

1998

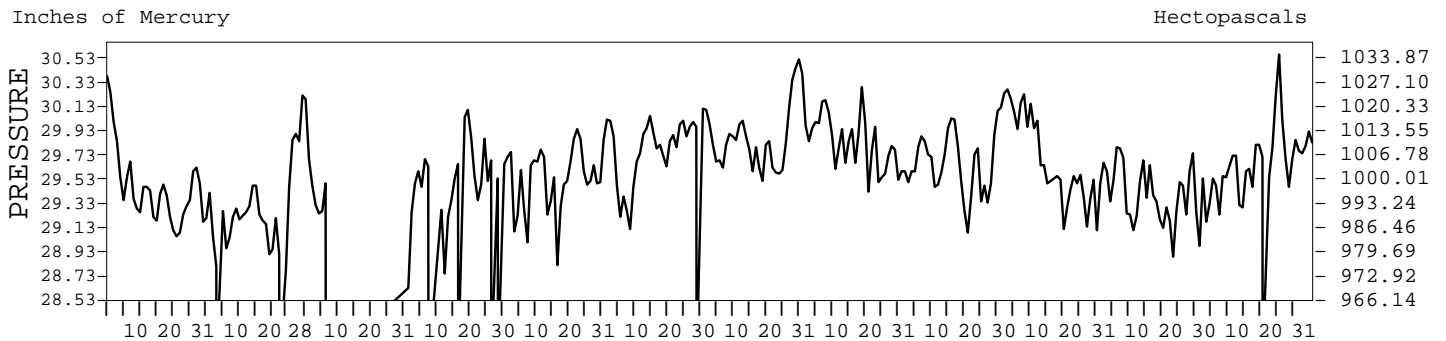
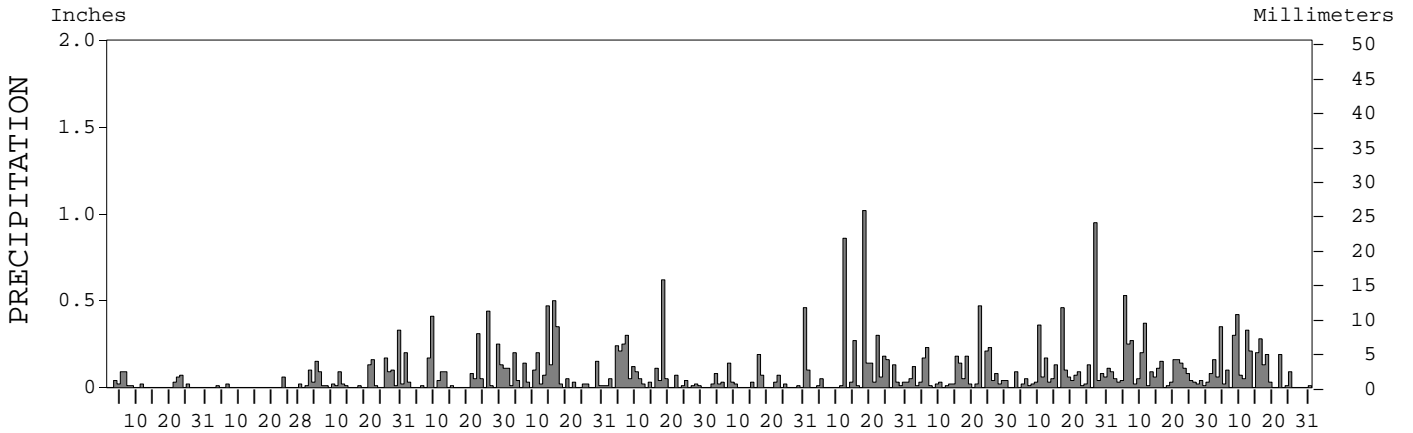
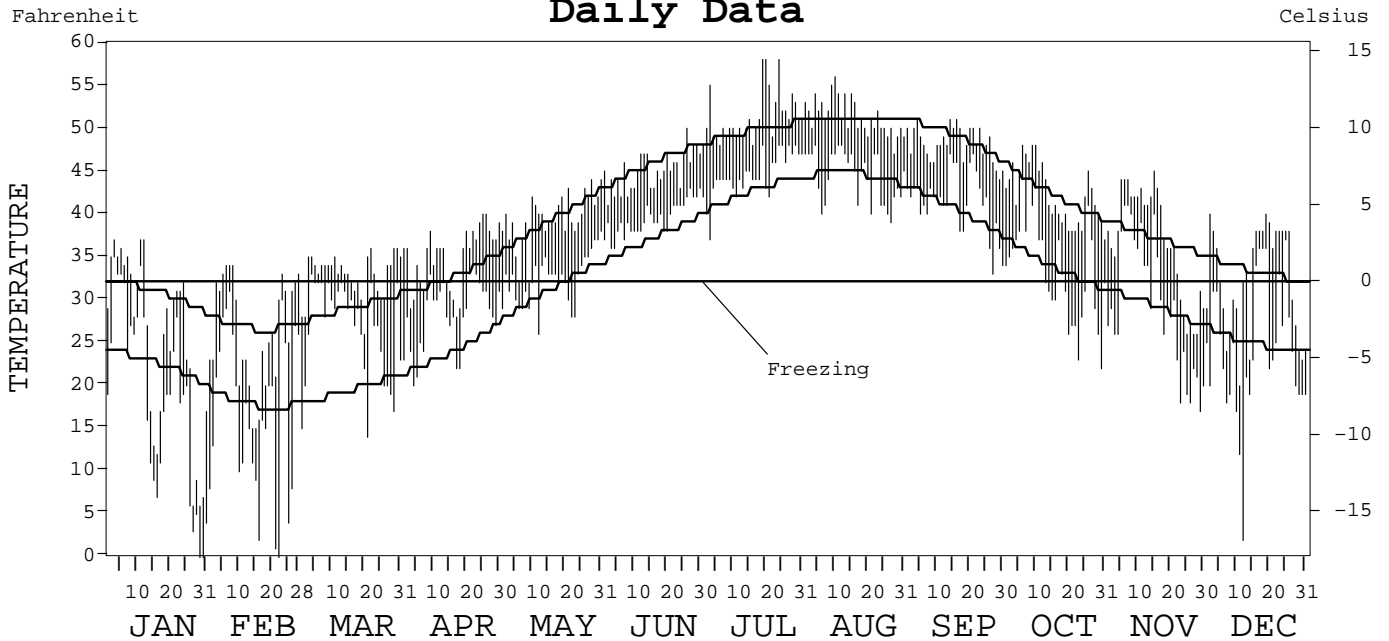
LOCAL CLIMATOLOGICAL DATA  
ANNUAL SUMMARY WITH COMPARATIVE DATA



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ST. PAUL ISLAND,  
ALASKA (SNP)

