

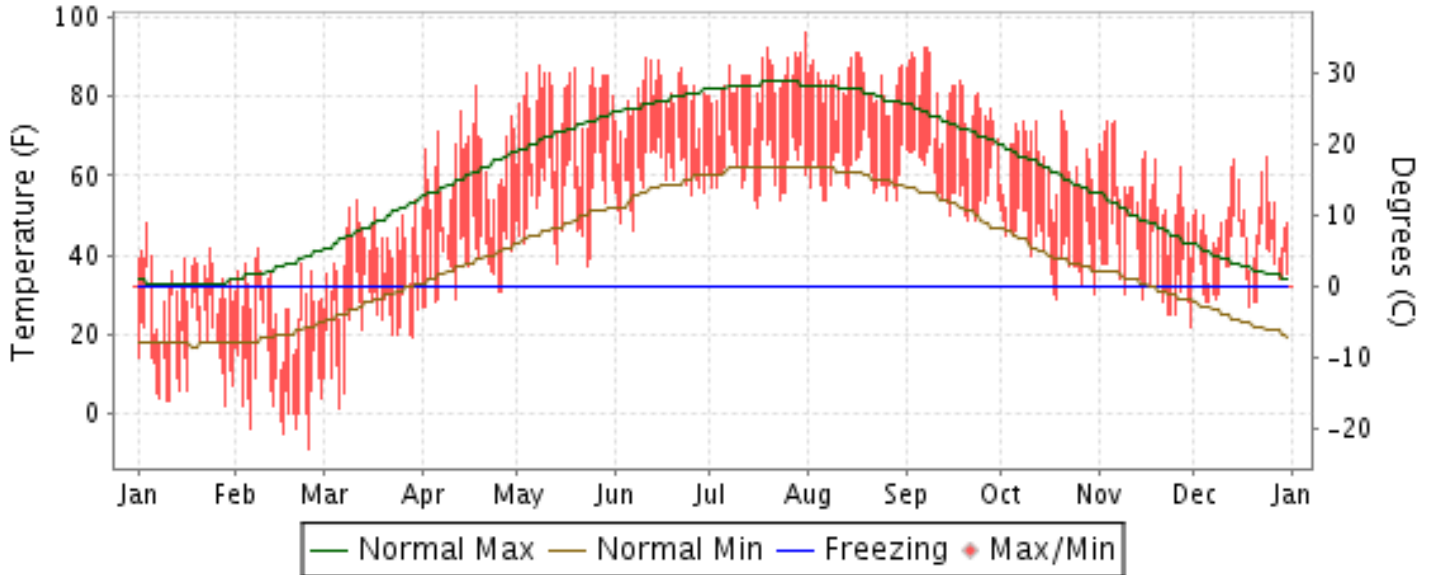


2015 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

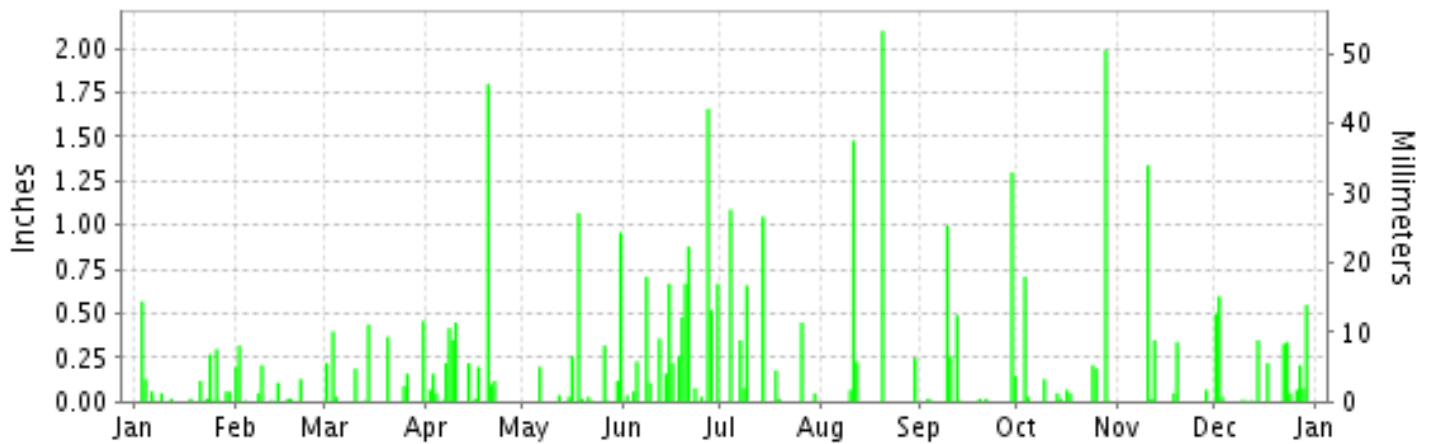
ISSN 0198-4551

WILLIAMSPORT, PENNSYLVANIA (KIPT)

Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
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METEOROLOGICAL DATA FOR 2015

WILLIAMSPORT (KIPT)

LATITUDE: 41° 14'N LONGITUDE: 76° 55'W ELEVATION (FT): GRND: 520 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	32.5	28.4	42.1	62.3	78.3	79.5	84.2	83.5	79.7	63.5	57.1	48.7	61.7	
	HIGHEST DAILY MAXIMUM	48	42	54	83	88	90	96	91	92	76	74	65	96	
	DATE OF OCCURRENCE	04	08	30+	18	08	11	31	17+	08+	20	06+	24	JUL 31	
	MEAN DAILY MINIMUM	16.0	7.8	23.6	38.3	53.6	60.1	61.9	60.8	58.1	42.1	36.8	37.4	41.4	
	LOWEST DAILY MINIMUM	2	-9	1	27	37	46	52	54	49	29	22	27	-9	
	DATE OF OCCURRENCE	29	24	06	02+	23	07	16	29+	23+	19	30	19	FEB 24	
	AVERAGE DRY BULB	24.2	18.1	32.9	50.3	65.9	69.8	73.1	72.2	68.9	52.8	47.0	43.0	51.5	
	MEAN WET BULB	21.4	16.0	28.5	43.2	58.1	63.7	65.7	64.2	61.8	47.1	42.0	40.5	46.0	
	MEAN DEW POINT	13.2	6.1	19.0	34.4	51.6	60.1	61.5	59.7	58.1	41.7	35.4	36.5	39.8	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	1	7	4	5	0	0	0	0	17
	MAXIMUM <= 32°	13	18	3	0	0	0	0	0	0	0	0	0	0	34
MINIMUM <= 32°	30	28	28	7	0	0	0	0	0	4	12	9	118		
MINIMUM <= 0°	0	9	0	0	0	0	0	0	0	0	0	0	0	9	
H/C	HEATING DEGREE DAYS	1257	1307	989	435	93	21	2	0	23	369	533	672	5701	
	COOLING DEGREE DAYS	0	0	0	0	128	172	260	229	152	0	0	0	941	
RH	MEAN (PERCENT)	63	58	61	60	64	74	71	70	74	70	67	78	68	
	HOUR 01 LST	67	65	67	76	78	87	86	86	86	80	76	81	78	
	HOUR 07 LST	71	67	70	69	72	80	79	78	84	81	75	81	76	
	HOUR 13 LST	56	48	50	42	44	59	50	49	52	51	50	72	52	
	HOUR 19 LST	61	57	58	54	60	74	69	72	77	70	66	80	67	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	0	2	3	3	1	3	2	2	3	3	3	9	34	
	THUNDERSTORMS	0	0	0	2	3	5	3	1	3	1	0	0	18	
PR	MEAN STATION PRESS. (IN.)	29.54	29.50	29.54	29.41	29.54	29.39	29.36	29.42	29.52	29.53	29.61	29.52	29.49	
	MEAN SEA-LEVEL PRESS. (IN.)	30.13	30.10	30.12	29.98	30.10	29.94	29.92	29.98	30.08	30.10	30.19	30.10	30.06	
WINDS	RESULTANT SPEED (MPH)	3.9	3.2	3.3	1.8	1.4	0.9	1.3	1.5	0.8	1.2	1.6	1.0	1.7	
	RES. DIR. (TENS OF DEGS.)	29	31	31	29	24	24	26	26	27	30	27	29	29	
	MEAN SPEED (MPH)	7.4	7.3	6.9	7.3	5.7	5.6	4.4	4.4	4.1	5.0	5.8	5.9	5.8	
	PREVAIL.DIR.(TENS OF DEGS.)	27	28	30	29	17	26	27	26	27	27	26	27	27	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	36	31	32	33	30	38	29	24	26	29	32	28	38	
	DIR. (TENS OF DEGS.)	27	27	32	16	26	22	21	15	10	25	27	25	22	
	DATE OF OCCURRENCE	04	18	17	13	12	08	19	10	04	29	13	14	JUN 08	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	47	43	44	43	41	51	38	31	34	39	47	36	51	
DIR. (TENS OF DEGS.)	29	29	32	26	22	23	20	16	14	26	29	25	23		
DATE OF OCCURRENCE	05	02	17	21	12	08	19	10	19	29	13	14	JUN 08		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	1.71	1.08	2.37	4.19	3.07	7.81	3.93	4.13	3.28	3.46	2.17	3.36	40.56	
	GREATEST 24-HOUR (IN.)	0.65	0.52	0.46	1.87	1.09	2.10	1.09	2.10	1.36	1.99	1.36	0.70	2.10	
	DATE OF OCCURRENCE	03-04	01-02	31	20-21	18-19	27-28	04	20	29-30	28	10-11	01-02	AUG 20	
	NUMBER OF DAYS WITH:														
PRECIPITATION 0.01	15	10	10	14	12	18	9	5	10	11	6	15	135		
PRECIPITATION 0.10	5	5	7	10	6	14	6	4	5	5	3	8	78		
PRECIPITATION 1.00	0	0	0	1	1	1	2	2	2	1	1	0	11		
SNOWFALL	SNOW,ICE PELLETS,HAIL	14.7	9.2	11.4	T	0.0	0.0	0.0	0.0	0.0	T	T	T	35.3	
	TOTAL (IN.)	4.5	2.3	4.3	T	0.0	0.0	0.0	0.0	0.0	T	T	T	4.5	
	GREATEST 24-HOUR (IN.)	26+	01	31	23						18	24	19+	JAN 26+	
	DATE OF OCCURRENCE	6	9	7	2	0	0	0	0	0	0	0	0	9	
	MAXIMUM SNOW DEPTH (IN.)	31+	02	02	01									FEB 02	
	DATE OF OCCURRENCE														
	NUMBER OF DAYS WITH:														
SNOWFALL >= 1.0	4	5	4	0	0	0	0	0	0	0	0	0	13		

