

Climate4Cities: Historical Climate Data and Trends Tool

- The Historical Climate Data and Trends Tool was developed so that you can easily explore current climate trends at locations all across the Missouri River Basin states. With this tool, you can focus on one location or compare two locations at the same time.
- Over 800 stations have been pre-selected to choose from in order to provide locations with the most complete, long-term records available.
- We hope that this tool can help you understand more about your city's changing climate.
- In this tutorial, you will see step-by-step instructions for using the Climate4Cities' Historical Climate Data and Trends Tool, which can be accessed here: <https://hprcc.unl.edu/climate4cities/historical.php>.

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Climate4Cities: Historical Climate Data and Trends Tool Tutorial

On the left hand side of the screen, you will make a number of selections that will help you explore historical trends. On the right hand side of the screen, your results will be displayed.

Select State:
Kansas

Select Location:
WICHITA DWIGHT D. EISENHOWER NATION

Select Variable:
Average Temperature

Select Timeframe:
Annual

Enter Year Range:
1969 to 2018

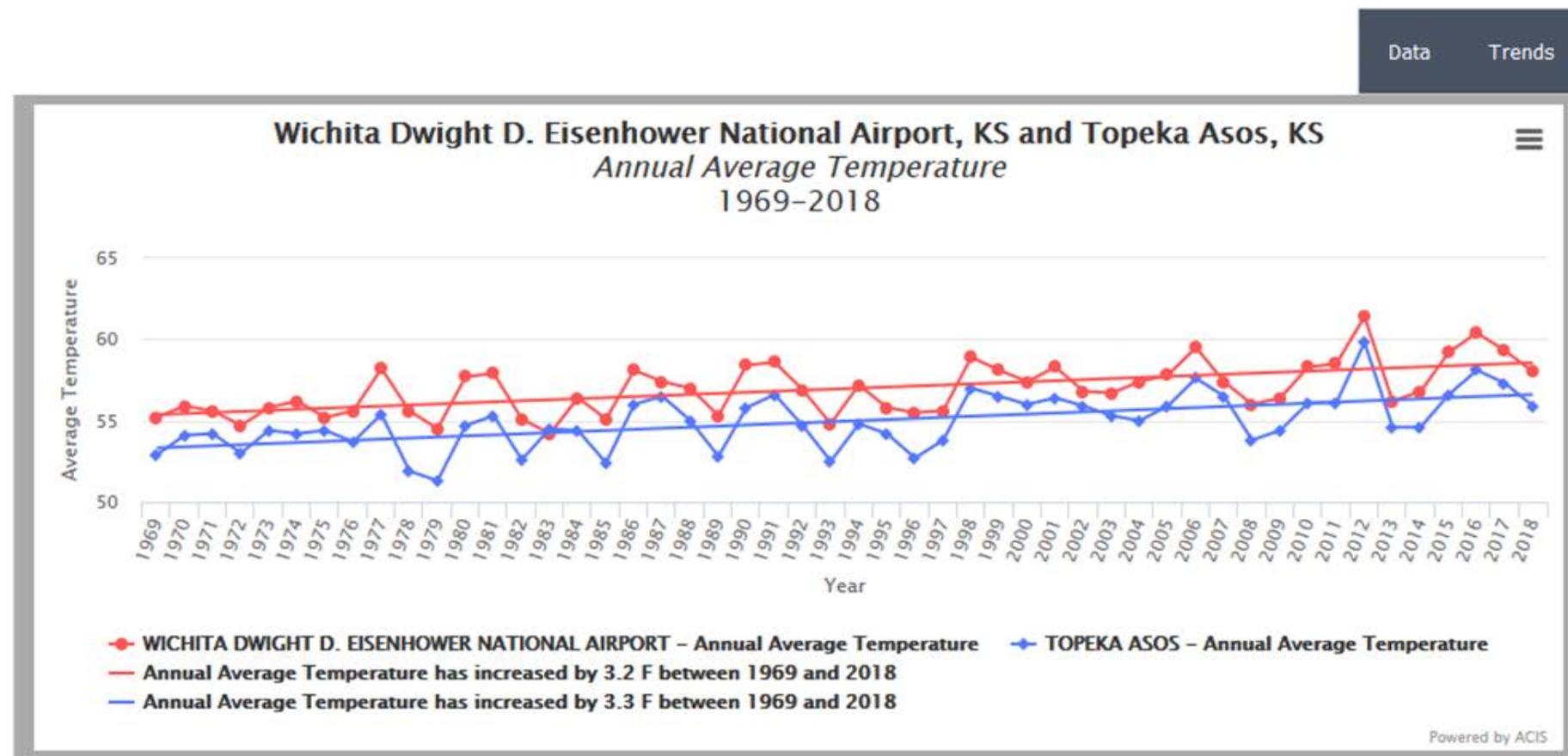
Trend Line

Compare to another location

Select State:
Kansas

Select Second Location:
TOPEKA ASOS

Get Data and Trends!



Climate4Cities: Historical Climate Data and Trends Tool Tutorial

Select State:

-- Select State --

-- Select State --

Colorado

Iowa

Kansas

Minnesota

Missouri

Montana

Nebraska

North Dakota

South Dakota

Wyoming

Compare to another location

Get Data and Trends!

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Climate Thresholds [?](#)

--Category--

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

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Select State:
Kansas

Select Location:
CONCORDIA ASOS

- ABILENE
- ARKANSAS CITY
- ASHLAND
- ATCHISON
- ATLANTA
- AXTELL
- BARNARD 15
- BELLEVILLE
- BELOIT
- BISON 3NW
- BLUE RAPIDS
- BONNER SPRINGS
- BROOKVILLE
- BUCKLIN 4 SE
- BURDICK (DIAMOND SPRINGS)
- CALDWELL
- CASSODAY 25E
- CAWKER CITY
- CENTRALIA
- CHANUTE MARTIN JOHNSON AP

Climate Thresholds [?](#)
--Category--

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

Climate4Cities: Historical Climate Data and Trends Tool Tutorial

Select State:
Kansas

Select Location:
WICHITA DWIGHT D. EISENHOWER NATIONAL AIRPOR

Select Variable:
Average Temperature

--Variables--

- Average Temperature
- Maximum Temperature
- Minimum Temperature
- Precipitation
- Snowfall
- First and Last Freeze Dates
- 3-Day Maximum Temperature
- 3-Day Minimum Temperature
- Days Precipitation ≥ 1.25 "
- Days Precipitation ≥ 4.00 "
- Amount of precipitation in wettest day
- Amount of precipitation in wettest 5-days
- Amount of precipitation in wettest 15-days
- Days Snowfall ≥ 3.0 "
- Days Snowfall ≥ 6.0 "
- Days Snowfall ≥ 12.0 "
- Snowfall in Heaviest 3-days

Climate Thresholds [?](#)

--Category--

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

Climate4Cities: Historical Climate Data and Trends Tool Tutorial

Select State:
Kansas

Select Location:
WICHITA DWIGHT D. EISENHOWER NATIONAL AIRPOR

Select Variable:
Average Temperature

Select Timeframe:
Spring (Mar, Apr, May)
Spring (Mar, Apr, May)
Summer (Jun, Jul, Aug)
Fall (Sep, Oct, Nov)
Winter (Dec, Jan, Feb)
Annual

Compare to another location

Get Data and Trends!

