

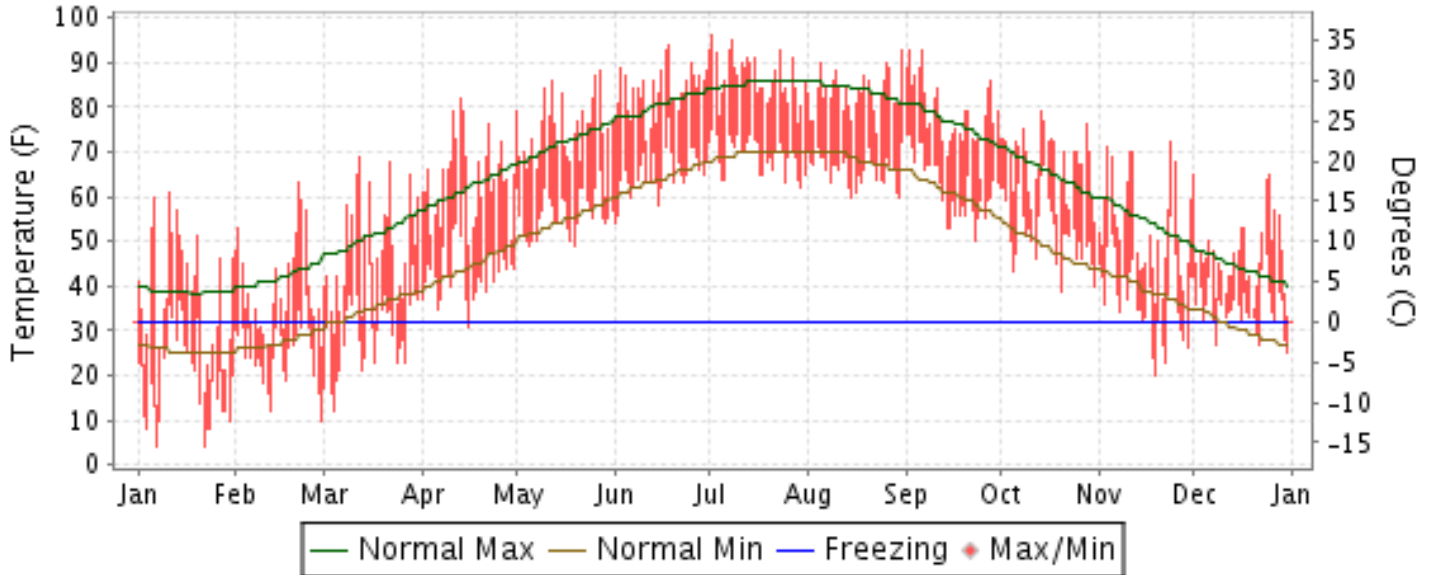


# 2014 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

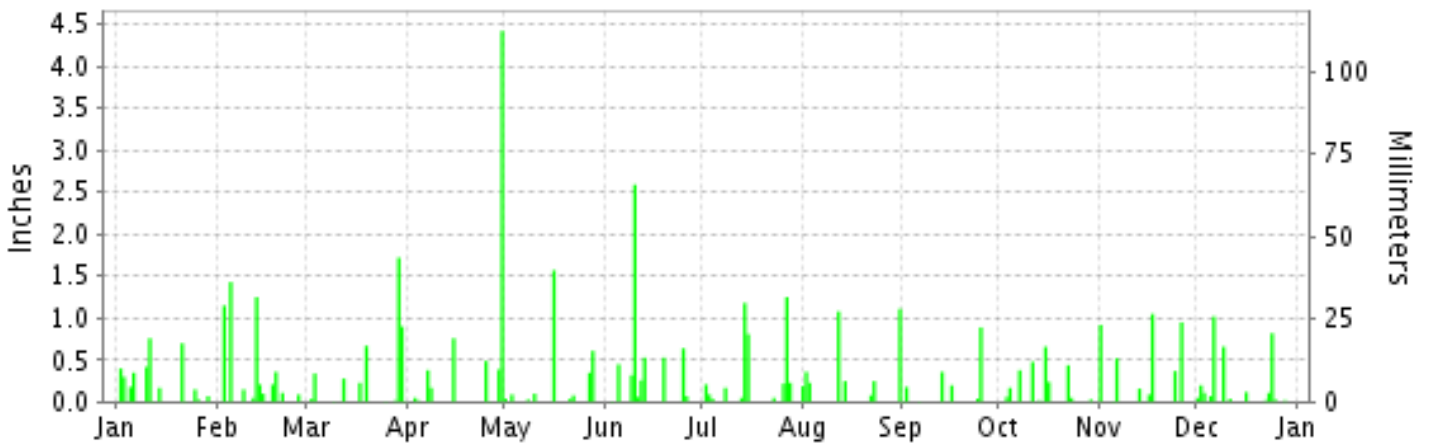
ISSN 0198-4535

## PHILADELPHIA, PENNSYLVANIA (KPHL)

### 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 2014

## PHILADELPHIA (KPHL)

LATITUDE: 39° 52'N      LONGITUDE: 75° 13'W      ELEVATION (FT): GRND: 10 BARO: 62      TIME ZONE: EASTERN (UTC -5)      WBAN: 13739

