

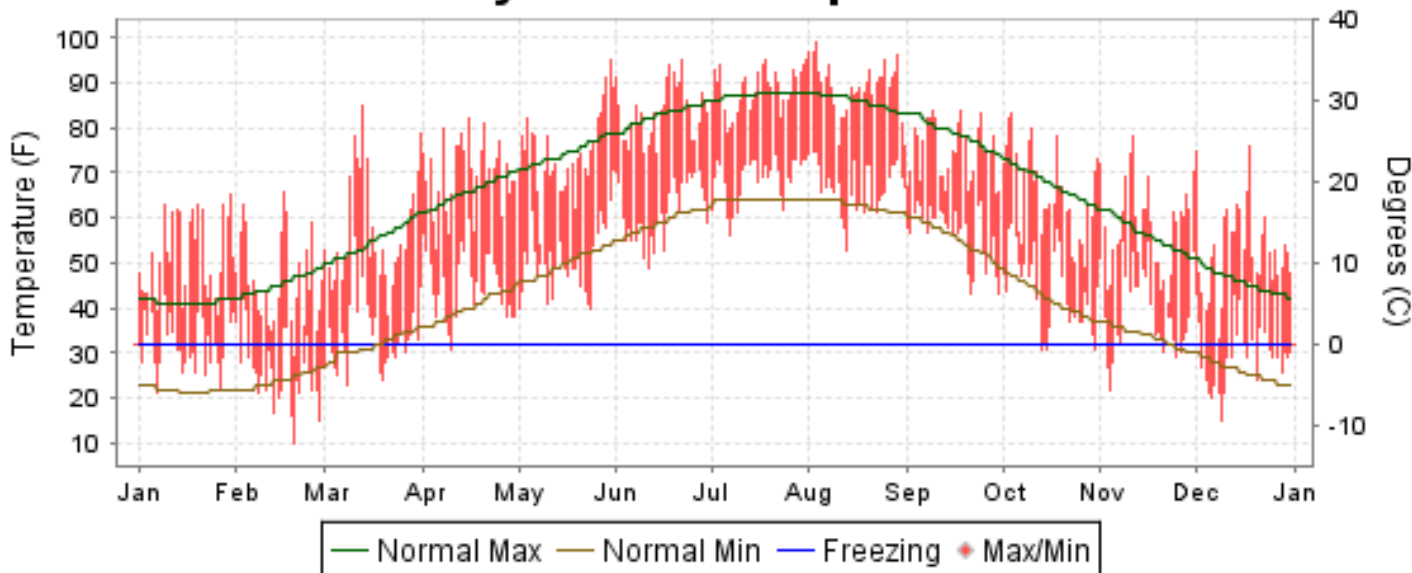


2006 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

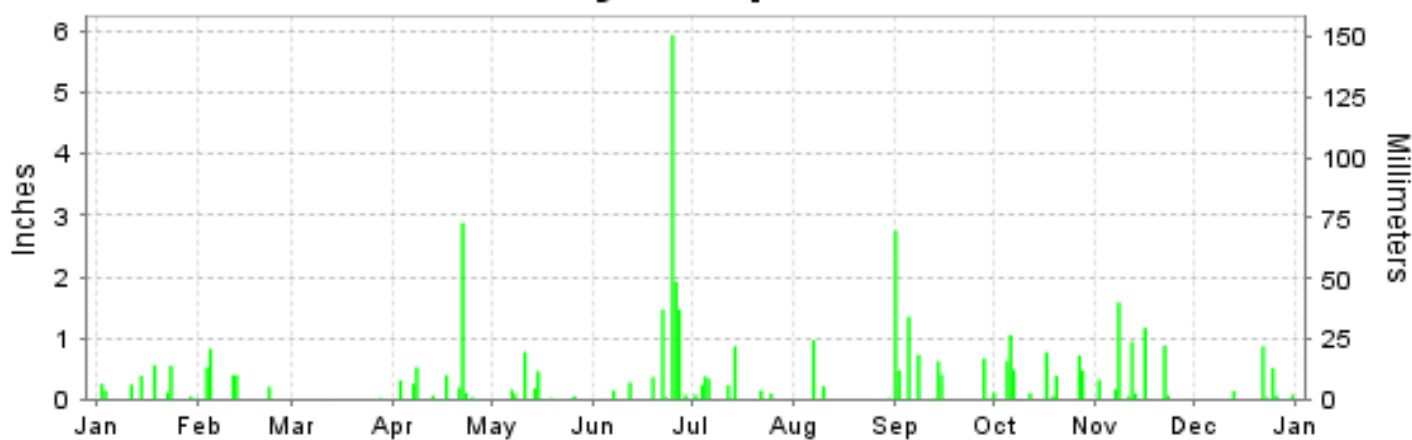
WASHINGTON,
D.C. (KIAD)

ISSN 0198-120X

Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2006

WASHINGTON (KIAD)

