

2004

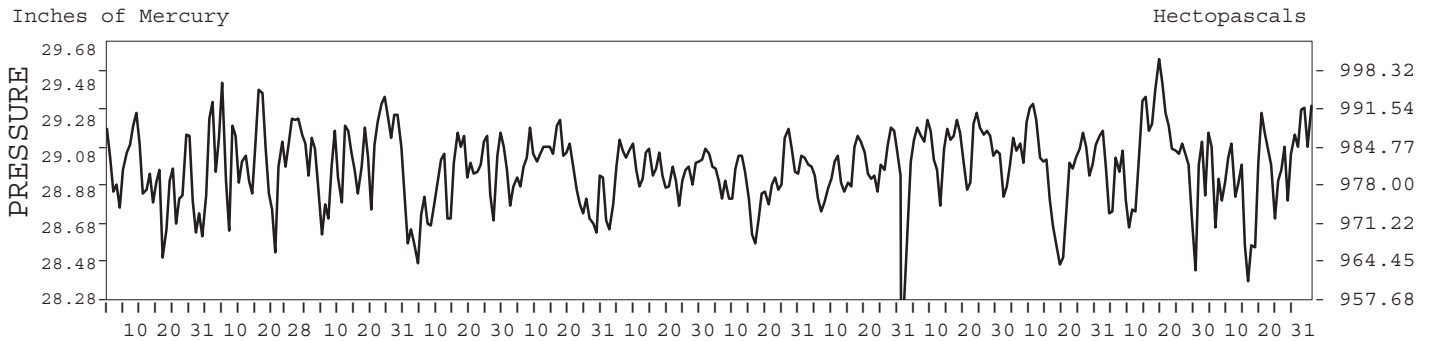
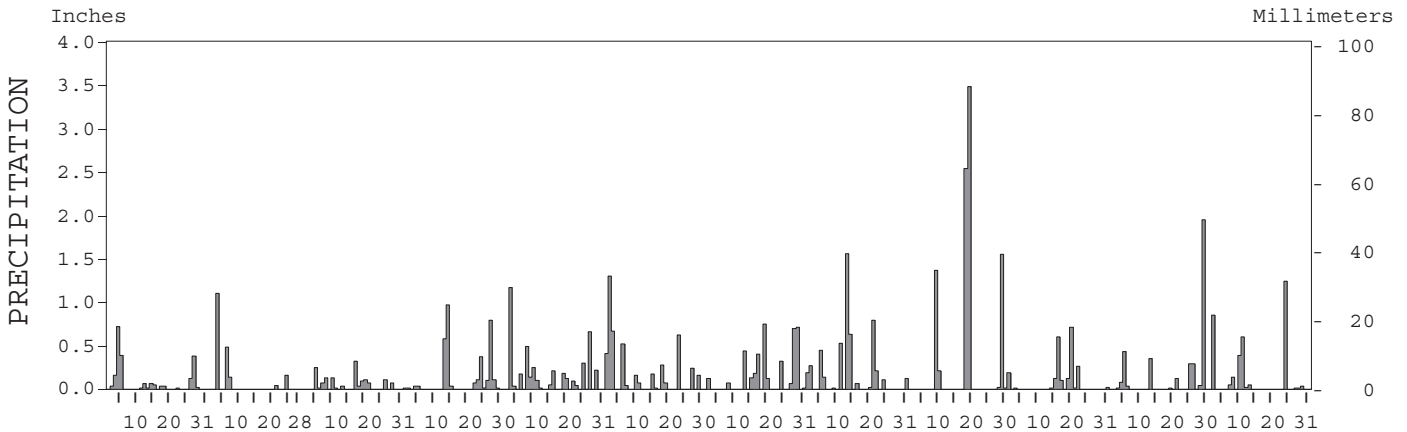
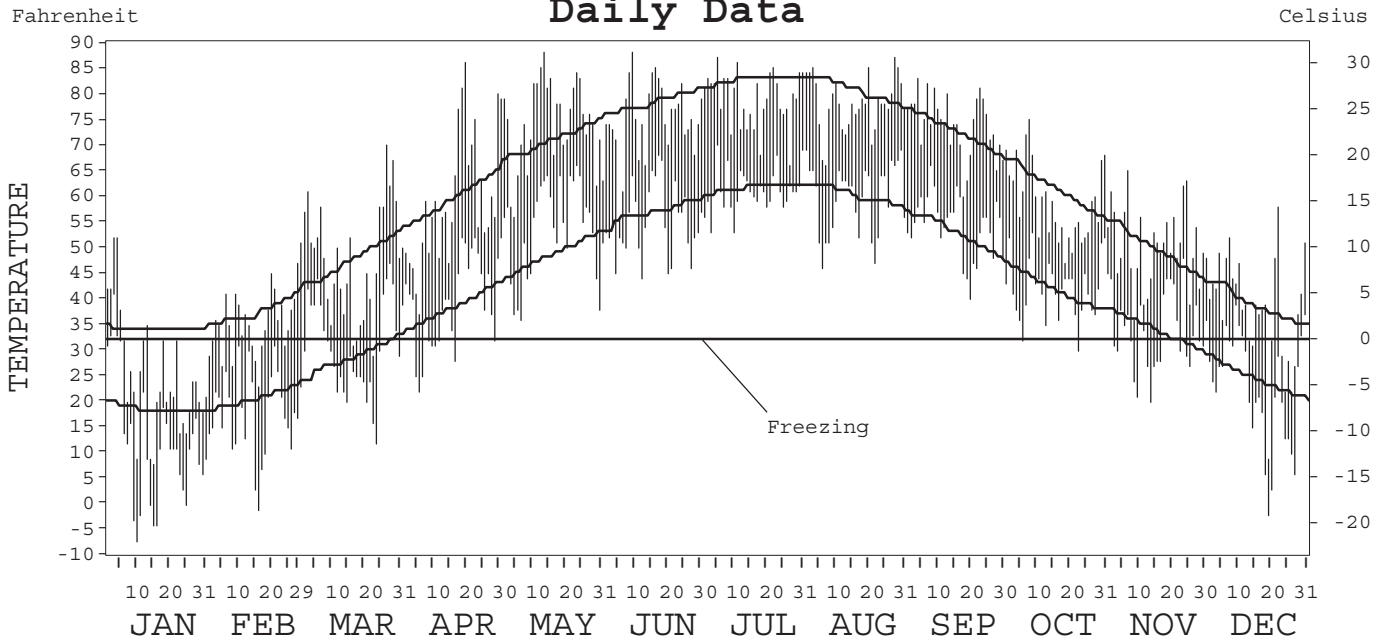
LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-4470

