



River of Change

Rio Bravo (Part 1)

Adapted from the Bosque Education Guide

Follow this worksheet as you watch the River of Change - Rio Bravo (Part 1) video to learn more about how the Rio Grande and its bosque used to look like ~2,000 years ago. If you want to learn more, check out our other River of Change activity in our website (bemp.org/education-resources/river-of-change).

1. What do you think of when you hear the word **bosque**?
2. How are the two bosque pictures (the one from the 1930s taken by the aviator Charles Lindbergh and the recent one) **similar** and how are they **different**?
3. What **cardinal direction** (north, south, east or west) are the Sandia Mountains if you are in Albuquerque?
4. What **cardinal direction** are the mesas and volcanoes if you are in Albuquerque?
5. What shape do you think the river will be after the snow melts and starts to form a river? (You can draw it to help you explain it.)

6. How does the shape of the stream in the video (using a stream table) compare with your predicted shape?
7. What are some things that might prevent a **seedling** or **sapling** from becoming an adult cottonwood? (more than one are correct)
 - a. Too little water
 - b. Too much water
 - c. They got eaten
 - d. They didn't want to
8. What do you think **adult cottonwoods** can do to increase their populations?
 - a. Die
 - b. Get up and run away
 - c. Ask people to plant more trees
 - d. Reproduce
9. What do you think will happen to the features circled (green) during this flood?
 - a. They will stay in the same place
 - b. They will get covered with water
 - c. They will get washed away and settle in another place
10. Are **cottonwoods** the only plants in the bosque? Explain your answer.

11. Would an **upland shrub** be able to survive in the bosque? Why or why not?
12. Would a **cattail** be able to survive in the mountains and mesas? Why or why not?
13. Do you recognize any of the **animals** in our bosque ecosystem? If so, which ones do you recognize?
14. What do you notice in the picture of the bosque? Look at the **levels of plants**. Are there distinct differences between levels?
15. What do you think happened to the Rio Grande and its bosque to make it look like that?