Tale of Two Seasons

Name _____ Class _____

For this activity you will be using average and extreme temperature records from NOAA's Physical Sciences Laboratory located in Boulder, Colorado. For updated information, you can go to https://psl.noaa.gov/boulder/dailyrecords/.

Winter

December	
Record High	76°F, 1965
Normal High (average of each day average high)	45°F
Record Low	-24°F, 1990
Normal Low (average of each day average low)	22°F

January	
Record High	74°F, 1925
Normal High (average of each day average high)	44°F
Record Low	-33°F, 1930
Normal Low (average of each day average low)	20°F

February	
Record High	79°F, 1954
Normal High (average of each day average high)	46°F
Record Low	-28°F, 1936
Normal Low (average of each day average low)	22°F

Summer

June	
Record High	104°F, 1954
Normal High (average of each day average high)	80°F
Record Low	30°F, 1951
Normal Low (average of each day average low)	53°F

July	
Record High	104°F, 1954
Normal High (average of each day average high)	85°F
Record Low	40°F, 1921
Normal Low (average of each day average low)	59°F

| August	
Record High	102°F, 1936
Normal High (average of each day average high)	84°F
Record Low	37°F, 1910
Normal Low (average of each day average low)	58°F

Weather History

Want to look up weather events on a particular date? Visit this site https://www.weather.gov/bou/wxhistory, enter any date you want, and learn some weather history from the National Weather Service in Boulder.

Colorado Average Temperature
December
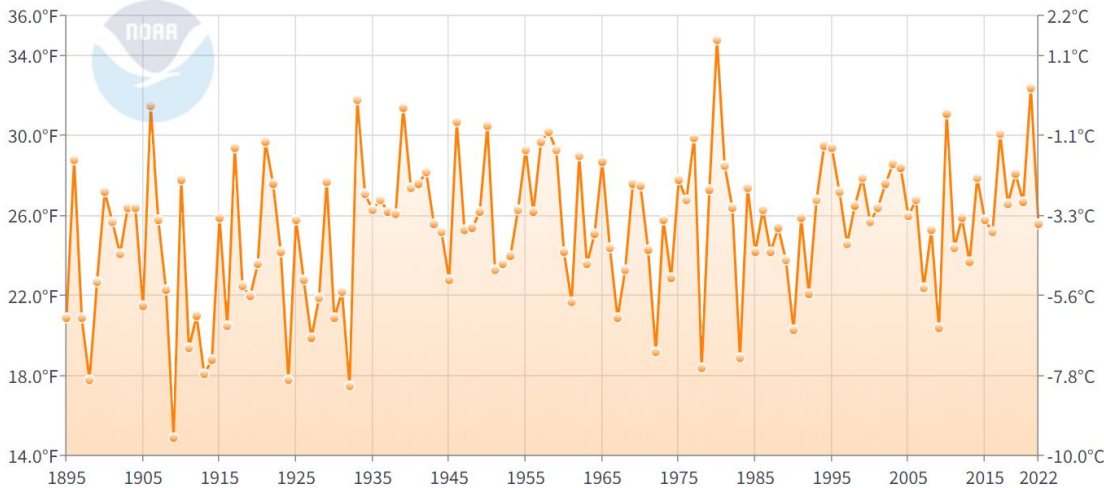
Winter

December

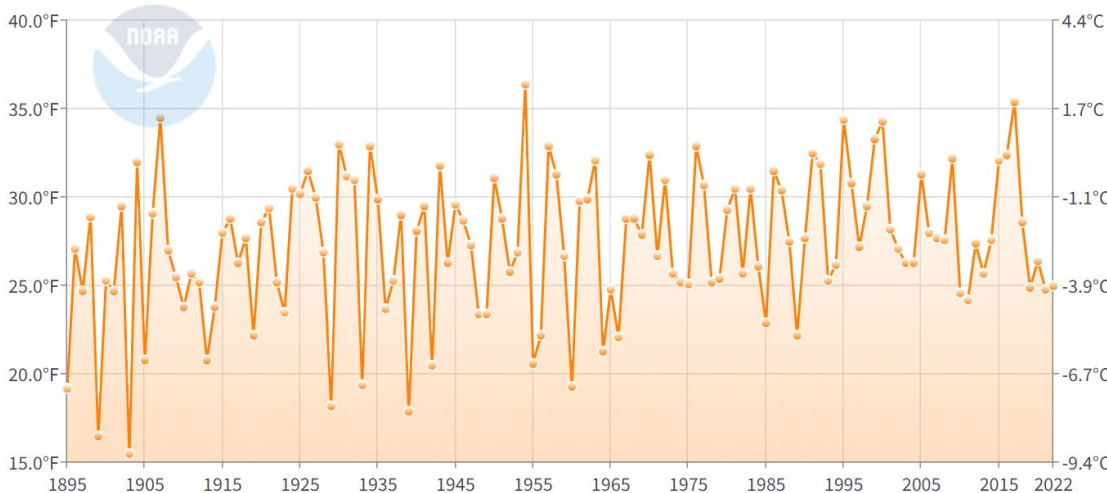| Which year had the coldest December?	Year:
	Temp:
Which year had the warmest December?	Year:
	Temp:

Colorado Average Temperature
January
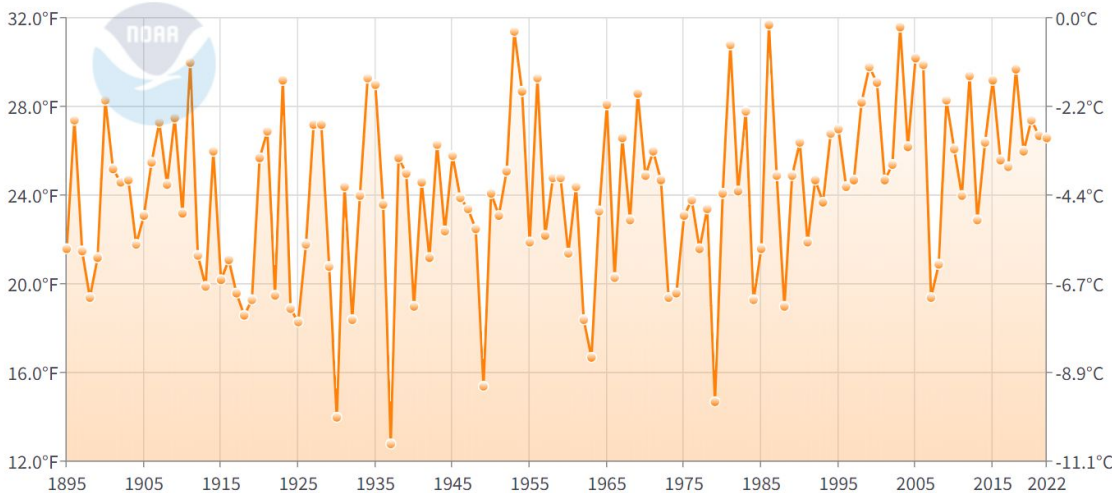
January

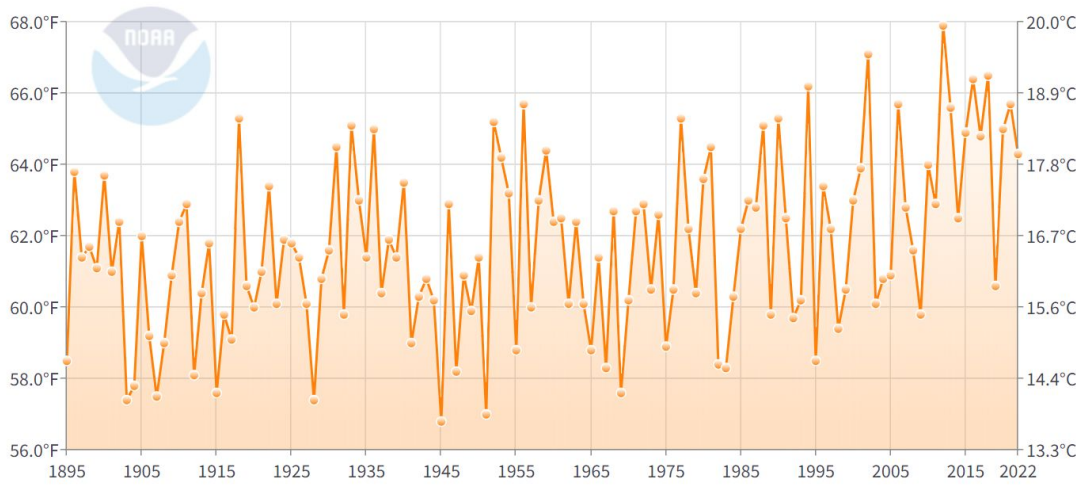| Which year had the coldest January?	Year:
	Temp:
Which year had the warmest January?	Year:
	Temp:

Colorado Average Temperature
February

February

Which year had the coldest February?	Year:
	Temp:
Which year had the warmest February?	Year:
	Temp:

Summer

Colorado Average Temperature
June

June	
Which year had the coldest June?	Year:
	Temp:
Which year had the warmest June?	Year:
	Temp:

Colorado Average Temperature
July

July	
Which year had the coldest July?	Year:
	Temp:
Which year had the warmest July?	Year:
	Temp:

Colorado Average Temperature
August
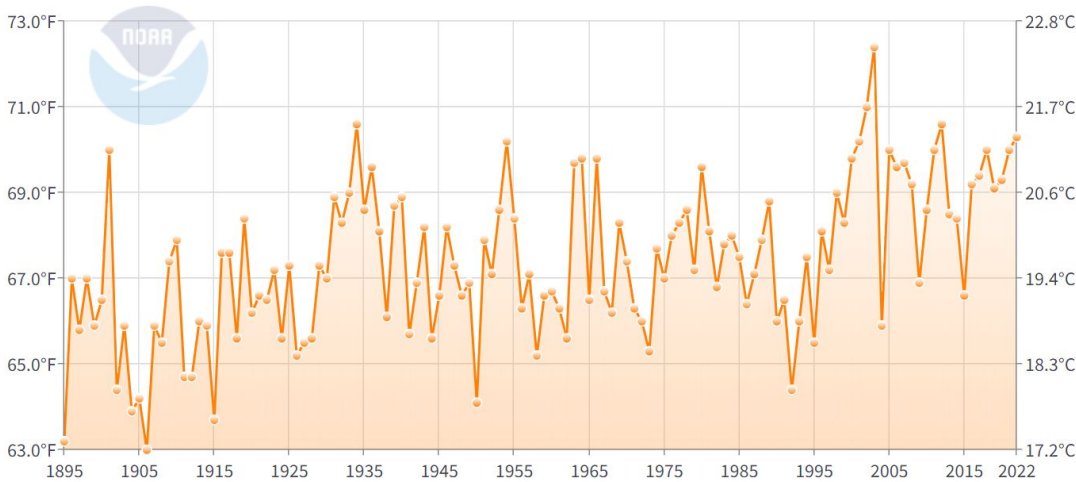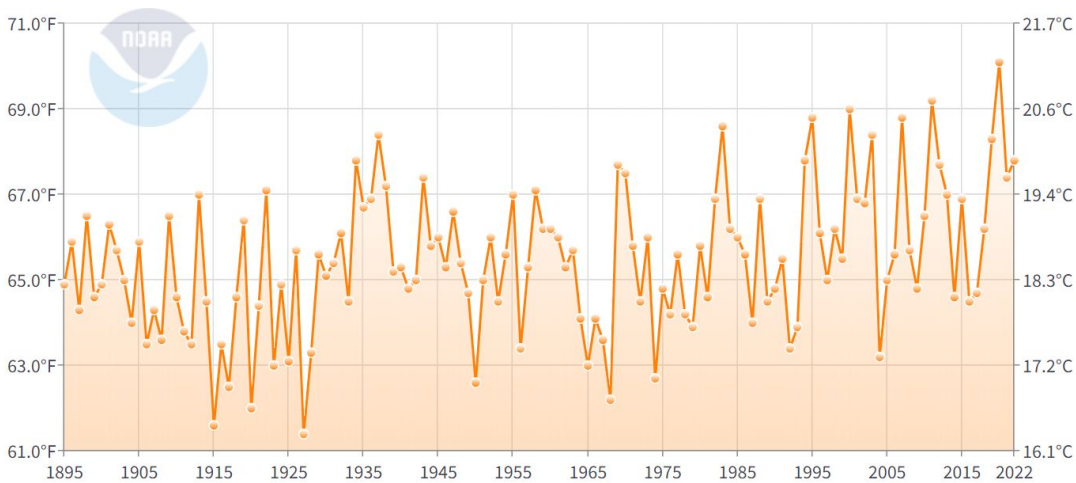

August	
Which year had the coldest August?	Year:
	Temp:
Which year had the warmest August?	Year:
	Temp:

What are your observations from the graphs? Discuss trends you see. Are temperatures increasing or decreasing over time? Is this trend stronger in the winter or summer?

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Compare the information in the first page charts with the 1895-2022 graphs. How is the information similar, and how is it different?

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Which winter month is the coldest? Which winter month is the warmest?

_____

_____

Which summer month is the coldest? Which summer month is the warmest?

_____

_____

Why is the temperature so different in the summer compared to the winter?

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Which cities and/or states do you think have similar climates to Boulder and/or

Colorado? _____

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