

2004

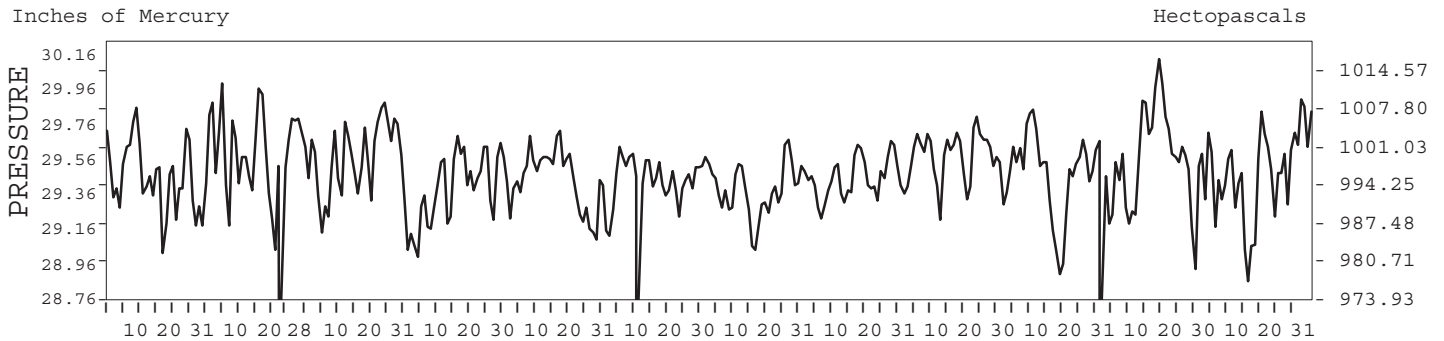
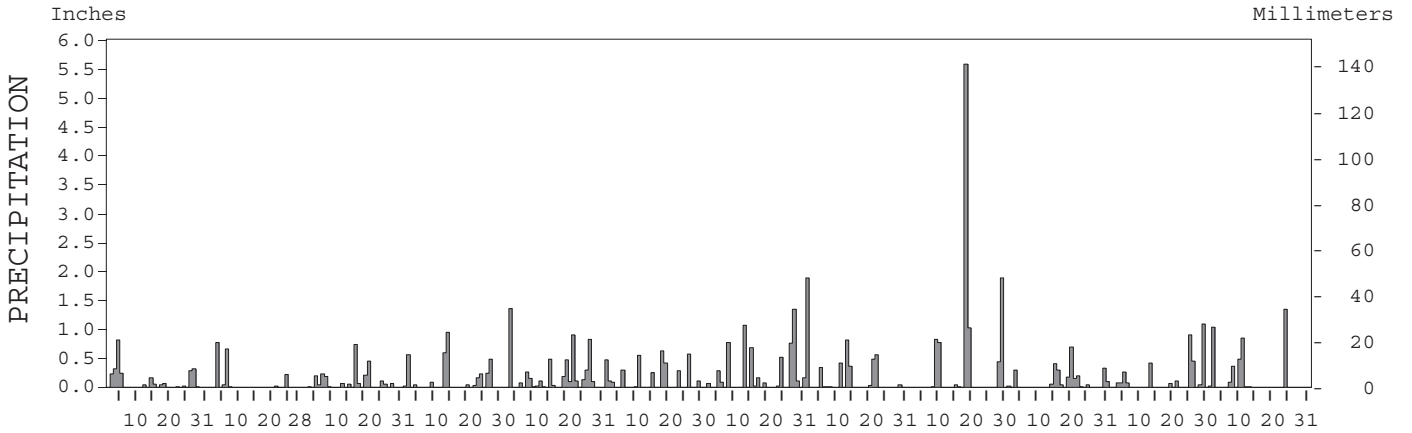
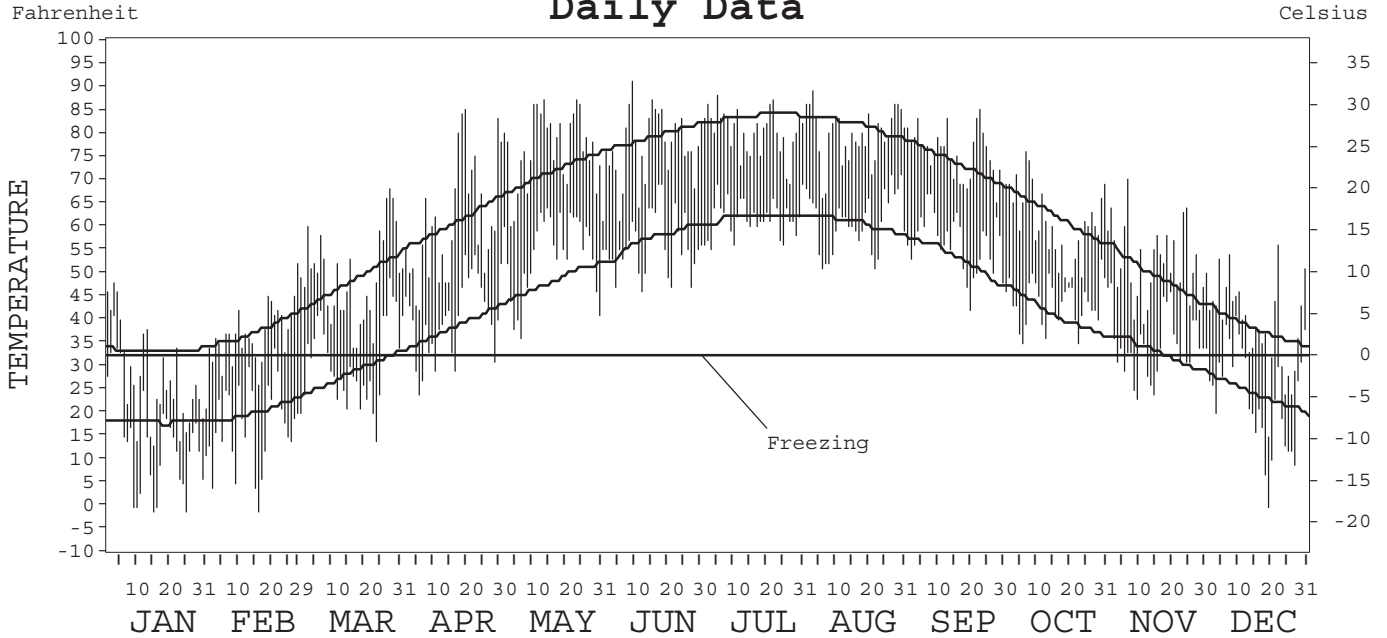
LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-4551