Daily Data



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 ASHEVILLE, NORTH CAROLINA

# METEOROLOGICAL DATA FOR 1998

## ST. PAUL ISLAND, AK (SNP)

LATITUDE: 57° 09' 48" N      LONGITUDE: 170° 13' 12" W      ELEVATION (FT): GRND: 22      BARO: 28      TIME ZONE: ALASKA (UTC+ 9)      WBAN: 25713

|                      | ELEMENT                       | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC    | YEAR      |   |
|----------------------|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-----------|---|
| TEMPERATURE °F       | MEAN DAILY MAXIMUM            | 25.4  | 26.3  | 32.8  | 35.0  | 39.5  | 45.0  | 51.3  | 51.3  | 48.2  | 42.3  | 36.7  | 32.4   | 38.9      |   |
|                      | HIGHEST DAILY MAXIMUM         | 37    | 34    | 36    | 40    | 44    | 50    | 58    | 56    | 51    | 48    | 45    | 40     | 58        |   |
|                      | DATE OF OCCURRENCE            | 03    | 08+   | 30+   | 26+   | 31+   | 26    | 24+   | 10    | 16+   | 10+   | 15    | 19+    | JUL 24+   |   |
|                      | MEAN DAILY MINIMUM            | 18.7  | 16.7  | 26.5  | 28.1  | 32.3  | 39.4  | 44.5  | 44.4  | 41.4  | 33.5  | 29.2  | 24.2   | 31.6      |   |
|                      | LOWEST DAILY MINIMUM          | 0     | 0     | 14    | 20    | 26    | 36    | 37    | 39    | 33    | 22    | 17    | 2      | 0         |   |
|                      | DATE OF OCCURRENCE            | 30+   | 22    | 21    | 04    | 12    | 04+   | 03    | 27    | 27    | 30    | 29    | 12     | FEB 22    |   |
|                      | AVERAGE DRY BULB              | 22.1  | 21.5  | 29.7  | 31.6  | 35.9  | 42.2  | 47.9  | 47.9  | 44.8  | 37.9  | 33.0  | 28.3   | 35.2      |   |
|                      | MEAN WET BULB                 |       |       |       |       |       |       | 46.7  | 46.7  | 43.2  | 36.1  | 32.4  |        |           |   |
|                      | MEAN DEW POINT                |       |       |       |       |       |       | 45.8  | 45.4  | 41.1  | 32.8  | 30.0  |        |           |   |
|                      | NUMBER OF DAYS WITH:          |       |       |       |       |       |       |       |       |       |       |       |        |           |   |
|                      | MAXIMUM ≥ 70°                 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0         | 0 |
|                      | MAXIMUM ≤ 32°                 | 22    | 22    | 10    | 9     | 2     | 0     | 0     | 0     | 0     | 0     | 8     | 15     | 88        |   |
| MINIMUM ≤ 32°        | 27                            | 28    | 30    | 26    | 14    | 0     | 0     | 0     | 0     | 15    | 19    | 25    | 184    |           |   |
| MINIMUM ≤ 0°         | 2                             | 1     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 3      |           |   |
| H/C                  | HEATING DEGREE DAYS           | 1324  | 1210  | 1092  | 996   | 896   | 676   | 523   | 523   | 599   | 834   | 952   | 1131   | 10756     |   |
|                      | COOLING DEGREE DAYS           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0         |   |
| RH                   | MEAN (PERCENT)                | 87    | 88    | 92    | 86    | 89    | 94    | 95    | 91    | 87    | 81    | 87    | 85     | 88        |   |
|                      | HOUR 03 LST                   | 87    | 88    | 91    | 87    | 91    | 97    | 97    | 95    | 88    | 82    | 87    | 86     | 90        |   |
|                      | HOUR 09 LST                   | 86    | 88    | 93    | 87    | 91    | 97    | 97    | 92    | 87    | 81    | 89    | 85     | 89        |   |
|                      | HOUR 15 LST                   | 86    | 86    | 90    | 84    | 85    | 92    | 91    | 87    | 84    | 78    | 87    | 84     | 86        |   |
|                      | HOUR 21 LST                   | 87    | 89    | 94    | 86    | 89    | 94    | 95    | 92    | 88    | 83    | 86    | 87     | 89        |   |
| S                    | PERCENT POSSIBLE SUNSHINE     |       |       |       |       |       |       |       |       |       |       |       |        |           |   |
| W/O                  | NUMBER OF DAYS WITH:          |       |       |       |       |       |       |       |       |       |       |       |        |           |   |
|                      | HEAVY FOG (VISBY ≤ 1/4 MI)    | 6     | 5     | 14    | 7     | 6     | 10    | 12    | 6     | 1     | 2     | 5     | 7      | 81        |   |
|                      | THUNDERSTORMS                 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0         |   |
| 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.)     | 29.46 |       |       |       | 29.54 |       | 29.88 | 29.82 | 29.71 | 29.64 | 29.38 |        |           |   |
|                      | MEAN SEA-LEVEL PRESS. (IN.)   | 29.49 |       |       |       | 29.57 |       | 29.91 | 29.85 | 29.74 | 29.67 | 29.41 |        |           |   |
| WINDS                | RESULTANT SPEED (MPH)         | 10.5  |       |       |       | 1.3   |       | 1.1   | 8.5   | 4.7   | 5.2   | 0.8   |        |           |   |
|                      | RES. DIR. (TENS OF DEGS.)     | 04    |       |       |       | 22    |       | 28    | 26    | 28    | 29    | 12    |        |           |   |
|                      | MEAN SPEED (MPH)              | 16.1  | 13.8  |       | 19.1  | 14.3  | 11.9  | 10.8  | 14.5  | 15.8  | 14.8  | 17.2  | 18.6   |           |   |
|                      | PREVAIL. DIR. (TENS OF DEGS.) | 03    | 02    |       | 29    | 20    | 18    | 26    | 26    | 33    | 27    | 33    | 08     |           |   |
|                      | MAXIMUM 2-MINUTE WIND:        |       |       |       |       |       |       |       |       |       |       |       |        |           |   |
|                      | SPEED (MPH)                   | 47    | 47    | 55    | 49    | 41    | 30    | 28    | 40    | 39    | 43    | 52    | 56     | 56        |   |
|                      | DIR. (TENS OF DEGS.)          | 01    | 08    | 27    | 25    | 19    | 34    | 16    | 26    | 16    | 17    | 21    | 28     | 28        |   |
|                      | DATE OF OCCURRENCE            | 15    | 22    | 31    | 10+   | 17    | 07    | 31+   | 16    | 22    | 10    | 16    | 04     | DEC 04    |   |
|                      | MAXIMUM 5-SECOND WIND:        |       |       |       |       |       |       |       |       |       |       |       |        |           |   |
|                      | SPEED (MPH)                   | 53    | 54    | 64    | 62    | 51    | 34    | 33    | 49    | 49    | 51    | 62    | 69     | 69        |   |
| DIR. (TENS OF DEGS.) | 01                            | 08    | 27    | 21    | 19    | 34    | 15    | 26    | 16    | 16    | 21    | 28    | 28     |           |   |
| DATE OF OCCURRENCE   | 15                            | 22    | 31    | 09    | 17    | 07    | 31    | 16    | 22    | 10    | 16    | 04    | DEC 04 |           |   |
| PRECIPITATION        | WATER EQUIVALENT:             |       |       |       |       |       |       |       |       |       |       |       |        |           |   |
|                      | TOTAL (IN.)                   | 0.46  | 0.11  | 1.58  | 2.37  | 2.79  | 2.40  | 1.22  | 3.60  | 2.44  | 3.24  | 3.18  | 3.28   | 26.67     |   |
|                      | GREATEST 24-HOUR (IN.)        | 0.11  | 0.06  | 0.35  | 0.48  | 0.76  | 0.64  | 0.46  | 1.15  | 0.47  | 0.95  | 0.53  | 0.42   | 1.15      |   |
|                      | DATE OF OCCURRENCE            | 22-23 | 23-24 | 30-31 | 08-09 | 16-17 | 18-19 | 31    | 18-19 | 22    | 27-28 | 05    | 15-16+ | AUG 18-19 |   |
|                      | NUMBER OF DAYS WITH:          |       |       |       |       |       |       |       |       |       |       |       |        |           |   |
|                      | PRECIPITATION ≥ 0.01          | 11    | 4     | 22    | 17    | 23    | 22    | 15    | 21    | 26    | 26    | 29    | 21     | 237       |   |
| PRECIPITATION ≥ 0.10 | 0                             | 0     | 7     | 7     | 11    | 7     | 3     | 10    | 9     | 8     | 11    | 12    | 85     |           |   |
| PRECIPITATION ≥ 1.00 | 0                             | 0     | 0     | 0     | 0     | 0     | 0     | 1     | 0     | 0     | 0     | 0     | 1      |           |   |
| SNOWFALL             | SNOW, ICE PELLETS, HAIL:      |       |       |       |       |       |       |       |       |       |       |       |        |           |   |
|                      | TOTAL (IN.)                   |       |       |       |       |       |       |       | 0.0   | T     | 4.0   | 10.8  | 24.4   |           |   |
|                      | GREATEST 24-HOUR (IN.)        |       |       |       |       |       |       |       | 0.0   | T     | 1.6   | 1.6   | 7.2    |           |   |
|                      | DATE OF OCCURRENCE            |       |       |       |       |       |       |       |       | 29    | 21    | 22+   | 12     |           |   |
|                      | MAXIMUM SNOW DEPTH (IN.)      |       |       |       |       |       |       |       | 0     | 0     | 1     | 6     | 26     |           |   |
|                      | DATE OF OCCURRENCE            |       |       |       |       |       |       |       |       |       | 24+   | 30    | 13     |           |   |
| NUMBER OF DAYS WITH: |                               |       |       |       |       |       |       |       |       |       |       |       |        |           |   |
| SNOWFALL ≥ 1.0       |                               |       |       |       |       |       |       |       | 0     | 0     | 1     | 5     | 6      |           |   |

# NORMALS, MEANS, AND EXTREMES

## ST. PAUL ISLAND, AK (SNP)

LATITUDE: 57° 09' 48" N      LONGITUDE: 170° 13' 12" W      ELEVATION (FT): GRND: 22      BARO: 28      TIME ZONE: ALASKA (UTC+ 9)      WBAN: 25713

| ELEMENT               |                             | POR  | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC      | YEAR     |
|-----------------------|-----------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----------|
| TEMPERATURE °F        | NORMAL DAILY MAXIMUM        | 30   | 30.7  | 26.9  | 28.9  | 32.7  | 39.3  | 45.8  | 49.6  | 51.0  | 48.8  | 42.0  | 37.0  | 33.2     | 38.8     |
|                       | MEAN DAILY MAXIMUM          | 50   | 30.3  | 27.1  | 29.1  | 32.5  | 39.4  | 45.8  | 49.9  | 51.2  | 48.7  | 42.1  | 37.2  | 32.8     | 38.8     |
|                       | HIGHEST DAILY MAXIMUM       | 81   | 48    | 44    | 50    | 49    | 59    | 62    | 63    | 66    | 61    | 54    | 50    | 52       | 66       |
|                       | YEAR OF OCCURRENCE          |      | 1916  | 1917  | 1980  | 1993  | 1997  | 1926  | 1992  | 1987  | 1979  | 1916  | 1915  | 1936     | AUG 1987 |
|                       | MEAN OF EXTREME MAXS.       | 50   | 39.0  | 37.3  | 37.8  | 40.2  | 46.5  | 52.6  | 56.5  | 56.2  | 53.2  | 48.3  | 43.2  | 40.3     | 45.9     |
|                       | NORMAL DAILY MINIMUM        | 30   | 22.4  | 17.9  | 19.4  | 23.9  | 31.2  | 37.1  | 42.5  | 44.4  | 40.3  | 33.6  | 28.9  | 24.8     | 30.5     |
|                       | MEAN DAILY MINIMUM          | 50   | 22.0  | 18.3  | 19.6  | 23.9  | 31.3  | 37.1  | 42.5  | 44.6  | 40.5  | 33.8  | 29.2  | 24.7     | 30.6     |
|                       | LOWEST DAILY MINIMUM        | 81   | -26   | -16   | -19   | -8    | 8     | 16    | 28    | 29    | 22    | 12    | 4     | -5       | -26      |
|                       | YEAR OF OCCURRENCE          |      | 1919  | 1991  | 1971  | 1976  | 1971  | 1985  | 1961  | 1981  | 1992  | 1983  | 1988  | 1916     | JAN 1919 |
|                       | MEAN OF EXTREME MINS.       | 50   | 4.3   | 0.4   | 1.4   | 8.9   | 22.7  | 29.4  | 35.7  | 36.9  | 29.7  | 23.3  | 16.1  | 9.2      | 18.2     |
|                       | NORMAL DRY BULB             | 30   | 26.6  | 22.4  | 24.2  | 28.3  | 35.2  | 41.5  | 46.1  | 47.7  | 44.6  | 37.8  | 33.0  | 29.0     | 34.7     |
|                       | MEAN DRY BULB               | 50   | 26.2  | 22.7  | 24.3  | 28.3  | 35.3  | 41.4  | 46.1  | 48.0  | 44.6  | 37.9  | 33.2  | 28.8     | 34.7     |
|                       | MEAN WET BULB               | 12   | 22.6  | 21.0  | 21.4  | 24.8  | 31.7  | 37.4  | 46.0  | 47.7  | 43.9  | 37.1  | 32.0  | 29.1     | 32.9     |
|                       | MEAN DEW POINT              | 12   | 19.7  | 18.2  | 18.9  | 22.3  | 32.2  | 38.9  | 45.0  | 46.8  | 41.8  | 34.0  | 28.5  | 26.4     | 31.1     |
|                       | NORMAL NO. DAYS WITH:       |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
| MAXIMUM ≥ 70°         | 30                          | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0      |          |
| MAXIMUM ≤ 32°         | 30                          | 14.5 | 16.1  | 17.2  | 11.9  | 2.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.8   | 5.1   | 11.1  | 79.1     |          |
| MINIMUM ≤ 32°         | 30                          | 25.0 | 25.7  | 28.5  | 25.7  | 17.5  | 4.1   | 0.3   | 0.2   | 2.7   | 12.9  | 19.4  | 23.9  | 185.9    |          |
| MINIMUM ≤ 0°          | 30                          | 0.9  | 2.6   | 2.0   | 0.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | *     | 5.9      |          |
| H/C                   | NORMAL HEATING DEG. DAYS    | 30   | 1190  | 1193  | 1265  | 1101  | 924   | 705   | 586   | 536   | 612   | 843   | 960   | 1116     | 11031    |
|                       | NORMAL COOLING DEG. DAYS    | 30   | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0        | 0        |
| RH                    | NORMAL (PERCENT)            | 30   | 85    | 85    | 86    | 85    | 88    | 90    | 94    | 94    | 89    | 83    | 83    | 83       | 87       |
|                       | HOUR 03 LST                 | 30   | 84    | 84    | 86    | 86    | 90    | 94    | 96    | 96    | 91    | 84    | 82    | 83       | 88       |
|                       | HOUR 09 LST                 | 30   | 84    | 85    | 86    | 86    | 90    | 92    | 96    | 95    | 91    | 84    | 82    | 83       | 88       |
|                       | HOUR 15 LST                 | 30   | 83    | 84    | 83    | 82    | 83    | 84    | 89    | 90    | 83    | 78    | 81    | 82       | 84       |
|                       | HOUR 21 LST                 | 30   | 84    | 86    | 86    | 86    | 88    | 89    | 93    | 94    | 90    | 84    | 83    | 83       | 87       |
| S                     | PERCENT POSSIBLE SUNSHINE   |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
| W/O                   | MEAN NO. DAYS WITH:         |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
|                       | HEAVY FOG (VISBY ≤ 1/4 MI)  | 52   | 2.1   | 2.8   | 3.3   | 3.4   | 7.1   | 9.6   | 12.5  | 10.3  | 3.6   | 0.7   | 0.9   | 1.2      | 57.5     |
|                       | THUNDERSTORMS               | 52   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0      |          |
| CLOUDINESS            | MEAN:                       |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
|                       | SUNRISE-SUNSET (OKTAS)      | 62   | 6.6   | 6.4   | 6.3   | 6.6   | 7.1   | 7.3   | 7.5   | 7.4   | 7.0   | 6.8   | 6.7   | 6.9      | 6.9      |
|                       | MIDNIGHT-MIDNIGHT (OKTAS)   | 24   | 6.3   | 6.1   | 6.1   | 6.5   | 7.0   | 7.3   | 7.7   | 7.6   | 7.0   | 6.8   | 6.7   | 6.8      | 6.8      |
