

1998

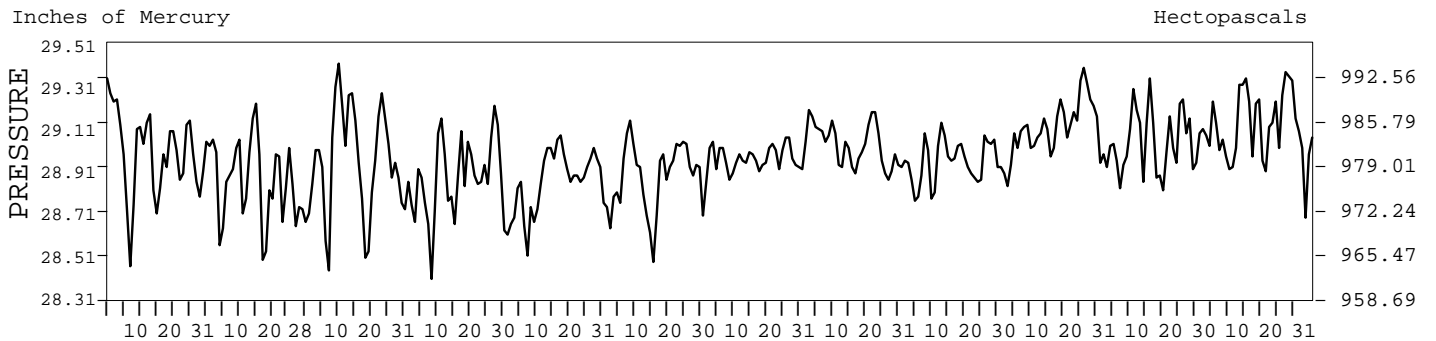
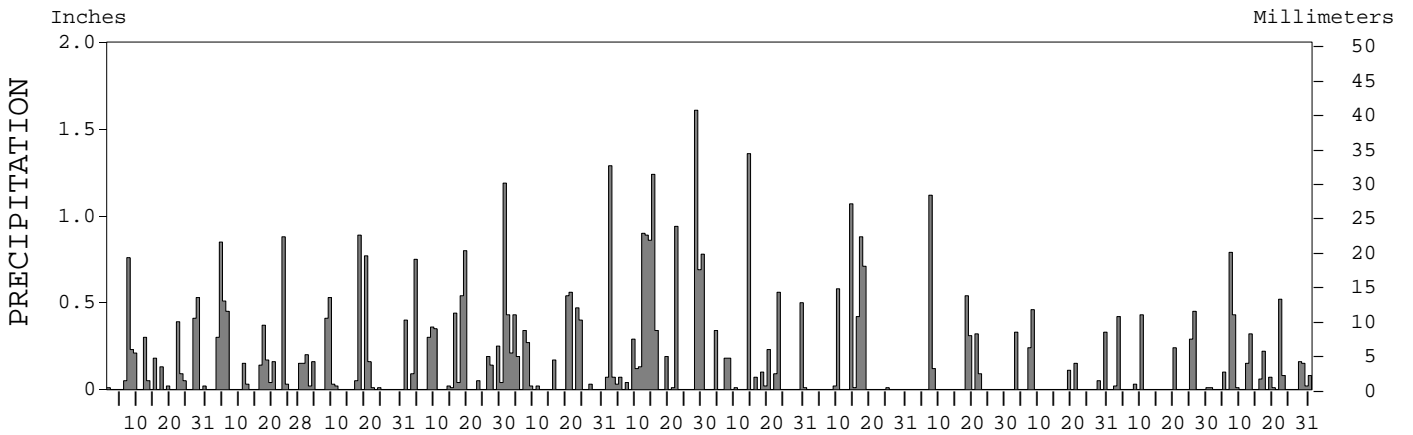
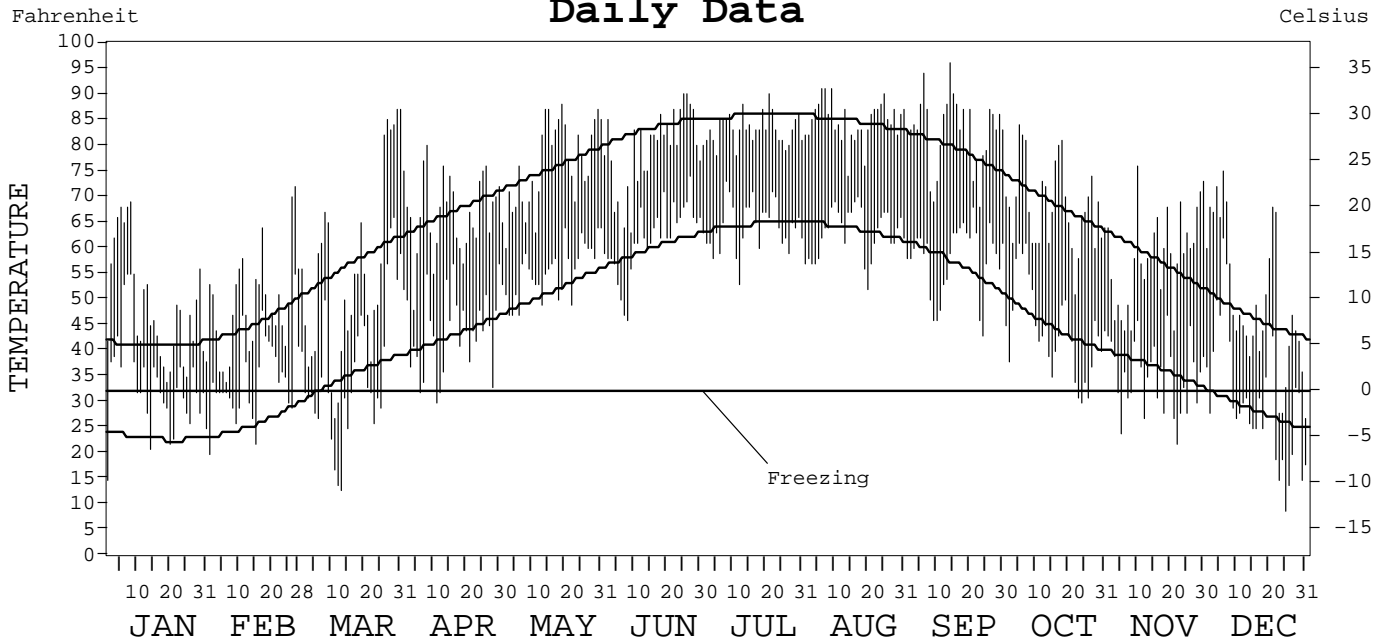
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-5612