WILLIAMSPORT, PENNSYLVANIA (IPT)

Daily Data



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METEOROLOGICAL DATA FOR 2004

WILLIAMSPORT, PA (IPT)

LATITUDE: 41° 14' 36" N LONGITUDE: 76° 55' 18" W ELEVATION (FT): GRND: 540 BARO: 543 TIME ZONE: EASTERN (UTC + 5) WBAN: 14778

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	27.2	37.5	49.2	60.9	76.3	77.4	80.3	79.6	75.6	60.6	52.2	39.2	59.7	
	HIGHEST DAILY MAXIMUM	48	52	68	85	87	91	88	89	85	76	70	56	91	
	DATE OF OCCURRENCE	03	28	27	19	23+	09	05	03	23	07	07	23	JUN 09	
	MEAN DAILY MINIMUM	14.2	17.6	31.3	40.2	54.1	56.0	61.7	60.8	56.3	43.6	34.9	23.9	41.2	
	LOWEST DAILY MINIMUM	-1	-1	14	24	36	46	55	51	42	35	23	0	-1	
	DATE OF OCCURRENCE	25+	16	23	05	06	12	03	22+	20	23+	10	20	FEB 16	
	AVERAGE DRY BULB	20.7	27.6	40.3	50.6	65.2	66.7	71.0	70.2	66.0	52.1	43.6	31.6	50.5	
	MEAN WET BULB	18.5	24.8	36.3	44.9	59.9	66.3	64.6	60.7	60.7	60.7	39.4	28.9		
	MEAN DEW POINT	10.7	17.4	30.5	37.7	56.1		63.8	61.8	57.7		33.7	22.3		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	0	1	0	0	0	0	0	0	0	1
	MAXIMUM ≤ 32°	22	6	0	0	0	0	0	0	0	0	0	7	35	
	MINIMUM ≤ 32°	27	28	18	6	0	0	0	0	0	0	11	24	114	
MINIMUM ≤ 0°	5	1	0	0	0	0	0	0	0	0	0	1	7		
H/C	HEATING DEGREE DAYS	1366	1079	759	430	91	50	0	15	34	393	637	1031	5885	
	COOLING DEGREE DAYS	0	0	0	6	104	109	194	182	72	0	0	0	667	
RH	MEAN (PERCENT)	65	66	72	66	76	75	81	79	79	78	71	68	73	
	HOUR 01 LST	64	74	81	77	89	88	92	91	89	88	78	73	82	
	HOUR 07 LST	71	78	84	79	89	88	89	91	92	89	82	76	84	
	HOUR 13 LST	60	55	58	51	62	59	66	59	62	62	58	58	59	
	HOUR 19 LST	62	60	68	59	68	66	75	75	78	77	68	66	68	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	2	3	5	3	7	5	2	7	8	6	3	1	52	
	THUNDERSTORMS	0	0	0	1	13	6	5	2	0	2	1	0	30	
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.)	29.45		29.56	29.39	29.43		29.38	29.45	29.57		29.57	29.48		
	MEAN SEA-LEVEL PRESS. (IN.)	30.04		30.14	29.96	29.99		29.94				30.15	30.06		
WINDS	RESULTANT SPEED (MPH)	5.7	3.8	1.8	2.2	0.9		0.5	1.0	0.5		1.8	2.3		
	RES. DIR. (TENS OF DEGS.)	29	28	29	29	23		15	26	34		30	30		
	MEAN SPEED (MPH)	9.4	6.6	6.8	7.7	5.7	4.6	5.0	4.6	4.4	4.9	6.5	7.6	6.1	
	PREVAIL. DIR. (TENS OF DEGS.)	27	27	27	27	26	26	25	26	29	08	26	26	27	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	29	26	30	33	35	29	29	22	28	25	31	39	39	
	DIR. (TENS OF DEGS.)	26	26	27	25	26	26	26	16	08	27	28	25	25	
	DATE OF OCCURRENCE	06	21	12	19	02	17	07	25+	09	15	28	23	DEC 23	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	39	36	39	40	45	35	35	26	36	33	41	52	52	
DIR. (TENS OF DEGS.)	26	26	27	25	26	27	26	16	08	28	25	27	27		
DATE OF OCCURRENCE	06	21	12	19	02	17+	07	25+	09	15	05	23	DEC 23		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	2.57	1.72	2.46	3.40	6.05	3.29	7.99	3.07	10.61	2.74	3.54	4.16	51.60	
	GREATEST 24-HOUR (IN.)	1.01	0.77	0.76	1.15	1.36	0.62	2.03	1.17	6.52	0.84	1.19	1.34	6.52	
	DATE OF OCCURRENCE	04-05	03	16-17	12-13	02	17	30-31	12-13	17-18	18-19	24-25	23	SEP 17-18	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	14	6	16	11	20	11	16	11	10	13	12	8	148	
PRECIPITATION ≥ 0.10	7	3	7	7	13	9	11	6	6	8	6	5	88		
PRECIPITATION ≥ 1.00	0	0	0	0	1	0	3	0	3	0	1	2	10		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	14.8	12.2	14.7	T	0.0	0.0	0.0	0.0	0.0	0.0	T	0.5	42.2	
	GREATEST 24-HOUR (IN.)	5.3	7.9	10.2	T	0.0	0.0	0.0	0.0	0.0	0.0	T	0.5	10.2	
	DATE OF OCCURRENCE	27	03	16	04							25+	06	MAR 16	
	MAXIMUM SNOW DEPTH (IN.)	10		10											
	DATE OF OCCURRENCE	28+		16											
	NUMBER OF DAYS WITH:														
SNOWFALL ≥ 1.0	4	3	2	0	0	0	0	0	0	0	0	0	9		

