

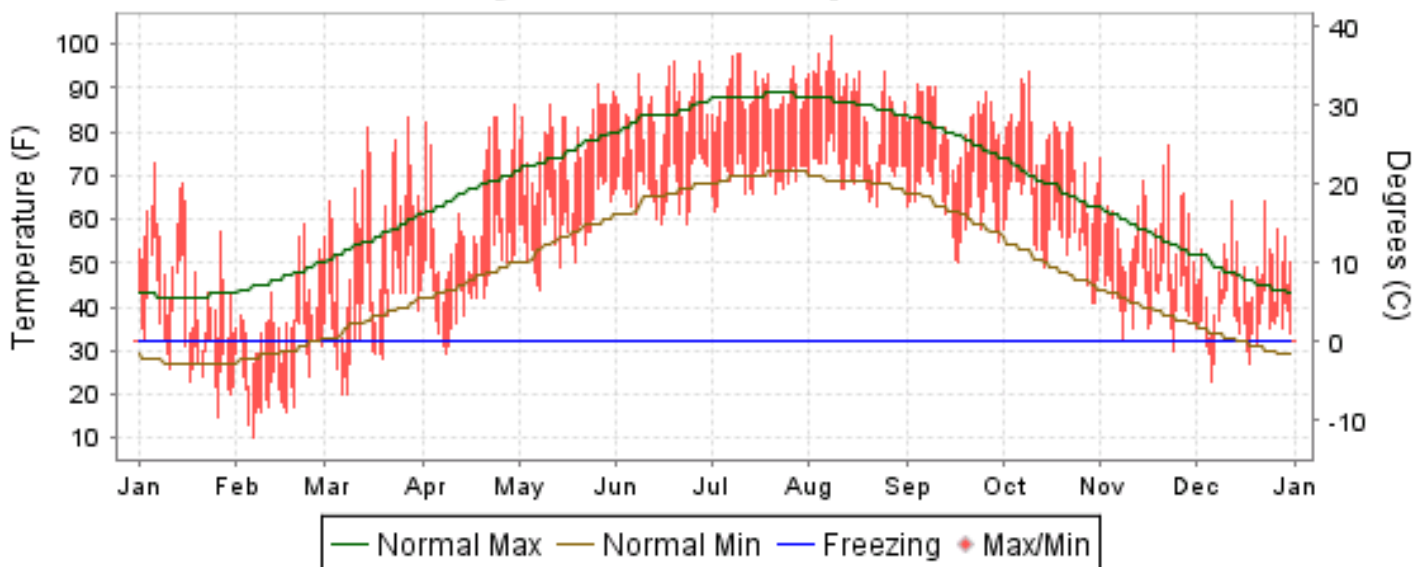


# 2007 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

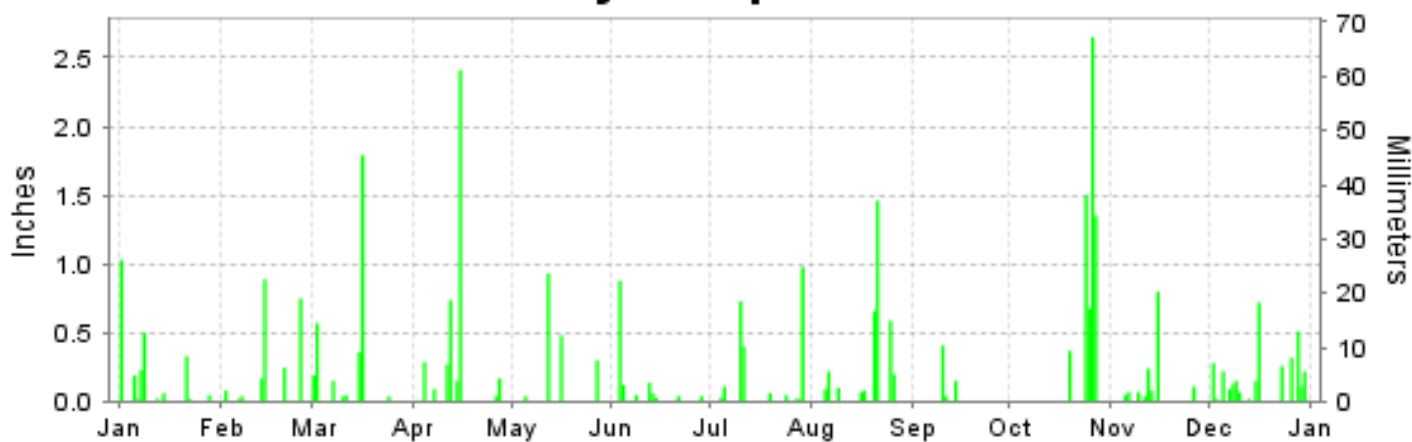
WASHINGTON,  
D.C. (KDCA)

