**Annual Average Temperature**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Location** | **Metric** | **2020-2029** | **2030-2039** | **2040-2049** | **2050-2059** | **2060-2069** | **2070-2079** | **2080-2089** | **2090-2099** |
| Gore, OK | RCP 4.5 Average Annual Temperature Change (F) | +1.82 | +4.01 | +4.50 | +5.91 | +6.45 | +7.77 | +7.77 | +8.56 |
| RCP 8.5 Average Annual Temperature Change (F) | +1.49 | +4.04 | +5.50 | +7.66 | +9.28 | +11.60 | +13.04 | +14.87 |
| Jonesboro, AR | RCP 4.5 Average Annual Temperature Change (F) | +2.04 | +3.80 | +4.98 | +6.03 | +6.34 | +7.74 | +7.44 | +8.33 |
| RCP 8.5 Average Annual Temperature Change (F) | +1.02 | +2.79 | +5.08 | +7.36 | +8.85 | +11.09 | +12.51 | +14.43 |
| Springfield, MO | RCP 4.5 Average Annual Temperature Change (F) | +1.42 | +4.76 | +5.18 | +6.39 | +6.80 | +8.47 | +8.37 | +8.89 |
| RCP 8.5 Average Annual Temperature Change (F) | +1.89 | +5.04 | +5.92 | +8.47 | +9.91 | +12.13 | +13.51 | +15.18 |
| Tulsa, OK | RCP 4.5 Average Annual Temperature Change (F) | +1.32 | +3.45 | +3.76 | +4.96 | +5.34 | +6.46 | +6.44 | +6.88 |
| RCP 8.5 Average Annual Temperature Change (F) | +1.57 | +4.06 | +4.72 | +6.85 | +7.82 | +9.98 | +11.51 | +12.99 |

**Maximum Temperature and Cooling Degree Days**

|  |  |  |  |
| --- | --- | --- | --- |
| **Location** | **Metric** | **2010 Observed** | **2050-2059 [Uncertainty]** |
| Gore, OK | Average Daily Maximum Temperature (°F) RCP 4.5 | 71.2 | 76.9 [72.3-81.0] |
| Average Daily Maximum Temperature (°F) RCP 8.5 | 77.9 [74.0-81.9] |
| Cooling Degree Days RCP 4.5 | 2200 | 2700 [2000-3600] |
| Cooling Degree Days RCP 8.5 | 3000 [2300-3800] |
| Jonesboro, AR | Average Daily Maximum Temperature (°F) RCP 4.5 | 70.9 | 75.6 [71.5-79.5] |
| Average Daily Maximum Temperature (°F) RCP 8.5 | 76.6 [73.1-80.8] |
| Cooling Degree Days RCP 4.5 | 2200 | 2700 [2000-3500] |
| Cooling Degree Days RCP 8.5 | 3000 [2300-3800] |
| Springfield, MO | Average Daily Maximum Temperature (°F) RCP 4.5 |  |  |
| Average Daily Maximum Temperature (°F) RCP 8.5 |  |
| Cooling Degree Days RCP 4.5 |  |  |
| Cooling Degree Days RCP 8.5 |  |
| Tulsa, OK | Average Daily Maximum Temperature (°F) RCP 4.5 | 71.1 | 75.9 [71.1-80.0] |
| Average Daily Maximum Temperature (°F) RCP 8.5 | 76.9 [72.5-80.8] |
| Cooling Degree Days RCP 4.5 | 2200 | 2700 [1900-3500] |
| Cooling Degree Days RCP 8.5 | 3000 [2300-3700] |

**Days above 90°F**

|  |  |  |  |
| --- | --- | --- | --- |
| **Location** | **Metric** | **2010 Observed** | **2050-2059** |
| Gore, OK | RCP 4.5 Days >90°F | 75.2 | 102.8 [51.2-142.6] |
| RCP 8.5 Days >90°F | 113.6 [75.0-146.7] |
| Jonesboro, AR | RCP 4.5 Days >90°F | 83.1 | 101.9 [51.6-139.0] |
| RCP 8.5 Days >90°F | 110.6 [74.3-147.5] |
| Springfield, MO | RCP 4.5 Days >90°F | 50.4 | 75.8 [27.4-118.9] |
| RCP 8.5 Days >90°F | 85.5 [46.4-122.1] |
| Tulsa, OK | RCP 4.5 Days >90°F | 69.9 | 101.2 [54.5-139.8] |
| RCP 8.5 Days >90°F | 110.2 [70.2-142.8] |

**Minimum Temperature and Cooling Degree Days**

|  |  |  |  |
| --- | --- | --- | --- |
| **Location** | **Metric** | **2010 Observed** | **2050-2059 [Uncertainty]** |
| Gore, OK | Average Daily Minimum Temperature (°F) RCP 4.5 | 50.4 | 53.4 [50.4-56.6] |
| Average Daily Minimum Temperature (°F) RCP 8.5 | 54.8 [51.7-57.7] |
| Heating Degree Days RCP 4.5 | 3700 | 2700 [2000-3400] |
| Heating Degree Days RCP 8.5 | 2500 [1800-3300] |
| Jonesboro, AR | Average Daily Minimum Temperature (°F) RCP 4.5 | 49.4 | 53.8 [50.7-56.8] |
| Average Daily Minimum Temperature (°F) RCP 8.5 | 55.0 [52.1-58.1] |
| Heating Degree Days RCP 4.5 | 4000 | 2800 [2000-3500] |
| Heating Degree Days RCP 8.5 | 2700 [2000-3400] |
| Springfield, MO | Average Daily Minimum Temperature (°F) RCP 4.5 | 45.5 | 49.2 [45.8-52.5] |
| Average Daily Minimum Temperature (°F) RCP 8.5 | 50.4 [47.5-53.6] |
| Heating Degree Days RCP 4.5 | 4800 | 3700 [2800-4600] |
| Heating Degree Days RCP 8.5 | 3500 [2700-4400] |
| Tulsa, OK | Average Daily Minimum Temperature (°F) RCP 4.5 | 49.9 | 52.4 [49.3-55.4] |
| Average Daily Minimum Temperature (°F) RCP 8.5 | 53.7 [50.9-56.5] |
| Heating Degree Days RCP 4.5 | 3800 | 3000 [2300-3800] |
| Heating Degree Days RCP 8.5 | 2900 [2100-3600] |

**Days below 32°F**

|  |  |  |  |
| --- | --- | --- | --- |
| **Location** | **Metric** | **2010 Observed** | **2050-2059** |
| Gore, OK | RCP 4.5 Days < 32°F | 74.6 | 53.2 [30.9-77.6] |
| RCP 8.5 Days < 32°F | 47.2 [20.7-71.7] |
| Jonesboro, AR | RCP 4.5 Days < 32°F | 86.8 | 48.3 [22.3-74.4] |
| RCP 8.5 Days < 32°F | 43.6 [19.4-67.5] |
| Springfield, MO | RCP 4.5 Days < 32°F | 98.6 | 77.6 [47.3-102.6] |
| RCP 8.5 Days < 32°F | 72.6 [40.6-98.1] |
| Tulsa, OK | RCP 4.5 Days < 32°F | 78.8 | 62.7 [36.2-85.7] |
| RCP 8.5 Days < 32°F | 57.3 [27.7-82.3] |

**Precipitation**

|  |  |  |  |
| --- | --- | --- | --- |
| **Location** | **Metric** | **2010 Observed** | **2050-2059** |
| Gore, OK | RCP 4.5 Precipitation (inches) | 44.98 | 45.52 [24.4-71.9] |
| RCP 8.5 Precipitation (inches) | 46.25 [27.18-71.46] |
| Jonesboro, AR | RCP 4.5 Precipitation (inches) | 39.80 | 48.84 [28.48-74.26] |
| RCP 8.5 Precipitation (inches) | 50.17 [30.66-71.73] |
| Springfield, MO | RCP 4.5 Precipitation (inches) | 48.83 | 41.75 [23.59-63.85] |
| RCP 8.5 Precipitation (inches) | 42.41 [25.71-60.65] |
| Tulsa, OK | RCP 4.5 Precipitation (inches) | 36.99 | 38.56 [20.99-61.56] |
| RCP 8.5 Precipitation (inches) | 39.27 [22.97-61.11] |

**High Precipitation Days**

|  |  |  |  |
| --- | --- | --- | --- |
| **Location** | **Metric** | **2010 Observed** | **2050-2059** |
| Gore, OK | RCP 4.5 number of days per year with > 2” precipitation | 2.4 | 1.3 [0.0-4.9] |
| RCP 8.5 number of days per year with > 2” precipitation | 1.5 [0.0-5.5] |
| Jonesboro, AR | RCP 4.5 number of days per year with > 2” precipitation | 0.7 | 1.1 [0.0-4.1] |
| RCP 8.5 number of days per year with > 2” precipitation | 1.3 [0.0-4.7] |
| Springfield, MO | RCP 4.5 number of days per year with > 2” precipitation | 1.5 | 0.8 [0.0-3.3] |
| RCP 8.5 number of days per year with > 2” precipitation | 0.9 [0.0-3.6] |
| Tulsa, OK | RCP 4.5 number of days per year with > 2” precipitation | 2.0 | 0.9 [0.0-3.9] |
| RCP 8.5 number of days per year with > 2” precipitation | 1.2 [0.0-4.9] |

**Dry Days**

|  |  |  |  |
| --- | --- | --- | --- |
| **Location** | **Metric** | **2010 Observed** | **2050-2059** |
| Gore, OK | RCP 4.5 number of days per year with no precipitation | 217.2 | 222.2 [186.5-263.9] |
| RCP 8.5 number of days per year with no precipitation | 223.7 [182.1-265.9] |
| Jonesboro, AR | RCP 4.5 number of days per year with no precipitation | 226.8 | 199.1 [158.4-245.0] |
| RCP 8.5 number of days per year with no precipitation | 200.1 [164.6-244.0] |
| Springfield, MO | RCP 4.5 number of days per year with no precipitation | 191.3 | 215.7 [174.6-259.4] |
| RCP 8.5 number of days per year with no precipitation | 216.7 [180.4-257.0] |
| Tulsa, OK | RCP 4.5 number of days per year with no precipitation | 221.7 | 233.0 [191.1-275.5] |
| RCP 8.5 number of days per year with no precipitation | 235.0 [193.7-279.1] |

**Annual Average Windspeed**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Location** | **Metric** | **2020-2029** | **2030-2039** | **2040-2049** | **2050-2059** | **2060-2069** | **2070-2079** | **2080-2089** | **2090-2099** |
| Gore, OK | RCP 4.5 Change in Annual Average Wind Speed (miles per hour) | 0.16 | 0.30 | 0.22 | 0.04 | -0.04 | 0.03 | -0.37 | -0.23 |
| RCP 8.5 Annual Change in Average Wind Speed (miles per hour) | -0.04 | -0.08 | -0.02 | -0.19 | -0.26 | -0.60 | -0.70 | -1.37 |
| Jonesboro, AR | RCP 4.5 Change in Annual Average Wind Speed (miles per hour) | 0.11 | 0.29 | 0.16 | -0.01 | -0.18 | -0.04 | -0.53 | -0.52 |
| RCP 8.5 Annual Change in Average Wind Speed (miles per hour) | -0.06 | -0.19 | -0.18 | -0.19 | -0.53 | -1.04 | -1.16 | -1.80 |
| Springfield, MO | RCP 4.5 Change in Annual Average Wind Speed (miles per hour) | 0.02 | 0.21 | 0.19 | -0.07 | -0.22 | -0.04 | -0.30 | -0.29 |
| RCP 8.5 Annual Change in Average Wind Speed (miles per hour) | -0.07 | 0.08 | -0.05 | -0.17 | -0.31 | -0.37 | -0.43 | -0.47 |
| Tulsa, OK | RCP 4.5 Change in Annual Average Wind Speed (miles per hour) | 0.00 | 0.17 | 0.17 | 0.02 | -0.04 | 0.21 | -0.06 | -0.01 |
| RCP 8.5 Annual Change in Average Wind Speed (miles per hour) | 0.00 | 0.11 | 0.06 | -0.05 | -0.09 | -0.13 | -0.22 | -0.28 |

**Annual Average Maximum Windspeed**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Location** | **Metric** | **2020-2029** | **2030-2039** | **2040-2049** | **2050-2059** | **2060-2069** | **2070-2079** | **2080-2089** | **2090-2099** |
| Gore, OK | RCP 4.5 Change in Annual Average Daily Maximum Wind Speed (miles per hour) | 0.16 | 0.46 | 0.31 | 0.10 | -0.05 | 0.16 | -0.42 | -0.16 |
| RCP 8.5 Annual Change in Average Daily Maximum Wind Speed (miles per hour) | -0.01 | -0.04 | 0.11 | -0.15 | -0.24 | -0.71 | -0.83 | -1.66 |
| Jonesboro, AR | RCP 4.5 Change in Annual Average Daily Maximum Wind Speed (miles per hour) | 0.13 | 0.34 | 0.13 | 0.04 | -0.12 | 0.02 | -0.53 | -0.49 |
| RCP 8.5 Annual Change in Average Daily Maximum Wind Speed (miles per hour) | -0.06 | -0.16 | -0.14 | -0.15 | -0.59 | -1.15 | -1.32 | -2.07 |
| Springfield, MO | RCP 4.5 Change in Annual Average Daily Maximum Wind Speed (miles per hour) | 0.03 | 0.45 | 0.43 | 0.07 | -0.06 | 0.23 | -0.11 | -0.09 |
| RCP 8.5 Annual Change in Average Daily Maximum Wind Speed (miles per hour) | 0.00 | 0.34 | 0.23 | 0.05 | -0.18 | -0.24 | -0.29 | -0.28 |
| Tulsa, OK | RCP 4.5 Change in Annual Average Daily Maximum Wind Speed (miles per hour) | -0.06 | 0.37 | 0.32 | 0.06 | -0.02 | 0.53 | 0.08 | 0.21 |
| RCP 8.5 Annual Change in Average Daily Maximum Wind Speed (miles per hour) | 0.00 | 0.26 | 0.23 | 0.12 | 0.07 | 0.05 | 0.06 | 0.02 |