

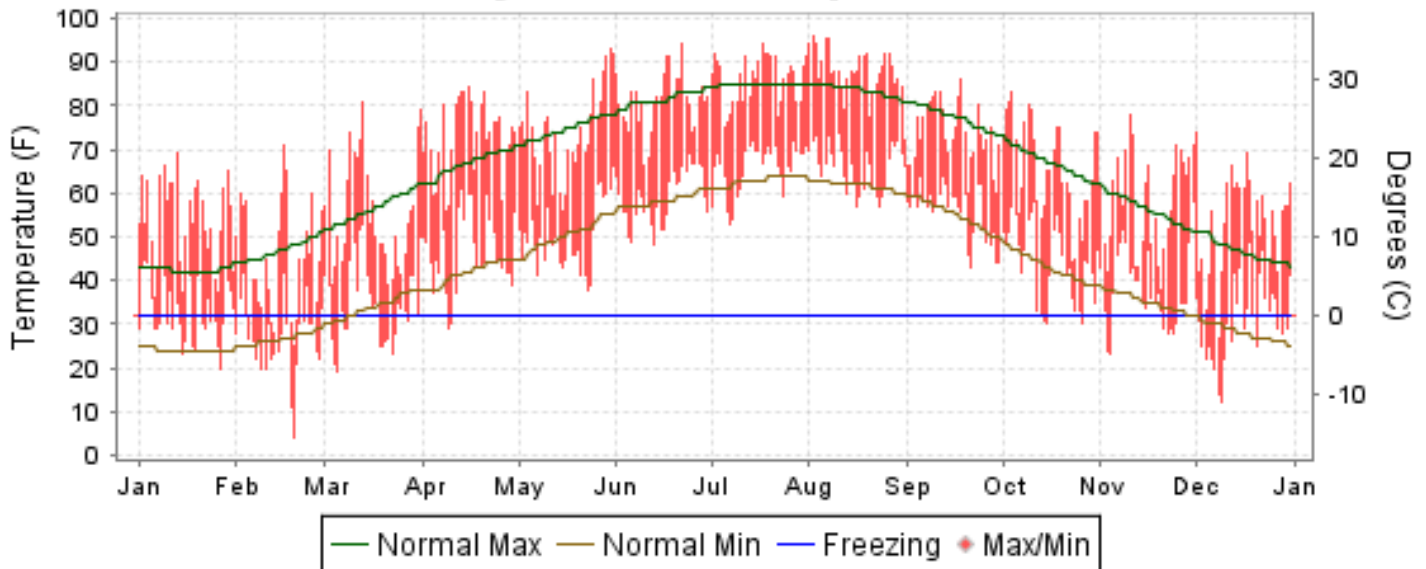


2006 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

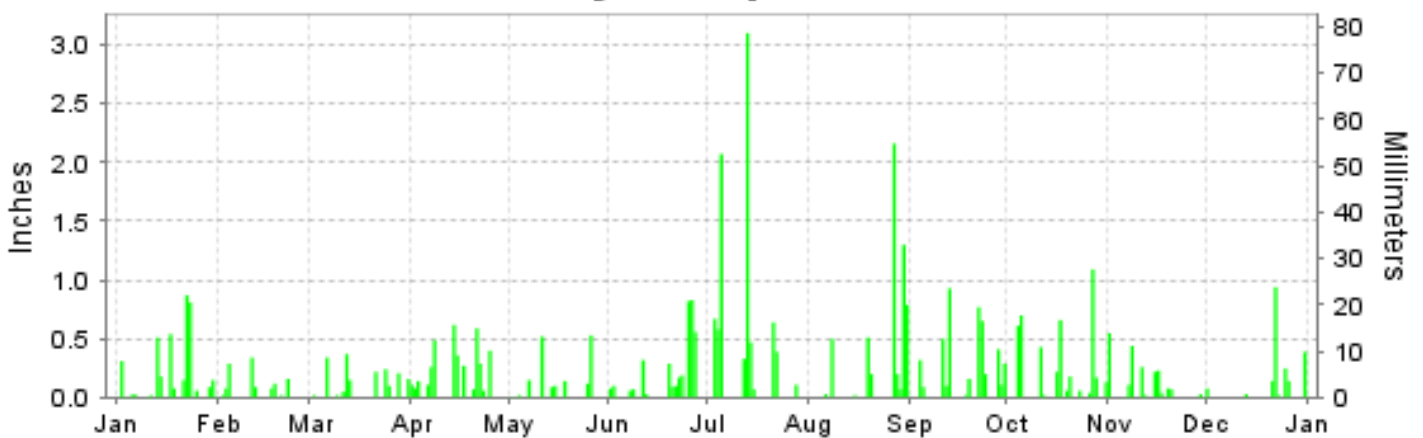
ISSN 0198-5604

CHARLESTON, WEST VIRGINIA (KCRW)

Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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NATIONAL
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ENVIRONMENTAL SATELLITE, DATA
AND INFORMATION SERVICE

NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2006

CHARLESTON (KCRW)

LATITUDE: 38° 22'N LONGITUDE: -81° 35'W ELEVATION (FT): GRND: 910 BARO: 1026 TIME ZONE: EASTERN (UTC -5) WBAN: 13866

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	53.8	45.1	55.6	72.8	73.5	80.9	85.9	87.7	73.5	65.6	58.2	53.6	67.2	
	HIGHEST DAILY MAXIMUM	69	71	81	84	93	94	94	96	86	83	78	74	96	
	DATE OF OCCURRENCE	13	16	13	15	30	22	17	02	18	04	10	01	AUG 02	
	MEAN DAILY MINIMUM	32.6	27.0	34.6	46.7	49.8	59.2	65.8	66.0	55.7	44.1	37.8	31.1	45.9	
	LOWEST DAILY MINIMUM	20	4	19	29	38	48	53	57	43	30	23	12	4	
	DATE OF OCCURRENCE	27	19	05	09	23	13	07	23+	21	26+	04	09	FEB 19	
	AVERAGE DRY BULB	43.2	36.1	45.1	59.8	61.7	70.1	75.9	76.9	64.6	54.9	48.0	42.4	56.6	
	MEAN WET BULB	38.0	31.0	38.8	50.6	54.5	62.8	69.2	69.3	59.2	48.9	42.4	36.8	50.1	
	MEAN DEW POINT	31.4	22.2	30.2	41.5	48.5	58.4	65.7	65.7	56.0	43.8	36.1	28.7	44.0	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	3	10	11	0	0	0	0	0	24
MAXIMUM <= 32°	0	6	0	0	0	0	0	0	0	0	0	1	7		
MINIMUM <= 32°	18	23	13	2	0	0	0	0	0	4	7	18	85		
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	667	806	611	181	161	10	0	0	74	318	502	695	4025	
	COOLING DEGREE DAYS	0	0	2	31	65	168	345	373	68	11	0	0	1063	
RH	MEAN (PERCENT)	67	60	60	57	67	71	74	73	78	72	68	62	67	
	HOUR 01 LST	72	68	70	73	83	89	90	89	88	83	77	72	80	
	HOUR 07 LST	80	71	73	72	75	80	83	84	89	83	82	74	79	
	HOUR 13 LST	55	51	46	38	47	51	55	50	60	51	52	47	50	
	HOUR 19 LST	65	53	55	47	63	64	76	74	84	73	65	58	65	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	2	2	2	3	4	7	11	11	14	8	3	0	67	
	THUNDERSTORMS	1	0	2	11	3	7	9	8	6	3	0	0	50	
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.)	28.95	29.00	29.02	28.92	28.87	28.97	29.05	28.98	28.97	28.96	29.05	29.15	28.99	
	MEAN SEA-LEVEL PRESS. (IN.)	30.01	30.07	30.08	29.96	29.91	30.00	30.04	30.01	29.99	30.01	30.11	30.22	30.03	
WINDS	RESULTANT SPEED (MPH)	4.2	4.4	2.5	2.2	2.4	1.1	1.5	0.6	1.2	2.4	1.1	2.8	2.1	
	RES. DIR. (TENS OF DEGS.)	23	24	26	25	24	27	23	22	24	27	26	26	25	
	MEAN SPEED (MPH)	6.9	7.4	5.8	5.6	4.8	3.8	3.4	3.3	3.8	4.5	3.1	4.8	4.8	
	PREVAIL.DIR.(TENS OF DEGS.)	24	24	26	23	22	23	22	22	28	26	26	26	24	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	35	29	31	38	33	28	37	38	28	30	38	38	38	
	DIR. (TENS OF DEGS.)	23	24	22	23	29	28	26	32	24	28	26	26	26	
	DATE OF OCCURRENCE	29	04	10	07	25	22	03	30	30	28	16	01	DEC 01	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	45	38	44	47	43	39	46	54	36	43	39	55	55	
DIR. (TENS OF DEGS.)	22	28	24	23	30	30	23	31	23	30	13	25	25		
DATE OF OCCURRENCE	29	17	14	07	25	22	04	30	30	28	15	01	DEC 01		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	3.85	1.20	1.90	3.85	1.68	3.72	8.44	5.78	4.56	4.37	2.07	1.99	43.41	
	GREATEST 24-HOUR (IN.)	1.68	0.34	0.42	0.98	0.65	1.38	3.43	2.16	1.28	1.31	0.55	0.96	3.43	
	DATE OF OCCURRENCE	22-23	11	11-12	14-15	25-26	26-27	12-13	27	22-23	04-05	01	22-23	JUL 12-13	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	17	9	13	14	9	15	11	10	14	13	13	8	146	
PRECIPITATION 0.10	8	4	8	11	6	9	9	7	11	9	6	5	93		
PRECIPITATION 1.00	0	0	0	0	0	0	2	2	0	1	0	0	5		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	3.1	8.5	0.5	T	0.0	0.0	0.0	0.0	T	T	T	0.4	12.5	
	GREATEST 24-HOUR (IN.)	2.0	4.4	0.5	T	0.0	0.0	0.0	0.0	T	T	T	0.4	4.4	
	DATE OF OCCURRENCE	14	11	21	14					28	23	20+	07	FEB 11	
	MAXIMUM SNOW DEPTH (IN.)	1	4	T	0	0	0	0	0	0	0	0	T	4	
	DATE OF OCCURRENCE	15	14+	25+									08	FEB 14+	
	NUMBER OF DAYS WITH:														
SNOWFALL >= 1.0	1	3	0	0	0	0	0	0	0	0	0	0	4		

