

Quiz 8: Applied Spatial Analysis- Floodplain Restoration and Watershed Management

Due	Oct 27 at 4:15pm	Points	15	Questions	6
Available	Oct 26 at 4:15pm - Oct 27 at 4:15pm 24 hours			Time Limit	60 Minutes

Instructions

This quiz is based on presentations by Beth Clifton on Floodplain Restoration and Structure from Motion, and Gustavo Facincani Dourado on Watershed Management.

This quiz was locked Oct 27 at 4:15pm.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	57 minutes	13 out of 15

Score for this quiz: **13** out of 15
Submitted Oct 26 at 8:22pm
This attempt took 57 minutes.

Question 1

2 / 4 pts

Describe a specific Terrestrial Aquatic Interface you are familiar with, and list one Ecosystem Service it provides. Use complete sentences.

Your Answer:

Grasslands are a type of Terrestrial Aquatic Interface I am familiar with, grasslands are typically large expanses of grass, usually flat. Grasslands also provide water regulation and waste decomposition as an ecosystem service.

where grasslands meet a river, lake, or sea, would be the terrestrial (land) aquatic (body of water) interface (meeting point).
Points for correct corresponding biome and ecosystem service

Question 2**2 / 2 pts**

Which of the following would NOT be an appropriate known value metric?

- ☐ Yard Stick
- ☐ Football Field
- ☐ Ruler
- ☒ Shoe

Correct!**Question 3****2 / 2 pts**

Errors and Uncertainty *cannot* be quantified.

- ☐ True
- ☒ False

Correct!**Question 4****2 / 2 pts**

You are using Structure from Motion to create a 3D visualization of the Mossdale Railroad Bridge near Manteca.

Which of the following would be best for using as a Ground Truthing Point (GTP)? (Also known as Ground Control Points)



- ☐ The exact center of the bridge
- ☐ One GTP on west end, One GTP
- ☐ An oak tree 250m due north of the bridge
- ☒ Parking space lines in a lot adjacent to the bridge

Correct!

Question 5

2 / 2 pts

The process of scaling adjusts the mean data to the mean data.

Answer 1:

simulated

Answer 2:

observed

Correct!

Correct!

Question 6

3 / 3 pts

identify and describe one source of bias you may experience in collected stream gauge data, and how you might go about correcting/addressing the bias.

Your Answer:

A source of bias one might experience when collecting stream gauge data would be a gap in the observed data, which would cause underestimations, to correct this bias one would need to employ a bias-correcting method such as empirical quantile mapping, which changes the distribution of modeled data to ensure that it is compatible with the observed data.

Quiz Score: **13** out of 15