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

Climate4Cities: Historical Climate Data and Trends Tool Tutorial

Select State:
Kansas

Select Location:
WICHITA DWIGHT D. EISENHOWER NATIONAL AIRPOR

Select Variable:
Average Temperature

Select Timeframe:
Annual

Enter Year Range [?](#)
1969 to 2018

Trend Line

Compare to another location

Get Data and Trends!

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Climate Thresholds [?](#)
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1. Choose your state. This will populate the “Select Location” list.
2. Select your location.
3. Select your variable.
4. Select your timeframe.
5. Enter your start and end dates.

Climate4Cities: Historical Climate Data and Trends Tool Tutorial

Select State:
Kansas

Select Location:
WICHITA DWIGHT D. EISENHOWER NATIONAL AIRPOR

Select Variable:
Average Temperature

Select Timeframe:
Annual

Enter Year Range: 1969 to 2018

Trend Line

Compare to another location

Get Data and Trends!

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Climate Thresholds 
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1. Choose your state. This will populate the “Select Location” list.
2. Select your location.
3. Select your variable.
4. Select your timeframe.
5. Enter your start and end dates.
6. Press the “Trend Line” button, if you would like to add a trend line to your graph.

Climate4Cities: Historical Climate Data and Trends Tool Tutorial

Select State:
Kansas

Select Location:
WICHITA DWIGHT D. EISENHOWER NATIONAL AIRPOR

Select Variable:
Average Temperature

Select Timeframe:
Annual

Enter Year Range: 1969 to 2018

Trend Line

Compare to another location

Get Data and Trends!

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Climate Thresholds
--Category--

1. Choose your state. This will populate the “Select Location” list.
2. Select your location.
3. Select your variable.
4. Select your timeframe.
5. Enter your start and end dates.
6. Press the “Trend Line” button, if you would like to add a trend line to your graph.
7. Once you have finished making your selections, press the “Get Data and Trends!” button.

Climate4Cities: Historical Climate Data and Trends Tool Tutorial

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

Select State:
Kansas

Select Location:
WICHITA DWIGHT D. EISENHOWER NATIONAL AIRPOR

Select Variable:
Average Temperature

Select Timeframe:
Annual

Enter Year Range:
1969 to 2018

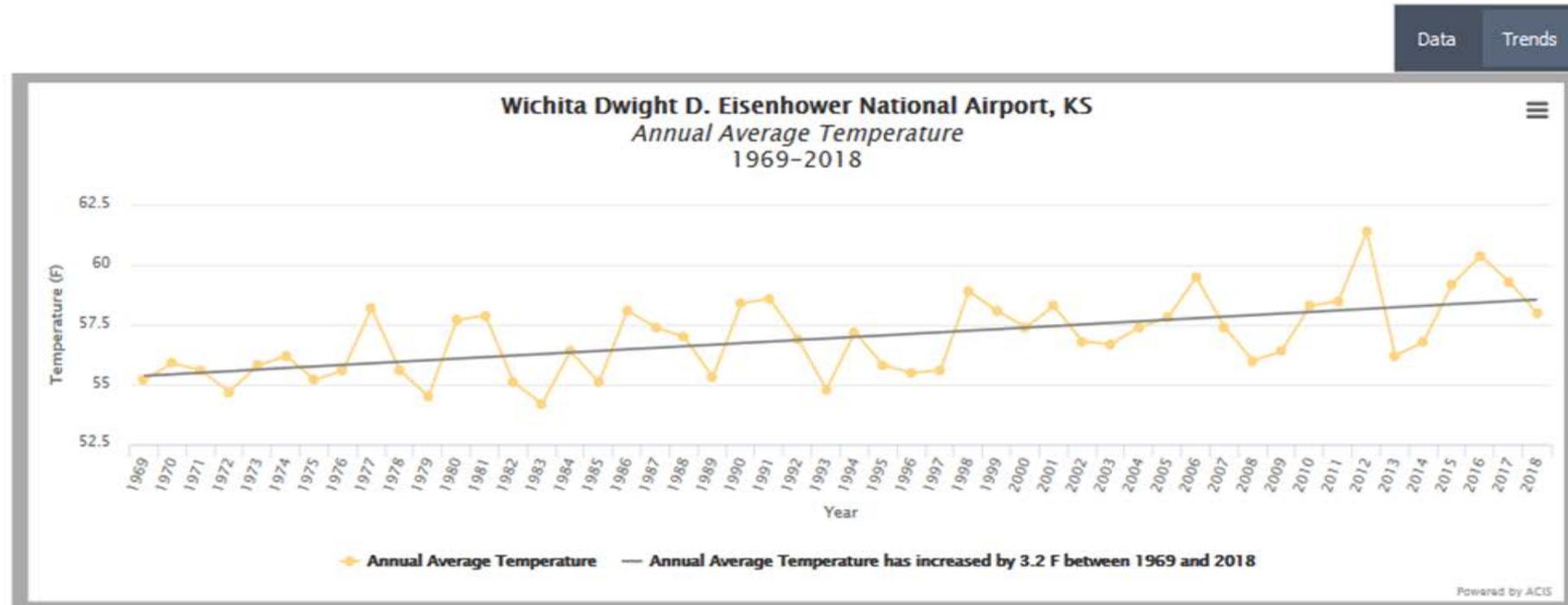
Trend Line

Compare to another location

Get Data and Trends!

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Climate4Cities: Historical Climate Data and Trends Tool Tutorial

If you have selected the "Trend Line" button, and no trend is displayed, there may be insufficient data to calculate the trend reliably.

