

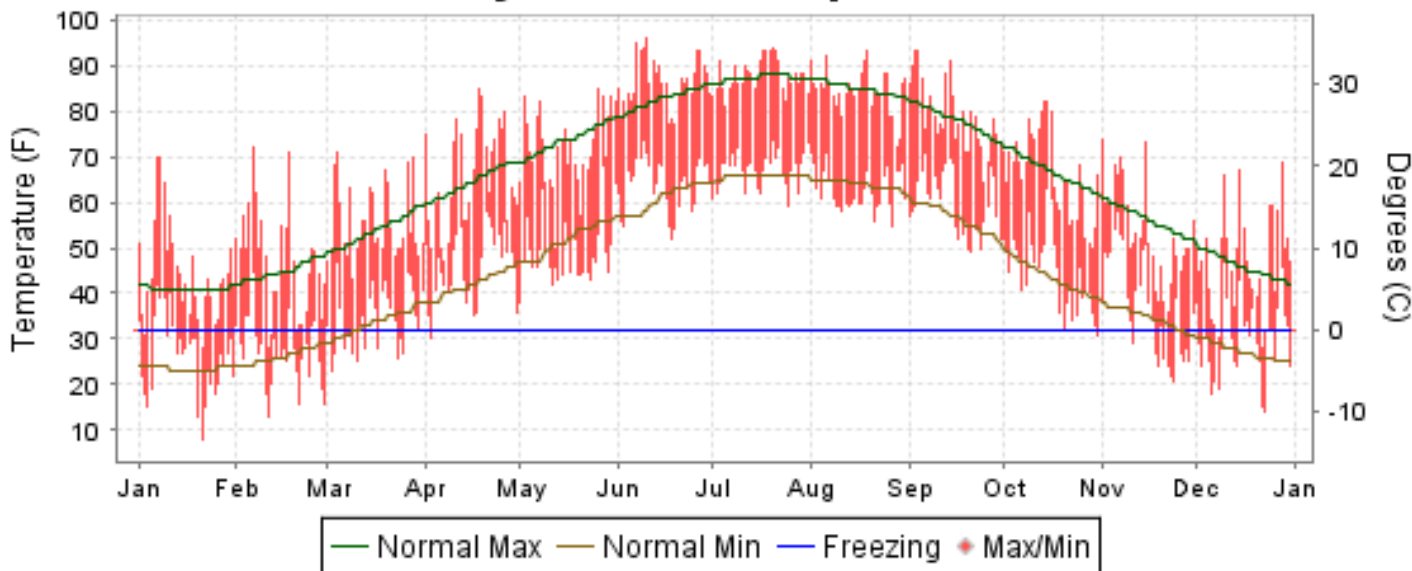


# 2008 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

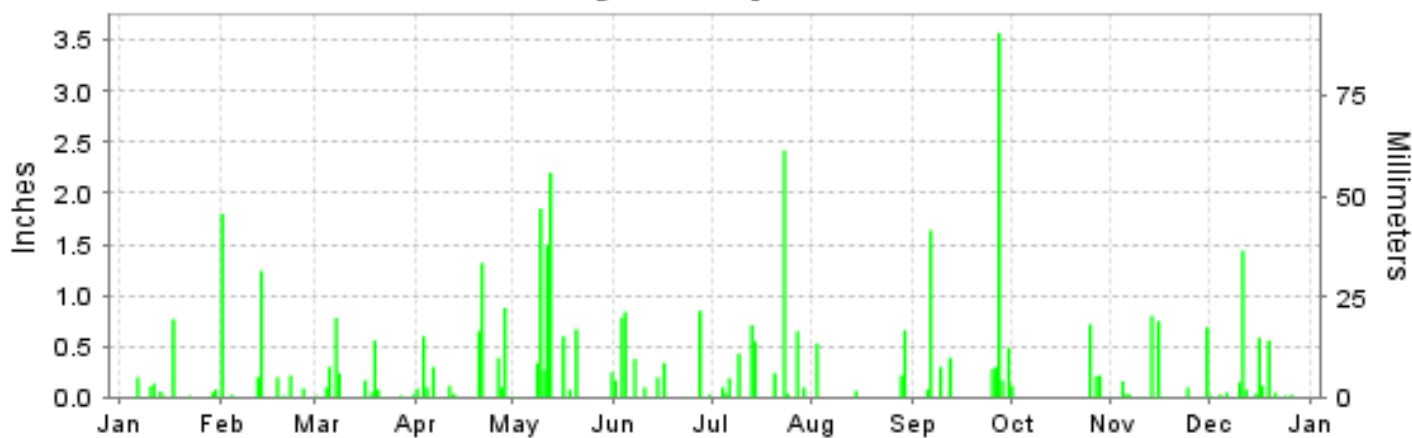
ISSN 0198-2397

## BALTIMORE, MARYLAND (KBWI)

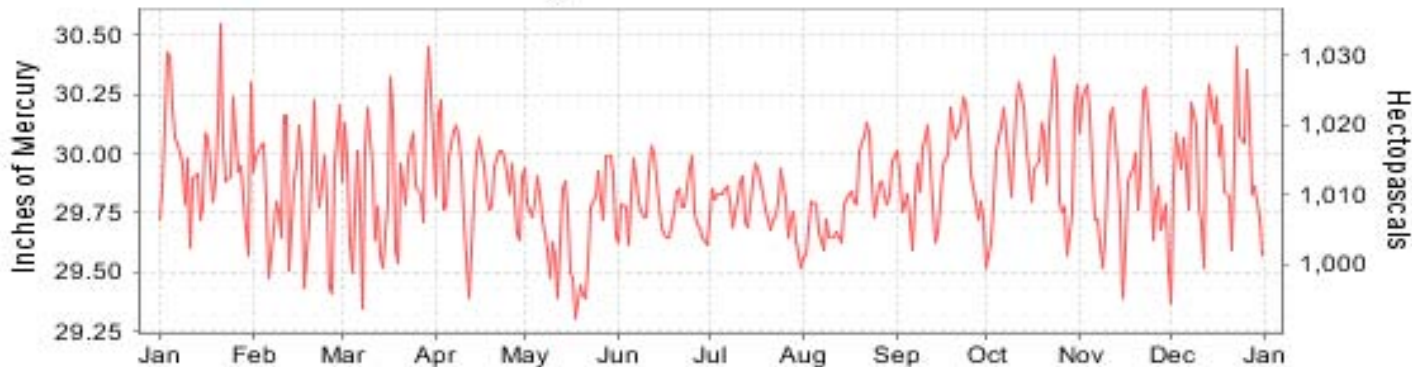
### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure



I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER.

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AND INFORMATION SERVICE

NATIONAL  
CLIMATIC DATA CENTER  
ASHEVILLE, NORTH CAROLINA

*Thomas R. Karl*  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2008

## BALTIMORE (KBWI)

LATITUDE: 39 ° 10'N      LONGITUDE: -76 ° 41'W      ELEVATION (FT): GRND: 143    BARO: 196      TIME ZONE: EASTERN (UTC -5)      WBAN: 93721

