

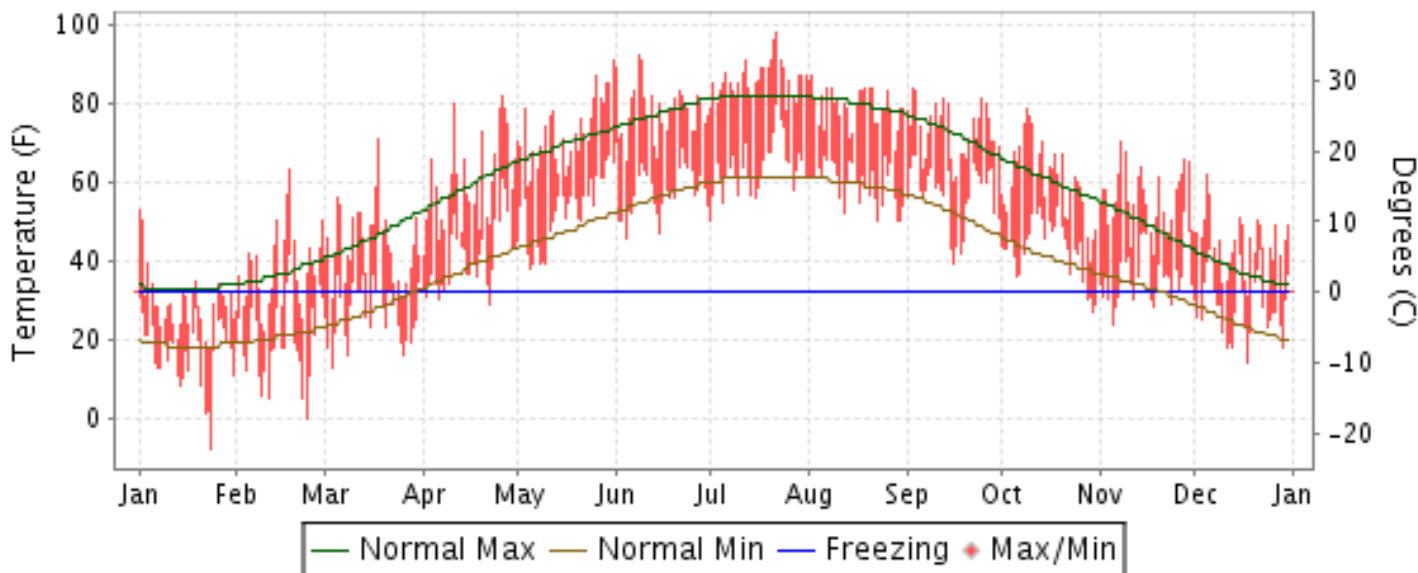


# 2011 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

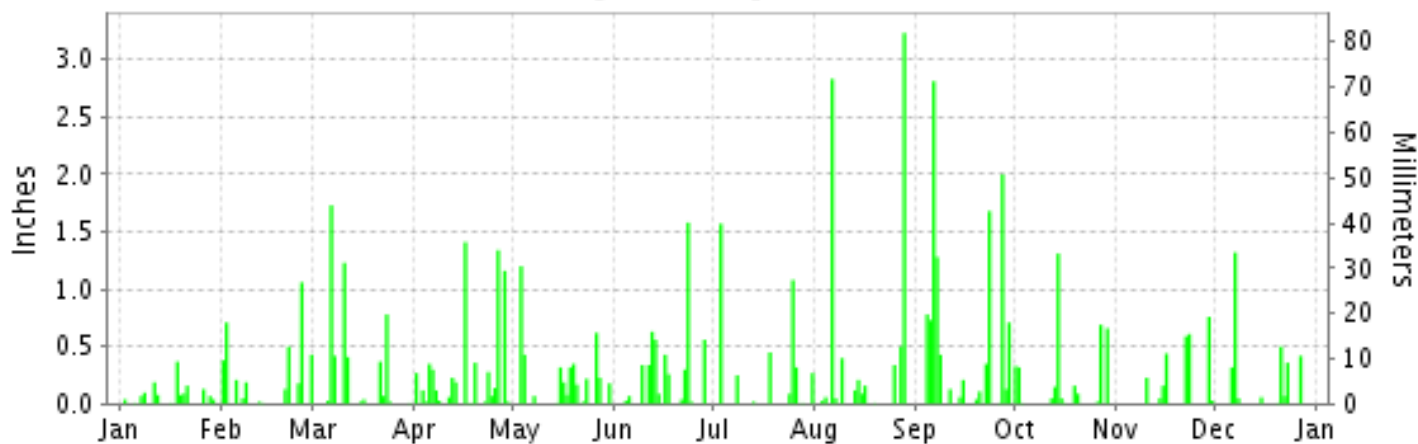
ISSN 0198-4470

## WILKES-BARRE/SCRANTON, PENNSYLVANIA (KAVP)

### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure



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NATIONAL  
CLIMATIC DATA CENTER  
ASHEVILLE, NORTH CAROLINA

*Thomas R. Karl*  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2011

## WILKES-BARRE/SCRANTON (KAVP)

LATITUDE: 41° 20'N      LONGITUDE: -75° 43'W      ELEVATION (FT): GRND: 930 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	29.3	37.7	44.2	60.0	72.6	78.2	86.1	79.3	73.0	60.6	55.6	43.8	60.0	
	HIGHEST DAILY MAXIMUM	53	63	71	82	91	92	98	87	84	79	70	62	98	
	DATE OF OCCURRENCE	01	18	18	26	31	08	22	02	03	09	08	05	JUL 22	
	MEAN DAILY MINIMUM	16.4	19.2	27.2	41.0	52.6	58.1	63.8	59.8	57.1	43.1	36.2	28.5	41.9	
	LOWEST DAILY MINIMUM	-8	0	13	29	38	46	50	50	39	27	24	14	-8	
	DATE OF OCCURRENCE	24	23	03	22	05	04	01	30+	16	30	05	18	JAN 24	
	AVERAGE DRY BULB	22.9	28.5	35.7	50.5	62.6	68.2	75.0	69.6	65.1	51.9	45.9	36.2	51.0	
	MEAN WET BULB	21.3	25.1	31.6	45.2	56.5	61.8	66.9	63.8	60.8	47.1	41.3	33.2	46.2	
	MEAN DEW POINT	15.2	16.9	23.9	39.8	51.6	57.6	62.3	60.4	58.1	42.4	35.3	27.8	40.9	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	1	2	5	0	0	0	0	0	0	8
MAXIMUM <= 32°	25	9	3	0	0	0	0	0	0	0	0	3	40		
MINIMUM <= 32°	31	25	23	5	0	0	0	0	0	4	10	22	120		
MINIMUM <= 0°	1	1	0	0	0	0	0	0	0	0	0	0	2		
H/C	HEATING DEGREE DAYS	1302	1020	899	440	131	27	0	8	78	399	563	888	5755	
	COOLING DEGREE DAYS	0	0	0	12	67	129	319	158	87	0	0	0	772	
RH	MEAN (PERCENT)	71	63	65	71	71	73	68	77	82	74	68	72	71	
	HOUR 01 LST	79	66	72	80	84	85	83	91	91	81	74	77	80	
	HOUR 07 LST	79	71	73	75	75	78	74	81	87	81	78	79	78	
	HOUR 13 LST	61	56	54	58	56	57	48	58	68	59	53	60	57	
	HOUR 19 LST	71	59	61	70	70	72	69	78	85	74	66	73	71	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	2	6	4	2	2	2	3	6	3	1	0	0	31	
	THUNDERSTORMS	0	1	0	1	5	4	5	2	2	1	0	0	21	
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.)	28.90	28.94	29.06	28.87	28.92	28.90	28.92	28.87	29.00	28.95	29.04	29.08	28.95	
	MEAN SEA-LEVEL PRESS. (IN.)	29.96	29.97	30.10	29.89	29.93	29.90	29.91	29.85	30.01	29.98	30.07	30.13	29.98	
WINDS	RESULTANT SPEED (MPH)	2.9	4.1	2.6	2.3	0.9	1.4	1.0	0.5	0.3	1.1	1.9	2.4	1.6	
	RES. DIR. (TENS OF DEGS.)	30	29	31	25	24	28	27	28	23	25	25	28	28	
	MEAN SPEED (MPH)	5.2	7.3	7.3	7.3	4.9	4.7	4.5	4.1	3.5	5.4	5.2	5.1	5.4	
	PREVAIL.DIR.(TENS OF DEGS.)	23	23	34	23	20	11	10	11	23	23	23	23	23	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	25	33	31	35	30	26	31	39	26	24	30	29	39	
	DIR. (TENS OF DEGS.)	33	26	33	27	24	32	01	35	25	23	29	31	35	
	DATE OF OCCURRENCE	23	14	02	26	26	02	26	28	29	15	23	16	AUG 28	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	32	47	41	62	49	37	39	55	33	36	41	39	62	
DIR. (TENS OF DEGS.)	31	26	14	13	23	32	01	35	26	24	29	30	13		
DATE OF OCCURRENCE	12	18	09	16	26	02	26	28	29	15	23	16	APR 16		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	1.44	3.87	5.13	6.51	4.41	5.25	4.06	8.03	11.46	3.85	2.87	3.11	59.99	
	GREATEST 24-HOUR (IN.)	0.37	1.24	2.14	1.41	1.63	1.84	1.57	3.72	3.16	1.45	1.18	1.37	3.72	
	DATE OF OCCURRENCE	18	24-25	06-07	16	03-04	22-23	03	27-28	06-07	13-14	22-23	07-08	AUG 27-28	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	14	12	12	21	15	14	9	13	16	13	8	9	156	
PRECIPITATION 0.10	5	9	6	13	11	9	6	8	13	7	6	5	98		
PRECIPITATION 1.00	0	1	2	3	1	1	2	2	4	1	0	1	18		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	18.3	16.2	14.9	0.7	0.0	0.0	T	0.0	0.0	9.1	T	1.5	60.7	
	GREATEST 24-HOUR (IN.)	4.0	7.7	9.0	0.7	0.0	0.0	T	0.0	0.0	9.1	T	1.0	9.1	
	DATE OF OCCURRENCE	11	21	23	01			26			29	30	07	OCT 29	
	MAXIMUM SNOW DEPTH (IN.)														
	DATE OF OCCURRENCE														
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	8	5	2	0	0	0	0	0	0	1	0	1	17		