NORMALS, MEANS, AND EXTREMES

WILLIAMSPORT, PA (IPT)

LATITUDE: 41° 14' 36" N LONGITUDE: 76° 55' 18" W ELEVATION (FT): GRND: 540 BARO: 543 TIME ZONE: EASTERN (UTC + 5) WBAN: 14778

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	33.2	37.1	47.8	60.2	71.3	78.9	83.2	81.4	73.3	61.8	49.0	37.8	59.6
	MEAN DAILY MAXIMUM	56	34.4	37.9	47.4	60.6	71.6	79.8	83.9	82.2	74.2	63.0	50.0	38.2	60.3
	HIGHEST DAILY MAXIMUM	60	69	71	87	92	96	102	103	100	102	91	83	69	103
	YEAR OF OCCURRENCE		1967	1985	1998	1990	1996	1952	1995	1955	1953	1951	1950	1998	JUL 1995
	MEAN OF EXTREME MAXS.	56	52.8	55.6	69.3	82.2	87.5	92.1	94.2	91.8	88.2	78.7	68.4	56.5	76.4
	NORMAL DAILY MINIMUM	30	17.9	19.9	28.2	37.8	47.8	56.8	61.7	60.4	52.8	40.9	32.7	23.7	40.0
	MEAN DAILY MINIMUM	56	18.8	20.7	28.5	38.4	47.8	56.9	61.5	60.3	52.9	41.4	33.1	23.7	40.3
	LOWEST DAILY MINIMUM	60	-20	-13	-2	15	28	36	43	38	28	20	8	-15	-20
	YEAR OF OCCURRENCE		1994	1971	1996	1982	1996	1986	1965	1947	1972	1976	1950	JAN 1994	
	MEAN OF EXTREME MINS.	56	-8	1.1	11.2	24.7	33.3	43.5	49.9	47.6	38.2	27.5	18.9	4.9	25.0
	NORMAL DRY BULB	30	25.5	28.5	38.0	49.0	59.5	67.8	72.4	70.9	63.1	51.3	40.8	30.7	49.8
	MEAN DRY BULB	56	26.6	29.3	37.8	49.6	59.8	68.4	72.7	71.3	63.6	52.2	41.6	31.0	50.3
	MEAN WET BULB	16	24.1	26.6	33.7	43.7	53.8	62.2	66.0	61.4	57.9	44.9	37.7	26.7	44.9
	MEAN DEW POINT	16	17.6	19.3	25.8	35.7	48.0	57.4	62.2	58.1	54.6	40.5	32.4	21.1	39.4
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	0.2	1.1	2.2	5.3	3.1	0.5	0.0	0.0	0.0	12.4	
MAXIMUM ≤ 32°	30	13.2	8.5	2.0	*	0.0	0.0	0.0	0.0	0.0	0.0	0.6	7.2	31.5	
MINIMUM ≤ 32°	30	28.1	23.9	20.4	7.6	0.6	0.0	0.0	0.0	*	4.6	14.8	24.5	124.5	
MINIMUM ≤ 0°	30	2.0	1.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	4.0	
H/C	NORMAL HEATING DEG. DAYS	30	1211	1014	824	471	196	38	6	12	116	417	710	1048	6063
	NORMAL COOLING DEG. DAYS	30	0	0	0	6	39	135	251	206	68	4	0	0	709
RH	NORMAL (PERCENT)	30	70	67	63	61	67	71	73	76	78	75	72	72	70
	HOUR 01 LST	30	74	73	71	71	81	86	88	90	90	85	79	76	80
	HOUR 07 LST	30	77	76	76	74	81	85	87	90	92	88	81	78	82
	HOUR 13 LST	30	62	57	52	48	52	56	56	58	61	58	61	63	57
	HOUR 19 LST	30	67	63	57	52	57	62	64	69	75	72	69	69	65
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	33	2.3	1.7	1.7	1.5	2.4	2.9	3.0	4.1	7.4	5.9	3.1	2.1	38.1
	THUNDERSTORMS	33	0.3	0.5	1.0	1.9	4.5	6.7	7.1	5.8	2.9	0.9	0.5	0.3	32.4
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	1			6.4			5.6							
	MIDNIGHT-MIDNIGHT (OKTAS)	1			6.4										
	MEAN NO. DAYS WITH:														
