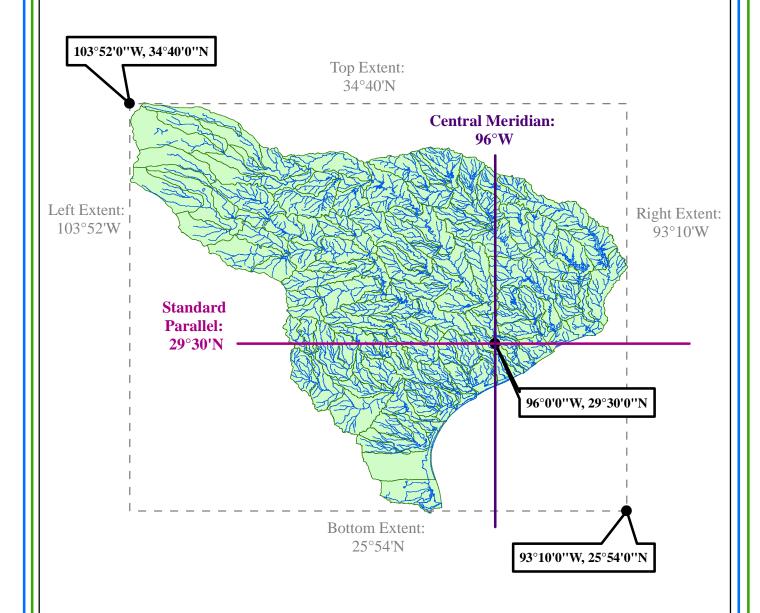


2. What is the approximate map extent of these data in geographic coordinates? Use the Draw Tools in ArcMap to draw a line on the map showing the Central Meridian of the projection at 96°W and another line showing the Standard Parallel at 29° 30' N. Screen capture the resulting map display and include it in your solution.



Legend

rf1reg12geo hucreg12geo



Region	12 Geog	graphic Co	ordinates
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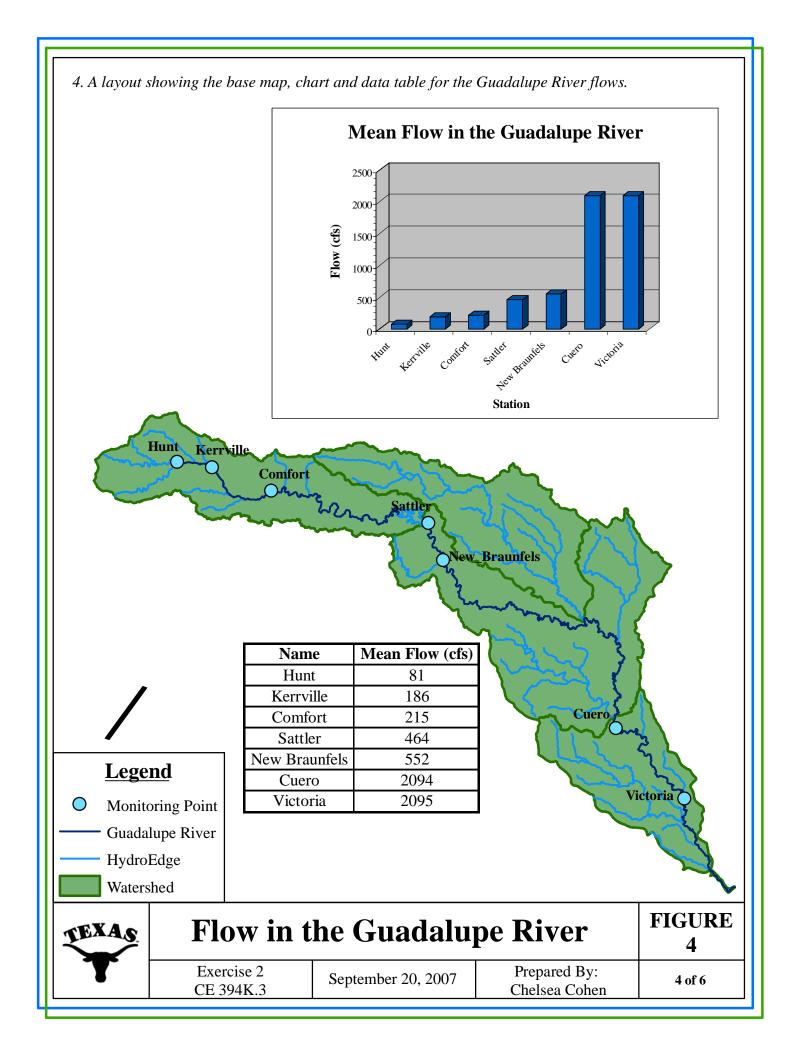
FIGURE

