

2005

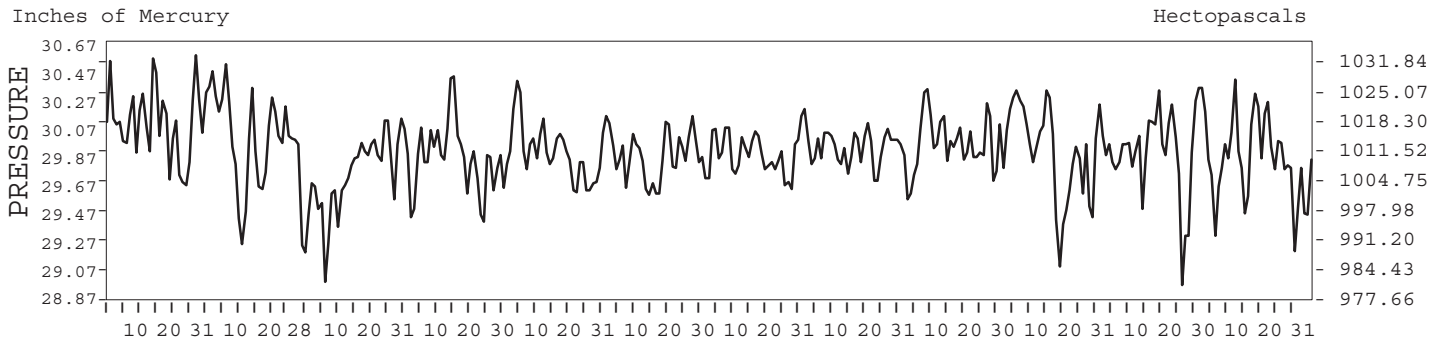
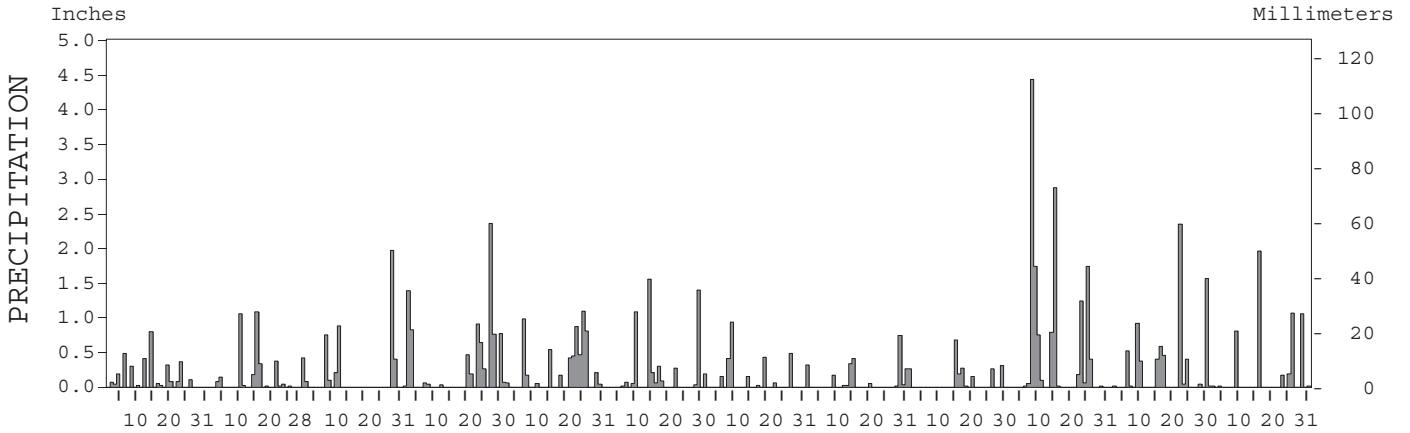
