

Climate4Cities: Sister City Tool

- The Sister City Tool was developed so that you can explore climate projections in a unique way. Instead of simply providing climate projections in a numerical format, the Sister City Tool matches your future conditions with the current conditions of another location.
- We hope that by displaying comparisons of the future climate to the present, the climate projection data can be put into context. This could help you begin to think about concrete ways to start adapting to a changing climate.
- In this tutorial, you will see step-by-step instructions for using the Climate4Cities' Sister City Tool, which can be accessed here: <https://hprcc.unl.edu/climate4cities/sister.php>.

Project Partners:



Funded By:



Climate4Cities: Sister City Tool Tutorial

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

Select State:
Nebraska

Select Location:
OMAHA EPPLEY AIRFIELD

Select Variable:
Average Temperature

Select Timeframe:
Spring

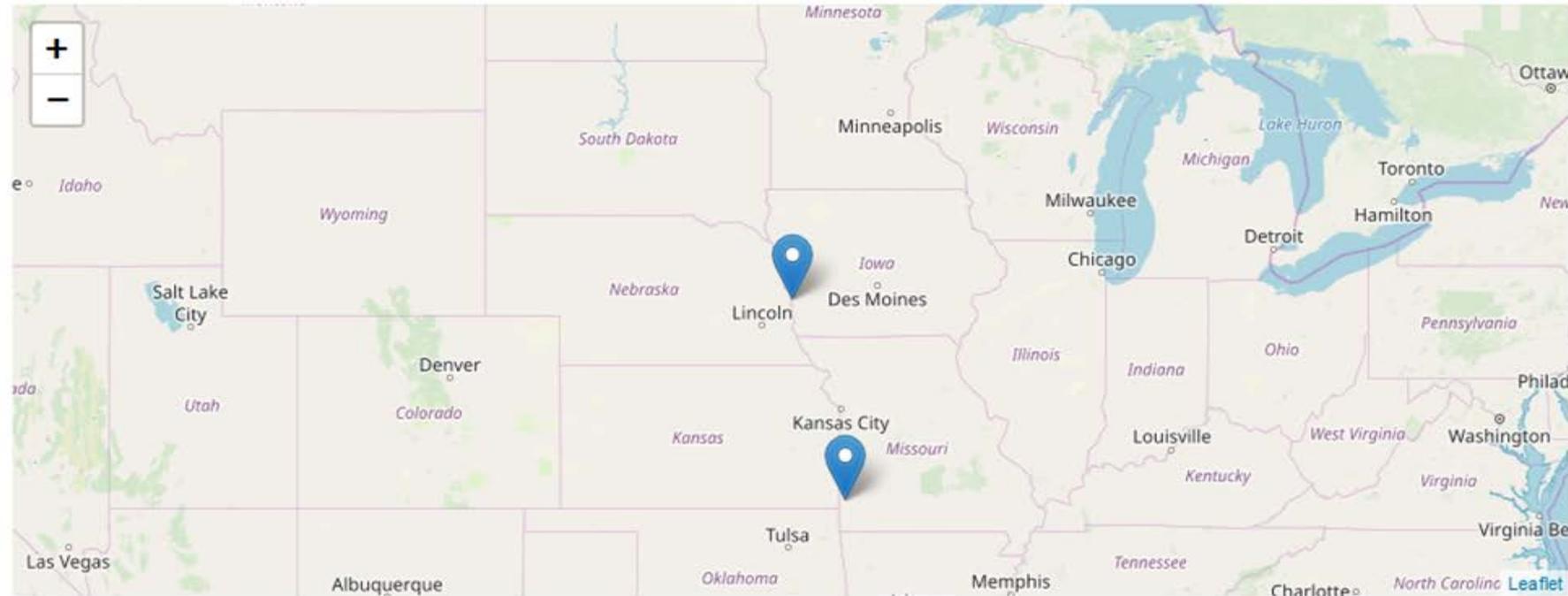
Projection Scenarios:
Higher Emissions (RCP 8.5)

30-Year Interval:
2071-2099

Find Sister City!

Powered by **ACIS**
NOAA Regional Climate Centers

By 2099 Omaha Eppley Airfield's spring average temperature will be similar to Joplin Regional Airport, MO



Omaha Eppley Airfield, NE

Current Normal: 51.2F

Projected Normal (2071-2099) : 57.8F

Joplin Regional Airport, MO

Current Normal: 58.1F

Climate4Cities: Sister City Tool Tutorial

Select State:

-- Select State --

-- Select State --

Colorado

Iowa

Kansas

Minnesota

Missouri

Montana

Nebraska

North Dakota

South Dakota

Wyoming

2021 2020

Find Sister City!