CLEAR	1	1.0	1.0	9.0		3.0	5.0								
PARTLY CLOUDY	1	2.0	2.0	2.0		6.0	9.0								
CLOUDY	1	2.0	5.0	10.0		10.0	9.0								
PR	MEAN STATION PRESSURE (IN)	32	29.50	29.51	29.47	29.42	29.43	29.42	29.45	29.50	29.52	29.54	29.52	29.52	29.48
	MEAN SEA-LEVEL PRES. (IN)	17	30.09	30.09	30.05	29.98	29.99	29.98	30.00	30.05	30.09	30.11	30.11	30.11	30.05
WINDS	MEAN SPEED (MPH)	37	8.5	8.5	9.0	8.8	7.4	6.6	6.4	5.7	6.0	6.4	7.9	8.0	7.4
	PREVAIL. DIR (TENS OF DEGS)	28	27	27	27	27	27	27	27	27	27	27	27	27	27
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	9	43	43	43	39	47	39	33	37	44	40	43	39	47
	DIR. (TENS OF DEGS)		24	26	24	26	25	28	22	36	25	26	25	25	25
	YEAR OF OCCURRENCE		1999	1997	2002	2000	1997	2000	2003	2001	2000	2001	1998	2004	MAY 1997
	MAXIMUM 5-SECOND:														
SPEED (MPH)	9	49	52	55	51	67	53	60	58	52	54	56	53	67	
DIR. (TENS OF DEGS)		27	25	25	31	25	25	28	27	11	28	26	29	25	
YEAR OF OCCURRENCE		2000	1997	2002	1996	1997	1996	2001	1997	2003	2003	2003	2000	MAY 1997	
PRECIPITATION	NORMAL (IN)	30	2.85	2.61	3.21	3.49	3.79	4.45	4.08	3.38	3.98	3.19	3.62	2.94	41.59
	MAXIMUM MONTHLY (IN)	60	8.25	8.42	5.96	7.55	9.45	16.80	9.65	7.67	12.60	9.60	8.09	7.36	16.80
	YEAR OF OCCURRENCE		1978	1981	1980	1993	1946	1972	1992	1988	1999	1990	1972	1973	JUN 1972
	MINIMUM MONTHLY (IN)	60	0.52	0.57	0.85	0.70	0.80	0.66	0.99	0.93	0.01	0.19	0.83	0.68	0.01
	YEAR OF OCCURRENCE		1985	1968	1995	1989	1964	1966	1955	1995	1995	1963	1976	1989	SEP 1995
	MAXIMUM IN 24 HOURS (IN)	60	3.06	2.72	2.52	2.71	4.15	8.66	3.30	5.53	6.68	4.38	3.46	3.29	8.66
	YEAR OF OCCURRENCE		1996	1971	1964	1977	1946	1972	2000	1988	1999	1955	1956	1983	JUN 1972
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	11.4	10.3	11.9	12.1	13.4	12.3	11.3	10.5	10.9	10.2	11.3	11.5	137.1	
PRECIPITATION ≥ 1.00	30	0.5	0.5	0.6	0.8	0.8	1.0	0.8	0.7	1.0	0.8	1.1	0.7	9.3	
SNOWFALL	NORMAL (IN)	30	12.5	9.3	7.4	1.2	0.*	0.0	0.0	0.0	0.1	3.0	6.5	40.0	
	MAXIMUM MONTHLY (IN)	59	40.1	34.3	29.5	13.8	0.2	T	T	T	0.0	1.7	13.8	35.5	40.1
	YEAR OF OCCURRENCE		1987	1972	1967	1982	1977	1995	1994	1994		2002	1995	1969	JAN 1987
	MAXIMUM IN 24 HOURS (IN)	59	23.1	20.4	15.0	8.8	0.2	T	T	T	0.0	1.5	12.1	16.5	23.1
	YEAR OF OCCURRENCE		1964	1972	1993	1982	1977	1995	1994	1994		2002	1953	1969	JAN 1964
	MAXIMUM SNOW DEPTH (IN)	49	70	22	24	8	0	0	0	0	0	1	10	19	70
	YEAR OF OCCURRENCE		1961	1972	1994	1982						2002	1980	1969	JAN 1961
NORMAL NO. DAYS WITH:															
SNOWFALL ≥ 1.0	30	3.5	2.9	1.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.8	11.2	