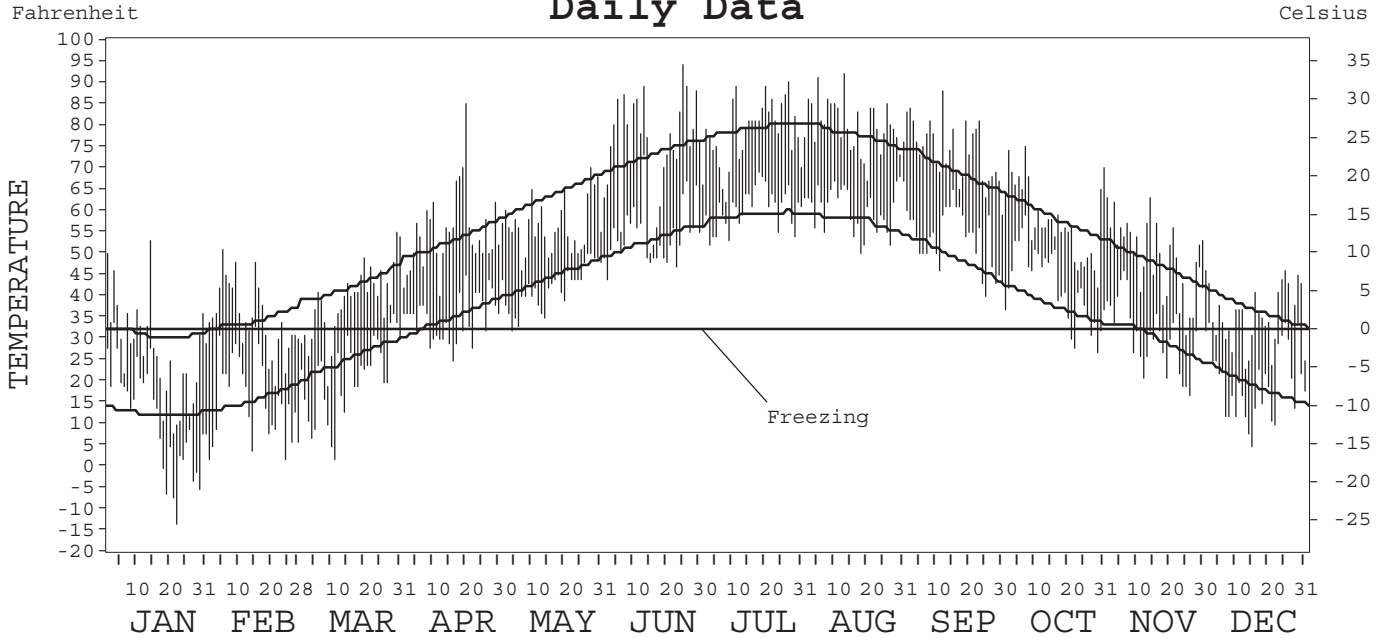
LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-2370

PORTLAND,
MAINE (PWM)

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

PORTLAND, ME (PWM)

LATITUDE: 43° 38' 32" N LONGITUDE: 70° 18' 16" W ELEVATION (FT.): GRND: 69 BARO: 72 TIME ZONE: EASTERN (UTC + 5) WBAN: 14764

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	27.2	34.8	38.9	55.1	56.6	74.9	78.3	79.8	73.8	57.8	49.6	35.4	55.2	
	HIGHEST DAILY MAXIMUM	53	51	55	85	70	94	90	92	88	75	63	46	94	
	DATE OF OCCURRENCE	14	05	30	20	28	25	27	13	12	07	14+	25+	JUN 25	
	MEAN DAILY MINIMUM	11.5	16.1	21.2	34.9	42.0	54.4	60.4	60.5	53.4	42.4	31.8	20.1	37.4	
	LOWEST DAILY MINIMUM	-13	2	2	25	32	44	52	50	40	27	17	5	-13	
	DATE OF OCCURRENCE	22	24+	11	16	04	02	03	18	25	29	26	15	JAN 22	
	AVERAGE DRY BULB	19.4	25.5	30.1	45.0	49.3	64.7	69.4	70.2	63.6	50.1	40.7	27.8	46.3	
	MEAN WET BULB	17.7	23.4	27.0	39.8	45.7		64.0	64.6	58.8			25.5		
	MEAN DEW POINT	9.6	15.9	19.0	31.6	41.3		60.4	61.1	54.8			18.8		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	0	1	1	2	0	0	0	0	0	4
MAXIMUM ≤ 32°	21	12	6	0	0	0	0	0	0	0	1	10	50		
MINIMUM ≤ 32°	30	27	28	12	1	0	0	0	0	5	17	28	148		
MINIMUM ≤ 0°	7	0	0	0	0	0	0	0	0	0	0	0	7		
H/C	HEATING DEGREE DAYS	1410	1099	1074	596	477	100	17	8	85	454	723	1146	7189	
	COOLING DEGREE DAYS	0	0	0	0	0	97	159	174	52	2	0	0	484	
RH	MEAN (PERCENT)	66	67	64	65	78	79	75	76	75	81	73	69	72	
	HOUR 01 LST	70	74	71	72	86	87	87	88	85	88	78	74	80	
	HOUR 07 LST	71	78	73	70	81	82	80	83	82	88	83	76	79	
	HOUR 13 LST	58	53	53	52	68	68	62	59	61	70	64	59	61	
	HOUR 19 LST	66	66	62	65	77	78	73	77	77	81	72	65	72	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	8	2	5	2	3	7	4	3	3	4	3	2	46	
	THUNDERSTORMS	0	0	0	0	0	6	2	2	2	0	0	0	12	
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.)	30.13	30.02	29.72	29.88	29.91	29.89	29.91	29.93	29.98	29.92	29.93	29.84	29.92	
	MEAN SEA-LEVEL PRESS. (IN.)	30.20	30.09	29.79	29.95	29.97	29.96	29.97	30.00	30.05			29.91		
WINDS	RESULTANT SPEED (MPH)	5.2	3.5	4.0	0.5	3.9	1.7	1.4	2.1	2.1	3.1	3.0	4.2	1.6	
	RES. DIR. (TENS OF DEGS.)	34	33	31	10	03	14	23	20	24	35	26	30	31	
	MEAN SPEED (MPH)	7.9	7.4	8.5	9.4	8.7	6.7	6.9	6.3	6.7	8.9	7.9	7.7	7.8	
	PREVAIL. DIR. (TENS OF DEGS.)	34	30	31	19	01	08	19	19	19	27	23	28	19	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	36	32	40	31	39	24	24	25	28	31	33	30	40	
	DIR. (TENS OF DEGS.)	01	35	31	07	07	25	33	22	27	27	27	09	31	
	DATE OF OCCURRENCE	23	10	09	28+	23	29	19	09	29	16	07	16	MAR 09	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	47	40	53	37	51	33	30	33	39	43	38	39	53	
DIR. (TENS OF DEGS.)	36	35	32	13	08	25	33	23	17	02	28	10	32		
DATE OF OCCURRENCE	23	10	09	24	23	29	19	09	29	25	07	16	MAR 09		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	3.33	3.34	4.81	8.72	6.40	5.12	2.83	2.37	2.13	14.38	7.67	5.30	66.40	
	GREATEST 24-HOUR (IN.)	0.80	1.26	2.30	3.01	1.09	1.56	1.31	0.74	0.68	5.05	2.35	1.96	5.05	
	DATE OF OCCURRENCE	14	14-15	28-29	27-28	25	14-15	08-09	29	15	08-09	22	16	OCT 08-09	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	15	12	8	14	15	12	9	11	8	15	13	10	142	
PRECIPITATION ≥ 0.10	8	6	7	10	11	6	7	6	7	10	9	6	93		
PRECIPITATION ≥ 1.00	0	2	1	2	1	3	0	0	0	5	2	3	19		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	37.3	23.5	32.5	T	0.0	0.0	0.0	0.0	0.0	0.0	2.3	20.4	116.0	
	GREATEST 24-HOUR (IN.)	7.3	9.0	9.5	T	0.0	0.0	0.0	0.0	0.0	0.0	1.0	13.9	13.9	
	DATE OF OCCURRENCE	23	10	12	13+							24+	09	DEC 09	
	MAXIMUM SNOW DEPTH (IN.)	17	15	28	0	0	0	0	0	0	0	T	14	28	
	DATE OF OCCURRENCE	23	12+	13								27+	10+	MAR 13	
	NUMBER OF DAYS WITH:														
SNOWFALL ≥ 1.0	8	5	5	0	0	0	0	0	0	0	2	3	23		

NORMALS, MEANS, AND EXTREMES

PORTLAND, ME (PWM)

LATITUDE: 43° 38' 32" N LONGITUDE: 70° 18' 16" W ELEVATION (FT): GRND: 69 BARO: 72 TIME ZONE: EASTERN (UTC + 5) WBAN: 14764

Table with columns: ELEMENT, POR, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, OCT, NOV, DEC, YEAR. Rows include Temperature (°F), H/C, RH, S, W/O, CLOUDINESS, PR, WINDS, PRECIPITATION, and SNOWFALL.

PRECIPITATION (inches) 2005 PORTLAND, ME (PMM)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1976	4.44	2.84	2.47	2.42	3.99	1.53	7.48	4.87	1.86	5.37	0.90	3.22	41.39
1977	6.46	3.75	6.92	3.46	2.04	3.38	2.83	2.79	4.63	8.30	6.46	6.61	57.63
1978	6.91	0.87	4.19	4.46	4.36	2.42	1.67	2.36	0.59	3.23	2.26	3.15	36.47
1979	11.92	3.50	4.17	6.48	5.15	1.97	5.90	5.53	3.28	6.71	3.95	2.59	61.15
1980	0.98	1.36	4.54	5.78	1.83	3.34	1.99	2.14	3.00	2.99	4.75	1.18	33.88
1981	0.93	7.10	1.44	3.46	2.27	4.59	5.44	2.31	6.14	4.71	2.80	4.51	45.70
1982	5.17	2.53	3.20	4.54	2.91	6.75	2.61	3.35	1.90	1.93	3.61	1.18	39.68
1983	4.59	3.94	9.75	6.82	5.98	1.35	4.31	2.58	1.35	3.38	13.50	8.78	66.33
1984	2.56	4.99	5.12	4.81	9.64	3.87	3.86	2.09	0.84	3.26	3.69	3.44	48.17
1985	1.03	1.54	3.15	1.25	2.03	2.74	3.30	3.18	2.97	4.07	6.36	2.39	34.01
1986	6.58	2.61	4.21	3.49	2.51	3.91	3.44	1.87	2.64	2.09	5.18	5.91	44.44
1987	5.21	0.04	4.29	6.33	2.62	5.01	1.79	2.48	4.64	2.54	3.82	2.01	40.78
1988	1.97	3.34	1.85	3.68	4.27	2.36	5.89	5.24	1.50	3.47	8.84	1.21	43.62
1989	1.15	2.37	2.14	2.94	8.74	4.49	2.50	1.73	4.48	4.81	3.97	2.23	41.55
1990	3.19	2.49	1.42	5.16	5.23	4.12	3.21	1.89	3.12	7.46	7.50	7.90	52.69
1991	2.91	1.85	6.19	6.71	3.77	1.47	2.35	15.22	5.44	2.83	4.34	4.06	57.14
1992	4.80	3.42	3.93	2.47	1.15	3.99	4.06	2.59	3.11	2.48	4.39	2.12	38.51
1993	2.80	3.84	6.26	5.69	1.14	2.89	2.73	1.21	4.10	3.74	4.05	5.40	43.85
1994	5.34	1.29	6.71	2.94	4.87	1.25	1.73	2.82	6.60	0.63	3.67	6.20	44.05
1995	4.92	3.55	2.14	2.36	3.31	2.60	3.14	0.47	2.40	4.78	7.27	4.35	41.29
1996	5.30	3.03	2.68	6.44	3.72	1.80	6.19	0.50	3.55	16.86	1.79	6.53	58.39
1997	4.59	2.59	4.05	5.21	2.41	0.76	2.01	4.15	2.68	1.37	5.22	2.57	37.61
1998	4.83	5.72	4.23	3.36	3.83	9.01	2.92	4.03	3.02	10.45	1.80	1.56	54.76
1999	5.97	3.87	4.52	0.28	4.98	0.95	1.62	1.53	8.80	3.89	2.25	2.00	40.66
2000	3.41	2.90	3.66	5.44	3.07	2.06	4.03	1.81	2.46	3.17	4.19	4.49	40.69
2001	1.33	2.58	8.01	1.26	1.14	5.37	2.05	1.28	4.14	1.72	2.20	2.03	33.11
2002	2.98	2.48	4.18	3.85	4.42	4.38	3.33	1.28	3.58	4.17	5.08	4.51	44.24
2003	1.14	3.51	3.65	3.20	3.12	2.15	1.50	2.10	4.68	5.60	3.06	4.54	38.25
2004	0.28	1.94	1.94	6.46	4.69	2.19	3.83	6.14	3.24	2.19	4.04	4.28	41.22
2005	3.33	3.34	4.81	8.72	6.40	5.12	2.83	2.37	2.13	14.38	7.67	5.30	66.40
POR= 134 YRS	3.87	3.64	4.00	3.73	3.48	3.28	3.13	3.05	3.31	3.62	4.14	3.99	43.24

WBAN : 14764

AVERAGE TEMPERATURE (°F) 2005 PORTLAND, ME (PMM)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1976	15.7	28.2	31.5	45.0	52.3	65.9	65.9	65.4	57.3	43.6	36.1	19.4	43.9
1977	14.6	21.9	36.2	42.4	54.4	59.0	68.2	66.6	57.6	48.1	39.4	25.4	44.5
1978	21.1	19.2	30.2	40.6	52.7	61.0	68.0	68.6	57.8	48.2	36.4	26.1	44.2
1979	23.7	15.6	35.6	42.2	55.3	62.7	69.3	64.8	57.4	47.5	42.4	29.8	45.5
1980	22.7	20.5	32.0	44.3	53.7	61.0	69.6	71.2	61.5	45.9	36.2	21.3	45.0
1981	13.8	32.3	35.7	45.2	55.3	63.9	68.8	66.0	58.6	46.6	38.9	29.2	46.2
1982	15.0	23.3	32.1	42.0	54.6	58.3	69.2	64.4	59.2	48.1	41.3	32.0	45.0
1983	25.2	26.2	35.8	44.4	52.0	63.8	69.7	67.6	63.0	47.9	40.2	26.1	46.8
1984	19.8	32.0	28.2	43.3	53.0	63.9	69.6	69.1	57.8	49.6	39.2	31.2	46.4
1985	16.2	26.4	34.8	44.1	53.7	61.7	69.8	66.6	60.7	50.8	39.9	24.6	45.8
1986	25.0	23.4	34.6	46.5	53.6	60.9	66.3	66.2	57.4	47.9	36.3	29.6	45.6
1987	21.6	23.0	34.0	44.9	54.6	63.8	68.0	66.2	59.6	47.1	38.1	30.2	45.9
1988	21.6	25.7	34.2	43.5	54.7	63.8	71.1	71.1	59.4	46.5	41.0	26.0	46.6
1989	26.8	24.0	31.6	41.1	55.6	63.9	69.4	68.0	60.5	49.8	37.3	14.1	45.2
1990	30.2	25.7	34.7	44.6	51.8	62.4	70.3	69.8	59.8	52.4	41.8	33.7	48.1
1991	23.4	29.8	37.0	45.9	58.1	65.5	70.1	69.9	58.2	50.8	40.4	26.4	48.0
1992	23.9	25.9	30.9	41.4	51.9	63.4	65.8	66.8	58.9	47.3	37.6	28.9	45.2
1993	23.4	16.8	29.8	43.3	54.8	64.5	69.8	69.5	59.6	46.2	39.0	29.9	45.6
1994	14.0	19.6	33.5	44.5	52.3	66.0	72.4	66.4	58.4	49.5	41.5	31.5	45.8
1995	27.1	21.2	34.8	41.2	52.1	64.1	70.0	67.4	56.4	52.4	35.7	24.5	45.6
1996	21.4	23.9	29.8	42.9	52.5	63.0	66.4	67.4	59.8	46.8	35.1	34.5	45.3
1997	23.4	28.7	30.4	41.8	51.1	63.3	69.0	67.3	58.7	47.0	36.2	29.5	45.5
1998	27.1	31.3	36.7	45.8	56.8	60.7	69.5	69.5	61.2	49.2	39.4	32.5	48.3
1999	22.3	29.0	35.6	44.9	54.5	66.3	71.3	67.7	63.3	46.6	42.0	31.9	48.0
2000	21.5	26.4	37.8	43.3	53.2	63.7	67.1	67.3	59.9	48.9	40.4	24.6	46.2
2001	20.6	24.3	30.6	43.3	54.9	67.2	66.5	69.4	61.0	50.2	41.4	34.8	47.0
2002	30.4	28.8	34.9	44.4	52.5	61.4	69.5	70.1	63.1	47.0	37.0	27.4	47.2
2003	16.3	20.3	31.6	40.9	52.2	62.9	69.3	68.8	61.4	48.0	40.8	29.6	45.2
2004	15.0	25.9	34.9	44.5	54.2	60.5	66.9	67.8	60.9	49.7	38.9	28.0	45.6
2005	19.4	25.5	30.1	45.0	49.3	64.7	69.4	70.2	63.6	50.1	40.7	27.8	46.3
POR= 131 YRS	22.2	23.6	32.4	42.9	53.3	62.4	68.3	66.7	59.4	49.3	38.6	27.1	45.5

HEATING DEGREE DAYS (base 65°F) 2005 PORTLAND, ME (PWM)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1976-77	45	73	229	660	858	1404	1559	1199	888	674	354	184	8127
1977-78	29	54	233	518	761	1219	1353	1276	1071	724	377	134	7749
1978-79	39	32	230	513	852	1201	1272	1380	905	677	311	97	7509
1979-80	21	82	240	539	672	1083	1305	1284	1018	613	346	163	7366
1980-81	16	6	163	584	855	1349	1578	910	901	588	312	54	7316
1981-82	16	45	189	566	778	1102	1543	1161	1014	684	320	198	7616
1982-83	20	78	185	519	704	1015	1225	1080	895	612	393	101	6827
1983-84	8	38	139	527	738	1198	1397	949	1132	642	368	110	7246
1984-85	11	13	223	469	767	1043	1506	1076	930	620	347	115	7120
1985-86	4	32	157	433	747	1245	1236	1161	935	548	354	138	6990
1986-87	47	52	242	523	855	1092	1336	1172	955	597	343	77	7291
1987-88	20	58	171	548	798	1070	1339	1130	950	641	323	112	7160
1988-89	13	32	180	569	713	1201	1174	1141	1028	708	286	91	7136
1989-90	6	25	167	464	824	1573	1071	1093	935	607	402	107	7274
1990-91	12	24	170	388	690	964	1283	979	861	568	236	76	6251
1991-92	11	16	228	433	730	1191	1267	1127	1051	700	414	84	7252
1992-93	47	30	208	543	814	1112	1280	1344	1084	645	311	81	7499
1993-94	15	5	192	575	774	1080	1577	1266	968	609	389	61	7511
1994-95	1	35	201	472	697	1028	1167	1216	929	706	391	85	6928
1995-96	9	35	265	380	873	1248	1343	1181	1083	659	384	90	7550
1996-97	23	17	179	556	889	940	1284	1011	1065	689	424	135	7212
1997-98	11	21	192	554	857	1093	1164	938	872	569	264	143	6678
1998-99	3	9	124	482	761	1002	1314	1002	903	599	322	61	6582
1999-00	6	23	105	563	686	1020	1341	1113	838	645	361	112	6813
2000-01	11	18	184	491	729	1247	1371	1134	1060	643	330	57	7275
2001-02	32	15	140	456	702	928	1066	1006	927	609	380	149	6410
2002-03	23	21	103	563	830	1158	1501	1246	1028	717	391	114	7695
2003-04	9	22	110	521	719	1088	1541	1128	930	609	329	159	7165
2004-05	15	20	131	470	776	1140	1410	1099	1074	596	477	100	7308
2005-	17	8	85	454	723	1146							

WBAN : 14764

COOLING DEGREE DAYS (base 65°F) 2005 PORTLAND, ME (PWM)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1976	0	0	0	0	2	128	80	93	5	0	0	0	308
1977	0	0	0	1	32	12	135	109	19	0	0	0	308
1978	0	0	0	0	6	22	138	150	20	0	0	0	336
1979	0	0	0	0	15	34	162	83	19	3	0	0	316
1980	0	0	0	0	1	50	163	205	67	0	0	0	486
1981	0	0	0	0	20	30	138	84	5	0	0	0	277
1982	0	0	0	0	6	4	158	66	17	0	0	0	251
1983	0	0	0	0	0	73	161	125	84	3	0	0	446
1984	0	0	0	0	0	84	162	147	12	0	0	0	405
1985	0	0	0	0	5	25	161	92	35	1	0	0	319
1986	0	0	0	0	8	23	93	96	19	0	0	0	239
1987	0	0	0	0	28	47	121	103	17	0	0	0	316
1988	0	0	0	0	11	85	209	227	17	2	0	0	551
1989	0	0	0	0	2	67	151	126	38	0	0	0	384
1990	0	0	0	0	0	34	181	179	19	7	0	0	420
1991	0	0	0	0	29	96	178	176	31	0	0	0	510
1992	0	0	0	0	13	43	76	93	30	0	0	0	255
1993	0	0	0	0	1	72	170	150	37	0	0	0	430
1994	0	0	0	0	1	101	237	89	10	0	0	0	438
1995	0	0	0	0	3	67	174	118	14	0	0	0	376
1996	0	0	0	0	5	38	75	99	29	0	0	0	246
1997	0	0	0	0	0	90	145	100	8	2	0	0	345
1998	0	0	2	0	15	21	152	154	17	0	0	0	361
1999	0	0	0	0	4	109	208	116	59	0	0	0	496
2000	0	0	0	0	1	76	81	97	37	1	0	0	293
2001	0	0	0	0	23	127	85	161	25	3	0	0	424
2002	0	0	0	0	0	49	169	183	55	14	0	0	470
2003	0	0	0	0	0	56	149	148	9	0	0	0	362
2004	0	0	0	0	1	31	80	114	16	0	0	0	242
2005	0	0	0	0	0	97	159	174	52	2	0	0	484

SNOWFALL (inches) 2005 PORTLAND, ME (PWM)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1976-77	0.0	0.0	0.0	0.0	1.5	23.3	35.2	7.9	19.3	1.4	T	0.0	88.6
1977-78	0.0	0.0	0.0	0.0	1.9	23.1	30.7	8.2	12.5	0.8	0.0	0.0	77.2
1978-79	0.0	0.0	0.0	0.0	3.6	18.9	62.4	4.5	T	2.9	0.0	0.0	92.3
1979-80	0.0	0.0	0.0	1.7	T	1.8	6.0	11.2	6.8	0.0	0.0	0.0	27.5
1980-81	0.0	0.0	0.0	0.0	8.9	13.0	9.2	4.6	3.1	T	0.0	0.0	38.8
1981-82	0.0	0.0	0.0	0.0	T	24.0	25.9	11.0	8.5	15.9	0.0	0.0	85.3
1982-83	0.0	0.0	0.0	0.0	0.6	5.7	12.4	24.5	2.1	T	0.0	0.0	45.3
1983-84	0.0	0.0	0.0	0.0	T	12.6	28.3	3.3	26.4	T	0.0	0.0	70.6
1984-85	0.0	0.0	0.0	0.0	T	17.0	12.1	7.2	13.1	2.4	0.0	0.0	51.8
1985-86	0.0	0.0	0.0	0.0	3.1	11.2	18.6	12.0	6.4	T	0.0	0.0	51.3
1986-87	0.0	0.0	0.0	0.0	5.2	4.0	50.7	0.8	14.3	3.4	0.0	0.0	78.4
1987-88	0.0	0.0	T	0.0	5.4	9.1	19.8	20.8	3.0	4.2	0.0	0.0	62.3
1988-89	0.0	0.0	0.0	T	T	3.5	4.0	13.8	8.9	0.7	0.0	0.0	30.9
1989-90	0.0	0.0	0.0	0.0	5.0	15.6	20.4	25.6	3.2	T	0.0	0.0	69.8
1990-91	0.0	0.0	T	0.0	0.2	6.8	13.4	6.3	5.7	T	0.0	0.0	32.4
1991-92	0.0	0.0	0.0	0.0	T	22.5	2.4	10.3	13.4	10.0	0.0	0.0	58.6
1992-93	0.0	0.0	T	T	2.8	2.1	17.1	33.5	49.0	11.1	0.0	0.0	115.6
1993-94	0.0	0.0	0.0	0.2	T	12.3	39.3	12.2	12.2	T	0.0	0.0	76.2
1994-95	0.0	0.0					15.5	17.3	1.4	0.0	0.0	0.0	
1995-96	0.0	0.0	0.0	0.0	2.0	37.3	37.1	13.1	25.0	8.5			
1996-97						1.4							
1997-98					20.5	6.3	17.1	0.9	9.7	0.0	0.0	0.0	
1998-99	0.0	0.0	0.0	0.0	T	11.7	19.2	5.1	17.5	0.0	0.0	0.0	53.5
1999-00	0.0	0.0	0.0	0.0	T	T	14.9	14.6	11.6	T	0.0	0.0	41.1
2000-01	0.0	0.0	0.0	T	T	18.8	15.5	24.2	40.5	0.3	0.0	0.0	99.3
2001-02	0.0	0.0	0.0	T	T	5.0	15.8	1.1	10.4	0.3	0.0	0.0	32.6
2002-03	T	0.0	0.0	0.0	4.1	17.4	18.7	16.8	2.4	4.5	0.0	0.0	63.9
2003-04	0.0	0.0	0.0	T	T	24.0	2.8	12.3	6.1	1.5	0.0	0.0	46.7
2004-05	0.0	0.0	0.0	0.0	T	8.8	37.3	23.5	32.5	T	0.0	0.0	102.1
2005-	0.0	0.0	0.0	0.0	2.3	20.4							
POR= 64 YRS	0.0	0.0	T	0.2	3.0	14.6	19.3	16.5	13.4	2.9	0.2	0.0	70.1

WBAN : 14764

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 PORTLAND, MAINE (PWM)

The Portland City Airport is located 2 3/4 miles west of the site of the former city office. The surrounding country is mostly open, rolling and sloping generally toward the Fore River, a body of brackish water about 1,000 feet wide at a distance of about 1/2 mile from the station and forming one boundary (north through east) of the field. The airport is about 5 1/2 miles west-northwest of the open ocean. A slight rise reaching an elevation of 100 feet, lying northwest of the field, cuts down the wind slightly from that direction. The older portion of the city is situated on a hill rising abruptly from sea level to 170 feet, 1 1/2 miles east of the airport and on the opposite side of the Fore River. A line of low hills southeast of the airport, near the ocean, which reach a maximum height of 160 feet, shuts off sight of the ocean from the airport. Sebago Lake with an area of 44 square miles is situated about 15 miles to the northwest and 45 miles farther are the White Mountains, averaging 3,000 to 5,000 feet in height.

As a rule, Portland has very pleasant summers and falls, cold winters with frequent thaws, and disagreeable springs. Very few summer nights are too warm and humid for comfortable sleeping. Autumn has the greatest number of sunny days and the least cloudiness. Winters are quite severe, but begin late and then extend deeply into the normal springtime.

Heavy seasonal snowfalls, over 100 inches, normally occur about each 10 years. True blizzards are very rare. The White Mountains, to the northwest, keep considerable snow from reaching the Portland area and also moderate the temperature. Normal monthly precipitation is remarkably uniform throughout the year.

Winds are generally quite light with the highest velocities being confined mostly to March and November. Even in these months the occasional northeasterly gales have usually lost much of their severity before reaching the coast of Maine.

Temperatures well below zero are recorded frequently each winter. Cold waves sometimes come in on strong winds, but extremely low temperatures are generally accompanied by light winds.

The average freeze-free season at the airport station is 139 days. Mid-May is the average occurrence of the last freeze in spring, and the average occurrence of the first freeze in fall is late September. The freeze-free period is longer in the city proper, but may be even shorter at susceptible places further inland.

Daily maximum temperatures at the present airport site agree closely with those near the former intown office, but minimum temperatures on clear, quiet mornings range as much as 15 degrees lower at the airport.

STATION LOCATION

PORTLAND, MAINE

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										HYGROMETER
							GROUND	WIND INSTRUMENT	EXTREME THERMOMETER	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET	WEIGHING RAIN GAGE	8 INCH RAIN GAGE			
*NOTE: <u>AIRPORT</u> Administration Bldg. + Portland City Airport++ + General Aviation Terminal, effective Oct. 1968 1001 Westbrook St. ++ Portland Int'l Jetport, Sept. 1969. 4 Al McKay Avenue Portland International Jetport Portland Int'l Jetport	12/03/39	10/13/88	2.75 mi. W of City Office	43°39'	70°19'	d43	a20 f20	e6 g	e6 g	%33	b3 h13	6 h13	3 h13	c4 f5 i5	NA	a. 36 feet to 6/41'; 61 feet to 5/43; 43 feet to 8/48; and 55 feet to 10/6/64. b. 24 feet to 6/48. c. Commissioned 1200 feet ESE of thermometer site 2/2/65. d. 61 feet to 2/2/65 and 47 feet to 12/10/69. e. Standby status after 2/2/65. f. Moved 850 feet SE 12/10/69. g. Removed 7/17/78. h. Effective 12/26/78. % - Commissioned 6/30/53. i. Type change 12/10/85. WSFO moved to airport 7/31/88. j. Effective 7/30/88. k. Not moved 10/13/88.	
	10/13/88	08/01/94	Unknown	43°39'	70°18'	j38	k20	5	5	5	3	3	3	k5	NA		
	08/01/94	Present	NA	43°39'	70°18'	169									S	ASOS Commissioned 08/01/94. l. ground elevation.	

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* NOTES: For earlier station history see previous edition.