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	37.1	39.4	48.1	64.2	74.8	83.7	86.7	83.2	78.8	67.6	53.2	47.1	63.7	
	HIGHEST DAILY MAXIMUM	61	63	69	82	88	94	96	93	93	79	72	65	96	
	DATE OF OCCURRENCE	11	21	12	13	27	18	02	31	06+	14	24+	25+	JUL 02	
	MEAN DAILY MINIMUM	19.4	24.9	29.6	43.5	56.0	65.3	69.2	66.1	62.2	52.2	37.2	35.1	46.7	
	LOWEST DAILY MINIMUM	4	10	12	31	49	54	62	60	50	39	20	25	4	
	DATE OF OCCURRENCE	22+	28	04	16	19+	01	30	30+	23	20	19	31	JAN 22+	
	AVERAGE DRY BULB	28.3	32.1	38.9	53.8	65.4	74.5	78.0	74.7	70.5	59.9	45.2	41.1	55.2	
	MEAN WET BULB	25.1	27.6	32.8	45.4	56.3	64.4	67.3	65.9	62.9	53.7	39.0	36.9	48.1	
	MEAN DEW POINT	15.8	18.0	20.8	34.7	48.3	57.5	60.9	60.5	58.0	47.6	30.0	30.0	40.2	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	3	11	3	2	0	0	0	0	19
	MAXIMUM <= 32°	12	8	2	0	0	0	0	0	0	0	0	0	0	22
MINIMUM <= 32°	26	26	18	1	0	0	0	0	0	0	9	9	89		
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	1131	912	801	339	54	0	0	0	14	176	588	734	4749	
	COOLING DEGREE DAYS	0	0	0	9	74	292	412	311	188	25	0	0	1311	
RH	MEAN (PERCENT)	59	59	51	53	58	59	59	64	68	65	58	66	60	
	HOUR 01 LST	64	65	62	63	69	70	72	76	78	74	66	71	69	
	HOUR 07 LST	64	66	58	56	62	64	64	68	72	71	65	70	65	
	HOUR 13 LST	53	49	40	38	43	44	44	51	52	51	47	60	48	
	HOUR 19 LST	59	56	48	52	56	53	59	65	69	65	56	66	59	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	4	3	0	1	1	0	0	0	0	0	1	1	11	
	THUNDERSTORMS	0	3	0	2	6	5	7	2	2	0	0	0	27	
PR	MEAN STATION PRESS. (IN.)	30.03	30.04	30.00	30.02	29.99	29.97	29.95	29.99	30.07	29.91	30.03	30.11	30.01	
	MEAN SEA-LEVEL PRESS. (IN.)	30.07	30.08	30.03	30.05	30.02	30.00	29.98	30.03	30.10	29.95	30.07	30.14	30.04	
WINDS	RESULTANT SPEED (MPH)	4.8	4.4	4.4	1.1	2.1	1.6	3.9	0.8	0.9	2.6	5.4	5.2	2.7	
	RES. DIR. (TENS OF DEGS.)	28	31	32	31	27	24	23	25	01	28	28	32	29	
	MEAN SPEED (MPH)	9.5	8.9	11.0	10.5	8.3	7.4	9.0	7.0	7.6	9.1	10.1	9.9	9.0	
	PREVAIL.DIR.(TENS OF DEGS.)	26	29	33	20	23	18	20	22	23	23	29	29	20	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	36	35	38	32	32	31	48	36	35	29	38	31	48	
	DIR. (TENS OF DEGS.)	27	03	29	32	31	26	26	27	27	33	33	28	26	
	DATE OF OCCURRENCE	06	13	12	23	04	19	08	31	02	23	02	25	JUL 08	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	45	44	48	44	43	37	59	44	46	36	48	43	59	
DIR. (TENS OF DEGS.)	27	26	33	32	31	26	24	26	27	29	33	32	24		
DATE OF OCCURRENCE	06	27	13	23	04	19	08	31	02	26	02	10	JUL 08		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	3.55	5.12	4.23	6.69	2.91	5.46	4.30	3.55	1.69	2.53	4.07	3.27	47.37	
	GREATEST 24-HOUR (IN.)	0.85	1.44	2.02	4.54	1.57	2.59	1.87	1.11	0.93	0.90	1.13	1.02	4.54	
	DATE OF OCCURRENCE	10-11	04-05	29-30	29-30	16	10	14-15	31	24-25	15-16	16-17	06	APR 29-30	
	NUMBER OF DAYS WITH:														
PRECIPITATION 0.01	13	12	11	9	9	10	11	8	7	10	8	13	121		
PRECIPITATION 0.10	9	9	6	6	4	7	7	7	4	6	6	7	78		
PRECIPITATION 1.00	0	3	1	1	1	1	2	2	0	0	1	1	13		
SNOWFALL	SNOW,ICE PELLETS,HAIL	25.9	22.4	8.5	T	0.0	0.0	0.0	0.0	0.0	0.0	T	0.1	56.9	
	TOTAL (IN.)	13.5	10.4	4.7	T	0.0	0.0	0.0	0.0	0.0	0.0	T	0.1	13.5	
	GREATEST 24-HOUR (IN.)	21	13	17	15							27+	11	JAN 21	
	DATE OF OCCURRENCE	13	10	5	0	0	0	0	0	0	0	0	0	13	
	MAXIMUM SNOW DEPTH (IN.)	22	14	17										JAN 22	
	DATE OF OCCURRENCE														
	NUMBER OF DAYS WITH:														
SNOWFALL >= 1.0	5	5	2	0	0	0	0	0	0	0	0	0	12		

