Trap It In



On a hot summer day, a willow tree can use and lose more than 5,000 gallons of water!

Equipment/Materials

tree or shrub plastic bag string or tape small pebble measuring cup/spoons or graduated cylinder

Procedure

- 1. Place a plastic bag around a small branch of a tree, making sure to surround to seven leaves.
- 2. Place a small pebble in the bag.
- 3. Secure the bag tightly to the stem, trying to make an air-tight seal; and leave it in place for 24 hours.
- 4. Record the number of leaves in the bag.
- 5. Remove the bag carefully, taking care not to lose any of the collected water. Pour the water into a suitable container to measure the amount (measuring cup/spoon or graduated cylinder).
- 6. Record the amount of water transpired by the leaves in the 24-hour period.
- 7. Estimate the number of leaves on the entire tree or shrub.
- 8. Assuming that each leaf transpires about an equal amount of water, calculate how much water the tree or shrub transpired in the 24-hour period.