|                       | MEAN NO. DAYS WITH:         |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
| CLEAR                 | 66                          | 2.3  | 2.6   | 3.2   | 2.2   | 1.1   | 1.1   | 0.6   | 0.7   | 0.7   | 0.7   | 1.2   | 1.5   | 17.9     |          |
| PARTLY CLOUDY         | 66                          | 5.6  | 5.9   | 7.2   | 5.8   | 3.8   | 3.0   | 2.2   | 2.6   | 5.3   | 7.2   | 6.3   | 5.3   | 60.2     |          |
| CLOUDY                | 66                          | 23.1 | 19.8  | 20.6  | 22.0  | 26.1  | 25.8  | 27.7  | 27.2  | 23.6  | 22.7  | 22.1  | 23.8  | 284.5    |          |
| PR                    | MEAN STATION PRESSURE (IN)  | 12   | 29.51 | 29.67 | 29.68 | 29.73 | 29.72 | 29.85 | 29.91 | 29.82 | 29.67 | 29.69 | 29.58 | 29.41    | 29.69    |
|                       | MEAN SEA-LEVEL PRES. (IN)   | 12   | 29.53 | 29.70 | 29.72 | 29.81 | 29.77 | 29.84 | 29.94 | 29.86 | 29.71 | 29.73 | 29.63 | 29.46    | 29.73    |
| WINDS                 | MEAN SPEED (MPH)            | 15   | 18.7  | 18.9  | 18.2  | 16.4  | 14.7  | 13.4  | 11.7  | 13.5  | 15.1  | 16.8  | 18.3  | 19.4     | 16.3     |
|                       | PREVAIL. DIR (TENS OF DEGS) | 12   | 02    | 02    | 02    | 36    | 36    | 05    | 12    | 23    | 33    | 36    | 31    | 02       | 36       |
|                       | MAXIMUM 2-MINUTE:           |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
|                       | SPEED (MPH)                 | 2    | 61    | 47    | 55    | 49    | 45    | 30    | 29    | 40    | 43    | 43    | 52    | 56       | 61       |
|                       | DIR. (TENS OF DEGS)         |      | 05    | 08    | 27    | 25    | 20    | 34    | 34    | 26    | 10    | 17    | 21    | 28       | 05       |
|                       | YEAR OF OCCURRENCE          |      | 1997  | 1998  | 1998  | 1998  | 1997  | 1998  | 1997  | 1998  | 1997  | 1998  | 1998  | 1998     | JAN 1997 |
|                       | MAXIMUM 5-SECOND:           |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
| SPEED (MPH)           | 2                           | 69   | 54    | 64    | 62    | 54    | 34    | 36    | 49    | 49    | 51    | 62    | 69    | 69       |          |
| DIR. (TENS OF DEGS)   |                             | 05   | 08    | 27    | 21    | 19    | 34    | 33    | 26    | 16    | 16    | 21    | 28    | 28       |          |
| YEAR OF OCCURRENCE    |                             | 1997 | 1998  | 1998  | 1998  | 1997  | 1998  | 1997  | 1998  | 1998  | 1998  | 1998  | 1998  | DEC 1998 |          |
| PRECIPITATION         | NORMAL (IN)                 | 30   | 1.85  | 1.33  | 1.22  | 1.34  | 1.28  | 1.23  | 1.90  | 2.75  | 2.59  | 2.81  | 2.80  | 2.22     | 23.32    |
|                       | MAXIMUM MONTHLY (IN)        | 76   | 8.26  | 5.69  | 3.28  | 3.21  | 3.11  | 3.59  | 5.85  | 9.32  | 6.02  | 6.21  | 5.40  | 4.18     | 9.32     |
|                       | YEAR OF OCCURRENCE          |      | 1997  | 1964  | 1973  | 1979  | 1931  | 1958  | 1950  | 1953  | 1924  | 1987  | 1993  | 1949     | AUG 1953 |
|                       | MINIMUM MONTHLY (IN)        | 76   | 0.25  | 0.02  | 0.08  | 0.08  | 0.21  | 0.01  | 0.32  | 0.17  | 0.62  | 0.96  | 0.67  | 0.08     | 0.01     |
|                       | YEAR OF OCCURRENCE          |      | 1918  | 1984  | 1960  | 1992  | 1948  | 1995  | 1931  | 1977  | 1977  | 1977  | 1939  | 1933     | JUN 1995 |
|                       | MAXIMUM IN 24 HOURS (IN)    | 76   | 7.59  | 1.51  | 1.26  | 1.15  | 1.27  | 1.48  | 1.92  | 2.00  | 1.74  | 1.93  | 1.76  | 1.15     | 7.59     |
|                       | YEAR OF OCCURRENCE          |      | 1997  | 1932  | 1973  | 1995  | 1931  | 1949  | 1950  | 1984  | 1993  | 1949  | 1925  | 1930     | JAN 1997 |
|                       | NORMAL NO. DAYS WITH:       |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
| PRECIPITATION ≥ 0.01  | 30                          | 19.7 | 15.4  | 17.2  | 16.4  | 15.5  | 13.2  | 15.6  | 17.7  | 19.7  | 22.6  | 22.8  | 21.4  | 217.2    |          |
| PRECIPITATION ≥ 1.00  | 30                          | *    | *     | *     | *     | 0.0   | 0.0   | 0.1   | 0.2   | 0.2   | 0.1   | 0.2   | *     | 0.8      |          |
| SNOWFALL              | NORMAL (IN)                 | 30   | 11.3  | 10.5  | 9.9   | 7.0   | 2.4   | 0.1   | 0.0   | 0.0   | 0.1   | 3.3   | 8.2   | 9.1      | 61.9     |
|                       | MAXIMUM MONTHLY (IN)        | 73   | 40.6  | 55.8  | 31.4  | 19.1  | 12.7  | 2.0   | 0.0   | 0.0   | 1.0   | 14.0  | 27.3  | 24.4     | 55.8     |
|                       | YEAR OF OCCURRENCE          |      | 1931  | 1964  | 1973  | 1928  | 1971  | 1927  |       |       | 1965  | 1948  | 1964  | 1998     | FEB 1964 |
|                       | MAXIMUM IN 24 HOURS (IN)    | 72   | 13.8  | 13.6  | 12.4  | 10.0  | 4.0   | 2.0   | 0.0   | 0.0   | 1.0   | 10.9  | 13.4  | 8.0      | 13.8     |
|                       | YEAR OF OCCURRENCE          |      | 1964  | 1964  | 1973  | 1966  | 1935  | 1927  |       |       | 1965  | 1978  | 1964  | 1930     | JAN 1964 |
|                       | MAXIMUM SNOW DEPTH (IN)     | 47   | 25    | 32    | 50    | 27    | 18    | 2     | 0     | 0     | 0     | 11    | 18    | 26       | 50       |
|                       | YEAR OF OCCURRENCE          |      | 1961  | 1964  | 1949  | 1964  | 1971  | 1975  |       |       |       | 1978  | 1964  | 1998     | MAR 1949 |
| NORMAL NO. DAYS WITH: |                             |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
| SNOWFALL ≥ 1.0        | 30                          | 3.4  | 3.4   | 3.1   | 2.0   | 0.5   | 0.*   | 0.0   | 0.0   | 0.*   | 0.7   | 2.5   | 3.0   | 18.6     |          |