CHARLESTON,
WEST VIRGINIA (CRW)

Daily Data



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Thomas R. Karl

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|---|---|---|---|---|

METEOROLOGICAL DATA FOR 1998

CHARLESTON, WV (CRW)

LATITUDE: 38° 22' 46" N LONGITUDE: 81° 35' 29" W ELEVATION (FT): GRND: 982 BARO: 1019 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 | 48.5 | 49.2 | 55.4 | 66.9 | 76.1 | 78.8 | 83.1 | 84.8 | 82.6 | 68.2 | 58.3 | 49.8 | 66.8 | |
| | HIGHEST DAILY MAXIMUM | 69 | 72 | 87 | 80 | 88 | 90 | 90 | 91 | 96 | 84 | 76 | 75 | 96 | |
| | DATE OF OCCURRENCE | 08 | 27 | 31+ | 08 | 19 | 26+ | 21 | 09+ | 14 | 05 | 10 | 06 | SEP 14 | |
| | MEAN DAILY MINIMUM | 33.5 | 34.7 | 36.4 | 43.9 | 55.5 | 61.7 | 64.2 | 63.0 | 57.8 | 44.0 | 35.1 | 30.9 | 46.7 | |
| | LOWEST DAILY MINIMUM | 15 | 20 | 13 | 30 | 47 | 46 | 53 | 52 | 43 | 30 | 22 | 9 | 9 | |
| | DATE OF OCCURRENCE | 01 | 01 | 13 | 11 | 06+ | 08 | 12 | 20 | 24 | 24 | 22 | 25 | DEC 25 | |
| | AVERAGE DRY BULB | 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 | |
| | MEAN WET BULB | 37.9 | 38.8 | 41.3 | 49.6 | 61.5 | 66.2 | 69.0 | 68.1 | 63.9 | 51.1 | 41.7 | 37.2 | 52.2 | |
| | MEAN DEW POINT | 34.1 | 35.1 | 35.8 | 43.6 | 59.0 | 63.9 | 66.9 | 65.6 | 60.8 | 47.4 | 35.6 | 33.1 | 48.4 | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | MAXIMUM ≥ 90° | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 4 | 3 | 0 | 0 | 0 | 10 | |
| | MAXIMUM ≤ 32° | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 6 | |
| | MINIMUM ≤ 32° | 17 | 14 | 17 | 3 | 0 | 0 | 0 | 0 | 0 | 3 | 12 | 20 | 86 | |
| MINIMUM ≤ 0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| H/C | HEATING DEGREE DAYS | 733 | 639 | 626 | 283 | 60 | 38 | 0 | 0 | 29 | 290 | 541 | 758 | 3997 | |
| | COOLING DEGREE DAYS | 0 | 0 | 39 | 3 | 93 | 205 | 275 | 283 | 194 | 20 | 0 | 4 | 1116 | |
| RH | MEAN (PERCENT) | 80 | 79 | 71 | 69 | 83 | 83 | 83 | 81 | 79 | 80 | 69 | 78 | 78 | |
| | HOUR 01 LST | 81 | 85 | 79 | 78 | 94 | 94 | 98 | 97 | 95 | 95 | 82 | 84 | 88 | |
| | HOUR 07 LST | 84 | 86 | 84 | 90 | 97 | 92 | 97 | 98 | 98 | 97 | 85 | 87 | 91 | |
| | HOUR 13 LST | 74 | 71 | 59 | 53 | 65 | 67 | 62 | 59 | 53 | 56 | 51 | 68 | 62 | |
| | HOUR 19 LST | 78 | 72 | 61 | 56 | 75 | 77 | 75 | 74 | 75 | 76 | 57 | 72 | 71 | |
| S | PERCENT POSSIBLE SUNSHINE | | | | | | | | | | | | | | |
| W/O | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | HEAVY FOG (VISBY ≤ 1/4 MI) | 5 | 7 | 2 | 2 | 9 | 3 | 11 | 15 | 15 | 8 | 2 | 6 | 85 | |
| | THUNDERSTORMS | 1 | 1 | 3 | 5 | 9 | 14 | 10 | 7 | 5 | 0 | 2 | 0 | 57 | |