WILKES-BARRE/SCRANTON PENNSYLVANIA (AVP)

Daily Data



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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
 NATIONAL ENVIRONMENTAL AND INFORMATION SERVICE
 NATIONAL CLIMATIC DATA CENTER
 ASHEVILLE, NORTH CAROLINA
 DIRECTOR NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2004

WILKES-BARRE/SCRANTON, PA (AVP)

LATITUDE: 41° 20' 20" N LONGITUDE: 75° 43' 36" W ELEVATION (FT): GRND: 955 BARO: 958 TIME ZONE: EASTERN (UTC + 5) WBAN: 14777

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	25.3	35.7	47.9	59.2	74.1	75.1	79.0	78.0	73.9	58.8	50.5	38.4	58.0	
	HIGHEST DAILY MAXIMUM	52	51	70	86	88	88	87	87	83	75	65	58	88	
	DATE OF OCCURRENCE	04+	29	26	19	13	09	05	28	04	08	07	23	JUN 09	
	MEAN DAILY MINIMUM	12.1	17.9	30.7	39.3	53.5	55.0	61.0	59.6	54.2	41.9	33.9	22.9	40.2	
	LOWEST DAILY MINIMUM	-7	-1	12	22	36	44	53	46	40	30	20	-2	-7	
	DATE OF OCCURRENCE	10	16	23	05	06	12	10+	06	20	23	14	20	JAN 10	
	AVERAGE DRY BULB	18.7	26.8	39.3	49.3	63.8	65.1	70.0	68.8	64.1	50.4	42.2	30.7	49.1	
	MEAN WET BULB	17.0		35.1	43.0	58.2	59.6	64.3		59.6	46.7	38.5	28.2		
	MEAN DEW POINT	10.2		27.8	34.9	53.6	55.6	61.1		56.7	42.7	32.5	21.8		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	MAXIMUM ≤ 32°	25	9	3	0	0	0	0	0	0	0	0	9	46	
	MINIMUM ≤ 32°	28	29	19	9	0	0	0	0	0	2	15	24	126	
MINIMUM ≤ 0°	7	1	0	0	0	0	0	0	0	0	0	1	9		
H/C	HEATING DEGREE DAYS	1429	1103	787	472	119	72	1	26	63	445	677	1058	6252	
	COOLING DEGREE DAYS	0	0	0	7	91	82	164	153	41	0	0	0	538	
RH	MEAN (PERCENT)	69	68	66	62	72	74	76	79	80	77	70	69	72	
	HOUR 01 LST	71	74	71	72	83	86	86	91	90	85	77	74	80	
	HOUR 07 LST	74	78	76	72	84	83	84	89	92	88	77	74	81	
	HOUR 13 LST	64	61	55	50	58	58	63	62	62	62	60	60	60	
	HOUR 19 LST	66	61	60	57	64	67	72	75	80	75	68	67	68	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	4	3	5	2	1	3	3	4	2	2	1	1	31	
	THUNDERSTORMS	0	0	0	1	8	5	4	2	1	0	0	0	22	
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.)	28.94	29.10	29.08	28.92	28.98	29.00	28.95		29.12	29.01	29.10	28.99		
	MEAN SEA-LEVEL PRESS. (IN.)	29.99	30.15	30.11	29.94	29.99	30.00	29.94			30.03	30.13	30.03		
WINDS	RESULTANT SPEED (MPH)	5.5	3.1	2.5	2.8	1.7	1.3	0.9			1.0	2.1	3.0		
	RES. DIR. (TENS OF DEGS.)	31	31	30	32	26	26	27			33	30	30		
	MEAN SPEED (MPH)	8.5	6.7	6.9	7.5	6.6	5.4	5.3		5.0	5.5	6.7	7.6		
	PREVAIL. DIR. (TENS OF DEGS.)	34	25	25	34	25	24	24	36	11	24	34	24	24	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	30	31	32	32	35	25	21	26	23	31	32	36	36	
	DIR. (TENS OF DEGS.)	35	27	30	26	32	35	26	33	19	28	25	27	27	
	DATE OF OCCURRENCE	13	21	12	19	05	09	15	10	09	16	25	01	DEC 01	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	39	40	41	39	45	35	28	33	35	36	52	47	52	
DIR. (TENS OF DEGS.)	34	26	31	26	32	31	20	32	20	28	26	17	26		
DATE OF OCCURRENCE	13	21	12	19	05	09	31	10	09	16	25	23	NOV 25		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	2.08	1.92	1.44	3.22	4.64	4.31	4.20	4.90	9.38	1.96	3.60	3.39	45.04	
	GREATEST 24-HOUR (IN.)	1.00	1.10	0.35	1.13	1.20	1.39	0.87	2.19	5.93	0.83	1.99	1.24	5.93	
	DATE OF OCCURRENCE	04-05	03	16-17	12-13	02-03	31-01	18-19	12-13	17-18	18-19	27-28	23	SEP 17-18	
	NUMBER OF DAYS WITH:														
PRECIPITATION ≥ 0.01	15	5	15	14	18	13	14	13	8	10	11	11	147		
PRECIPITATION ≥ 0.10	5	4	6	7	13	9	11	10	6	6	6	5	88		
PRECIPITATION ≥ 1.00	0	1	0	0	1	1	0	1	4	0	1	1	10		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)														
	GREATEST 24-HOUR (IN.)														
	DATE OF OCCURRENCE														
	MAXIMUM SNOW DEPTH (IN.)														
DATE OF OCCURRENCE															
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0															