Powered by  ACIS
NOAA Regional Climate Centers

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

Climate4Cities: Sister City Tool Tutorial

Select State:
Nebraska

Select Location:
AGATE 3 E
AGATE 3 E
AINSWORTH
ANSELMO 2 SE
ARTHUR
ASHLAND NO 2
ATKINSON 3SW
AUBURN 5 ESE
AURORA
BEAVER CITY
BERTRAND
BIG SPRINGS
BLOOMFIELD
BLUE HILL 4 SW
BRADSHAW
BRIDGEPORT
BROKEN BOW 2 W
BRUNING
BUTTE
CANADAY STEAM PLANT
CLAY CENTER 6 ESE

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

Climate4Cities: Sister City Tool Tutorial

Select State:
Nebraska

Select Location:
OMAHA EPPLEY AIRFIELD

Select Variable:
--Variables--
Average Temperature
Maximum Temperature
Minimum Temperature
Precipitation

30-Year Interval:
2021-2050

Find Sister City!

Powered by

NOAA Regional Climate Centers

1. Choose your state. This will populate the “Select Location” list.
2. Select your location.
3. Select your variable.

Climate4Cities: Sister City Tool Tutorial

Select State:
Nebraska

Select Location:
OMAHA EPPLEY AIRFIELD

Select Variable:
Average Temperature

Select Timeframe:
Spring
Spring
Summer
Fall
Winter
Annual

Find Sister City!

Powered by

NOAA Regional Climate Centers

1. Choose your state. This will populate the “Select Location” list.
2. Select your location.
3. Select your variable.
4. Select your timeframe.

Climate4Cities: Sister City Tool Tutorial

Select State:
Nebraska

Select Location:
OMAHA EPPLEY AIRFIELD

Select Variable:
Average Temperature

Select Timeframe:
Spring

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

Find Sister City!

Powered by
ACIS
NOAA Regional Climate Centers

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

Climate4Cities: Sister City Tool Tutorial

Select State:
Nebraska

Select Location:
OMAHA EPPLEY AIRFIELD

Select Variable:
Average Temperature

Select Timeframe:
Spring

Projection Scenarios:
Higher Emissions (RCP 8.5)

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

NOAA Regional Climate Centers

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

Climate4Cities: Sister City Tool Tutorial

Select State:
Nebraska

Select Location:
OMAHA EPPLEY AIRFIELD

Select Variable:
Average Temperature

Select Timeframe:
Spring

Projection Scenarios:
Higher Emissions (RCP 8.5)

30-Year Interval:
2071-2099

Find Sister City!

Powered by

NOAA Regional Climate Centers

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

Climate4Cities: Sister City Tool Tutorial

Your results will be displayed to the right of the menu.

