

WATER SENSITIVE TREES

Some trees are much more susceptible to water damage than others. In some instances, trees should even be separated from your general stock, and watered every 2nd or 3rd time you water the rest. Here is a list of those trees, small fruits, and shrubs that require excellent drainage and care in applying water.

FRUIT, NUT & FLOWERING

- *Almond (especially All-in-One Almond)
- Apricot - fruiting & flowering on **peach root only**
- *Cherries - fruiting & flowering
- *Figs
- Nectarines - including Genetic Dwarfs
- Peaches - including Genetic Dwarfs
- Plums - fruiting & flowering on **peach root only**
- *Pomegranates - fruiting
- Walnuts
- Semi-Dwarf stone fruits on Besseyi or peach root

SHADE

- Albizia Julibrissin
- Birch (May not die but, have heavy seed set & sparse leafing)
- *Chinese Tallow
- Chitalpa (Desert Willow a parent)
- *Desert Willow
- *Golden Rain
- Locust
- Pagoda Tree
- Redbud (especially * **Western**)
- *Smoke Tree
- Texas Umbrella
- *Liriodendron (Tulip Tree)
- Vitex

SHRUBS

- Althea (*especially the Singles)
- *Lilacs
- Wisteria

VEGETABLES

- *Artichokes
- Rhubarb

*Extremely sensitive

Recommended canning media: 60% non-Toxic organic, 20% good soil or coarse river (cement) sand, 20% #2 or #3 perlite. This works well for 95% of all bareroot. Desert native type water sensitive bareroot such as Smoke Tree, Western Redbud, Koelreuteria, Desert Willow, Figs will do better in 40% organic or reduce watering 50%. Remember you cannot control the rain. Some are placed in shade houses to get started.

DO NOT USE ORGANIC WITH HIGH TANNIC ACIDS such as **BARKS, REDWOOD, CEDAR**. Coarse pine and fir wood is very good. Rice hulls are excellent in part of media. This media can be high organic. In the east, they grind up small pines and firs and the bark in the organic has low phenol acid because it is thin and had not stored it as have the thick barks on trees used for lumber.

All bareroot trees will die if in a mix that holds excessive amounts of water or if stored in a poorly drained area.

(Over)

7/25/11

SOME ROOTS WILL TELL YOU WHEN THE MEDIUM IS TOO WET

1. **ROOTS GROWING UPWARD FOR OXYGEN:** Normally, early roots grow upward when over watered with the new roots reaching up for oxygen. Trees often have dead tops, but later put on large suckers as roots develop in container surface.
2. **WATER ROOTS:** Can be found in container or storage area. Trees or plants develop roots but some are very fat fleshy roots that shrivel up soon after tree is pulled from medium.
3. **ADVENTITIOUS ROOTS:** Description - Primary growth at nodes and usually a whorling. Callus like - often caused by lack of oxygen in wet areas. This is an area where hair roots would normally grow.

When any of the above is found, it normally tells you the root was healthy and too wet (without oxygen) to grow properly. The plant or tree will start dying from the top because the roots are not taking in minerals and water to supply the top. Some will come out low and/or sucker if surface roots develop. Some trees and plants will leaf out, but not grow because of the lack of oxygen to develop good feeder roots. Varieties on plum root, often do that. It is common for Birch to have small leaves and set lots of seed when roots lack oxygen to grow properly. Water sensitive trees and those with soft roots like most legume varieties will die.