LATITUDE: 38° 56'N LONGITUDE: -77° 26'W ELEVATION (FT): GRND: 290 BARO: 309 TIME ZONE: EASTERN (UTC -5) WBAN: 93738

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	51.5	45.9	57.3	69.6	74.5	83.5	88.5	89.1	74.6	65.5	58.1	53.0	67.6	
	HIGHEST DAILY MAXIMUM	65	66	85	82	95	95	95	99	84	83	78	76	99	
	DATE OF OCCURRENCE	30	16	13	15	30	22	31+	03	18+	04	11	18	AUG 03	
	MEAN DAILY MINIMUM	32.1	26.1	34.4	45.1	51.0	61.6	68.7	67.0	56.6	44.3	39.1	30.8	46.4	
	LOWEST DAILY MINIMUM	21	10	23	31	40	49	56	53	43	31	22	15	10	
	DATE OF OCCURRENCE	07	19	08	10	24+	11	07	13	30+	30+	04	09	FEB 19	
	AVERAGE DRY BULB	41.8	36.0	45.9	57.4	62.8	72.6	78.6	78.1	65.6	54.9	48.6	41.9	57.0	
	MEAN WET BULB	37.3	31.2	38.4	49.1	55.4	64.3	70.9	68.1	60.0	49.5	44.4	37.2	50.5	
	MEAN DEW POINT	30.0	21.3	26.1	40.2	48.4	58.6	67.2	62.9	56.3	44.0	39.4	29.9	43.7	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	6	16	16	0	0	0	0	0	38
	MAXIMUM <= 32°	0	1	0	0	0	0	0	0	0	0	0	0	0	1
MINIMUM <= 32°	18	22	14	1	0	0	0	0	0	4	7	20	86		
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	715	803	589	232	132	4	0	0	54	322	486	708	4045	
	COOLING DEGREE DAYS	0	0	3	9	70	239	418	390	80	14	1	0	1224	
RH	MEAN (PERCENT)	66	57	48	57	62	66	71	62	75	70	73	65	64	
	HOUR 01 LST	71	66	57	71	78	81	86	78	85	81	83	74	76	
	HOUR 07 LST	77	70	57	64	64	70	75	68	82	80	82	78	72	
	HOUR 13 LST	54	45	33	41	45	47	52	44	59	51	56	49	48	
	HOUR 19 LST	63	52	45	55	60	64	70	59	76	71	70	62	62	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	4	4	0	1	0	1	1	0	1	2	2	5	21	
	THUNDERSTORMS	2	0	0	4	1	12	6	2	2	1	0	0	30	
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.)	29.65	29.67	29.69	29.62	29.54	29.62	29.67	29.66	29.66	29.65	29.93	29.85	29.68	
	MEAN SEA-LEVEL PRESS. (IN.)	30.01	30.03	30.04	29.96	29.89	29.96	30.01	30.00	30.00	30.00	30.28	30.21	30.03	
WINDS	RESULTANT SPEED (MPH)	3.1	3.7	4.9	2.2	2.1	2.2	2.5	0.7	0.7	2.1	2.8	2.2	2.2	
	RES. DIR. (TENS OF DEGS.)	28	29	30	30	31	28	23	30	29	27	33	27	29	
	MEAN SPEED (MPH)	8.5	7.7	8.8	7.3	6.1	5.8	5.6	6.1	6.1	6.3	6.3	5.6	6.7	
	PREVAIL.DIR.(TENS OF DEGS.)	20	19	31	20	32	32	20	20	17	30	33	18	20	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	38	32	32	31	25	29	39	22	28	35	26	35	39	
	DIR. (TENS OF DEGS.)	32	32	32	30	28	31	30	19	32	30	33	19	30	
	DATE OF OCCURRENCE	15	17	15	03	21	09	04	07	28	20	12	01	JUL 04	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	51	40	41	49	33	39	51	139	37	46	37	53	139	
DIR. (TENS OF DEGS.)	25	32	30	28	28	32	29	29	32	29	19	19	29		
DATE OF OCCURRENCE	14	17	15	03	21	09	04	07	28	28	16	01	AUG 07		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	2.39	2.38	0.07	4.86	1.80	11.79	2.45	1.24	7.12	4.82	5.31	1.74	45.97	
	GREATEST 24-HOUR (IN.)	0.67	0.83	0.03	2.89	0.78	6.03	0.88	0.97	3.11	1.67	1.73	0.91	6.03	
	DATE OF OCCURRENCE	22-23	04	28	21-22	11	25-26	13-14	07	01-02	05-06	07-08	22-23	JUN 25-26	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	11	6	4	13	10	13	11	5	11	10	11	7	112	
PRECIPITATION 0.10	7	5	0	7	4	7	7	2	7	9	7	3	65		
PRECIPITATION 1.00	0	0	0	1	0	4	0	0	2	1	2	0	10		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	T	8.1	T	0.0	0.0	0.0	T	T	0.0	0.0	0.0	T	8.1	
	GREATEST 24-HOUR (IN.)	T	4.4	T	0.0	0.0	0.0	T	T	0.0	0.0	0.0	T	4.4	
	DATE OF OCCURRENCE	26+	12	21				04	07				07	FEB 12	
	MAXIMUM SNOW DEPTH (IN.)	0	7	0	0	0	0	0	0	0	0	0	0	7	
	DATE OF OCCURRENCE		12											FEB 12	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	0	2	0	0	0	0	0	0	0	0	0	0	2		