Select State:
Kansas

Select Location:
WICHITA DWIGHT D. EISENHOWER NATIONAL AIRPOR

Select Variable:
Average Temperature

Select Timeframe:
Annual

Enter Year Range:
1969 to 2018

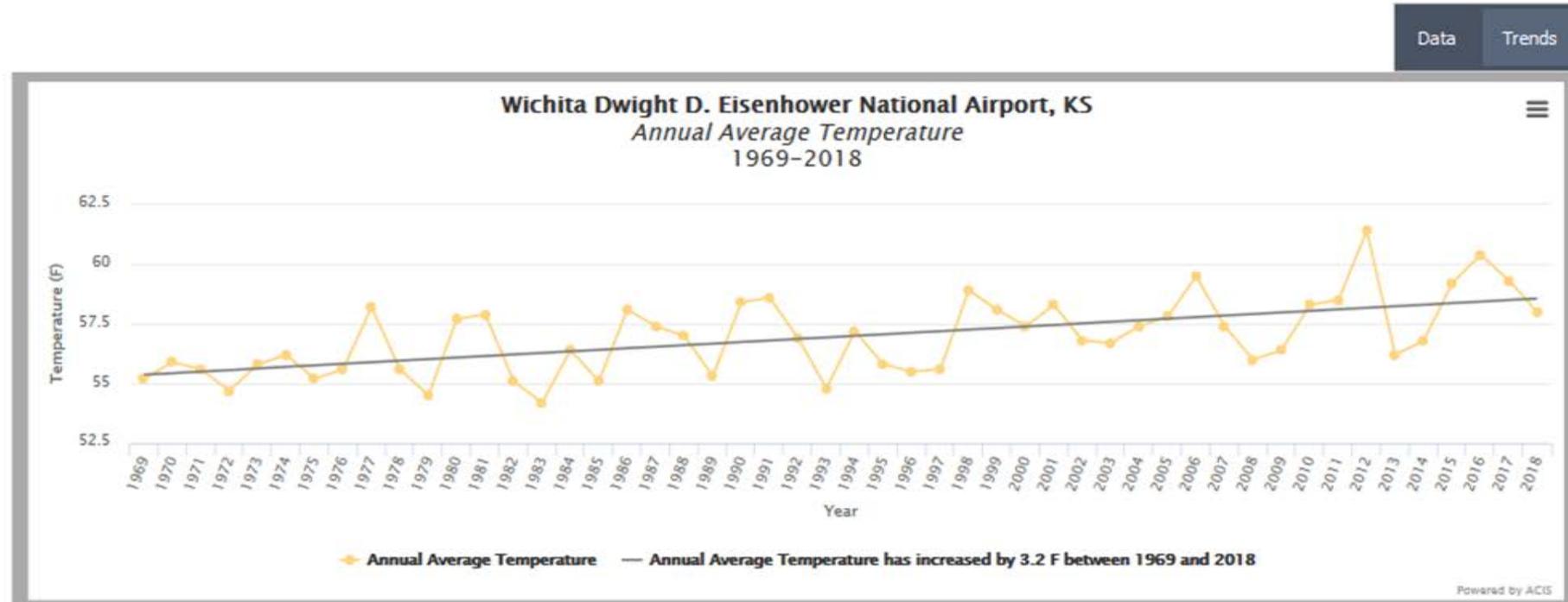
Trend Line

Compare to another location

Get Data and Trends!

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Climate Thresholds:
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Climate4Cities: Historical Climate Data and Trends Tool Tutorial

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

Select State:
Kansas

Select Location:
WICHITA DWIGHT D. EISENHOWER NATIONAL AIRPOR

Select Variable:
Average Temperature

Select Timeframe:
Annual

Enter Year Range:
1969 to 2018

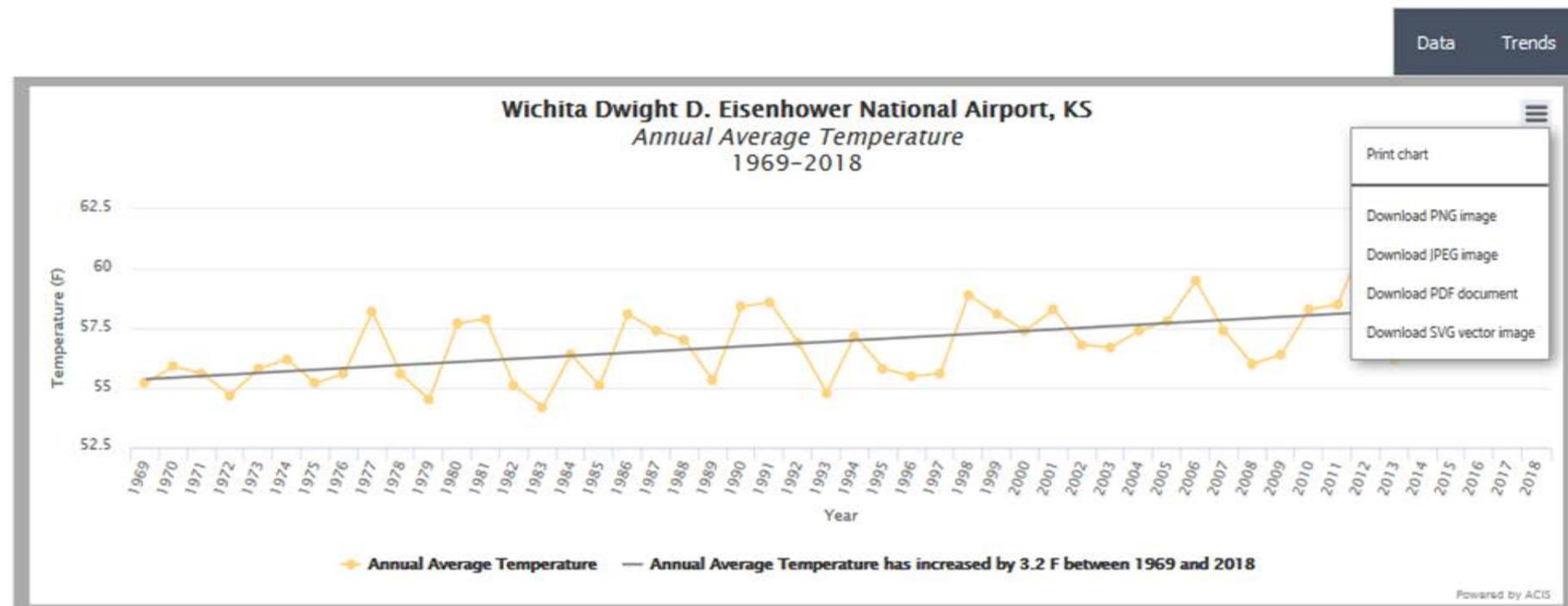
Trend Line

Compare to another location

Get Data and Trends!

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Climate Thresholds
--Category--