Select State:
Nebraska

Select Location:
OMAHA EPPLEY AIRFIELD

Select Variable:
Average Temperature

Select Timeframe:
Spring

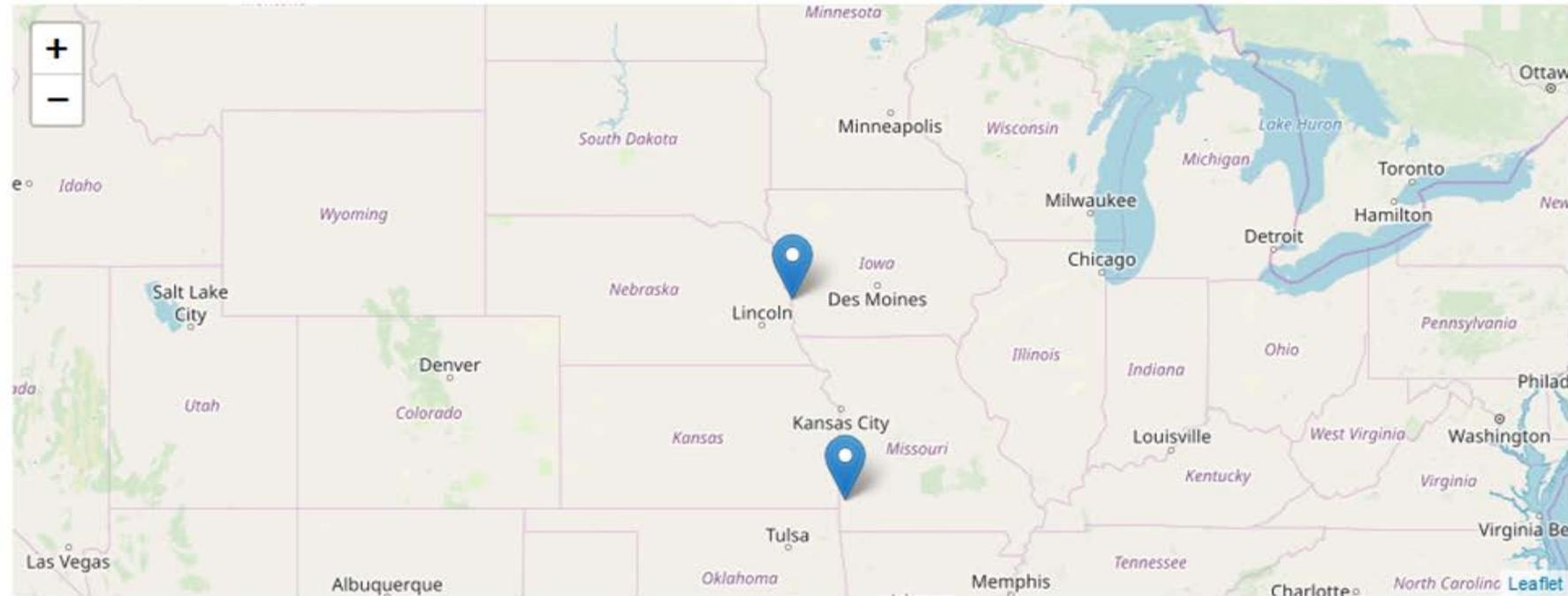
Projection Scenarios:
Higher Emissions (RCP 8.5)

30-Year Interval:
2071-2099

Find Sister City!

Powered by **ACIS**
NOAA Regional Climate Centers

By 2099 Omaha Eppley Airfield's spring average temperature will be similar to Joplin Regional Airport, MO



Omaha Eppley Airfield, NE

Current Normal: 51.2F

Projected Normal (2071-2099) : 57.8F

Joplin Regional Airport, MO

Current Normal: 58.1F

Climate4Cities: Sister City Tool Tutorial

Your current and future normals are displayed below the map.

Select State:
Nebraska

Select Location:
OMAHA EPPLEY AIRFIELD

Select Variable:
Average Temperature

Select Timeframe:
Spring

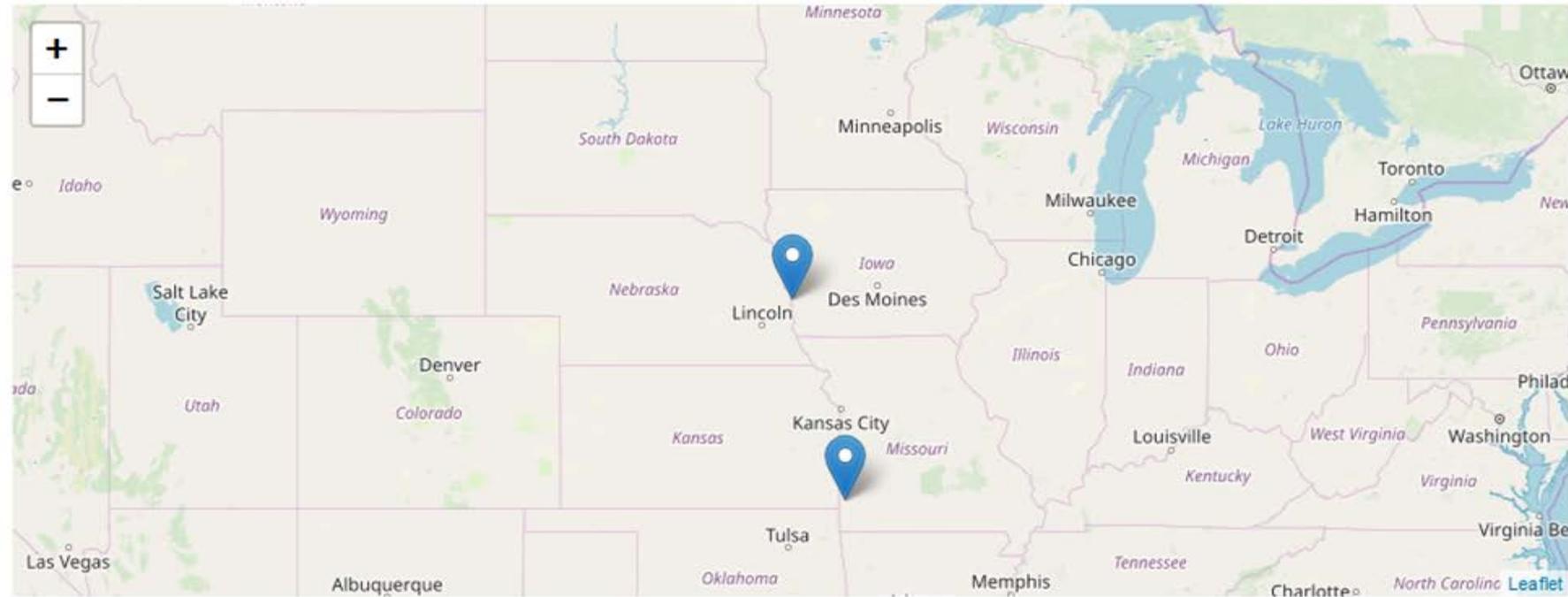
Projection Scenarios:
Higher Emissions (RCP 8.5)

