



**MASTER GARDENER**  
COLORADO STATE UNIVERSITY  
EXTENSION

CMG GardenNotes #152

# Worksheet: Plant Processes #1

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## Photosynthesis/Transpiration

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Suggested GardenNotes to reference: 132, *Plant Structures: Roots*, 134, *Plant Structures: Leaves*, 141 *Plant Physiology: Photosynthesis, Transpiration, and Respiration*, and 144 *Plant Growth Factors: Water*.

### Situation/Symptoms

A homeowner calls about a tree in their yard that leafed out fine this spring. By late June, however, the leaves began to wilt, dry up, and are now falling. They just moved into the home last fall and do not know how the landscape was maintained prior. Other trees in the yard are showing similar symptoms. There has been prolonged drought in the area for the past two years.

**Why are the leaves drying? Why were they fine this spring?**

**How does a prolonged drought interrupt the plant processes of photosynthesis and respiration?**