# NORMALS, MEANS, AND EXTREMES PHILADELPHIA (KPHL)

**LATITUDE:** 39° 52'N      **LONGITUDE:** 75° 13'W      **ELEVATION (FT):** GRND: 10 BARO: 62      **TIME ZONE:** EASTERN (UTC -5)      **WBAN: 13739**

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>TEMPERATURE °F</b>	NORMAL DAILY MAXIMUM	30	40.3	43.8	52.7	63.9	73.8	82.7	87.1	85.3	78.0	66.6	56.0	44.8	64.6
	MEAN DAILY MAXIMUM	67	39.7	42.6	51.7	63.6	73.5	82.2	86.8	84.8	77.8	66.7	55.3	44.2	64.1
	HIGHEST DAILY MAXIMUM	73	74	74	87	95	97	100	104	101	100	96	81	73	104
	YEAR OF OCCURRENCE		1950	1997	1945	2002	1991	1994	1966	2001	1953	1941	1993	1998	JUL 1966
	MEAN OF EXTREME MAXS.	67	60.2	61.7	73.1	83.6	88.8	93.8	96.1	94.1	90.4	81.9	72.4	63.3	80.0
	NORMAL DAILY MINIMUM	30	25.6	27.7	34.4	44.1	54.0	63.8	69.2	67.9	60.3	48.4	39.2	30.1	47.1
	MEAN DAILY MINIMUM	67	24.9	26.5	33.8	43.4	53.4	62.6	68.3	66.9	59.5	47.9	38.3	29.4	46.2
	LOWEST DAILY MINIMUM	73	-7	-4	7	19	28	44	51	44	35	25	15	1	-7
	YEAR OF OCCURRENCE		1984	1961	1984	1982	1966	1984	1966	1986	1963	1969	1976	1983	JAN 1984
	MEAN OF EXTREME MINS.	67	9.1	11.2	19.3	30.7	41.2	51.0	58.6	56.2	45.4	34.1	24.4	15.0	33.0
	NORMAL DRY BULB	30	33.0	35.7	43.5	54.0	63.9	73.3	78.1	76.6	69.1	57.5	47.6	37.5	55.8
	MEAN DRY BULB	67	32.3	34.6	42.7	53.5	63.5	72.6	77.5	75.9	68.7	57.3	46.8	36.8	55.2
	MEAN WET BULB	31	27.4	29.0	35.1	44.4	54.8	63.7	68.1	67.0	61.0	50.6	40.5	32.0	47.8
	MEAN DEW POINT	31	24.9	25.6	32.5	41.9	52.5	61.8	66.6	65.6	59.3	48.6	38.2	29.1	45.6
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.2	1.4	4.8	10.3	6.2	1.1	0.0	0.0	0.0	24.0
	MAXIMUM <= 32	30	6.7	3.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	13.2
MINIMUM <= 32	30	22.6	20.0	11.6	1.3	0.0	0.0	0.0	0.0	0.0	0.3	5.7	18.4	79.9	
MINIMUM <= 0	30	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	
<b>H/C</b>	NORMAL HEATING DEG. DAYS	30	993	819	665	343	112	11	0	1	37	255	523	854	4613
	NORMAL COOLING DEG. DAYS	30	0	0	1	12	78	258	408	360	161	22	1	0	1301
<b>RH</b>	NORMAL (PERCENT)	30	67	64	62	61	66	68	69	70	72	71	68	68	67
	HOURLY 01 LST	30	71	69	70	70	77	80	80	82	82	82	75	72	76
	HOURLY 07 LST	30	74	73	73	71	75	77	78	81	83	83	78	75	77
	HOURLY 13 LST	30	60	55	52	50	53	54	54	55	56	55	56	58	55
	HOURLY 19 LST	30	65	61	58	55	59	61	62	65	68	69	66	66	63
<b>S</b>	PERCENT POSSIBLE SUNSHINE	59	49	53	55	55	56	62	61	62	59	59	52	49	56
<b>W/O</b>	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	51	2.0	1.5	1.0	0.7	0.7	0.5	0.6	0.4	0.8	1.8	1.5	1.7	13.2
	THUNDERSTORMS	67	0.3	0.3	0.9	2.2	4.0	5.3	5.6	5.0	2.4	0.8	0.5	0.2	27.5
<b>CLOUDINESS</b>	MEAN: SUNRISE-SUNSET (OKTAS)														
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH: CLEAR	1	3.0	2.0	8.0		8.0	11.0							
	PARTLY CLOUDY			1.0	4.0		5.0	3.0							
CLOUDY	1	3.0	6.0	8.0		7.0	9.0								
<b>PR</b>	MEAN STATION PRESSURE(IN)	31	30.05	30.04	30.02	29.95	29.93	29.93	29.95	29.96	30.02	30.04	30.04	30.07	30.00
	MEAN SEA-LEVEL PRES. (IN)	31	30.08	30.07	30.05	29.98	29.99	29.96	29.98	30.02	30.06	30.07	30.10	30.09	30.04
<b>WINDS</b>	MEAN SPEED (MPH)	31	9.9	10.3	10.8	10.3	9.0	8.6	8.4	7.8	8.2	8.7	9.3	9.8	9.3
	PREVAIL.DIR(TENS OF DEGS)	51	30	31	30	24	24	24	23	23	24	24	30	30	24
	MAXIMUM 2-MINUTE: SPEED (MPH)	19	44	48	49	48	52	62	48	53	39	45	46	45	62
	DIR. (TENS OF DEGS)		18	28	24	33	28	33	26	25	32	24	27	27	33
	YEAR OF OCCURRENCE		2010	2011	2008	2011	2005	2010	2014	2011	1998	2003	2003	2000	JUN 2010
	MAXIMUM 3-SECOND SPEED (MPH)	19	62	63	56	56	69	75	66	62	49	68	58	53	75
	DIR. (TENS OF DEGS)		18	28	24	33	27	34	22	25	13	02	28	28	34
YEAR OF OCCURRENCE		2010	2011	2008	2011	2005	2010	2013	2011	2003	2012	2003	2000	JUN 2010	
<b>PRECIPITATION</b>	NORMAL (IN)	30	3.03	2.65	3.79	3.56	3.71	3.43	4.35	3.50	3.78	3.18	2.99	3.56	41.53
	MAXIMUM MONTHLY (IN)	72	8.86	6.44	7.33	9.05	7.41	10.56	13.25	19.31	13.07	8.68	9.06	8.86	19.31
	YEAR OF OCCURRENCE		1978	1979	2010	2007	1948	2013	2013	2011	1999	2005	1972	2009	AUG 2011
	MINIMUM MONTHLY (IN)	72	0.45	0.55	0.68	0.52	0.47	0.11	0.64	0.49	.21	0.09	0.32	0.25	0.09
	YEAR OF OCCURRENCE		1955	2002	1966	1985	1964	1949	1957	1964	2005	1963	1976	1955	OCT 1963
	MAXIMUM IN 24 HOURS (IN)	72	2.70	3.52	3.08	4.54	3.18	4.62	8.27	5.70	6.77	5.94	3.99	3.18	8.27
	YEAR OF OCCURRENCE		1979	2008	2000	2014	1984	1973	2013	2011	1999	2005	1977	2008	JUL 2013
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	10.6	9.4	10.5	11.3	11.1	9.8	9.9	8.4	8.7	8.6	9.3	10.6	118.2
PRECIPITATION >= 1.00	30	0.7	0.4	1.0	0.9	0.9	0.8	1.4	1.2	1.1	0.7	0.6	0.9	10.6	
<b>SNOWFALL</b>	NORMAL (IN)	30	6.5	8.8	2.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.4	22.4
	MAXIMUM MONTHLY (IN)	71	25.9	51.5	13.4	4.3	T	T	T	T	0.0	2.1	8.8	24.1	51.5
	YEAR OF OCCURRENCE		2014	2010	1958	1971	2010	1993	2008	2011		1979	1953	2009	FEB 2010
	MAXIMUM IN 24 HOURS (IN)	71	33.8	21.9	12.0	4.3	T	T	T	T	0.0	2.1	8.7	22.5	33.8
	YEAR OF OCCURRENCE		1996	2010	1993	1971	2010	1993	2006	2011		1979	1953	2009	JAN 1996
	MAXIMUM SNOW DEPTH (IN)	66	13	23	12	3	0	0	0	0	0	0	8	21	23
	YEAR OF OCCURRENCE		2014	2003	1993	1997							1953	2009	FEB 2003
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	1.6	1.8	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6	5.1	

