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.)	29.17		29.23	29.18	29.15	29.21	29.23	29.24	29.21	29.30	29.17	29.11		
	MEAN SEA-LEVEL PRESS. (IN.)	29.96		30.02	29.95	29.91	29.96	29.98	29.99	29.96	30.07	29.95	29.89		
WINDS	RESULTANT SPEED (MPH)	10.7		5.6	6.3	7.1	3.9	2.7	3.0	4.0	3.0	2.9	5.4		
	RES. DIR. (TENS OF DEGS.)	24		26	25	25	22	22	24	24	24	25	26		
	MEAN SPEED (MPH)	14.4	12.4	11.9	10.4	11.6	8.7	9.1	8.2	9.5	8.6	10.2	10.5	10.5	
	PREVAIL. DIR. (TENS OF DEGS.)	25	23	23	24	24	22	24	23	23	28	28	26	23	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	43	54	36	38	43	31	36	31	39	40	30	32	54	
	DIR. (TENS OF DEGS.)	24	24	24	24	24	24	25	27	26	23	28	23	24	
	DATE OF OCCURRENCE	25	27	14	07	01	25+	03	16+	29	27	26+	15	FEB 27	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	57	70	46	48	55	43	46	44	46	52	41	45	70	
DIR. (TENS OF DEGS.)	24	25	18	26	23	36	24	27	25	23	24	24	25		
DATE OF OCCURRENCE	25	27	14	06	01	24	03	16	29	27	26	15	FEB 27		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	4.25	2.97	4.47	1.65	3.61	3.06	1.85	4.67	5.06	2.29	4.32	2.88	41.08	
	GREATEST 24-HOUR (IN.)	1.31	1.07	1.21	0.57	1.12	0.92	1.09	1.59	2.05	0.92	1.07	0.58	2.05	
	DATE OF OCCURRENCE	10-11	26-27	14	12-13	18-19	24	08	15-16	28-29	26-27	01-02	10-11	SEP 28-29	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	26	20	19	12	19	13	9	10	13	12	20	18	191	
PRECIPITATION ≥ 0.10	13	7	10	5	10	8	3	7	12	5	9	13	102		
PRECIPITATION ≥ 1.00	0	0	1	0	1	0	1	1	1	0	0	0	5		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	42.4	9.3	13.4	2.1	0.0	0.0	0.0	0.0	0.0	0.2	16.5	16.8	100.7	
	GREATEST 24-HOUR (IN.)	12.1	3.8	7.2	1.6	0.0	0.0	0.0	0.0	0.0	0.2	9.5	6.6	12.1	
	DATE OF OCCURRENCE	10	16-17	05-06	17						22	14	10-11	JAN 10	
	MAXIMUM SNOW DEPTH (IN.)	15	4	6	T	0	0	0	0	0	0	8	6	15	
	DATE OF OCCURRENCE	12	17+	09+	17+							15+	14+	JAN 12	
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0	13	2	3	1	0	0	0	0	0	0	3	4	26		

NORMALS, MEANS, AND EXTREMES

BUFFALO, NY (BUF)

LATITUDE: 42° 56' 27" N LONGITUDE: 78° 44' 09" W ELEVATION (FT): GRND: 705 BARO: 715 TIME ZONE: EASTERN (UTC+ 5) WBAN: 14733

