valley permaculture alliance

Shade Tree Program
Little vegetation or evaporation causes cities to be warmer than the surrounding countryside.
As city temperatures increase due to UHI effect:

- Impaired Water Quality
- Compromise Health & Comfort
- Increased Energy Consumption
- Increased Pollution
Ecosystem services provided by urban trees

- Air pollutant reduction: $\text{O}_3$, $\text{NO}_2$, $\text{SO}_2$, $\text{PM}_{10}$
- CO$_2$ sequestration
- Energy savings & avoided emissions due to shading
- Aesthetic value (increased market value)
- Stormwater runoff reduction

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How the VPA gets trees to valley residents through the APS and SRP Shade Tree Programs
Program Requirements

• APS/SRP single family residential customers
• Plant the trees **within 15 feet** of a conditioned space on the **western, eastern or southern side of home**
  Legal right to and will plant trees on the property
• Ability to and will care for the trees as needed
• Attend a 60-90 minute workshop
Semi-truck arrives early in the morning.

The truck contains 6 different native varieties.

Volunteers get a great morning workout.
A *Tree Corral* is organized.
A **Registration Table** is set-up to welcome participants.
Participants attend a workshop that will teach them how to plant and take care of their trees.
Energy Saving Planting Zone
Seven Tips to Planting a Tree

1 FIND YOUR IDEAL PLANTING LOCATION For energy efficiency, shade trees should be planted within 15 feet of your home on the west, south or east side.

2 CALL BEFORE YOU DIG Before planting, call the 811 hotline to have underground utilities located.

3 HANDLE WITH CARE Always lift the tree by the root ball. Keep the roots moist until planting.

4 DIGGING A PROPER HOLE Dig 2 to 5 times wider than the diameter of the root ball with sloping sides to allow for proper root growth.

5 PLANTING DEPTH The trunk flare should sit slightly above ground level and the topmost roots should be buried 1 to 2 inches.

6 FILLING THE HOLE Backfill with native soil unless it’s all clay. Tamp in soil gently to fill large air spaces.

7 MULCH Allow 1 to 2 inch clearance between the trunk and the mulch. Mulch should be 2 to 3 inches deep.

For more tree-planting tips and information, visit arborday.org. Courtesy: Arbor Day Foundation.
After the workshop participants get a chance to talk to local experts.
Tree Runners bring participants the trees they choose.
Participants are thrilled to get their trees.
“We helped make the Valley a greener, shadier, place today!”

Join the VPA in distributing over 12,500 shade trees this year!