NORMALS, MEANS, AND EXTREMES WILLIAMSPORT (KIPT)

LATITUDE: 41° 14'N **LONGITUDE:** 76° 55'W **ELEVATION (FT):** GRND: 520 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	34.2	38.0	47.9	60.9	71.5	79.7	83.6	81.6	73.5	62.0	49.9	38.1	60.1
	MEAN DAILY MAXIMUM	67	34.6	37.6	47.6	61.1	71.9	79.9	84.2	82.1	74.3	63.0	50.2	38.6	60.4
	HIGHEST DAILY MAXIMUM	71	69	71	87	94	96	102	103	100	102	91	83	70	103
	YEAR OF OCCURRENCE		1967	1985	1998	2009	1996	1952	2011	1955	1953	1951	1950	2006	JUL 2011
	MEAN OF EXTREME MAXS.	67	53.4	55.4	69.2	82.6	87.9	92.2	94.4	91.8	88.3	78.7	68.4	56.8	76.6
	NORMAL DAILY MINIMUM	30	19.3	21.4	28.6	38.9	47.9	57.6	61.9	60.7	53.1	41.5	33.3	24.3	40.7
	MEAN DAILY MINIMUM	67	19.0	20.4	28.4	38.6	48.3	57.2	61.8	60.4	53.2	41.8	33.2	24.2	40.5
	LOWEST DAILY MINIMUM	71	-20	-13	-2	15	28	36	43	38	28	20	8	-15	-20
	YEAR OF OCCURRENCE		1994	1971	1996	1982	1996	1986	1965	1965	1947	1972	1976	1950	JAN 1994
	MEAN OF EXTREME MINS.	67	-0.2	1.6	11.5	24.9	33.6	43.8	50.1	48.1	38.7	27.8	19.0	6.2	25.4
	NORMAL DRY BULB	30	26.8	29.7	38.2	49.9	59.7	68.6	72.7	71.1	63.3	51.7	41.6	31.2	50.4
	MEAN DRY BULB	67	26.8	29.0	38.0	49.9	60.1	68.7	73.0	71.3	63.8	52.4	41.7	31.4	50.5
	MEAN WET BULB	32	22.4	23.8	30.6	40.9	51.8	60.9	64.8	63.6	57.3	46.1	36.0	27.7	43.8
	MEAN DEW POINT	32	20.4	21.0	28.3	38.2	49.8	59.1	63.5	62.5	56.2	44.6	34.3	25.6	42.0
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.1	0.8	2.2	4.8	2.7	0.4	0.0	0.0	0.0	11.0
	MAXIMUM <= 32	30	12.7	6.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	7.6	29.4
MINIMUM <= 32	30	27.7	24.4	20.4	6.2	0.4	0.0	0.0	0.0	0.0	3.6	13.8	24.8	121.3	
MINIMUM <= 0	30	1.5	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.3	
H/C	NORMAL HEATING DEG. DAYS	30	1186	988	829	459	203	37	4	10	114	415	702	1048	5995
	NORMAL COOLING DEG. DAYS	30	0	0	0	5	38	146	244	201	63	5	0	0	702
RH	NORMAL (PERCENT)	30	70	67	63	61	67	71	73	76	78	75	72	72	70
	HOURLY 01 LST	30	74	73	71	71	81	87	88	90	90	85	79	76	80
	HOURLY 07 LST	30	77	76	76	74	81	85	87	90	92	88	81	78	82
	HOURLY 13 LST	30	62	57	52	48	52	56	56	58	61	58	61	63	57
	HOURLY 19 LST	30	67	63	57	52	52	57	62	64	69	75	72	69	65
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	52	2.1	1.9	1.8	1.6	2.4	2.3	2.4	3.6	7.1	5.9	2.9	2.3	36.3
	THUNDERSTORMS	62	0.2	0.3	0.7	2.0	4.5	6.1	7.2	5.4	2.9	0.9	0.4	0.2	30.8
