

Climate4Cities: Future Projections Tool

- The Future Projections Tool was developed so that you can compare your current normals to future normals. Normals are a 30-year average of daily, monthly, or annual temperature (maximum, minimum, and average) and precipitation, and are produced and released every 10 years by the [National Centers for Environmental Information](#).
- Normals are often presented in the form of a climograph where monthly temperature and precipitation data are plotted on the same graph, resulting in three lines plotted for temperature (maximum, minimum, and average) and individual bars plotted for precipitation.
- In this tutorial, you will see step-by-step instructions for using the Climate4Cities' Future Projections Tool, which can be accessed here: <https://hprcc.unl.edu/climate4cities/projection.php>.

Project Partners:



Funded By:



Climate4Cities: Future Projections Tool Tutorial

On the left hand side of the screen, you will make a number of selections in order to see your projections. On the right hand side of the screen, your results will be displayed.

Select State:
Missouri

Select Location:
COLUMBIA REGIONAL AP

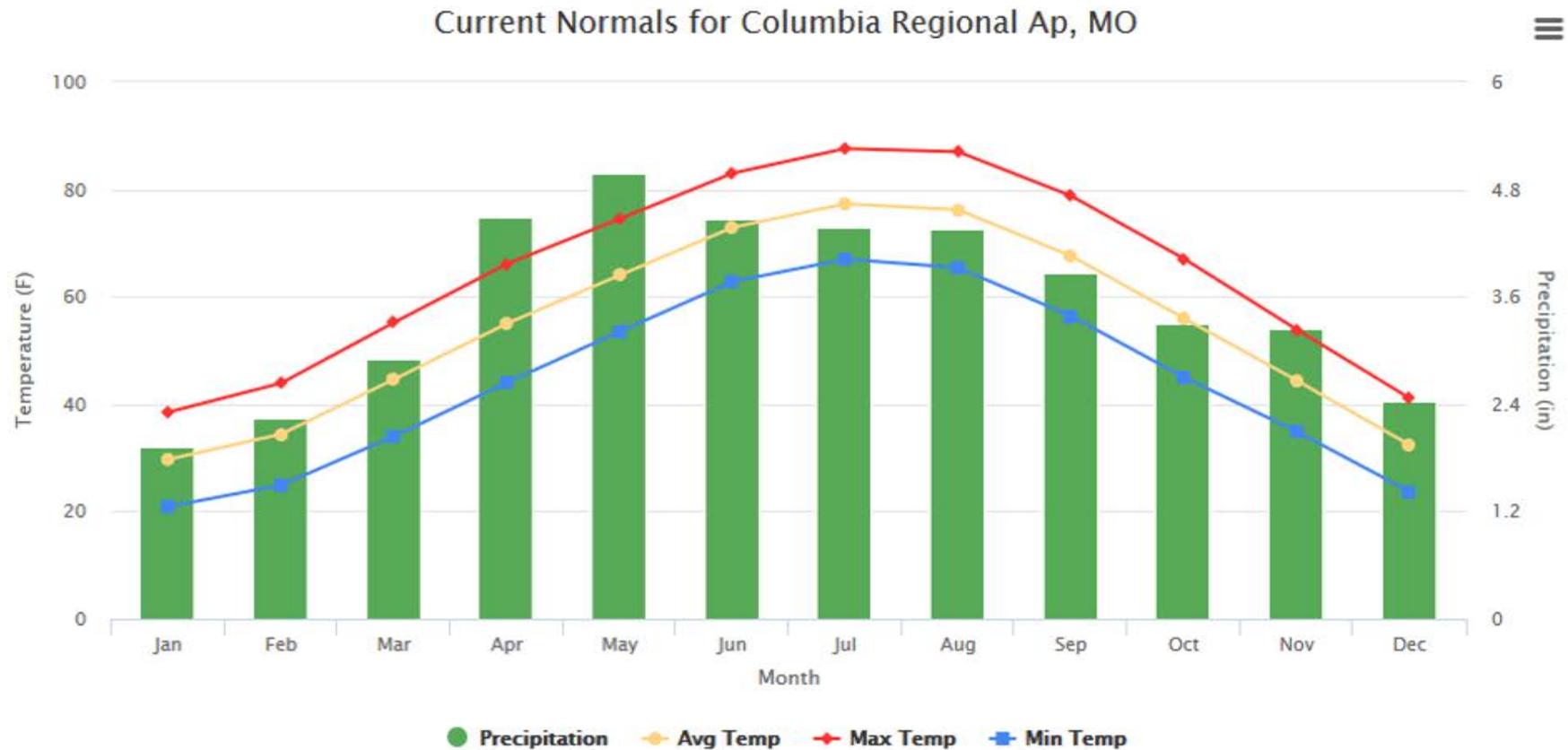
Projection Scenarios:
Higher Emissions (RCP 8.5)