NORMALS, MEANS, AND EXTREMES CHARLESTON (KCRW)

LATITUDE:
38 ° 22'N

LONGITUDE:
-81 ° 35'W

ELEVATION (FT):
GRND: 910 BARO: 1026

TIME ZONE:
EASTERN (UTC -5)

WBAN: 13866

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	42.6	47.0	56.6	66.7	74.6	81.5	84.9	83.5	77.3	67.1	56.4	46.8	65.4
	MEAN DAILY MAXIMUM	58	43.1	46.8	55.9	67.6	75.7	82.5	85.6	84.4	78.3	67.9	56.5	46.3	65.9
	HIGHEST DAILY MAXIMUM	59	79	79	89	94	93	98	104	101	102	92	85	80	104
	YEAR OF OCCURRENCE		1950	2000	1990	1990	2006	1999	1988	1988	1953	1951	1993	1982	JUL 1988
	MEAN OF EXTREME MAXS.	58	67.2	69.4	79.3	86.2	88.9	92.0	93.9	92.7	90.2	83.1	77.1	68.5	82.4
	NORMAL DAILY MINIMUM	30	24.2	26.7	34.0	41.8	50.3	58.3	62.9	61.7	55.0	43.1	35.3	28.2	43.5
	MEAN DAILY MINIMUM	58	25.2	27.3	34.3	43.5	51.8	59.9	64.5	63.3	56.2	44.6	35.8	28.4	44.6
	LOWEST DAILY MINIMUM	59	-16	-12	0	19	26	33	46	41	34	17	6	-12	-16
	YEAR OF OCCURRENCE		1994	1996	1980	1982	1966	1972	1963	1965	1983	1962	1950	1989	JAN 1994
	MEAN OF EXTREME MINS.	58	3.4	7.7	17.1	26.6	35.5	46.0	53.1	51.9	41.0	28.8	18.8	9.1	28.3
	NORMAL DRY BULB	30	33.4	36.9	45.3	54.3	62.4	69.9	73.9	72.6	66.2	55.1	45.9	37.5	54.5
	MEAN DRY BULB	58	34.1	37.1	45.1	55.5	63.8	71.3	75.1	73.9	67.3	56.3	46.1	37.3	55.2
	MEAN WET BULB	23	31.3	33.6	39.4	48.2	57.2	65.2	69.0	67.8	61.2	50.8	41.8	33.7	49.9
	MEAN DEW POINT	23	26.1	27.8	32.6	41.2	53.1	62.1	66.3	65.3	58.3	46.8	36.5	28.9	45.4
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.4	0.7	4.0	8.4	5.1	1.4	0.0	0.0	0.0	20.0
	MAXIMUM <= 32	30	7.3	4.8	0.8	*	0.0	0.0	0.0	0.0	0.0	0.0	0.2	4.3	17.4
MINIMUM <= 32	30	23.1	19.6	14.2	4.8	0.3	0.0	0.0	0.0	0.0	3.2	12.6	20.2	98.0	
MINIMUM <= 0	30	1.0	0.2	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.5	
H/C	NORMAL HEATING DEG. DAYS	30	977	794	604	330	141	19	8	3	62	309	560	837	4644
	NORMAL COOLING DEG. DAYS	30	0	0	7	25	76	182	300	254	114	17	3	0	978
RH	NORMAL (PERCENT)	30	72	69	63	60	70	74	77	78	78	74	70	73	72
	HOURLY 01 LST	30	76	74	69	68	82	87	90	92	91	86	77	76	81
	HOURLY 07 LST	30	79	78	77	77	85	88	91	93	93	89	82	79	84
	HOURLY 13 LST	30	65	60	53	47	53	56	59	60	59	55	57	63	57
	HOURLY 19 LST	30	67	61	53	48	57	63	67	71	74	68	63	67	63
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH: HEAVY FOG (VISBY <= 1/4 MI)	43	3.3	2.4	2.2	2.7	6.7	9.2	12.1	16.0	15.5	9.4	3.4	2.6	85.5
	THUNDERSTORMS	58	0.5	0.8	2.4	4.0	7.0	8.1	9.6	7.3	3.1	1.1	0.7	0.3	44.9
CLOUDNESS	MEAN: SUNRISE-SUNSET (OKTAS)						7.2	4.0						8.0	
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH: CLEAR	1	1.0		5.0		7.0	12.0	1.0	7.0	4.0	6.0		3.0	