30-Year Interval:
2071-2099

Find Sister City!

Powered by
ACIS
NOAA Regional Climate Centers

By 2099 Omaha Eppley Airfield's spring average temperature will be similar to Joplin Regional Airport, MO



Omaha Eppley Airfield, NE

Current Normal: 51.2F

Projected Normal (2071-2099) : 57.8F

Joplin Regional Airport, MO

Current Normal: 58.1F

Climate4Cities: Sister City Tool Tutorial

Your future normals are matched to a location that experiences similar conditions today.
This is your Sister City.

Select State:
Nebraska

Select Location:
OMAHA EPPLEY AIRFIELD

Select Variable:
Average Temperature

Select Timeframe:
Spring

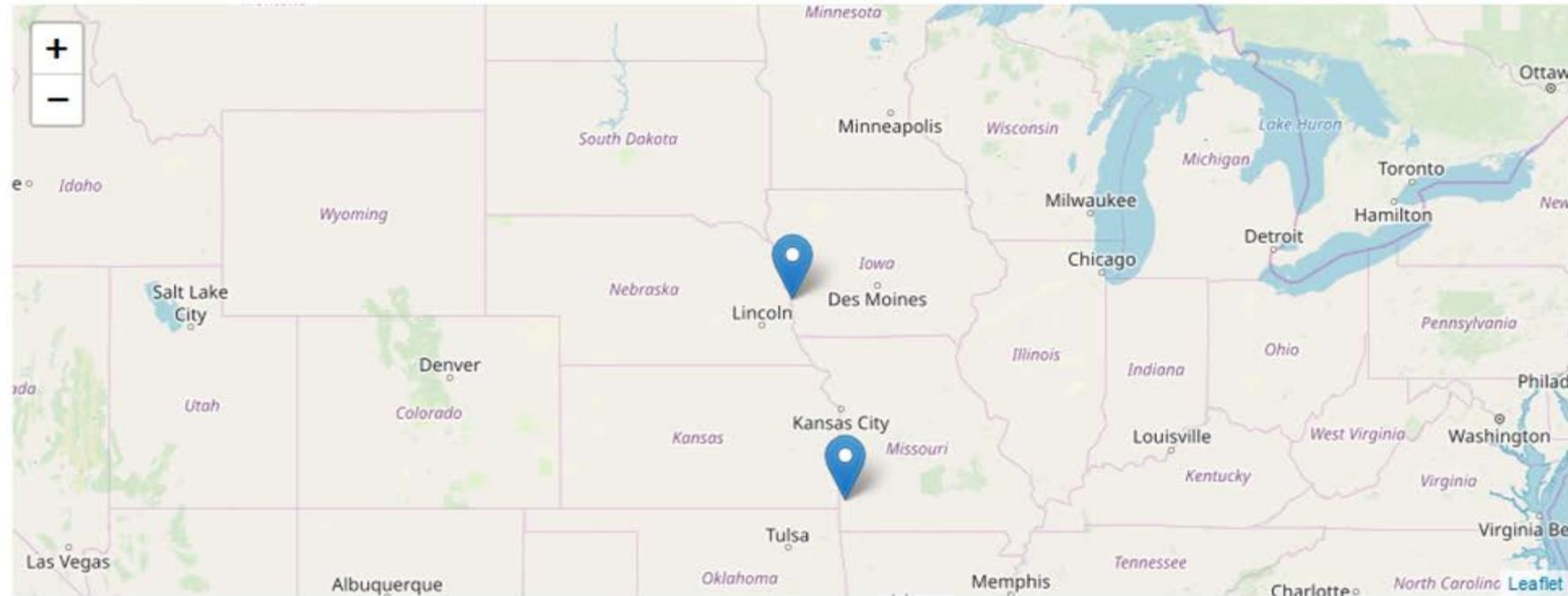
Projection Scenarios:
Higher Emissions (RCP 8.5)

30-Year Interval:
2071-2099

Find Sister City!