NORMALS, MEANS, AND EXTREMES WASHINGTON (KIAD)

LATITUDE: 38 ° 56'N **LONGITUDE:** -77 ° 26'W **ELEVATION (FT):** GRND: 290 BARO: 309 **TIME ZONE:** EASTERN (UTC -5) **WBAN: 93738**

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	41.4	45.5	55.0	65.9	74.6	82.8	87.4	85.9	78.9	67.7	56.5	45.9	65.6	
	MEAN DAILY MAXIMUM	44	41.2	44.8	54.6	65.8	74.5	82.6	87.1	85.8	78.8	67.5	56.6	45.5	65.4	
	HIGHEST DAILY MAXIMUM	44	75	79	89	93	97	100	104	104	104	99	90	84	79	104
	YEAR OF OCCURRENCE		1975	2000	1998	2002	1969	1964	1988	1983	1983	1986	1982	1998	1998	JUL 1988
	MEAN OF EXTREME MAXS.	44	63.5	65.8	76.9	85.1	88.8	93.3	95.9	95.0	91.3	83.2	74.8	65.7	81.6	
	NORMAL DAILY MINIMUM	30	21.9	24.1	31.8	40.2	49.9	59.0	64.0	62.8	55.6	42.3	33.8	26.0	42.6	
	MEAN DAILY MINIMUM	44	22.5	24.3	32.2	41.1	50.4	59.4	64.8	63.3	55.7	42.7	34.5	26.4	43.1	
	LOWEST DAILY MINIMUM	44	-18	-14	-1	17	28	36	41	38	30	15	9	-4	-18	
	YEAR OF OCCURRENCE		1984	1979	1993	1969	1970	1977	1988	1982	1974	1969	1989	1989	1989	JAN 1984
	MEAN OF EXTREME MINS.	44	2.9	6.8	15.5	25.5	35.0	44.9	51.9	49.8	39.2	27.4	18.8	9.8	27.3	
	NORMAL DRY BULB	30	31.7	34.8	43.4	53.1	62.3	70.9	75.7	74.4	67.3	55.0	45.2	36.0	54.2	
	MEAN DRY BULB	44	31.9	34.6	43.4	53.5	62.4	71.2	75.9	74.7	67.3	55.1	45.6	36.0	54.3	
	MEAN WET BULB	23	29.6	31.8	38.0	47.5	56.8	65.2	69.5	68.1	61.5	50.5	41.5	32.7	49.4	
	MEAN DEW POINT	23	23.3	25.1	31.1	40.8	52.2	61.6	66.2	64.9	58.0	46.1	35.8	26.7	44.3	
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.3	1.0	5.0	12.0	8.7	2.9	*	0.0	0.0	29.9	
	MAXIMUM <= 32	30	6.4	3.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	3.1	14.0	
MINIMUM <= 32	30	25.6	21.6	16.7	5.6	0.3	0.0	0.0	0.0	0.1	4.9	14.7	23.0	112.5		
MINIMUM <= 0	30	1.1	0.4	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.6		
H/C	NORMAL HEATING DEG. DAYS	30	1025	847	670	362	139	21	1	4	60	323	589	884	4925	
	NORMAL COOLING DEG. DAYS	30	0	0	4	11	60	203	345	302	132	15	3	0	1075	
RH	NORMAL (PERCENT)	30	68	67	64	63	71	73	74	75	76	74	70	70	70	
	HOURLY 01 LST	30	75	74	72	73	84	88	88	90	89	86	79	77	81	
	HOURLY 07 LST	30	77	78	77	76	83	84	86	89	90	89	82	79	83	
	HOURLY 13 LST	30	59	54	51	48	55	56	55	55	56	54	54	58	55	
	HOURLY 19 LST	30	66	62	57	54	63	66	67	70	73	72	67	68	65	
S	PERCENT POSSIBLE SUNSHINE	1	51													
	MEAN NO. DAYS WITH: HEAVY FOG (VISBY <= 1/4 MI) THUNDERSTORMS	43 44	3.0 0.2	2.3 0.1	1.8 1.1	1.1 2.5	2.3 4.1	1.6 6.1	1.8 6.1	2.3 4.9	2.5 2.1	3.1 0.9	1.9 0.6	2.6 0.2	26.3 28.9	
CLOUDNESS	MEAN: SUNRISE-SUNSET (OKTAS)	34	5.4	5.2	5.3	5.1	5.1	5.0	4.7	4.7	4.6	4.3	5.0	5.2	5.0	
	MIDNIGHT-MIDNIGHT (OKTAS)	32	5.1	4.9	5.0	4.9	4.8	4.7	4.7	4.4	4.4	4.1	4.7	5.0	4.7	