Climate4Cities: Historical Climate Data and Trends Tool Tutorial

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

Select State:
Kansas

Select Location:
WICHITA DWIGHT D. EISENHOWER NATIONAL AIRPOR

Select Variable:
Average Temperature

Select Timeframe:
Annual

Enter Year Range:
1969 to 2018

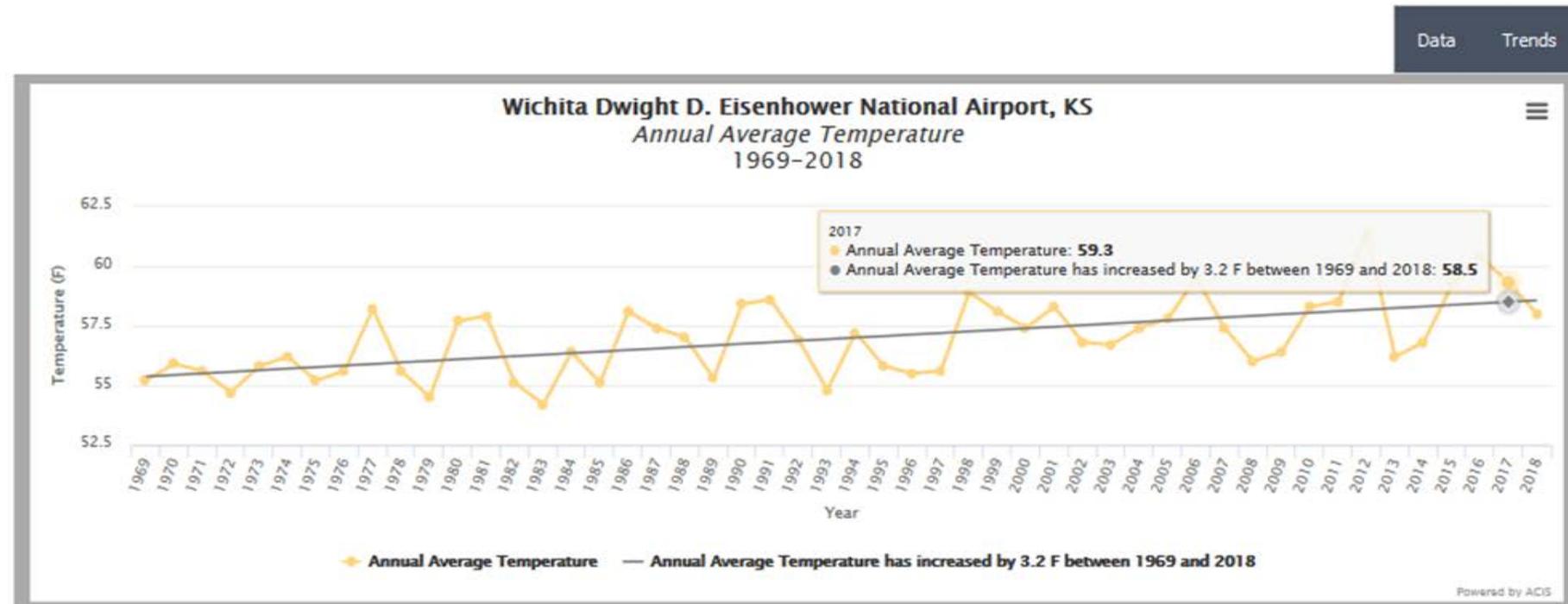
Trend Line

Compare to another location

Get Data and Trends!

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Climate Thresholds
--Category--



Climate4Cities: Historical Climate Data and Trends Tool Tutorial

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

Select State:
Kansas

Select Location:
WICHITA DWIGHT D. EISENHOWER NATIONAL AIRPOR

Select Variable:
Average Temperature

Select Timeframe:
Annual

Enter Year Range:
1969 to 2018

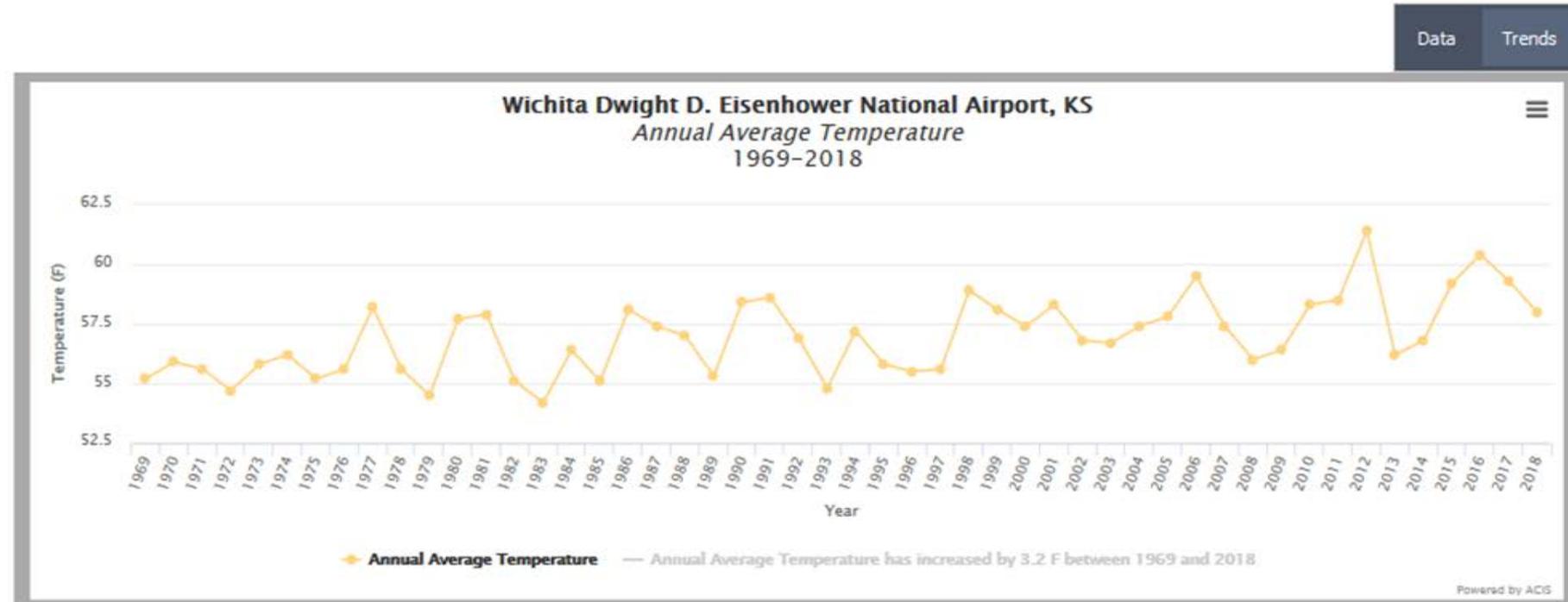
Trend Line

Compare to another location

Get Data and Trends!

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Climate Thresholds
--Category--



Climate4Cities: Historical Climate Data and Trends Tool Tutorial

Click on the Data tab to see and download the data (link for download at the bottom of the screen).

Select State:
Kansas

Select Location:
WICHITA DWIGHT D. EISENHOWER NATIONAL AIRPOR

Select Variable:
Average Temperature

Select Timeframe:
Annual

Enter Year Range: 1969 to 2018

Trend Line

Compare to another location

Get Data and Trends!

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Wichita Dwight D. Eisenhower National Airport 1969-2018

Year	Annual Average Temperature
1969	55.2
1970	55.9
1971	55.6
1972	54.7
1973	55.8
1974	56.2
1975	55.2
1976	55.6
1977	58.2
1978	55.6
1979	54.5
1980	57.7
1981	57.9
1982	55.1
1983	54.2
1984	56.4
1985	55.1

Data

Trends

Climate4Cities: Historical Climate Data and Trends Tool Tutorial

To go back to the graph, click on the Trends button.

