Terrestrial Ecosystems
River Study

Scientists' Names:

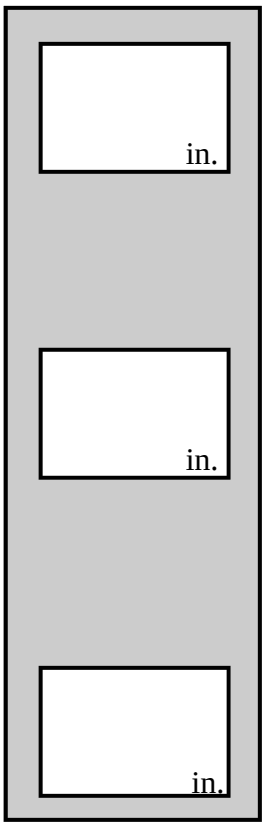
Date: **AM PM**
(circle one)

Climate Data

Air temperature:
Today's weather:
Last week's weather:

Tributary Stream Data

Final Data



Stream height (inches)

From the white mark on the bridge, lower a tape measure until the end just touches the top of the water. Measure up to the white mark.

Record your measurement in inches here. → in.

Stream width (inches)

Use the tape measure to find the width of the stream. Measure across the stream from water's edge to water's edge, while standing on the bridge.

Record your measurement in inches here. → in.

Stream bank width (inches)

Standing on the bridge, measure to find the distance between the bank edges. This is where the steep edge of the bank ends, and the ground behind is flat.

Record your measurement in inches here. → in.

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Straight River Data

Final Data

River width (yards)

Stand between the cone and the river's edge. You will need to have your toes on the edge of the bank. Using the rangefinder, sight across to the marked tree. The two halves of the image will line up when the distance is correct. Record the distance given by the range finder.

_____ _____ _____ _____ _____

Find the median, and record here. →

yds.

Turbidity (centimeters)

CAREFULLY fill the turbidity tube with a sample of water from the river. Slowly let out the water until the pattern on the bottom is <u>just</u> visible, then stop. Record the height from the side of the tube. Continue to let the water out until the screw is <u>just</u> visible, stop, and record this height as well.

Pattern visible:

_____

Screw visible:

_____

Finally, use the space below to calculate the average of the two measurements.

Record the average here. →

cm

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Mapping

Use the space below to map this bend of the river, from Honor Point. Indicate areas of erosion and deposition. Also indicate pools (slow moving water) and riffles (fast water).

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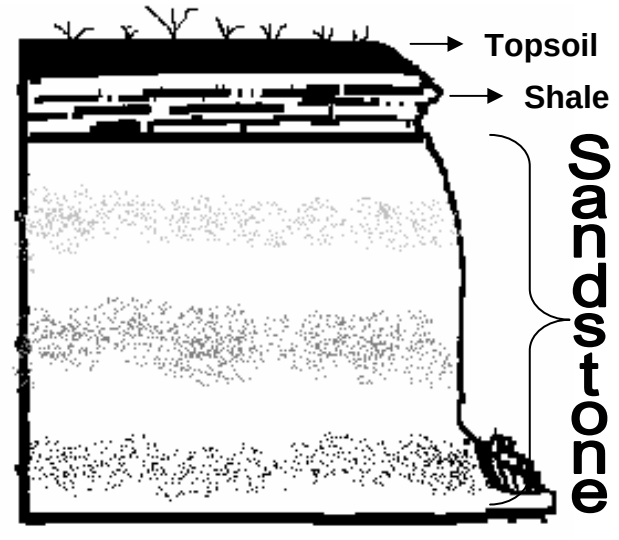
Soil Composition

Draw a diagram of the outcropping, under Honor Point, using the example below. Make sure to draw and label the layers. Identify the areas that show erosion and weathering.



Where is limestone rock located on the hillside?

How do you think this area will look in 10 years?