

2005

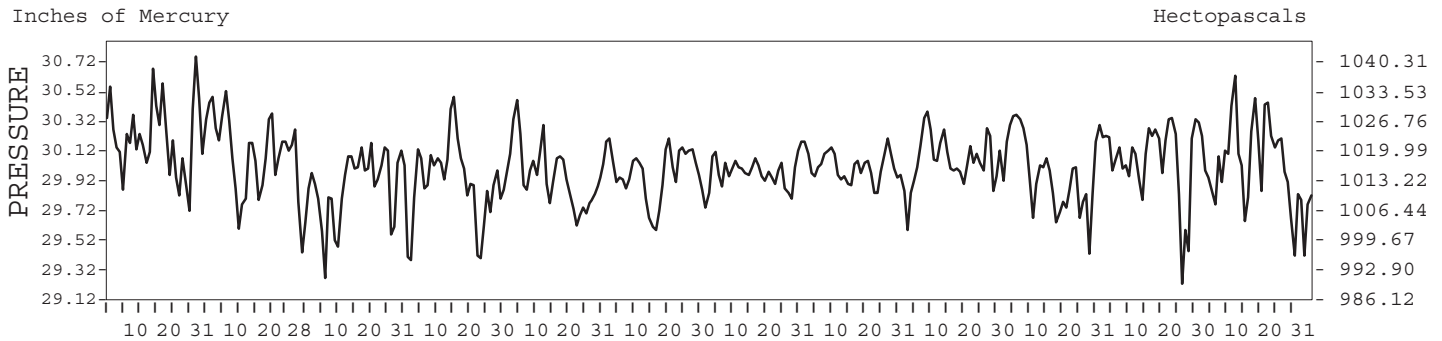
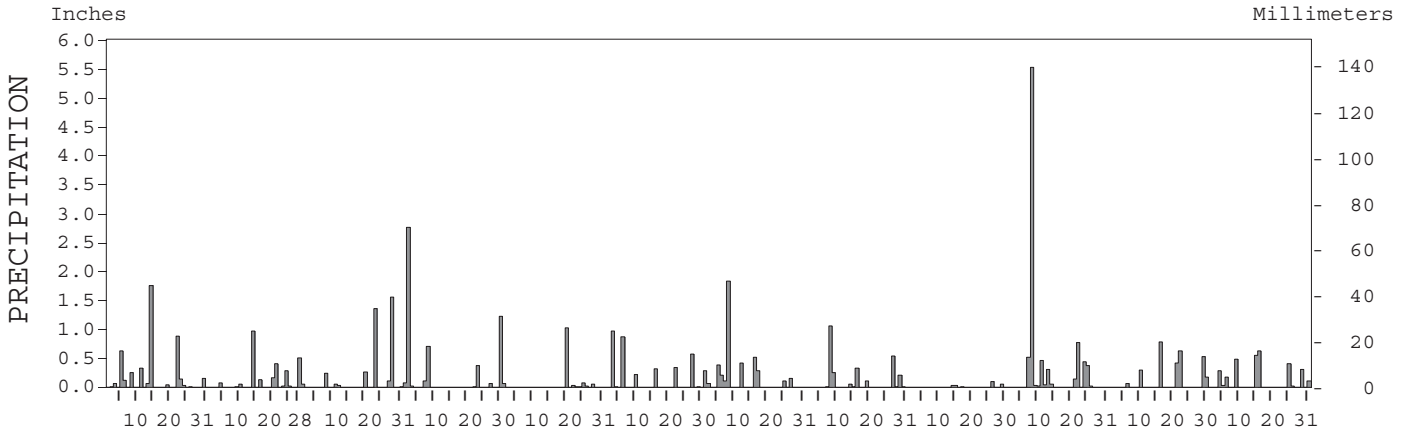