| 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.) | 29.01 | 28.88 | 28.96 | 28.89 | 28.86 | 28.89 | 28.98 | 29.04 | 28.96 | 29.13 | 29.06 | 29.13 | 28.98 | |
| | MEAN SEA-LEVEL PRESS. (IN.) | 30.07 | 29.93 | 30.01 | 29.93 | 29.89 | 29.91 | 30.01 | 30.06 | | 30.18 | 30.12 | 30.20 | | |
| WINDS | RESULTANT SPEED (MPH) | 1.0 | 1.0 | 2.0 | 1.1 | 0.5 | 1.3 | 0.9 | 0.2 | 0.2 | 0.2 | 1.2 | 1.5 | 0.8 | |
| | RES. DIR. (TENS OF DEGS.) | 19 | 14 | 21 | 23 | 29 | 21 | 23 | 24 | 23 | 25 | 24 | 24 | 22 | |
| | MEAN SPEED (MPH) | 3.3 | 4.0 | 5.4 | 4.3 | 2.5 | 3.5 | 2.3 | 2.2 | 2.1 | 2.0 | 3.5 | 3.2 | 3.2 | |
| | PREVAIL. DIR. (TENS OF DEGS.) | 17 | 04 | 22 | 22 | 22 | 22 | 21 | 21 | 21 | 15 | 23 | 22 | 22 | |
| | MAXIMUM 2-MINUTE WIND: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 20 | 28 | 28 | 24 | 23 | 35 | 15 | 18 | 21 | 20 | 32 | 24 | 35 | |
| | DIR. (TENS OF DEGS.) | 19 | 11 | 25 | 26 | 22 | 35 | 21 | 19 | 31 | 16 | 17 | 20 | 35 | |
| | DATE OF OCCURRENCE | 13 | 17 | 09 | 09 | 31 | 02 | 30+ | 25 | 08 | 06 | 10 | 21 | JUN 02 | |
| | MAXIMUM 5-SECOND WIND: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 28 | 38 | 43 | 44 | 31 | 52 | 22 | 23 | 28 | 30 | 41 | 32 | 52 | |
| DIR. (TENS OF DEGS.) | 28 | 13 | 25 | 29 | 21 | 35 | 22 | 17 | 31 | 29 | 17 | 21 | 35 | | |
| DATE OF OCCURRENCE | 09 | 17 | 09 | 08 | 31 | 02 | 30 | 25 | 08 | 07 | 10 | 21 | JUN 02 | | |
| PRECIPITATION | WATER EQUIVALENT: | | | | | | | | | | | | | | |
| | TOTAL (IN.) | 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 | |
| | GREATEST 24-HOUR (IN.) | 0.76 | 1.15 | 0.93 | 1.33 | 1.19 | 1.61 | 1.36 | 1.30 | 1.22 | 0.70 | 0.74 | 0.80 | 1.61 | |
| | DATE OF OCCURRENCE | 07 | 03-04 | 17-18 | 18-19 | 01-02 | 28 | 14 | 16-17 | 07-08 | 07-08 | 25-26 | 07-08 | JUN 28 | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | PRECIPITATION ≥ 0.01 | 16 | 14 | 14 | 17 | 15 | 20 | 13 | 8 | 6 | 7 | 8 | 17 | 155 | |
| PRECIPITATION ≥ 0.10 | 9 | 11 | 8 | 11 | 12 | 14 | 8 | 5 | 5 | 6 | 5 | 9 | 103 | | |
| PRECIPITATION ≥ 1.00 | 0 | 0 | 0 | 0 | 1 | 3 | 1 | 1 | 1 | 0 | 0 | 0 | 7 | | |
| SNOWFALL | SNOW, ICE PELLETS, HAIL: | | | | | | | | | | | | | | |
| | TOTAL (IN.) | | | | | | | | | | | | | | |
| | GREATEST 24-HOUR (IN.) | | | | | | | | | | | | | | |
| | DATE OF OCCURRENCE | | | | | | | | | | | | | | |
| | MAXIMUM SNOW DEPTH (IN.) | | | | | | | | | | | | | | |
| | DATE OF OCCURRENCE | | | | | | | | | | | | | | |
| NUMBER OF DAYS WITH: | | | | | | | | | | | | | | | |
| SNOWFALL ≥ 1.0 | | | | | | | | | | | | | | | |