NORMALS, MEANS, AND EXTREMES

WILKES-BARRE/SCRANTON, PA (AVP)

LATITUDE: 41° 20' 20" N LONGITUDE: 75° 43' 36" W ELEVATION (FT): GRND: 955 BARO: 958 TIME ZONE: EASTERN (UTC + 5) WBAN: 14777

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	34.1	37.3	47.3	59.2	70.8	78.2	82.6	80.5	72.4	61.2	49.3	38.6	59.3
	MEAN DAILY MAXIMUM	55	33.2	35.9	45.2	58.3	69.5	77.8	82.2	80.3	72.3	61.5	48.7	37.1	58.5
	HIGHEST DAILY MAXIMUM	49	67	71	85	92	93	97	101	98	95	84	80	69	101
	YEAR OF OCCURRENCE		1967	1985	1998	1976	1962	1964	1988	2001	1983	1959	1982	1998	JUL 1988
	MEAN OF EXTREME MAXS.	55	54.2	55.0	67.9	80.6	85.9	90.3	92.2	89.8	86.3	78.2	68.1	57.2	75.5
	NORMAL DAILY MINIMUM	30	18.5	20.4	28.4	38.1	48.4	56.7	61.5	60.1	52.6	41.7	33.7	24.2	40.4
	MEAN DAILY MINIMUM	55	18.6	20.2	28.0	38.2	48.0	56.8	61.4	59.9	52.3	41.8	33.4	23.4	40.2
	LOWEST DAILY MINIMUM	49	-21	-16	-4	14	27	34	43	38	29	19	9	-9	-21
	YEAR OF OCCURRENCE		1994	1979	1967	1982	1974	1972	1979	1982	2000	1972	2000	1989	JAN 1994
	MEAN OF EXTREME MINS.	55	-4	1.3	9.7	23.4	34.2	43.1	49.3	46.8	37.0	27.7	18.1	4.8	24.6
	NORMAL DRY BULB	30	26.3	28.9	37.9	48.7	59.6	67.5	72.1	70.3	62.5	51.5	41.5	31.4	49.9
	MEAN DRY BULB	55	25.9	28.0	36.4	48.2	58.7	67.3	71.8	70.1	62.3	51.6	41.1	30.3	49.3
	MEAN WET BULB	18	23.9	26.2	32.9	42.6	52.4	61.0	65.2	63.9	57.2	46.8	37.6	26.9	44.7
	MEAN DEW POINT	18	17.8	19.0	25.1	34.6	43.5	56.4	61.1	60.0	53.7	41.8	31.8	21.1	38.8
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	0.1	0.3	1.0	3.6	2.0	0.4	0.0	0.0	0.0	7.4	
MAXIMUM ≤ 32°	30	14.6	10.9	3.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.4	8.7	39.1	
MINIMUM ≤ 32°	30	27.7	24.0	20.5	8.4	0.5	0.0	0.0	0.0	0.1	4.4	13.7	24.6	123.9	
MINIMUM ≤ 0°	30	1.8	1.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.5	
H/C	NORMAL HEATING DEG. DAYS	30	1214	1027	857	510	219	53	9	18	138	431	711	1047	6234
	NORMAL COOLING DEG. DAYS	30	0	0	1	5	36	114	220	174	57	4	0	0	611
RH	NORMAL (PERCENT)	30	71	67	63	61	65	70	71	73	75	72	71	72	69
	HOUR 01 LST	30	73	70	68	66	74	81	82	84	84	80	75	75	76
	HOUR 07 LST	30	76	75	74	72	77	83	84	86	88	84	79	77	80
	HOUR 13 LST	30	66	61	56	52	54	57	57	59	62	59	64	66	59
	HOUR 19 LST	30	68	63	58	54	56	62	63	66	71	67	68	69	64
S	PERCENT POSSIBLE SUNSHINE	41	41	47	50	53	57	61	62	61	55	52	36	34	51
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	49	1.9	2.1	2.1	1.4	1.1	1.1	1.6	1.8	2.7	2.0	1.8	2.2	21.8
	THUNDERSTORMS	49	0.1	0.2	0.8	2.0	3.5	5.4	6.2	4.6	2.3	1.0	0.4	0.2	26.7
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	41	6.0	5.8	5.7	5.4	5.4	5.0	4.8	4.8	4.8	4.8	5.9	6.0	5.4
	MIDNIGHT-MIDNIGHT (OKTAS)	32	5.7	5.4	5.4	5.0	5.0	4.6	4.5	4.4	4.6	4.6	5.7	5.9	5.1