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	44.5	47.1	55.5	65.8	72.0	86.6	87.7	84.5	78.9	66.5	53.5	47.2	65.8	
	HIGHEST DAILY MAXIMUM	70	72	71	85	85	96	94	93	93	82	74	69	96	
	DATE OF OCCURRENCE	08+	06	04	18	26	10	20	19	04+	15+	01	28	JUN 10	
	MEAN DAILY MINIMUM	26.3	27.0	34.4	45.8	49.0	64.0	67.2	62.7	59.9	44.6	37.2	29.8	45.7	
	LOWEST DAILY MINIMUM	8	13	23	30	38	52	59	55	49	31	21	14	8	
	DATE OF OCCURRENCE	21	11	02	03	01	18	25	27	21	31	24	23	JAN 21	
	AVERAGE DRY BULB	35.4	37.1	45.0	55.8	60.5	75.3	77.5	73.6	69.4	55.6	45.4	38.5	55.8	
	MEAN WET BULB	31.0	33.1	39.1	49.6	54.4	66.5	69.1	64.9	63.2	48.9	40.3	34.5	49.6	
	MEAN DEW POINT	22.0	25.6	29.2	42.6	48.3	61.3	64.4	59.2	58.7	42.8	33.4	27.2	42.9	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	9	10	4	4	0	0	0	0	27
MAXIMUM <= 32°	2	3	0	0	8	0	0	0	0	0	0	3	16		
MINIMUM <= 32°	24	22	13	1	0	0	0	0	0	2	11	20	93		
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	909	799	614	274	165	0	0	0	18	304	584	814	4481	
	COOLING DEGREE DAYS	0	0	0	6	33	317	395	274	158	19	0	0	1202	
RH	MEAN (PERCENT)	61	66	57	66	65	65	67	64	71	66	66	66	65	
	HOUR 01 LST	71	71	67	78	78	81	83	80	83	80	72	73	76	
	HOUR 07 LST	73	73	64	70	68	67	69	68	74	74	73	74	71	
	HOUR 13 LST	46	56	43	51	53	45	48	45	55	46	53	54	50	
	HOUR 19 LST	58	66	54	62	63	66	68	63	72	70	67	65	65	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	2	1	1	3	0	0	0	0	1	1	3	0	12	
	THUNDERSTORMS	0	0	0	4	4	11	7	5	4	1	1	0	37	
CLOUDNESS	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.)	29.98	29.85	29.88	29.89	29.69	29.78	29.79	29.78	29.92	29.98	29.88	29.96	29.87	
	MEAN SEA-LEVEL PRESS. (IN.)	30.15	30.02	30.06	30.06	29.86	29.94	29.95	29.95	30.08	30.16	30.06	30.13	30.04	
WINDS	RESULTANT SPEED (MPH)	3.7	3.1	2.4	2.4	2.2	3.1	2.2	0.8	1.9	2.3	3.0	3.6	1.9	
	RES. DIR. (TENS OF DEGS.)	28	29	29	05	28	25	23	33	04	30	30	28	29	
	MEAN SPEED (MPH)	6.3	7.1	7.8	6.9	6.7	5.5	4.6	4.8	5.6	5.5	6.4	7.0	6.2	
	PREVAIL.DIR.(TENS OF DEGS.)	28	30	29	08	23	26	22	31	03	28	29	29	28	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	38	39	37	30	33	44	24	23	33	35	31	38	44	
	DIR. (TENS OF DEGS.)	28	28	27	31	31	27	16	27	06	28	28	28	27	
	DATE OF OCCURRENCE	30	10	08	02	21	04	23	02	06	28	15	31	JUN 04	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	49	54	49	44	41	55	32	30	41	48	40	51	55	
DIR. (TENS OF DEGS.)	29	28	27	31	32	27	16	27	06	27	27	29	27		
DATE OF OCCURRENCE	30	10	08	02	21	04	23	02	06	28	16	31	JUN 04		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	1.47	3.80	2.37	4.62	7.77	3.70	5.47	1.48	7.22	1.27	2.61	3.19	44.97	
	GREATEST 24-HOUR (IN.)	0.77	1.80	0.96	1.94	3.65	1.55	2.46	0.66	3.78	0.72	0.80	1.50	3.78	
	DATE OF OCCURRENCE	17	01	07-08	20-21	11-12	03-04	23-24	29	26-27	25	13	11-12	SEP 26-27	
	NUMBER OF DAYS WITH:														
PRECIPITATION 0.01	11	8	13	13	11	10	11	4	9	4	11	14	119		
PRECIPITATION 0.10	4	5	6	9	0	8	9	3	8	4	5	5	66		
PRECIPITATION 1.00	0	2	0	1	3	0	1	0	2	0	0	1	10		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	2.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.6	4.3	
	GREATEST 24-HOUR (IN.)	2.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.6	2.4	
	DATE OF OCCURRENCE	17	20									25+	06	JAN 17	
	MAXIMUM SNOW DEPTH (IN.)	2	1	0	0	0	0	0	0	0	0	T	1	2	
	DATE OF OCCURRENCE	17	21									21	07	JAN 17	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	1	0	0	0	0	0	0	0	0	0	0	0	1		