# NORMALS, MEANS, AND EXTREMES WILKES-BARRE/SCRANTON (KAVP)

LATITUDE:  
41° 20'N

LONGITUDE:  
-75° 43'W

ELEVATION (FT):  
GRND: 930 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	63	33.1	35.8	45.2	58.7	69.7	77.9	82.3	80.3	72.5	61.3	49.0	37.2	58.6
	HIGHEST DAILY MAXIMUM	56	67	71	85	93	93	97	101	98	95	87	80	71	101
	YEAR OF OCCURRENCE		2008	1985	1998	2009	2006	1964	1988	2001	1983	2007	1982	2006	JUL 1988
	MEAN OF EXTREME MAXS.	63	54.7	55.0	68.0	81.0	86.3	90.2	92.1	90.0	86.5	78.2	68.2	57.5	75.6
	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	63	18.8	20.1	27.9	38.4	48.1	56.7	61.4	60.0	52.6	42.0	33.6	23.6	40.3
	LOWEST DAILY MINIMUM	56	-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.	63	0.0	1.7	10.0	23.7	34.0	43.1	49.4	47.0	37.3	27.8	18.3	5.1	24.8
	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	63	26.0	28.0	36.6	48.5	58.9	67.5	71.9	70.2	62.6	51.6	41.3	30.4	49.5
	MEAN WET BULB	28	22.9	24.1	30.8	40.8	51.1	60.3	64.0	63.0	56.7	45.7	36.8	27.2	43.6
	MEAN DEW POINT	28	19.6	20.0	26.6	36.4	47.6	57.7	61.8	60.9	54.6	42.8	33.5	23.9	40.5
	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
	HOURLY 01 LST	30	73	70	68	66	74	81	82	84	84	80	75	75	76
	HOURLY 07 LST	30	76	75	74	72	77	83	84	87	88	84	79	77	80
	HOURLY 13 LST	30	66	61	56	52	54	57	57	59	62	59	64	66	59
	HOURLY 19 LST	30	68	63	58	54	57	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)	48	1.8	2.0	1.7	1.1	1.0	1.1	1.5	1.9	2.4	1.6	1.4	2.2	19.7
	THUNDERSTORMS	61	0.2	0.2	0.6	1.7	3.4	5.0	6.1	4.3	2.1	0.8	0.4	0.2	25.0
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	41	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	41	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	41	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)	28	29.01	29.00	28.99	28.94	28.97	28.96	28.98	29.02	29.06	29.05	29.05	29.03	29.01
	MEAN SEA-LEVEL PRES. (IN)	28	30.05	30.04	30.03	29.96	29.98	29.96	29.98	30.02	30.07	30.07	30.07	30.07	30.03
WINDS	MEAN SPEED (MPH)	28	7.8	8.2	8.4	8.1	7.2	6.5	6.2	5.8	6.2	6.7	7.4	7.6	7.2
	PREVAIL.DIR(TENS OF DEGS)	36	24	24	33	35	23	24	25	11	23	23	24	24	24