	MEAN NO. DAYS WITH:														
CLEAR	42	4.3	4.5	5.6	6.2	6.0	6.8	6.1	7.1	7.0	8.2	3.8	3.7	69.3	
PARTLY CLOUDY	42	7.1	7.0	7.7	7.5	9.5	10.9	12.5	11.3	9.4	8.2	6.7	6.5	104.3	
CLOUDY	42	19.6	16.7	17.7	16.3	15.5	12.3	11.7	11.8	13.0	13.9	18.7	19.9	187.1	
PR	MEAN STATION PRESSURE (IN)	31	29.00	29.00	29.00	29.00	29.00	28.99	29.00	29.10	29.09	29.10	29.08	29.10	29.04
	MEAN SEA-LEVEL PRES. (IN)	19	30.06	30.06	30.04	29.97	29.98	29.97	30.00	30.04	30.08	30.09	30.08	30.09	30.04
WINDS	MEAN SPEED (MPH)	43	8.8	8.9	9.3	9.2	8.1	7.5	7.1	6.8	7.1	7.5	8.3	8.4	8.1
	PREVAIL. DIR (TENS OF DEGS)	29	23	23	32	34	23	23	24	23	22	23	23	23	23
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	8	36	38	39	34	45	36	39	46	45	36	40	43	46
	DIR. (TENS OF DEGS)		23	26	28	26	31	29	36	25	32	28	31	26	25
	YEAR OF OCCURRENCE		1999	1997	2000	2000	1998	2000	2001	1997	1998	2003	2003	2000	AUG 1997
	MAXIMUM 5-SECOND:														
SPEED (MPH)	8	49	47	53	45	55	45	47	55	51	48	52	54	55	
DIR. (TENS OF DEGS)		13	27	25	25	31	31	01	23	35	28	26	26	31	
YEAR OF OCCURRENCE		1999	2002	1997	2000	1998	2000	2001	1997	2001	2003	2004	2000	MAY 1998	
PRECIPITATION	NORMAL (IN)	30	2.46	2.08	2.69	3.28	3.69	3.97	3.74	3.10	3.86	3.02	3.12	2.55	37.56
	MAXIMUM MONTHLY (IN)	49	6.48	8.06	4.83	9.56	8.02	7.54	7.25	6.78	9.76	8.12	7.69	6.58	9.76
	YEAR OF OCCURRENCE		1979	1981	1977	1983	1989	2003	1986	1994	1999	1976	1972	1983	SEP 1999
	MINIMUM MONTHLY (IN)	49	0.39	0.30	0.49	0.96	0.77	0.27	1.04	0.95	0.82	0.03	0.80	0.35	0.03
	YEAR OF OCCURRENCE		1980	1968	1981	1997	1959	1966	1993	1995	1964	1963	1976	1958	OCT 1963
	MAXIMUM IN 24 HOURS (IN)	49	2.07	3.11	3.02	3.80	2.58	3.61	2.83	3.69	6.52	4.28	3.60	2.86	6.52
	YEAR OF OCCURRENCE		1996	1981	1986	1983	1972	1973	2000	2003	1985	1995	1996	1983	SEP 1985
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	12.5	10.8	12.4	12.4	13.0	12.7	11.0	10.9	10.3	10.1	11.6	12.2	139.9	
PRECIPITATION ≥ 1.00	30	0.3	0.3	0.2	0.6	0.8	0.6	0.8	0.6	1.1	0.7	0.6	0.3	6.9	
SNOWFALL	NORMAL (IN)	30	13.5	10.2	8.7	2.8	0.1	0.0	0.0	0.0	0.1	4.3	7.3	47.0	
	MAXIMUM MONTHLY (IN)	41	42.3	22.0	32.0	26.7	2.4	0.0	T	T	T	4.4	22.5	33.9	42.3
	YEAR OF OCCURRENCE		1994	1964	1993	1983	1977		1995	1993	1993	1962	1971	1969	JAN 1994
	MAXIMUM IN 24 HOURS (IN)	41	20.6	13.3	20.4	12.2	2.4	0.0	T	T	T	4.4	20.5	12.4	20.6
	YEAR OF OCCURRENCE		1996	1961	1993	1983	1977		1995	1993	1993	1962	1971	1969	JAN 1996
	MAXIMUM SNOW DEPTH (IN)	46	27	25	21	14	0	0	0	0	0	2	17	22	27
	YEAR OF OCCURRENCE		1994	1961	1993	1983						1962	1971	1969	JAN 1994
NORMAL NO. DAYS WITH:															
SNOWFALL ≥ 1.0	30	3.6	2.9	2.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.2	13.0	