**PRECIPITATION (inches) 2014 PHILADELPHIA (KPHL)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1985	1.55	2.44	1.95	0.52	4.99	1.88	4.66	2.82	5.78	1.54	6.09	0.98	35.20
1986	4.13	3.38	1.25	4.46	0.70	1.99	4.10	3.70	2.33	2.22	6.27	5.89	40.42
1987	4.58	1.17	1.16	3.63	3.15	2.01	4.82	3.72	2.78	2.62	2.08	1.68	33.40
1988	2.72	4.11	2.24	2.92	3.67	0.57	8.07	3.16	2.62	2.16	5.17	1.00	38.41
1989	2.41	3.25	4.41	2.27	6.76	4.73	9.44	3.92	5.03	3.44	1.79	1.21	48.66
1990	4.09	1.44	2.59	3.16	6.08	3.39	2.62	4.07	1.71	1.68	1.17	3.79	35.79
1991	4.10	0.75	4.13	2.81	1.82	3.36	4.79	3.86	3.58	1.61	1.55	3.86	36.22
1992	0.88	1.31	3.19	1.26	2.74	1.84	5.05	2.00	3.04	1.23	3.26	4.61	30.41
1993	1.97	3.03	6.61	4.20	2.42	1.52	1.98	5.18	6.66	2.69	2.23	3.69	42.18
1994	4.27	3.27	6.44	2.86	3.66	1.74	10.42	4.54	1.64	0.94	3.03	2.11	44.92
1995	3.10	2.41	1.67	1.96	2.67	0.62	2.92	1.15	3.55	5.99	3.34	2.15	31.53
1996	4.39	2.12	4.27	4.48	3.25	4.73	8.17	4.29	4.95	4.30	3.03	8.47	56.45
1997	2.80	2.48	3.91	2.58	2.32	1.49	2.38	4.56	1.59	1.83	3.49	3.09	32.52
1998	4.24	3.25	3.93	2.70	3.87	4.91	1.79	1.26	1.86	1.84	1.18	0.82	31.65
1999	4.89	2.95	4.02	3.31	3.70	1.16	1.22	5.32	13.07	3.55	2.31	2.99	48.49
2000	3.22	2.02	6.32	3.05	3.03	3.82	5.54	2.90	8.28	1.51	2.21	2.82	44.72
2001	2.77	3.04	5.44	1.49	3.99	5.93	1.30	0.97	2.58	0.83	0.56	2.11	31.01
2002	2.43	0.55	4.03	2.17	3.57	3.73	2.12	2.47	3.67	5.90	4.61	4.05	39.30
2003	1.93	5.04	4.09	2.20	4.17	8.08	2.01	3.26	4.66	4.45	2.63	5.46	47.98
2004	1.70	2.50	3.54	6.02	3.62	4.57	7.91	4.17	5.19	2.24	4.55	3.17	49.18
2005	4.45	2.61	3.66	5.32	1.27	3.31	4.31	2.57	0.21	8.68	2.86	2.97	42.22
2006	4.34	1.51	0.91	3.71	2.16	7.95	4.27	3.93	5.97	6.42	4.88	2.15	48.20
2007	3.35	1.73	3.82	9.05	2.68	4.02	3.44	2.94	0.58	4.66	1.45	4.41	42.13
2008	1.74	3.93	3.67	2.19	4.55	2.87	3.45	2.44	4.31	1.59	4.02	5.57	40.33
2009	2.70	0.84	1.62	3.99	4.84	4.79	3.35	10.29	3.65	5.51	2.06	8.86	52.50
2010	2.19	5.75	7.33	2.65	2.53	2.05	6.28	2.19	3.48	5.01	1.76	3.24	44.46
2011	3.39	2.65	4.29	5.29	1.91	2.56	2.71	19.31	10.27	3.71	3.87	4.37	64.33
2012	2.59	1.84	0.79	2.55	3.35	2.94	1.48	5.37	5.48	4.08	1.05	4.42	35.94
2013	3.34	2.12	2.42	2.32	2.33	10.56	13.25	5.91	3.26	2.45	2.73	5.20	55.89
2014	3.55	5.12	4.23	6.69	2.91	5.46	4.30	3.55	1.69	2.53	4.07	3.27	47.37
POR= 67 YRS	3.16	2.76	3.76	3.53	3.50	3.72	4.19	4.20	3.66	2.97	3.16	3.57	42.18

