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 guiz 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:

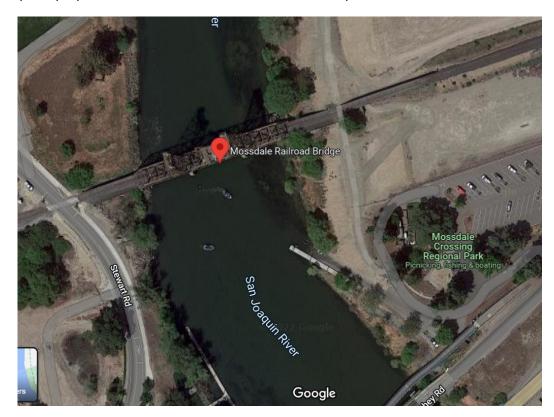
Grasslands are a type of Terrestrial Aquatic Interface I am familiar with, grasslands are typically large expanses of grass, usually flat. Grasslands also provide water regulation and waste decomposition as an ecosystem service.

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 val	ue metric?
	○ Yard Stick	
	Football Field	
	O Ruler	
Correct!	Shoe	
	Question 3	2 / 2 pts
	Errors and Uncertainty <i>cannot</i> be quantified.	
	O True	
Correct!	False	
l		
	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 simulated data to the
mean observed data.
Answer 1:
simulated
Answer 2:
observed

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 biascorrecting 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