	PARTLY CLOUDY			1.0			2.0	3.0	1.0	3.0	1.0	1.0		2.0	
CLOUDY	1	8.0	10.0	8.0		12.0	5.0	2.0	1.0	7.0	4.0		14.0		
PR	MEAN STATION PRESSURE (IN)	23	29.05	29.03	28.99	28.94	28.96	28.97	28.99	29.02	29.04	29.06	29.06	29.06	29.01
	MEAN SEA-LEVEL PRES. (IN)	23	30.12	30.10	30.05	29.98	29.99	30.00	30.02	30.04	30.07	30.10	30.12	30.14	30.06
WINDS	MEAN SPEED (MPH)	23	5.7	5.5	5.7	5.6	4.5	3.9	3.6	3.2	3.4	3.6	4.7	5.2	4.6
	PREVAIL. DIR (TENS OF DEGS)	27	24	24	24	23	23	23	23	23	06	24	24	24	24
	MAXIMUM 2-MINUTE: SPEED (MPH)	12	35	31	32	38	36	44	37	38	29	38	38	38	44
	DIR. (TENS OF DEGS)		23	14	30	23	28	30	26	32	30	26	26	26	30
	YEAR OF OCCURRENCE		2006	1997	2000	2006	2001	2004	2006	2006	2005	2003	2006	2006	JUN 2004
	MAXIMUM 5-SECOND SPEED (MPH)	12	46	46	46	51	54	67	66	61	37	51	46	55	67
	DIR. (TENS OF DEGS)		13	31	32	27	28	30	20	31	01	26	27	25	30
YEAR OF OCCURRENCE		1996	1999	2002	2004	2001	2004	1997	2000	2004	2003	2003	2006	JUN 2004	
PRECIPITATION	NORMAL (IN)	30	3.25	3.19	3.90	3.25	4.30	4.09	4.86	4.11	3.45	2.67	3.66	3.32	44.05
	MAXIMUM MONTHLY (IN)	59	9.11	7.46	8.35	6.46	8.76	10.56	13.54	10.45	7.69	6.49	9.12	8.02	13.54
	YEAR OF OCCURRENCE		1950	2003	1997	1965	2001	1998	1961	1958	2004	1983	2003	1978	JUL 1961
	MINIMUM MONTHLY (IN)	59	1.09	0.64	1.30	0.50	0.84	0.70	1.98	0.66	0.65	0.09	0.64	0.45	0.09
	YEAR OF OCCURRENCE		1981	1968	1987	1976	1977	1966	1993	1957	1959	1963	1965	1965	OCT 1963
	MAXIMUM IN 24 HOURS (IN)	59	2.45	2.71	2.86	2.72	3.31	2.73	5.60	4.17	4.17	2.48	3.66	2.47	5.60
	YEAR OF OCCURRENCE		1994	2003	1967	1948	1982	2003	1961	1958	2004	1961	2003	1978	JUL 1961
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	15.8	14.0	14.7	13.6	13.8	12.4	12.4	11.1	10.0	9.5	12.4	14.5	154.2
PRECIPITATION >= 1.00	30	0.4	0.3	0.7	0.3	0.8	1.0	1.2	1.0	0.8	0.4	0.8	0.4	8.1	
SNOWFALL	NORMAL (IN)	30	13.4	9.7	6.6	1.3	0.*	0.0	0.0	0.0	0.0	0.1	2.0	5.3	38.4
	MAXIMUM MONTHLY (IN)	51	39.5	21.8	20.4	20.7	0.6	T	T	T	T	2.8	25.8	21.9	39.5
	YEAR OF OCCURRENCE		1978	1964	1993	1987	1989	1994	1990	1989	2006	1961	1950	1995	JAN 1978
	MAXIMUM IN 24 HOURS (IN)	51	15.8	11.2	17.1	11.3	0.6	T	T	T	T	2.8	15.1	11.2	17.1
	YEAR OF OCCURRENCE		1978	1983	1993	1987	1989	1994	1990	1989	1994	1961	1950	1967	MAR 1993
	MAXIMUM SNOW DEPTH (IN)	46	23	13	9	17	T	0	0	0	0	2	19	10	23
	YEAR OF OCCURRENCE		1978	1985	1980	1987	1989					1961	1950	1967	JAN 1978
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	3.6	2.9	2.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.1	11.6	