NORMALS, MEANS, AND EXTREMES

CHARLESTON, WV (CRW)

LATITUDE: 38° 22' 46" N LONGITUDE: 81° 35' 29" W ELEVATION (FT): GRND: 982 BARO: 1019 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 | 41.2 | 45.3 | 56.7 | 66.8 | 75.5 | 83.1 | 85.7 | 84.4 | 78.8 | 68.2 | 57.3 | 46.0 | 65.8 |
| | MEAN DAILY MAXIMUM | 45 | 42.4 | 46.3 | 56.1 | 67.3 | 75.9 | 82.6 | 85.6 | 84.4 | 78.5 | 67.9 | 56.0 | 46.2 | 65.8 |
| | HIGHEST DAILY MAXIMUM | 51 | 79 | 78 | 89 | 94 | 93 | 98 | 104 | 101 | 102 | 92 | 85 | 80 | 104 |
| | YEAR OF OCCURRENCE | | 1950 | 1997 | 1990 | 1990 | 1991 | 1988 | 1988 | 1988 | 1953 | 1951 | 1993 | 1982 | JUL 1988 |
| | MEAN OF EXTREME MAXS. | 50 | 66.6 | 68.9 | 79.5 | 86.2 | 89.2 | 92.2 | 94.3 | 92.8 | 90.5 | 83.0 | 76.7 | 68.3 | 82.3 |
| | NORMAL DAILY MINIMUM | 30 | 23.0 | 25.7 | 35.0 | 42.8 | 51.5 | 59.8 | 64.4 | 63.4 | 56.5 | 44.2 | 36.3 | 28.0 | 44.2 |
| | MEAN DAILY MINIMUM | 45 | 24.4 | 26.9 | 34.4 | 43.3 | 51.9 | 59.7 | 64.2 | 63.3 | 56.3 | 44.5 | 35.6 | 28.3 | 44.4 |
| | LOWEST DAILY MINIMUM | 51 | -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. | 50 | 2.8 | 6.8 | 16.8 | 26.2 | 35.4 | 46.0 | 52.7 | 51.4 | 40.9 | 28.6 | 18.4 | 8.9 | 27.9 |
| | NORMAL DRY BULB | 30 | 32.1 | 35.5 | 45.9 | 54.8 | 63.5 | 71.4 | 75.1 | 73.9 | 67.7 | 56.2 | 46.8 | 37.0 | 55.0 |
| | MEAN DRY BULB | 50 | 33.9 | 36.8 | 45.0 | 55.2 | 63.8 | 71.4 | 75.1 | 73.8 | 67.4 | 56.4 | 45.8 | 37.4 | 55.2 |
| | MEAN WET BULB | 46 | 30.4 | 32.4 | 39.0 | 47.4 | 56.7 | 64.3 | 68.2 | 67.4 | 61.2 | 50.5 | 40.7 | 33.5 | 49.3 |
| | MEAN DEW POINT | 46 | 23.9 | 25.5 | 31.0 | 39.1 | 51.3 | 60.5 | 65.1 | 64.5 | 57.7 | 45.7 | 34.5 | 27.6 | 43.9 |
| | NORMAL NO. DAYS WITH: | | | | | | | | | | | | | | |
| MAXIMUM ≥ 90° | 30 | 0.0 | 0.0 | 0.0 | 0.4 | 1.1 | 4.6 | 7.5 | 4.8 | 1.9 | 0.0 | 0.0 | 0.0 | 20.3 | |
| MAXIMUM ≤ 32° | 30 | 8.4 | 5.2 | 0.7 | * | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 4.9 | 19.5 | |
| MINIMUM ≤ 32° | 30 | 24.0 | 20.7 | 13.7 | 4.8 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 3.8 | 12.2 | 21.0 | 100.7 | |
| MINIMUM ≤ 0° | 30 | 1.2 | 0.4 | * | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 2.0 | |
| H/C | NORMAL HEATING DEG. DAYS | 30 | 1020 | 826 | 592 | 312 | 129 | 10 | 0 | 0 | 44 | 299 | 546 | 868 | 4646 |
| | NORMAL COOLING DEG. DAYS | 30 | 0 | 0 | 0 | 6 | 83 | 202 | 313 | 276 | 125 | 26 | 0 | 0 | 1031 |
| RH | NORMAL (PERCENT) | 30 | 69 | 67 | 61 | 59 | 67 | 72 | 76 | 77 | 78 | 72 | 69 | 70 | 70 |
| | HOUR 01 LST | 30 | 74 | 72 | 67 | 67 | 79 | 86 | 90 | 91 | 90 | 83 | 76 | 75 | 79 |
| | HOUR 07 LST | 30 | 77 | 77 | 74 | 76 | 83 | 86 | 90 | 92 | 92 | 87 | 81 | 78 | 83 |
| | HOUR 13 LST | 30 | 62 | 59 | 52 | 47 | 51 | 54 | 58 | 59 | 58 | 54 | 57 | 62 | 56 |
| | HOUR 19 LST | 30 | 63 | 60 | 52 | 47 | 55 | 61 | 66 | 69 | 73 | 65 | 62 | 66 | 62 |
| S | PERCENT POSSIBLE SUNSHINE | | | | | | | | | | | | | | |
| W/O | MEAN NO. DAYS WITH: | | | | | | | | | | | | | | |
| | HEAVY FOG(VISBY≤1/4 MI) | 51 | 3.9 | 3.2 | 2.8 | 2.9 | 7.6 | 11.1 | 14.2 | 18.1 | 16.0 | 10.5 | 4.3 | 3.6 | 98.2 |