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)														
	MIDNIGHT-MIDNIGHT (OKTAS)														
	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	29.49	29.49	29.47	29.41	29.43	29.41	29.42	29.46	29.51	29.50	29.52	29.51	29.47
	MEAN SEA-LEVEL PRES. (IN)	32	30.08	30.07	30.05	29.98	29.99	29.96	29.98	30.02	30.07	30.07	30.10	30.10	30.04
WINDS	MEAN SPEED (MPH)	32	7.7	7.8	7.9	7.9	6.6	6.0	5.4	4.9	5.2	5.8	6.8	7.2	6.6
	PREVAIL.DIR(TENS OF DEGS)	39	28	28	29	28	28	27	27	27	27	28	28	28	28
	MAXIMUM 2-MINUTE: SPEED (MPH)	20	43	45	43	46	47	45	48	37	44	40	43	39	48
	DIR. (TENS OF DEGS)		24	26	24	28	25	25	25	36	25	26	25	25	25
	YEAR OF OCCURRENCE		1999	2006	2002	2013	1997	2006	2014	2001	2000	2001	1998	2010	JUL 2014
	MAXIMUM 3-SECOND SPEED (MPH)	20	51	59	55	58	67	59	66	58	60	54	56	63	67
	DIR. (TENS OF DEGS)		26	26	25	31	25	26	24	27	27	28	26	22	25
YEAR OF OCCURRENCE		2008	2006	2002	2013	1997	2006	2014	1997	2010	2003	2003	2009	MAY 1997	
PRECIPITATION	NORMAL (IN)	30	2.70	2.34	2.97	3.24	3.66	3.92	4.34	3.86	4.16	3.42	3.74	2.93	41.28
	MAXIMUM MONTHLY (IN)	71	8.25	8.42	7.27	10.04	9.45	16.80	9.65	7.67	15.97	9.60	8.09	7.36	16.80
	YEAR OF OCCURRENCE		1978	1981	2011	2011	1946	1972	1992	1988	2011	1990	1972	1973	JUN 1972
	MINIMUM MONTHLY (IN)	71	0.52	0.57	0.85	0.70	0.80	0.66	0.99	0.93	0.01	0.19	0.65	0.68	0.01
	YEAR OF OCCURRENCE		1985	1968	1995	1989	1964	1966	1955	1995	1995	1963	2012	1989	SEP 1995
	MAXIMUM IN 24 HOURS (IN)	71	3.65	2.72	2.67	3.01	4.15	8.66	3.30	5.53	7.55	4.38	3.68	3.29	8.66
	YEAR OF OCCURRENCE		2010	1971	2011	2005	1946	1972	2000	1988	2011	1955	2005	1983	JUN 1972
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	11.0	9.7	11.5	11.6	13.3	11.9	11.4	10.3	10.0	10.3	11.0	10.8	132.8
PRECIPITATION >= 1.00	30	0.4	0.3	0.5	0.6	0.7	0.9	1.0	1.0	1.0	0.8	1.0	0.6	8.8	
SNOWFALL	NORMAL (IN)	30	10.5	8.8	6.9	1.1	0.0	0.0	0.0	0.0	0.0	0.1	1.7	6.9	36.0
	MAXIMUM MONTHLY (IN)	70	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	2007		2002	1995	1969	JAN 1987
	MAXIMUM IN 24 HOURS (IN)	70	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	1994	2002	1953	1969	JAN 1964
	MAXIMUM SNOW DEPTH (IN)	60	70	22	24	8	0	0	0	0	0	1	10	19	70
	YEAR OF OCCURRENCE		1961	1972	1994	1982						2011	1980	1969	JAN 1961
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	3.1	2.7	1.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.8	10.0	