ISSN 0198-1196

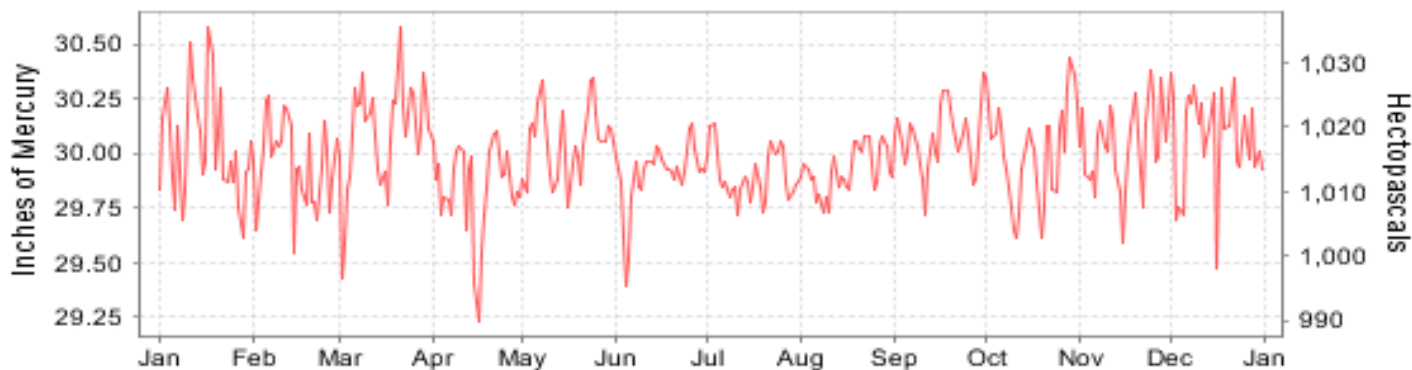
## Daily Max/Min Temperature



## 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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NATIONAL  
ENVIRONMENTAL SATELLITE, DATA  
AND INFORMATION SERVICE

NATIONAL  
CLIMATIC DATA CENTER  
ASHEVILLE, NORTH CAROLINA

*Thomas R. Karl*  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2007

## WASHINGTON (KDCA)

LATITUDE: 38° 51'N      LONGITUDE: -77° 2'W      ELEVATION (FT): GRND: 10      BARO: 3      TIME ZONE: EASTERN (UTC -5)      WBAN: 13743

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	48.2	38.1	58.0	62.6	77.6	85.0	88.8	88.3	82.3	76.4	57.7	47.7	67.6	
	HIGHEST DAILY MAXIMUM	73	59	83	86	91	96	98	102	91	94	77	64	102	
	DATE OF OCCURRENCE	06	22	27	30	26	27+	10+	08	04	09	22	23+	AUG 08	
	MEAN DAILY MINIMUM	33.2	23.6	37.4	44.6	58.0	67.2	69.7	71.1	63.5	57.7	41.8	35.9	50.3	
	LOWEST DAILY MINIMUM	15	10	20	29	44	59	62	63	50	41	30	23	10	
	DATE OF OCCURRENCE	26	06	08+	08	08	23+	02	22	17	30+	24	06	FEB 06	
	AVERAGE DRY BULB	40.7	30.9	47.7	53.6	67.8	76.1	79.3	79.7	72.9	67.1	49.8	41.8	59.0	
	MEAN WET BULB	36.0	26.2	40.9	46.0	58.6	66.4	67.7	70.3	64.4	59.7	43.2	37.4	51.4	
	MEAN DEW POINT	27.9	15.2	31.1	37.1	51.4	60.6	60.9	65.5	58.6	53.9	34.8	30.5	44.0	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	1	7	14	15	4	3	0	0	44	
MAXIMUM <= 32°	1	6	1	0	0	0	0	0	0	0	0	0	8		
MINIMUM <= 32°	20	25	10	3	0	0	0	0	0	0	1	7	66		
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	746	950	535	353	53	0	0	0	10	74	451	713	3885	
	COOLING DEGREE DAYS	0	0	5	19	150	341	451	462	254	146	0	0	1828	
RH	MEAN (PERCENT)	63	56	56	57	58	62	57	66	64	67	60	67	61	
	HOUR 01 LST	68	62	66	69	71	74	71	78	78	78	68	71	71	
	HOUR 07 LST	71	63	67	63	62	68	63	72	72	76	69	72	68	
	HOUR 13 LST	54	47	42	46	44	48	43	51	45	49	49	60	48	
	HOUR 19 LST	63	51	54	49	57	59	55	64	63	65	57	66	59	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	0	2	1	0	1	0	0	0	0	0	1	3	8	
	THUNDERSTORMS	0	1	0	3	3	7	7	5	1	1	0	0	28	
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.)	29.85	29.96	30.09	29.85	30.06	29.90	29.90	29.91	30.06	30.01	30.03	30.08	29.98	
	MEAN SEA-LEVEL PRESS. (IN.)	29.93	30.03	30.17	29.92		29.97	29.97	29.99	30.13	30.09	30.11	30.15		
WINDS	RESULTANT SPEED (MPH)	4.3	5.9	1.7	4.0	1.4	0.8	1.7	0.2	1.4	1.3	2.3	1.6	1.6	
	RES. DIR. (TENS OF DEGS.)	28	31	29	32	17	24	21	08	18	23	28	32	29	
	MEAN SPEED (MPH)	9.1	9.9	10.2	9.5	8.6	7.8	7.5	7.2	7.1	7.3	8.5	7.6	8.4	
	PREVAIL.DIR.(TENS OF DEGS.)	19	31	18	30	17	17	18	17	17	17	19	18	17	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	33	37	37	38	33	30	28	33	25	33	36	36	38	
	DIR. (TENS OF DEGS.)	32	30	33	31	34	34	29	36	34	30	31	31	31	
	DATE OF OCCURRENCE	29	22	06	16	12	08	10	09	15	19	22	17	APR 16	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	43	55	44	52	41	37	45	44	31	44	51	53	55	
DIR. (TENS OF DEGS.)	32	32	33	33	34	35	10	18	32	29	30	28	32		
DATE OF OCCURRENCE	29	22	06	16	12	08	19	25	28	19	22	03	FEB 22		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	2.46	2.22	3.19	4.17	1.75	1.38	2.40	3.47	0.60	6.55	1.46	3.28	32.93	
	GREATEST 24-HOUR (IN.)	1.03	1.06	2.00	2.55	0.93	0.99	0.98	1.46	0.45	3.98	0.80	0.87	3.98	
	DATE OF OCCURRENCE	01	13-14	15-16	14-15	12	03-04	29	21	10-11	26-27	15	15-16	OCT 26-27	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	11	9	8	9	4	10	9	9	3	5	8	16	101	
PRECIPITATION 0.10	5	4	5	6	3	3	4	6	2	5	3	11	57		
PRECIPITATION 1.00	1	0	1	1	0	0	0	1	0	3	0	0	7		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	1.3	5.9	1.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	12.1	
	GREATEST 24-HOUR (IN.)	1.2	2.9	1.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	2.9	
	DATE OF OCCURRENCE	21	25	07	07								05	FEB 25	
	MAXIMUM SNOW DEPTH (IN.)	1	3	2	T	0	0	0	0	0	0	0	3	3	
	DATE OF OCCURRENCE	22	26	08	07								06	DEC 06	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	1	2	1	0	0	0	0	0	0	0	0	1	5		