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	30.2	31.6	41.7	54.2	66.1	75.3	80.2	77.9	70.8	59.4	47.1	35.3	55.8
	MEAN DAILY MAXIMUM	52	31.2	32.6	41.5	54.6	66.1	76.0	80.4	78.6	71.1	60.5	47.2	35.9	56.3
	HIGHEST DAILY MAXIMUM	54	72	70	81	94	90	96	97	99	98	87	80	74	99
	YEAR OF OCCURRENCE		1950	1997	1945	1990	1991	1988	1995	1948	1953	1951	1961	1982	AUG 1948
	MEAN OF EXTREME MAXS.	52	52.9	54.1	67.2	77.2	83.6	88.8	90.1	88.6	85.9	78.2	67.9	56.6	74.3
	NORMAL DAILY MINIMUM	30	17.0	17.4	25.9	36.2	47.0	56.5	61.9	60.1	53.0	42.7	33.9	22.9	39.5
	MEAN DAILY MINIMUM	52	17.9	18.1	25.7	36.2	46.5	56.5	61.7	60.0	52.7	43.1	33.7	23.4	39.6
	LOWEST DAILY MINIMUM	54	-16	-20	-7	12	26	35	43	38	32	20	9	-10	-20
	YEAR OF OCCURRENCE		1982	1961	1984	1982	1947	1945	1945	1982	1991	1965	1971	1980	FEB 1961
	MEAN OF EXTREME MINS.	52	-9	-4	8.0	22.9	33.4	43.4	50.6	47.5	37.4	29.4	18.5	3.9	24.5
	NORMAL DRY BULB	30	23.6	24.5	33.8	45.2	56.6	65.9	71.1	69.0	61.9	51.1	40.5	29.1	47.7
	MEAN DRY BULB	52	24.6	25.4	33.6	45.4	56.4	66.2	71.1	69.4	61.9	51.8	40.4	29.6	48.0
	MEAN WET BULB	14	23.5	23.4	30.3	40.8	50.6	59.8	64.2	63.2	56.4	46.3	36.4	27.9	43.6
	MEAN DEW POINT	14	18.6	18.4	24.1	34.3	44.4	54.9	59.6	58.9	52.2	41.3	31.4	23.3	38.4
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	*	0.1	0.6	1.6	0.7	*	0.0	0.0	0.0	3.0	
MAXIMUM ≤ 32°	30	17.5	15.4	7.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	2.0	12.3	55.0	
MINIMUM ≤ 32°	30	28.6	25.7	23.9	10.5	0.7	0.0	0.0	0.0	*	3.1	13.9	25.9	132.3	
MINIMUM ≤ 0°	30	2.2	1.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	4.4	
H/C	NORMAL HEATING DEG. DAYS	30	1283	1134	967	594	279	59	5	17	130	431	735	1113	6747
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	19	86	194	141	37	0	0	0	477
RH	NORMAL (PERCENT)	30	76	76	73	68	67	69	68	72	74	73	76	78	72
	HOUR 01 LST	30	77	79	78	75	76	79	79	83	83	80	79	79	79
	HOUR 07 LST	30	79	80	80	76	75	77	78	83	84	82	80	81	80
	HOUR 13 LST	30	72	70	65	58	56	56	55	58	60	61	69	73	63
	HOUR 19 LST	30	76	75	72	64	62	62	60	66	72	73	76	77	70
S	PERCENT POSSIBLE SUNSHINE	54	31	38	46	50	58	64	67	64	57	50	29	27	48
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	55	1.6	1.8	2.6	2.1	2.3	1.2	0.8	0.9	1.0	1.3	1.3	1.3	18.2
	THUNDERSTORMS	55	0.2	0.2	1.2	2.3	3.2	5.2	5.8	5.9	3.7	1.6	1.1	0.4	30.8
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)														
	MIDNIGHT-MIDNIGHT (OKTAS)														8.8
	MEAN NO. DAYS WITH:														
CLEAR				5.0		4.0	4.0								