	MAXIMUM 2-MINUTE: SPEED (MPH)	15	36	38	39	38	45	36	39	46	45	36	40	43	46
	DIR. (TENS OF DEGS)		23	26	28	24	31	29	36	25	32	28	27	26	25
	YEAR OF OCCURRENCE		1999	1997	2000	2010	1998	2000	2001	1997	1998	2003	2005	2000	AUG 1997
	MAXIMUM 3-SECOND SPEED (MPH)	15	58	48	53	62	55	49	47	55	51	48	52	55	62
	DIR. (TENS OF DEGS)		15	26	25	13	31	32	01	35	35	28	26	20	13
YEAR OF OCCURRENCE		2010	2009	1997	2011	1998	2008	2001	2011	2001	2003	2004	2006	APR 2011	
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)	56	6.48	8.06	5.21	9.56	8.02	9.00	7.25	8.03	11.46	8.12	7.69	6.58	11.46
	YEAR OF OCCURRENCE		1979	1981	2008	1983	1989	2006	1986	2011	2011	1976	1972	1983	SEP 2011
	MINIMUM MONTHLY (IN)	56	0.39	0.30	0.49	0.96	0.77	0.27	1.04	0.95	0.80	0.03	0.80	0.35	0.03
	YEAR OF OCCURRENCE		1980	1968	1981	1997	1959	1966	1993	1995	2005	1963	1976	1958	OCT 1963
	MAXIMUM IN 24 HOURS (IN)	56	3.49	3.11	3.02	3.80	2.58	3.61	2.83	3.72	6.52	4.28	3.60	2.86	6.52
	YEAR OF OCCURRENCE		2008	1981	1986	1983	1972	1973	2000	2011	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	0.0	0.1	4.3	7.3	47.0
	MAXIMUM MONTHLY (IN)	45	42.3	27.1	32.0	26.7	2.4	T	T	T	T	9.1	22.5	33.9	42.3
	YEAR OF OCCURRENCE		1994	2010	1993	1983	1977	2008	2011	1993	1993	2011	1971	1969	JAN 1994
	MAXIMUM IN 24 HOURS (IN)	45	20.6	13.3	20.4	12.2	2.4	T	T	T	T	9.1	20.5	12.4	20.6
	YEAR OF OCCURRENCE		1996	1961	1993	1983	1977	2008	2011	1993	1993	2011	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) 2011 WILKES-BARRE/SCRANTON (KAVP)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
2005	5.35	1.70	3.28	4.02	1.26	2.07	2.21	2.17	0.80	7.66	3.40	2.76	36.68
2006	4.26	1.22	1.31	3.15	2.16	9.00	3.02	4.40	5.76	3.83	6.06	1.39	45.56
2007	2.65	3.41	2.33	4.06	1.72	3.03	4.15	5.04	1.33	7.87	4.13	4.06	43.78
2008	2.51	5.90	5.21	1.99	3.85	3.73	4.33	2.05	4.81	2.52	1.26	5.09	43.25
2009	1.98	0.88	1.13	1.53	5.47	4.60	4.46	5.12	2.24	4.18	1.16	2.71	35.46
2010	2.04	1.76	3.45	2.20	1.58	2.90	2.47	1.97	4.32	4.52	2.64	2.45	32.30
2011	1.44	3.87	5.13	6.51	4.41	5.25	4.06	8.03	11.46	3.85	2.87	3.11	59.99
POR= 63 YRS	2.36	2.11	2.64	3.26	3.45	3.86	3.70	3.51	3.73	3.07	3.14	2.69	37.52