# NORMALS, MEANS, AND EXTREMES WASHINGTON (KDCA)

LATITUDE:  
38 ° 51'N

LONGITUDE:  
-77 ° 2 'W

ELEVATION (FT):  
GRND: 10 BARO: 3

TIME ZONE:  
EASTERN (UTC -5)

WBAN: 13743

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	42.5	46.5	55.7	66.3	75.4	83.9	88.3	86.3	79.3	68.0	57.3	47.0	66.4
	MEAN DAILY MAXIMUM	62	43.5	46.6	55.4	66.7	75.6	83.7	87.9	86.2	79.5	68.9	57.7	46.7	66.5
	HIGHEST DAILY MAXIMUM	66	79	82	89	95	99	101	104	105	101	94	86	79	105
	YEAR OF OCCURRENCE		1950	1948	1990	2002	1991	1994	1988	1997	1980	2007	1974	1998	AUG 1997
	MEAN OF EXTREME MAXS.	62	65.0	67.1	77.6	86.0	90.2	95.0	96.8	95.5	92.0	83.8	75.4	66.0	82.5
	NORMAL DAILY MINIMUM	30	27.3	29.7	37.3	45.9	55.8	65.0	70.1	68.6	61.8	49.6	40.0	32.0	48.6
	MEAN DAILY MINIMUM	62	28.4	29.9	37.0	46.5	56.2	65.2	70.3	69.0	62.1	50.3	40.5	31.9	48.9
	LOWEST DAILY MINIMUM	66	-5	4	11	24	34	47	54	49	39	29	16	1	-5
	YEAR OF OCCURRENCE		1982	1961	1943	1982	1947	1972	1988	1986	1963	1969	1955	1942	JAN 1982
	MEAN OF EXTREME MINS.	62	12.7	15.4	22.8	33.2	43.7	53.7	61.1	58.8	48.5	36.9	27.0	17.6	36.0
	NORMAL DRY BULB	30	34.9	38.1	46.5	56.1	65.6	74.5	79.2	77.4	70.5	58.8	48.7	39.5	57.5
	MEAN DRY BULB	62	36.0	38.3	46.2	56.6	65.9	74.6	79.1	77.7	70.8	59.6	49.1	39.3	57.8
	MEAN WET BULB	24	31.7	33.2	39.5	48.8	58.1	66.6	70.7	69.8	63.7	53.4	43.7	35.1	51.2
	MEAN DEW POINT	24	25.3	26.6	32.6	42.5	53.6	62.8	67.1	66.6	60.1	49.1	38.4	29.0	46.1
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.5	1.5	6.9	14.5	9.9	3.3	0.1	0.0	0.0	36.7
	MAXIMUM <= 32	30	4.6	2.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	2.1	9.3
MINIMUM <= 32	30	20.7	16.9	7.7	0.6	0.0	0.0	0.0	0.0	0.0	0.2	4.4	13.9	64.4	
MINIMUM <= 0	30	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	
H/C	NORMAL HEATING DEG. DAYS	30	917	742	563	272	73	5	0	7	19	205	477	775	4055
	NORMAL COOLING DEG. DAYS	30	0	0	4	21	107	304	456	407	200	28	4	0	1531
RH	NORMAL (PERCENT)	30	64	63	60	60	66	68	68	70	71	70	66	66	66
	HOURLY 01 LST	30	68	68	66	68	76	78	78	81	81	79	73	70	74
	HOURLY 07 LST	30	71	72	71	70	76	76	77	81	82	81	77	73	76
	HOURLY 13 LST	30	57	53	50	49	54	54	54	56	57	55	55	57	54
	HOURLY 19 LST	30	62	58	54	52	60	62	62	65	67	66	62	62	61
S	PERCENT POSSIBLE SUNSHINE	50	46	50	55	57	58	64	62	62	61	59	51	46	56
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	44	1.7	1.3	0.7	0.5	0.4	0.3	0.2	0.0	0.2	1.0	1.0	1.3	8.6
	THUNDERSTORMS	62	0.3	0.3	1.1	2.7	4.9	6.2	7.0	5.2	2.4	1.0	0.6	0.1	31.8
CLOUDNESS	MEAN: SUNRISE-SUNSET (OKTAS)	50	5.4	5.2	5.2	5.1	5.1	4.8	4.8	4.6	4.6	4.3	5.0	5.2	4.9
	MIDNIGHT-MIDNIGHT (OKTAS)	34	5.1	5.0	5.0	4.8	5.0	4.7	4.8	4.5	4.5	4.2	4.7	5.1	4.8