PARTLY CLOUDY				4.0		8.0	5.0								
CLOUDY	1	3.0	4.0	9.0		7.0	8.0								
PR	MEAN STATION PRESSURE (IN)	25	29.29	29.30	29.20	29.20	29.20	29.20	29.20	29.30	29.30	29.30	29.30	29.29	29.26
	MEAN SEA-LEVEL PRES. (IN)	14	30.05	30.07	30.06	29.97	29.99	29.96	29.99	30.04	30.06	30.08	30.07	30.06	30.03
WINDS	MEAN SPEED (MPH)	49	13.9	13.2	12.8	12.4	11.2	10.6	10.2	9.5	10.0	10.7	12.3	12.9	11.6
	PREVAIL. DIR (TENS OF DEGS)	30	27	24	24	24	24	24	24	24	24	24	27	27	24
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	2	44	54	41	38	43	31	36	31	39	46	44	43	54
	DIR. (TENS OF DEGS)		23	24	23	24	24	07	25	27	26	24	21	23	24
	YEAR OF OCCURRENCE		1996	1997	1996	1997	1997	1996	1997	1997	1997	1996	1996	1996	FEB 1997
	MAXIMUM 5-SECOND:														
SPEED (MPH)	2	57	70	51	48	55	47	46	44	46	60	56	54	70	
DIR. (TENS OF DEGS)		24	25	22	26	23	07	24	27	25	24	20	23	25	
YEAR OF OCCURRENCE		1997	1997	1996	1997	1997	1996	1997	1997	1997	1996	1996	1996	FEB 1997	
PRECIPITATION	NORMAL (IN)	30	2.70	2.31	2.68	2.87	3.14	3.55	3.08	4.17	3.49	3.09	3.83	3.67	38.58
	MAXIMUM MONTHLY (IN)	54	6.88	5.90	5.97	5.90	7.22	8.36	8.93	10.67	8.99	9.13	9.75	8.71	10.67
	YEAR OF OCCURRENCE		1982	1990	1991	1961	1989	1987	1992	1977	1977	1954	1985	1990	AUG 1977
	MINIMUM MONTHLY (IN)	54	1.03	0.81	1.20	1.27	1.21	0.11	0.93	1.10	0.77	0.30	1.44	0.69	0.11
	YEAR OF OCCURRENCE		1946	1968	1967	1946	1965	1955	1989	1948	1964	1963	1944	1943	JUN 1955
	MAXIMUM IN 24 HOURS (IN)	54	2.57	2.31	2.14	2.09	3.52	5.01	3.38	3.88	4.94	3.49	2.51	2.33	5.01
	YEAR OF OCCURRENCE		1982	1954	1954	1991	1986	1987	1963	1963	1979	1945	1949	1990	JUN 1987
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	19.8	17.7	16.1	14.0	12.3	11.2	9.8	11.3	11.3	12.8	16.0	20.1	172.4	
PRECIPITATION ≥ 1.00	30	0.2	0.2	0.2	0.2	0.5	0.8	0.7	1.0	0.7	0.5	0.5	0.4	5.9	
SNOWFALL	NORMAL (IN)	30	25.7	18.2	10.3	3.8	0.3	0.0	0.0	0.0	0.2	9.9	23.8	92.2	
	MAXIMUM MONTHLY (IN)	54	68.3	54.2	29.3	15.0	7.9	T	T	T	3.1	31.3	68.4	68.4	
	YEAR OF OCCURRENCE		1977	1958	1993	1975	1989	1980	1993	1991	1994	1972	1976	1985	DEC 1985
	MAXIMUM IN 24 HOURS (IN)	54	25.3	19.4	17.2	6.8	7.9	T	T	T	2.8	19.9	37.9	37.9	
	YEAR OF OCCURRENCE		1982	1984	1993	1975	1989	1980	1993	1991	1994	1993	1955	1995	DEC 1995
	MAXIMUM SNOW DEPTH (IN)	49	38	42	20	12	4	0	0	0	0	2	16	28	42
	YEAR OF OCCURRENCE		1977	1977	1984	1975	1989					1972	1955	1995	FEB 1977
	NORMAL NO. DAYS WITH:														
SNOWFALL ≥ 1.0	30	7.6	5.8	3.3	1.1	0.1	0.0	0.0	0.0	0.0	0.1	2.8	6.7	27.5	