30-Year Interval:
2061-2090

[View Projection](#)

Powered by
ACIS
NOAA Regional Climate Centers

[How do I use this tool?](#)



Climate4Cities: Future Projections Tool Tutorial

Select State:

-- Select State --

-- Select State --

Colorado

Iowa

Kansas

Minnesota

Missouri

Montana

Nebraska

North Dakota

South Dakota

Wyoming

Powered by  ACIS
NOAA Regional Climate Centers

[How do I use this tool?](#)

1. Choose your state. This will populate the "Select Location" list.

Climate4Cities: Future Projections Tool Tutorial

Select State:
Missouri

Select Location:
ANDERSON
ANDERSON
APPLETON CITY
BETHANY
BILLINGS 1SW
BOLIVAR 1 NE
BROOKFIELD
BUTLER 4W
CALIFORNIA
CARROLLTON
CARUTHERSVILLE
CASSVILLE
CHILLICOTHE 2S
CLINTON
COLOMA
COLUMBIA REGIONAL AP
CONCEPTION
CONCORDIA

1. Choose your state. This will populate the "Select Location" list.
2. Select your location.

Climate4Cities: Future Projections Tool Tutorial

Select State:
Missouri

Select Location:
COLUMBIA REGIONAL AP

Projection Scenarios:
Lower Emissions (RCP 4.5)
Lower Emissions (RCP 4.5)
Higher Emissions (RCP 8.5)

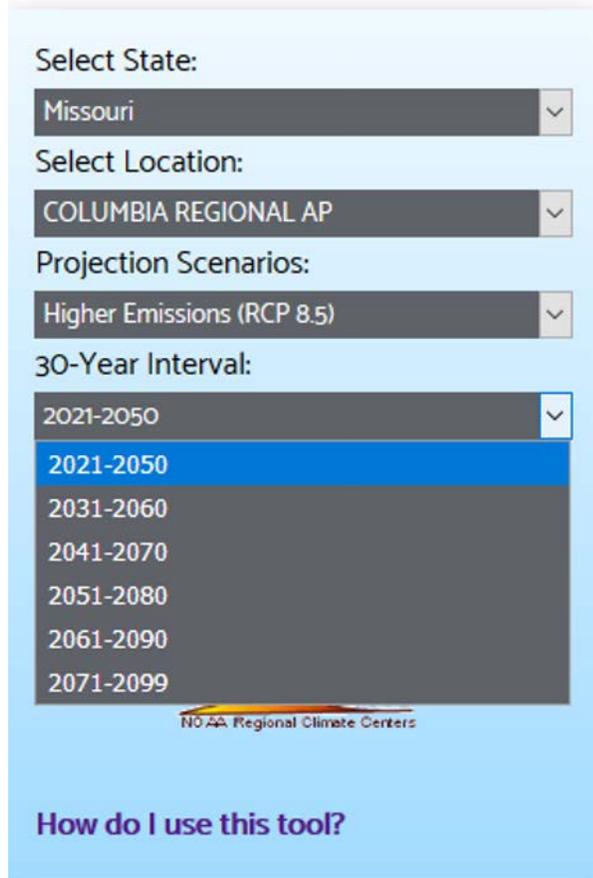
View Projection

Powered by  ACIS
NOAA Regional Climate Centers

[How do I use this tool?](#)

1. Choose your state. This will populate the “Select Location” list.
2. Select your location.
3. Choose between two future scenarios. For more information about these scenarios, please see: <https://nca2018.globalchange.gov/chapter/appendix-3/>.

Climate4Cities: Future Projections Tool Tutorial



Select State:
Missouri

Select Location:
COLUMBIA REGIONAL AP

Projection Scenarios:
Higher Emissions (RCP 8.5)

30-Year Interval:
2021-2050
2031-2060
2041-2070
2051-2080
2061-2090
2071-2099

NOAA Regional Climate Centers

[How do I use this tool?](#)

1. Choose your state. This will populate the “Select Location” list.
2. Select your location.
3. Choose between two future scenarios. For more information about these scenarios, please see: <https://nca2018.globalchange.gov/chapter/appendix-3/>.
4. Select the future time period that you would like to explore.