Select State:
Kansas

Select Location:
WICHITA DWIGHT D. EISENHOWER NATIONAL AIRPOR

Select Variable:
Average Temperature

Select Timeframe:
Annual

Enter Year Range:
1969 to 2018

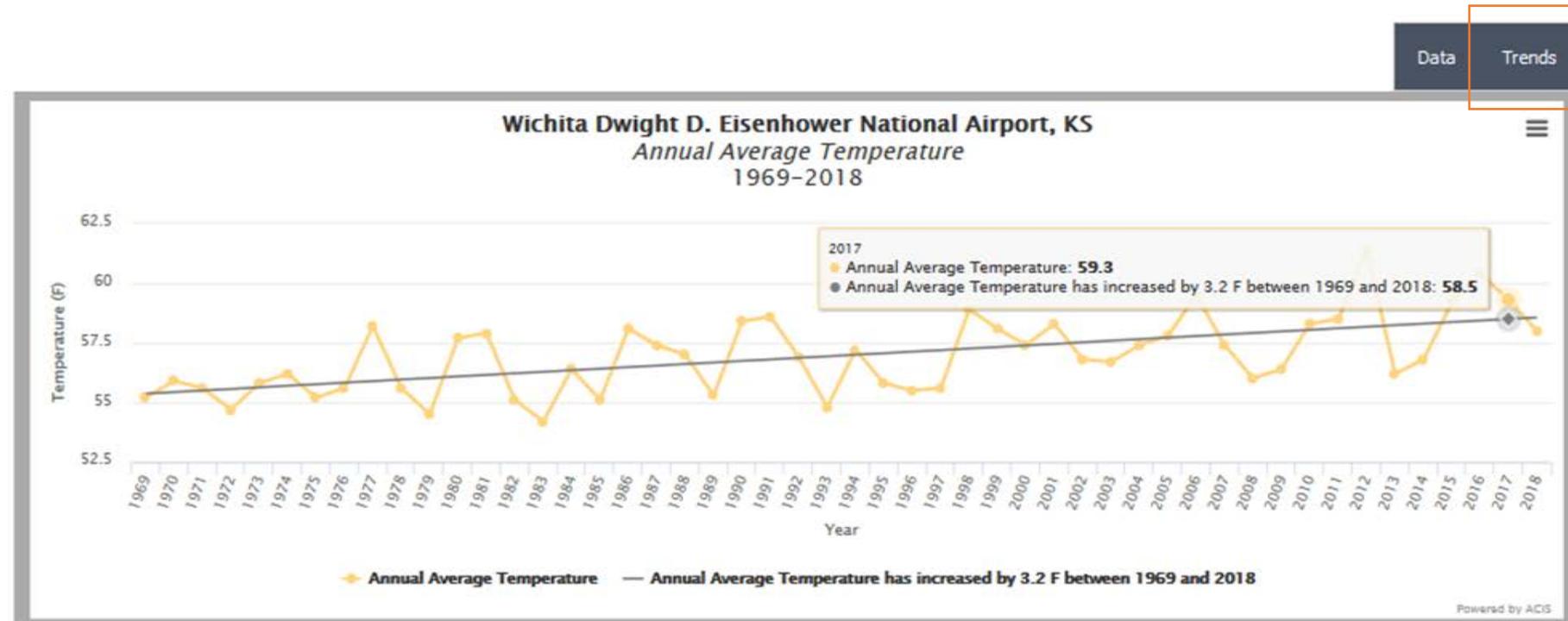
Trend Line

Compare to another location

Get Data and Trends!

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Climate Thresholds
--Category--



Climate4Cities: Historical Climate Data and Trends Tool Tutorial

Select State:
Kansas

Select Location:
WICHITA DWIGHT D. EISENHOWER NATIONAL AIRPOR

Select Variable:
Average Temperature

Select Timeframe:
Annual

Enter Year Range: to

Trend Line

Compare to another location

Select State:
-- Select State --

Select Second Location:
-- Second Location --

[Get Data and Trends!](#)

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8. Press the “Compare to another location” button, if you would like to add a second location to your graph.

Climate4Cities: Historical Climate Data and Trends Tool Tutorial

Select State:
Kansas

Select Location:
WICHITA DWIGHT D. EISENHOWER NATIONAL AIRPOR

Select Variable:
Average Temperature

Select Timeframe:
Annual

Enter Year Range: to

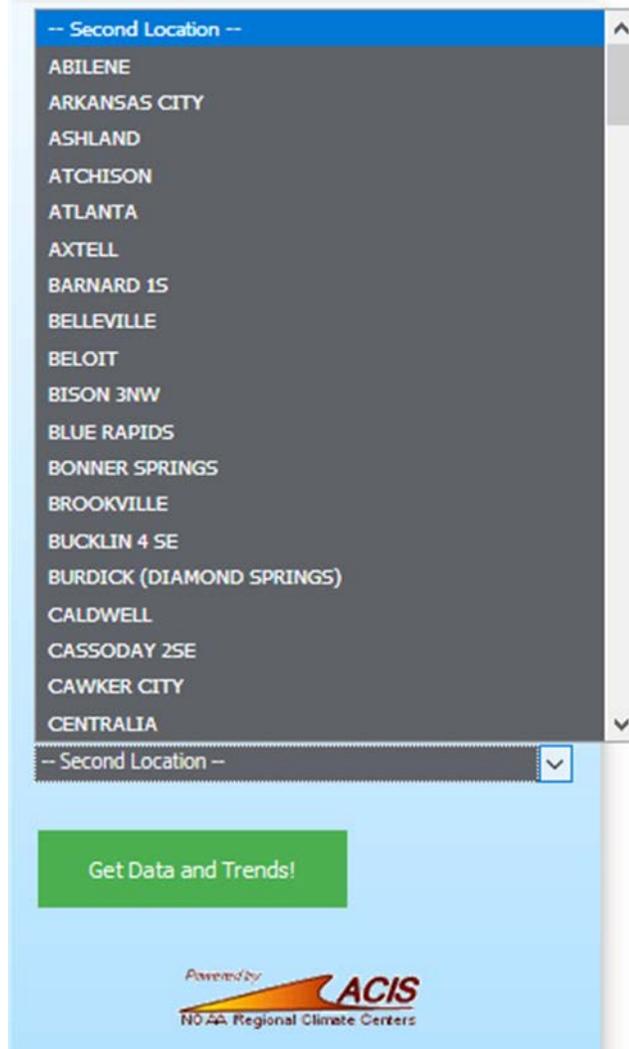
Trend Line

Compare to another location

Select State:
-- Select State --
-- Select State --
Colorado
Iowa
Kansas
Minnesota
Missouri
Montana
Nebraska
North Dakota
South Dakota

8. Press the “Compare to another location” button, if you would like to add a second location to your graph.
9. Choose your state. This will populate the “Select Location” list.

Climate4Cities: Historical Climate Data and Trends Tool Tutorial



8. Press the "Compare to another location" button, if you would like to add a second location to your graph.
9. Choose your state. This will populate the "Select Location" list.
10. Select your location.

Climate4Cities: Historical Climate Data and Trends Tool Tutorial

Select State:
Kansas

Select Location:
WICHITA DWIGHT D. EISENHOWER NATIONAL AIRPOR

Select Variable:
Average Temperature

Select Timeframe:
Annual

Enter Year Range: to

Trend Line

Compare to another location

Select State:
Kansas

Select Second Location:
TOPEKA ASOS

[Get Data and Trends!](#)

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8. Press the “Compare to another location” button, if you would like to add a second location to your graph.
9. Choose your state. This will populate the “Select Location” list.
10. Select your location.
11. Once you have finished making your selections, press the “Get Data and Trends!” button.

