

2005

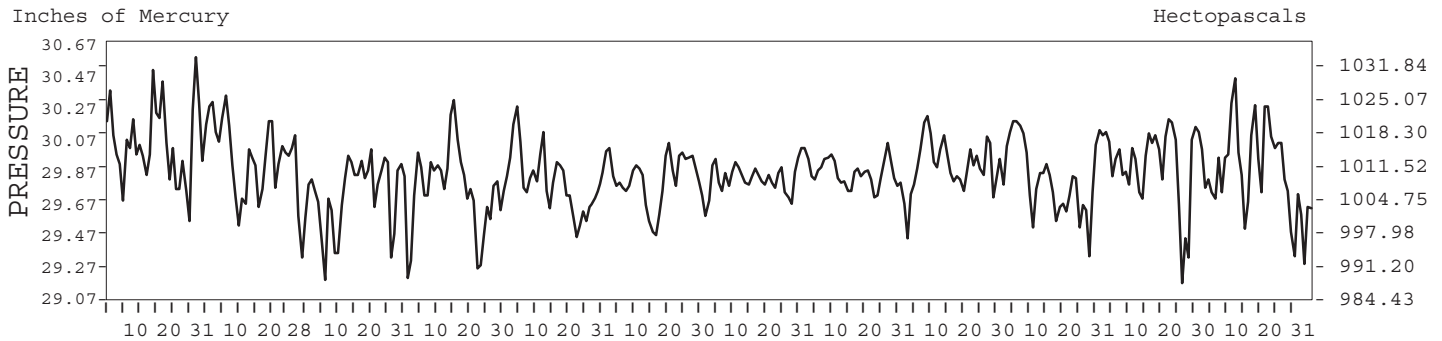
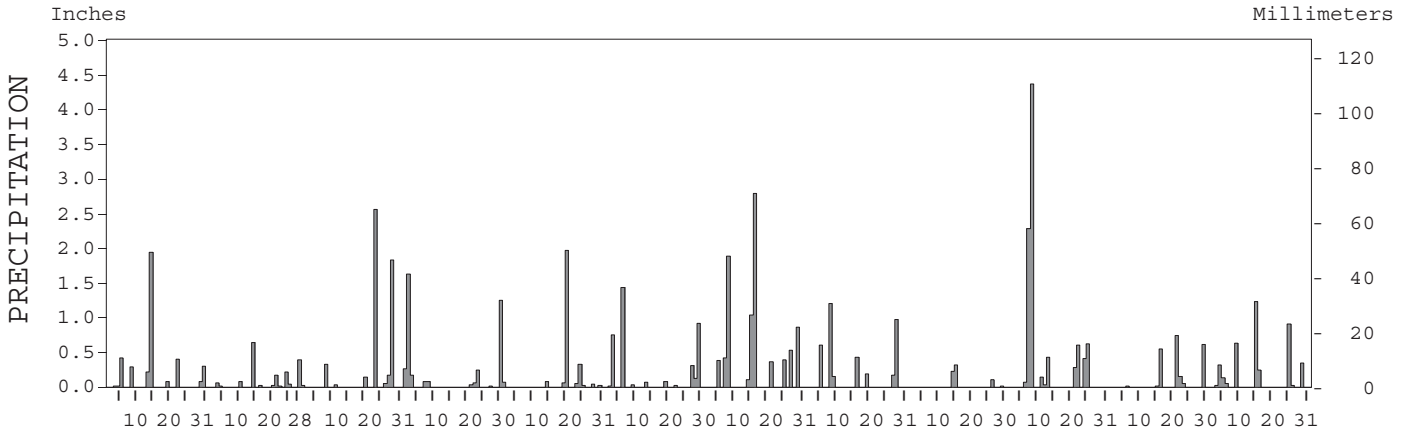