| | THUNDERSTORMS | 51 | 0.5 | 0.9 | 2.3 | 4.1 | 6.7 | 8.2 | 9.6 | 7.2 | 3.2 | 1.1 | 0.7 | 0.3 | 44.8 |
| CLOUDINESS | MEAN: | | | | | | | | | | | | | | |
| | SUNRISE-SUNSET (OKTAS) | 1 | | | | | 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 | | 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) | 26 | 29.07 | 29.04 | 28.99 | 28.97 | 28.97 | 28.99 | 29.02 | 29.05 | 29.06 | 29.08 | 29.07 | 29.07 | 29.03 |
| | MEAN SEA-LEVEL PRES. (IN) | 46 | 30.12 | 30.09 | 30.03 | 30.00 | 30.00 | 30.00 | 30.03 | 30.04 | 30.08 | 30.11 | 30.10 | 30.13 | 30.06 |
| WINDS | MEAN SPEED (MPH) | 32 | 7.0 | 6.9 | 7.7 | 7.1 | 5.9 | 5.0 | 4.6 | 4.2 | 4.4 | 4.7 | 6.1 | 6.4 | 5.8 |
| | PREVAIL.DIR(TENS OF DEGS) | 19 | 24 | 23 | 23 | 24 | 23 | 23 | 23 | 23 | 06 | 23 | 23 | 23 | 23 |
| | MAXIMUM 2-MINUTE: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 4 | 34 | 31 | 28 | 30 | 31 | 35 | 30 | 18 | 21 | 25 | 32 | 24 | 35 |
| | DIR. (TENS OF DEGS) | | 01 | 14 | 25 | 01 | 02 | 35 | 01 | 19 | 31 | 23 | 17 | 27 | 35 |
| | YEAR OF OCCURRENCE | | 1996 | 1997 | 1998 | 1996 | 1995 | 1998 | 1995 | 1998 | 1998 | 1996 | 1998 | 1997 | JUN 1998 |
| | MAXIMUM 5-SECOND: | | | | | | | | | | | | | | |
| SPEED (MPH) | 4 | 46 | 40 | 43 | 44 | 41 | 52 | 66 | 30 | 30 | 39 | 41 | 37 | 66 | |
| DIR. (TENS OF DEGS) | | 01 | 14 | 25 | 29 | 02 | 35 | 01 | 24 | 30 | 22 | 17 | 27 | 01 | |
| YEAR OF OCCURRENCE | | 1996 | 1997 | 1998 | 1998 | 1995 | 1998 | 1997 | 1997 | 1996 | 1996 | 1998 | 1997 | JUL 1997 | |
| PRECIPITATION | NORMAL (IN) | 30 | 2.91 | 3.04 | 3.63 | 3.31 | 3.94 | 3.59 | 4.99 | 4.01 | 3.24 | 2.89 | 3.59 | 3.39 | 42.53 |
| | MAXIMUM MONTHLY (IN) | 51 | 9.11 | 6.89 | 8.35 | 6.46 | 7.40 | 10.56 | 13.54 | 10.45 | 7.61 | 6.49 | 8.45 | 8.02 | 13.54 |
| | YEAR OF OCCURRENCE | | 1950 | 1956 | 1997 | 1965 | 1996 | 1998 | 1961 | 1958 | 1971 | 1983 | 1985 | 1978 | JUL 1961 |
| | MINIMUM MONTHLY (IN) | 51 | 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) | 51 | 2.45 | 2.45 | 2.86 | 2.72 | 3.31 | 2.24 | 5.60 | 4.17 | 2.40 | 2.48 | 2.88 | 2.47 | 5.60 |
| | YEAR OF OCCURRENCE | | 1994 | 1951 | 1967 | 1948 | 1982 | 1962 | 1961 | 1958 | 1956 | 1961 | 1991 | 1978 | JUL 1961 |
| | NORMAL NO. DAYS WITH: | | | | | | | | | | | | | | |
| PRECIPITATION ≥ 0.01 | 30 | 14.9 | 13.6 | 14.4 | 13.8 | 13.1 | 11.4 | 12.9 | 11.2 | 10.0 | 9.6 | 12.1 | 14.2 | 151.2 | |
| PRECIPITATION ≥ 1.00 | 30 | 0.4 | 0.3 | 0.5 | 0.4 | 0.6 | 0.7 | 1.3 | 0.8 | 0.8 | 0.6 | 0.9 | 0.5 | 7.8 | |
| SNOWFALL | NORMAL (IN) | 30 | 12.2 | 10.3 | 4.6 | 1.0 | 0.* | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 1.6 | 6.1 | 36.0 |
| | MAXIMUM MONTHLY (IN) | 49 | 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 | 1994 | 1961 | 1950 | 1995 | JAN 1978 |
| | MAXIMUM IN 24 HOURS (IN) | 49 | 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) | 44 | 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 | 3.9 | 3.1 | 1.5 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.* | 0.7 | 2.1 | 11.5 | |

