



Plant-X 21

3% CDFA Humic Acids
(5% IHSS Humic Acids)

Other Organic Acids – 8%
Amino Acids – 10%

Solids – 21%
2 lbs/gal Bio-Additives
9.30 lbs/gallon
pH – 3.8 to 4.2

- Grow Roots
- Increase Fertilizer Efficiency
- Easy to use
- Concentrated

“Bio-Additives 101” – this is a term used to describe a wide variety of biologically produced compounds that are not ‘essential’ to plant growth, but definitely stimulate plant growth. These compounds are found in all types of bio-fertilizers and composts. They are produced by microorganisms and plants. They are found in the rhizosphere of plants. (For a detailed discussion of these compounds and their role in crop production, see our CFS Technical Sheet “Rhizosphere”)

Plant-X 21 is a concentrated, stable, easy to use product that contains many plant growth stimulation bio additives such as:

- Amino acids (eg. tryptophan a precursor to auxin)
- B-Vitamins are known to stimulate plant & microbial growth
- Inositol is a plant stimulant & auxin storage component
- Carboxylic acids (lactic & citric) increase mineral uptake
- Beneficial microbial package derived from seeds

Plant-X 21’s primary function is root growth stimulation.

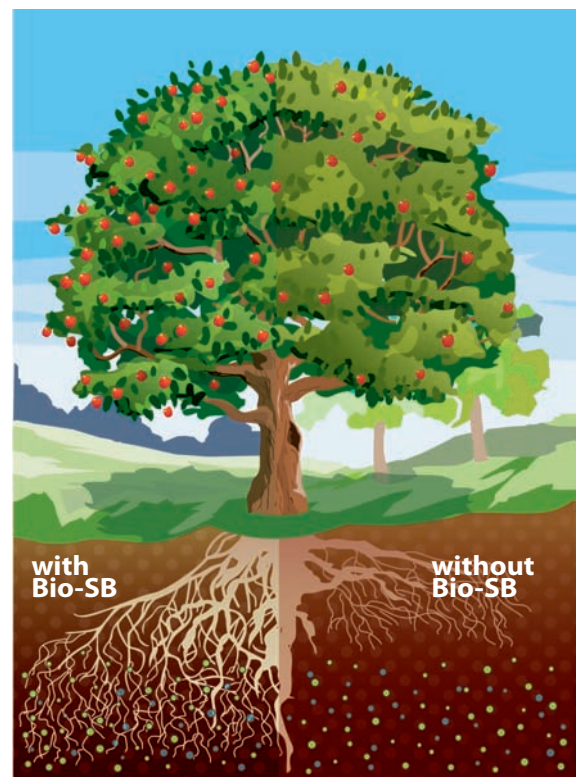
The larger the root system, the better the potential of nutrient uptake.

Phosphates are immobile but are essential early in the growth cycle. Plant-X 21 grow larger root systems, earlier.

Plant-X 21 is an excellent choice for mixing into liquid NPK and micronutrient products.

Application:

- **Permanent Crops:** Apply 1-5 gallons per acre at planting and/or spring or fall root flush.
- **Row Crops:** Use in-furrow, with seed if possible. Side dress and banding applications are also effective.
- Apply with 1-5 gallons per acre of BioSB. Use RhizoPro if root diseases are a problem.



Plant-X 21 contains Humic Acid Colloids – It needs proper agitation & handling for maximum effectiveness

Plant-X Results

Bio-Gro, Inc. has been developing a plant extract product line. Through a fermentation processes, bio-compounds are extracted from plant leaves and roots to create blends that enhance plant growth and rooting. Bio-Gro has used this technology to develop products made especially for producing rooting compounds in the rhizosphere to initiate a rooting response in permanent crops.

Bio-SB – An extract from specific plants that grow in arid conditions of WA, OR, CA and ID. This extract is allowed to brew in a proprietary growth media. Depending on the desired effect, auxin or cytokine precursors can be added.

Bio-N – An extract from whole plants which exhibit the ability to thrive in high disease pressure environments. Plants are extracted and stabilized via a microbial process. Bio-N is used in both conventional and organic farming.

Test Data Shows Plant-X Products Increase rooting and growth



Photograph Index:

1. Treated vs. Control on 80 year old vines
2. New root growth in table grapes
3. New growth stimulated on citrus
4. New root growth stimulated in high phylloxera table grape vineyards