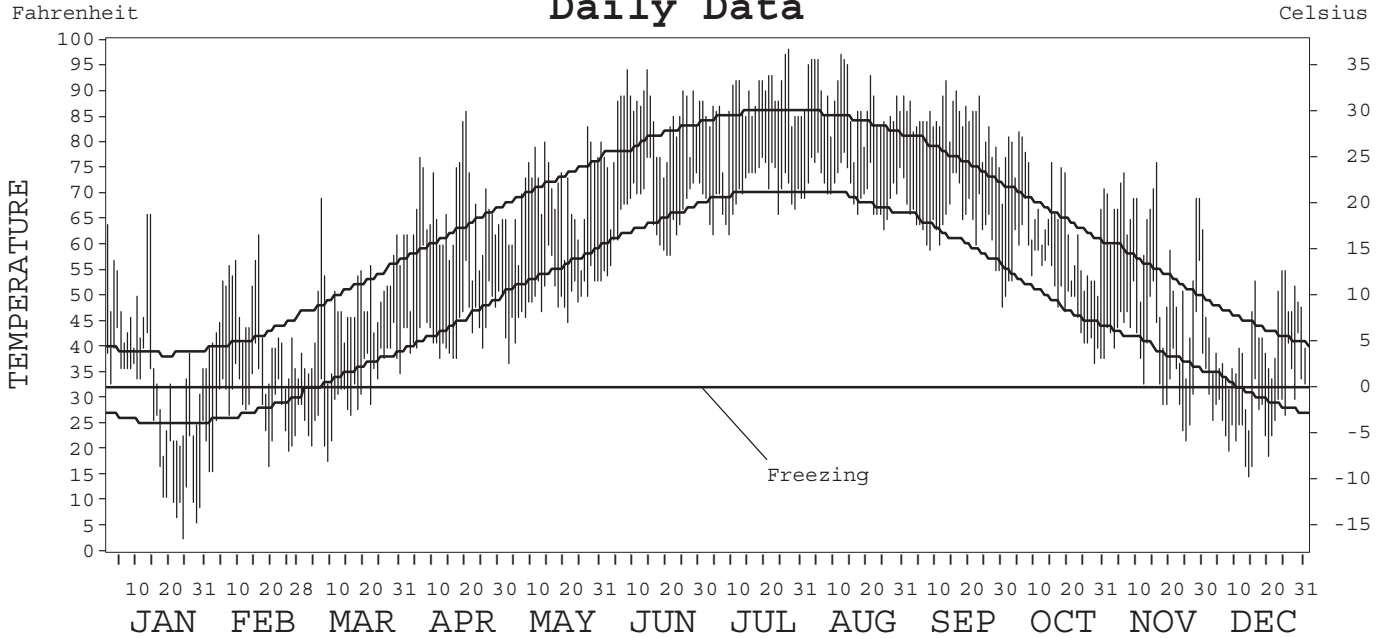
LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-4535