PRECIPITATION (inches) 2006 CHARLESTON (KCRW)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1977	1.90	1.08	3.16	4.06	0.84	5.93	4.92	6.58	1.14	4.16	3.78	2.07	39.62
1978	5.59	1.31	2.67	3.31	3.99	2.96	9.83	8.21	1.45	2.68	2.26	8.02	52.28
1979	6.48	3.76	3.00	3.82	3.87	3.54	5.17	4.78	3.95	3.67	4.02	2.81	48.87
1980	2.85	2.25	5.32	4.49	2.67	2.17	8.47	10.32	2.37	2.03	3.02	1.85	47.81
1981	1.09	4.59	1.80	4.04	3.78	6.46	3.02	2.24	2.36	2.43	1.29	2.71	35.81
1982	3.74	3.23	4.96	1.14	6.19	7.00	2.68	2.65	2.58	1.65	4.65	2.71	43.18
1983	1.24	2.72	3.15	3.96	5.98	2.77	4.19	2.54	1.33	6.49	4.80	3.19	42.36
1984	1.67	2.56	2.72	4.00	3.71	2.56	4.37	4.57	2.95	3.28	4.73	3.78	40.90
1985	3.07	2.32	4.23	1.84	5.88	3.07	3.22	2.02	0.71	3.65	8.45	2.71	41.17
1986	2.12	4.35	1.87	1.39	4.86	2.36	7.61	4.71	3.51	2.20	6.88	3.89	45.75
1987	3.23	3.34	1.30	4.05	2.49	3.38	4.23	3.56	3.89	1.10	2.71	4.13	37.41
1988	1.62	2.50	2.71	2.17	2.59	0.94	3.00	2.86	3.46	1.87	5.02	2.66	31.40
1989	2.92	6.05	5.81	4.13	6.79	7.54	3.04	5.62	7.28	4.09	2.87	1.83	57.97
1990	2.86	3.74	1.94	2.89	4.87	3.01	5.35	2.54	4.26	3.51	2.07	7.01	44.05
1991	2.68	2.98	6.07	3.49	1.47	2.49	2.84	2.95	5.51	1.10	5.00	5.89	42.47
1992	1.94	2.72	4.79	2.93	4.66	3.21	6.41	4.41	1.38	0.94	3.15	3.50	40.04
1993	1.87	2.98	6.68	1.78	1.98	5.01	1.98	2.71	5.99	3.50	3.95	3.23	41.66
1994	6.42	5.56	7.73	3.78	3.98	4.43	3.71	6.20	1.95	1.13	1.95	2.52	49.36
1995	6.02	2.98	2.73	2.59	6.15	4.93	2.91	5.81	2.70	2.61	3.31	2.79	45.53
1996	5.18	2.82	4.32	3.77	7.40	3.59	8.50	2.82	7.37	2.49	4.36	2.04	54.66
1997	1.76	1.76	8.35	2.77	3.60	5.24	5.83	4.14	1.94	0.84	2.96	1.57	40.76
1998	3.43	4.23	3.41	4.77	5.27	10.56	3.65	3.70	2.50	1.67	1.89	3.18	48.26
1999	4.81	2.67	3.70	2.20	1.90	1.30	5.37	2.97	1.81	3.43	4.53	2.55	37.24
2000	1.41	4.25	2.26	4.67	4.75	3.38	6.06	4.35	2.87	0.87	1.27	2.10	38.24
2001	2.43	1.90	3.28	1.30	8.76	4.19	10.06	2.74	1.85	1.36	1.43	2.47	41.77
2002	3.15	0.89	5.92	4.49	4.86	3.61	3.67	1.72	3.24	6.11	4.12	2.94	44.72
2003	1.79	7.46	1.78	3.40	4.99	9.93	5.89	6.53	4.77	2.46	9.12	2.89	61.01
2004	3.74	2.38	4.45	4.96	8.09	5.70	3.73	3.92	7.69	3.48	4.29	2.91	55.34
2005	3.04	3.12	3.51	4.43	3.01	3.35	4.91	5.62	1.07	3.34	3.56	2.65	41.61
2006	3.85	1.20	1.90	3.85	1.68	3.72	8.44	5.78	4.56	4.37	2.07	1.99	43.41
POR= 58 YRS	3.38	3.20	3.93	3.37	4.10	3.87	5.14	4.01	3.26	2.66	3.38	3.20	43.50

WBAN : 13866

AVERAGE TEMPERATURE (°F) 2006 CHARLESTON (KCRW)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1977	18.6	33.2	49.8	58.4	67.0	68.6	76.9	73.6	70.2	53.4	49.1	35.1	54.5
1978	24.4	24.2	42.6	56.7	63.1	70.9	73.8	74.9	71.0	53.8	49.4	39.0	53.7
1979	28.1	27.9	50.5	55.1	63.0	68.8	72.9	73.4	67.0	54.6	47.5	38.3	53.9
1980	34.1	29.7	42.0	53.3	63.6	68.8	76.6	76.3	69.8	53.6	43.2	36.3	53.9
1981	28.0	37.2	41.4	59.1	60.4	73.2	75.7	72.8	66.5	54.2	45.3	34.6	54.0
1982	29.8	36.1	47.2	51.5	68.6	68.8	76.2	71.1	65.9	57.7	49.0	44.8	55.6
1983	34.0	37.7	47.0	52.1	61.1	71.6	77.0	78.0	68.4	58.1	47.4	32.0	55.4
1984	30.6	41.5	41.1	54.2	61.4	75.3	73.2	74.9	65.4	64.4	44.6	46.9	56.1
1985	27.2	34.0	49.4	60.8	66.3	71.0	75.8	74.0	69.6	62.3	55.5	33.8	56.6
1986	34.1	40.5	47.1	57.9	65.3	72.2	77.2	71.9	69.5	57.9	46.4	36.4	56.4
1987	33.0	37.2	47.0	52.7	68.4	73.5	77.1	77.0	67.1	50.3	49.0	39.8	56.0
1988	31.1	35.2	46.1	54.1	63.2	71.0	78.6	77.4	66.6	49.3	47.0	37.4	54.8
1989	41.1	34.9	47.8	52.8	59.4	71.7	75.7	73.2	67.0	56.7	46.4	26.0	54.4
1990	42.3	45.2	51.7	55.1	62.9	72.3	75.8	74.1	68.7	58.2	50.7	43.6	58.4
1991	36.5	40.3	47.4	60.3	71.7	73.9	77.9	75.2	68.4	59.1	45.8	41.3	58.2
1992	35.6	41.8	45.4	55.7	61.2	68.8	76.0	70.9	67.4	54.1	47.4	37.9	55.2
1993	40.2	34.0	41.8	55.0	64.9	71.4	79.0	76.4	66.6	55.1	47.1	36.6	55.7
1994	28.1	38.7	45.3	60.5	59.7	74.2	76.1	72.4	65.4	54.8	50.6	41.2	55.6
1995	34.7	34.0	46.9	55.2	61.9	71.4	76.4	77.6	64.6	56.9	40.8	32.5	54.4
1996	32.1	35.5	39.6	54.0	64.7	71.9	71.6	72.8	65.9	55.8	40.2	41.4	53.8
1997	35.6	43.8	47.1	50.8	58.7	70.1	74.5	70.8	65.0	55.1	42.2	36.5	54.2
1998	41.0	42.0	45.9	55.4	65.8	70.3	73.7	73.9	70.2	56.1	46.7	40.4	56.8
1999	38.3	39.4	40.1	58.5	64.0	72.9	79.1	72.3	65.8	54.8	48.9	38.2	56.0
2000	32.1	43.2	49.2	54.1	66.0	72.3	71.3	71.8	65.7	57.7	43.3	28.6	54.6
2001	33.2	40.6	40.3	59.1	64.0	70.6	72.4	74.8	64.6	55.1	50.4	42.3	55.6
2002	38.4	38.1	45.7	57.8	60.5	72.8	76.3	75.9	71.2	57.0	43.9	37.6	56.3
2003	28.2	33.9	48.6	57.4	62.2	67.6	73.2	74.4	65.1	54.8	49.7	36.3	54.3
2004	30.9	36.8	48.1	55.8	69.0	70.8	74.5	71.7	68.4	58.9	50.0	37.8	56.1
2005	38.4	39.7	41.7	56.3	59.8	73.9	77.1	77.7	70.4	57.6	48.3	33.4	56.2
2006	43.2	36.1	45.1	59.8	61.7	70.1	75.9	76.9	64.6	54.9	48.0	42.4	56.6
POR= 58 YRS	34.1	37.1	45.1	55.5	63.8	71.3	75.1	73.9	67.3	56.3	46.1	37.3	55.2

HEATING DEGREE DAYS (base 65°F) 2006 CHARLESTON (KCRW)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1977-78	0	2	19	357	482	919	1249	1138	691	258	137	23	5275
1978-79	0	0	18	344	462	797	1137	1031	456	308	125	19	4697
1979-80	5	10	39	331	519	820	951	1017	707	349	106	27	4881
1980-81	0	0	33	356	650	882	1138	774	727	207	175	2	4944
1981-82	0	1	76	335	585	936	1086	801	545	405	36	2	4808
1982-83	1	2	69	268	480	626	955	757	554	388	153	16	4269
1983-84	4	0	66	227	521	1019	1059	674	734	346	171	5	4826
1984-85	1	0	98	74	613	563	1164	860	488	192	54	18	4125
1985-86	0	0	51	127	294	960	954	679	554	249	83	7	3958
1986-87	0	23	23	255	550	880	989	770	549	374	63	4	4480
1987-88	0	0	37	447	473	774	1043	859	577	326	112	38	4686
1988-89	2	0	37	484	534	849	735	837	536	367	221	2	4604
1989-90	0	7	72	270	553	1203	697	549	446	323	111	8	4239
1990-91	0	0	59	230	428	655	876	685	558	192	21	1	3705
1991-92	0	0	80	229	576	729	904	670	602	319	170	24	4303
1992-93	0	1	67	335	522	834	760	862	713	306	73	24	4497
1993-94	0	0	64	307	540	873	1136	732	607	191	197	3	4650
1994-95	0	4	34	308	424	729	932	861	555	306	138	7	4298
1995-96	0	0	72	262	721	999	1008	848	779	357	105	4	5155
1996-97	2	0	59	278	743	727	908	592	547	429	213	23	4521
1997-98	0	6	53	324	676	877	733	639	626	283	60	38	4315
1998-99	0	0	29	290	541	758	821	711	763	213	74	13	4213
1999-00	0	1	56	312	475	821	1014	627	490	320	51	14	4181
2000-01	0	0	94	250	644	1122	978	681	759	249	82	13	4872
2001-02	0	0	95	309	433	699	822	748	591	256	198	0	4151
2002-03	0	0	14	280	624	843	1135	865	503	244	106	34	4648
2003-04	0	0	61	312	451	883	1053	811	523	293	43	6	4436
2004-05	0	5	21	187	446	837	820	702	713	259	180	2	4172
2005-06	0	0	11	245	502	974	667	806	611	181	161	10	4168
2006-	0	0	74	318	502	695							