Climate4Cities: Historical Climate Data and Trends Tool Tutorial

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

Select State:
Kansas

Select Location:
WICHITA DWIGHT D. EISENHOWER NATIONAL AIRPOR

Select Variable:
Average Temperature

Select Timeframe:
Annual

Enter Year Range:
1969 to 2018

Trend Line

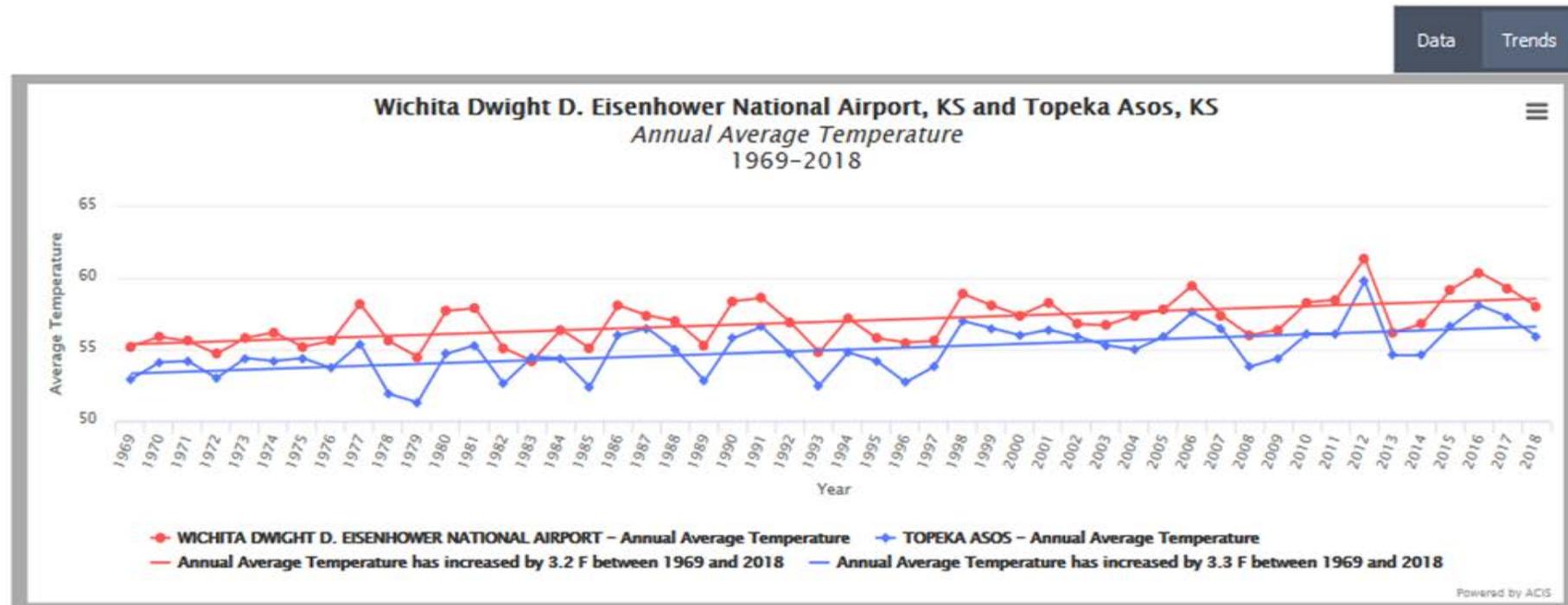
Compare to another location

Select State:
Kansas

Select Second Location:
TOPEKA ASOS

Get Data and Trends!

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Climate4Cities: Historical Climate Data and Trends Tool Tutorial

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

Select State:
Kansas

Select Location:
WICHITA DWIGHT D. EISENHOWER NATIONAL AIRPOR

Select Variable:
Average Temperature

Select Timeframe:
Annual

Enter Year Range:
1969 to 2018

Trend Line

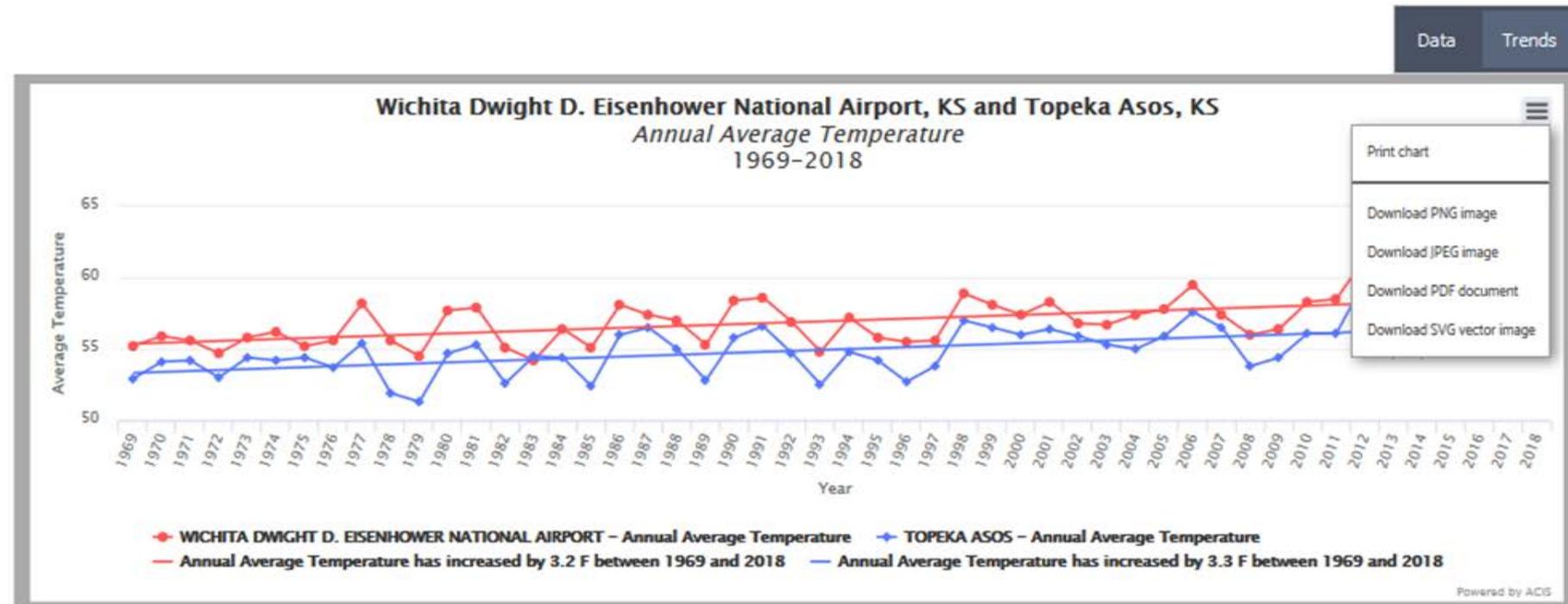
Compare to another location

Select State:
Kansas

Select Second Location:
TOPEKA ASOS

Get Data and Trends!