PHILADELPHIA,
PENNSYLVANIA (PHL)

Daily Data



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Thomas R. Karl

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE	NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA	DIRECTOR NATIONAL CLIMATIC DATA CENTER
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METEOROLOGICAL DATA FOR 2005

PHILADELPHIA, PA (PHL)

LATITUDE: 39° 52' 06" N LONGITUDE: 75° 13' 52" 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	38.5	44.1	47.7	66.0	69.6	83.7	87.5	88.0	83.5	66.2	59.0	41.2	64.6	
	HIGHEST DAILY MAXIMUM	66	62	69	86	83	94	98	97	92	82	76	55	98	
	DATE OF OCCURRENCE	14+	16	07	20	27	14+	27	12	13	05	16	25+	JUL 27	
	MEAN DAILY MINIMUM	25.1	28.1	31.3	44.5	49.6	65.8	70.2	71.3	64.1	51.3	39.5	27.5	47.4	
	LOWEST DAILY MINIMUM	3	16	18	38	37	54	62	63	48	37	22	15	3	
	DATE OF OCCURRENCE	24	02+	09	17+	03	02	09+	25	30	28	25	14	JAN 24	
	AVERAGE DRY BULB	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	
	MEAN WET BULB	28.9	31.5	34.1	46.9	51.4	66.7	70.4	70.5	63.7	53.4	43.8	30.3	49.3	
	MEAN DEW POINT	21.5	22.7	24.3	36.8	43.0	62.1	65.8	65.7	56.9	48.1	35.8	21.9	42.0	
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	0	5	12	10	2	0	0	0	0	29
	MAXIMUM ≤ 32°	10	2	0	0	0	0	0	0	0	0	0	3	15	
MINIMUM ≤ 32°	17	21	18	0	0	0	0	0	0	0	7	24	87		
MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	1021	803	780	297	170	5	0	0	7	221	463	941	4708	
	COOLING DEGREE DAYS	0	0	0	11	11	305	437	462	278	34	0	0	1538	
RH	MEAN (PERCENT)	67	61	57	54	58	68	68	66	59	71	61	62	63	
	HOUR 01 LST	71	68	65	66	73	79	79	78	72	81	70	67	72	
	HOUR 07 LST	73	71	68	62	66	77	77	77	75	81	72	72	73	
	HOUR 13 LST	61	51	48	40	42	53	52	50	43	58	46	51	50	
	HOUR 19 LST	62	55	52	48	49	60	62	61	51	68	56	58	57	
S	PERCENT POSSIBLE SUNSHINE			50	63	56	60			74	41		51		
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	3	3	0	0	0	0	1	0	0	0	0	1	8	
	THUNDERSTORMS	0	1	1	2	1	4	8	4	0	0	2	0	23	
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.)	30.20	30.11	29.85	29.90	29.94	29.96	29.97	29.98	30.07	29.98	30.03	30.00	30.00	
	MEAN SEA-LEVEL PRESS. (IN.)	30.23	30.13	29.88	29.92	29.97	29.99	30.00	30.01	30.09	30.00	30.06	30.03	30.03	
WINDS	RESULTANT SPEED (MPH)	4.7	3.7	4.8	1.8	1.8	2.1	1.1	1.7	1.1	3.6	4.3	5.5	2.3	
	RES. DIR. (TENS OF DEGS.)	34	32	30	22	33	22	27	23	28	35	25	29	29	
	MEAN SPEED (MPH)	9.7	9.0	10.6	10.3	9.1	9.0	7.6	7.6	7.7	9.8	9.6	9.1	9.1	
	PREVAIL.DIR. (TENS OF DEGS.)	34	36	29	21	35	19	12	19	20	04	20	29	29	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	35	33	38	33	52	38	33	29	29	35	38	39	52	
	DIR. (TENS OF DEGS.)	33	35	32	20	28	32	32	01	31	20	31	27	28	
	DATE OF OCCURRENCE	14	16	08	03	28	06	27	14	29	07	24	02	MAY 28	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	44	40	47	41	69	45	38	36	33	41	44	45	69	
DIR. (TENS OF DEGS.)	34	35	32	30	27	32	32	01	31	18	32	27	27		
DATE OF OCCURRENCE	14	16+	08	28+	28	06	27	14	29	07	24	02	MAY 28		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	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	
	GREATEST 24-HOUR (IN.)	1.81	0.97	1.66	2.82	1.16	0.98	1.93	1.31	0.09	5.94	1.03	1.18	5.94	
	DATE OF OCCURRENCE	13-14	14	27-28	01-02	30-01	03-04	07-08	08-09	26	07-08	21-22	15-16	OCT 07-08	
	NUMBER OF DAYS WITH:														
PRECIPITATION ≥ 0.01	14	11	9	9	8	8	11	11	5	13	7	10	116		
PRECIPITATION ≥ 0.10	8	6	5	5	1	6	10	6	0	8	6	8	69		
PRECIPITATION ≥ 1.00	1	0	2	2	1	0	1	1	0	1	0	0	9		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	15.6	12.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	7.0	37.0	
	GREATEST 24-HOUR (IN.)	10.8	4.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	3.3	10.8	
	DATE OF OCCURRENCE	22	28	01								24	06	JAN 22	
	MAXIMUM SNOW DEPTH (IN.)	12	6	5	0	0	0	0	0	0	0	0	4	12	
	DATE OF OCCURRENCE	24+	01	01									06	JAN 24+	
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0	4	4	1	0	0	0	0	0	0	0	0	2	11		

PRECIPITATION (inches) 2005 PHILADELPHIA, PA (PHL)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1976	4.50	1.66	2.38	2.06	4.35	3.42	4.04	2.17	2.44	4.30	0.32	1.63	33.27
1977	2.61	1.33	4.19	5.59	0.70	5.33	1.47	8.70	3.44	3.11	7.76	5.19	49.42
1978	8.86	1.35	4.31	1.76	6.01	1.75	5.27	6.04	1.59	1.20	2.20	5.61	45.95
1979	8.74	6.44	2.43	4.08	3.98	4.34	3.95	5.95	4.89	3.84	2.48	1.67	52.79
1980	2.27	0.96	7.01	4.79	3.22	1.73	6.58	0.80	2.79	5.03	2.85	0.77	38.80
1981	0.50	2.94	1.61	3.60	4.53	4.40	4.54	5.11	2.83	2.68	0.95	4.14	37.83
1982	4.45	3.16	2.66	6.06	4.47	5.76	1.94	2.20	2.32	1.94	3.67	1.80	40.43
1983	2.81	3.53	6.70	8.12	7.03	2.75	0.68	2.57	3.45	3.69	5.71	7.37	54.41
1984	2.22	2.81	6.14	4.25	6.87	2.85	6.99	3.28	1.96	2.56	1.56	2.17	43.66
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
POR= 134 YRS	3.24	3.03	3.63	3.37	3.46	3.60	4.22	4.23	3.36	2.78	3.11	3.16	41.19

WBAN : 13739

AVERAGE TEMPERATURE (°F) 2005 PHILADELPHIA, PA (PHL)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1976	28.7	40.9	46.3	56.6	62.7	75.2	75.3	74.8	67.3	52.5	39.9	30.3	54.2
1977	20.0	33.6	48.8	57.2	65.8	68.6	77.8	76.2	69.9	54.3	46.4	32.6	54.3
1978	28.0	24.7	39.0	50.6	61.4	72.6	75.6	79.2	68.5	55.5	47.9	38.6	53.5
1979	32.5	23.0	47.0	52.3	66.4	69.1	76.2	75.5	68.5	54.9	50.1	38.2	54.5
1980	31.8	29.7	40.2	54.7	65.4	70.6	78.5	80.0	72.2	54.9	43.2	32.5	54.5
1981	25.3	37.9	40.0	54.7	62.6	72.0	76.9	74.9	66.8	53.1	45.6	34.6	53.7
1982	24.7	34.4	41.7	50.2	65.9	68.7	76.9	73.5	67.6	56.9	48.4	41.3	54.2
1983	34.1	34.0	43.7	51.0	62.1	72.0	77.9	77.1	69.0	56.6	46.7	33.2	54.8
1984	26.2	38.7	35.5	50.2	60.2	73.0	73.9	75.2	64.7	61.2	44.4	41.9	53.8
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
POR= 132 YRS	32.9	34.1	41.9	52.4	63.2	71.9	76.8	74.9	68.4	57.3	46.4	36.4	54.7

HEATING DEGREE DAYS (base 65°F) 2005 PHILADELPHIA, PA (PHL)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1976-77	0	2	42	387	743	1069	1390	873	505	258	73	36	5378
1977-78	0	0	24	328	558	998	1139	1121	797	423	161	10	5559
1978-79	5	0	41	296	507	811	999	1170	556	378	38	17	4818
1979-80	4	7	28	324	439	823	1021	1016	763	301	72	17	4815
1980-81	0	0	22	320	646	999	1222	752	768	309	129	4	5171
1981-82	0	0	58	364	576	936	1243	850	714	440	50	25	5256
1982-83	0	8	31	277	497	730	951	861	653	423	128	2	4561
1983-84	0	0	70	283	540	981	1196	756	911	438	181	13	5369
1984-85	0	0	92	138	613	709	1161	824	627	306	89	9	4568
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-	0	0	7	221	463	941							

WBAN : 13739

COOLING DEGREE DAYS (base 65°F) 2005 PHILADELPHIA, PA (PHL)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1976	0	0	0	64	58	326	326	315	115	7	0	0	1211
1977	0	0	10	32	104	150	402	355	175	3	6	0	1237
1978	0	0	0	0	57	244	338	447	153	8	0	0	1247
1979	0	0	6	5	90	146	357	339	137	16	1	0	1097
1980	0	0	0	0	89	194	428	470	244	10	0	0	1435
1981	0	0	0	9	62	224	373	315	119	1	0	0	1103
1982	0	0	0	3	85	142	376	280	115	31	5	0	1037
1983	0	0	0	11	43	217	409	380	199	27	0	0	1286
1984	0	0	0	0	39	260	283	324	90	30	0	0	1026
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

SNOWFALL (inches) 2005 PHILADELPHIA, PA (PHL)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1976-77	0.0	0.0	0.0	0.0	T	2.8	15.7	0.2	T	0.0	0.0	0.0	18.7
1977-78	0.0	0.0	0.0	0.0	0.2	0.2	23.4	19.0	12.1	T	0.0	0.0	54.9
1978-79	0.0	0.0	0.0	0.0	2.5	T	10.1	27.6	T	T	0.0	0.0	40.2
1979-80	0.0	0.0	0.0	2.1	T	4.9	6.1	0.4	7.4	T	0.0	0.0	20.9
1980-81	0.0	0.0	0.0	0.0	0.2	1.4	5.0	T	8.8	0.0	0.0	0.0	15.4
1981-82	0.0	0.0	0.0	0.0	T	2.8	14.0	3.5	1.1	4.0	0.0	0.0	25.4
1982-83	0.0	0.0	0.0	0.0	0.0	6.8	0.2	26.1	0.9	1.9	0.0	0.0	35.9
1983-84	0.0	0.0	0.0	0.0	0.8	T	10.5	T	10.3	T	0.0	0.0	21.6
1984-85	0.0	0.0	0.0	0.0	T	0.2	11.9	4.4	T	T	0.0	0.0	16.5
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-	0.0	0.0	0.0	0.0	T	7.0							
POR= 62 YRS	0.0	0.0	0.0	0.0	0.7	3.3	6.2	6.7	3.2	0.3	T	T	20.4

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. 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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2005
PHILADELPHIA,
PENNSYLVANIA (PHL)

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 LOCATION

PHILADELPHIA, 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										
							GROUND	WIND	EXTREME	PSYCHROMETER	SUNSHINE	TIPPING GAUGE	WEIGHING	8 INCH	HYGRO THERMOMETER		
*NOTES: <u>AIRPORT</u>																	
Administration Building Southwest Airport #	6/20/40	6/22/45		39°53'	75°14'	13	a58	6	5				b3	3			a. 57 feet through 1942. b. Installed 1/1/43. #. Name changed to International Airport 4/1/48.
Administration Building N. Philadelphia Airport	6/23/45	11/30/45	18 mi. NE	40°05'	75°01'	100	51	6	5					4			
Administration Building International Airport	12/01/45	12/22/54	18 mi. SW	39°53'	75°14'	13	58	6	*22	*22			3	3			* - Changed to roof exposure 10/4/54. WB design wind equipment installed 5/17/49.
New Terminal Building International Airport	12/23/54	5/09/55	7/8 mi. SW	39°53'	75°15'	13	120	67	66				64	64			c. Telepsychrometer (7') 5/9/55-12/31/59. Hygro. comm. 3000' S of tele. site 12/31/59.
New Terminal Building International Airport	5/09/55	12/31/59	0.2 mi. N	39°53'	75°15'	13	120	7	66		3	4	3				d. Removed prior to 12/1968. e. 4 feet to 7/13/70.
New Terminal Building International Airport	1/01/60	12/01/95	NA	39°53'	75°15'	5	20	d4	d55	%	e64	e64	NA	c4	NA		% - Commissioned 6/16/69.
International Airport	12/01/95	Present	NA	39°52'	75°14'	f59									S		ASOS Commissioned 12/01/95 f. Ground elevation.

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* NOTES: For earlier station history see previous edition.