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COOLING DEGREE DAYS (base 65°F) 2006 CHARLESTON (KCRW)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1977	0	0	18	50	148	165	373	277	180	4	12	0	1227
1978	0	0	0	16	88	207	279	314	205	4	1	0	1114
1979	0	0	13	18	69	138	257	277	105	17	0	0	894
1980	0	0	0	6	71	147	370	358	182	9	0	0	1143
1981	0	0	2	38	41	256	340	251	126	5	0	0	1059
1982	0	0	0	6	154	122	355	196	101	47	5	6	992
1983	0	0	2	6	39	222	385	407	177	18	0	0	1256
1984	0	0	0	27	64	318	261	312	116	65	7	8	1178
1985	0	0	9	72	105	204	339	285	194	52	14	0	1274
1986	0	0	4	41	100	227	384	244	167	43	0	0	1210
1987	0	0	0	13	177	268	381	379	108	0	2	0	1328
1988	0	0	3	9	64	225	430	392	91	4	3	0	1221
1989	0	0	11	6	55	211	339	273	140	23	2	0	1060
1990	0	0	41	33	54	232	342	286	174	28	7	0	1197
1991	0	0	17	60	236	273	408	324	190	53	5	0	1566
1992	0	0	2	47	57	143	347	192	145	4	0	0	937
1993	0	0	0	14	76	222	444	364	119	7	8	0	1254
1994	0	0	4	62	37	288	353	240	51	0	1	0	1036
1995	1	0	1	20	51	209	363	401	69	23	2	0	1140
1996	0	0	0	34	105	214	213	247	93	2	5	0	913
1997	1	5	0	11	23	182	302	195	61	23	0	0	803
1998	0	0	39	3	93	205	275	283	194	20	0	4	1116
1999	0	0	0	24	48	254	443	236	89	1	0	0	1095
2000	0	0	5	3	93	241	201	218	122	27	0	0	910
2001	0	0	0	80	56	185	235	310	93	12	0	0	971
2002	0	0	0	48	64	241	360	344	208	42	0	0	1307
2003	0	0	1	22	26	120	260	297	72	1	1	0	800
2004	1	0	8	22	173	188	303	219	131	7	3	0	1055
2005	0	0	0	6	23	278	383	400	182	24	8	0	1304
2006	0	0	2	31	65	168	345	373	68	11	0	0	1063

SNOWFALL (inches) 2006 CHARLESTON (KCRW)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1977-78	0.0	0.0	0.0	0.0	4.4	5.4	39.5	15.6	11.7	0.0	0.0	0.0	76.6
1978-79	0.0	0.0	0.0	0.0	T	1.5	27.5	20.1	5.5	T	0.0	0.0	54.6
1979-80	0.0	0.0	0.0	T	0.9	0.4	11.7	12.7	10.5	T	0.0	0.0	36.2
1980-81	0.0	0.0	0.0	T	0.5	2.6	9.1	6.8	7.5	T	0.0	0.0	26.5
1981-82	0.0	0.0	0.0	T	0.5	8.2	12.1	6.4	7.4	1.0	0.0	0.0	35.6
1982-83	0.0	0.0	0.0	0.0	T	2.9	5.8	15.0	5.2	0.1	0.0	0.0	29.0
1983-84	0.0	0.0	0.0	0.0	0.3	3.8	12.8	9.7	2.4	0.0	0.0	0.0	29.0
1984-85	0.0	0.0	0.0	0.0	T	3.7	17.6	20.1	0.9	1.7	0.0	0.0	44.0
1985-86	0.0	0.0	0.0	0.0	0.0	8.9	13.1	17.7	3.7	T	0.0	0.0	43.4
1986-87	0.0	0.0	0.0	0.0	0.2	0.1	16.3	9.7	3.9	20.7	0.0	0.0	50.9
1987-88	0.0	0.0	0.0	T	2.4	5.7	8.3	7.8	4.6	T	0.0	0.0	28.8
1988-89	0.0	0.0	0.0	T	T	6.9	1.7	4.6	T	1.4	0.6	0.0	15.2
1989-90	0.0	T	T	T	2.0	14.1	11.0	3.8	6.6	1.1	0.0	0.0	38.6
1990-91	T	0.0	0.0	0.0	0.0	1.2	3.5	6.5	5.3	T	0.0	0.0	16.5
1991-92	0.0	0.0	0.0	0.0	4.1	0.7	5.6	1.1	8.6	3.6	T	T	23.7
1992-93	0.0	0.0	0.0	T	2.5	3.7	0.4	12.0	20.4	T	0.0	T	39.0
1993-94	0.0	0.0	0.0	1.5	0.4	12.4	34.2	7.0	3.1	0.0	0.0	T	58.6
1994-95	0.0	0.0	T	0.0	T	T	9.1	7.9	8.7	0.0	0.0	0.0	25.7
1995-96	0.0	0.0	0.0	0.0	13.6	21.9	35.1	14.2	20.4	0.8	0.0	T	106.0
1996-97	0.0	0.0	0.0										
1997-98													
1998-99													
1999-00													
2000-01													
2001-02													
2002-03													
2003-04													
2004-05						4.8	6.8	6.0	8.8	0.7	0.0	0.0	
2005-06	0.0	0.0	0.0	0.0	0.9	4.7	3.1	8.5	0.5	T	0.0	0.0	17.7
2006-	0.0	0.0	T	T	T	0.4							
POR= 58 YRS	T	T	T	0.1	1.9	4.5	9.2	7.5	4.8	0.7	T	T	28.7

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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 CHARLESTON WEST VIRGINIA (KCRW)

Charleston lies at the junction of the Kanawha and Elk Rivers in the western foothills of the Appalachian Mountains. The main urban and business areas have developed along the two river valleys, while some residential areas are in nearby valleys and on the surrounding hills. The hilltops are around 1,100 feet above sea level, about 500 feet higher than the valleys. The Kanawha Airport is just over 2 miles northeast of the center-city area, on an artificial plateau constructed from several hilltops.

Weather records are maintained at the Kanawha Airport by National Weather Service personnel. This site tends to be slightly cooler than the river valleys during the afternoons. Conversely, the valleys can become cooler than the hilltops during clear, calm nights. The weather at Charleston is highly changeable, especially from mid-autumn through the spring.

Winters can vary greatly from one season to the next. Snow does not favor any given winter month, heavy snowstorms are infrequent, and most snowfalls are in the 4-inch or less category. Snow and ice usually do not persist on valley roads, but can linger longer on nearby hills and outlying rural roads.

Afternoon temperatures in the 40s and morning readings in the 20s are common during the winter. Yet, every winter typically has two or three extended cold spells when temperatures stay below freezing for a few consecutive days. Northwesterly winds are associated with the cold weather. Air reaching Charleston from the northwest can cause cloudiness and flurries, even when there is no nearby organized storm system. Winter conditions are much more severe over the higher mountains less than 50 miles to the northeast through the southeast. Temperatures warm rapidly in the spring and are accompanied by low daytime humidities.

Summer and early autumn have more day-to-day consistency in the weather. Sunshine is more abundant than in winter. Summer precipitation falls mostly in brief, but sometimes heavy, showers. Flash flooding can occur along small streams, but flooding is rare on the dam-controlled Kanawha and Elk Rivers.

Afternoon summer temperatures are mostly in the 80s. Readings above 95 degrees are rare. However, during a hot spell, haze and humidity can add to the unpleasantness and indoor air conditioning is recommended. Cooler and less humid air often penetrates the area from the north to end a hot spell.

Early morning fog is common from late June into October. Industrial and vehicular pollutants can contribute to limited visibility any time of the year, especially when cooler air becomes trapped in the valleys. Autumn foliage is generally at its peak during the second and third weeks of October. By the end of October, the first 32 degree temperature has usually arrived.

Ample precipitation is well distributed throughout the year. July is quite often the wettest month of the year, while October averages the least rain. Droughts severe enough to limit water use are scarce. Any dry spells during the spring or autumn can cause conditions favorable for brush fires in outlying areas.

Station Location

CHARLESTON

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:																
AIRPORT																
NWS Building Kanawha Airport+	5/16/79	10/01/94	app. 0.7 mi. SSE	38° 22'	81° 36'	939	n32 q36	4	4		3	4	3	n4 p4 q4	n. Not moved 5/16/79. p. Type change 3/17/86. q. Move from field to NWS Bldg 8/3/89.	
Yeager Airport	10/01/94	Present	NA	38° 23'	81° 35'	r1023								s	ASOS Commissioned 10/01/94 r. Ground Elevation	

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* NOTES: For earlier station history see previous editions.