PRECIPITATION (inches) 2004 WILLIAMSPORT, PA (IPT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1975	3.53	4.34	3.07	1.53	6.54	5.25	3.66	4.43	10.02	2.98	2.83	3.24	51.42
1976	2.73	1.90	2.75	1.90	3.81	5.31	4.80	3.18	3.21	8.14	0.83	1.74	40.30
1977	1.35	1.74	5.74	6.79	1.02	3.51	3.59	2.29	7.30	4.22	5.45	4.22	47.22
1978	8.25	0.86	2.70	2.01	6.36	4.60	3.99	3.56	2.84	2.76	1.78	3.68	43.39
1979	6.36	3.20	3.18	2.73	4.00	2.23	4.24	5.54	5.83	4.08	4.07	1.90	47.36
1980	0.88	0.77	5.96	6.72	1.71	3.50	1.82	1.82	3.32	3.19	2.68	1.18	33.55
1981	0.68	8.42	0.86	2.93	2.07	5.51	4.09	1.02	2.10	4.03	1.46	1.95	35.12
1982	3.37	1.93	2.13	2.96	3.53	9.23	1.81	1.00	2.59	0.59	3.00	1.35	33.49
1983	1.79	1.87	3.05	7.03	4.51	5.55	3.38	3.68	1.88	3.01	5.89	6.54	48.18
1984	1.09	4.83	3.63	4.58	4.89	5.15	6.42	3.60	0.62	2.78	4.76	2.34	44.69
1985	0.52	1.12	2.81	1.18	3.98	2.49	3.47	4.28	2.58	1.83	5.99	1.42	31.67
1986	2.18	2.49	2.65	4.25	3.93	4.71	5.78	3.31	1.78	2.00	6.13	3.99	43.20
1987	2.68	0.78	1.77	2.63	2.21	2.30	3.69	4.04	4.99	2.70	3.26	1.63	32.68
1988	1.39	3.09	1.09	1.28	4.27	0.99	4.71	7.67	2.62	2.30	3.67	1.14	34.22
1989	1.58	1.75	3.32	0.70	7.29	5.74	3.42	2.94	4.28	4.26	2.06	0.68	38.02
1990	2.37	2.37	1.51	2.57	5.01	2.48	5.07	5.45	1.98	9.60	2.68	5.73	46.82
1991	2.02	1.70	3.84	2.44	1.79	1.36	3.98	3.54	3.35	2.24	3.29	3.20	32.75
1992	2.01	1.40	4.33	2.10	3.47	2.90	9.65	2.47	4.16	1.51	4.74	2.35	41.09
1993	1.81	1.28	4.30	7.55	2.43	4.01	1.84	4.62	4.71	3.08	4.00	2.66	42.29
1994	3.48	1.96	5.15	3.99	2.39	3.64	5.44	6.65	4.27	0.67	4.84	2.80	45.28
1995	4.65	1.31	0.85	2.41	2.29	2.56	2.87	0.93	0.01	7.90	4.04	1.46	31.28
1996	7.29	1.84	2.95	5.47	2.40	4.66	5.72	2.13	7.82	4.21	3.66	5.72	53.87
1997	1.17	1.13	2.93	1.45	2.63	2.53	1.54	5.90	3.14	0.65	5.09	1.90	30.06
1998	4.57	5.96	2.88	5.83	6.21	5.36	1.19	1.94	1.53	2.63	1.15	0.89	40.14
1999	4.91	1.96	3.46	2.44	2.45	2.94	3.66	3.86	12.60	1.95	2.89	2.36	45.48
2000	1.93	2.45	3.61	5.18	4.55	5.02	6.29	2.30	3.29	2.37	2.24	2.68	41.91
2001	1.14	1.23	4.17	1.38	3.22	4.84	2.57	5.38	4.72	2.09	2.74	1.58	35.06
2002	1.66	1.26	4.60	2.58	6.38	4.27	2.47	1.20	4.64	7.27	3.29	3.36	42.98
2003	1.91	3.10	3.12	2.93	4.30	5.55	5.63	5.40	8.37	4.07	4.40	4.42	53.20
2004	2.57	1.72	2.46	3.40	6.05	3.29	7.99	3.07	10.61	2.74	3.54	4.16	51.60
POR= 60 YRS	2.71	2.61	3.40	3.44	3.85	3.90	4.03	3.45	3.79	3.12	3.66	3.02	40.98