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Climate4Cities: Historical Climate Data and Trends Tool Tutorial

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

Select State:
Kansas

Select Location:
WICHITA DWIGHT D. EISENHOWER NATIONAL AIRPOR

Select Variable:
Average Temperature

Select Timeframe:
Annual

Enter Year Range:
1969 to 2018

Trend Line

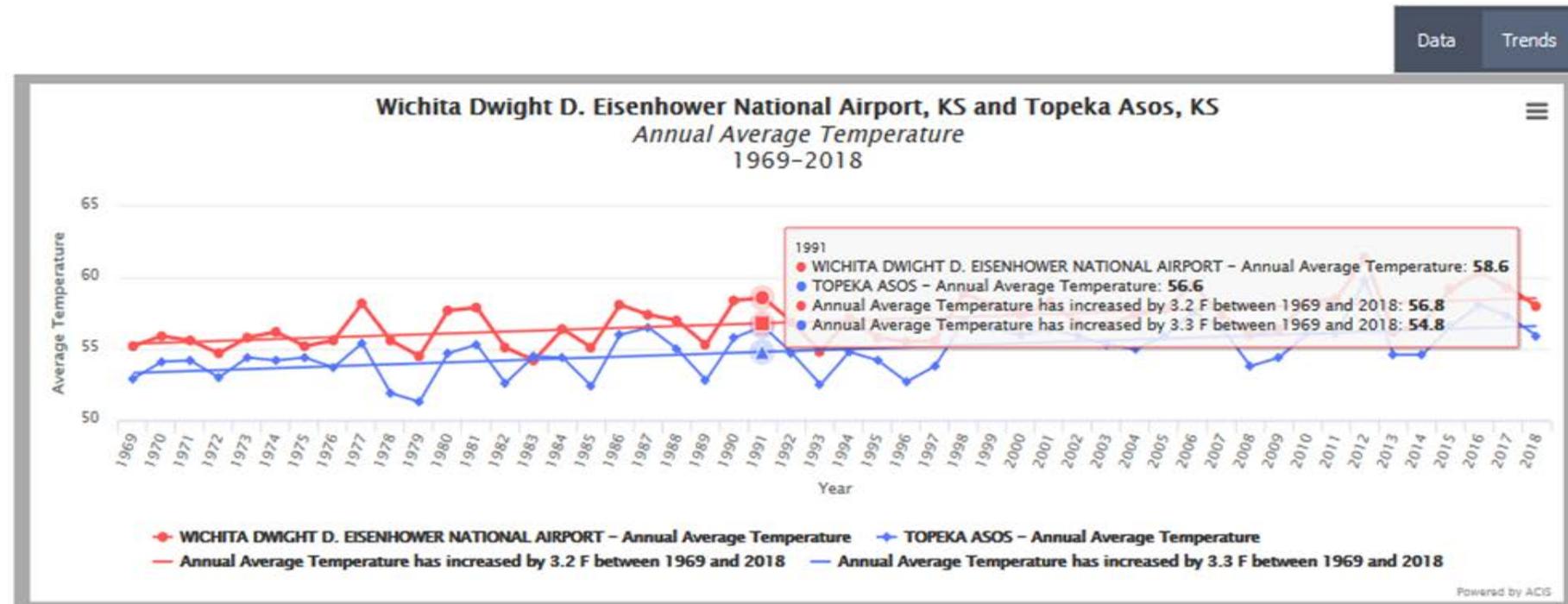
Compare to another location

Select State:
Kansas

Select Second Location:
TOPEKA ASOS

Get Data and Trends!

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Climate4Cities: Historical Climate Data and Trends Tool Tutorial

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

Select State:
Kansas

Select Location:
WICHITA DWIGHT D. EISENHOWER NATIONAL AIRPOR

Select Variable:
Average Temperature

Select Timeframe:
Annual

Enter Year Range:
1969 to 2018

Trend Line

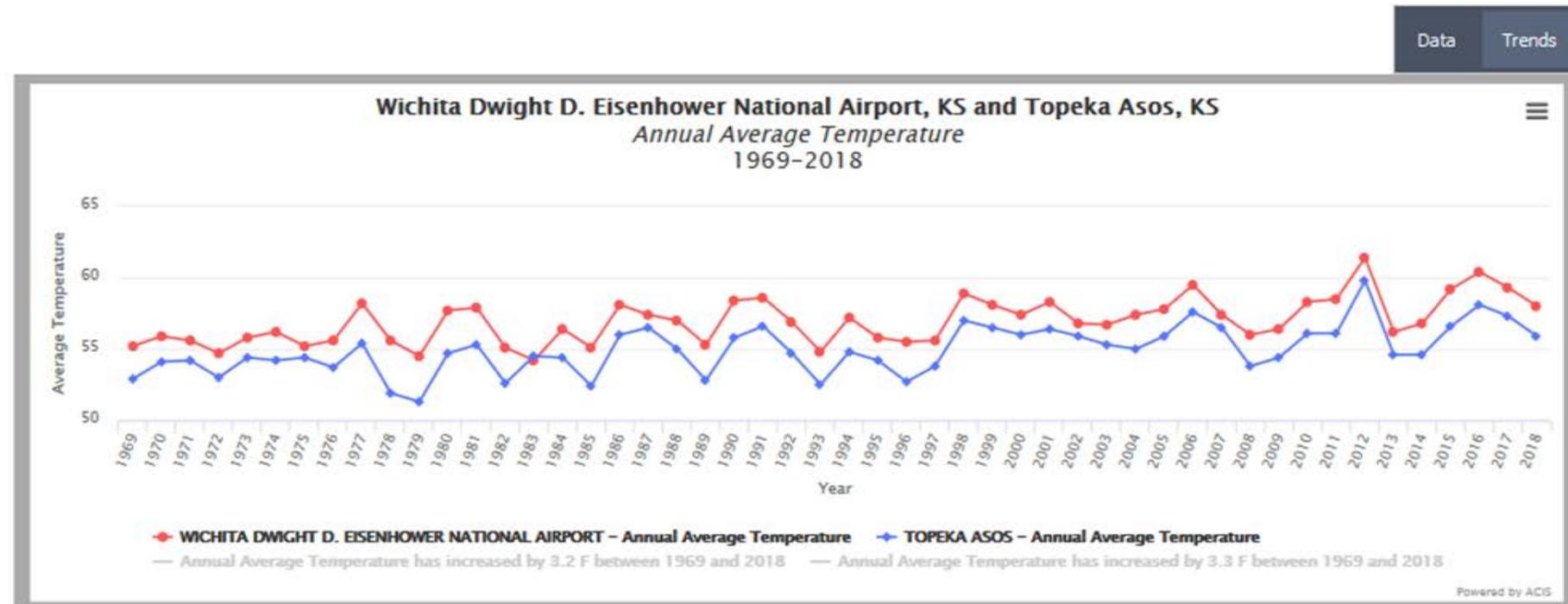
Compare to another location

Select State:
Kansas

Select Second Location:
TOPEKA ASOS

Get Data and Trends!

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Climate4Cities: Historical Climate Data and Trends Tool Tutorial