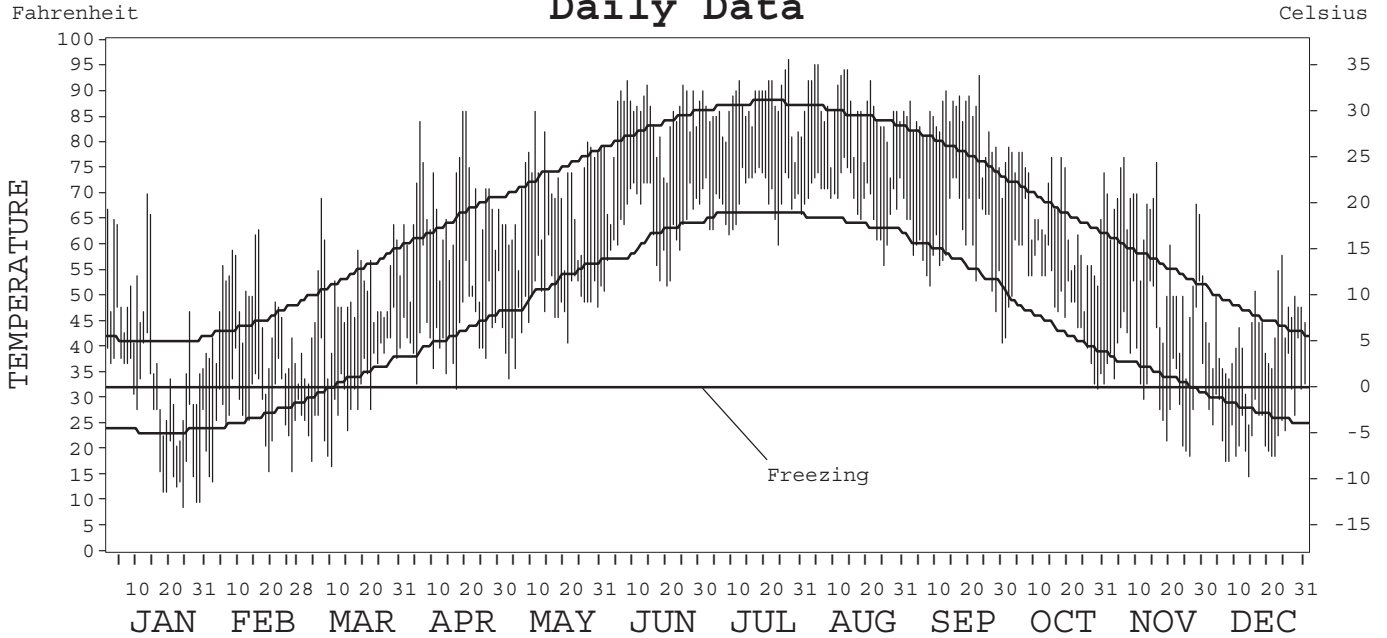
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-2397

