

Stressed Shrubs

Soil Building & Nutrient Repair

There are many reasons a shrub will get stressed, but the very first thing to look at is the soil!

Some Rules of Thumb:

- An over-watered plant will look the same as an under-watered plant! Use your fingers, or a longer probing tool to get down into the soil and check on moisture content. Increase or lessen watering accordingly.
- Whenever a shrub is diseased or infested with pests it is under stress. In addition to any natural pest or disease controls, the shrubs root system and ability to uptake nutrients is important for their recovery.

Over and Under Watering Recovery

- Both over and under watering damages hair roots. Deep root injecting of **StartRight** and **HuMagic Liquid** will assist recovery, however, in over watered soils, wait until the soil water balance is returned before injecting.
- Use a deep rod, section of rebar, or long spade and make slender deep holes, wider at the top, in the soil along the drip line of the shrub, trying to get to reach the root areas. Into this hole sprinkle **StartRight** and water in with **HuMagic Liquid** at the rates listed below. Pour into hole slowing, allowing water to drain before adding more.

Application Rate:	StartRight Plant Starter	1/4 oz per hole
	HuMagic Liquid	2 to 4 oz per gallon of water

- Nutrient uptake is hindered when hair roots are damaged, so foliar spray using **HuMagic Liquid** can aid in recovery. Adding to this **OceanMagic with BioChar** will help give some needed short term nutrition. These can also be added to the soil when watering to aid in getting nutrients and humic acids to the roots faster.

Application Rate:	HuMagic Liquid	2 to 4 oz per gallon of water
	Ocean Magic Liquid	1 to 2 oz per gallon of water

The Triad

Often plants starting out in poor soil just need some life in the soil with good, balanced nutrients made available. We have had great success with our **Triad Program**, which combines **Complete 6-4-4**, **HuMagic Granular** and **Soil Enhancer 2-10-0**, along with **StartRight** for the roots.

Application Rate

Complete 6-4-4	1/2 cup per foot of the greater of shrub height or width
HuMagic Granular	1/2 cup per foot of the greater of shrub height or width
Soil Enhancer 2-10-0	1/4 cup per foot of the greater of shrub height or width
StartRight	1 oz per gallon of pot or 2 oz per caliper inch

When in Doubt

- Get a soil test to get an accurate pH and discover any soil imbalances.

- We use Wallace Labs (us.wlabs.com) in Segundo, California for our soil work as they have an organic approach to soil and user-friendly reports and recommendations.