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

Select State:
Kansas

Select Location:
WICHITA DWIGHT D. EISENHOWER NATIONAL AIRPOR

Select Variable:
Average Temperature

Select Timeframe:
Annual

Enter Year Range:
1969 to 2018

Trend Line

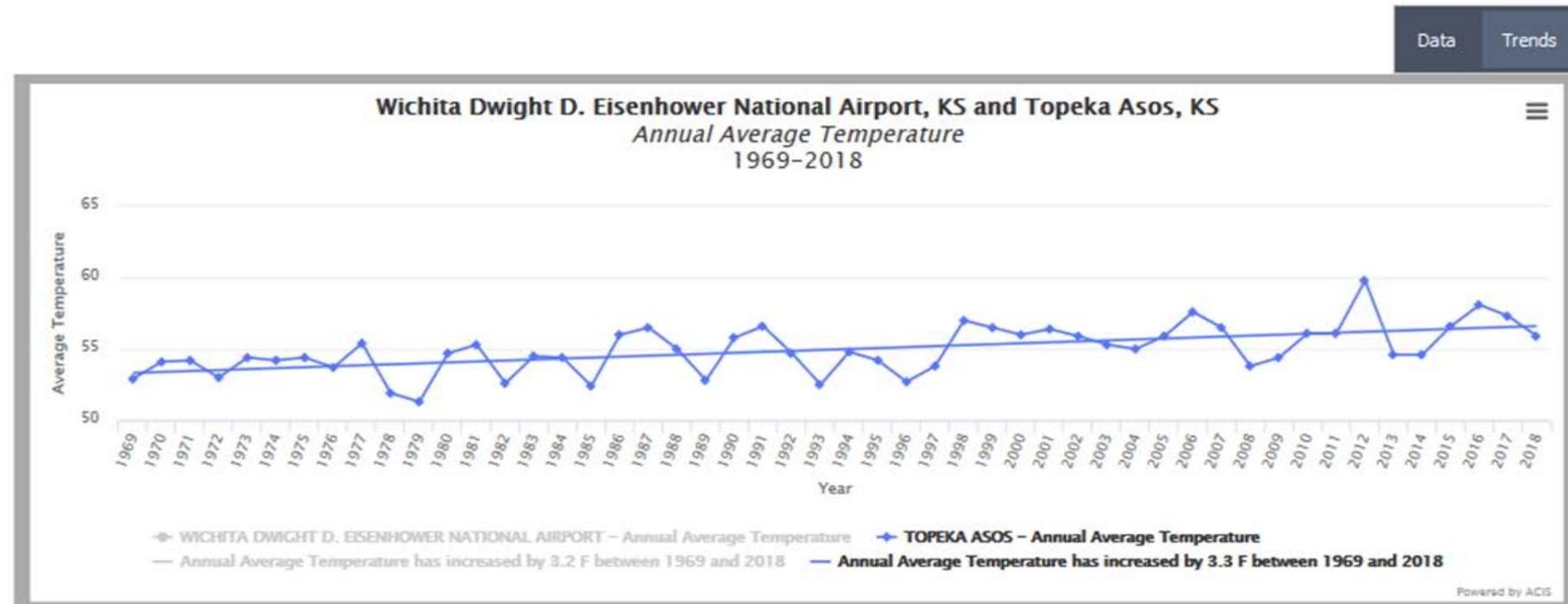
Compare to another location

Select State:
Kansas

Select Second Location:
TOPEKA ASOS

Get Data and Trends!

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Climate4Cities: Historical Climate Data and Trends Tool Tutorial

Click on the Data tab to see and download the data (link for download at the bottom of the screen).



Select State:
Kansas

Select Location:
WICHITA DWIGHT D. EISENHOWER NATIONAL AIRPOR

Select Variable:
Average Temperature

Select Timeframe:
Annual

Enter Year Range:
1969 to 2018

Trend Line

Compare to another location

Select State:
Kansas

Select Second Location:
TOPEKA ASOS

Get Data and Trends!

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Wichita Dwight D. Eisenhower National Airport and Topeka Asos
1969-2018

Year	WICHITA DWIGHT D. EISENHOWER NATIONAL AIRPORT	TOPEKA ASOS
1969	55.2	52.9
1970	55.9	54.1
1971	55.6	54.2
1972	54.7	53.0
1973	55.8	54.4
1974	56.2	54.2
1975	55.2	54.4
1976	55.6	53.7
1977	58.2	55.4
1978	55.6	51.9
1979	54.5	51.3
1980	57.7	54.7
1981	57.9	55.3
1982	55.1	52.6
1983	54.2	54.5
1984	56.4	54.4
1985	55.1	52.4

Climate4Cities: Historical Climate Data and Trends Tool Tutorial

To go back to the graph, click on the Trends button.

Select State:
Kansas

Select Location:
WICHITA DWIGHT D. EISENHOWER NATIONAL AIRPOR

Select Variable:
Average Temperature

Select Timeframe:
Annual

Enter Year Range:
1969 to 2018

Trend Line

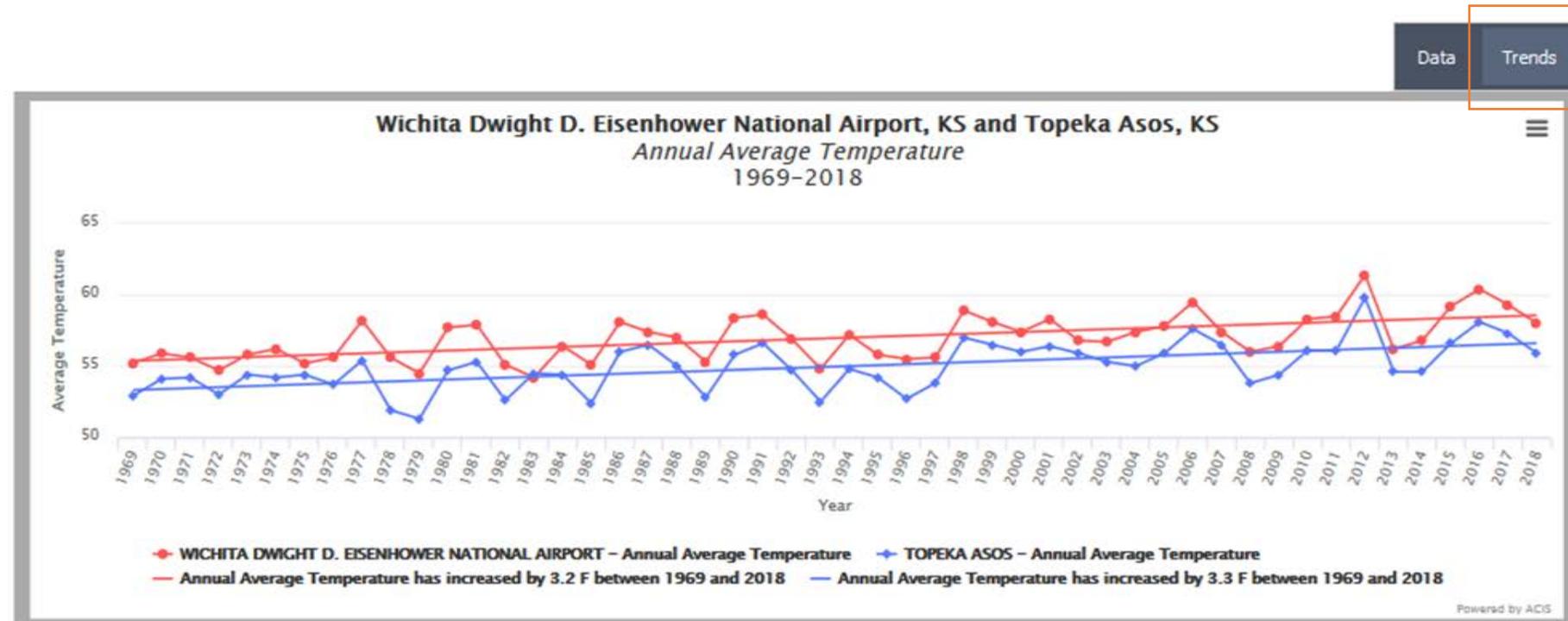
Compare to another location

Select State:
Kansas

Select Second Location:
TOPEKA ASOS

Get Data and Trends!

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Climate4Cities: Historical Climate Data and Trends 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:



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