PRECIPITATION (inches) 2015 WILLIAMSPORT (KIPT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
2005	4.46	2.25	3.88	4.59	1.74	1.80	6.33	6.36	1.78	5.89	6.77	2.27	48.12
2006	5.59	1.55	1.15	2.40	3.43	6.42	3.83	6.33	5.49	5.40	3.84	2.48	47.91
2007	3.05	2.05	3.79	2.93	1.68	1.63	1.58	6.76	1.63	2.85	4.02	4.74	36.71
2008	2.26	5.21	5.10	2.13	3.44	4.07	5.71	1.65	6.80	2.36	2.41	3.98	45.12
2009	2.27	0.84	1.08	3.78	4.29	3.21	5.77	4.38	2.22	5.94	1.85	4.08	39.71
2010	4.56	1.38	2.55	1.91	2.86	3.20	4.48	3.75	6.98	2.89	4.51	4.03	43.10
2011	1.25	4.20	7.27	10.04	6.44	2.20	4.92	5.59	15.97	5.30	3.40	3.68	70.26
2012	2.99	1.77	1.19	1.85	4.04	4.22	3.69	2.91	3.88	3.44	0.65	5.61	36.24
2013	2.64	1.82	1.74	3.15	3.22	4.17	3.12	1.75	1.60	2.99	2.84	3.64	32.68
2014	1.25	2.55	2.89	2.87	5.19	3.46	4.02	6.58	1.11	2.50	2.16	2.60	37.18
2015	1.71	1.08	2.37	4.19	3.07	7.81	3.93	4.13	3.28	3.46	2.17	3.36	40.56
POR= 67 YRS	2.74	2.58	3.30	3.45	3.71	3.88	4.12	3.65	3.90	3.30	3.62	3.18	41.43

WBAN : 14778

AVERAGE TEMPERATURE (°F) 2015 WILLIAMSPORT (KIPT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
2005	26.1	31.5	33.6	51.3	55.8	72.4	75.2	74.0	66.8	54.0	43.3	26.8	50.9
2006	35.2	30.9	39.7	51.7	59.7	68.3	75.6	72.5	61.9	51.1	45.4	37.8	52.5
2007	32.0	22.6	38.0	47.5	62.4	71.2	72.6	72.4	66.0	59.4	39.9	32.1	51.3
2008	30.1	28.0	38.3	53.4	56.5	71.9	73.4	68.8	65.3	50.7	40.9	32.1	50.8
2009	21.9	31.3	41.6	52.7	60.3	68.5	70.0	72.9	63.9	51.8	47.3	32.2	51.2
2010	28.8	30.2	46.5	56.4	63.6	71.4	76.1	72.5	65.1	52.2	42.5	28.1	52.8
2011	23.7	28.9	37.7	51.1	63.8	70.8	77.1	71.5	66.3	52.8	45.7	36.4	52.2
2012	31.8	35.0	49.3	50.1	65.9	69.1	76.9	72.5	63.8	54.4	39.6	36.7	53.8
2013	28.6	29.1	36.6	50.5	60.8	69.8	75.6	70.8	63.0	55.3	38.2	30.2	50.7
2014	21.0	23.2	32.5	49.0	61.5	70.1	72.4	69.6	65.2	55.0	38.7	35.7	49.5
2015	24.2	18.1	32.9	50.3	65.9	69.8	73.1	72.2	68.9	52.8	47.0	43.0	51.5
POR= 67 YRS	26.8	29.0	38.0	49.9	60.1	68.7	73.0	71.3	63.8	52.4	41.7	31.4	50.5