**PRECIPITATION (inches) 2008 BALTIMORE (KBWI)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1979	7.84	7.16	2.05	3.37	4.15	5.74	3.71	9.38	6.73	5.53	2.45	0.87	58.98
1980	2.58	1.06	5.46	4.24	3.58	3.04	3.25	4.00	1.00	3.08	2.72	0.70	34.71
1981	0.49	2.93	1.14	2.04	3.63	5.40	4.59	1.93	2.89	2.57	0.31	3.30	31.22
1982	3.37	4.04	3.03	3.61	1.85	5.70	2.16	0.95	3.63	2.31	3.13	2.39	36.17
1983	2.21	4.81	6.80	6.55	5.47	5.23	1.31	1.57	1.76	3.58	5.02	6.72	51.03
1984	1.96	3.90	5.79	2.95	4.29	1.65	3.27	4.11	2.38	1.94	3.01	1.71	36.96
1985	2.03	3.03	2.37	0.39	6.01	2.44	2.53	3.72	6.22	2.48	4.71	0.84	36.77
1986	2.16	3.78	0.96	2.64	0.37	1.46	4.12	4.26	0.58	1.86	5.96	5.52	33.67
1987	5.85	2.22	0.99	1.86	4.16	2.63	5.05	1.61	7.34	2.25	5.05	2.07	41.08
1988	3.24	3.25	2.35	2.44	4.37	0.84	3.78	2.64	2.05	1.59	4.78	0.97	32.30
1989	3.07	3.36	4.24	3.16	8.71	5.98	7.35	3.38	3.64	4.90	1.97	2.12	51.88
1990	3.71	1.48	2.54	4.23	4.92	2.55	5.68	6.17	1.07	2.57	2.10	4.86	41.88
1991	3.54	0.73	5.65	1.68	1.16	1.08	1.76	2.54	3.05	3.20	1.69	4.08	30.16
1992	1.27	2.49	4.58	1.76	2.92	1.89	5.07	2.19	5.96	2.73	3.44	4.63	38.93
1993	2.73	2.84	8.12	3.68	3.66	2.56	1.71	2.55	4.09	3.02	3.09	4.45	42.50
1994	4.59	4.07	8.64	2.53	3.02	2.84	4.54	3.44	3.93	1.82	1.95	1.95	43.32
1995	2.87	1.88	2.12	1.92	3.40	1.80	3.65	2.98	3.29	6.24	4.12	2.66	36.93
1996	6.80	2.36	3.57	3.76	5.68	4.08	7.38	4.17	5.65	4.32	3.77	6.77	58.31
1997	2.83	2.23	5.67	2.40	3.03	3.74	1.49	4.21	1.47	3.43	5.79	2.05	38.34
1998	5.65	6.40	5.56	3.02	3.46	3.22	1.42	0.91	1.27	1.06	1.13	1.27	34.37
1999	4.70	2.65	3.46	2.27	1.73	2.04	2.06	6.14	11.50	2.48	1.95	2.96	43.94
2000	3.64	2.01	4.35	5.06	2.82	5.54	5.64	3.18	5.55	0.08	1.73	2.31	41.91
2001	2.68	2.35	4.76	1.32	5.34	3.58	3.85	5.74	1.43	0.78	1.01	1.73	34.57
2002	2.19	0.36	3.75	4.08	2.99	2.39	2.26	3.66	3.17	6.01	3.78	4.96	39.60
2003	2.59	6.70	4.17	2.40	6.81	6.96	5.56	4.61	7.47	5.82	4.86	4.71	62.66
2004	1.26	2.40	2.73	5.33	5.05	4.17	8.69	2.71	3.94	1.44	5.02	2.93	45.67
2005	3.75	1.66	5.13	3.81	2.64	3.74	8.77	3.71	0.67	9.23	2.12	3.90	49.13
2006	3.48	2.64	0.18	3.27	1.60	7.32	1.86	1.45	7.56	5.75	6.25	1.88	43.24
2007	2.48	2.04	4.17	5.00	0.94	2.20	3.31	3.08	0.35	5.85	1.52	4.03	34.97
2008	1.47	3.80	2.37	4.62	7.77	3.70	5.47	1.48	7.22	1.27	2.61	3.19	44.97
POR= 58 YRS	3.05	2.96	3.81	3.24	3.64	3.61	3.97	3.90	3.71	3.16	3.17	3.33	41.55

WBAN : 93721

**AVERAGE TEMPERATURE (°F) 2008 BALTIMORE (KBWI)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1979	33.1	25.6	48.5	53.1	64.7	70.7	75.9	75.7	68.8	55.7	50.6	40.3	55.2
1980	33.8	31.5	41.5	55.7	65.5	71.3	78.2	78.7	72.2	55.3	44.2	35.5	55.3
1981	27.9	38.8	41.9	57.0	62.2	74.3	77.3	74.4	67.7	53.2	46.2	34.5	54.6
1982	25.5	35.8	42.9	50.7	66.1	69.4	77.1	73.0	67.3	56.3	48.4	42.0	54.5
1983	34.6	34.7	45.4	51.8	61.5	72.1	78.7	78.0	69.5	57.3	47.1	33.2	55.3
1984	28.5	41.7	38.2	51.5	61.3	73.4	73.9	75.0	64.8	62.2	43.9	44.1	54.9
1985	29.3	38.7	46.0	57.9	65.1	70.4	76.4	74.5	69.4	58.8	52.4	33.8	56.1
1986	33.2	32.9	45.0	53.5	66.7	74.4	79.4	73.1	68.9	58.9	44.8	38.2	55.8
1987	32.5	34.3	46.2	53.1	65.0	74.5	80.0	76.1	69.3	51.5	47.8	39.8	55.8
1988	28.7	35.9	45.1	52.0	64.0	73.0	80.3	78.5	66.8	51.3	48.1	36.3	55.0
1989	37.9	36.5	43.8	52.5	62.0	73.9	76.0	74.4	69.0	58.3	44.8	25.4	54.5
1990	42.0	42.3	47.6	54.8	62.3	73.3	78.4	74.6	67.3	60.7	49.6	42.2	57.9
1991	35.5	40.7	46.7	55.9	70.6	74.6	79.5	77.8	69.0	57.8	45.8	38.7	57.7
1992	34.6	37.1	41.3	52.0	60.8	70.1	77.4	72.3	67.7	54.3	47.2	38.9	54.5
1993	37.9	31.4	39.4	52.5	65.0	72.2	80.2	76.7	68.8	55.5	46.5	36.2	55.2
1994	27.1	34.0	43.0	59.6	60.6	77.2	80.1	74.1	68.1	56.8	51.9	42.6	56.3
1995	39.0	33.2	47.8	55.2	64.5	74.5	81.5	80.1	70.4	61.1	42.6	33.9	57.0
1996	31.7	35.7	39.9	54.0	60.6	73.3	74.3	73.2	67.8	55.6	40.2	39.6	53.8
1997	32.8	41.0	45.5	51.6	59.5	70.1	77.3	74.0	67.3	56.5	43.7	38.4	54.8
1998	40.9	41.7	45.9	55.2	66.5	71.7	76.6	75.7	71.8	56.3	46.1	41.1	57.5
1999	35.1	37.6	41.8	53.2	64.2	71.5	80.0	75.7	68.2	53.9	49.9	39.1	55.9
2000	32.5	38.1	48.5	52.9	64.7	72.8	72.7	73.4	65.3	57.1	44.2	30.0	54.4
2001	33.1	38.5	41.8	55.4	63.4	74.1	72.8	77.0	65.2	56.0	50.7	42.1	55.8
2002	39.1	39.3	45.0	56.7	62.2	73.8	78.6	78.4	69.5	56.0	44.4	34.3	56.4
2003	28.3	30.2	43.9	52.7	59.3	69.8	75.6	76.3	68.0	55.1	50.6	36.4	53.9
2004	27.8	34.8	45.6	54.7	69.8	70.9	76.2	74.2	69.4	55.4	48.5	37.5	55.4
2005	34.1	36.7	40.6	55.2	59.2	73.6	78.0	77.6	72.0	57.8	48.1	34.0	55.6
2006	41.6	36.1	45.6	57.5	63.4	73.1	79.9	78.4	65.5	55.2	49.6	42.4	57.4
2007	38.7	29.1	45.2	51.5	65.5	73.8	76.9	77.5	70.6	63.4	46.2	37.8	56.4
2008	35.4	37.1	45.0	55.8	60.5	75.3	77.5	73.6	69.4	55.6	45.4	38.5	55.8
POR= 58 YRS	33.2	35.6	43.6	54.1	63.4	72.5	77.2	75.6	68.5	56.8	46.5	36.9	55.3

