

Station ID: 94822

RUN ID: ROCKFORD/GREATER ROCKFORD ARP

Year: 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981

Date Range: Jan 1 - Jan 31

Time Range: Midnight - 11 PM

Frequency Distribution  
(Count)

Wind Direction (Blowing From) / Wind Speed (Knots)

|       | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | > 21 | Total       |
|-------|-------|-------|--------|---------|---------|------|-------------|
| N     | 19    | 133   | 290    | 327     | 38      | 7    | <b>814</b>  |
| NNE   | 15    | 73    | 232    | 175     | 30      | 1    | <b>526</b>  |
| NE    | 21    | 97    | 167    | 109     | 19      | 1    | <b>414</b>  |
| ENE   | 25    | 126   | 164    | 116     | 35      | 4    | <b>470</b>  |
| E     | 23    | 86    | 108    | 101     | 22      | 1    | <b>341</b>  |
| ESE   | 22    | 63    | 94     | 95      | 11      | 1    | <b>286</b>  |
| SE    | 37    | 160   | 183    | 162     | 17      | 1    | <b>560</b>  |
| SSE   | 65    | 271   | 264    | 207     | 30      | 3    | <b>840</b>  |
| S     | 109   | 649   | 732    | 599     | 100     | 9    | <b>2198</b> |
| SSW   | 51    | 287   | 416    | 406     | 50      | 5    | <b>1215</b> |
| SW    | 37    | 213   | 358    | 311     | 40      | 9    | <b>968</b>  |
| WSW   | 19    | 184   | 323    | 347     | 67      | 39   | <b>979</b>  |
| W     | 14    | 165   | 396    | 476     | 160     | 57   | <b>1268</b> |
| WNW   | 30    | 269   | 772    | 992     | 258     | 62   | <b>2383</b> |
| NW    | 33    | 319   | 589    | 547     | 116     | 18   | <b>1622</b> |
| NNW   | 18    | 173   | 376    | 276     | 49      | 7    | <b>899</b>  |
| Total | 538   | 3268  | 5464   | 5246    | 1042    | 225  |             |

Frequency of Calm Winds : 585

Average Wind Speed : 10.03 Knots

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Year: 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981

Date Range: Jan 1 - Jan 31

Time Range: Midnight - 11 PM

Frequency Distribution  
(Normalized)

Wind Direction (Blowing From) / Wind Speed (Knots)

|       | 1 - 3    | 4 - 6    | 7 - 10   | 11 - 16  | 17 - 21  | > 21     | Total    |
|-------|----------|----------|----------|----------|----------|----------|----------|
| N     | 0.001161 | 0.008126 | 0.017717 | 0.019978 | 0.002322 | 0.000428 | 0.049731 |
| NNE   | 0.000916 | 0.004460 | 0.014174 | 0.010692 | 0.001833 | 0.000061 | 0.032136 |
| NE    | 0.001283 | 0.005926 | 0.010203 | 0.006659 | 0.001161 | 0.000061 | 0.025293 |
| ENE   | 0.001527 | 0.007698 | 0.010020 | 0.007087 | 0.002138 | 0.000244 | 0.028715 |
| E     | 0.001405 | 0.005254 | 0.006598 | 0.006171 | 0.001344 | 0.000061 | 0.020833 |
| ESE   | 0.001344 | 0.003849 | 0.005743 | 0.005804 | 0.000672 | 0.000061 | 0.017473 |
| SE    | 0.002261 | 0.009775 | 0.011180 | 0.009897 | 0.001039 | 0.000061 | 0.034213 |
| SSE   | 0.003971 | 0.016557 | 0.016129 | 0.012647 | 0.001833 | 0.000183 | 0.051320 |
| S     | 0.006659 | 0.039651 | 0.044721 | 0.036596 | 0.006109 | 0.000550 | 0.134286 |
| SSW   | 0.003116 | 0.017534 | 0.025415 | 0.024804 | 0.003055 | 0.000305 | 0.074230 |
| SW    | 0.002261 | 0.013013 | 0.021872 | 0.019000 | 0.002444 | 0.000550 | 0.059140 |
| WSW   | 0.001161 | 0.011241 | 0.019734 | 0.021200 | 0.004093 | 0.002383 | 0.059812 |
| W     | 0.000855 | 0.010081 | 0.024194 | 0.029081 | 0.009775 | 0.003482 | 0.077468 |
| WNW   | 0.001833 | 0.016435 | 0.047165 | 0.060606 | 0.015762 | 0.003788 | 0.145589 |
| NW    | 0.002016 | 0.019489 | 0.035985 | 0.033419 | 0.007087 | 0.001100 | 0.099096 |
| NNW   | 0.001100 | 0.010569 | 0.022972 | 0.016862 | 0.002994 | 0.000428 | 0.054924 |
| Total | 0.032869 | 0.199658 | 0.333822 | 0.320503 | 0.063661 | 0.013746 |          |

Frequency of Calm Winds : 3.57%

Average Wind Speed : 10.03 Knots