	MEAN NO. DAYS WITH: CLEAR	50	7.2	7.0	7.5	7.1	6.9	7.3	7.4	8.6	9.4	10.7	7.7	7.9	94.7
	PARTLY CLOUDY	50	7.4	6.7	8.3	9.1	10.1	11.4	11.8	10.2	8.4	7.9	7.8	6.6	105.7
	CLOUDY	50	16.4	14.5	15.2	13.9	14.0	11.4	11.4	11.7	11.6	11.9	13.8	15.9	161.7
PR	MEAN STATION PRESSURE(IN)	24	30.03	30.03	29.99	29.92	29.93	29.92	29.93	29.96	30.00	30.03	30.05	30.06	29.99
	MEAN SEA-LEVEL PRES. (IN)	24	30.10	30.10	30.06	29.98	29.99	29.99	30.00	30.03	30.07	30.10	30.12	30.12	30.06
WINDS	MEAN SPEED (MPH)	24	9.8	9.8	10.7	10.1	9.3	8.9	8.3	8.1	8.5	8.5	9.2	9.2	9.2
	PREVAIL.DIR.(TENS OF DEGS)	38	34	33	33	19	19	19	19	19	19	19	19	34	19
	MAXIMUM 2-MINUTE: SPEED (MPH)	9	43	39	44	39	39	49	47	41	45	37	43	40	49
	DIR. (TENS OF DEGS)		32	33	33	31	31	31	05	35	11	29	33	29	31
	YEAR OF OCCURRENCE		2006	2002	2002	2000	2002	1999	2000	2003	2003	2006	2005	2004	JUN 1999
	MAXIMUM 5-SECOND SPEED (MPH)	9	55	55	53	52	55	60	53	47	58	51	54	53	60
	DIR. (TENS OF DEGS)		31	32	31	33	25	31	27	34	13	26	35	28	31
	YEAR OF OCCURRENCE		2000	2007	2004	2007	2000	1999	2006	2003	2003	2004	2003	2007	JUN 1999
PRECIPITATION	NORMAL (IN)	30	3.21	2.63	3.60	2.77	3.82	3.13	3.66	3.44	3.79	3.22	3.03	3.05	39.35
	MAXIMUM MONTHLY (IN)	66	7.11	5.71	8.45	6.88	10.69	14.02	11.06	14.31	12.36	9.41	6.70	6.54	14.31
	YEAR OF OCCURRENCE		1978	1961	1994	1983	1953	2006	1945	1955	1975	2005	1963	1969	AUG 1955
	MINIMUM MONTHLY (IN)	66	0.31	0.42	0.05	0.03	0.75	0.95	0.93	0.55	.11	T	0.29	0.22	T
	YEAR OF OCCURRENCE		1955	1978	2006	1985	1986	1988	1966	1962	2005	1963	1981	1955	OCT 1963
	MAXIMUM IN 24 HOURS (IN)	66	2.13	2.56	3.43	3.08	4.32	7.94	4.69	6.39	5.31	5.91	4.03	2.86	7.94
	YEAR OF OCCURRENCE		1976	2003	1958	1970	1953	2006	1970	1955	1975	2005	1993	1977	JUN 2006
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	10.5	9.3	10.6	9.6	11.2	10.2	10.4	8.6	8.1	7.8	8.5	9.5	114.3
	PRECIPITATION >= 1.00	30	0.7	0.4	0.9	0.5	0.8	0.7	1.0	1.1	1.1	1.0	0.8	0.6	9.6
SNOWFALL	NORMAL (IN)	30	6.2	5.2	1.6	0.*	0.0	0.0	0.0	0.0	0.0	0.*	0.7	1.5	15.2
	MAXIMUM MONTHLY (IN)	64	23.8	30.6	17.1	0.6	T	T	T	T	0.0	0.3	11.5	16.2	30.6
	YEAR OF OCCURRENCE		1996	1979	1960	1972	1993	1998	2006	1996		1979	1987	1962	FEB 1979
	MAXIMUM IN 24 HOURS (IN)	64	13.8	18.7	8.4	0.6	T	T	T	T	0.0	0.3	11.5	11.4	18.7
	YEAR OF OCCURRENCE		1966	1979	1999	1972	1993	1998	1990	1992		1979	1987	1957	FEB 1979
	MAXIMUM SNOW DEPTH (IN)	61	18	22	8	1	0	0	0	0	0	0	12	8	22
	YEAR OF OCCURRENCE		1987	1979	1960	1972							1987	1973	FEB 1979
	NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	1.6	1.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	3.8