	MEAN NO. DAYS WITH: CLEAR	34	7.4	7.4	6.7	7.0	7.0	6.4	7.8	8.2	8.6	10.6	7.2	7.3	91.6	
	PARTLY CLOUDY	34	6.9	6.2	8.3	9.0	9.5	11.8	10.8	10.7	9.4	8.3	7.8	6.7	105.4	
	CLOUDY	34	16.7	14.7	16.1	14.0	14.5	11.8	12.5	12.2	12.1	12.1	14.9	17.0	168.6	
PR	MEAN STATION PRESSURE (IN)	23	29.75	29.74	29.70	29.64	29.65	29.64	29.66	29.69	29.73	29.75	29.77	29.77	29.71	
	MEAN SEA-LEVEL PRES. (IN)	23	30.11	30.10	30.05	29.98	29.99	29.99	30.00	30.03	30.07	30.10	30.12	30.12	30.06	
WINDS	MEAN SPEED (MPH)	23	7.8	7.8	8.5	8.1	7.0	6.4	5.9	5.7	6.1	6.1	7.0	7.0	7.0	
	PREVAIL. DIR. (TENS OF DEGS)	36	32	32	33	33	21	21	20	20	19	33	33	33	32	
	MAXIMUM 2-MINUTE: SPEED (MPH)	10	39	37	44	36	35	33	39	43	37	35	43	37	44	
	DIR. (TENS OF DEGS)		31	30	28	32	30	33	30	34	08	30	29	30	28	
	YEAR OF OCCURRENCE		2000	2002	2001	1997	2002	1997	2006	1997	2003	2006	2003	2003	MAR 2001	
	MAXIMUM 5-SECOND SPEED (MPH)	10	52	47	51	49	48	47	54	139	48	46	52	53	139	
	DIR. (TENS OF DEGS)		29	09	28	28	24	30	30	29	09	29	30	19	29	
YEAR OF OCCURRENCE		2000	1998	2001	2006	1999	2000	2005	2006	2003	2006	2003	2006	AUG 2006		
PRECIPITATION	NORMAL (IN)	30	3.05	2.77	3.55	3.22	4.22	4.07	3.57	3.78	3.82	3.37	3.31	3.07	41.80	
	MAXIMUM MONTHLY (IN)	43	6.61	6.27	7.65	7.35	10.26	18.19	7.85	10.71	11.26	9.22	7.83	6.74	18.19	
	YEAR OF OCCURRENCE		1979	2003	1993	1973	1988	1972	2005	1984	1975	2005	1963	1969	JUN 1972	
	MINIMUM MONTHLY (IN)	43	0.40	0.25	0.07	0.33	0.80	0.52	0.94	0.44	.15	T	0.24	0.42	T	
	YEAR OF OCCURRENCE		1981	1978	2006	1985	1964	1988	1983	1998	2005	1963	1981	1965	OCT 1963	
	MAXIMUM IN 24 HOURS (IN)	43	2.22	2.17	2.56	2.89	3.13	11.88	4.05	7.04	5.54	4.62	4.80	3.15	11.88	
	YEAR OF OCCURRENCE		1998	1998	1967	2006	1988	1972	1994	1984	1966	2005	1993	1977	JUN 1972	
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	10.8	9.2	10.6	10.1	12.3	10.8	10.8	9.7	9.1	7.8	9.1	9.8	120.1	
PRECIPITATION >= 1.00	30	0.6	0.8	0.9	0.7	0.8	0.9	0.9	1.0	1.0	0.9	0.8	0.5	9.8		
SNOWFALL	NORMAL (IN)	30	8.1	6.2	3.4	0.4	0.0	0.0	0.0	0.0	0.0	0.1	0.8	2.2	21.2	
	MAXIMUM MONTHLY (IN)	44	30.9	34.9	15.5	4.0	T	T	T	T	0.0	1.3	11.4	24.2	34.9	
	YEAR OF OCCURRENCE		1996	2003	1993	1990	1963	1995	2006	2006	2006	1979	1967	1966	FEB 2003	
	MAXIMUM IN 24 HOURS (IN)	44	19.8	22.8	13.9	3.8	T	T	T	T	0.0	1.3	11.4	12.1	22.8	
	YEAR OF OCCURRENCE		1996	1983	1993	1990	1963	1995	2006	1993	1993	1979	1967	1969	FEB 1983	
	MAXIMUM SNOW DEPTH (IN)	42	19	22	13	1	0	0	0	0	0	0	4	13	22	
	YEAR OF OCCURRENCE		1987	1983	1993	1990							1987	1969	FEB 1983	
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	2.0	1.3	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6	5.4		