WBAN : 14778

AVERAGE TEMPERATURE (°F) 2004 WILLIAMSPORT, PA (IPT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1975	30.6	31.2	37.2	43.2	61.5	66.9	72.1	70.9	59.5	54.4	47.2	31.8	50.5
1976	22.7	35.4	42.1	52.9	58.3	71.6	70.5	70.2	62.3	49.4	36.3	26.1	49.8
1977	14.9	28.9	44.7	53.2	63.8	67.0	73.8	72.1	67.2	50.4	45.3	28.4	50.8
1978	22.8	20.5	34.5	48.3	60.7	68.4	72.1	74.8	65.0	52.5	43.7	32.5	49.7
1979	26.7	19.7	42.3	48.3	60.9	67.0	72.6	71.0	62.8	50.8	44.8	35.0	50.2
1980	28.0	25.7	36.9	51.3	61.4	65.7	73.8	75.4	66.8	49.6	37.1	25.0	49.7
1981	20.3	33.2	36.5	51.9	62.5	70.8	74.4	72.4	64.5	51.3	42.2	30.2	50.9
1982	19.3	28.4	35.7	46.1	62.1	64.5	71.1	66.6	63.1	52.0	43.8	36.9	49.1
1983	29.3	31.5	41.0	47.9	56.3	66.3	72.2	71.1	62.0	49.9	40.1	26.7	49.5
1984	21.0	34.7	30.4	47.5	55.9	68.7	70.6	72.2	60.6	56.7	40.3	35.7	49.5
1985	23.4	29.9	40.1	53.3	61.0	64.4	71.0	70.1	65.3	52.9	45.1	27.9	50.4
1986	27.3	27.6	40.7	51.1	63.7	67.5	72.6	68.3	62.9	52.3	37.4	33.4	50.4
1987	25.3	27.2	40.5	52.2	61.2	70.6	75.5	69.9	63.0	47.5	41.2	33.7	50.7
1988	22.5	28.5	39.9	48.2	61.1	67.8	77.4	74.4	61.3	47.7	42.5	30.5	50.2
1989	31.3	28.9	37.8	47.7	57.9	69.2	72.9	70.8	63.7	53.6	39.9	19.8	49.5
1990	35.5	34.3	41.3	51.6	57.6	69.1	72.6	71.4	62.4	55.7	44.0	35.3	52.6
1991	28.2	33.8	41.7	52.1	67.1	71.6	75.2	74.0	62.6	54.3	42.0	34.0	53.1
1992	30.6	32.2	37.3	48.7	58.7	66.8	71.4	69.5	63.7	49.3	43.1	33.0	50.4
1993	32.3	25.3	35.2	50.4	62.1	69.2	76.6	73.3	62.7	50.0	40.6	30.6	50.7
1994	18.6	23.9	35.5	53.3	57.3	71.4	75.0	68.8	62.9	51.0	45.6	35.1	49.9
1995	32.2	25.6	42.1	47.4	59.2	70.1	75.9	76.0	62.2	54.9	35.7	25.2	50.5
1996	22.9	28.1	32.9	48.6	56.0	70.0	70.3	70.8	63.5	51.3	36.2	34.8	48.8
1997	25.5	33.2	38.2	47.2	54.5	67.8	71.9	68.7	62.3	51.5	37.3	32.6	49.2
1998	34.8	37.0	41.5	50.7	64.2	67.6	71.2	72.0	66.1	52.5	42.3	35.8	53.0
1999	26.5	32.4	36.5	49.3	61.5	69.5	76.3	70.0	64.5	49.7	45.2	33.6	51.3
2000	26.1	32.0	44.3	49.4	61.9	69.1	69.3	69.9	61.7	52.8	40.0	24.0	50.0
2001	27.5	32.1	35.2	50.1	61.1	70.0	69.9	74.2	61.7	53.0	46.1	36.5	51.5
2002	33.7	35.6	39.5	51.7	57.1	69.8	74.6	74.3	66.8	50.8	40.0	28.3	51.9
2003	22.6	25.5	37.0	49.1	57.8	66.0	71.6	72.7	63.9	49.8	45.1	31.8	49.4
2004	20.7	27.6	40.3	50.6	65.2	66.7	71.0	70.2	66.0	52.1	43.6	31.6	50.5
POR= 60 YRS	26.5	29.2	38.2	49.5	59.7	68.2	71.6	71.2	63.7	52.4	41.6	30.9	50.2