**PRECIPITATION (inches) 2007 WASHINGTON (KDCA)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1978	7.11	0.42	4.48	1.38	5.13	2.43	4.28	5.85	1.01	1.16	2.31	4.00	39.56
1979	6.64	5.62	2.45	1.88	3.55	2.99	3.43	5.41	6.64	5.54	2.33	0.85	47.33
1980	2.85	1.16	5.04	3.28	2.64	1.68	3.86	1.11	1.90	2.59	2.56	0.65	29.32
1981	0.38	2.82	1.49	2.63	3.42	2.55	5.69	3.02	1.94	3.64	0.29	2.80	30.67
1982	2.27	3.33	2.64	3.19	5.11	5.41	2.98	2.68	1.71	1.75	2.96	1.74	35.77
1983	1.69	3.09	4.84	6.88	4.62	7.09	1.78	3.11	2.90	4.87	5.09	5.91	51.87
1984	1.71	3.43	6.14	3.71	3.80	2.01	4.09	2.30	2.51	3.18	3.66	1.19	37.73
1985	2.11	3.07	1.88	0.03	5.79	2.05	2.91	2.35	6.67	3.85	4.47	0.68	35.86
1986	2.38	3.49	0.74	1.98	0.75	1.29	3.79	5.33	0.60	2.01	5.23	4.98	32.57
1987	4.90	2.11	1.54	2.28	2.54	3.90	2.59	2.07	5.11	2.53	4.49	2.57	36.63
1988	3.14	2.52	2.27	2.00	4.50	0.95	3.74	2.39	1.85	1.75	5.33	1.30	31.74
1989	2.49	2.80	4.30	3.50	7.77	6.02	5.66	1.15	6.68	5.48	2.37	2.10	50.32
1990	2.95	1.30	2.57	4.09	5.20	3.14	3.78	6.74	0.87	3.30	2.17	4.73	40.84
1991	2.90	0.83	4.42	1.39	1.57	1.27	3.76	2.03	3.50	2.03	0.85	5.07	29.62
1992	2.78	2.23	3.48	2.55	3.41	2.35	5.34	2.48	3.49	2.03	3.38	2.86	36.38
1993	2.90	2.27	6.82	3.62	3.40	1.73	1.36	3.87	3.68	2.62	4.76	4.38	41.41
1994	4.28	4.20	8.45	1.58	1.56	1.59	3.61	4.35	2.84	1.19	1.57	2.35	37.57
1995	3.22	1.71	2.14	1.89	4.19	2.42	4.03	0.88	3.73	8.65	4.77	2.17	39.80
1996	5.01	1.99	3.60	3.17	4.96	3.14	5.60	2.63	7.79	4.04	3.58	5.51	51.02
1997	2.55	2.43	4.15	2.41	3.04	2.94	1.14	3.51	1.59	3.72	4.60	1.74	33.82
1998	5.43	5.23	5.40	3.96	4.05	4.42	1.79	0.59	1.83	0.59	0.91	1.74	35.94
1999	5.42	2.54	3.87	2.09	1.28	2.26	1.01	5.02	10.27	2.16	1.82	2.49	40.23
2000	3.66	2.06	3.98	5.13	3.08	4.93	5.51	3.77	4.91	0.02	1.60	2.01	40.66
2001	2.22	1.83	3.88	1.68	3.71	4.69	4.78	2.98	1.41	0.69	0.55	1.53	29.95
2002	1.32	0.47	3.37	3.47	2.17	3.81	2.20	1.63	2.10	5.00	4.34	4.45	34.33
2003	2.41	5.68	4.20	2.55	7.06	7.87	5.76	4.65	6.87	3.93	4.23	4.32	59.53
2004	1.35	2.28	2.09	3.84	2.98	4.60	6.98	5.09	3.99	1.74	4.50	3.05	42.49
2005	3.31	1.63	4.46	4.33	4.61	2.87	6.06	2.33	0.11	9.41	1.92	3.34	44.38
2006	3.25	2.46	0.05	3.10	2.21	14.02	3.56	1.03	6.31	5.06	5.16	1.56	47.77
2007	2.46	2.22	3.19	4.17	1.75	1.38	2.40	3.47	0.60	6.55	1.46	3.28	32.93
POR= 62 YRS	2.88	2.57	3.45	2.91	3.79	3.56	3.99	3.87	3.45	3.08	3.01	3.06	39.62