PRECIPITATION (inches) 2006 WASHINGTON (KIAD)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1977	1.10	0.49	3.59	2.58	2.33	3.09	3.25	4.18	1.74	4.19	4.51	4.87	35.92
1978	6.55	0.25	2.85	1.62	5.05	4.36	4.52	4.29	0.78	0.79	3.02	3.58	37.66
1979	6.61	5.75	3.50	2.05	4.89	4.64	2.18	6.05	7.58	8.65	2.65	0.88	55.43
1980	2.95	1.00	4.82	3.64	3.86	1.89	4.41	1.67	2.70	2.77	3.42	0.68	33.81
1981	0.40	4.10	0.99	3.05	4.36	3.86	4.05	3.55	2.07	3.00	0.24	2.46	32.13
1982	2.10	4.09	3.47	2.82	3.57	5.49	2.11	3.36	4.22	2.21	2.87	2.25	38.56
1983	1.40	3.74	4.21	7.24	3.63	4.01	0.94	1.34	2.95	6.00	5.06	5.66	46.18
1984	1.42	4.13	5.81	5.01	4.23	2.19	2.46	10.71	1.49	1.73	3.64	1.25	44.07
1985	2.32	3.73	1.70	0.33	4.82	1.14	2.34	3.35	2.96	4.06	5.27	0.92	32.94
1986	1.58	3.16	1.12	3.01	1.19	1.40	1.86	5.72	1.04	1.30	4.17	4.83	30.38
1987	4.53	2.47	1.46	4.61	2.33	3.38	3.04	0.96	8.11	2.51	5.02	2.35	40.77
1988	2.47	2.06	2.31	2.35	10.26	0.52	7.12	3.92	1.80	1.60	4.48	0.92	39.81
1989	2.65	2.50	4.01	2.70	7.71	5.75	5.99	0.76	3.14	4.73	2.68	1.72	44.34
1990	3.14	1.65	2.78	5.06	4.37	1.77	5.42	5.56	1.49	6.53	2.56	5.00	45.33
1991	2.67	0.81	5.16	1.80	1.51	6.58	2.64	0.99	3.25	1.37	2.70	4.54	34.02
1992	2.13	2.26	3.23	3.15	3.82	2.88	7.23	1.33	5.55	2.81	5.24	4.73	44.36
1993	2.72	2.74	7.65	5.62	2.85	1.77	2.06	4.68	4.66	2.15	6.28	3.78	46.96
1994	4.12	3.61	6.71	1.71	3.19	5.82	5.75	4.62	3.40	1.05	1.86	2.42	44.26
1995	4.18	1.80	1.39	2.14	5.13	3.25	4.24	2.02	2.74	6.51	4.75	2.05	40.20
1996	5.61	2.62	3.52	3.69	7.07	4.88	5.89	4.16	7.72	3.97	3.75	5.21	58.09
1997	2.16	2.16	4.78	2.18	2.87	2.36	1.38	5.32	3.16	2.75	5.48	1.92	36.52
1998	5.43	5.83	5.60	2.92	4.52	5.87	1.31	0.44	1.25	1.50	1.21	1.53	37.41
1999	5.39	2.62	3.44	2.68	2.22	3.00	2.56	5.43	9.32	2.55	1.72	2.67	43.60
2000	2.50	1.92	3.35	4.36	2.57	4.02	4.28	5.92	4.20	0.06	1.57	2.06	36.81
2001	2.54	1.68	4.14	2.15	5.68	4.83	4.24	4.52	3.39	1.42	0.81	1.56	36.96
2002	1.22	0.46	3.48	3.45	4.73	3.61	2.64	2.91	2.84	5.04	4.13	3.61	38.12
2003	2.69	6.27	3.69	2.71	8.71	8.33	6.06	5.55	7.26	4.63	5.20	4.57	65.67
2004	1.41	1.93	2.05	5.04	3.06	3.73	3.72	3.79	5.80	1.04	4.11	3.01	38.69
2005	3.14	1.41	3.93	4.34	4.86	1.92	7.85	2.32	0.15	9.22	2.49	2.92	44.55
2006	2.39	2.38	0.07	4.86	1.80	11.79	2.45	1.24	7.12	4.82	5.31	1.74	45.97
POR= 44 YRS	2.84	2.62	3.40	3.15	4.03	4.18	3.70	3.83	3.83	3.26	3.27	3.08	41.19