WBAN : 13739

**AVERAGE TEMPERATURE (°F) 2014 PHILADELPHIA (KPHL)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1985	27.3	35.3	44.6	55.5	64.5	68.8	75.4	74.1	69.1	59.3	51.3	33.3	54.9
1986	32.8	32.1	44.5	53.3	66.8	73.8	78.1	74.0	68.3	57.8	44.5	37.9	55.3
1987	31.9	32.5	45.7	53.1	63.9	74.6	79.5	75.4	68.8	52.5	48.0	39.2	55.4
1988	27.3	34.6	44.7	51.3	63.6	72.3	80.7	78.3	66.7	51.8	47.7	35.4	54.5
1989	36.5	34.8	42.3	52.4	62.4	74.7	76.3	75.6	69.7	58.3	44.9	25.5	54.5
1990	40.3	41.2	46.1	53.3	61.3	72.2	78.0	75.8	68.0	61.9	49.7	42.1	57.5
1991	35.2	40.0	46.1	55.5	70.8	75.7	79.0	79.0	69.5	58.9	47.3	39.6	58.1
1992	35.7	37.5	41.6	53.2	62.5	71.3	77.1	73.5	68.4	55.2	48.0	38.8	55.2
1993	38.2	31.9	39.8	54.2	66.4	74.4	81.4	78.9	69.7	58.0	49.0	38.4	56.7
1994	27.4	33.2	42.8	59.5	62.5	78.1	82.1	74.9	68.3	57.5	51.7	41.9	56.7
1995	38.2	31.5	47.3	54.5	64.3	74.3	81.5	79.9	70.4	61.4	43.0	31.6	56.5
1996	30.2	33.9	38.7	52.7	60.6	73.0	74.4	74.5	68.7	56.3	41.3	40.2	53.7
1997	32.5	40.0	44.1	51.4	59.5	71.1	77.5	73.9	67.1	57.3	44.4	38.5	54.8
1998	41.0	41.8	45.5	55.3	66.2	71.5	77.5	78.0	71.8	58.3	48.2	42.0	58.1
1999	35.0	38.0	42.4	53.5	64.0	72.9	81.2	77.4	69.9	56.1	50.9	39.9	56.8
2000	32.1	37.5	48.0	52.6	64.2	72.6	74.1	74.1	66.4	57.7	45.4	31.3	54.7
2001	32.5	37.4	41.1	54.9	64.7	75.2	75.4	79.9	68.4	59.1	52.9	43.7	57.1
2002	39.2	41.1	45.5	57.2	63.3	73.9	79.6	79.5	72.2	57.6	45.9	35.4	57.5
2003	28.6	29.9	44.9	52.6	60.6	71.3	78.8	78.3	70.1	56.0	50.8	36.8	54.9
2004	26.1	35.5	45.1	54.4	69.3	71.8	76.3	75.0	70.5	56.2	47.9	37.8	55.5
2005	31.8	36.1	39.5	55.3	59.6	74.8	78.9	79.7	73.8	58.8	49.3	34.4	56.0
2006	40.8	35.6	44.5	56.7	64.6	72.8	79.5	78.1	67.2	56.2	51.3	42.7	57.5
2007	38.2	28.0	43.7	50.8	66.1	73.8	77.3	77.0	72.0	64.5	45.7	37.7	56.2
2008	35.9	36.9	44.8	56.3	61.2	76.4	79.3	74.6	70.4	56.6	45.6	38.7	56.4
2009	29.1	37.1	43.7	55.6	65.0	71.1	75.9	78.2	68.0	56.4	50.9	36.4	55.6
2010	33.2	31.8	48.3	58.4	67.5	78.2	81.8	79.0	72.9	59.0	48.2	32.7	57.6
2011	29.3	37.3	44.1	56.8	67.4	75.5	82.4	76.1	71.2	57.7	51.4	43.3	57.7
2012	37.9	41.0	52.2	55.6	68.2	73.6	81.8	78.7	70.3	59.4	44.2	43.1	58.8
2013	36.4	35.1	41.2	54.8	64.8	74.6	80.6	74.6	68.0	60.6	45.5	38.7	56.2
2014	28.3	32.1	38.9	53.8	65.4	74.5	78.0	74.7	70.5	59.9	45.2	41.1	55.2
POR= 67 YRS	32.3	34.6	42.7	53.5	63.5	72.6	77.5	75.9	68.7	57.3	46.8	36.8	55.2