PRECIPITATION (inches) 2004 WILKES-BARRE/SCRANTON PA (AVP)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1975	2.78	3.26	2.52	1.17	4.01	5.64	3.85	2.78	6.10	3.29	3.00	1.84	40.24
1976	3.25	2.14	2.18	2.27	3.24	5.43	3.20	2.57	3.81	8.12	0.80	1.50	38.51
1977	0.88	1.82	4.83	3.98	1.72	3.16	3.44	4.23	5.97	5.27	3.98	3.44	42.72
1978	5.33	0.93	2.30	1.67	4.30	2.48	2.16	3.28	3.06	3.35	1.02	3.09	32.97
1979	6.48	2.44	1.52	3.69	5.16	2.54	2.97	2.05	5.84	3.68	3.17	1.70	41.24
1980	0.39	0.69	3.72	2.35	2.37	4.36	3.76	1.23	1.43	2.17	2.83	1.24	26.54
1981	0.63	8.06	0.49	3.54	3.00	3.45	4.27	1.75	2.74	3.50	1.84	2.13	35.40
1982	2.71	2.28	2.55	3.48	3.52	7.22	3.32	3.42	1.10	0.84	3.44	1.52	35.40
1983	1.17	1.46	3.28	9.56	3.28	4.81	2.76	1.77	2.12	2.73	3.71	6.58	43.23
1984	1.11	2.92	2.42	4.09	6.70	4.75	5.12	2.81	1.36	2.30	2.63	2.36	38.57
1985	0.61	1.58	2.24	2.00	6.10	3.00	6.09	2.62	7.83	1.92	4.47	1.96	40.42
1986	2.59	2.58	4.25	2.98	2.24	6.77	7.25	3.94	3.07	2.61	3.94	2.04	44.26
1987	2.60	0.68	1.18	4.38	2.22	4.35	5.80	4.16	8.15	2.77	2.24	0.99	39.52
1988	1.41	2.32	1.97	2.65	4.24	0.82	6.26	5.03	1.89	1.93	3.33	1.08	32.93
1989	1.02	1.73	2.23	0.97	8.02	6.10	2.76	2.92	3.92	4.73	3.57	0.96	38.93
1990	3.81	2.70	1.88	2.48	5.27	4.78	4.36	5.69	3.16	4.33	3.33	4.30	46.09
1991	1.54	1.35	2.91	2.69	2.84	1.72	2.45	3.28	2.55	2.41	3.81	2.73	30.28
1992	1.23	1.41	2.65	1.67	4.21	1.45	3.83	2.13	2.65	1.91	3.47	2.91	29.52
1993	1.97	1.24	4.02	7.47	1.38	1.85	1.04	3.82	6.55	3.99	3.32	3.09	39.74
1994	3.29	1.00	3.80	4.90	2.68	3.54	3.22	6.78	5.12	0.76	4.54	2.29	41.92
1995	2.73	1.45	1.34	2.15	1.40	1.45	3.16	0.95	2.31	7.15	3.65	1.22	28.96
1996	6.40	1.46	2.55	5.26	4.03	3.90	6.01	1.24	3.92	4.40	4.45	5.37	48.99
1997	1.57	1.13	3.20	0.96	2.46	2.96	1.33	5.30	1.91	1.17	3.48	2.25	27.72
1998	2.96	2.91	2.54	5.41	4.38	4.16	2.43	2.69	2.46	2.99	0.95	0.86	34.74
1999	4.85	1.41	2.73	2.16	2.62	2.89	1.63	2.12	9.76	1.52	2.31	1.24	35.24
2000	2.08	2.40	2.84	2.90	2.86	6.09	6.21	1.93	3.07	1.46	1.44	2.77	36.05
2001	1.13	1.14	2.54	1.97	2.92	3.04	3.67	3.02	3.95	1.01	1.89	1.11	27.39
2002	1.71	1.02	2.89	3.30	4.39	3.95	2.11	3.84	5.33	5.49	2.65	3.47	40.15
2003	1.55	1.50	1.86	2.17	3.79	7.54	3.76	6.17	8.35	5.32	3.47	3.97	49.45
2004	2.08	1.92	1.44	3.22	4.64	4.31	4.20	4.90	9.38	1.96	3.60	3.39	45.04
POR= 104 YRS	2.38	2.19	2.81	3.15	3.35	3.79	3.97	3.52	3.41	2.93	2.81	2.53	36.84