WBAN : 13743

**AVERAGE TEMPERATURE (°F) 2007 WASHINGTON (KDCA)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1978	32.5	31.4	44.4	57.7	65.8	76.7	78.8	81.3	73.6	59.4	52.2	43.1	58.1
1979	35.1	28.4	51.5	56.0	67.7	72.4	78.6	78.5	71.6	58.6	54.4	43.7	58.0
1980	37.2	36.1	46.2	60.1	69.5	74.8	82.3	82.8	77.1	59.9	48.6	39.8	59.5
1981	33.0	43.7	47.6	62.1	66.2	78.7	80.2	77.0	71.0	58.3	51.4	38.5	59.0
1982	28.1	38.3	45.7	54.0	69.0	72.8	80.3	75.4	70.6	60.2	51.8	45.5	57.6
1983	38.1	38.7	48.8	53.3	64.9	75.0	81.2	81.0	72.6	60.5	50.3	36.0	58.4
1984	32.2	43.8	41.8	54.9	64.9	76.9	76.5	77.8	68.3	65.2	46.0	45.6	57.8
1985	30.8	37.8	47.7	61.6	68.1	72.3	79.0	76.7	71.9	61.2	54.3	36.4	58.2
1986	35.4	35.3	47.4	56.2	68.1	76.6	81.1	74.6	70.9	61.1	46.5	39.8	57.8
1987	34.7	37.0	47.7	54.8	67.2	76.4	82.6	78.7	72.1	54.4	49.9	41.5	58.1
1988	31.0	37.3	47.2	54.4	65.8	74.4	81.9	80.7	68.9	54.4	49.9	38.7	57.1
1989	39.9	37.8	46.1	55.4	64.1	76.8	78.3	77.1	71.4	60.5	48.0	27.9	56.9
1990	43.6	45.2	50.2	56.8	64.3	75.0	79.4	76.5	69.6	62.8	52.0	44.5	60.0
1991	38.6	43.0	48.8	58.2	73.0	76.8	81.4	80.0	71.0	60.4	48.8	42.3	60.2
1992	38.2	41.2	45.0	55.4	62.3	71.7	79.5	74.0	69.2	56.0	48.8	39.6	56.7
1993	39.7	34.3	42.2	54.8	67.4	75.3	83.1	79.6	71.0	58.1	48.8	38.1	57.7
1994	28.8	36.3	45.4	62.0	63.1	79.4	81.8	75.5	70.2	59.1	53.4	44.2	58.3
1995	39.6	34.4	49.2	56.3	65.8	74.6	81.5	81.3	71.0	62.3	43.1	35.6	57.9
1996	32.9	37.3	42.9	56.8	63.9	77.2	77.6	76.5	70.6	59.4	44.1	43.0	56.9
1997	37.0	44.7	48.7	54.0	62.9	73.1	80.4	77.6	70.5	59.6	46.2	41.0	58.0
1998	43.0	43.4	46.9	57.4	67.5	73.0	78.9	79.4	75.4	60.1	50.3	44.4	60.0
1999	38.2	41.0	44.5	56.5	67.3	74.7	83.0	79.7	70.0	57.2	53.1	42.0	58.9
2000	35.9	42.5	51.7	55.6	67.8	74.7	74.7	75.1	67.6	60.2	46.7	31.8	57.0
2001	35.5	40.9	43.8	57.6	65.9	75.2	75.3	78.9	68.9	59.7	54.8	45.5	58.5
2002	41.6	42.6	47.7	60.0	65.2	76.1	80.9	81.1	73.0	58.7	47.1	37.2	59.3
2003	31.1	33.7	47.1	55.1	61.7	71.4	77.8	78.8	70.5	57.5	53.1	39.2	56.4
2004	30.6	38.2	48.8	57.4	71.8	73.4	78.6	75.9	71.6	58.3	51.0	40.1	58.0
2005	36.1	39.6	43.1	57.3	61.9	75.7	80.5	80.1	75.0	60.5	50.2	36.4	58.0
2006	43.1	38.6	47.9	59.5	65.1	74.5	80.4	80.6	67.8	57.3	50.7	44.2	59.1
2007	40.7	30.9	47.7	53.6	67.8	76.1	79.3	79.7	72.9	67.1	49.8	41.8	59.0
POR= 62 YRS	36.0	38.3	46.2	56.6	65.9	74.6	79.1	77.7	70.8	59.6	49.1	39.3	57.8