**HEATING DEGREE DAYS (base 65°F) 2014 PHILADELPHIA (KPHL)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1985-86	0	0	38	187	407	975	990	914	628	345	77	6	4567
1986-87	0	21	23	255	609	838	1017	904	591	359	129	1	4747
1987-88	0	0	20	379	504	796	1162	876	624	404	105	32	4902
1988-89	0	0	35	408	513	908	876	840	700	371	138	0	4789
1989-90	0	0	43	220	594	1219	757	662	588	375	127	6	4591
1990-91	2	1	55	171	453	701	920	694	576	296	44	0	3913
1991-92	0	0	42	215	527	778	903	789	720	356	124	9	4463
1992-93	0	1	49	310	504	804	824	920	773	314	47	6	4552
1993-94	0	0	34	219	479	820	1156	881	681	193	132	0	4595
1994-95	0	0	20	231	392	710	824	932	542	318	82	0	4051
1995-96	0	0	21	159	656	1029	1072	894	809	370	191	7	5208
1996-97	0	0	34	265	704	761	999	695	643	401	172	42	4716
1997-98	2	0	45	278	612	811	738	644	619	287	67	13	4116
1998-99	0	0	14	207	498	706	920	751	691	336	77	3	4203
1999-00	0	0	22	275	415	772	1012	792	519	371	107	15	4300
2000-01	0	0	73	230	584	1039	999	768	734	320	74	4	4825
2001-02	0	0	48	211	358	652	791	662	595	290	120	4	3731
2002-03	0	1	4	277	567	910	1123	975	618	373	157	25	5030
2003-04	0	0	11	284	421	870	1199	848	609	323	47	11	4623
2004-05	0	0	10	268	507	839	1021	803	780	297	170	5	4700
2005-06	0	0	7	221	463	941	743	816	628	251	82	2	4154
2006-07	0	0	34	281	404	683	824	1030	651	427	76	4	4414
2007-08	0	6	13	117	570	842	895	810	617	261	149	0	4280
2008-09	0	0	12	274	576	809	1107	774	653	320	79	15	4619
2009-10	0	0	19	269	417	881	979	924	508	217	76	0	4290
2010-11	0	0	0	199	495	992	1098	771	637	279	52	0	4523
2011-12	0	0	18	234	401	667	831	689	394	296	34	7	3571
2012-13	0	0	14	196	616	670	881	830	730	316	105	0	4358
2013-14	0	0	36	193	577	807	1131	912	801	339	54	0	4850
2014-	0	0	14	176	588	734							

WBAN : 13739

**COOLING DEGREE DAYS (base 65°F) 2014 PHILADELPHIA (KPHL)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1985	0	0	0	27	81	133	330	291	166	19	0	0	1047
1986	0	0	0	0	139	278	413	307	129	40	0	0	1306
1987	0	0	0	7	101	295	456	332	142	0	0	0	1333
1988	0	0	0	1	70	259	495	418	93	7	0	0	1343
1989	0	0	1	1	62	298	357	332	192	18	1	0	1262
1990	0	0	9	29	20	226	413	341	152	83	1	0	1274
1991	0	0	1	21	230	327	443	437	183	30	0	0	1672
1992	0	0	0	10	54	205	380	268	158	13	0	0	1088
1993	0	0	0	0	95	298	517	438	181	11	6	0	1546
1994	0	0	0	34	63	401	540	313	125	4	0	0	1480
1995	0	0	0	8	66	284	519	468	189	53	1	0	1588
1996	0	0	0	9	61	257	301	305	151	2	1	0	1087
1997	0	0	0	0	9	230	397	280	113	49	0	0	1078
1998	0	0	20	3	114	216	397	410	223	3	0	0	1386
1999	0	0	0	0	51	246	508	394	177	4	0	0	1380
2000	0	0	0	3	89	251	286	286	123	12	0	0	1050
2001	0	0	0	22	72	316	330	468	158	37	1	0	1404
2002	0	0	0	63	76	277	459	461	224	54	0	0	1614
2003	0	0	0	7	25	219	432	418	169	7	1	0	1278
2004	0	0	0	11	186	221	357	318	179	2	0	0	1274
2005	0	0	0	11	11	305	437	462	278	34	0	0	1538
2006	0	0	1	11	76	240	454	413	102	17	0	0	1314
2007	0	0	0	8	115	275	391	384	230	110	0	0	1513
2008	0	0	0	9	37	347	452	310	180	19	0	0	1354
2009	0	0	0	42	86	205	347	418	119	10	0	0	1227
2010	0	0	0	25	162	404	527	441	244	19	0	0	1822
2011	0	0	0	40	133	321	547	354	208	14	0	0	1617
2012	0	0	4	20	140	270	527	430	181	31	0	0	1603
2013	0	0	0	17	107	294	492	306	130	65	0	0	1411
2014	0	0	0	9	74	292	412	311	188	25	0	0	1311