WBAN : 93738

AVERAGE TEMPERATURE (°F) 2006 WASHINGTON (KIAD)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1977	21.0	34.8	48.9	55.4	64.5	68.3	76.4	76.3	69.9	53.9	47.9	33.0	54.2
1978	27.3	26.7	40.6	54.2	63.4	71.6	74.4	77.2	68.9	53.8	46.8	38.2	53.6
1979	31.2	23.3	46.4	52.2	63.3	68.2	74.2	74.4	66.9	54.6	49.7	40.1	53.7
1980	32.7	31.0	41.9	55.6	65.8	69.2	77.3	77.1	70.8	54.1	42.7	34.9	54.4
1981	27.8	38.5	41.4	57.0	60.9	73.5	75.1	71.9	66.7	52.5	45.9	34.1	53.8
1982	26.2	36.5	43.7	51.3	66.8	70.8	77.0	72.3	66.9	57.3	48.4	42.6	55.0
1983	34.7	35.0	46.0	50.2	59.4	70.0	74.6	75.3	66.2	54.7	44.7	30.4	53.4
1984	25.8	38.9	37.5	50.9	59.8	71.2	72.0	74.2	63.0	61.8	42.6	43.3	53.4
1985	28.1	35.8	45.0	57.1	63.8	69.7	75.9	73.4	67.7	58.4	52.6	33.2	55.1
1986	32.5	32.1	44.3	53.6	64.2	73.4	79.0	72.5	68.2	56.8	43.2	36.8	54.7
1987	31.2	33.1	43.5	51.7	64.3	73.7	79.1	75.4	68.7	49.9	47.8	38.6	54.8
1988	27.6	34.5	43.9	52.2	63.5	70.9	78.7	78.4	66.4	49.2	46.0	35.8	53.9
1989	36.3	35.2	43.7	51.7	61.4	73.8	76.0	74.4	68.6	57.3	43.7	23.1	53.8
1990	40.8	42.2	48.1	54.3	61.6	72.0	76.9	73.8	66.1	58.7	48.6	41.3	57.0
1991	34.0	39.5	46.1	56.0	69.3	72.3	77.9	77.0	67.6	56.6	45.7	38.5	56.7
1992	35.0	38.0	41.9	53.1	59.7	68.6	75.9	70.4	66.0	52.2	45.7	36.8	53.6
1993	36.8	31.7	39.3	52.6	64.5	72.0	79.7	78.0	68.7	54.2	45.3	34.0	54.7
1994	26.1	33.3	42.7	60.1	59.9	76.1	79.5	73.8	66.7	53.9	49.1	40.3	55.1
1995	37.2	31.3	46.1	52.6	62.7	71.5	78.2	77.6	67.1	58.3	39.7	33.0	54.6
1996	30.0	34.7	39.7	54.6	59.7	72.8	72.9	72.7	67.1	55.7	39.3	38.3	53.1
1997	32.5	40.5	44.6	50.3	58.8	69.1	75.8	73.3	65.1	53.7	43.6	37.2	53.7
1998	40.1	41.0	45.5	54.9	66.0	70.4	75.3	76.2	72.7	56.2	45.6	40.9	57.1
1999	35.0	37.5	41.4	53.0	62.8	70.8	78.5	75.4	67.0	53.1	50.1	38.2	55.2
2000	32.5	39.2	47.9	53.3	64.6	72.2	71.8	72.8	65.0	57.0	42.5	27.8	53.9
2001	32.1	38.5	40.5	55.5	62.6	72.4	72.2	76.5	65.4	55.8	50.7	41.3	55.3
2002	39.1	38.9	45.4	56.8	61.9	72.6	77.3	78.1	69.1	55.0	44.1	33.4	56.0
2003	28.4	30.3	44.1	53.5	59.8	69.3	75.4	76.2	67.1	53.8	50.0	36.0	53.7
2004	28.0	34.8	46.3	54.8	69.8	70.9	75.9	73.6	68.8	55.6	48.4	37.8	55.4
2005	34.8	37.4	40.9	55.3	59.7	73.7	77.9	77.7	71.9	58.8	47.8	33.4	55.8
2006	41.8	36.0	45.9	57.4	62.8	72.6	78.6	78.1	65.6	54.9	48.6	41.9	57.0
POR= 44 YRS	31.9	34.6	43.4	53.5	62.4	71.2	75.9	74.7	67.3	55.1	45.6	36.0	54.3

HEATING DEGREE DAYS (base 65°F) 2006 WASHINGTON (KIAD)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1977-78	1	2	23	339	521	985	1163	1066	748	317	123	14	5302
1978-79	0	0	58	349	539	824	1040	1163	578	383	115	43	5092
1979-80	7	15	50	337	461	765	993	977	707	272	69	31	4684
1980-81	0	0	33	342	664	928	1145	735	728	254	170	6	5005
1981-82	0	6	63	388	563	952	1196	790	653	407	56	8	5082
1982-83	0	13	41	266	504	687	934	832	581	449	204	16	4527
1983-84	3	1	103	325	600	1066	1209	750	845	414	194	19	5529
1984-85	4	0	137	130	664	664	1136	814	617	261	94	20	4541
1985-86	0	0	73	217	368	977	995	915	636	336	114	10	4641
1986-87	0	31	52	296	648	868	1039	888	660	398	113	4	4997
1987-88	0	5	21	464	508	810	1152	873	646	381	107	49	5016
1988-89	7	0	50	485	564	899	881	825	670	399	167	0	4947
1989-90	0	7	60	260	633	1295	740	634	547	347	124	8	4655
1990-91	1	0	79	236	482	728	952	706	579	290	53	8	4114
1991-92	0	0	69	280	577	814	921	779	708	359	181	20	4708
1992-93	0	4	79	391	572	869	870	929	787	366	79	19	4965
1993-94	0	0	64	330	587	952	1201	884	684	187	196	5	5090
1994-95	0	0	28	342	474	762	857	936	580	378	118	4	4479
1995-96	0	0	61	236	754	987	1075	874	778	330	220	7	5322
1996-97	0	0	41	288	765	820	998	680	625	433	205	54	4909
1997-98	0	0	69	369	633	855	765	665	630	298	60	33	4377
1998-99	0	1	25	269	577	743	924	765	725	355	96	15	4495
1999-00	2	1	50	364	442	823	1001	742	520	348	98	9	4400
2000-01	0	1	112	256	670	1144	1015	736	752	304	106	13	5109
2001-02	5	0	80	293	426	727	796	724	600	294	163	2	4110
2002-03	0	0	17	341	621	972	1127	963	641	347	178	31	5238
2003-04	0	0	35	339	452	891	1142	872	574	336	47	12	4700
2004-05	0	2	13	298	493	836	929	766	744	295	178	9	4563
2005-06	0	0	12	221	506	971	715	803	589	232	132	4	4185
2006-	0	0	54	322	486	708							

