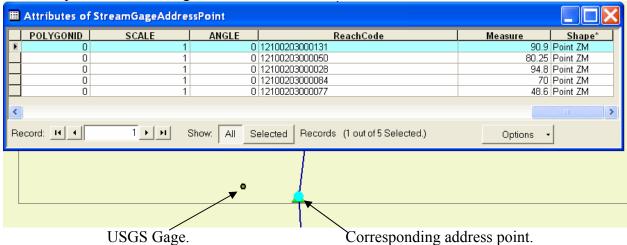
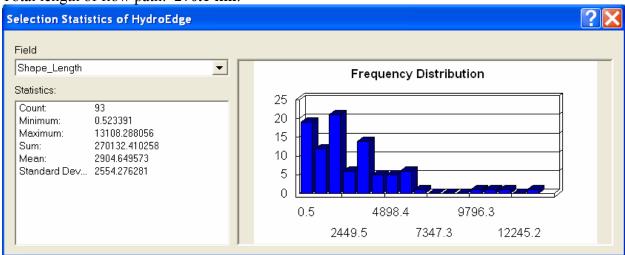
Exercise 5 Solution

Screen capture of StreamGageAddressPoint attribute table.

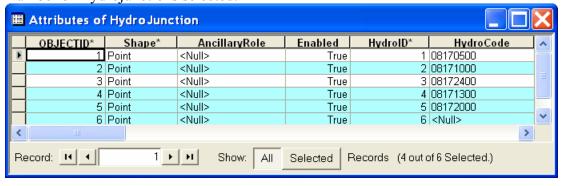


From Trace from upstream to the outlet I get.

Total length of flow path: 270.1 km.



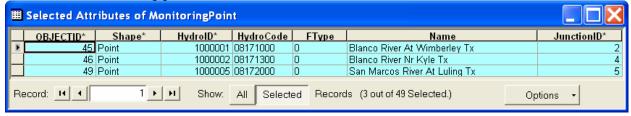
Number of Hydrojunctions selected: 4



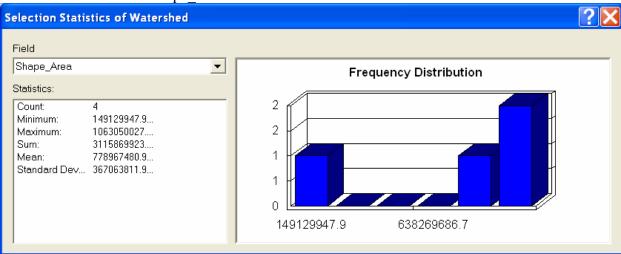
The stream gages that measure flow along this reach are:

08171000, 08171300 and 08172000 from the HydroCode of the selected HydroJunctions. These correspond to:

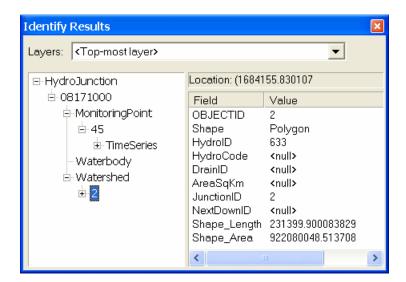
Blanco River At Wemberley TX, Blanco River Nr Kyle Tx and San Marcos River at Luling Tx from the Monitoring point table.



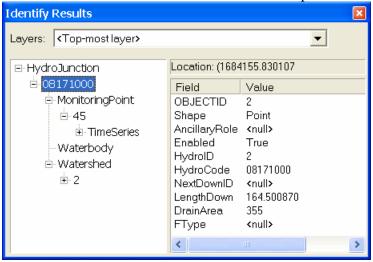
The total area of the watersheds that this flow path traverses is: 3115 km² from sum of selected statistics of Watershed Shape_Area.



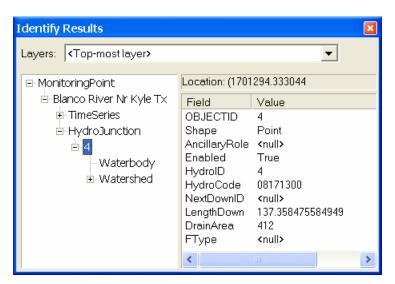
Drainage area of DEM watershed draining to Blanco River at Wemberley gage is 922 km² from the shape area attribute associated with the related watershed – see below.

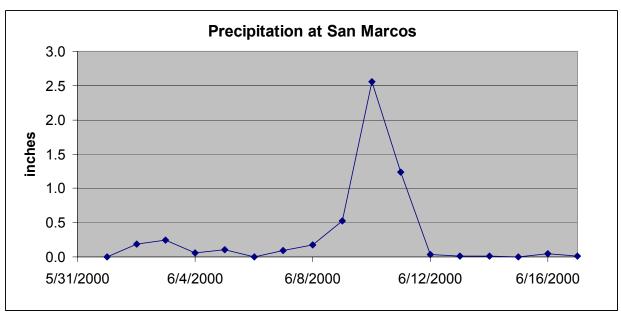


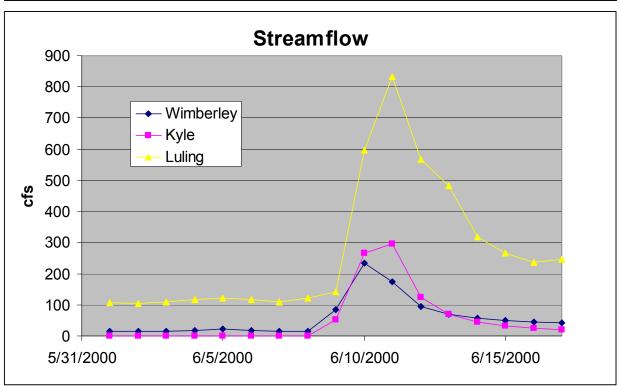
The USGS drainage area in square miles is 355 mi^2 . This is obtained from the DrainArea attribute of the HydroJunction feature class – see below. This DrainArea was assigned on page 18 from the StreamGageAddressPoint feature class during the loading of Hydrojunction data. $355 \text{ mi}^2 = 355 \times 1.6^2 = 908.8 \text{ km}^2$. This corresponds to the 922 km² from the DEM.



The LengthDown at Wemberley is 164.5 km. The LengthDown at Kyle is 137.4 km, so the flow length between the two gages is **27.1 km**.







Map of Rainfall and Streamflow on 6/10/2000