PRECIPITATION (inches) 1998 ST. PAUL ISLAND, AK (SNP)

| YEAR           | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  | ANNUAL |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 1969           | 2.25 | 1.68 | 0.71 | 1.00 | 1.28 | 0.68 | 1.32 | 4.01 | 1.44 | 2.30 | 1.92 | 0.98 | 19.57  |
| 1970           | 0.88 | 0.96 | 1.24 | 1.36 | 0.76 | 1.45 | 1.91 | 1.52 | 2.24 | 3.01 | 2.34 | 3.63 | 21.30  |
| 1971           | 0.83 | 1.03 | 1.14 | 0.83 | 0.94 | 0.73 | 2.77 | 2.78 | 2.64 | 2.11 | 2.03 | 3.30 | 21.13  |
| 1972           | 1.45 | 0.80 | 1.22 | 1.83 | 0.98 | 1.80 | 1.28 | 1.69 | 3.21 | 3.52 | 2.50 | 1.44 | 21.72  |
| 1973           | 1.79 | 3.34 | 3.28 | 0.60 | 1.08 | 1.07 | 1.18 | 2.40 | 1.64 | 2.75 | 3.23 | 2.22 | 24.58  |
| 1974           | 2.11 | 1.33 | 0.75 | 0.88 | 1.26 | 1.42 | 2.40 | 3.29 | 1.39 | 1.42 | 1.63 | 1.55 | 19.43  |
| 1975           | 1.47 | 1.54 | 1.02 | 1.30 | 0.50 | 1.07 | 1.20 | 1.40 | 1.45 | 2.07 | 0.88 | 0.73 | 14.63  |
| 1976           | 0.74 | 0.80 | 0.74 | 1.22 | 1.48 | 0.90 | 1.58 | 1.50 | 1.44 | 1.57 | 0.94 | 0.76 | 13.67  |
| 1977           | 0.57 | 0.89 | 1.41 | 1.09 | 1.19 | 0.31 | 0.86 | 0.17 | 0.62 | 0.96 | 1.10 | 0.65 | 9.82   |
| 1978           | 0.61 | 0.47 | 0.53 | 0.92 | 0.74 | 1.33 | 2.52 | 2.72 | 1.87 | 4.45 | 2.10 | 1.95 | 20.21  |
| 1979           | 2.62 | 1.01 | 1.22 | 3.21 | 1.52 | 2.18 | 2.67 | 2.57 | 3.51 | 3.79 | 4.78 | 1.19 | 30.27  |
| 1980           | 1.13 | 0.37 | 0.99 | 0.76 | 0.83 | 3.05 | 1.20 | 3.78 | 2.82 | 2.85 | 2.06 | 0.84 | 20.68  |
| 1981           | 1.58 | 0.52 | 0.79 | 0.54 | 1.45 | 1.15 | 0.85 | 2.50 | 1.07 | 2.48 | 2.63 | 1.01 | 16.57  |
| 1982           | 0.95 | 0.38 | 1.47 | 0.65 | 1.40 | 1.08 | 1.82 | 1.64 | 2.31 | 1.99 | 3.01 | 2.17 | 18.87  |
| 1983           | 0.28 | 1.09 | 0.14 | 2.43 | 1.08 | 0.55 | 2.39 | 3.44 | 2.34 | 2.22 | 3.32 | 3.98 | 23.26  |
| 1984           | 1.22 | 0.02 | 0.31 | 0.48 | 0.82 | 0.85 | 0.91 | 4.09 | 2.93 | 1.76 | 3.77 | 3.54 | 20.70  |
| 1985           | 2.86 | 0.84 | 1.56 | 1.23 | 2.04 | 1.91 | 1.04 | 2.27 | 3.75 | 4.22 | 4.56 | 2.41 | 28.69  |
| 1986           | 1.11 | 0.39 | 0.09 | 0.83 | 1.17 | 1.23 | 3.25 | 5.50 | 4.81 | 2.45 | 3.61 | 3.19 | 27.63  |
| 1987           | 3.36 | 1.99 | 2.02 | 1.53 | 1.47 | 2.94 | 3.13 | 3.46 | 4.69 | 6.21 | 1.24 | 3.28 | 35.32  |
| 1988           | 1.38 | 1.40 | 0.28 | 1.32 | 1.74 | 1.73 | 0.36 | 3.93 | 2.59 | 2.58 | 3.53 | 3.37 | 24.21  |
| 1989           | 2.12 | 2.56 | 0.53 | 2.33 | 1.91 | 0.95 | 2.00 | 1.81 | 3.61 | 2.94 | 3.92 | 1.77 | 26.45  |
| 1990           | 2.50 | 2.45 | 1.25 | 0.31 | 1.56 | 0.53 | 2.01 | 3.43 | 3.38 | 3.69 | 4.39 | 2.87 | 28.37  |
| 1991           | 1.45 | 1.16 | 2.88 | 0.22 | 1.00 | 1.10 | 2.02 | 3.99 | 4.95 | 2.47 | 1.60 | 2.17 | 25.01  |
| 1992           | 1.18 | 1.81 | 1.05 | 0.08 | 0.88 | 2.51 | 2.80 | 5.12 | 3.50 | 2.89 | 2.51 | 2.72 | 27.05  |
| 1993           | 2.28 | 1.68 | 1.27 | 0.89 | 1.52 | 0.86 | 2.05 | 3.31 | 4.92 | 3.12 | 5.40 | 0.97 | 28.27  |
| 1994           | 1.55 | 2.62 | 1.54 | 0.30 | 0.66 | 1.65 | 2.93 | 3.99 | 3.63 | 1.87 | 3.95 | 2.29 | 26.98  |
| 1995           | 0.74 | 1.59 | 0.48 | 2.54 | 0.68 | 0.01 | 0.93 | 1.91 | 2.05 | 3.12 | 1.33 | 1.08 | 16.46  |
| 1996           | 1.63 | 1.79 | 0.94 | 0.17 | 0.92 | 1.95 | 2.71 | 2.74 | 2.85 | 1.04 | 1.84 | 0.87 | 19.45  |
| 1997           | 8.26 | 0.75 | 0.34 | 0.34 | 1.77 | 1.02 | 1.94 | 3.24 | 2.21 | 1.32 | 4.04 | 0.82 | 26.05  |
| 1998           | 0.46 | 0.11 | 1.58 | 2.37 | 2.79 | 2.40 | 1.22 | 3.60 | 2.44 | 3.24 | 3.18 | 3.28 | 26.67  |
| POR=<br>81 YRS | 1.79 | 1.25 | 1.20 | 1.10 | 1.25 | 1.26 | 2.10 | 3.11 | 2.98 | 2.86 | 2.62 | 1.90 | 23.42  |

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AVERAGE TEMPERATURE (°F) 1998 ST. PAUL ISLAND, AK (SNP)

| YEAR           | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  | ANNUAL |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 1969           | 31.7 | 24.2 | 25.5 | 29.6 | 36.7 | 42.1 | 48.3 | 49.9 | 46.5 | 39.1 | 32.5 | 29.4 | 36.3   |
| 1970           | 19.5 | 26.3 | 25.3 | 26.4 | 34.2 | 41.2 | 45.0 | 45.5 | 43.9 | 38.8 | 36.9 | 29.2 | 34.4   |
| 1971           | 23.3 | 15.3 | 14.9 | 21.5 | 27.8 | 36.2 | 41.9 | 44.5 | 42.3 | 37.8 | 32.4 | 30.0 | 30.7   |
| 1972           | 25.9 | 14.6 | 10.9 | 25.0 | 32.8 | 37.7 | 42.5 | 45.9 | 44.0 | 37.8 | 33.2 | 30.0 | 31.7   |
| 1973           | 23.1 | 25.5 | 20.1 | 26.3 | 30.4 | 39.4 | 44.3 | 45.9 | 43.9 | 37.5 | 37.2 | 27.4 | 33.4   |
| 1974           | 26.4 | 14.9 | 25.9 | 25.0 | 35.3 | 39.4 | 45.4 | 47.3 | 44.8 | 36.2 | 29.6 | 21.6 | 32.7   |
| 1975           | 17.6 | 15.3 | 19.7 | 27.4 | 32.2 | 38.1 | 43.7 | 47.4 | 42.5 | 36.2 | 29.3 | 29.3 | 31.6   |
| 1976           | 22.0 | 9.0  | 12.8 | 17.3 | 30.7 | 39.9 | 45.1 | 47.6 | 43.2 | 37.8 | 31.3 | 23.6 | 30.0   |
| 1977           | 30.6 | 27.4 | 23.2 | 26.3 | 36.1 | 43.3 | 48.7 | 51.1 | 47.8 | 37.0 | 30.0 | 31.1 | 36.1   |
| 1978           | 33.6 | 27.4 | 25.5 | 34.9 | 38.9 | 44.2 | 46.5 | 48.7 | 47.5 | 39.2 | 38.0 | 32.1 | 38.0   |
| 1979           | 34.3 | 30.0 | 30.4 | 36.1 | 40.6 | 46.7 | 48.7 | 50.5 | 48.1 | 43.3 | 36.7 | 31.5 | 39.7   |
| 1980           | 27.2 | 23.7 | 31.6 | 30.9 | 38.1 | 44.5 | 47.5 | 46.5 | 44.2 | 37.1 | 33.9 | 29.9 | 36.3   |
| 1981           | 27.9 | 23.9 | 30.7 | 34.3 | 40.4 | 43.0 | 47.8 | 47.3 | 44.3 | 37.7 | 30.8 | 28.1 | 36.4   |
| 1982           | 26.4 | 27.6 | 29.5 | 28.9 | 35.2 | 41.4 | 44.2 | 48.4 | 42.8 | 38.3 | 34.8 | 29.6 | 35.6   |
| 1983           | 22.4 | 28.3 | 27.8 | 31.8 | 36.9 | 43.7 | 47.3 | 48.1 | 44.1 | 36.9 | 30.8 | 34.4 | 36.0   |
| 1984           | 26.8 | 9.9  | 24.7 | 26.0 | 33.5 | 43.3 | 46.2 | 48.9 | 46.1 | 39.0 | 34.5 | 32.8 | 34.3   |
| 1985           | 33.8 | 23.5 | 21.9 | 20.2 | 34.8 | 38.7 | 45.8 | 47.5 | 44.4 | 37.2 | 37.2 | 33.9 | 34.9   |
| 1986           | 22.1 | 25.7 | 20.4 | 27.9 | 35.9 | 42.5 | 47.3 | 47.8 | 46.5 | 39.1 | 35.2 | 31.7 | 35.2   |
| 1987           | 27.4 | 27.9 | 29.4 | 29.5 | 36.6 | 42.9 | 47.7 | 49.3 | 43.4 | 38.5 | 28.1 | 25.9 | 35.6   |
| 1988           | 27.3 | 24.2 | 17.8 | 25.8 | 35.1 | 42.2 | 47.7 | 48.7 | 44.9 | 39.2 | 29.5 | 27.5 | 34.2   |
| 1989           | 22.3 | 34.1 | 30.4 | 33.8 | 37.8 | 42.6 | 47.3 | 49.8 | 47.1 | 40.2 | 30.2 | 29.4 | 37.1   |
| 1990           | 27.0 | 19.6 | 26.3 | 30.6 | 37.7 | 43.3 | 47.8 | 48.9 | 44.1 | 38.2 | 33.5 | 31.9 | 35.7   |
| 1991           | 25.0 | 9.6  | 27.6 | 27.9 | 36.4 | 41.9 | 48.5 | 49.3 | 45.8 | 40.7 | 33.7 | 26.7 | 34.4   |
| 1992           | 24.6 | 25.1 | 20.7 | 27.8 | 33.5 | 42.4 | 45.8 | 47.7 | 42.2 | 37.3 | 30.9 | 27.0 | 33.8   |
| 1993           | 22.5 | 26.3 | 27.1 | 33.4 | 37.4 | 43.1 | 49.4 | 50.9 | 46.0 | 41.0 | 36.4 | 27.8 | 36.8   |
| 1994           | 26.7 | 29.4 | 17.6 | 25.7 | 33.9 | 42.1 | 47.7 | 48.3 | 44.6 | 37.2 | 32.5 | 28.2 | 34.5   |
| 1995           | 21.7 | 21.8 | 20.5 | 26.6 | 36.6 | 41.2 | 47.2 | 49.8 | 47.3 | 38.5 | 32.8 | 32.8 | 34.7   |
| 1996           | 30.6 | 26.5 | 33.0 | 31.7 | 39.6 | 45.1 | 48.4 | 50.3 | 45.1 | 39.6 | 36.2 | 31.4 | 38.1   |
| 1997           | 25.7 | 25.3 | 23.3 | 30.3 | 38.7 | 42.9 | 48.4 | 49.7 | 46.5 | 38.2 | 33.2 | 24.2 | 35.5   |
| 1998           | 22.1 | 21.5 | 29.7 | 31.6 | 35.9 | 42.2 | 47.9 | 47.9 | 44.8 | 37.9 | 33.0 | 28.3 | 35.2   |
| POR=<br>81 YRS | 25.7 | 22.9 | 24.3 | 28.6 | 35.1 | 41.4 | 45.9 | 47.7 | 44.7 | 38.3 | 33.2 | 28.6 | 34.7   |

HEATING DEGREE DAYS (base 65°F) 1998 ST. PAUL ISLAND, AK (SNP)

| YEAR    | JUL | AUG | SEP | OCT | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN | TOTAL |
|---------|-----|-----|-----|-----|------|------|------|------|------|------|------|-----|-------|
| 1969-70 | 512 | 459 | 548 | 798 | 967  | 1097 | 1404 | 1079 | 1224 | 1154 | 949  | 707 | 10898 |
| 1970-71 | 611 | 598 | 624 | 806 | 838  | 1104 | 1288 | 1388 | 1552 | 1300 | 1148 | 859 | 12116 |
| 1971-72 | 713 | 628 | 677 | 835 | 972  | 1079 | 1205 | 1458 | 1670 | 1193 | 993  | 813 | 12236 |
| 1972-73 | 691 | 585 | 625 | 840 | 947  | 1077 | 1292 | 1102 | 1385 | 1156 | 1064 | 760 | 11524 |
| 1973-74 | 634 | 586 | 625 | 848 | 827  | 1157 | 1188 | 1397 | 1204 | 1194 | 914  | 758 | 11332 |
| 1974-75 | 604 | 539 | 598 | 882 | 1053 | 1337 | 1462 | 1389 | 1399 | 1120 | 1013 | 799 | 12195 |
| 1975-76 | 653 | 539 | 670 | 886 | 1064 | 1102 | 1327 | 1622 | 1612 | 1422 | 1055 | 745 | 12697 |
| 1976-77 | 610 | 532 | 649 | 838 | 1006 | 1280 | 1059 | 1048 | 1291 | 1156 | 889  | 642 | 11000 |
| 1977-78 | 499 | 420 | 508 | 862 | 1043 | 1045 | 968  | 1049 | 1216 | 896  | 803  | 616 | 9925  |
| 1978-79 | 564 | 496 | 518 | 792 | 802  | 1011 | 946  | 976  | 1065 | 860  | 747  | 548 | 9325  |
| 1979-80 | 497 | 444 | 501 | 667 | 843  | 1030 | 1165 | 1190 | 1030 | 1016 | 823  | 608 | 9814  |
| 1980-81 | 532 | 568 | 617 | 861 | 924  | 1079 | 1142 | 1145 | 1057 | 916  | 757  | 651 | 10249 |
| 1981-82 | 527 | 541 | 613 | 839 | 1018 | 1138 | 1188 | 1044 | 1093 | 1074 | 915  | 702 | 10692 |
| 1982-83 | 638 | 507 | 661 | 819 | 900  | 1092 | 1313 | 1019 | 1147 | 988  | 868  | 632 | 10584 |
| 1983-84 | 541 | 519 | 620 | 862 | 1018 | 942  | 1178 | 1592 | 1245 | 1166 | 968  | 646 | 11297 |
| 1984-85 | 579 | 492 | 561 | 796 | 909  | 993  | 959  | 1154 | 1326 | 1338 | 926  | 783 | 10816 |
| 1985-86 | 589 | 537 | 612 | 852 | 824  | 957  | 1323 | 1093 | 1378 | 1104 | 895  | 670 | 10834 |
| 1986-87 | 543 | 527 | 546 | 796 | 885  | 1029 | 1160 | 1034 | 1098 | 1057 | 871  | 656 | 10202 |
| 1987-88 | 526 | 480 | 642 | 816 | 1097 | 1205 | 1160 | 1179 | 1454 | 1170 | 916  | 677 | 11322 |
| 1988-89 | 530 | 499 | 595 | 792 | 1059 | 1155 | 1319 | 859  | 1067 | 930  | 834  | 666 | 10305 |
| 1989-90 | 543 | 463 | 532 | 763 | 1037 | 1093 | 1172 | 1265 | 1193 | 1027 | 840  | 648 | 10576 |
| 1990-91 | 525 | 494 | 619 | 825 | 935  | 1023 | 1232 | 1548 | 1153 | 1105 | 880  | 685 | 11024 |
| 1991-92 | 505 | 483 | 570 | 746 | 935  | 1181 | 1243 | 1150 | 1367 | 1109 | 966  | 672 | 10927 |
| 1992-93 | 587 | 529 | 680 | 853 | 1014 | 1172 | 1309 | 1077 | 1170 | 945  | 849  | 648 | 10833 |
| 1993-94 | 477 | 431 | 564 | 737 | 850  | 1146 | 1181 | 990  | 1459 | 1171 | 958  | 681 | 10645 |
| 1994-95 | 530 | 510 | 607 | 855 | 967  | 1133 | 1335 | 1203 | 1370 | 1146 | 875  | 707 | 11238 |
| 1995-96 | 546 | 463 | 522 | 813 | 959  | 991  | 1061 | 1112 | 986  | 995  | 781  | 590 | 9819  |
| 1996-97 | 507 | 451 | 589 | 780 | 857  | 1034 | 1209 | 1104 | 1289 | 1035 | 808  | 654 | 10317 |
| 1997-98 | 511 | 464 | 546 | 827 | 948  | 1259 | 1324 | 1210 | 1092 | 996  | 896  | 676 | 10749 |
| 1998-   | 523 | 523 | 599 | 834 | 952  | 1131 |      |      |      |      |      |     |       |

WBAN : 25713

COOLING DEGREE DAYS (base 65°F) 1998 ST. PAUL ISLAND, AK (SNP)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| 1969 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0      |
| 1970 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0      |
| 1971 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0      |
| 1972 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0      |
| 1973 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0      |
| 1974 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0      |
| 1975 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0      |
| 1976 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0      |
| 1977 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0      |
| 1978 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0      |
| 1979 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0      |
| 1980 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0      |
| 1981 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0      |
| 1982 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0      |
| 1983 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0      |
| 1984 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0      |
| 1985 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0      |
| 1986 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0      |
| 1987 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0      |
| 1988 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0      |
| 1989 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0      |
| 1990 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0      |
| 1991 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0      |
| 1992 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0      |
| 1993 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0      |
| 1994 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0      |
| 1995 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0      |
| 1996 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0      |
| 1997 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0      |
| 1998 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0      |

SNOWFALL (inches) 1998 ST. PAUL ISLAND, AK (SNP)

| YEAR           | JUL | AUG | SEP | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN | TOTAL |
|----------------|-----|-----|-----|------|------|------|------|------|------|------|------|-----|-------|
| 1969-70        | 0.0 | 0.0 | 0.0 | 0.8  | 4.9  | 8.7  | 14.7 | 8.7  | 12.0 | 8.5  | 1.3  | 0.1 | 59.7  |
| 1970-71        | 0.0 | 0.0 | T   | 0.4  | 2.0  | 17.5 | 6.3  | 9.6  | 12.3 | 13.6 | 12.7 | T   | 74.4  |
| 1971-72        | 0.0 | 0.0 | 0.0 | 4.3  | 5.1  | 13.1 | 12.9 | 9.3  | 10.8 | 15.6 | 3.2  | T   | 74.3  |
| 1972-73        | 0.0 | 0.0 | 0.2 | 1.8  | 6.7  | 5.5  | 13.0 | 27.6 | 31.4 | 6.3  | 7.9  | 0.2 | 100.6 |
| 1973-74        | 0.0 | 0.0 | 0.0 | 3.8  | 3.9  | 12.4 | 7.7  | 11.0 | 5.6  | 8.9  | 2.2  | T   | 55.5  |
| 1974-75        | 0.0 | 0.0 | 0.0 | 2.2  | 4.6  | 15.7 | 14.4 | 11.4 | 10.1 | 5.6  | 4.5  | 1.2 | 69.7  |
| 1975-76        | 0.0 | 0.0 | 0.4 | 2.0  | 5.9  | 4.7  | 9.4  | 7.9  | 7.8  | 6.8  | 1.0  | 0.0 | 45.9  |
| 1976-77        | 0.0 | 0.0 | 0.0 | 2.9  | 7.1  | 10.3 | 2.1  | 7.1  | 16.0 | 5.6  | 1.4  | 0.0 | 52.5  |
| 1977-78        | 0.0 | 0.0 | 0.0 | 1.6  | 7.9  | 3.9  | 2.9  | 5.2  | 5.9  | 0.4  | T    | 0.0 | 27.8  |
| 1978-79        | 0.0 | 0.0 | 0.0 | 12.5 | 2.4  | 9.0  | 17.9 | 1.6  | 3.7  | 0.9  | 0.5  | 0.0 | 48.5  |
| 1979-80        | 0.0 | 0.0 | T   | T    | 14.6 | 8.7  | 8.5  | 5.0  | 12.1 | 9.6  | 1.7  | 0.0 | 60.2  |
| 1980-81        | 0.0 | 0.0 | T   | 2.6  | 6.1  | 6.1  | 10.5 | 5.5  | 7.2  | 2.0  | 1.3  | 0.0 | 41.3  |
| 1981-82        | 0.0 | 0.0 | 0.0 | 0.9  | 9.1  | 4.8  | 2.1  | 1.5  | 5.8  | 3.0  | T    | 0.0 | 27.2  |
| 1982-83        | 0.0 | 0.0 | T   | 0.2  | 4.0  | 10.7 | 2.9  | 8.4  | 1.2  | 5.3  | 0.2  | 0.0 | 32.9  |
| 1983-84        | 0.0 | 0.0 | T   | 4.8  | 7.4  | 1.7  | 6.5  | 0.2  | 3.0  | 3.0  | 3.3  | 0.0 | 29.9  |
| 1984-85        | 0.0 | 0.0 | 0.0 | 2.9  | 3.4  | 3.7  | 4.5  | 7.8  | 10.1 | 13.3 | 2.2  | 0.7 | 48.6  |
| 1985-86        | 0.0 | 0.0 | 0.0 | 1.7  | 2.5  | 3.7  | 12.6 | 3.2  | 1.1  | 4.8  | 1.9  | 0.0 | 31.5  |
| 1986-87        | 0.0 | 0.0 | 0.0 | T    | 3.6  | 4.9  | 13.5 | 16.1 | 13.2 | 3.3  | 2.4  | 0.0 | 57.0  |
| 1987-88        | 0.0 | 0.0 | T   | 0.9  | 10.3 | 18.6 | 6.5  | 7.0  | 4.9  | 11.7 | 1.9  | 0.0 | 61.8  |
| 1988-89        | 0.0 | 0.0 | 0.0 | 2.8  | 25.7 |      |      | 6.8  | 3.6  | 5.5  | 1.4  | 0.0 |       |
| 1989-90        | 0.0 | 0.0 | 0.0 | 0.7  | 18.2 | 10.6 | 23.4 | 25.1 | 16.6 | 2.9  | 0.1  | 0.0 | 97.6  |
| 1990-91        | 0.0 | 0.0 | 0.2 | 3.3  | 9.7  | 7.2  | 7.3  | 3.9  | 12.1 | 2.7  | 1.7  | 0.0 | 48.1  |
| 1991-92        | 0.0 | 0.0 | 0.0 | 0.8  | 4.3  | 19.0 | 13.1 | 7.8  | 15.2 | 1.5  | 0.5  | 0.0 | 62.2  |
| 1992-93        | 0.0 | 0.0 | T   | 2.0  | 10.6 | 6.0  | 10.0 | 16.7 | 6.3  | 4.6  | 0.7  | 0.0 | 56.9  |
| 1993-94        | 0.0 | 0.0 | T   | T    | 4.1  | 13.3 | 5.1  | 3.7  | 17.7 | 5.7  | 3.6  | 0.0 | 53.2  |
| 1994-95        | 0.0 | 0.0 | T   | T    | 8.9  | 6.4  | 10.0 | 15.1 | 4.6  | 9.9  | 0.3  | T   | 55.2  |
| 1995-96        | 0.0 | 0.0 | 0.0 | 0.5  | 4.3  | 2.4  | 7.5  | 9.7  | 3.6  | 0.8  | T    | T   | 28.8  |
| 1996-97        | 0.0 | 0.0 | T   | 0.1  | 5.5  | 10.4 |      |      |      |      |      |     |       |
| 1997-98        |     |     |     |      |      |      |      |      |      |      |      |     |       |
| 1998-          |     | 0.0 | T   | 4.0  | 10.8 | 24.4 |      |      |      |      |      |     |       |
| POR=<br>72 YRS | 0.0 | 0.0 | 0.1 | 2.5  | 6.6  | 9.5  | 11.4 | 9.5  | 9.0  | 5.5  | 2.0  | 0.1 | 56.2  |

WBAN : 25713

REFERENCE NOTES:

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| <p>PAGE 1:<br/>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:<br/>H/C INDICATES HEATING AND COOLING DEGREE DAYS.<br/>RH INDICATES RELATIVE HUMIDITY<br/>W/O INDICATES WEATHER AND OBSTRUCTIONS<br/>S INDICATES SUNSHINE.<br/>PR INDICATES PRESSURE.<br/>CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).</p> <p>GENERAL:<br/>T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE.<br/>+ INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES.<br/>BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA.<br/>NORMALS ARE 30-YEAR AVERAGES (1961 - 1990).<br/>ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM.<br/>PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH.<br/>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.<br/>WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED.<br/>0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05.<br/>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.<br/>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:<br/>CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS.<br/>WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED.<br/>WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH.<br/>RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION.<br/>AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2.<br/>SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN PRECIPITATION, INCLUDING HAIL.<br/>A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65° F.<br/>DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR.<br/>DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY.<br/>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> |
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1998  
ST. PAUL ISLAND,  
ALASKA (SNP)

St. Paul Island, one of the Pribilof group, is located in the central-southeast Bering Sea area. The climate is typically maritime, resulting in considerable cloudiness, heavy fog, high humidity, and rather well restricted daily temperature ranges. Humidities remain uniformly high from May to late September, and during the summer period there is almost continuous low cloudiness and occasional heavy fog. The differences between the high and low temperatures for the entire year are only slightly above 7 degrees, and the greatest monthly variation in March is slightly less than 12 degrees. Temperatures remain on the cool side even during the summer with extreme highs usually around the middle 50s. Although record low readings fall well below the zero mark, such extremely cold days are rather rare. There are only five days each winter with temperatures falling below the zero mark. The climatic environment makes the Pribilofs ideal for their numerous summer inhabitants, the Alaskan Fur Seals.

In spite of an environment of high humidities, precipitation on St. Paul Island is surprisingly light. The annual average of near 24 inches is slightly below the average for Alaska as a whole. April is generally the driest month, with a gradual increase of precipitation until a monthly total of over 3 inches is reached during August, September, and October. This is followed by a gradual decrease during the succeeding months until the return of April.

Frequent windy periods are characteristic of the island area throughout the year. Frequent storms occur from October to April, and these often are accompanied by gale-force winds to produce general blizzard conditions. Under the influence of prolonged north and northeasterly winds between January and April, the ice pack occasionally moves south to surround the island. During recent years, the southward limit of this movement has been between St. Paul and St. George Islands, some 40 miles to the southeast of St. Paul.

Thunderstorms are extremely rare on St. Paul Island.