HEATING DEGREE DAYS (base 65°F) 2004 WILLIAMSPORT, PA (IPT)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1975-76	1	9	168	324	529	1023	1305	850	704	393	217	19	5542
1976-77	0	12	121	478	855	1201	1547	1008	624	366	119	38	6369
1977-78	4	15	46	444	588	1126	1300	1239	938	495	190	28	6413
1978-79	9	0	76	381	633	998	1179	1264	696	497	167	40	5940
1979-80	15	19	131	438	601	919	1141	1134	863	405	139	77	5882
1980-81	0	0	65	472	830	1232	1378	886	877	391	130	7	6268
1981-82	0	0	97	416	677	1070	1408	1020	903	558	123	57	6329
1982-83	15	45	108	393	632	865	1101	934	736	511	271	50	5661
1983-84	14	8	159	461	741	1182	1360	873	1069	517	288	30	6702
1984-85	6	6	171	257	733	901	1282	978	765	377	151	59	5686
1985-86	4	6	108	369	590	1142	1162	1043	749	412	117	41	5743
1986-87	9	41	108	403	821	969	1225	1051	754	379	179	10	5949
1987-88	2	22	93	534	707	963	1306	1054	774	497	162	60	6174
1988-89	5	6	133	530	667	1063	1038	1005	835	515	244	18	6059
1989-90	3	16	109	344	746	1396	908	853	730	425	226	31	5787
1990-91	6	9	133	305	623	913	1136	870	714	394	104	7	5214
1991-92	0	0	143	342	684	953	1060	945	854	482	201	30	5694
1992-93	2	6	114	478	649	988	1006	1106	915	434	124	33	5855
1993-94	0	4	145	458	726	1059	1434	1144	906	360	255	29	6520
1994-95	0	19	90	427	576	921	1009	1096	701	520	192	9	5560
1995-96	0	0	131	316	872	1226	1297	1063	985	487	310	10	6697
1996-97	2	2	113	418	857	929	1218	886	823	527	323	44	6142
1997-98	4	11	108	424	823	1000	929	778	730	422	93	72	5394
1998-99	1	8	55	379	674	897	1186	907	875	462	122	25	5591
1999-00	1	8	87	467	587	970	1196	952	634	459	156	32	5549
2000-01	6	16	171	369	745	1263	1157	914	918	447	147	28	6181
2001-02	10	1	122	370	562	875	962	817	783	428	269	25	5224
2002-03	2	4	41	451	741	1130	1307	1101	863	470	226	66	6402
2003-04	2	5	65	466	591	1024	1366	1079	759	430	91	50	5928
2004-	0	15	34	393	637	1031							

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COOLING DEGREE DAYS (base 65°F) 2004 WILLIAMSPORT, PA (IPT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1975	0	0	0	0	54	108	231	197	10	4	0	0	604
1976	0	0	0	35	20	223	173	177	47	0	0	0	675
1977	0	0	0	18	91	106	282	241	119	0	5	0	862
1978	0	0	0	0	63	134	237	310	83	0	0	0	827
1979	0	0	0	3	48	105	262	212	73	4	0	0	707
1980	0	0	0	0	34	104	279	333	128	0	0	0	878
1981	0	0	0	5	60	186	301	236	90	0	0	0	878
1982	0	0	0	0	42	48	213	103	56	2	5	0	469
1983	0	0	0	3	8	99	242	205	76	0	0	0	633
1984	0	0	0	0	9	147	186	236	44	7	0	0	629
1985	0	0	2	30	36	48	194	170	121	1	0	0	602
1986	0	0	1	1	83	123	250	151	53	15	0	0	677
1987	0	0	0	2	67	185	332	181	39	0	0	0	806
1988	0	0	0	0	48	151	398	306	28	2	0	0	933
1989	0	0	0	2	34	150	253	199	77	1	0	0	716
1990	0	0	1	30	4	159	248	216	67	26	0	0	751
1991	0	0	0	12	176	211	322	288	81	18	0	0	1108
1992	0	0	0	1	16	91	207	149	82	0	0	0	546
1993	0	0	0	4	39	165	365	267	83	0	0	0	923
1994	0	0	0	16	24	229	319	144	34	0	0	0	766
1995	0	0	0	0	20	169	345	347	53	11	0	0	945
1996	0	0	0	1	38	170	173	190	76	0	0	0	648
1997	0	0	0	0	6	134	225	131	34	11	0	0	541
1998	0	0	8	0	76	156	203	230	94	0	0	0	767
1999	0	0	0	0	21	165	360	169	79	0	0	0	794
2000	0	0	0	0	70	163	147	175	78	1	0	0	634
2001	0	0	0	5	35	181	166	291	31	5	0	0	714
2002	0	0	0	37	33	176	307	299	101	19	0	0	972
2003	0	0	0	0	7	102	213	252	38	0	0	0	612
2004	0	0	0	6	104	109	194	182	72	0	0	0	667