WBAN : 14777

**AVERAGE TEMPERATURE (°F) 2011 WILKES-BARRE/SCRANTON (KAVP)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
2005	23.0	29.8	31.8	51.4	55.6	72.6	75.3	75.6	67.6	52.8	43.6	27.0	50.5
2006	34.9	29.8	37.4	50.4	59.0	66.5	73.5	70.5	60.8	50.1	45.7	38.0	51.4
2007	31.4	21.5	36.0	45.1	60.9	68.8	70.2	70.7	65.6	59.0	39.4	30.7	49.9
2008	29.4	28.3	36.8	51.9	54.9	69.6	72.2	67.5	64.4	49.1	40.5	31.5	49.7
2009	20.8	30.6	39.5	51.6	59.3	66.4	68.3	70.3	60.9	49.0	45.1	29.3	49.3
2010	25.6	27.8	42.8	53.4	61.8	69.6	74.9	71.8	65.1	51.7	42.0	26.4	51.1
2011	22.9	28.5	35.7	50.5	62.6	68.2	75.0	69.6	65.1	51.9	45.9	36.2	51.0
POR= 63 YRS	26.0	28.0	36.6	48.5	58.9	67.5	71.9	70.2	62.6	51.6	41.3	30.4	49.5

**HEATING DEGREE DAYS (base 65°F) 2011 WILKES-BARRE/SCRANTON (KAVP)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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
2004-05	1	26	63	445	677	1058	1294	978	1021	406	296	14	6279
2005-06	0	0	44	377	636	1172	927	980	849	431	211	54	5681
2006-07	0	6	134	454	573	829	1033	1212	893	590	177	28	5929
2007-08	19	22	72	231	759	1055	1095	1060	868	390	314	25	5910
2008-09	0	13	90	487	732	1031	1364	958	783	429	189	43	6119
2009-10	5	11	132	489	590	1099	1212	1037	681	352	172	32	5812
2010-11	7	3	80	404	681	1191	1302	1020	899	440	131	27	6185
2011-	0	8	78	399	563	888							

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**COOLING DEGREE DAYS (base 65°F) 2011 WILKES-BARRE/SCRANTON (KAVP)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
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
2005	0	0	0	5	9	253	329	331	129	10	0	0	1066
2006	0	0	0	0	32	104	271	184	13	0	0	0	604
2007	0	0	0	1	56	147	187	205	98	52	0	0	746
2008	0	0	0	6	6	168	230	98	78	0	0	0	586
2009	0	0	0	32	20	92	116	183	13	0	0	0	456
2010	0	0	0	13	79	178	320	222	90	0	0	0	902
2011	0	0	0	12	67	129	319	158	87	0	0	0	772

**SNOWFALL (inches) 2011 WILKES-BARRE/SCRANTON (KAVP)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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	4.9	0.0	0.0	97.7
1996-97	0.0	0.0	0.0	0.0	1.4	11.7	6.5	5.2	12.7	T	0.0	0.0	37.5
1997-98	0.0	0.0	0.0	0.0	4.8	16.6	5.7	7.2	6.3	0.0	0.0	0.0	40.6
1998-99	0.0	0.0	0.0	0.0	0.0	1.7	10.1	6.0	9.8	0.0	0.0	0.0	27.6
1999-00	0.0	0.0	0.0	0.0	0.9	1.3	21.6	5.9	1.3	5.1	0.0	0.0	36.1
2000-01	0.0	0.0	0.0	0.2	1.8	14.0	11.2	9.2	13.4	0.0	0.0	0.0	49.8
2001-02	0.0	0.0	0.0	0.0	0.0	1.2	22.6	2.2	4.0	0.1	0.0	0.0	30.1
2002-03	0.0	0.0	0.0	0.8	6.8	28.5	14.0	19.5	8.7	3.0	0.0	0.0	81.3
2003-04	0.0	0.0	0.0	0.5	1.2	19.5	15.9	5.0	10.8	0.5	0.0	0.0	53.4
2004-05	0.0	0.0	0.0	0.0	0.1	3.9	23.9	11.6	11.9	0.0	0.0	0.0	51.4
2005-06	0.0	0.0	0.0	0.0	1.3	10.3	4.8	3.7	6.4	0.5	0.0	0.0	27.0
2006-07	0.0	0.0	0.0	0.0	T	0.2	5.9	19.5	12.9	10.6	0.0	0.0	49.1
2007-08			0.0	0.0	5.9	16.4	5.2	13.3	0.7	T	0.0	T	
2008-09	0.0	0.0	0.0	1.0	0.2	12.0	11.4	3.9	2.9	T	0.0	0.0	31.4
2009-10	0.0	0.0	0.0	0.2	T	15.6	5.1	27.1	0.5	0.0	T	0.0	48.5
2010-11	0.0	0.0	0.0	0.0	0.3	4.7	18.3	16.2	14.9	0.7	0.0	0.0	55.1
2011-	T	0.0	0.0	9.1	T	1.5							
POR= 64 YRS	T	T	T	0.4	3.1	8.8	11.3	9.8	8.5	2.1	0.1	T	44.1