PRECIPITATION (inches) 1998 CHARLESTON, WV (CRW)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|----------------|------|------|------|------|------|-------|------|-------|------|------|------|------|--------|
| 1969 | 1.50 | 1.27 | 1.43 | 2.35 | 1.95 | 2.43 | 6.13 | 8.20 | 3.27 | 1.52 | 2.22 | 4.85 | 37.12 |
| 1970 | 1.15 | 3.51 | 4.23 | 3.19 | 1.13 | 2.35 | 3.53 | 4.84 | 3.55 | 5.19 | 2.34 | 3.81 | 38.82 |
| 1971 | 2.35 | 3.40 | 1.97 | 1.19 | 5.17 | 2.58 | 6.59 | 2.12 | 7.61 | 1.30 | 2.83 | 1.71 | 38.82 |
| 1972 | 5.47 | 5.51 | 2.17 | 5.16 | 2.55 | 4.33 | 4.13 | 4.13 | 3.61 | 2.48 | 5.26 | 6.35 | 51.15 |
| 1973 | 1.52 | 2.41 | 3.40 | 5.44 | 5.36 | 4.48 | 6.88 | 2.07 | 3.91 | 4.75 | 5.42 | 3.68 | 49.32 |
| 1974 | 4.67 | 2.50 | 4.54 | 3.05 | 6.06 | 5.07 | 2.16 | 4.22 | 2.64 | 1.64 | 3.72 | 3.19 | 43.46 |
| 1975 | 4.84 | 3.10 | 6.01 | 4.03 | 6.44 | 4.25 | 2.71 | 5.14 | 4.99 | 3.08 | 2.66 | 3.74 | 50.99 |
| 1976 | 2.89 | 2.11 | 4.21 | 0.50 | 3.66 | 4.24 | 6.93 | 2.23 | 5.37 | 5.44 | 1.02 | 2.18 | 40.78 |
| 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 |
| POR= 97 YRS | 3.63 | 3.28 | 4.09 | 3.56 | 3.86 | 3.92 | 4.90 | 4.14 | 3.08 | 2.71 | 3.20 | 3.22 | 43.59 |

WBAN : 13866

AVERAGE TEMPERATURE (°F) 1998 CHARLESTON, WV (CRW)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 1969 | 32.7 | 35.2 | 38.7 | 56.2 | 64.1 | 73.7 | 76.6 | 72.1 | 64.1 | 53.9 | 41.3 | 32.3 | 53.4 |
| 1970 | 28.5 | 36.2 | 43.3 | 58.2 | 66.9 | 73.1 | 74.6 | 73.6 | 70.0 | 57.4 | 46.0 | 38.4 | 55.5 |
| 1971 | 29.4 | 35.2 | 39.7 | 51.9 | 59.9 | 73.5 | 72.4 | 71.9 | 70.7 | 63.8 | 45.9 | 47.3 | 55.1 |
| 1972 | 38.7 | 35.2 | 43.8 | 54.5 | 63.7 | 64.9 | 73.4 | 72.7 | 68.7 | 52.5 | 43.4 | 42.1 | 54.5 |
| 1973 | 34.3 | 35.1 | 52.2 | 53.8 | 60.8 | 73.3 | 74.5 | 74.6 | 70.1 | 58.9 | 46.8 | 38.0 | 56.0 |
| 1974 | 43.5 | 37.1 | 49.1 | 56.9 | 64.2 | 67.8 | 74.2 | 73.6 | 63.2 | 52.4 | 45.2 | 36.8 | 55.3 |
| 1975 | 35.7 | 38.0 | 39.8 | 50.2 | 66.1 | 71.7 | 74.2 | 76.7 | 63.9 | 57.6 | 50.2 | 38.6 | 55.2 |
| 1976 | 31.7 | 45.8 | 51.6 | 55.2 | 61.9 | 71.9 | 72.4 | 70.2 | 63.3 | 49.5 | 37.6 | 31.0 | 53.5 |
| 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 |
| POR= 91 YRS | 35.7 | 37.9 | 45.9 | 55.8 | 64.5 | 72.1 | 76.0 | 74.7 | 68.9 | 57.4 | 46.6 | 37.9 | 56.1 |