HEATING DEGREE DAYS (base 65°F) 2015 WILLIAMSPORT (KIPT)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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
2004-05	0	15	34	393	637	1031	1198	931	966	406	289	11	5911
2005-06	0		41	342	645	1179	914	948	779	394	200	23	
2006-07	0	1	115	423	581	834	1016	1183	830	519	141	11	5654
2007-08	5	18	64	223	748	1012	1077	1066	822	344	269	10	5658
2008-09	0	5	69	438	715	1013	1329	936	720	388	168	29	5810
2009-10	0	5	76	403	521	1009	1114	968	565	268	141	18	5088
2010-11	3	1	76	392	666	1138	1272	1006	839	424	114	11	5942
2011-12	0	2	64	372	572	878	1022	863	478	445	67	24	4787
2012-13	0	1	96	327	756	868	1120	998	870	437	187	9	5669
2013-	0	5	121	320	797	1073							
2013-14	0	5	121	320	797	1073	1354	1162	1000	483	144	8	6467
2014-15	0	5	76	307	782	903	1257	1307	989	435	93	21	6175
2015-	2	0	23	369	533	672							

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COOLING DEGREE DAYS (base 65°F) 2015 WILLIAMSPORT (KIPT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
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
2005	0	0	0	3	8	240	327	289	104	7	0	0	978
2006	0	0	0	1	42	127	335	240	27	0	0	0	772
2007	0	0	0	0	67	204	245	253	102	57	0	0	928
2008	0	0	0	1	12	224	270	132	85	0	0	0	724
2009	0	0	0	26	28	141	161	254	49	0	0	0	659
2010	0	0	0	17	104	215	357	241	85	0	0	0	1019
2011	0	0	0	13	81	193	384	212	109	0	0	0	992
2012	0	0	0	5	103	152	376	242	68	5	0	0	951
2013	0	0	0	8	63	160	337	191	74	30	0	0	863
2014	0	0	0	9	43	169	238	158	90	6	0	0	713
2015	0	0	0	0	128	172	260	229	152	0	0	0	941

SNOWFALL (inches) 2015 WILLIAMSPORT (KIPT)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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
2004-05	0.0	0.0	0.0	0.0	T	0.5	14.0	14.5	9.3	T	0.0	0.0	38.3
2005-06	0.0	0.0	0.0	0.0	1.1	13.9	3.8	2.9	1.1	2.2	T	0.0	25.0
2006-07	0.0	0.0	0.0	0.0	0.0	T	3.5	14.8	10.8	0.3	0.0	0.0	29.4
2007-08	0.0	T	0.0	0.0	3.8	8.6	2.6	15.9	0.2	0.0	0.0	0.0	31.1
2008-09	0.0	0.0	0.0	T	1.2	8.3	12.2	2.5	T	T	0.0	0.0	24.2
2009-10	0.0	0.0	0.0	0.2	0.0	10.7	4.4	19.2	0.4	0.0	0.0	0.0	34.9
2010-11	0.0	0.0	0.0	0.0	1.0	4.0	14.0	13.6	13.0	T	T	0.0	45.6
2011-12	0.0	0.0	0.0	1.0	T	0.5	6.6	4.1	0.1	0.0	0.0	0.0	12.3
2012-13	0.0	0.0	0.0	0.0	1.8	13.9	7.3	4.1	5.6	0.0	0.0	0.0	32.7
2013-	0.0	0.0	0.0	0.0	2.2	14.1							
2013-14	0.0	0.0	0.0	0.0	2.2	14.1	7.9	21.6	0.1	T	T	0.0	45.9
2014-15	0.0	0.0	0.0	0.0	5.1	4.0	14.7	9.2	11.4	T	0.0	0.0	44.4
2015-	0.0	0.0	0.0	T	T	T							
POR= 67 YRS	T	T	0.0	0.1	2.6	7.8	10.6	10.1	7.9	1.1	T	T	40.2

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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. 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 CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS.</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</p>	<p>PRECIPITATION, INCLUDING HAIL. A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65 F. DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR. DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY. WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY. ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER. STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED STATION HISTORY INFORMATION GO TO "Historical Observing Metadata Repository", URL IS: http://www.ncdc.noaa.gov/homr/ SNOWFALL STOPPED MONTH & YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.</p> <p>NOTE: The "Period of Record:(POR)" for all "averages" is based on "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p>
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2015

WILLIAMSPORT

PENNSYLVANIA (KIPT)

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.