By 2099 Omaha Eppley Airfield's spring average temperature will be similar to Joplin Regional Airport, MO



Omaha Eppley Airfield, NE

Current Normal: 51.2F

Projected Normal (2071-2099) : 57.8F

Joplin Regional Airport, MO

Current Normal: 58.1F

Climate4Cities: Sister City Tool Tutorial

In this example, the spring average temperature in Omaha, by the end of the century, will be like what Joplin experiences today.

Select State:

Nebraska

Select Location:

OMAHA EPPLEY AIRFIELD

Select Variable:

Average Temperature

Select Timeframe:

Spring

Projection Scenarios:

Higher Emissions (RCP 8.5)

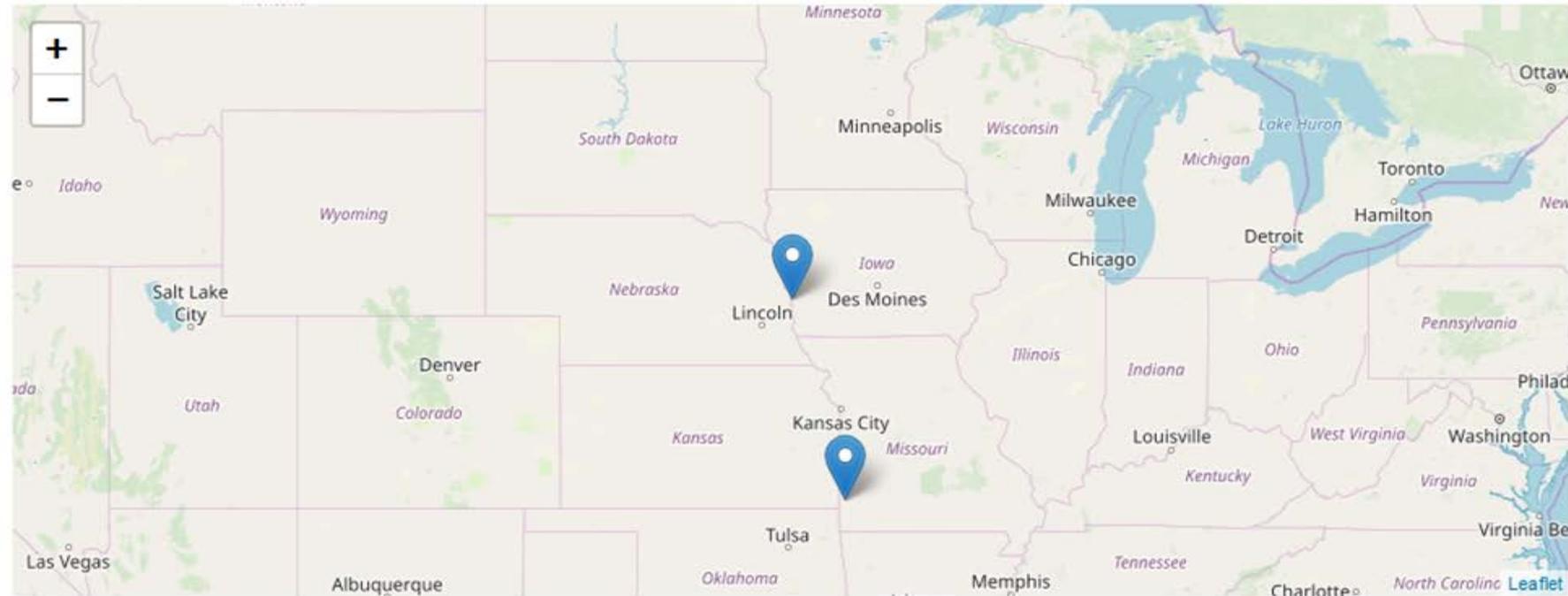
30-Year Interval:

2071-2099

Find Sister City!

Powered by
ACIS
NOAA Regional Climate Centers

By 2099 Omaha Eppley Airfield's spring average temperature will be similar to Joplin Regional Airport, MO



Omaha Eppley Airfield, NE

Current Normal: 51.2F

Projected Normal (2071-2099) : 57.8F

Joplin Regional Airport, MO

Current Normal: 58.1F

Climate4Cities: Sister City 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:

