

Summary of Monthly Normals  
1991-2020

Current Location: Elev: 3336 ft. Lat: 39.7675° N Lon: 101.8067° W  
Station: SAINT FRANCIS, KS US USC00147093  
Generated on 04/29/2024

| Temperature (°F) |           |           |      |                       |                       |                       |                     |       |       |       |       |       |                     |       |       |        |                     |           |           |           |           |          |
|------------------|-----------|-----------|------|-----------------------|-----------------------|-----------------------|---------------------|-------|-------|-------|-------|-------|---------------------|-------|-------|--------|---------------------|-----------|-----------|-----------|-----------|----------|
| Mean             |           |           |      |                       |                       |                       | Cooling Degree Days |       |       |       |       |       | Heating Degree Days |       |       |        | Mean Number of Days |           |           |           |           |          |
|                  |           |           |      |                       |                       |                       | Base (above)        |       |       |       |       |       | Base (above)        |       |       |        |                     |           |           |           |           |          |
| Month            | Daily Max | Daily Min | Mean | Long Term Max Std Dev | Long Term Min Std Dev | Long Term Avg Std Dev | 55                  | 57    | 60    | 65    | 70    | 72    | 55                  | 57    | 60    | 65     | Max >= 100          | Max >= 90 | Max >= 50 | Max <= 32 | Min <= 32 | Min <= 0 |
| 01               | 43.4      | 15.3      | 29.4 | 4.7                   | 3.3                   | 3.8                   | 0.0                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 795.2               | 857.1 | 950.1 | 1105.1 | 0.0                 | 0.0       | 11.2      | 7.3       | 30.8      | 2.3      |
| 02               | 46.1      | 17.6      | 31.8 | 6.8                   | 4.6                   | 5.3                   | 0.4                 | 0.1   | 0.0   | 0.0   | 0.0   | 0.0   | 648.3               | 704.1 | 788.0 | 928.0  | 0.0                 | 0.0       | 12.4      | 5.1       | 27.4      | 1.9      |
| 03               | 56.5      | 26.3      | 41.4 | 4.7                   | 2.9                   | 3.6                   | 10.0                | 5.3   | 1.6   | 0.0   | 0.0   | 0.0   | 431.7               | 489.0 | 578.3 | 731.7  | 0.0                 | 0.0       | 21.5      | 1.8       | 24.3      | 0.4      |
| 04               | 64.5      | 34.8      | 49.6 | 3.6                   | 2.5                   | 2.7                   | 45.9                | 29.6  | 13.9  | 2.4   | 0.4   | 0.1   | 206.3               | 250.0 | 324.3 | 462.9  | 0.0                 | 0.2       | 25.3      | 0.4       | 11.4      | 0.0      |
| 05               | 74.1      | 45.9      | 60.0 | 4.0                   | 2.6                   | 2.9                   | 211.8               | 170.2 | 116.9 | 51.3  | 15.0  | 7.9   | 56.7                | 77.1  | 116.8 | 206.3  | 0.1                 | 2.7       | 29.9      | 0.0       | 1.6       | 0.0      |
| 06               | 86.2      | 57.1      | 71.6 | 3.6                   | 2.4                   | 2.8                   | 501.6               | 443.4 | 357.8 | 225.8 | 116.5 | 82.3  | 2.4                 | 4.1   | 8.6   | 26.4   | 2.3                 | 12.1      | 29.9      | 0.0       | 0.0       | 0.0      |
| 07               | 91.7      | 62.6      | 77.1 | 3.1                   | 1.8                   | 2.2                   | 686.4               | 624.4 | 531.7 | 379.3 | 233.3 | 180.1 | 0.0                 | 0.0   | 0.4   | 2.7    | 5.7                 | 19.7      | 31.0      | 0.0       | 0.0       | 0.0      |
| 08               | 89.3      | 60.3      | 74.8 | 3.2                   | 2.0                   | 2.3                   | 613.8               | 552.1 | 460.3 | 310.6 | 173.6 | 125.9 | 0.2                 | 0.5   | 1.7   | 6.9    | 2.7                 | 16.7      | 31.0      | 0.0       | 0.0       | 0.0      |
| 09               | 81.5      | 50.3      | 65.9 | 3.5                   | 2.9                   | 3.0                   | 343.6               | 291.7 | 219.4 | 119.8 | 48.6  | 29.3  | 16.8                | 24.8  | 42.5  | 92.9   | 0.6                 | 8.3       | 29.6      | 0.0       | 0.2       | 0.0      |
| 10               | 67.9      | 35.9      | 51.9 | 4.1                   | 2.5                   | 3.0                   | 76.6                | 54.0  | 28.8  | 7.6   | 1.0   | 0.4   | 172.6               | 212.0 | 279.8 | 413.6  | 0.0                 | 1.1       | 28.0      | 0.5       | 9.8       | 0.1      |
| 11               | 54.5      | 24.4      | 39.4 | 5.3                   | 2.9                   | 3.7                   | 5.1                 | 2.4   | 0.6   | 0.0   | 0.0   | 0.0   | 471.6               | 528.9 | 617.1 | 766.5  | 0.0                 | 0.0       | 18.9      | 2.2       | 25.5      | 0.2      |
| 12               | 44.5      | 16.2      | 30.4 | 4.0                   | 3.2                   | 3.3                   | 0.1                 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 764.0               | 825.9 | 918.9 | 1074.0 | 0.0                 | 0.0       | 12.0      | 5.9       | 30.7      | 1.7      |
| Summary          | 66.7      | 37.2      | 51.9 | 4.2                   | 2.8                   | 3.2                   | 2495                | 2173  | 1731  | 1097  | 588   | 426   | 3566                | 3974  | 4626  | 5817   | 11.4                | 60.8      | 280.7     | 23.2      | 161.7     | 6.6      |

Empty or blank cells indicate data is missing or insufficient occurrences to compute value

U.S. Department of Commerce  
National Oceanic & Atmospheric Administration  
National Environmental Satellite, Data, and Information Service  
  
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Summary of Monthly Normals  
1991-2020  
Generated on 04/29/2024

National Centers for Environmental Information  
151 Patton Avenue  
Asheville, North Carolina 28801

| Precipitation (in.) |        |                     |         |         |         |                                                                                                                        |       |       |  |
|---------------------|--------|---------------------|---------|---------|---------|------------------------------------------------------------------------------------------------------------------------|-------|-------|--|
|                     | Totals | Mean Number of Days |         |         |         | Precipitation Probabilities<br>Probability that precipitation will be<br>equal to or less than<br>the indicated amount |       |       |  |
|                     | Means  | Daily Precipitation |         |         |         | Monthly Precipitation<br>vs. Probability Levels                                                                        |       |       |  |
| Month               | Mean   | >= 0.01             | >= 0.10 | >= 0.50 | >= 1.00 | 0.25                                                                                                                   | 0.50  | 0.75  |  |
| 01                  | 0.38   | 2.7                 | 1.0     | 0.2     | 0.0     | 0.12                                                                                                                   | 0.19  | 0.61  |  |
| 02                  | 0.44   | 3.1                 | 1.4     | 0.1     | 0.0     | 0.14                                                                                                                   | 0.39  | 0.65  |  |
| 03                  | 0.72   | 3.8                 | 1.9     | 0.4     | 0.1     | 0.30                                                                                                                   | 0.59  | 1.00  |  |
| 04                  | 1.63   | 6.1                 | 3.7     | 0.9     | 0.3     | 0.76                                                                                                                   | 1.38  | 2.31  |  |
| 05                  | 2.43   | 7.6                 | 5.4     | 1.5     | 0.4     | 0.90                                                                                                                   | 2.06  | 3.56  |  |
| 06                  | 2.42   | 7.9                 | 5.1     | 1.5     | 0.6     | 1.50                                                                                                                   | 2.29  | 2.95  |  |
| 07                  | 2.89   | 8.1                 | 5.7     | 1.9     | 0.6     | 1.80                                                                                                                   | 2.74  | 4.10  |  |
| 08                  | 2.92   | 6.8                 | 4.7     | 1.9     | 0.8     | 1.43                                                                                                                   | 2.20  | 4.33  |  |
| 09                  | 1.49   | 4.1                 | 2.7     | 1.1     | 0.4     | 0.81                                                                                                                   | 1.25  | 2.31  |  |
| 10                  | 1.29   | 4.4                 | 3.0     | 0.8     | 0.2     | 0.39                                                                                                                   | 0.97  | 1.68  |  |
| 11                  | 0.50   | 3.0                 | 1.9     | 0.2     | 0.0     | 0.20                                                                                                                   | 0.35  | 0.72  |  |
| 12                  | 0.45   | 2.4                 | 1.2     | 0.2     | 0.1     | 0.08                                                                                                                   | 0.43  | 0.56  |  |
| Summary             | 17.56  | 60.0                | 37.7    | 10.7    | 3.5     | 8.43                                                                                                                   | 14.84 | 24.78 |  |

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1991-2020  
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National Centers for Environmental Information  
151 Patton Avenue  
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| Snow (in.) |                  |                        |     |     |      |       |                          |     |     |     |                                                                                                   |      |      |
|------------|------------------|------------------------|-----|-----|------|-------|--------------------------|-----|-----|-----|---------------------------------------------------------------------------------------------------|------|------|
|            | Totals           | Mean Number of Days    |     |     |      |       |                          |     |     |     | Snow Probabilities<br>Probability that snow will be equal to<br>or less than the indicated amount |      |      |
|            | Means            | Snowfall >= Thresholds |     |     |      |       | Snow Depth >= Thresholds |     |     |     | Monthly Snow vs. Probability Levels<br>Values derived from the<br>incomplete gamma distribution.  |      |      |
| Month      | Snowfall<br>Mean | 0.01                   | 1.0 | 3.0 | 5.00 | 10.00 | 1                        | 3   | 5   | 10  | .25                                                                                               | .50  | .75  |
| 01         | 4.60             | 1.8                    | 1.6 | 0.5 | 0.2  | 0.0   | 3.2                      | 2.0 | 0.9 | 0.2 | 1.00                                                                                              | 3.50 | 8.20 |
| 02         | 4.50             | 1.6                    | 1.5 | 0.6 | 0.3  | 0.0   | 3.3                      | 1.9 | 1.0 | 0.3 | 1.00                                                                                              | 3.00 | 6.50 |
| 03         | 2.90             | 1.3                    | 1.3 | 0.4 | 0.2  | 0.0   | 1.1                      | 0.5 | 0.1 | 0.0 | 0.00                                                                                              | 1.50 | 5.00 |
| 04         | 1.70             | 0.7                    | 0.7 | 0.3 | 0.1  | 0.0   | 0.3                      | 0.1 | 0.0 | 0.0 | 0.00                                                                                              | 0.00 | 2.00 |
| 05         | 0.00             | 0.1                    | 0.1 | 0.0 | 0.0  | 0.0   | 0.0                      | 0.0 | 0.0 | 0.0 | 0.00                                                                                              | 0.00 | 0.00 |
| 06         | 0.00             | 0.0                    | 0.0 | 0.0 | 0.0  | 0.0   | 0.0                      | 0.0 | 0.0 | 0.0 | 0.00                                                                                              | 0.00 | 0.00 |
| 07         | 0.00             | 0.0                    | 0.0 | 0.0 | 0.0  | 0.0   | 0.0                      | 0.0 | 0.0 | 0.0 | 0.00                                                                                              | 0.00 | 0.00 |
| 08         | 0.00             | 0.0                    | 0.0 | 0.0 | 0.0  | 0.0   | 0.0                      | 0.0 | 0.0 | 0.0 | 0.00                                                                                              | 0.00 | 0.00 |
| 09         | 0.30             | 0.0                    | 0.0 | 0.0 | 0.0  | 0.0   | 0.0                      | 0.0 | 0.0 | 0.0 | 0.00                                                                                              | 0.00 | 0.00 |
| 10         | 0.90             | 0.3                    | 0.3 | 0.2 | 0.1  | 0.0   | 0.4                      | 0.2 | 0.1 | 0.0 | 0.00                                                                                              | 0.00 | 0.50 |
| 11         | 2.00             | 1.0                    | 0.9 | 0.3 | 0.0  | 0.0   | 1.1                      | 0.4 | 0.2 | 0.0 | 0.00                                                                                              | 1.00 | 3.50 |
| 12         | 2.90             | 1.7                    | 1.4 | 0.3 | 0.0  | 0.0   | 2.7                      | 1.3 | 0.6 | 0.1 | 0.00                                                                                              | 2.00 | 4.50 |
| Summary    | 19.8             | 8.5                    | 7.8 | 2.6 | 0.9  | 0.0   | 12.1                     | 6.4 | 2.9 | 0.6 | 2.0                                                                                               | 11.0 | 30.2 |

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Station: SAINT FRANCIS, KS US USC00147093

| Growing Degree Units (Monthly)          |      |      |       |       |       |       |        |        |       |       |       |      |
|-----------------------------------------|------|------|-------|-------|-------|-------|--------|--------|-------|-------|-------|------|
| Base                                    | Jan  | Feb  | Mar   | Apr   | May   | Jun   | Jul    | Aug    | Sep   | Oct   | Nov   | Dec  |
| Growing Degree Units (Monthly)          |      |      |       |       |       |       |        |        |       |       |       |      |
| Base                                    | Jan  | Feb  | Mar   | Apr   | May   | Jun   | Jul    | Aug    | Sep   | Oct   | Nov   | Dec  |
| 40                                      | 18.7 | 34.9 | 158.2 | 317.0 | 621.4 | 949.3 | 1151.4 | 1078.6 | 777.4 | 392.1 | 118.9 | 22.3 |
| 45                                      | 4.4  | 11.8 | 82.4  | 201.4 | 471.9 | 799.3 | 996.4  | 923.6  | 629.2 | 263.5 | 57.5  | 5.9  |
| 50                                      | 0.6  | 3.0  | 35.0  | 108.7 | 332.6 | 649.9 | 841.3  | 768.6  | 483.0 | 155.8 | 21.7  | 1.1  |
| 55                                      | 0.0  | 0.4  | 10.0  | 45.9  | 211.8 | 501.6 | 686.4  | 613.8  | 343.6 | 76.6  | 5.1   | 0.1  |
| 60                                      | 0.0  | 0.0  | 1.6   | 13.9  | 116.9 | 357.8 | 531.7  | 460.3  | 219.4 | 28.8  | 0.6   | 0.0  |
| Growing Degree Units for Corn (Monthly) |      |      |       |       |       |       |        |        |       |       |       |      |
| 50/86                                   | 41.6 | 59.3 | 154.0 | 233.5 | 386.1 | 597.1 | 733.0  | 689.2  | 488.4 | 285.8 | 128.7 | 47.5 |

| Growing Degree Units (Accumulated Monthly)          |    |     |     |     |      |      |      |      |      |      |      |      |
|-----------------------------------------------------|----|-----|-----|-----|------|------|------|------|------|------|------|------|
| 40                                                  | 19 | 54  | 212 | 529 | 1150 | 2100 | 3251 | 4330 | 5107 | 5499 | 5618 | 5640 |
| 45                                                  | 4  | 16  | 99  | 300 | 772  | 1571 | 2568 | 3491 | 4120 | 4384 | 4441 | 4447 |
| 50                                                  | 1  | 4   | 39  | 147 | 480  | 1130 | 1971 | 2740 | 3223 | 3378 | 3400 | 3401 |
| 55                                                  | 0  | 0   | 10  | 56  | 268  | 770  | 1456 | 2070 | 2413 | 2490 | 2495 | 2495 |
| 60                                                  | 0  | 0   | 2   | 16  | 132  | 490  | 1022 | 1482 | 1702 | 1730 | 1731 | 1731 |
| Growing Degree Units for Corn (Monthly Accumulated) |    |     |     |     |      |      |      |      |      |      |      |      |
| 50/86                                               | 42 | 101 | 255 | 488 | 874  | 1472 | 2205 | 2894 | 3382 | 3668 | 3797 | 3844 |

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86.

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