PRECIPITATION (inches) 1997 BUFFALO, NY (BUF)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1968	2.18	0.81	2.67	1.78	3.30	4.45	1.19	5.33	5.63	3.03	4.47	3.42	38.26
1969	3.85	0.97	1.62	4.16	3.75	3.51	3.83	2.48	2.04	2.77	4.09	3.09	36.16
1970	2.06	1.74	1.72	2.54	2.87	2.55	4.02	2.01	4.55	4.20	3.20	3.25	34.71
1971	1.46	3.03	2.07	1.48	1.56	4.25	4.50	4.43	1.88	1.57	3.07	3.61	32.91
1972	2.17	3.44	3.99	2.99	3.64	6.06	0.99	4.19	3.06	2.96	4.28	3.86	41.63
1973	2.03	1.98	3.27	3.56	2.99	1.68	3.68	2.98	1.44	4.27	4.07	4.89	36.84
1974	2.44	2.19	3.19	3.15	3.36	3.86	1.80	3.64	2.42	1.75	5.38	3.13	36.31
1975	2.11	2.93	2.92	1.86	3.31	3.65	2.34	8.49	2.44	1.13	2.77	4.58	38.53
1976	3.19	3.43	5.59	4.01	4.70	3.36	5.65	1.65	5.39	3.61	2.11	3.83	46.52
1977	3.38	1.59	2.42	3.60	1.39	2.79	3.64	10.67	8.99	2.61	4.45	8.02	53.55
1978	6.29	1.36	1.72	1.84	3.95	2.42	1.48	3.51	4.40	3.72	1.55	3.50	35.74
1979	5.43	2.03	2.48	3.16	1.63	2.18	3.51	6.26	5.61	3.88	4.14	3.43	43.74
1980	1.97	1.08	4.05	2.43	1.60	5.82	3.55	3.58	4.53	4.69	2.36	2.65	38.31
1981	1.11	3.50	1.70	3.09	2.56	3.68	5.05	3.13	4.24	3.31	2.22	2.87	36.46
1982	6.88	1.28	2.64	2.33	3.66	3.14	1.50	4.62	3.37	2.06	6.31	3.32	41.11
1983	1.44	1.30	3.20	2.55	3.28	2.99	2.01	3.51	2.11	4.62	5.19	7.30	39.50
1984	1.54	3.59	1.77	2.53	4.67	6.86	1.37	4.16	3.73	0.87	2.66	3.67	37.42
1985	4.27	3.34	4.42	1.33	3.46	3.21	1.81	4.63	1.20	3.73	9.75	4.85	46.00
1986	2.31	2.60	1.95	3.33	4.42	4.15	2.82	2.73	3.88	4.34	3.11	4.02	39.66
1987	2.90	0.85	3.66	3.40	1.35	8.36	3.09	3.38	5.32	2.62	4.44	2.78	42.15
1988	1.58	4.07	2.99	2.96	2.74	1.56	6.35	2.69	2.07	6.08	3.37	2.15	38.61
1989	1.77	2.54	3.15	1.88	7.22	7.83	0.93	1.84	3.85	2.98	4.83	2.34	41.16
1990	2.69	5.90	1.50	5.22	6.08	3.55	3.14	3.25	3.65	4.59	2.61	8.71	50.89
1991	2.07	2.06	5.97	5.83	3.10	0.86	3.34	2.84	3.19	3.11	4.02	3.81	40.20
1992	2.01	2.45	2.93	4.68	3.48	2.21	8.93	3.79	5.56	2.80	4.92	3.80	47.56
1993	4.35	1.92	3.02	2.55	1.79	4.99	1.78	3.86	5.53	3.69	3.58	3.60	40.66
1994	2.90	1.40	2.61	4.02	3.54	4.27	2.08	4.09	3.19	1.87	4.08	2.67	36.72
1995	4.89	2.62	1.33	1.41	2.40	1.33	3.53	2.07	1.32	6.07	4.14	2.88	33.99
1996	3.42	2.09	2.37	5.63	4.08	5.20	5.15	2.14	7.51	4.22	2.99	3.42	48.22
1997	4.25	2.97	4.47	1.65	3.61	3.06	1.85	4.67	5.06	2.29	4.32	2.88	41.08
POR= 127 YRS	3.09	2.68	2.78	2.76	2.97	2.94	2.91	3.20	3.15	3.10	3.31	3.30	36.19