**HEATING DEGREE DAYS (base 65°F) 2007 WASHINGTON (KDCA)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1978-79	0	0	9	192	378	671	918	1019	425	273	30	0	3915
1979-80	0	0	5	231	313	654	857	830	573	149	28	0	3640
1980-81	0	0	4	189	487	774	984	592	536	133	75	0	3774
1981-82	0	0	19	219	399	818	1135	743	592	328	19	3	4275
1982-83	0	2	9	193	402	597	827	730	497	365	77	0	3699
1983-84	0	0	32	177	433	890	1009	610	710	302	95	4	4262
1984-85	0	0	54	59	561	594	1053	757	533	166	30	6	3813
1985-86	0	0	14	147	320	879	913	824	542	267	61	3	3970
1986-87	0	13	18	180	548	775	931	777	527	304	68	0	4141
1987-88	0	0	4	325	448	719	1047	796	544	317	69	25	4294
1988-89	0	0	18	330	442	807	771	755	596	297	112	0	4128
1989-90	0	0	35	167	507	1144	656	550	481	285	64	4	3893
1990-91	0	0	38	153	381	630	810	608	502	237	22	0	3381
1991-92	0	0	27	175	486	696	824	686	614	295	127	5	3935
1992-93	0	0	43	282	477	781	779	855	700	307	32	3	4259
1993-94	0	0	33	217	487	825	1115	796	599	135	132	0	4339
1994-95	0	0	5	190	348	639	782	853	485	274	59	0	3635
1995-96	0	0	30	144	651	901	993	798	675	268	131	0	4591
1996-97	0	0	9	182	617	677	861	564	499	322	110	30	3871
1997-98	0	0	14	232	557	737	675	596	581	229	50	11	3682
1998-99	0	0	4	153	433	638	824	667	630	251	34	3	3637
1999-00	0	0	22	240	348	707	896	649	408	280	46	2	3598
2000-01	0	0	60	171	544	1022	908	670	654	246	54	4	4591
2001-02	0	0	44	207	302	598	717	621	532	225	101	0	3347
2002-03	0	0	1	257	531	855	1043	871	549	303	128	15	4553
2003-04	0	0	13	231	366	791	1062	771	494	267	34	4	4033
2004-05	0	0	7	209	414	766	887	702	675	240	121	4	4025
2005-06	0	0	5	179	439	881	672	733	529	174	81	0	3693
2006-07	0	0	22	250	419	639	746	950	535	353	53	0	3967
2007-	0	0	10	74	451	713							

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**COOLING DEGREE DAYS (base 65°F) 2007 WASHINGTON (KDCA)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1978	0	0	0	10	117	358	434	514	274	25	0	0	1732
1979	0	0	14	9	120	231	431	425	208	39	2	0	1479
1980	0	0	0	9	174	301	546	563	374	38	1	0	2006
1981	0	0	6	49	118	417	478	380	204	18	0	0	1670
1982	0	0	0	6	155	244	479	330	185	51	13	1	1464
1983	0	0	0	21	81	310	510	504	269	42	0	0	1737
1984	0	0	0	4	99	368	365	404	157	73	0	0	1470
1985	0	0	6	70	135	232	444	373	228	37	6	0	1531
1986	0	0	5	10	162	358	503	318	202	70	1	0	1629
1987	0	0	0	8	146	347	554	431	222	0	0	0	1708
1988	0	0	1	4	101	313	534	490	144	11	0	0	1598
1989	0	0	16	14	91	362	417	381	233	33	1	0	1548
1990	0	0	30	46	50	309	451	364	183	88	0	0	1521
1991	0	0	5	38	278	362	517	472	214	41	5	0	1932
1992	0	0	0	16	53	214	457	285	175	8	0	0	1208
1993	0	0	0	5	114	319	569	460	218	9	8	0	1702
1994	0	0	1	53	82	439	530	333	166	11	6	0	1621
1995	0	0	0	20	91	297	515	511	216	67	1	0	1718
1996	0	0	0	29	105	373	397	364	181	14	0	0	1463
1997	0	0	1	0	52	282	484	399	184	72	0	0	1474
1998	0	0	27	11	132	257	438	456	322	9	0	5	1657
1999	0	0	0	4	111	301	565	462	180	6	0	0	1629
2000	0	0	4	5	143	300	307	319	146	29	0	0	1253
2001	0	0	0	31	88	318	323	441	171	47	5	0	1424
2002	0	0	1	82	117	340	500	507	248	66	0	0	1861
2003	0	0	0	12	32	211	402	434	183	9	15	0	1298
2004	0	0	0	45	250	262	426	345	213	8	0	0	1549
2005	0	0	0	16	32	331	490	474	315	46	1	0	1705
2006	0	0	6	16	90	291	487	489	115	20	0	0	1514
2007	0	0	5	19	150	341	451	462	254	146	0	0	1828

