LAB 23

Checkout Questions

Lab 23. Human Use of Natural Resources: Which Combination of Water Use Policies Will Ensure That the Phoenix Metropolitan Area Water Supply Is Sustainable?

1. List two ways increasing human population affects the supply and sustainability of groundwater.

2. Three city plans for water use are listed in the table below. Assume that the population size and per capita use are 100% as forecasted.

City	Percent wastewater reclaimed	Percent farm water used by cities	Percent environmental flows (water that remains unused in river)
Α	82	58	46
В	47	22	62
С	84	18	41

a. Which city plan will result in the most sustainable groundwater stores?

b. How do you know?

c. Which city plan will result in the least sustainable groundwater stores?

Human Use of Natural Resources

Which Combination of Water Use Policies Will Ensure That the Phoenix Metropolitan Area Water Supply Is Sustainable?

d. How do you know	d. How o	do you	know?
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- 3. Scientific explanations are subject to revision and improvement in light of new evidence.
 - a. I agree with this statement.
 - b. I disagree with this statement.

Explain your answer, using an example from your investigation about human use of natural resources.

- 4. Science can answer all questions.
 - a. I agree with this statement.
 - b. I disagree with this statement.

Explain your answer, using an example from your investigation about human use of natural resources.

LAB 23

5. One of the main objectives of science is to identify and establish relationships between a cause and an effect. Explain why identifying cause-and-effect relationships is important, using an example from your investigation about human use of natural resources.

6. Explain why it is important to determine how a system is changing over time and which factors are causing the system to become unstable, using an example from your investigation about human use of natural resources.