

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
- *Persimmons
- 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 (Sapium sebiferum)
- Chitalpa (Desert Willow a parent)
- *Desert Willow (Chilopsis linearis)
- *Chinese Flame Tree (Koelreuteria bipinnata)
- *Golden Rain (Koelreuteria paniculata)
- Locust (Robinia)
- Pagoda Tree (Sophora)
- Redbud (especially Western*) (Cercis)
- *Smoke Tree (Cotinus coggygria)
- Texas Umbrella (Melia azederach 'Umbraculiformis')
- *Tulip Tree (Liriodendron tulipifera)

SHRUBS

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

VEGETABLES

- *Artichokes
- Rhubarb

*Extremely sensitive

Best storage medium for bareroot stock is 100% **Pure, Coarse Cement Sand** (not Plaster Sand), **in raised bins.**

Recommended canning mix is by volume, 1/3 sandy loam soil, 1/3 sand, 1/3 organic mix (preferably Rice hulls, Fir or Pine shavings or wood, chips, Peat Moss - **NO REDWOOD, CEDAR OR BARKS.**) **Please do not use fertilizer until new growth starts.**

Do not use more than 1/3 organic mix when canning water sensitive trees.

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

(Continued on Next Page)

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 whorl - ring. 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.