HEATING DEGREE DAYS (base 65°F) 1998 CHARLESTON, WV (CRW)

| YEAR | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|---------|-----|-----|-----|-----|-----|------|------|------|-----|-----|-----|-----|-------|
| 1969-70 | 0 | 0 | 95 | 352 | 703 | 1007 | 1125 | 801 | 666 | 239 | 82 | 1 | 5071 |
| 1970-71 | 3 | 0 | 40 | 246 | 563 | 817 | 1097 | 828 | 778 | 387 | 184 | 2 | 4945 |
| 1971-72 | 0 | 1 | 13 | 78 | 578 | 543 | 809 | 856 | 649 | 333 | 90 | 81 | 4031 |
| 1972-73 | 16 | 2 | 14 | 378 | 642 | 701 | 945 | 832 | 394 | 351 | 157 | 4 | 4436 |
| 1973-74 | 0 | 1 | 19 | 202 | 541 | 833 | 659 | 775 | 500 | 277 | 115 | 25 | 3947 |
| 1974-75 | 0 | 0 | 110 | 388 | 590 | 869 | 899 | 749 | 772 | 445 | 59 | 4 | 4885 |
| 1975-76 | 0 | 0 | 106 | 227 | 441 | 813 | 1025 | 549 | 427 | 342 | 142 | 4 | 4076 |
| 1976-77 | 0 | 9 | 84 | 475 | 814 | 1047 | 1432 | 888 | 482 | 242 | 81 | 52 | 5606 |
| 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- | 0 | 0 | 29 | 290 | 541 | 758 | | | | | | | |

WBAN : 13866

COOLING DEGREE DAYS (base 65°F) 1998 CHARLESTON, WV (CRW)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| 1969 | 0 | 0 | 0 | 7 | 79 | 277 | 368 | 227 | 75 | 15 | 0 | 0 | 1048 |
| 1970 | 0 | 0 | 0 | 40 | 147 | 251 | 310 | 273 | 197 | 18 | 0 | 0 | 1236 |
| 1971 | 0 | 0 | 0 | 0 | 32 | 265 | 237 | 219 | 190 | 49 | 11 | 5 | 1008 |
| 1972 | 0 | 0 | 0 | 24 | 56 | 85 | 283 | 247 | 132 | 0 | 0 | 0 | 827 |
| 1973 | 0 | 0 | 4 | 22 | 34 | 256 | 304 | 305 | 181 | 22 | 2 | 0 | 1130 |
| 1974 | 0 | 0 | 14 | 43 | 99 | 118 | 292 | 275 | 62 | 6 | 1 | 0 | 910 |
| 1975 | 0 | 0 | 0 | 7 | 99 | 212 | 291 | 372 | 82 | 7 | 4 | 0 | 1074 |
| 1976 | 0 | 1 | 17 | 58 | 54 | 218 | 238 | 175 | 39 | 1 | 0 | 0 | 801 |
| 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 |

SNOWFALL (inches) 1998 CHARLESTON, WV (CRW)

| YEAR | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|----------------|-----|-----|-----|-----|------|------|------|------|------|------|-----|-----|-------|
| 1969-70 | 0.0 | 0.0 | 0.0 | 0.0 | 4.3 | 9.5 | 12.6 | 14.2 | 2.9 | T | 0.0 | 0.0 | 43.5 |
| 1970-71 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 10.9 | 11.6 | 10.5 | 11.7 | T | 0.0 | 0.0 | 44.9 |
| 1971-72 | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 | 0.8 | 4.0 | 9.8 | 3.5 | T | 0.0 | 0.0 | 22.3 |
| 1972-73 | 0.0 | 0.0 | 0.0 | 0.9 | 6.9 | 1.4 | 3.4 | 2.9 | 4.8 | 0.9 | 0.0 | 0.0 | 21.2 |
| 1973-74 | 0.0 | 0.0 | 0.0 | 0.0 | T | 6.5 | 0.3 | 13.0 | 0.9 | 1.2 | 0.0 | 0.0 | 21.9 |
| 1974-75 | 0.0 | 0.0 | 0.0 | 0.6 | 2.7 | 8.3 | 18.1 | 2.4 | 8.1 | 0.1 | 0.0 | 0.0 | 40.3 |
| 1975-76 | 0.0 | 0.0 | 0.0 | 0.0 | T | 4.0 | 14.3 | 2.6 | 5.4 | 0.0 | 0.0 | 0.0 | 26.3 |
| 1976-77 | 0.0 | 0.0 | 0.0 | T | 4.7 | 7.4 | 22.2 | 11.1 | 1.0 | 1.5 | 0.0 | 0.0 | 47.9 |
| 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- | | | | | | | | | | | | | |
| POR= 49 YRS | T | T | T | 0.1 | 2.4 | 5.2 | 11.1 | 8.7 | 5.4 | 0.9 | T | T | 33.8 |