**SNOWFALL (inches) 2014 PHILADELPHIA (KPHL)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1985-86	0.0	0.0	0.0	0.0	0.0	1.5	3.4	11.5	T	T	0.0	0.0	16.4
1986-87	0.0	0.0	0.0	0.0	T	0.4	15.2	10.1	T	T	0.0	0.0	25.7
1987-88	0.0	0.0	0.0	0.0	1.4	1.5	10.6	1.5	T	0.0	0.0	0.0	15.0
1988-89	0.0	0.0	0.0	0.0	0.0	0.4	6.0	2.4	2.4	0.0	0.0	0.0	11.2
1989-90	0.0	0.0	0.0	0.0	4.6	5.3	1.4	0.9	2.4	2.4	0.0	0.0	17.0
1990-91	0.0	0.0	0.0	0.0	0.0	6.4	6.5	1.0	0.7	0.0	0.0	0.0	14.6
1991-92	0.0	0.0	0.0	0.0	T	T	1.2	1.0	2.5	T	0.0	0.0	4.7
1992-93	0.0	0.0	0.0	0.0	T	T	1.0	10.9	12.4	T	0.0	T	24.3
1993-94	0.0	0.0	0.0	0.0	T	0.9	4.1	13.2	4.9	0.0	0.0	0.0	23.1
1994-95	0.0	0.0	0.0	0.0	T	0.0	T	9.8	T	0.0	0.0	0.0	9.8
1995-96	0.0	0.0	0.0	0.0	1.9	7.3	33.8	12.9	7.2	2.4	0.0	0.0	65.5
1996-97	0.0	0.0	0.0	0.0	T	T	1.7	4.1	5.5	1.6	0.0	0.0	12.9
1997-98	0.0	0.0	0.0	0.0	T	0.2	0.5	T	0.1	0.0	0.0	T	0.8
1998-99	0.0	0.0	0.0	0.0	0.0	2.0	4.9	0.7	4.9	0.0	0.0	0.0	12.5
1999-00	0.0	0.0	0.0	0.0	0.0	T	13.7	5.7	0.0	1.6	T	0.0	21.0
2000-01	0.0	0.0	0.0	0.0	0.0	10.5	3.8	10.0	1.8	T	0.0	0.0	26.1
2001-02	0.0	0.0	0.0	0.0	0.0	0.0	4.0	T	T	T	0.0	0.0	4.0
2002-03	0.0	0.0	0.0	T	T	8.4	6.3	29.6	0.2	1.8	0.0	0.0	46.3
2003-04	0.0	0.0	0.0	0.0	T	6.0	7.6	0.4	3.7	0.3	0.0	0.0	18.0
2004-05	0.0	0.0	0.0	0.0	0.0	0.4	15.6	12.9	1.5	0.0	0.0	0.0	30.4
2005-06	0.0	0.0	0.0	0.0	T	7.0	0.4	12.0	T	0.1	0.0	0.0	19.5
2006-07	T	0.0	0.0	0.0	0.0	T	2.2	6.5	4.7	T	0.0	0.0	13.4
2007-08	0.0	0.0	0.0	0.0	0.0	1.6	1.0	3.7	T	0.0	0.0	0.0	6.3
2008-09	T	0.0	0.0	0.0	1.0	0.4	4.1	8.4	9.0	0.0	0.0	0.0	22.9
2009-10	0.0	0.0	0.0	0.0	0.0	24.1	3.1	51.5	T	0.0	T	0.0	78.7
2010-11	0.0	0.0	0.0	0.0	T	12.7	25.2	6.1	T	T	0.0	0.0	44.0
2011-12	0.0	T	0.0	0.3	0.0	0.0	2.5	1.2	T	0.0	0.0	0.0	4.0
2012-13	0.0	0.0	0.0	0.0	T	0.4	3.9	2.7	1.3	0.0	0.0	0.0	8.3
2013-14	0.0	0.0	0.0	0.0	T	11.2	25.9	22.4	8.5	T	0.0	0.0	68.0
2014-	0.0	0.0	0.0	0.0	T	0.1							
POR= 67 YRS	T	T	0.0	T	0.5	3.6	7.0	7.6	3.4	0.4	T	T	22.5

WBAN : 13739

**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: <a href="http://www.ncdc.noaa.gov/homr/">http://www.ncdc.noaa.gov/homr/</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 "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p>
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# 2014 PHILADELPHIA PENNSYLVANIA (KPHL)

The Appalachian Mountains to the west and the Atlantic Ocean to the east have a moderating effect on climate. Periods of very high or very low temperatures seldom last for more than three or four days. Temperatures below zero or above 100 degrees are a rarity. On occasion, the area becomes engulfed with maritime air during the summer months, and high humidity adds to the discomfort of seasonably warm temperatures.