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COOLING DEGREE DAYS (base 65°F) 2006 WASHINGTON (KIAD)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1977	0	0	13	22	81	147	361	357	175	3	12	0	1171
1978	0	0	0	0	84	219	298	385	183	10	0	0	1179
1979	0	0	9	5	69	147	297	310	112	21	6	0	976
1980	0	0	0	0	100	165	391	380	211	12	0	0	1259
1981	0	0	2	20	49	268	320	227	120	5	0	0	1011
1982	0	0	0	6	120	191	381	248	103	34	11	2	1096
1983	0	0	0	12	40	173	307	328	149	10	0	0	1019
1984	0	0	0	0	38	215	228	292	82	39	0	0	894
1985	0	1	4	32	65	169	344	267	160	20	5	0	1067
1986	0	0	3	0	93	266	441	273	151	49	0	0	1276
1987	0	0	0	5	97	270	446	335	138	0	0	0	1291
1988	0	0	1	2	71	231	439	423	96	5	0	0	1268
1989	0	0	16	9	63	270	343	305	176	27	1	0	1210
1990	0	0	30	31	26	223	376	279	118	49	0	0	1132
1991	0	0	0	23	196	234	408	379	153	24	3	0	1420
1992	0	0	0	8	24	131	343	180	116	1	0	0	803
1993	0	0	0	2	71	233	464	407	183	2	6	0	1368
1994	0	0	0	49	45	345	456	277	88	2	4	0	1266
1995	0	0	0	12	55	208	415	395	132	37	0	0	1254
1996	0	0	0	27	61	248	253	247	113	4	0	0	953
1997	0	0	0	0	22	185	340	265	79	28	0	0	919
1998	1	0	35	3	97	204	326	358	259	3	0	3	1289
1999	0	0	0	0	34	198	426	332	120	1	0	0	1111
2000	0	0	0	5	92	229	220	248	119	15	0	0	928
2001	0	0	0	26	41	245	235	366	98	15	4	0	1030
2002	0	0	0	55	73	237	386	414	147	35	0	0	1347
2003	0	0	0	8	22	165	328	356	105	0	9	0	993
2004	0	0	0	37	203	197	344	278	133	9	0	0	1201
2005	0	0	0	11	17	273	409	401	226	35	0	0	1372
2006	0	0	3	9	70	239	418	390	80	14	1	0	1224

SNOWFALL (inches) 2006 WASHINGTON (KIAD)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1977-78	0.0	0.0	0.0	T	0.1	1.1	13.4	2.5	10.3	0.0	0.0	0.0	27.4
1978-79	0.0	0.0	0.0	0.0	4.0	T	8.8	27.6	0.2	0.0	0.0	0.0	40.6
1979-80	0.0	0.0	0.0	1.3	0.0	0.2	9.9	5.6	9.8	0.0	0.0	0.0	26.8
1980-81	0.0	0.0	0.0	0.0	T	0.4	4.0	T	T	0.0	0.0	0.0	4.4
1981-82	0.0	0.0	0.0	0.0	0.9	5.7	14.3	5.7	0.3	2.6	0.0	0.0	29.5
1982-83	0.0	0.0	0.0	0.0	0.0	11.9	0.1	27.2	T	T	0.0	0.0	39.2
1983-84	0.0	0.0	0.0	0.0	0.3	T	10.5	0.8	10.8	0.0	0.0	0.0	22.4
1984-85	0.0	0.0	0.0	0.0	T	T	13.8	0.7	T	0.3	0.0	0.0	14.8
1985-86	0.0	0.0	0.0	0.0	0.0	0.2	1.9	16.0	T	T	0.0	0.0	18.1
1986-87	0.0	0.0	0.0	0.0	0.0	T	28.8	12.0	1.4	0.5	0.0	0.0	42.7
1987-88	0.0	0.0	0.0	0.0	5.5	0.1	10.9	T	0.2	T	0.0	0.0	16.7
1988-89	0.0	0.0	0.0	0.0	0.0	1.0	6.6	1.4	0.9	0.0	0.0	0.0	9.9
1989-90	0.0	0.0	0.0	0.0	2.4	11.4	5.0	T	6.4	4.0	0.0	0.0	29.2
1990-91	0.0	0.0	0.0	0.0	0.0	4.7	6.3	0.1	3.5	T	0.0	0.0	14.6
1991-92	0.0	0.0	0.0	0.0	T	T	2.1	3.4	1.2	T	0.0	0.0	6.7
1992-93	0.0	0.0	0.0	0.0	T	2.8	3.2	8.8	15.5	T	0.0	0.0	30.3
1993-94	0.0	T	0.0	0.0	0.0	3.5	4.2	3.8	7.9	T	0.0	T	19.4
1994-95	0.0	0.0	0.0	0.0	T	0.0	4.3	7.8	1.9	0.0	0.0	T	14.0
1995-96	0.0	0.0	0.0	0.0	3.6	2.5	30.9	16.4	6.0	2.5			
1996-97					.7	1.9	5.5	8.2	1.5	0.0	0.0	0.0	
1997-98	0.0	0.0	0.0	0.0	0.0	4.7	0.5	0.7	T	0.0	T	T	5.9
1998-99	0.0	0.0	0.0	0.0	0.0	0.6	4.1	0.9	14.6	0.0	0.0	0.0	20.2
1999-00	0.0	0.0	0.0	0.0	0.0	0.2	21.4	1.4	0.0	0.2	T	0.0	23.2
2000-01	0.0	0.0	0.0	0.0	T	3.1	5.1	3.7	1.0	0.0	0.0	0.0	12.9
2001-02	0.0	0.0	0.0	0.0	0.0	0.0	2.6	T	0.0	0.0	T	0.0	2.6
2002-03	0.0	0.0	0.0	0.0	T	8.2	5.1	34.9	1.9	T	0.0	0.0	50.1
2003-04	0.0	T	0.0	0.0	0.0	11.4	6.0	T	T	0.0	0.0	0.0	17.4
2004-05	0.0	0.0	0.0	0.0	0.0	T	7.4	8.7	1.2	0.0	0.0	0.0	17.3
2005-06	0.0	0.0	0.0	0.0	T	5.7	T	8.1	T	0.0	0.0	0.0	13.8
2006-	T	T	0.0	0.0	0.0	T							
POR= 43 YRS	T	T	0.0	T	0.9	3.7	7.3	6.9	3.2	0.3	T	T	22.3

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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>NOTE: 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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2006 WASHINGTON D.C. (KIAD)

Dulles International Airport is located in the Virginia Piedmont about 23 miles east of the Blue Ridge Mountains and 12 miles east of the Bull Run and Catocin Mountains. The Blue Ridge rises to about 2,500 feet above sea level and the Bull Run Mountains to about 1,500 feet at their nearest points. Field elevation is 313 feet. The terrain near the airport is mostly low rolling hills about one-fourth wooded. Ponds located on and near the airport, along with poor air drainage contribute to the formation of local ground fog. Easterly winds cause an upslope effect from the Atlantic Ocean, 140 miles east, and from the Chesapeake Bay, about 55 miles east. Westerly winds create a slight foehn effect.

Its location in the middle latitudes, where the general atmospheric flow is from west to east, favors a continental climate with four well defined seasons. Summers are warm and at times humid, Winters are mild. Generally pleasant weather prevails in spring and autumn. The coldest period, when temperatures average 21 degrees, occurs in late January. The warmest period, averaging 88 degrees, occurs in the last half of July.

Precipitation is rather evenly distributed through the year. Annual precipitation has ranged from about 25 inches to more than 55 inches. Rainfalls of over 10 inches in a 24-hour period have been recorded during the passage of tropical storms. The seasonal snowfall is nearly 24 inches, but varies greatly from season to season. Snowfalls of 4 inches or more occur only twice each winter on average. Accumulations of over 20 inches from a single storm are extremely rare.

Storm damage results mainly from heavy snows and freezing rains in winter and from hurricanes and severe thunderstorms during the other seasons. Damage may result from wind, flooding or rain.

Prevailing winds are from the south except during the winter months when they are from the northwest. The windiest period is late winter and early spring. Winds are generally less during the night and early morning hours and increase to a high in the afternoon. Winds may reach 50 to 60 miles per hour or even higher during severe summer thunderstorms, hurricanes, and winter storms.

The growing season averages 169 days. The average date for the last freeze in spring is late April and the average date for the first freeze in the fall is mid October.

Station Location

WASHINGTON

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	Latitude		Longitude		ELEVATION ABOVE							REMARKS		
				NORTH	WEST	SEA LEVEL	GROUND						AUTOMATIC OBSERVING EQUIPMENT *				
						GROUND TEMPERATURE SITE	WIND INSTRUMENT	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET RAIN GAUGE	WEIGHING RAIN GAUGE		8 INCH RAIN GAUGE		HYGROTHERMOMETER	
<u>AIRPORT</u>																	
Telephone Building Dulles International AP (22 mi. W city center)	11/17/62	05/01/96	NA	38° 57'	77° 27'	290	d20	b37	5	b36			a34	c5	e5		a. Installed 3/1/63. b. Effective 10/10/74. c. Minor move 12/3/74. d. Minor move 2/19/75. e. Type change 6/5/87. Station type change from WSO to WSCMO 1/1988.
Dulles International Airport	05/01/96	Present	NA	38° 56'	77° 27'	£306											s ASOS Commissioned 05/01/96 f. Ground Elevation

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