WBAN : 14733

AVERAGE TEMPERATURE (°F) 1997 BUFFALO, NY (BUF)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1968	19.9	20.7	35.7	49.2	53.4	64.8	71.2	69.4	66.1	53.5	40.7	26.8	47.6
1969	25.0	24.6	30.9	46.8	54.4	64.4	70.5	71.2	62.2	51.0	39.1	24.8	47.1
1970	17.6	24.8	30.1	46.9	57.3	66.0	71.0	70.2	64.0	54.5	41.6	27.4	47.6
1971	20.9	27.0	29.8	41.8	54.5	67.6	68.7	67.8	65.4	58.7	39.1	33.5	47.9
1972	25.5	22.0	30.1	41.1	59.1	62.6	71.0	67.7	62.8	46.2	36.0	30.8	46.2
1973	27.6	22.9	42.4	46.9	54.5	68.2	72.3	71.8	61.7	54.3	40.8	29.0	49.4
1974	27.1	22.3	33.0	46.2	53.1	65.6	69.9	69.9	59.6	49.2	40.2	31.7	47.3
1975	30.1	29.1	30.8	39.3	62.1	68.0	72.3	69.7	58.3	53.1	46.9	28.3	49.0
1976	19.7	31.8	37.2	46.5	53.4	68.4	67.8	67.5	60.1	46.3	34.1	22.0	46.2
1977	13.8	24.6	39.8	47.0	60.3	64.4	72.0	68.1	62.6	49.6	43.3	27.9	47.8
1978	20.4	15.5	28.2	42.5	57.4	65.1	70.4	70.3	60.8	49.5	40.4	30.4	45.9
1979	20.5	14.9	38.2	44.3	56.9	66.5	71.3	67.5	61.9	50.7	43.5	33.4	47.5
1980	25.8	21.2	31.8	46.1	58.1	61.9	71.7	72.6	62.4	48.7	39.4	25.3	47.1
1981	19.3	32.9	33.9	47.2	56.4	66.2	71.8	70.0	60.9	48.2	40.4	29.0	48.0
1982	17.2	23.2	32.5	41.6	61.0	62.2	71.8	65.0	61.6	52.6	43.0	37.5	47.4
1983	27.0	29.6	36.7	43.6	53.9	67.6	74.2	71.2	63.7	51.7	40.8	22.7	48.6
1984	20.4	33.8	27.1	47.7	52.9	67.8	70.3	70.3	58.5	53.2	39.0	35.6	48.1
1985	21.1	24.8	35.6	49.5	59.5	62.7	69.7	69.2	64.2	52.5	42.0	25.6	48.0
1986	25.5	24.5	36.2	47.8	59.7	64.1	71.1	67.9	61.8	50.9	37.7	32.4	48.3
1987	26.1	25.0	37.7	50.0	60.5	68.9	74.2	68.9	63.4	47.9	42.5	34.3	50.0
1988	26.6	24.3	35.2	46.1	59.7	64.0	74.8	72.4	62.1	46.9	43.0	30.0	48.8
1989	31.3	22.7	33.0	41.9	55.1	65.9	71.5	68.5	60.8	51.5	37.9	17.4	46.5
1990	33.4	29.3	36.9	48.5	54.9	66.7	71.4	70.4	61.7	52.5	43.4	34.4	50.3
1991	26.0	30.6	37.8	50.5	64.3	69.1	71.9	71.0	62.0	53.1	39.3	31.3	50.6
1992	27.1	27.7	31.6	43.8	57.3	63.4	66.8	66.3	61.6	47.9	40.2	31.9	47.1
1993	29.5	20.7	30.7	47.3	57.0	66.0	73.4	72.0	59.4	49.2	39.6	29.6	47.9
1994	17.2	22.8	33.4	48.2	54.7	69.0	73.3	68.0	61.9	52.2	45.1	34.0	48.3
1995	29.8	21.9	37.8	42.3	56.8	69.9	72.7	73.0	60.0	54.2	36.4	24.5	48.3
1996	22.5	24.2	29.0	42.2	54.5	67.8	68.5	70.5	62.7	51.7	35.4	33.5	46.9
1997	24.7	30.1	33.1	42.3	50.6	66.7	68.6	66.8	60.5	50.5	37.6	31.8	46.9
POR= 124 YRS	24.9	24.6	32.6	43.7	55.0	64.8	70.5	69.0	62.4	51.5	40.1	29.5	47.4

