

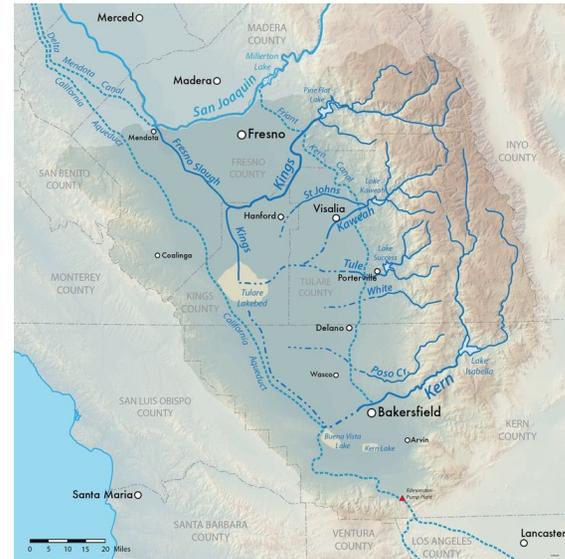
Name: _____

Date: _____

Data for Porterville, California

Case Site: East Porterville, California

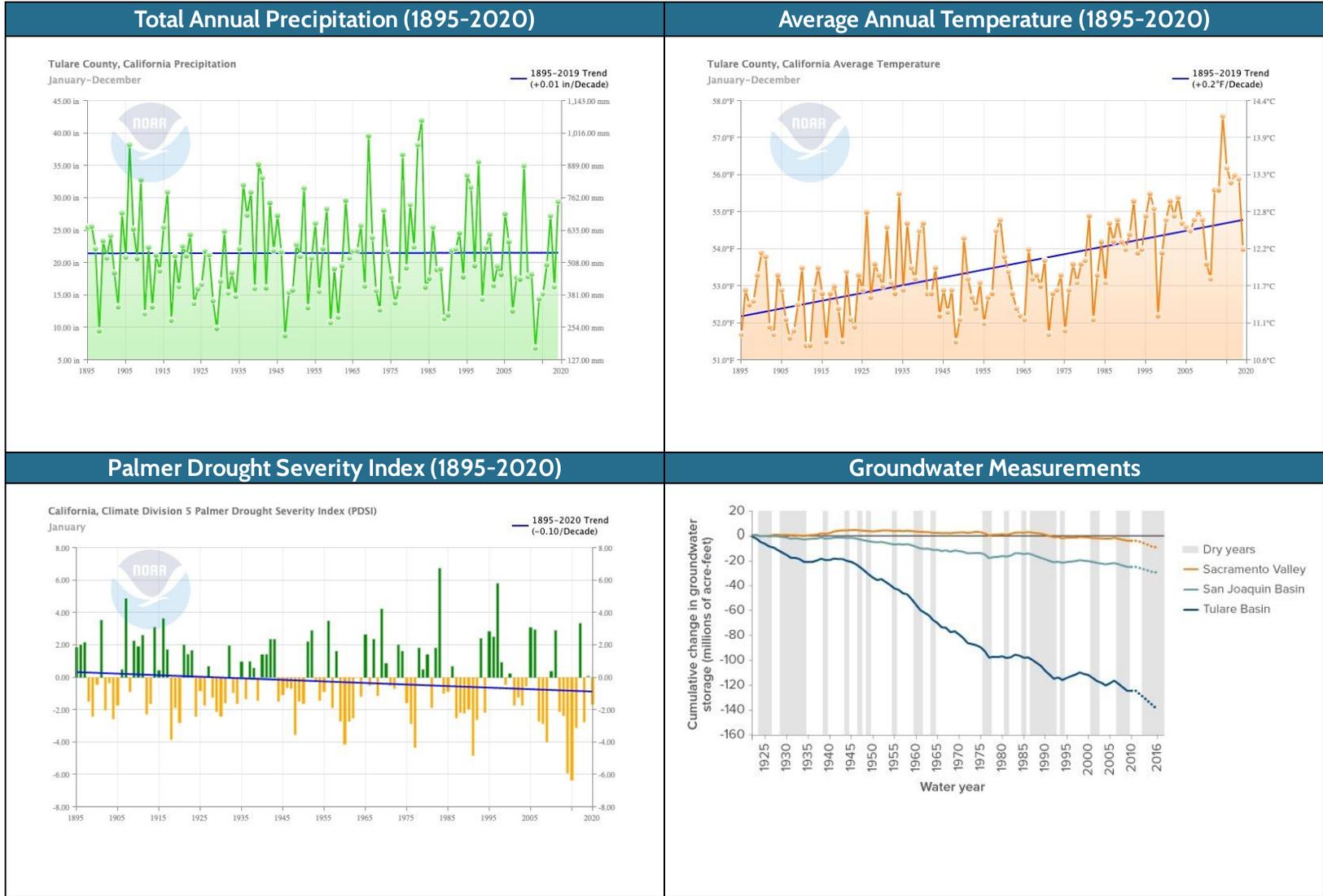
Read About: East Porterville is a town on the east side of the Central Valley of California. Many residents of East Porterville and residents of nearby farms pump water out of an aquifer located beneath the Tulare Basin (the part of the valley where the town is located). Aquifers store water underground. Many aquifers can be refilled when it rains as water seeps through the ground and is stored underground again. Home owners can drill long pipes into the aquifers and pump water out of the aquifers and into their homes. Farmers can also use water stored in aquifers to water their crops.



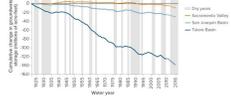
Part 1: Prepare to Analyze and Interpret Data.

Before you analyze the data, do the following:	Your notes:
1. Read about the data sources on <i>About the Data</i> . <ul style="list-style-type: none">• Consider your purpose: Why are you using this data? How might it help you understand floods and droughts?	
2. What component of the Earth’s Water System Model does this community rely on and/or have problems with in the community?	
As you analyze the data, do the following:	
3. Annotate (write and draw) on the graphs (WIS) to highlight your observations of the data (part 2). Observations might include high points in the data, low points in the data, the direction of trend lines, or other questions you might have about the data you see on the graphs or maps.	
4. Begin interpreting what you think the data means (WIM) for your case site (part 3). This can include specific observations about certain years represented in the data and any overall trends you see across all years in the data set.	
5. Consider what other types of data you might want to look at as well or new questions that you have. Note those ideas in part 3.	

Part 2: Data to Investigate. Write or annotate on these graphs as you consider what you notice in the data (WIS).



Part 3: Record Your Observations and Interpretations of the Data (WIM).

Data Source	Note your observations of the graphs:	Describe the short-term variability in the data:	Describe the long-term trends in the data:	Questions I have:
<p>Total Annual Precip.</p> 				
<p>Average Annual Temp.</p> 				
<p>PDSI</p> 				
<p>Groundwater</p> 				

Part 4: Synthesize the Data.

Communicate Claims and Evidence	Your Notes:
<p>What claim, if any, can you make about what is happening with precipitation (including droughts or floods) at your case site?</p> <p>How does the data support your claim?</p>	
<p>What claim, if any, can you make about what is happening with temperatures at your case site?</p> <p>How does the data support your claim?</p>	
<p>How will you communicate the patterns and relationships in your data to your peers?</p>	