Climate4Cities: Future Projections Tool Tutorial

Select State:
Missouri

Select Location:
COLUMBIA REGIONAL AP

Projection Scenarios:
Higher Emissions (RCP 8.5)

30-Year Interval:
2061-2090

[View Projection](#)

Powered by  ACIS
NOAA Regional Climate Centers

[How do I use this tool?](#)

1. Choose your state. This will populate the “Select Location” list.
2. Select your location.
3. Choose between two future scenarios. For more information about these scenarios, please see: <https://nca2018.globalchange.gov/chapter/appendix-3/>.
4. Select the future time period that you would like to explore.
5. Click on the “View Projection” button to see your results.

Climate4Cities: Future Projections Tool Tutorial

Your results will be displayed to the right of the menu. Your current normals are displayed at the top. And...

Select State:
Missouri

Select Location:
COLUMBIA REGIONAL AP

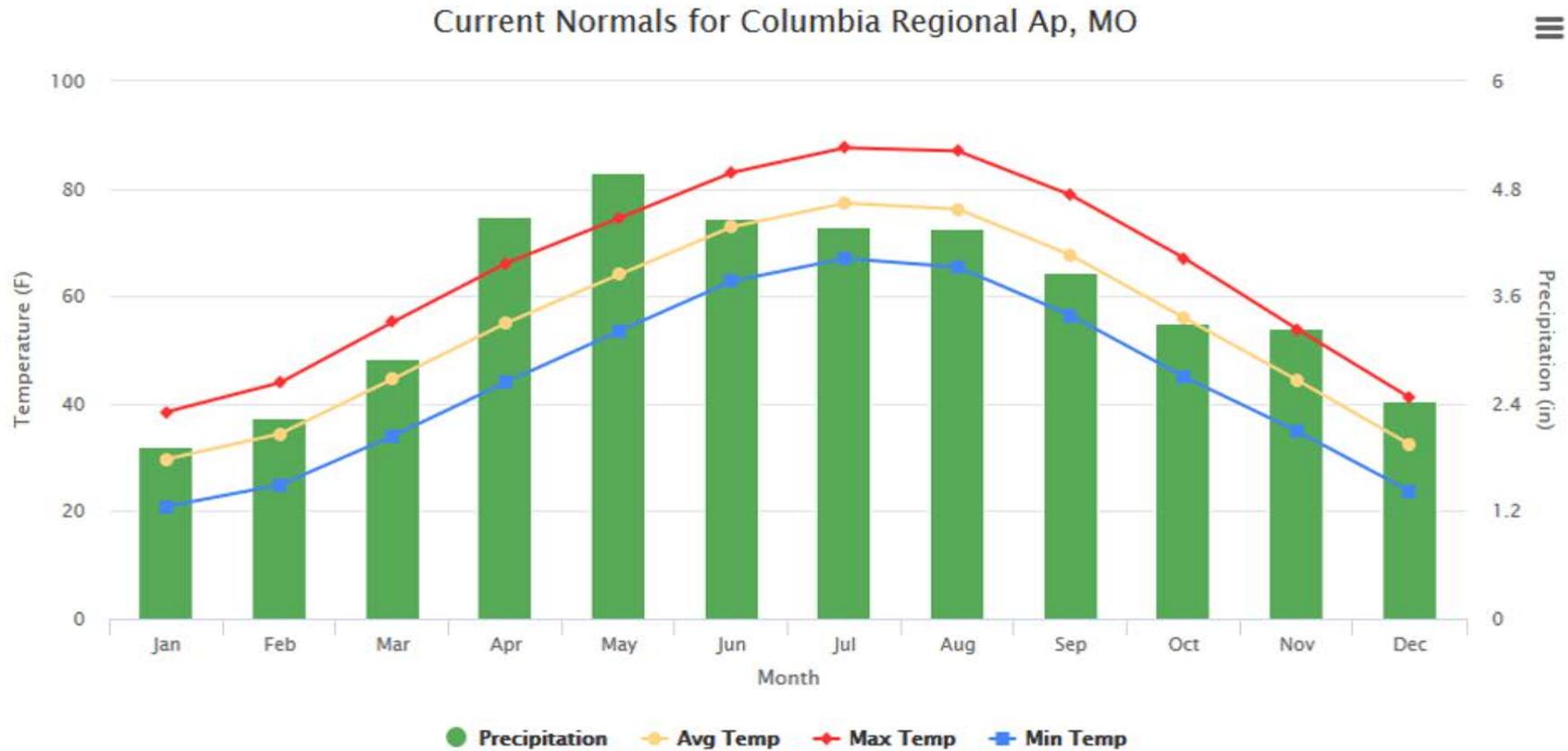
Projection Scenarios:
Higher Emissions (RCP 8.5)

30-Year Interval:
2061-2090

[View Projection](#)

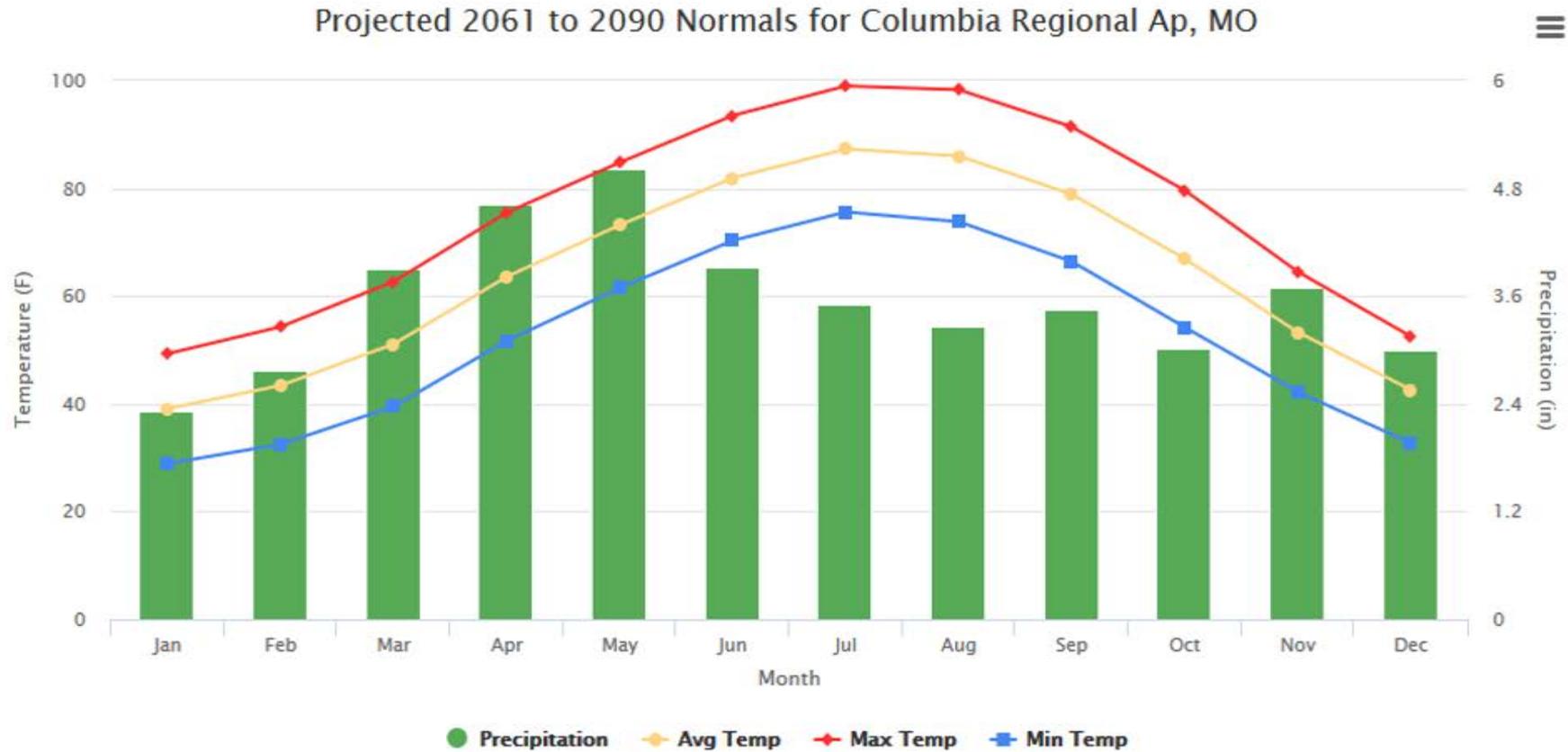
Powered by
ACIS
NOAA Regional Climate Centers

[How do I use this tool?](#)



Climate4Cities: Future Projections Tool Tutorial

Your future normals are displayed below the current normals.



Climate4Cities: Future Projections Tool Tutorial

If you would like to save your graph, click on the collapsed menu icon in the upper right-hand corner.

Select State:
Missouri

Select Location:
COLUMBIA REGIONAL AP

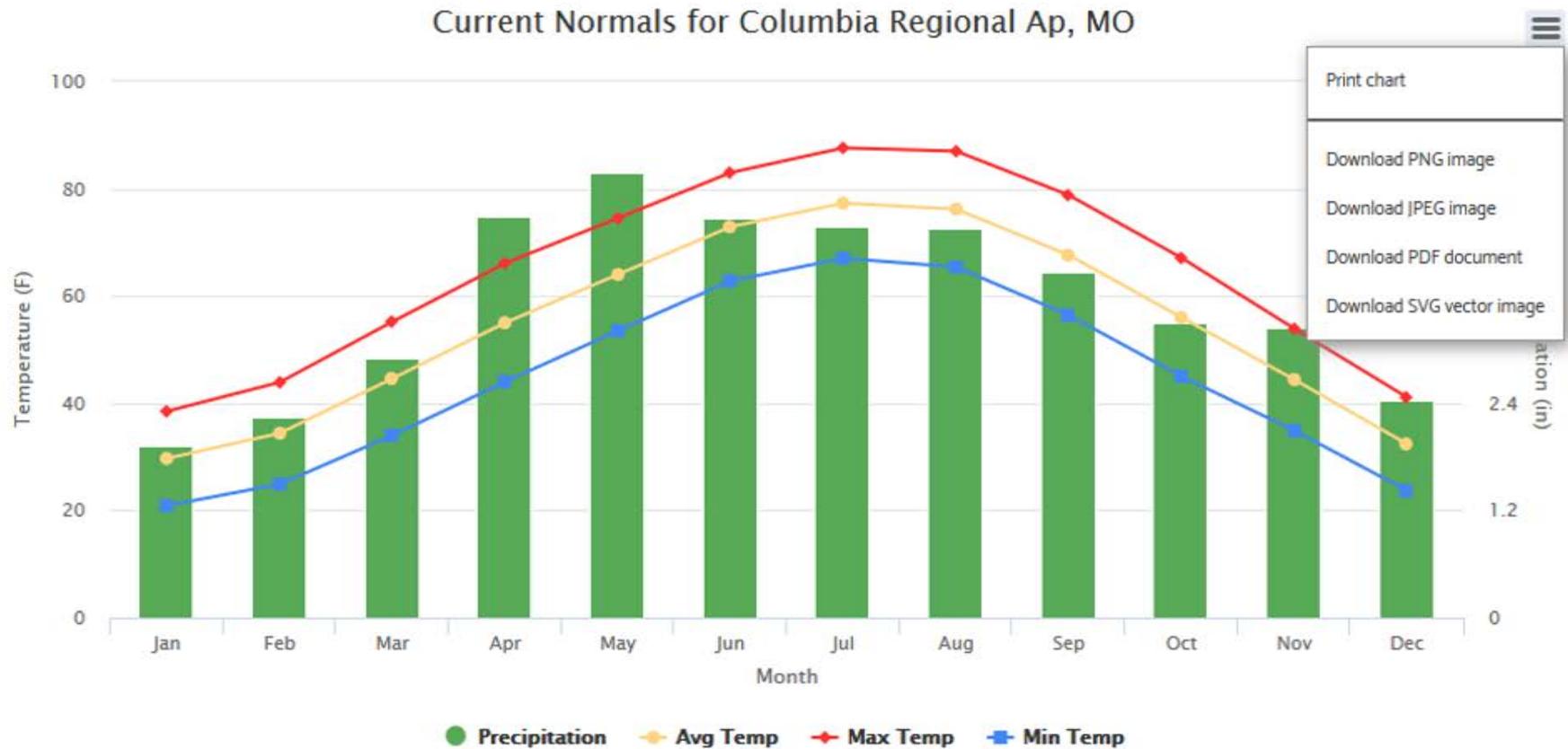
Projection Scenarios:
Higher Emissions (RCP 8.5)

30-Year Interval:
2061-2090

View Projection

Powered by **ACIS**
NOAA Regional Climate Centers

[How do I use this tool?](#)



Climate4Cities: Future Projections Tool Tutorial

The graph is interactive. If you scroll over the graph, individual data points are shown.

Select State:
Missouri

Select Location:
COLUMBIA REGIONAL AP

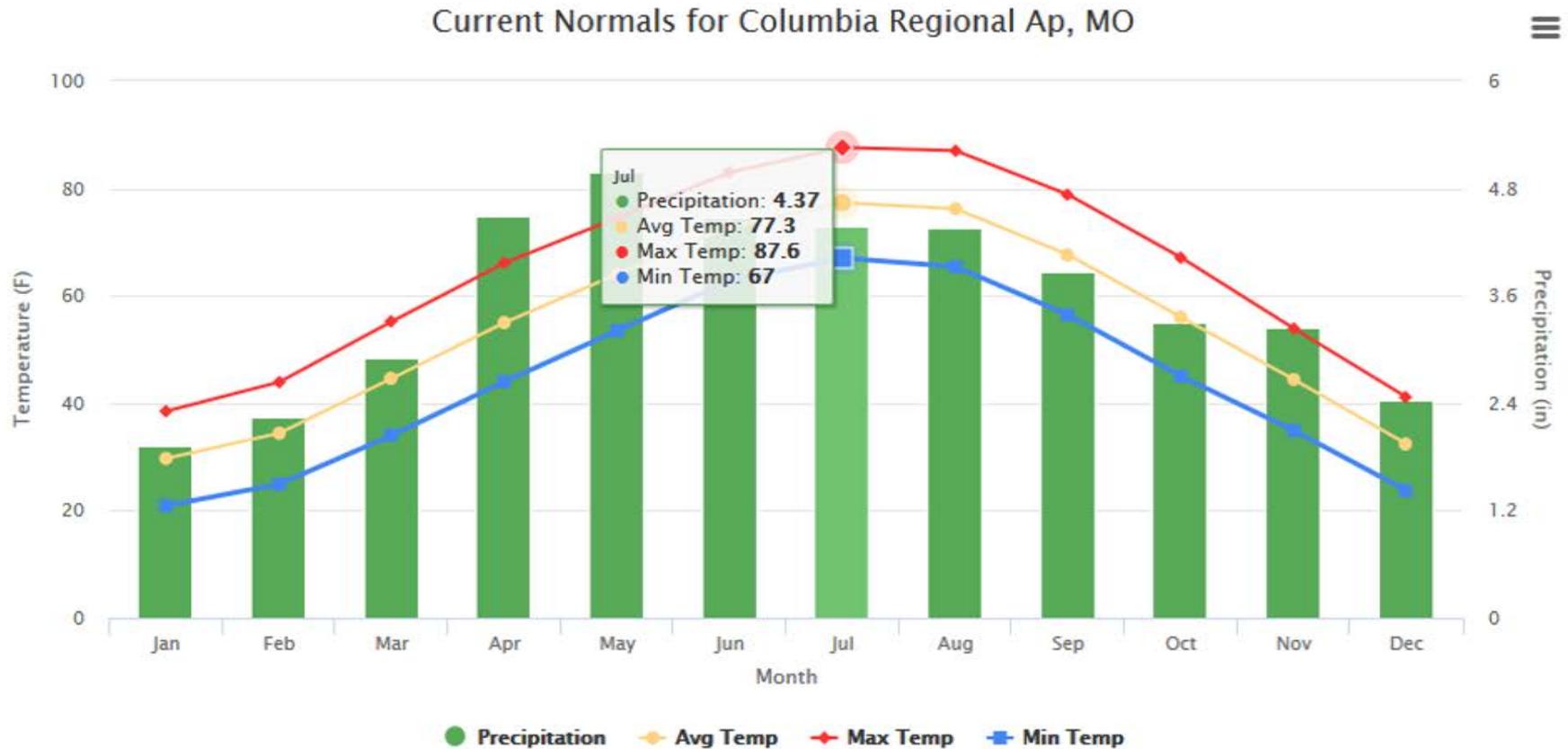
Projection Scenarios:
Higher Emissions (RCP 8.5)

30-Year Interval:
2061-2090

View Projection

Powered by
ACIS
NOAA Regional Climate Centers

How do I use this tool?



Generated by the High Plains Regional Climate Center

Climate4Cities: Future Projections Tool Tutorial

You can also add and remove data/trends by clicking on the legend below the graph.

Select State:
Missouri

Select Location:
COLUMBIA REGIONAL AP

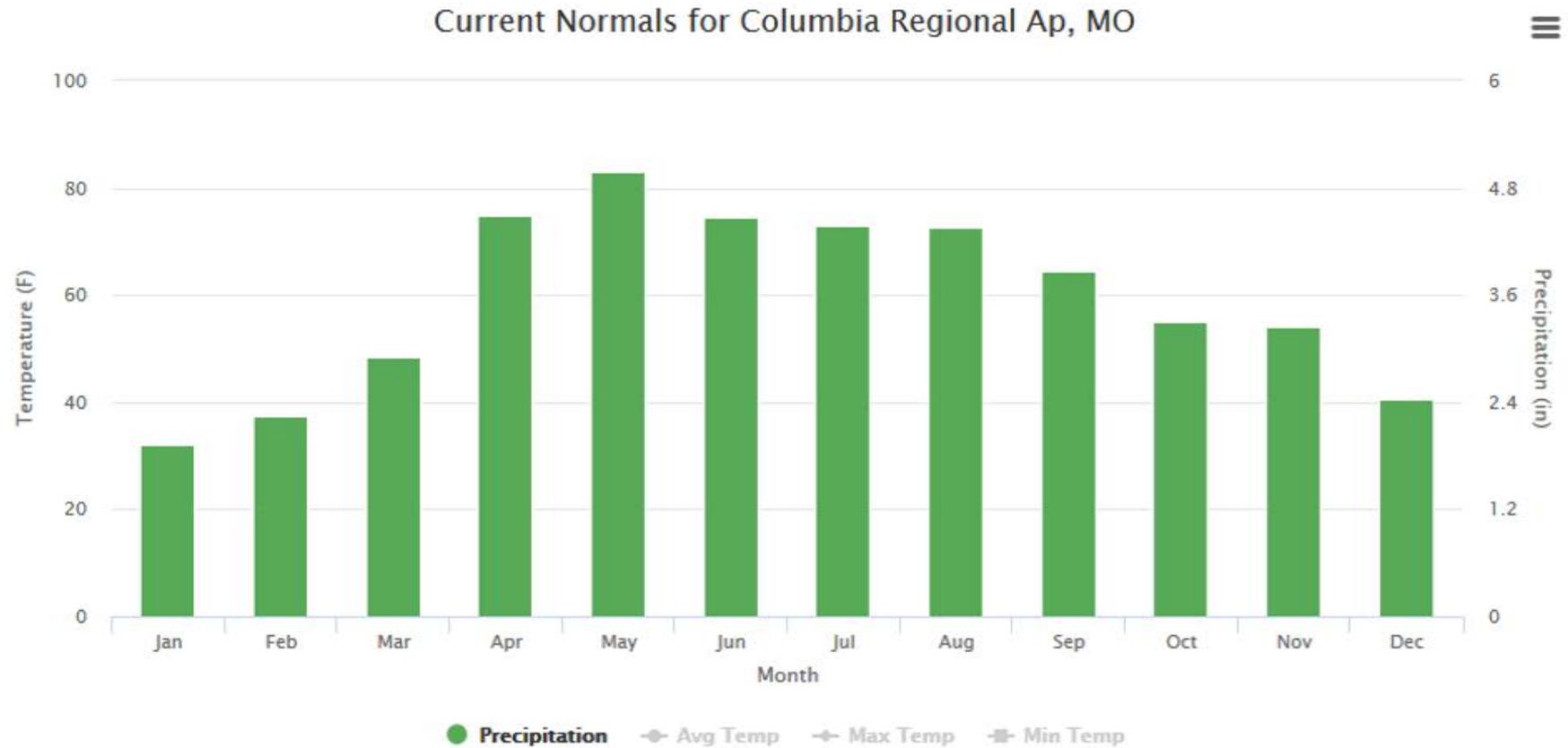
Projection Scenarios:
Higher Emissions (RCP 8.5)

30-Year Interval:
2061-2090

[View Projection](#)

Powered by
ACIS
NOAA Regional Climate Centers

[How do I use this tool?](#)



Generated by the High Plains Regional Climate Center

Climate4Cities: Future Projections Tool Tutorial

Please let us know if you have any questions about using the tool, interpreting the data, or simply have suggestions about ways to improve the tool.

Natalie Umphlett, Regional Climatologist, numphlett2@unl.edu, 402-472-6764



Project Partners:



Funded By:

