

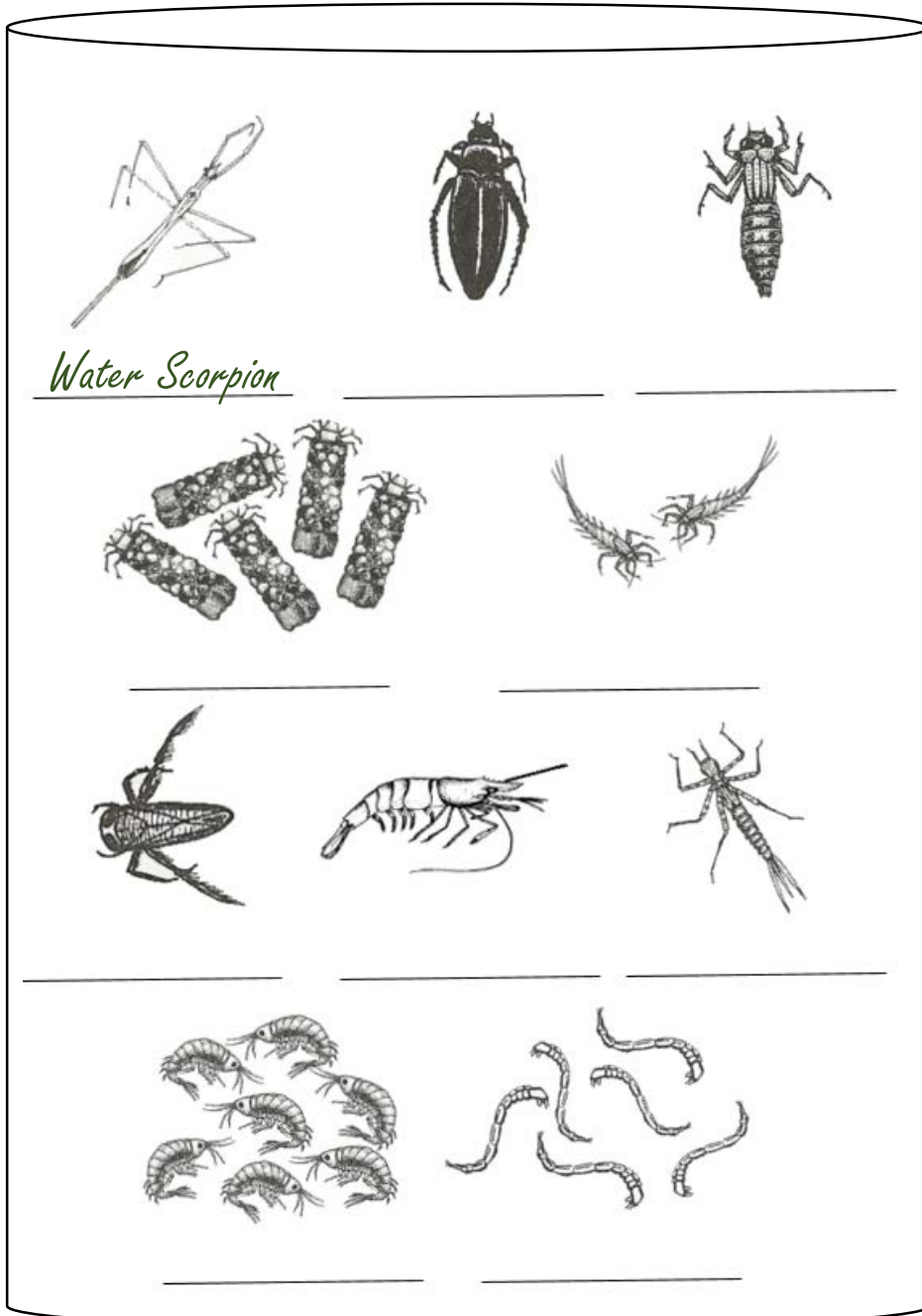


NAME \_\_\_\_\_

### Aquatic Invertebrate Data Collection Student Worksheet

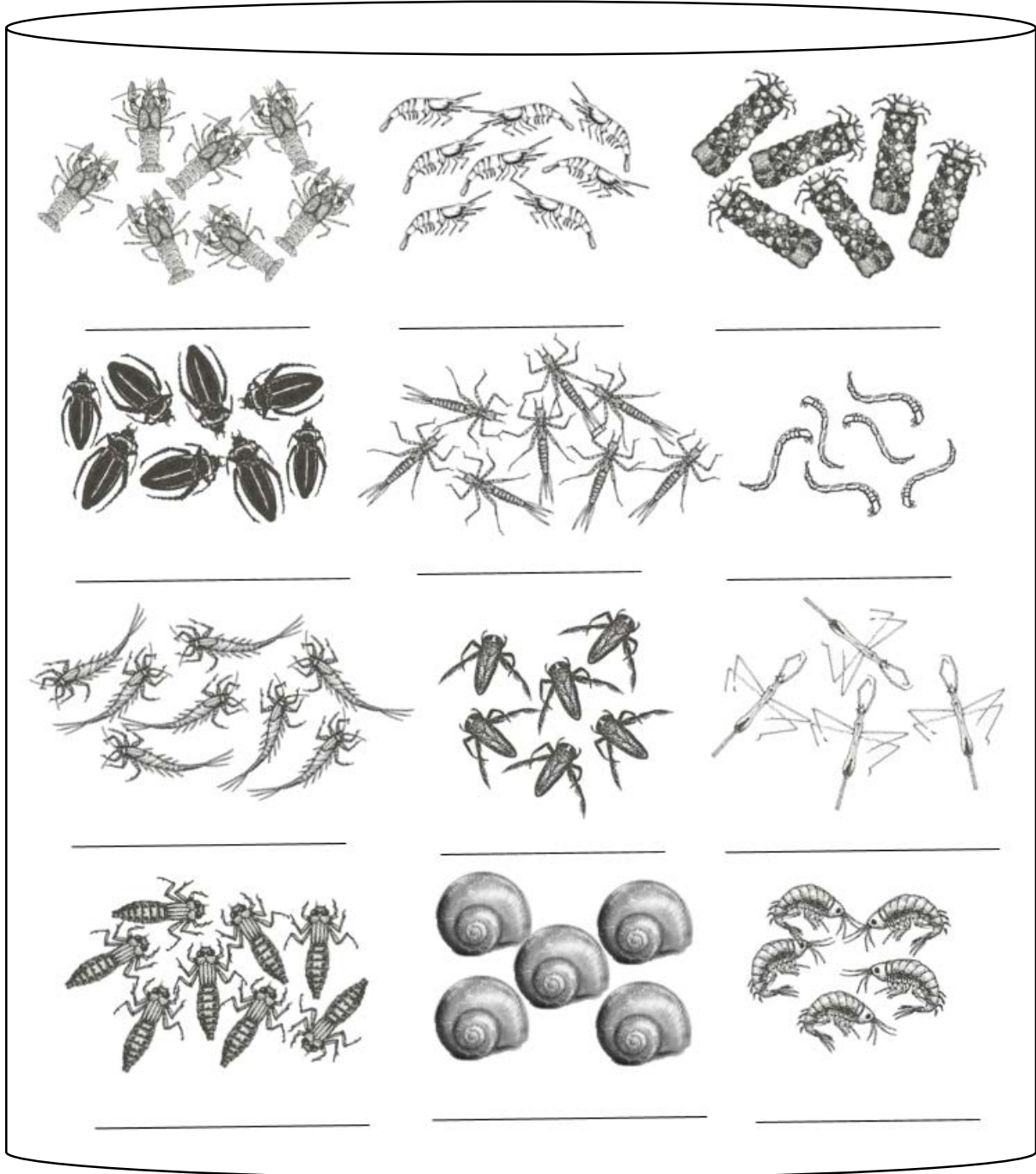
Scientists doing research along the Kissimmee River have collected aquatic invertebrate samples from both the channelized section of the Kissimmee River and a restored section of the Kissimmee River. Use the Aquatic Invertebrates of the Kissimmee River ID sheet to label each of the aquatic invertebrates in the buckets on the next two pages. Then count each species. Each image represents 10 individuals found. Multiply the number by 10 to determine the sample number.

#### *Aquatic Invertebrates in the Channelized C-38 Canal*



- Water Scorpion:  
      1   X 10 =   10
- Water boatman:  
    \_\_\_\_\_ X 10 = \_\_\_\_\_
- Predacious diving beetle:  
    \_\_\_\_\_ X 10 = \_\_\_\_\_
- Grass Shrimp:  
    \_\_\_\_\_ X 10 = \_\_\_\_\_
- Amphipod or Scud:  
    \_\_\_\_\_ X 10 = \_\_\_\_\_
- Crayfish:  
    \_\_\_\_\_ X 10 = \_\_\_\_\_
- Damselfly larvae:  
    \_\_\_\_\_ X 10 = \_\_\_\_\_
- Dragonfly larvae:  
    \_\_\_\_\_ X 10 = \_\_\_\_\_
- Caddisfly larvae:  
    \_\_\_\_\_ X 10 = \_\_\_\_\_
- Mayfly larvae:  
    \_\_\_\_\_ X 10 = \_\_\_\_\_
- Midge larvae:  
    \_\_\_\_\_ X 10 = \_\_\_\_\_
- Apple Snail:  
    \_\_\_\_\_ X 10 = \_\_\_\_\_

***Aquatic Invertebrates in the Restored Kissimmee River***



Water Scorpion:  
 \_\_\_\_\_ X 10 = \_\_\_\_\_

Water boatman:  
 \_\_\_\_\_ X 10 = \_\_\_\_\_

Predacious diving beetle:  
 \_\_\_\_\_ X 10 = \_\_\_\_\_

Grass Shrimp:  
 \_\_\_\_\_ X 10 = \_\_\_\_\_

Amphipod or Scud:  
 \_\_\_\_\_ X 10 = \_\_\_\_\_

Crayfish:  
 \_\_\_\_\_ X 10 = \_\_\_\_\_

Damselfly larvae:  
 \_\_\_\_\_ X 10 = \_\_\_\_\_

Dragonfly larvae:  
 \_\_\_\_\_ X 10 = \_\_\_\_\_

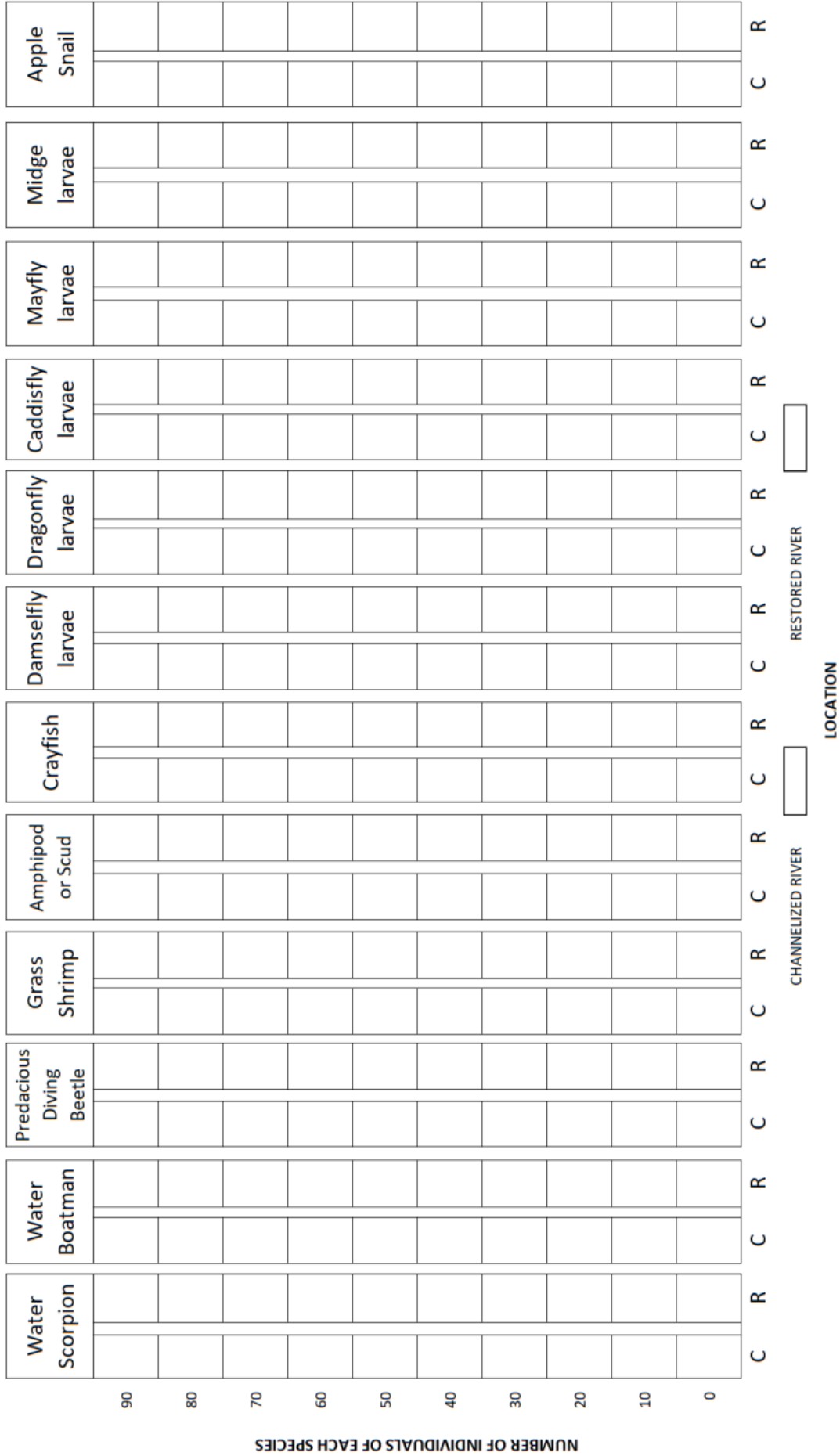
Caddisfly larvae:  
 \_\_\_\_\_ X 10 = \_\_\_\_\_

Mayfly larvae:  
 \_\_\_\_\_ X 10 = \_\_\_\_\_

Midge larvae:  
 \_\_\_\_\_ X 10 = \_\_\_\_\_

Apple Snail:  
 \_\_\_\_\_ X 10 = \_\_\_\_\_

## Graph Your Results



**Directions:** Using two different colored pencils, create a bar chart with the data that you collected for the channelized river (C) and the restored river (R).

## ***Analyzing Your Results***

**Directions:** Answer the following questions based on the results of the bar graph that you just created.

1. What variable (X or Y) is shown along the horizontal axis? What variable(s) does this axis represent?
2. What variable (X or Y) is shown along the vertical axis? What variable(s) does this axis represent?
3. Which species seems unaffected by the changes to the river?
4. What two species dropped to near extinction in the channelized portion of the river?
5. Which species had greater numbers in the channelized section than in the restored section?
6. Which species (5) had the highest numbers of individuals after restoration?
7. Why is the return of the aquatic invertebrate population so important to the river habitat?
8. Explain how the restoration of the Kissimmee River affected the aquatic invertebrate population.