WBAN : 13866

REFERENCE NOTES:

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|---|---|
| <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 (1961 - 1990). 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 EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p> |
|---|---|

1998
CHARLESTON,
WEST VIRGINIA (CRW)

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, WEST VIRGINIA

| LOCATION | OCCUPIED FROM | OCCUPIED TO | AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION | LATITUDE NORTH | LONGITUDE WEST | ELEVATION ABOVE | | | | | | | | | | REMARKS | |
|--|---------------|-------------|---|----------------|----------------|-----------------|--------|------|--------|-------|-------|------|------|------|--------|--|-----------|
| | | | | | | SEA LEVEL | GROUND | | | | | | | | | | AUTOMATED |
| | | | | | | | WIND | TEMP | PRECIP | MOIST | SUNSH | RAIN | WIND | TEMP | PRECIP | | |
| COOPERATIVE - - NOTE: For period 1855 through March 18, 1905 refer to previous editions. | | | | | | | | | | | | | | | | | |
| Quarrier Street Observer Mary E. Hewes | 3/19/15 | 5/31/15 | | | | | | | | | | | | | | | |
| Roof Federal Building 1/4 mile West of P. O. | 6/1/15 | 9/25/24 | | 38° 21' | 81° 38' | 600 | | 70 | | | | | | | | | |
| No. 1 Brooks Hollow US Corps of Engineers Malden Road | 9/26/24 | 9/30/33 | 3.25 mi. SE | 38° 20' | 81° 35' | 600 | | *4 | | | | | | | | *Heights estimated. | |
| 1001 Virginia Street | 10/1/33 | 12/31/33 | 2.88 mi. NW | 38° 21' | 81° 38' | 602 | | *4 | | | | | | | | | |
| Dam No. 6 South Charleston | 2/19/34 | 8/31/34 | 3.75 mi. SW | 38° 22' | 81° 42' | 604 | | *4 | | | | | | | | | |
| Charleston Daily Mail 1/4 mile West of P. O. | 8/16/34 | 6/1943 | 3.88 mi. NNE | 38° 21' | 81° 38' | 600 | | 70 | | | | | | | | No record from April 1942 through April 1943. | |
| 8 Woodward Court | 7/1943 | 5/27/44 | 1.25 mi. NNW | 38° 21' | 81° 38' | 650 | | *4 | | | | | | | | | |
| 269 Slack Street | 11/22/44 | Present | 1.75 mi. ENE | 38° 21' | 81° 38' | 615 | | 22 | | | | | | | | | |
| AIRPORT Terminal Building Kanawha Airport 2.5 miles NE of P. O. | 11/29/47 | 9/13/50 | NA | 38° 22' | 81° 36' | 950 | 26 | 4 | 4 | | | | | | | Official records from Airport data after 12/7/47. | |
| Terminal Building Kanawha Airport | 9/13/50 | 5/16/79 | 100 feet E | 38° 22' | 81° 36' | 950 | 80 | 61 | 61 | NA | i3 | 5 | 59 | g4 | NA | a - Effective 3/15/51. b - Minor move 6/2/54. c - Moved to field site 6/2/54. d - Removed 6/2/54. e - Moved to field site 11/30/54. f - Moved to field site 6/22/55. g - Telepsychrometer (5') 6/2/54-12/7/60. Hygro. comm. 1375' NE of tele. site 12/7/60. h - Effective 12/7/60. i - Installed 12/1/61. j - Removed 11/24/62. k - Added 9/8/64. m - Moved 50' E 6/8/72. | |
| NWS Building Kanawha Airport+ | 5/16/79 | Present | app. 0.7 mi. SSE | 38° 22' | 81° 36' | 939 | n32 | 4 | 4 | NA | 3 | 4 | 3 | n4 | NA | n - Not moved 5/16/79. p - Type change 3/17/86. q - Move from field to NWS Bldg 8/3/89. s ASOS commissioned 10/1/94. | |
| Yeager Airport (eff. Aug. 1986) | | | | | | | q36 | | | | | | p4 | q4 | | | |

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