Station History

WILLIAMSPORT, PA

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
WILLIAMSPORT LYCOMING COUNTY AP	2003-07-15	2012-02-09	41° 14'	-76° 55'	520		ASOS, COOP, USHCN
WILLIAMSPORT AP	1940-01-01	1945-10-01	41° 15'	-76° 55'			AIRWAYS
WILLIAMSPORT AP	1948-05-01	1949-01-01	41° 15'	-76° 55'	522		AIRWAYS, COOP, USHCN
WILLIAMSPORT AP	1949-02-28	1969-07-01	41° 15'	-76° 55'	524	.4 MI ESE	AIRWAYS, COOP, USHCN
WILLIAMSPORT LYCOMING COUNTY AP	1972-12-31	1976-01-01	41° 15'	-76° 55'	524		COOP, USHCN
WILLIAMSPORT LYCOMING COUNTY AP	1969-07-01	1972-12-31	41° 15'	-76° 55'	524		AIRWAYS, COOP, USHCN
WILLIAMSPORT LYCOMING COUNTY AP	1984-01-09	1995-09-01	41° 15'	-76° 55'	520		COOP, USHCN
WILLIAMSPORT LYCOMING COUNTY AP	2012-02-09	Present	41° 14'	-76° 55'	520		ASOS, COOP, USHCN
WILLIAMSPORT WSO AP	1945-10-01	1948-05-01	41° 15'	-76° 55'	520		AIRWAYS, COOP, USHCN
WILLIAMSPORT AP	1949-01-01	1949-02-28	41° 15'	-76° 55'	524		AIRWAYS, COOP, USHCN
WILLIAMSPORT LYCOMING COUNTY AP	1976-01-01	1981-12-31	41° 15'	-76° 55'	524		COOP, USHCN, WXSVC
WILLIAMSPORT LYCOMING COUNTY AP	1981-12-31	1984-01-09	41° 15'	-76° 55'	524		COOP, USHCN
WILLIAMSPORT LYCOMING COUNTY AP	1995-09-01	2003-07-15	41° 14'	-76° 55'	520	800 FT S	ASOS, COOP, USHCN

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	1995-09-01	2007-05-30	HOURLY	2400	AHTB	RCRD;HTD	
WIND	2012-02-09	Present	DAILY	2400	ANEM		
TEMP	1937-02-01	1964-07-01	DAILY	2400			
PRECIP	2007-05-30	2012-02-09	HOURLY	2400	AHTB	RCRD;HTD	
WIND	2012-02-09	Present	HOURLY	UNKN	ANEMSONIC		
PRECIP	1984-01-09	1995-04-01	DAILY	2400			
DEWPNTTEMP	2012-02-09	Present	DAILY	2400	ATEMP		
PRECIP	2012-02-09	Present	DAILY	2400	PCPNX		
PRECIP	2012-02-09	Present	HOURLY	2400	AHTB	RCRD;HTD	
TEMP	1964-07-01	1984-01-09	DAILY	2400			
WIND	1995-09-01	2007-05-30	HOURLY	UNKN	ANEMCUP		
PRECIP	1964-07-01	1984-01-09	DAILY	2400			
PRECIP	1964-07-01	1984-01-09	HOURLY	2400			
WIND	2007-05-30	2012-02-09	HOURLY	UNKN	ANEMSONIC		
TEMP	1995-09-01	2007-05-30	DAILY	2400	ATEMP		
TEMP	2012-02-09	Present	DAILY	2400	ATEMP		
PRECIP	1937-02-01	1964-07-01	DAILY	2400			
TEMP	1984-01-09	1995-04-01	DAILY	2400	ATEMP		
TEMP	1995-04-01	1995-09-01	DAILY	2400	ATEMP		
TEMP	2007-05-30	2012-02-09	DAILY	2400	ATEMP		
PRECIP	1995-04-01	1995-09-01	DAILY	2400	SRG		
PRECIP	1995-09-01	2007-05-30	DAILY	2400	AHTB	RCRD;HTD	
PRECIP	2007-05-30	2012-02-09	DAILY	2400	AHTB	RCRD;HTD	

* 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>

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