WBAN : 14777

AVERAGE TEMPERATURE (°F) 2004 WILKES-BARRE/SCRANTON PA (AVP)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1975	31.8	32.1	35.8	43.9	64.9	68.8	73.7	71.2	59.9	55.8	47.8	31.1	51.4
1976	22.1	35.0	41.0	51.3	56.7	70.4	69.2	69.1	60.9	48.0	37.0	22.9	48.6
1977	15.0	26.9	40.5	48.9	60.0	63.8	71.1	68.7	62.7	48.5	43.1	29.6	48.2
1978	24.4	19.2	33.1	46.0	58.7	65.2	69.4	71.0	60.5	50.7	40.5	29.1	47.3
1979	24.2	16.0	40.7	46.4	58.6	65.1	70.7	70.7	63.2	51.8	45.9	35.6	49.1
1980	27.8	24.2	35.9	51.0	61.8	65.3	73.2	75.2	66.1	49.8	37.6	25.7	49.5
1981	19.5	34.9	36.2	51.0	59.8	68.5	72.2	70.1	62.1	49.1	41.1	29.1	49.5
1982	18.7	27.8	36.0	46.3	61.2	64.3	71.0	66.2	62.4	52.3	44.3	36.7	48.9
1983	27.3	29.4	38.8	45.9	55.7	67.6	72.4	71.6	64.8	52.5	42.8	27.1	49.7
1984	23.0	35.9	30.9	48.3	57.5	69.3	71.6	72.6	61.7	58.0	40.8	37.3	50.6
1985	21.5	29.8	39.1	51.4	60.6	63.8	70.1	69.0	64.0	52.7	44.5	26.7	49.4
1986	27.2	26.1	39.8	49.3	62.7	66.2	71.0	67.4	61.6	51.2	37.3	32.8	49.4
1987	24.7	25.1	39.7	50.7	60.0	68.7	73.5	68.3	61.8	47.4	41.3	32.7	49.5
1988	22.0	27.4	38.1	46.6	60.1	65.5	75.8	72.9	60.4	46.3	43.3	29.8	49.0
1989	31.3	28.0	37.2	45.6	57.6	67.0	70.4	68.5	62.2	52.8	39.7	18.6	48.2
1990	35.3	33.3	40.6	50.2	56.1	67.6	71.7	69.5	61.6	55.3	44.2	36.0	51.8
1991	27.5	33.4	40.4	51.7	65.7	69.5	73.4	72.2	61.8	53.3	41.4	32.9	51.9
1992	28.6	30.3	34.4	47.4	58.7	66.3	71.1	68.4	62.8	49.0	42.2	32.8	49.3
1993	32.0	23.8	33.3	49.9	61.7	68.8	75.5	72.7	61.2	50.0	41.4	30.0	50.0
1994	18.8	24.4	35.4	52.2	56.6	69.9	73.8	67.3	60.9	50.9	47.4	36.6	49.5
1995	32.9	26.5	40.5	46.4	59.2	69.9	75.2	74.7	62.4	56.5	35.7	25.7	50.5
1996	24.1	27.6	33.2	47.4	55.9	68.2	68.9	69.6	62.5	50.8	36.4	34.5	48.3
1997	25.3	32.9	36.8	45.5	54.3	65.9	70.4	67.5	60.3	50.2	37.1	31.3	48.1
1998	34.1	35.3	41.1	49.5	63.3	65.7	69.8	70.4	64.1	51.6	41.8	35.9	51.9
1999	27.9	31.9	35.5	48.1	60.2	68.5	74.7	68.9	64.5	49.0	45.3	33.1	50.6
2000	24.7	30.5	42.8	47.8	59.9	66.8	67.2	67.7	60.0	51.6	38.3	23.0	48.4
2001	26.6	30.1	33.1	48.6	59.6	68.5	68.3	73.1	60.4	52.9	46.9	36.9	50.4
2002	33.4	34.8	39.8	50.9	55.7	68.3	73.5	72.8	65.0	49.5	39.7	29.0	51.0
2003	20.8	24.6	37.3	47.5	56.9	64.6	71.3	71.4	63.1	48.8	44.4	31.6	48.5
2004	18.7	26.8	39.3	49.3	63.8	65.1	70.0	68.8	64.1	50.4	42.2	30.7	49.1
POR= 104 YRS	26.7	27.7	36.9	48.0	59.2	67.4	72.1	70.0	63.0	52.1	41.2	30.4	49.6