BALTIMORE,
MARYLAND (BWI)

Daily Data



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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

BALTIMORE, MD (BWI)

LATITUDE: 39° 10' 20" N LONGITUDE: 76° 41' 02" W ELEVATION (FT): GRND: 193 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	41.5	46.0	49.4	66.7	70.2	83.6	86.9	86.3	83.5	66.4	59.6	42.3	65.2	
	HIGHEST DAILY MAXIMUM	70	63	69	86	86	92	96	95	93	79	77	58	96	
	DATE OF OCCURRENCE	13	16	07	20+	11	08	27	05+	23	02	06	24	JUL 27	
	MEAN DAILY MINIMUM	26.6	27.4	31.7	43.7	48.2	63.5	69.0	68.9	60.5	49.1	36.5	25.6	45.9	
	LOWEST DAILY MINIMUM	9	14	17	32	34	51	60	56	41	32	19	15	9	
	DATE OF OCCURRENCE	24	02	10	17	03	01	24	25	30	29	26	14	JAN 24	
	AVERAGE DRY BULB	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	
	MEAN WET BULB	30.6	31.8	35.3	47.4	52.2	66.8	71.2	71.0	63.6	53.2	43.0	30.0	49.7	
	MEAN DEW POINT	23.2	23.8	26.3	37.7	45.0	62.7	67.6	67.2	58.2	49.0	36.0	22.6	43.3	
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	0	6	12	9	2	0	0	0	0	29
	MAXIMUM ≤ 32°	9	1	0	0	0	0	0	0	0	0	0	2	12	
MINIMUM ≤ 32°	19	20	17	1	0	0	0	0	0	1	10	28	96		
MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	952	786	750	298	183	9	0	0	12	239	502	955	4686	
	COOLING DEGREE DAYS	0	0	0	13	10	273	408	399	227	20	0	0	1350	
RH	MEAN (PERCENT)	68	64	60	56	62	71	72	72	65	75	65	66	66	
	HOUR 01 LST	73	71	67	68	76	84	85	84	80	85	73	72	76	
	HOUR 07 LST	74	75	72	66	70	80	81	84	82	85	80	77	77	
	HOUR 13 LST	60	50	50	41	44	56	58	56	43	61	47	52	52	
	HOUR 19 LST	66	60	55	50	55	66	68	68	62	76	63	64	63	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	5	3	1	2	0	0	0	0	0	0	1	5	17	
	THUNDERSTORMS	0	0	2	3	2	4	7	2	0	0	1	0	21	
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.)	30.05	29.97	29.72	29.75	29.81	29.82	29.83	29.84	29.93	29.85	29.90	29.87	29.86	
	MEAN SEA-LEVEL PRESS. (IN.)	30.22	30.14	29.88	29.92	29.97	29.99	29.99	30.00	30.09	30.01	30.06	30.04	30.03	
WINDS	RESULTANT SPEED (MPH)	2.5	2.6	3.5	0.7	1.7	1.5	0.7	0.8	0.4	2.8	2.9	4.0	1.6	
	RES. DIR. (TENS OF DEGS.)	34	32	31	26	36	25	36	18	29	34	26	29	31	
	MEAN SPEED (MPH)	6.5	6.2	8.7	8.3	7.0	6.2	5.3	4.9	5.4	6.9	6.7	6.9	6.6	
	PREVAIL. DIR. (TENS OF DEGS.)	29	30	29	26	32	27	31	31	27	28	30	28	29	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	32	30	36	36	37	26	32	38	25	29	38	29	38	
	DIR. (TENS OF DEGS.)	29	30	29	28	08	31	30	27	30	27	30	28	30	
	DATE OF OCCURRENCE	14+	10	08	03	20	29	27	05	29	16	24	02	NOV 24	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	43	43	47	48	44	37	44	49	32	36	52	36	52	
DIR. (TENS OF DEGS.)	30	30	28	26	08	31	31	27	29	28	30	28	30		
DATE OF OCCURRENCE	14	10	08	03	20	29	27	05	29	16	24	27+	NOV 24		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	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	
	GREATEST 24-HOUR (IN.)	2.16	0.64	2.56	1.78	2.03	1.43	2.79	1.29	0.50	5.98	0.89	1.47	5.98	
	DATE OF OCCURRENCE	13-14	14	23	02-03	19-20	06	16	08-09	14-15	07-08	21-22	15-16	OCT 07-08	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	10	11	8	10	9	10	10	7	4	10	7	10	106	
PRECIPITATION ≥ 0.10	6	4	5	5	2	5	10	7	3	8	4	7	66		
PRECIPITATION ≥ 1.00	1	0	2	2	1	1	3	1	0	2	0	1	14		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	7.6	10.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	6.0	24.5	
	GREATEST 24-HOUR (IN.)	4.5	5.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.2	5.2	
	DATE OF OCCURRENCE	22	24	01								23	09	FEB 24	
	MAXIMUM SNOW DEPTH (IN.)	4	5	2	0	0	0	0	0	0	0	T	2	5	
	DATE OF OCCURRENCE	24+	24	01								23	09	FEB 24	
	NUMBER OF DAYS WITH:														
SNOWFALL ≥ 1.0	3	2	0	0	0	0	0	0	0	0	0	3	8		

NORMALS, MEANS, AND EXTREMES

BALTIMORE, MD (BWI)

LATITUDE: 39° 10' 20" N LONGITUDE: 76° 41' 02" W ELEVATION (FT): GRND: 193 BARO: 196 TIME ZONE: EASTERN (UTC + 5) WBAN: 93721