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. 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 EIGHTS(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

## WILKES-BARRE/SCRANTON PENNSYLVANIA (KAVP)

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 History

WILKES-BARRE/SCRANTON, PA

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
WILKES-BARRE SCRANTON AP	1948-05-01	1954-01-01	41° 21'	-75° 43'	928		AIRWAYS, COOP
WILKES-BARRE SCRANTON INTL AP	2010-06-04	2010-10-01	41° 20'	-75° 43'	930		AIRWAYS, ASOS, COOP
WILKES-BARRE SCRANTON AP	1981-12-31	1996-04-01	41° 19'	-75° 43'	930		COOP
WILKES-BARRE	1934-09-01	1946-12-31	41° 18'	-75° 52'			AIRWAYS
WILKES-BARRE SCRANTON AP	1947-01-01	1948-05-01	41° 21'	-75° 43'			AIRWAYS
WILKES-BARRE SCRANTON AP	1955-01-01	1964-01-01	41° 19'	-75° 43'	928		AIRWAYS, COOP
WILKES-BARRE SCRANTON AP	1964-01-01	1973-01-01	41° 19'	-75° 43'	930		AIRWAYS, COOP
WILKES-BARRE SCRANTON AP	1954-01-01	1955-01-01	41° 21'	-75° 43'	945		AIRWAYS, COOP
TRENTON DEL RIVER	1962-10-01	1981-10-31	40° 13'	-74° 46'	10		COOP
WILKES-BARRE SCRANTON AP	1973-01-01	1981-12-31	41° 19'	-75° 43'	930		COOP, WXSVC
WILKES-BARRE SCRANTON INTL AP	1996-04-01	2010-06-04	41° 20'	-75° 43'	930		ASOS, COOP
WILKES-BARRE SCRANTON INTL AP	2010-10-01	Present	41° 20'	-75° 43'	930		ASOS, COOP

# Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	1982-01-01	1992-06-10	HOURLY	2400			
PRECIP	1995-07-01	2010-06-04	HOURLY	2400	TB	RCRD	
PRECIP	2010-06-04	2010-10-01	DAILY	2400	PCPN1		
TEMP	1982-01-01	1992-06-10	DAILY	2400			
PRECIP	1995-07-01	2010-06-04	DAILY	2400	SRG		
PRECIP	2010-10-01	Present	HOURLY	2400	TB	RCRD	
PRECIP	2010-10-01	Present	DAILY	2400	PCPN1		
TEMP	1995-07-01	2010-06-04	DAILY	2400	HYGR		
TEMP	2010-10-01	Present	DAILY	2400	HYGR		
TEMP	1947-01-01	1982-01-01	DAILY	2400			
PRECIP	1992-06-10	1995-07-01	DAILY	2400	SRG		
TEMP	2010-06-04	2010-10-01	DAILY	2400			
PRECIP	1947-01-01	1982-01-01	DAILY	2400			
PRECIP	1982-01-01	1992-06-10	DAILY	2400			
PRECIP	1992-06-10	1995-07-01	HOURLY	2400			
TEMP	1992-06-10	1995-07-01	DAILY	2400	HYGR		
PRECIP	2010-06-04	2010-10-01	HOURLY	2400	TB	RCRD	

\* 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

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151 Patton Avenue

Asheville, NC 28801-5001

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