HEATING DEGREE DAYS (base 65°F) 2004 WILKES-BARRE/SCRANTON PA (AVP)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1975-76	0	8	158	291	509	1043	1322	864	737	451	265	31	5679
1976-77	8	25	155	519	834	1297	1546	1058	756	487	206	90	6981
1977-78	14	37	119	505	653	1090	1252	1279	984	562	240	73	6808
1978-79	38	2	153	436	728	1103	1257	1370	747	552	221	66	6673
1979-80	34	31	120	420	568	900	1144	1175	895	414	137	94	5932
1980-81	1	0	82	466	813	1211	1407	835	886	416	195	19	6331
1981-82	2	5	132	485	706	1105	1426	1034	896	554	147	68	6560
1982-83	17	55	112	390	619	870	1158	992	805	569	292	41	5920
1983-84	7	11	119	392	659	1169	1297	837	1052	493	247	34	6317
1984-85	7	6	148	219	719	852	1342	981	799	421	162	78	5734
1985-86	4	11	127	376	610	1181	1163	1083	777	467	140	61	6000
1986-87	16	50	139	428	823	990	1243	1111	779	425	208	20	6232
1987-88	2	34	119	539	706	995	1326	1082	823	546	176	91	6439
1988-89	13	12	156	574	643	1083	1037	1031	853	575	251	39	6267
1989-90	6	31	133	377	750	1433	915	881	757	465	269	44	6061
1990-91	10	13	152	320	619	894	1153	877	757	402	113	23	5333
1991-92	0	0	160	370	699	989	1121	1001	942	521	209	40	6052
1992-93	4	9	132	488	676	993	1017	1148	975	447	136	39	6064
1993-94	0	4	174	460	703	1077	1428	1131	910	390	270	33	6580
1994-95	0	31	143	427	522	875	986	1072	755	552	189	15	5567
1995-96	0	0	123	264	872	1210	1260	1075	979	525	312	16	6636
1996-97	9	5	140	432	852	938	1222	893	866	577	327	60	6321
1997-98	7	23	150	466	828	1036	949	828	754	460	104	97	5702
1998-99	2	11	90	408	689	896	1143	919	910	500	159	32	5759
1999-00	4	18	104	491	586	982	1243	995	683	510	196	59	5871
2000-01	26	32	202	410	794	1289	1181	973	982	491	187	45	6612
2001-02	28	0	156	370	537	863	975	840	775	459	309	35	5347
2002-03	4	7	68	483	751	1110	1363	1126	852	520	247	88	6619
2003-04	2	10	80	496	611	1031	1429	1103	787	472	119	72	6212
2004-	1	26	63	445	677	1058							

WBAN : 14777

COOLING DEGREE DAYS (base 65°F) 2004 WILKES-BARRE/SCRANTON PA (AVP)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1975	0	0	0	0	91	146	278	207	13	14	0	0	749
1976	0	0	0	46	16	198	145	159	37	0	0	0	601
1977	0	0	2	13	57	62	208	162	59	0	2	0	565
1978	0	0	0	0	52	84	181	194	26	0	0	0	537
1979	0	0	0	2	32	78	218	214	75	15	0	0	634
1980	0	0	0	0	42	107	263	322	122	3	0	0	859
1981	0	0	0	4	42	131	231	172	55	0	0	0	635
1982	0	0	0	1	34	55	208	98	41	3	5	0	445
1983	0	0	0	4	12	125	243	224	118	9	0	0	735
1984	0	0	0	0	20	165	218	248	58	12	0	0	721
1985	0	0	0	20	32	47	169	142	104	0	0	0	514
1986	0	0	2	0	76	104	205	131	44	8	0	0	570
1987	0	0	0	3	62	138	273	141	30	0	0	0	647
1988	0	0	0	0	34	111	356	266	23	3	0	0	793
1989	0	0	0	0	31	109	179	148	57	4	0	0	528
1990	0	0	8	29	2	127	225	160	56	24	0	0	631
1991	0	0	0	12	142	164	264	230	69	14	0	0	895
1992	0	0	0	0	21	85	201	123	71	0	0	0	501
1993	0	0	0	5	41	158	334	249	66	0	0	0	853
1994	0	0	0	13	18	188	280	109	27	0	1	0	636
1995	0	0	0	0	16	167	323	308	54	6	0	0	874
1996	0	0	0	0	38	117	132	155	71	0	0	0	513
1997	0	0	0	0	4	97	178	105	16	11	0	0	411
1998	0	0	17	0	59	128	157	184	71	0	0	0	616
1999	0	0	0	0	19	145	312	146	95	0	0	0	717
2000	0	0	0	0	45	117	101	126	60	0	0	0	449
2001	0	0	0	6	25	156	137	258	24	2	0	0	608
2002	0	0	0	44	26	139	276	254	74	8	0	0	821
2003	0	0	0	0	2	84	209	214	31	0	0	0	540
2004	0	0	0	7	91	82	164	153	41	0	0	0	538