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HEATING DEGREE DAYS (base 65°F) 1997 BUFFALO, NY (BUF)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1968-69	11	29	58	374	722	1180	1233	1125	1052	540	325	102	6751
1969-70	13	16	147	433	769	1240	1459	1121	1076	552	255	66	7147
1970-71	6	6	93	328	695	1161	1361	1057	1085	691	327	36	6846
1971-72	11	29	87	202	771	971	1218	1237	1070	707	187	112	6602
1972-73	16	33	113	574	860	1054	1152	1173	696	542	318	24	6555
1973-74	2	14	171	326	720	1107	1167	1187	989	553	365	51	6652
1974-75	2	0	187	483	738	1024	1077	1001	1053	764	175	32	6536
1975-76	3	15	197	368	535	1134	1400	958	853	557	358	40	6418
1976-77	15	35	180	573	921	1328	1580	1123	775	544	207	90	7371
1977-78	5	40	110	473	646	1146	1376	1378	1130	670	282	81	7337
1978-79	14	3	154	472	732	1067	1371	1400	823	619	285	65	7005
1979-80	16	35	134	455	636	973	1208	1265	1022	559	240	142	6685
1980-81	2	0	128	498	759	1224	1411	895	956	527	269	33	6702
1981-82	6	11	170	514	732	1108	1476	1163	1002	698	147	95	7122
1982-83	4	65	140	382	656	848	1172	987	868	636	342	71	6171
1983-84	5	10	125	418	722	1304	1378	899	1167	519	385	35	6967
1984-85	11	22	210	360	774	905	1354	1120	902	476	196	95	6425
1985-86	8	12	114	378	685	1215	1215	1128	885	519	197	80	6436
1986-87	4	42	137	430	811	1003	1199	1115	837	447	213	28	6266
1987-88	3	25	91	527	665	948	1184	1174	916	560	186	113	6392
1988-89	5	17	122	560	654	1078	1038	1177	985	687	321	60	6704
1989-90	1	28	170	411	806	1466	970	995	866	518	311	46	6588
1990-91	5	2	141	395	640	941	1203	956	836	431	141	22	5713
1991-92	1	1	166	376	762	1037	1169	1076	1027	633	254	93	6595
1992-93	28	41	148	525	738	1021	1095	1235	1053	526	257	60	6727
1993-94	0	8	212	486	752	1089	1476	1174	972	502	327	48	7046
1994-95	0	26	123	390	591	955	1085	1201	835	674	247	22	6149
1995-96	14	3	164	329	851	1250	1310	1178	1107	677	333	22	7238
1996-97	15	1	130	406	881	969	1241	970	983	673	438	40	6747
1997-	17	25	150	457	814	1023							