**SNOWFALL (inches) 2007 WASHINGTON (KDCA)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1978-79	0.0	0.0	0.0	0.0	3.1	T	4.0	30.6	T	0.0	0.0	0.0	37.7
1979-80	0.0	0.0	0.0	0.3	0.0	T	8.6	5.1	6.1	0.0	0.0	0.0	20.1
1980-81	0.0	0.0	0.0	0.0	T	0.3	4.2	T	T	0.0	0.0	0.0	4.5
1981-82	0.0	0.0	0.0	0.0	T	1.7	15.3	5.3	0.2	T	0.0	0.0	22.5
1982-83	0.0	0.0	0.0	0.0	0.0	6.6	T	21.0	0.0	T	0.0	0.0	27.6
1983-84	0.0	0.0	0.0	0.0	0.3	T	6.5	T	1.8	T	0.0	0.0	8.6
1984-85	0.0	0.0	0.0	0.0	T	0.3	10.0	T	T	T	0.0	0.0	10.3
1985-86	0.0	0.0	0.0	0.0	0.0	0.7	1.8	12.9	T	T	0.0	0.0	15.4
1986-87	0.0	0.0	0.0	0.0	0.0	T	20.8	10.3	T	T	0.0	0.0	31.1
1987-88	0.0	0.0	0.0	0.0	11.5	T	13.1	T	0.4	T	0.0	0.0	25.0
1988-89	0.0	0.0	0.0	0.0	0.0	1.2	2.9	1.2	0.4	0.0	0.0	0.0	5.7
1989-90	0.0	0.0	0.0	0.0	3.5	9.0	0.2	T	2.4	0.2	0.0	0.0	15.3
1990-91	T	0.0	0.0	0.0	0.0	3.0	4.8	0.3	T	0.0	T	0.0	8.1
1991-92	0.0	0.0	0.0	0.0	T	0.0	4.0	2.6	T	0.0	0.0	0.0	6.6
1992-93	0.0	T	0.0	0.0	T	1.0	T	4.1	6.6	0.0	T	0.0	11.7
1993-94	0.0	0.0	0.0	0.0	T	2.6	3.5	3.1	4.0	0.0	0.0	0.0	13.2
1994-95	0.0	0.0	0.0	0.0	T	0.0	3.9	5.8	0.4	0.0	0.0	0.0	10.1
1995-96	0.0	0.0	0.0	0.0	0.5	1.3	23.8	15.2	5.2	T	0.0	0.0	46.0
1996-97	0.0	T	0.0	0.0	.2	.2	2.3	4.0	T	0.0	0.0	0.0	6.7
1997-98	0.0	0.0	0.0	0.0	T	0.1	T	T	T	0.0	T	T	0.1
1998-99	0.0	0.0	0.0	0.0	0.0	0.5	2.2	0.2	8.7	0.0	0.0	0.0	11.6
1999-00	0.0	0.0	0.0	0.0	0.0	T	14.5	0.9	0.0	T	0.0	0.0	15.4
2000-01	0.0	T	0.0	0.0	0.0	2.0	2.4	2.8	0.2	T	0.0	0.0	7.4
2001-02	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.5	0.0	0.0	0.0	T	3.2
2002-03	0.0	0.0	0.0	0.0	0.0	7.1	4.5	28.7	0.1	0.0	0.0	0.0	40.4
2003-04	T	0.0	0.0	0.0	0.0	6.2	6.2	T	T	0.0	T	0.0	12.4
2004-05	T	T	0.0	0.0	0.0	0.1	6.4	5.2	0.8	0.0	T	0.0	12.5
2005-06	0.0	0.0	0.0	0.0	T	4.8	T	8.8	T	T	0.0	0.0	13.6
2006-07	T	0.0	0.0	0.0	0.0	T	1.3	5.9	1.9	0.4	0.0	0.0	9.5
2007-	0.0	0.0	0.0	0.0	0.0	2.6							
POR= 63 YRS	T	T	0.0	0.0	0.7	2.8	5.4	5.5	2.0	T	T	T	16.4

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**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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# 2007 WASHINGTON D.C. (KDCA)

Washington lies at the western edge of the mid Atlantic Coastal Plain, about 50 miles east of the Blue Ridge Mountains and 35 miles west of Chesapeake Bay, adjacent to the Potomac and Anacostia Rivers. Elevations range from a few feet above sea level to about 400 feet in parts of the northwest section of the city.

Observations have been kept continuously since November 1870. Since June 1941 the official observations have been taken at Washington National Airport.

National Airport is located at the center of the urban heat island. As a result, low temperatures are the highest for the area. Differences between the airport and suburban locations are often 10 to 15 degrees. There is less variation in the high temperatures.

Summers are warm and humid and winters are cold, but not severe. Periods of pleasant weather often occur in the spring and fall. The summertime temperature is in the upper 80s and the winter is in the upper 20s. Precipitation is rather uniformly distributed throughout the year.

Thunderstorms can occur at any time but are most frequent during the late spring and summer. The storms are most often accompanied by downpours and gusty winds, but are not usually severe.

Tornadoes, which infrequently occur, have resulted in significant damage. Severe hailstorms have occurred in the spring.

Tropical storms can bring heavy rain, high winds and flooding, but extensive damage from wind and tidal flooding is rare. Wind gusts of nearly 100 mph and rainfall over 7 inches have occurred during the passage of tropical storms and hurricanes.

Major flooding of the Potomac River can result from heavy rains over the basin, occasionally augmented by snowmelt, and above normal tides associated with hurricanes or severe storms along the coast. Flooding may also occur after a cold winter when the Potomac may be blocked with ice.

Although a snowfall of 10 inches or more in 24 hours is unusual, several notable falls of more than 25 inches have occurred. Normal snowfall during the winter season is 18 inches.

The average date of the last freezing temperature in the spring is April 1 and the average date for the first freezing temperature in the fall is November 10.

# Station Location

WASHINGTON

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 *	
*NOTE:																
<u>AIRPORT</u>																
Main Terminal Building Washington National AP	8/30/68	02/01/98	750' NE	38° 51'	77° 02'	10	20 Q20	N77	N77	N81	N3 P85	N3 P85	N3 P85	4 Q4	N. Nov moved 8/30/68. P. Relocated 3/1971. Q. Moved 800' SSE 8/1/75. Station type changed from WSO to WSCMO 11/29/79.	
Ronald Reagan National Airport	02/01/98	Present	NA	38° 52'	77° 02'	r10									S ASOS Commissioned 02/01/98  r. Ground Elevation	

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