SNOWFALL (inches) 2004 WILKES-BARRE/SCRANTON PA (AVP)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1975-76	0.0	0.0	0.0	0.0	1.3	3.7	13.0	7.5	10.2	0.5	T	0.0	36.2
1976-77	0.0	0.0	0.0	0.0	6.0	6.7	15.7	13.0	11.2	1.4	2.4	0.0	56.4
1977-78	0.0	0.0	0.0	0.6	8.7	9.8	28.8	18.2	6.5	0.9	0.0	0.0	73.5
1978-79	0.0	0.0	0.0	T	4.1	7.9	12.7	14.3	1.1	4.4	0.0	0.0	44.5
1979-80	0.0	0.0	0.0	T	T	5.5	1.4	8.1	10.5	T	0.0	0.0	25.5
1980-81	0.0	0.0	0.0	T	8.6	8.0	11.1	7.0	5.8	T	0.0	0.0	40.5
1981-82	0.0	0.0	0.0	T	1.0	14.2	14.1	13.5	8.7	8.1	0.0	0.0	59.6
1982-83	0.0	0.0	0.0	0.0	0.5	7.4	8.4	12.3	3.8	26.7	0.0	0.0	59.1
1983-84	0.0	0.0	0.0	0.0	3.1	2.7	11.2	4.0	18.4	0.0	0.0	0.0	39.4
1984-85	0.0	0.0	0.0	0.0	3.0	9.2	10.8	9.1	1.4	1.8	0.0	0.0	35.3
1985-86	0.0	0.0	0.0	0.0	1.7	13.4	12.9	11.6	1.1	8.6	0.0	0.0	49.3
1986-87	0.0	0.0	0.0	0.0	8.6	1.4	29.6	6.4	0.9	0.6	0.0	0.0	47.5
1987-88	0.0	0.0	0.0	T	6.4	6.4	13.0	14.9	4.3	0.7	0.0	0.0	45.7
1988-89	0.0	0.0	0.0	T	T	1.1	2.1	3.0	1.1	T	0.0	0.0	7.3
1989-90	0.0	0.0	0.0	T	2.6	8.3	10.8	7.3	6.2	2.1	0.0	0.0	37.3
1990-91	0.0	0.0	T	T	0.4	8.4	6.6	7.6	7.2	1.1	0.0	0.0	31.3
1991-92	0.0	0.0	0.0	0.0	0.1	3.5	5.4	6.3	8.5	0.7	0.0	0.0	24.5
1992-93	0.0	0.0	T	T	0.5	10.0	3.8	12.1	32.0	1.9	0.0	0.0	60.3
1993-94	0.0	T	T	1.9	0.7	8.0	42.3	16.9	20.6	T	T	0.0	90.4
1994-95	0.0	0.0	0.0	0.0	1.3	0.4	7.6	9.7	5.2	0.8	0.0	0.0	25.0
1995-96	T	0.0	0.0	T	18.6	16.0	37.5	6.5	14.2				
1996-97													
1997-98													
1998-99													
1999-00													
2000-01													
2001-02													
2002-03													
2003-04													
2004-													
POR= 41 YRS	T	T	T	0.2	3.7	8.8	12.2	10.5	9.5	2.8	0.1	0.0	47.8

WBAN : 14777

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
WILKES-BARRE/SCRANTON
PENNSYLVANIA (AVP)

The Wilkes-Barre Scranton National Weather Service Office is located about midway between the two cities, at the southwest end of the crescent-shaped Lackawanna River Valley. The river flows through this valley and empties into the Susquehanna River and the Wyoming Valley a few miles west of the airport. The surrounding mountains protect both cities and the airport from high winds. They influence the temperature and precipitation during both summer and winter, causing wide departures in both within a few miles of the station. Because of the proximity of the mountains, the climate is relatively cool in summer with frequent shower and thunderstorm activity, usually of brief duration. The winter temperatures in the valley are not severe. The occurrence of sub-zero temperatures and severe snowstorms is infrequent. A high percentage of the winter precipitation occurs as rain.

Although severe snowstorms are infrequent, when they do occur they approach blizzard conditions. High winds cause huge drifts and normal routines are disrupted for several days.

While the incidence of tornadoes is very low, Wilkes-Barre has occasionally been hit with these storms which caused loss of life and great property damage.

The area has felt the effects of tropical storms. Considerable wind damage has occasionally occurred, but the most devastating damage has come from flooding caused by the large amounts of precipitation deposited by the storms. The worst natural disaster to hit the region was the result of the flooding caused by a hurricane.

STATION LOCATION

WILKES-BARRE/SCRANTON
PENNSYLVANIA

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE										AUTOMATIC OBSERVING EQUIPMENT * REMARKS
						SEA LEVEL GROUND TEMPERATURE	GROUND								HYGRO THERMOMETER	
							WIND INSTRUMENT	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET	WEIGHING RAIN GAGE	8 INCH RAIN GAGE			
*NOTE: <u>AIRPORT</u> Terminal Building Wilkes-Barre Scranton Airport	4/18/55	4/01/96	6mi. SW	41°20'	75°44'	940 g930	92 b21 h33	5 e30	4 e30	unk a60	NA c3	5 f5	3 f3	NA d5 i5	NA	a. Effective 7/1/57. b. Moved to field site 10/1/59. c. Installed on field site 10/1/59. d. Commissioned 1000' NE of thermometer site 10/5/59. e. Effective 10/29/59. f. Moved 140' NNW 7/2/63. g. Value for hygrothermometer site per survey of 10/7/63. h. Effective 7/31/79. i. Type change 11/7/84.
Wilkes-Barre Scranton Airport	04/01/96	Present	NA	41°20'	75°44'	j955									S	ASOS Commissioned 04/01/96 j. Ground elevation.

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* NOTES: For earlier station history see previous edition.