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COOLING DEGREE DAYS (base 65°F) 1997 BUFFALO, NY (BUF)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1969	0	0	0	0	1	88	192	212	69	6	0	0	568
1970	0	0	0	16	21	108	197	173	72	12	0	0	599
1971	0	0	0	0	9	119	136	122	107	15	0	0	508
1972	0	0	0	0	12	48	210	123	57	0	0	0	450
1973	0	0	0	6	2	126	233	230	78	3	0	0	678
1974	0	0	0	0	7	71	163	158	29	0	0	0	428
1975	0	0	0	0	90	129	238	171	3	3	0	0	634
1976	0	0	0	8	7	149	109	119	40	0	0	0	432
1977	0	0	0	12	68	78	228	142	45	0	1	0	574
1978	0	0	0	0	52	91	189	173	35	0	0	0	540
1979	0	0	0	6	40	118	217	120	49	20	0	0	570
1980	0	0	0	0	32	56	217	242	58	2	0	0	607
1981	0	0	0	2	13	78	225	173	55	0	0	0	546
1982	0	0	0	3	31	18	221	74	45	2	0	2	396
1983	0	0	0	0	5	157	300	214	90	15	0	0	781
1984	0	0	0	5	16	123	183	193	23	1	0	0	544
1985	0	0	0	18	32	32	161	151	96	0	1	0	491
1986	0	0	0	7	38	60	200	137	46	0	0	0	488
1987	0	0	0	4	79	151	298	152	49	0	0	0	733
1988	0	0	0	0	29	88	315	255	41	8	0	0	736
1989	0	0	0	0	21	97	207	143	50	0	0	0	518
1990	0	0	3	29	4	104	208	176	47	14	0	0	585
1991	0	0	0	3	125	153	221	193	83	13	0	0	791
1992	0	0	0	1	24	53	90	90	55	0	0	0	313
1993	0	0	0	0	14	97	267	231	51	3	0	0	663
1994	0	0	0	5	14	175	267	125	36	2	0	0	624
1995	0	0	0	0	2	176	262	256	21	1	0	0	718
1996	0	0	0	0	12	108	131	177	65	2	0	0	495
1997	0	0	0	0	0	99	135	84	22	12	0	0	352

SNOWFALL (inches) 1997 BUFFALO, NY (BUF)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1968-69	0.0	0.0	0.0	T	11.6	11.7	31.2	12.8	8.0	3.1	0.0	0.0	78.4
1969-70	0.0	0.0	0.0	1.0	22.1	23.4	38.0	21.9	12.6	1.5	T	0.0	120.5
1970-71	0.0	0.0	0.0	0.0	2.6	32.3	17.2	19.4	22.6	2.9	0.0	0.0	97.0
1971-72	0.0	0.0	0.0	0.0	18.7	12.9	27.6	31.4	14.1	5.2	0.0	0.0	109.9
1972-73	0.0	0.0	0.0	3.1	18.9	19.8	9.9	16.1	8.5	2.4	0.1	0.0	78.8
1973-74	0.0	0.0	0.0	0.0	3.0	23.1	19.7	22.8	12.9	7.1	0.1	0.0	88.7
1974-75	0.0	0.0	0.0	T	22.1	23.6	11.0	16.3	7.6	15.0	0.0	0.0	95.6
1975-76	0.0	0.0	0.0	T	5.5	27.3	21.6	8.3	17.3	2.5	T	0.0	82.5
1976-77	0.0	0.0	0.0	0.2	31.3	60.7	68.3	22.7	13.5	2.2	0.5	0.0	199.4
1977-78	0.0	0.0	0.0	T	15.0	53.4	56.5	21.7	5.8	1.8	0.1	0.0	154.3
1978-79	0.0	0.0	0.0	T	3.0	10.1	42.6	28.3	4.6	8.7	0.0	0.0	97.3
1979-80	0.0	0.0	0.0	T	12.6	19.7	10.2	11.7	13.9	0.3	T	T	68.4
1980-81	0.0	0.0	0.0	T	6.7	21.6	14.4	5.0	13.2	T	0.0	0.0	60.9
1981-82	0.0	0.0	0.0	T	1.8	24.8	53.2	12.7	9.0	10.9	0.0	0.0	112.4
1982-83	0.0	0.0	0.0	0.0	15.8	12.9	9.0	5.5	6.9	2.3	T	0.0	52.4
1983-84	0.0	0.0	0.0	T	17.7	52.0	13.4	32.5	16.0	0.9	T	0.0	132.5
1984-85	0.0	0.0	0.0	0.0	1.4	11.2	65.9	20.9	6.3	1.5	0.0	0.0	107.2
1985-86	0.0	0.0	0.0	0.0	5.2	68.4	17.3	17.3	4.8	1.7	T	0.0	114.7
1986-87	0.0	0.0	0.0	0.0	13.7	4.8	28.5	7.7	10.8	2.0	0.0	0.0	67.5
1987-88	0.0	0.0	0.0	T	0.9	9.8	6.9	31.9	6.1	0.8	0.0	0.0	56.4
1988-89	0.0	0.0	0.0	0.5	0.6	10.8	5.4	29.6	10.1	2.5	7.9	0.0	67.4
1989-90	0.0	0.0	0.0	T	7.8	34.8	11.8	28.0	1.4	9.9	T	0.0	93.7
1990-91	0.0	0.0	0.0	T	0.7	15.4	16.6	16.1	8.5	0.2	T	0.0	57.5
1991-92	0.0	T	0.0	0.2	18.0	21.4	18.4	7.0	22.8	5.0	0.0	0.0	92.8
1992-93	0.0	0.0	0.0	0.6	13.7	16.5	13.1	19.5	29.3	0.5	T	0.0	93.2
1993-94	T	0.0	T	2.9	4.8	27.9	35.4	21.6	13.2	6.9	0.0	0.0	112.7
1994-95	0.0	0.0	T	0.0	0.9	7.8	23.1	34.6	4.3	3.9	T	0.0	74.6
1995-96	0.0	0.0	0.0	0.0	15.7	61.2	25.3	11.9	24.1	3.2	T	0.0	97.6
1996-97	0.0	0.0	0.0	0.0	11.5	18.9	42.4	9.3	13.4	2.1	0.0	0.0	97.6
1997-	0.0	0.0	0.0	0.2	16.5	16.8							
POR= 53 YRS	T	T	T	0.3	11.4	23.1	23.6	18.0	11.6	3.1	0.4	T	91.5