Exercise 2 September 20, 2007 CE 394K.3

3. A layout or screen capture of the MonitoringPoint attribute table with the map. ■ Attributes of MonitoringPoint OBJECTID * GAGENO LONGDEG LONGMIN LONGSEC LATDEG LATMIN LATSEC LONGDD LATDD Shape * 28 -97.012778 28.792778 Point 2 2 16 19 29 57 -97.321111 29.065833 Point 3 3 98 6 35 29 42 53 -98.109722 29.714722 Point 4 4 98 10 47 29 51 32 -98.179722 29.858889 Point 5 5 33 98 53 29 58 10 -98.8925 29.969444 Point 47 6 6 99 9 30 3 11 -99.163056 30.053056 Point 7 99 19 17 30 -99.321389 30.069722 Point Record: I◀ ◀ 1 **>** >1 Show: All Selected Records (0 out of 7 Selected) Options 🔻 **Legend Monitoring Point** Guadalupe River HydroEdge Watershed TEXAS



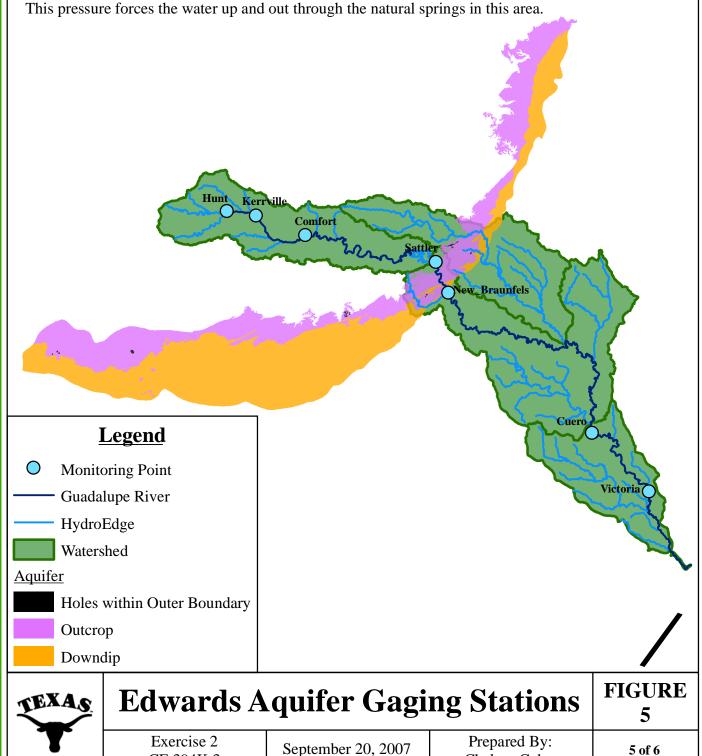
Guadalupe	FIGURE 3		
Exercise 2 CF 394K 3	September 20, 2007	Prepared By: Chelsea Cohen	3 of 6



5. Between which two gaging stations does the Edwards aquifer outcrop area occur? What is the difference in mean annual flow at these two gages? Comment on these data. Do they seem correct to you?

The Edwards aquifer outcrop area occurs between the Sattler and New Braunfels gaging stations. The difference in the mean annual flow at these two gages is 88 cfs.

The increase in flow seems to be a little high for the small distance between the gage stations. However, in this area there are natural springs that are adding additional flow from the groundwater. As new water enters through the recharge zone, it increases the hydraulic pressure in the aquifer.



Chelsea Cohen

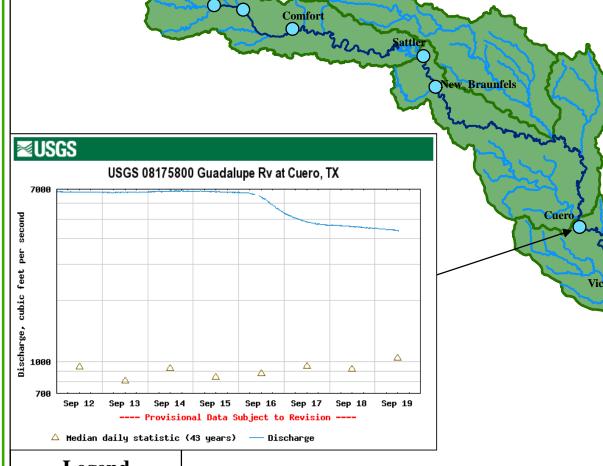
CE 394K.3

6. The graph of flow of the Guadalupe River at Cuero printed from the NWIS website. What are the 20%, 50%, and 80% cumulative probability flows for the calendar day on which you do the download?

Approximately what % cumulative probability is the flow currently?

Daily Discharge Statistics for September 19, 2007 based on 43 years of record

Percent Cumulative Probability			Most Recent	Mov	%
20%	50%	80%	Instantaneous Value	Max (1971)	70 Currently
543	1520	1780	4380	6880	64%



Legend

Monitoring Point

Guadalupe River

HydroEdge

Watershed



Cuero Cum	FIGURE 6		
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