SNOWFALL (inches) 2004 WILLIAMSPORT, PA (IPT)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1975-76	0.0	0.0	0.0	0.0	0.2	4.6	11.4	5.2	7.5	T	0.0	0.0	28.9
1976-77	0.0	0.0	0.0	T	3.8	6.0	16.0	7.3	8.5	0.3	0.2	0.0	42.1
1977-78	0.0	0.0	0.0	1.0	4.6	17.6	38.1	14.3	6.8	1.2	0.0	0.0	83.6
1978-79	0.0	0.0	0.0	T	3.9	4.8	10.5	17.7	T	0.4	0.0	0.0	37.3
1979-80	0.0	0.0	0.0	T	T	4.8	1.9	5.2	8.6	T	0.0	0.0	20.5
1980-81	0.0	0.0	0.0	T	12.0	6.8	10.8	5.5	6.5	T	0.0	0.0	41.6
1981-82	0.0	0.0	0.0	T	T	8.1	14.3	10.4	7.9	13.8	0.0	0.0	54.5
1982-83	0.0	0.0	0.0	T	T	1.4	6.3	7.6	0.5	1.8	0.0	0.0	17.6
1983-84	0.0	0.0	0.0	0.0	T	5.3	11.7	1.6	22.1	T	0.0	0.0	40.7
1984-85	0.0	0.0	0.0	0.0	T	8.9	8.7	6.4	0.6	0.4	0.0	0.0	25.0
1985-86	0.0	0.0	0.0	0.0	T	6.5	10.2	13.6	0.9	T	0.0	0.0	31.2
1986-87	0.0	0.0	0.0	0.0	7.7	T	40.1	5.3	0.4	T	0.0	0.0	53.5
1987-88	0.0	0.0	0.0	T	9.4	6.0	10.1	9.7	1.6	T	0.0	0.0	36.8
1988-89	0.0	0.0	0.0	T	T	0.7	2.3	1.5	2.5	T	0.0	0.0	7.0
1989-90	0.0	T	0.0	T	2.8	8.3	9.5	3.2	6.8	0.7	0.0	0.0	31.3
1990-91	0.0	0.0	0.0	0.0	T	9.8	5.2	4.1	8.5	0.3	0.0	T	27.9
1991-92	0.0	T	0.0	0.0	T	0.8	4.3	2.8	10.5	1.6	0.0	0.0	20.0
1992-93	0.0	0.0	0.0	T	T	9.2	2.2	21.0	22.6	0.8	0.0	0.0	55.8
1993-94	0.0	0.0	0.0	0.8	0.1	4.1	34.5	19.9	21.8	0.0	0.0	T	81.2
1994-95	T	T	0.0	0.0	1.0	0.1	0.7	8.0	2.8	0.2	0.0	T	12.8
1995-96	0.0	0.0	0.0	0.0	13.8	25.0	30.9	3.8	8.6	3.8			
1996-97						4.4							
1997-98						13.9	6.5	4.3	3.4	0.0	0.0	0.0	
1998-99	0.0	0.0	0.0	0.0	0.0	2.7	12.5	6.3	15.6	T	T	0.0	37.1
1999-00	0.0	0.0	0.0	0.0	0.1	0.6	13.5	7.0	T	1.9	0.0	0.0	23.1
2000-01	0.0	0.0	0.0	T	1.9	10.7	8.1	5.9	11.2	T	0.0	0.0	37.8
2001-02	0.0	0.0	0.0	T	0.0	2.2	15.5	T	1.7	T	T	0.0	19.4
2002-03	0.0	0.0	0.0	1.7	2.5	17.6	12.0	19.3	7.0	3.8	0.0	0.0	63.9
2003-04	0.0	0.0	0.0	0.0	0.1	13.7	14.8	12.2	14.7	T	0.0	0.0	55.5
2004-	0.0	0.0	0.0	0.0	T	0.5							
POR= 58 YRS	T	T	0.0	0.1	2.8	8.4	11.0	9.6	8.1	1.2	T	T	41.2

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REFERENCE NOTES :

<p>PAGE 1: THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).</p> <p>PAGE 2 AND 3: H/C INDICATES HEATING AND COOLING DEGREE DAYS. RH INDICATES RELATIVE HUMIDITY W/O INDICATES WEATHER AND OBSTRUCTIONS S INDICATES SUNSHINE. PR INDICATES PRESSURE. CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).</p> <p>GENERAL: T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE. + INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES. BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA. NORMALS ARE 30-YEAR AVERAGES (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
WILLIAMSPORT,
PENNSYLVANIA (IPT)

The climate of the Lycoming valley is favorably influenced by the lower elevation of the area compared to the surrounding terrain. Since the prevailing winds reach the area from the southwest to the north, there is a slight moderating effect on winter extremes of cold. Radiation cooling on clear nights is somewhat more frequent than in adjacent areas. Deep valley fogs occasionally persist until nearly midday. Cold air drainage from the surrounding hills is experienced during several nights but the cool temperatures are often modified by the proximity of the river and adjacent damp areas. The winters are milder than those experienced to the west and cold spells are frequently interrupted by incursions of warmer coastal weather. In summer the air frequently becomes trapped in the valley and higher temperatures and humidities result, generally benefitting the local agriculture.

The long irregular range south of the river forms an effective barrier to free air movement. Moderate or strong south to southwest winds are deflected to southeast or south winds in crossing the range and the air becomes quite turbulent with distinct wave effects. Banner clouds with one to three rolls are frequently observed with low overcasts.

An average growing season of 168 days extends from April 29 to October 14. Snowfall in the valley is generally uniform but varies considerably with the rise in terrain, particularly to the north and south. Snow depth on the ridge 2 miles south of the observation point is frequently double the amount at the station.