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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 EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
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1997
BUFFALO,
NEW YORK (BUF)

The country surrounding Buffalo is comparatively low and level to the west. To the east and south the land is gently rolling, rising to pronounced hills within 12 to 18 miles, and to 1,000 feet above the level of Lake Erie about 35 miles south-southeast of the city. An escarpment of 50 to 100 feet lies east-west 1-1/2 miles to the north. The eastern end of Lake Erie is 9 miles to the west-southwest, while Lake Ontario lies 25 miles to the north, the two being connected by the Niagara River, which flows north-northwestward from the end of Lake Erie.

Buffalo is located near the mean position of the polar front. Its weather is varied and changeable, characteristic of the latitude. Wide seasonal swings of temperature from hot to cold are tempered appreciably by the proximity of Lakes Erie and Ontario. Lake Erie lies to the southwest, the direction of the prevailing wind. Wind flow throughout the year is somewhat higher due to this exposure. The vigorous interplay of warm and cold air masses during the winter and early spring months causes one or more windstorms. Precipitation is moderate and fairly evenly divided throughout the twelve months.

The spring season is more cloudy and cooler than points not affected by the cold lake. Spring growth of vegetation is retarded, protecting it from late spring frosts. With heavy winter ice accumulations in the lake, typical spring conditions are delayed until late May or early June.

Summer comes suddenly in mid-June. Lake breezes temper the extreme heat of the summer season. Temperatures of 90 degrees and above are infrequent. There is more summer sunshine here than in any other section of the state. Due to the stabilizing effects of Lake Erie, thunderstorms are relatively infrequent. Most of them are caused by frontal action. To the north and south of the city thunderstorms occur more often.

Autumn has long, dry periods and is frost free usually until mid-October. Cloudiness increases in November, continuing mostly cloudy throughout the winter and early spring. Snow flurries off the lake begin in mid-November or early December. Outbreaks of Arctic air in December and throughout the winter months produce locally heavy snowfalls from the lake. At the same time, temperatures of well below zero over Canada and the midwest are raised 10 to 30 degrees in crossing the lakes. Only on rare occasions do polar air masses drop southward from eastern Hudson Bay across Lake Ontario without appreciable warming.