**HEATING DEGREE DAYS (base 65°F) 2008 BALTIMORE (KBWD)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1979-80	2	3	22	311	425	757	962	967	723	273	74	6	4525
1980-81	0	0	20	311	620	908	1145	727	706	252	148	1	4838
1981-82	0	0	51	363	557	940	1218	808	677	422	58	20	5114
1982-83	0	5	42	289	495	707	936	842	602	410	152	6	4486
1983-84	0	0	70	257	530	979	1123	671	825	397	169	9	5030
1984-85	0	1	96	123	625	643	1101	731	589	252	79	10	4250
1985-86	0	0	41	201	378	962	980	892	613	342	86	6	4501
1986-87	0	23	34	236	598	822	1002	853	576	357	106	1	4608
1987-88	0	1	15	412	511	774	1120	838	613	389	96	27	4796
1988-89	2	0	39	424	504	882	834	792	663	374	145	0	4659
1989-90	0	0	51	229	600	1221	707	631	552	341	102	5	4439
1990-91	1	0	63	195	454	701	907	674	562	289	55	4	3905
1991-92	0	0	49	246	570	809	936	802	730	387	161	8	4698
1992-93	0	1	51	328	529	801	834	934	787	369	61	11	4706
1993-94	0	0	52	292	553	886	1169	861	677	190	180	1	4861
1994-95	0	0	13	256	391	684	798	885	525	307	77	0	3936
1995-96	0	0	30	176	669	958	1024	840	772	345	199	12	5025
1996-97	0	0	42	283	736	778	994	667	597	394	182	53	4726
1997-98	0	0	49	307	633	815	737	647	625	295	59	22	4189
1998-99	0	1	25	263	560	734	919	762	714	349	71	9	4407
1999-00	0	0	37	336	445	794	999	774	508	362	102	8	4365
2000-01	0	1	97	254	616	1079	984	736	715	309	99	12	4902
2001-02	2	0	76	289	424	706	795	715	612	302	154	3	4078
2002-03	0	1	10	316	611	945	1131	967	649	370	191	31	5222
2003-04	0	0	24	303	434	881	1148	866	593	323	49	13	4634
2004-05	0	2	14	291	487	845	952	786	750	298	183	9	4617
2005-06	0	0	12	239	502	955	720	802	598	228	117	4	4177
2006-07	0	0	53	314	456	693	805	1000	608	406	92	1	4428
2007-08	0	0	26	143	559	835	909	799	614	274	165	0	4324
2008-	0	0	18	304	584	814							

WBAN : 93721

**COOLING DEGREE DAYS (base 65°F) 2008 BALTIMORE (KBWD)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1979	0	0	15	4	72	183	348	341	145	28	1	0	1137
1980	0	0	0	0	97	203	415	431	245	17	0	0	1408
1981	0	0	0	19	69	287	389	296	141	5	0	0	1206
1982	0	0	0	4	99	160	381	259	119	26	4	1	1053
1983	0	0	0	18	51	228	430	410	214	24	0	0	1375
1984	0	0	0	0	59	268	281	316	98	41	0	2	1065
1985	0	2	7	43	89	179	363	298	178	17	5	0	1181
1986	0	0	0	1	143	295	452	281	158	54	0	0	1384
1987	0	0	0	7	115	292	473	352	152	0	0	0	1391
1988	0	0	2	4	71	274	485	427	100	8	0	0	1371
1989	0	0	14	5	58	276	351	298	178	25	1	0	1206
1990	0	0	19	38	26	261	422	303	137	68	0	0	1274
1991	0	0	2	24	233	303	462	402	177	29	2	0	1634
1992	0	0	0	6	39	168	392	232	139	4	0	0	980
1993	0	0	0	0	70	235	476	371	175	3	5	0	1335
1994	0	0	0	38	49	374	476	292	112	6	3	0	1350
1995	0	0	0	20	72	289	520	475	199	60	3	0	1638
1996	0	0	0	19	70	265	295	259	135	1	0	0	1044
1997	0	0	0	0	20	211	385	287	124	51	0	0	1078
1998	0	0	39	9	115	228	367	341	235	0	0	0	1334
1999	0	0	0	0	54	210	471	340	138	0	0	0	1213
2000	0	0	3	6	102	248	245	269	115	17	0	0	1005
2001	0	0	0	27	54	290	249	381	90	12	2	0	1105
2002	0	0	0	59	75	275	430	425	154	43	0	0	1461
2003	0	0	0	6	21	181	336	358	120	2	8	0	1032
2004	0	0	0	23	203	197	355	295	152	2	0	0	1227
2005	0	0	0	13	10	273	408	399	227	20	0	0	1350
2006	0	0	3	9	74	252	468	422	72	15	0	0	1315
2007	0	0	2	9	114	268	376	394	203	99	0	0	1465
2008	0	0	0	6	33	317	395	274	158	19	0	0	1202