Precipitation is fairly evenly distributed throughout the year with maximum amounts during the late summer months. Much of the summer rainfall is from local thunderstorms and amounts vary in different areas of the city. This is due, in part, to the higher elevations to the west and north. Snowfall amounts are often considerably larger in the northern suburbs than in the central and southern parts of the city. In many cases, the precipitation will change from snow to rain within the city. Single storms of 10 inches or more occur about every five years.

The prevailing wind direction for the summer months is from the southwest, while northwesterly winds prevail during the winter. The annual prevailing direction is from the west-southwest. Destructive velocities are comparatively rare and occur mostly in gustiness during summer thunderstorms. High winds occurring in the winter months, as a rule, come with the advance of cold air after the passage of a deep low pressure system. Only rarely have hurricanes in the vicinity caused widespread damage, primarily because of flooding.

Flood stages in the Schuylkill River normally occur about twice a year. Flood stages seldom last over 12 hours and usually occur after excessive thunderstorms. Flooding rarely occurs on the Delaware River.

# Station History

PHILADELPHIA, PA

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
PHILADELPHIA INTL AP	1995-12-01	2011-09-15	39° 52'	-75° 13'	10		ASOS, COOP
PHILADELPHIA INTL AP	1945-12-01	1948-01-01	39° 52'	-75° 13'			AIRWAYS
PHILADELPHIA SOUTHWEST AP	1940-07-01	1945-12-01	39° 52'	-75° 13'			AIRWAYS
PHILADELPHIA INTL AP	1981-12-31	1995-12-01	39° 52'	-75° 15'	10		COOP
PHILADELPHIA INTL AP	1973-01-01	1981-12-31	39° 52'	-75° 15'	10		COOP, WXSVC
PHILADELPHIA INTL AP	1948-01-01	1954-12-22	39° 52'	-75° 13'	26		AIRWAYS, COOP
PHILADELPHIA INTL AP	1954-12-22	1973-01-01	39° 52'	-75° 15'	10	UN UN	AIRWAYS, COOP
PHILADELPHIA INTL AP	2011-09-15	Present	39° 52'	-75° 13'	10		ASOS, COOP

# Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	1940-07-01	1982-01-01	DAILY	2400	UNIV	RCRD	
PRECIP	1995-12-01	2003-09-08	DAILY	2400	UNIV	RCRD	
PRECIP	2003-09-08	2009-07-30	HOURLY	2400	TB	RCRD	
WIND	1995-12-01	2003-09-08	HOURLY	UNKN	ANEMCUP		
TEMP	1982-01-01	1995-07-01	DAILY	2400	HYGR		
PRECIP	1995-07-01	1995-12-01	HOURLY	2400	UNIV	RCRD	
TEMP	2009-07-30	2011-09-15	DAILY	2400	HYGR		
PRECIP	2011-09-15	Present	DAILY	2400	PCPNX		
PRECIP	1982-01-01	1995-07-01	HOURLY	2400			
PRECIP	1995-12-01	2003-09-08	HOURLY	2400	UNIV	RCRD	
PRECIP	2003-09-08	2009-07-30	DAILY	2400	TB	RCRD	
PRECIP	2009-07-30	2011-09-15	HOURLY	2400	TB	RCRD	
TEMP	1940-07-01	1982-01-01	DAILY	2400	HYGR		
PRECIP	2009-07-30	2011-09-15	DAILY	2400	TB	RCRD	
PRECIP	2011-09-15	Present	HOURLY	2400	AHTB	RCRD;HTD	
WIND	2011-09-15	Present	HOURLY	UNKN	ANEMSONIC		
PRECIP	1982-01-01	1995-07-01	DAILY	2400	UNIV	RCRD	
TEMP	1995-07-01	1995-12-01	DAILY	2400	HYGR		
WIND	2009-07-30	2011-09-15	HOURLY	UNKN	ANEMSONIC		
PRECIP	1995-07-01	1995-12-01	DAILY	2400	UNIV	RCRD	
WIND	2003-09-08	2009-07-30	HOURLY	UNKN	ANEMCUP		
WIND	2011-09-15	Present	DAILY	2400	REMOTE		
TEMP	2011-09-15	Present	DAILY	2400	ATEMP		
TEMP	1995-12-01	2003-09-08	DAILY	2400	HYGR		
TEMP	2003-09-08	2009-07-30	DAILY	2400	HYGR		

\* 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/asos2implementation.htm>

Station Metadata website: <http://www.ncdc.noaa.gov/homr>

INQUIRES/COMMENTS CALL: (828) 271-4800, option 2

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TDD : (828) 271-4010

Email : [ncdc.orders@noaa.gov](mailto:ncdc.orders@noaa.gov)

NOAA/National Climatic Data Center

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151 Patton Avenue

Asheville, NC 28801-5001

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