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	41.2	44.8	53.9	64.5	73.9	82.7	87.2	85.1	78.2	67.0	56.3	46.0	65.1
	MEAN DAILY MAXIMUM	55	41.4	44.8	53.3	65.1	74.3	83.1	87.2	85.4	78.6	67.4	56.4	45.2	65.2
	HIGHEST DAILY MAXIMUM	55	75	79	89	94	98	101	104	105	100	92	83	77	105
	YEAR OF OCCURRENCE		1975	2000	1998	1960	1991	1994	1988	1983	1983	1954	1974	1998	AUG 1983
	MEAN OF EXTREME MAXS.	55	62.5	65.9	76.2	85.3	89.8	94.9	96.9	95.3	92.0	83.0	74.8	65.3	81.8
	NORMAL DAILY MINIMUM	30	23.5	26.1	33.6	42.0	51.8	60.8	65.8	63.9	56.6	43.7	34.7	27.3	44.2
	MEAN DAILY MINIMUM	55	24.5	26.4	33.8	43.0	52.6	61.7	66.8	65.5	58.1	46.2	36.7	28.4	45.3
	LOWEST DAILY MINIMUM	55	-7	-3	6	20	32	40	50	45	35	25	13	0	-7
	YEAR OF OCCURRENCE		1984	1979	1960	1965	1966	1972	2001	1986	1963	1969	1955	1983	JAN 1984
	MEAN OF EXTREME MINS.	55	7.1	10.8	18.9	28.9	38.4	49.0	56.1	53.6	43.0	31.6	21.6	12.5	31.0
	NORMAL DRY BULB	30	32.3	35.5	43.7	53.2	62.9	71.8	76.5	74.5	67.4	55.4	45.5	36.7	54.6
	MEAN DRY BULB	55	32.9	35.7	43.5	54.0	63.3	72.4	77.1	75.6	68.5	56.8	46.6	36.8	55.3
	MEAN WET BULB	21	30.3	32.6	38.6	47.8	57.1	65.8	70.1	68.8	62.5	52.0	40.9	32.0	49.9
	MEAN DEW POINT	21	22.9	24.8	30.4	40.2	51.6	61.6	66.0	65.0	58.6	47.2	35.0	25.3	44.1
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	0.3	1.5	5.7	12.0	7.3	2.6	0.0	0.0	0.0	29.4	
MAXIMUM ≤ 32°	30	6.4	3.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.9	13.8	
MINIMUM ≤ 32°	30	24.4	20.5	13.3	3.0	0.0	0.0	0.0	0.0	0.0	1.4	10.4	20.6	93.6	
MINIMUM ≤ 0°	30	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	0.5	
H/C	NORMAL HEATING DEG. DAYS	30	1000	816	648	349	120	16	0	1	42	296	570	862	4720
	NORMAL COOLING DEG. DAYS	30	0	0	4	11	71	236	372	311	129	13	0	0	1147
RH	NORMAL (PERCENT)	30	66	63	61	60	67	69	70	72	73	72	68	67	67
	HOUR 01 LST	30	70	68	67	69	78	82	82	85	84	82	75	72	76
	HOUR 07 LST	30	73	72	72	72	77	79	80	84	86	85	79	75	78
	HOUR 13 LST	30	57	53	50	49	53	54	54	56	56	55	55	57	54
	HOUR 19 LST	30	64	59	55	54	61	63	64	68	70	70	66	65	63
S	PERCENT POSSIBLE SUNSHINE	40	51	55	56	56	56	62	64	62	60	58	51	49	57
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	56	3.1	3.3	2.6	1.8	1.7	0.9	0.8	1.0	1.3	2.5	2.6	3.1	24.7
	THUNDERSTORMS	56	0.3	0.2	0.8	2.4	4.1	5.4	5.9	4.9	2.1	1.0	0.4	0.1	27.6
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	46	5.1	5.0	5.0	5.0	5.0	4.6	4.4	4.4	4.2	4.1	4.8	5.0	4.7
	MIDNIGHT-MIDNIGHT (OKTAS)	32	4.9	4.7	4.8	4.6	4.7	4.4	4.3	4.2	4.2	3.9	4.5	4.8	4.5
	MEAN NO. DAYS WITH:														
	CLEAR	47	8.0	7.7	7.9	7.7	7.7	8.4	8.9	9.2	10.3	11.6	8.1	8.1	103.6
PARTLY CLOUDY	47	7.5	6.8	8.7	9.0	10.3	11.4	11.5	10.5	8.3	7.9	8.0	6.9	106.8	
CLOUDY	47	15.5	13.8	14.4	13.4	13.0	10.2	9.9	10.6	10.7	10.9	13.2	15.3	150.9	
PR	MEAN STATION PRESSURE (IN)	32	29.90	29.91	29.88	29.80	29.80	29.80	29.80	29.90	29.90	29.90	29.91	29.91	29.87
	MEAN SEA-LEVEL PRES. (IN)	21	30.11	30.10	30.04	29.99	29.99	29.97	30.00	30.03	30.06	30.11	30.10	30.13	30.05
WINDS	MEAN SPEED (MPH)	55	9.3	9.7	10.5	10.2	8.8	8.3	7.7	7.5	7.9	8.0	8.9	9.0	8.8
	PREVAIL. DIR (TENS OF DEGS)	20	29	30	29	29	28	26	25	27	27	27	28	29	29
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	9	40	40	41	36	39	39	40	39	44	37	45	45	45
	DIR. (TENS OF DEGS)		30	29	28	28	29	27	28	32	09	28	28	27	27
	YEAR OF OCCURRENCE		2000	2001	1997	2005	1997	2004	2002	2003	2003	2003	2003	2004	DEC 2004
	MAXIMUM 5-SECOND:														
SPEED (MPH)	9	53	49	53	52	51	47	48	53	55	45	59	56	59	
DIR. (TENS OF DEGS)		28	28	28	15	31	27	28	27	05	27	27	28	27	
YEAR OF OCCURRENCE		1999	2003	1997	2002	2002	2004	2002	1997	2003	2003	2003	2004	NOV 2003	
PRECIPITATION	NORMAL (IN)	30	3.47	3.02	3.93	3.00	3.89	3.43	3.85	3.74	3.98	3.16	3.12	3.35	41.94
	MAXIMUM MONTHLY (IN)	55	7.84	7.16	8.64	8.15	8.71	9.95	8.77	18.35	11.50	9.23	7.68	7.44	18.35
	YEAR OF OCCURRENCE		1979	1979	1994	1952	1989	1972	2005	1955	1999	2005	1952	1969	AUG 1955
	MINIMUM MONTHLY (IN)	55	0.29	0.36	0.93	0.39	0.37	0.15	0.30	0.77	0.21	T	0.31	0.20	T
	YEAR OF OCCURRENCE		1955	2002	1966	1985	1986	1954	1955	1951	1967	1963	1981	1955	OCT 1963
	MAXIMUM IN 24 HOURS (IN)	55	3.11	3.26	3.18	2.80	3.64	5.23	5.86	8.35	6.04	5.98	3.43	3.39	8.35
	YEAR OF OCCURRENCE		1976	1983	1958	1952	1960	1972	1952	1955	1985	2005	1952	1977	AUG 1955
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	10.8	9.3	10.4	10.2	11.5	10.0	10.0	9.1	8.4	8.2	8.9	9.7	116.5	
PRECIPITATION ≥ 1.00	30	0.8	0.7	0.9	0.6	0.7	1.0	1.1	1.0	1.0	1.0	0.7	0.9	10.4	
SNOWFALL	NORMAL (IN)	30	7.0	6.4	2.4	0.1	0.0	0.0	0.0	0.0	0.*	0.6	1.7	18.2	
	MAXIMUM MONTHLY (IN)	55	32.6	40.5	21.6	0.7	T	T	T	0.0	0.0	0.3	8.4	20.4	40.5
	YEAR OF OCCURRENCE		1996	2003	1960	1985	1963	2002	1992		1979	1967	1966	FEB 2003	
	MAXIMUM IN 24 HOURS (IN)	55	16.8	22.8	13.0	0.7	T	T	T	0.0	0.0	0.3	8.4	14.1	22.8
	YEAR OF OCCURRENCE		1996	1983	1962	1985	1963	2002	1992		1979	1967	1960	FEB 1983	
	MAXIMUM SNOW DEPTH (IN)	54	30	23	70	0	0	0	0	0	0	0	6	12	70
	YEAR OF OCCURRENCE		1957	1983	1960								1987	1960	MAR 1960
NORMAL NO. DAYS WITH:															
SNOWFALL ≥ 1.0	30	1.8	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	4.4	

PRECIPITATION (inches) 2005 BALTIMORE, MD (BWI)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1976	4.10	2.16	2.23	1.27	5.03	2.49	5.56	2.98	6.93	8.09	0.56	2.04	43.44
1977	1.36	0.63	3.93	3.05	1.49	3.44	2.62	3.31	0.62	5.17	5.01	5.76	36.39
1978	7.34	0.56	4.74	1.26	5.49	2.81	6.83	3.39	1.03	0.71	2.70	4.63	41.49
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
POR= 55 YRS	3.10	2.98	3.92	3.22	3.68	3.60	4.00	4.00	3.58	3.11	3.13	3.34	41.66

WBAN : 93721

AVERAGE TEMPERATURE (°F) 2005 BALTIMORE, MD (BWI)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1976	30.8	44.1	48.1	56.9	62.1	74.8	75.0	73.9	67.5	52.9	40.9	32.6	55.0
1977	22.9	36.5	50.0	57.9	66.7	71.4	79.0	77.7	72.1	56.0	49.2	35.6	56.3
1978	29.2	27.3	41.7	54.2	62.4	73.1	75.9	78.1	69.7	56.1	48.7	40.2	54.7
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
POR= 55 YRS	32.8	35.7	43.6	53.9	63.3	72.4	77.0	75.5	68.6	56.7	46.5	36.9	55.2

HEATING DEGREE DAYS (base 65°F) 2005 BALTIMORE, MD (BWI)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1976-77	0	0	34	377	716	1001	1296	790	469	245	62	18	5008
1977-78	0	0	9	278	476	904	1101	1048	715	318	141	9	4999
1978-79	0	0	33	280	483	763	984	1100	520	354	75	6	4598
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-	0	0	12	239	502	955							

WBAN : 93721

COOLING DEGREE DAYS (base 65°F) 2005 BALTIMORE, MD (BWI)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1976	0	1	0	58	51	315	317	284	114	9	0	0	1149
1977	0	0	10	37	124	217	439	401	229	7	10	0	1474
1978	0	0	0	0	63	260	344	413	182	12	0	0	1274
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

SNOWFALL (inches) 2005 BALTIMORE, MD (BWI)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1976-77	0.0	0.0	0.0	0.0	1.1	1.5	8.5	T	T	T	0.0	0.0	11.1
1977-78	0.0	0.0	0.0	T	0.6	0.5	12.4	12.3	8.5	T	0.0	0.0	34.3
1978-79	0.0	0.0	0.0	0.0	3.7	0.0	5.7	33.1	T	T	0.0	0.0	42.5
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		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-	0.0	0.0	0.0	0.0	0.5	6.0							
POR= 54 YRS	T	0.0	0.0	0.0	1.0	3.3	6.2	6.9	3.3	0.1	T	0.0	20.8

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>
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2005 BALTIMORE, MARYLAND (BWI)

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, MARYLAND

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE										AUTOMATIC OBSERVING EQUIPMENT *	* TYPE M = AMOS T = AUTOB S = ASOS W = AWOS REMARKS
						SEA LEVEL		GROUND									
						GROUND	TEMPERATURE	WIND INSTRUMENT	EXTREME THERMOMETER	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET	RAIN GAUGE	WINDHINDER RAIN GAUGE	8 INCH RAIN GAUGE		
*NOTES: <u>AIRPORT</u>																	
+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 Int'l Airport	04/01/96	Present	NA	39°10'	76°41'	u193										S	ASOS Commissioned 04/01/96 u. Ground elavation

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* NOTES: For earlier station history see previous edition.