**SNOWFALL (inches) 2008 BALTIMORE (KBWI)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1979-80	0.0	0.0	0.0	0.3	T	0.1	4.7	3.8	5.7	0.0	0.0	0.0	14.6
1980-81	0.0	0.0	0.0	0.0	T	0.2	4.1	T	0.3	0.0	0.0	0.0	4.6
1981-82	0.0	0.0	0.0	0.0	T	2.4	14.8	7.6	0.7	T	0.0	0.0	25.5
1982-83	0.0	0.0	0.0	0.0	0.0	7.2	1.2	27.2	T	T	0.0	0.0	35.6
1983-84	0.0	0.0	0.0	0.0	T	T	8.4	T	6.1	T	0.0	0.0	14.5
1984-85	0.0	0.0	0.0	0.0	T	0.1	9.1	0.4	T	0.7	0.0	0.0	10.3
1985-86	0.0	0.0	0.0	0.0	0.0	0.7	1.9	13.0	T	T	0.0	0.0	15.6
1986-87	0.0	0.0	0.0	0.0	0.0	T	25.1	10.1	T	T	0.0	0.0	35.2
1987-88	0.0	0.0	0.0	0.0	6.0	0.5	13.7	0.2	T	T	0.0	0.0	20.4
1988-89	0.0	0.0	0.0	0.0	0.0	0.9	6.0	1.1	0.3	0.0	0.0	0.0	8.3
1989-90	0.0	0.0	0.0	0.0	3.8	10.2	0.5	T	2.7	0.1	0.0	0.0	17.3
1990-91	0.0	0.0	0.0	0.0	0.0	4.8	4.2	0.1	0.3	0.0	0.0	0.0	9.4
1991-92	T	0.0	0.0	0.0	T	T	2.2	1.9	T	T	0.0	0.0	4.1
1992-93	T	0.0	0.0	0.0	T	1.5	1.4	8.8	12.7	T	0.0	0.0	24.4
1993-94	0.0	0.0	0.0	0.0	T	2.9	4.9	5.3	4.2	T	0.0	0.0	17.3
1994-95	0.0	0.0	0.0	0.0	0.2	0.0	0.3	7.5	0.2	0.0	0.0	0.0	8.2
1995-96	0.0	0.0	0.0	0.0	1.0	2.3	32.6	19.0	7.6				
1996-97			0.0		.3	0.2	5.0	7.1	2.7	T	T	0.0	
1997-98	0.0	0.0	0.0	0.0	0.0	0.4	0.7	T	2.1	0.0	T	0.0	3.2
1998-99	0.0	0.0	0.0	0.0	0.0	3.0	4.0	0.6	7.6	0.0	0.0	0.0	15.2
1999-00	0.0	0.0	0.0	0.0	0.0	0.2	23.1	2.6	0.0	0.2	0.0	0.0	26.1
2000-01	0.0	0.0	0.0	0.0	T	1.3	3.7	3.7	T	T	0.0	0.0	8.7
2001-02	0.0	0.0	0.0	0.0	0.0	0.0	2.3	T	T	T	0.0	T	2.3
2002-03	0.0	0.0	0.0	0.0	0.0	9.7	5.3	40.5	2.6	T	0.0	0.0	58.1
2003-04	0.0	0.0	0.0	T	0.0	9.6	8.4	0.1	0.2	0.0	0.0	0.0	18.3
2004-05	0.0	0.0	0.0	0.0	0.0	T	7.6	10.0	0.4	0.0	0.0	0.0	18.0
2005-06	0.0	0.0	0.0	0.0	0.5	6.0	T	13.1	T	T	0.0	0.0	19.6
2006-07	0.0	0.0	0.0	0.0	0.0	T	0.9	8.5	1.4	0.2	0.0	0.0	11.0
2007-08	0.0	0.0	0.0	0.0	T	4.8	2.4	1.3	0.0	0.0	0.0	0.0	8.5
2008-	0.0	0.0	0.0	0.0	T	0.6							
POR= 58 YRS	T	0.0	0.0	T	0.8	3.2	6.1	6.9	3.3	T	T	T	20.3

WBAN : 93721

**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> <p><b>NOTE:</b> The "Period of Record:(POR) for all "averages" is based on the "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p>
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# 2008 BALTIMORE MARYLAND (KBWI)

Baltimore-Washington International Airport lies in a region about midway between the rigorous climates of the North and the mild climates of the South, and adjacent to the modifying influences of the Chesapeake Bay and Atlantic Ocean to the east and the Appalachian Mountains to the west. Since this region is near the average path of the low pressure systems which move across the country, changes in wind direction are frequent and contribute to the changeable character of the weather. The net effect of the mountains to the west and the bay and ocean to the east is to produce a more equable climate compared with other continental locations farther inland at the same latitude.

Rainfall distribution throughout the year is rather uniform, however, the greatest intensities are confined to the summer and early fall months, the season for hurricanes and severe thunderstorms. Moisture deficiencies for crops occur occasionally during the growing season, but severe droughts are rare. Rainfall during the growing season occurs principally in the form of thunderstorms, and rainfall totals during these months vary appreciably.

The average date for the last occurrence in spring of temperatures as low as 32 degrees is mid-April. The average date for the first occurrence in fall of temperatures as low as 32 degrees is late October. The freeze-free period is approximately 194 days.

In summer, the area is under the influence of the large semi-permanent high pressure system commonly known as the Bermuda High and centered over the Atlantic Ocean near 30 degrees N Latitude. This pressure system brings warm humid air to the area. The proximity of large water areas and the inflow of southerly winds contribute to high relative humidities during much of the year.

January is the coldest month, and July, the warmest. Snowfall occurs on about eleven days per year on the average, however, an average of only about six days annually produces snowfalls of 1 inch or greater. Snow is frequently mixed with rain and sleet, and snow seldom remains on the ground more than a few days.

Glaze or freezing rain which is hazardous to highway traffic occurs on an average of two to three times per year, generally in January or February. Some years pass without the occurrence of freezing rain, while in others it occurs on as many as eight to ten days. Sleet is observed on about five days annually with the greatest frequency of occurrence in January.

The annual prevailing wind direction is from the west. Winter and spring months have the highest average wind speed. Destructive velocities are rare and occur mostly during summer thunderstorms. Only rarely have hurricanes in the vicinity caused widespread damage, then primarily through flooding.

# Station Location

BALTIMORE

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	Latitude		Longitude		ELEVATION ABOVE								REMARKS	
				NORTH	WEST	GROUND TEMPERATURE SITE	WIND INSTRUMENT	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET RAIN GAUGE	WEIGHING RAIN GAUGE	8 INCH RAIN GAUGE	HYGROTHERMOMETER	AUTOMATIC OBSERVING EQUIPMENT *		
																	SEA LEVEL
*NOTES: AIRPORT																	
+Baltimore-Washington International Airport (Effective Dec. 1973)	7/23/50	04/01/96	NA	39° 11'	76° 40'	146 p148	133 n20	54	54	h125 i53 k120 p153	h51 m3 r52	3 g51 n3 q52	51 n3 q52	4 4			g. Moved to roof 10/18/50. h. Installed 1/16/51. i. Minor move & type change 1952. j. Telepsychrometer (7') 9/2/53-1/1/60. Hygro. comm. 2300'SE of office 1/1/60. k. Raised 6/1/54. m. Moved to ground site 12/8/59. n. Moved to ground site 12/9/59. p. Effective 1/1/60. q. Moved 137' SE to roof 1/30/70 r. Moved 137' SE to roof 6/1/73 t. Type change 10/01/85
Baltimore-Washington International Airport	04/01/96	Present	NA	39° 10'	76° 41'	u193									S		ASOS Commissioned 04/01/96 u. Ground elevation

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\* NOTES: For earlier station history see previous edition.