



Clean Crop Solutions Soil Conditioner

Agricultural and Environmental Solutions

When mixed with soil, **CLEAN CROP SOLUTIONS** lowers the soil alkalinity and increases sulfur content and availability by altering soil electrolytes, changing soil structure.

CLEAN CROP SOLUTIONS is nontoxic to humans, fish and animals. You will experience improved plant growth and development leading to increased crop yield and quality. Reducing soil alkalinity is of particular importance.

When alkaline water has to be used for irrigation, **CLEAN CROP SOLUTIONS** is preferred for application through drip irrigation systems: Because of its outstanding suspension ability, clogging of nozzles does not occur. Pathogens causing root rot diseases are distinctly more aggressive in neutral or alkaline soils. Soil acidification, induced by incorporation of Sulphur, reduces the pathogen's vigor and stimulates the propagation of antagonistic soil microorganisms. Sulphur application reduces the risk of infection with root rot. Higher alkalinity makes elements such as iron, manganese and zinc less soluble and therefore less available for plant absorption. You will notice improved leaf greening after application. Nematodes will migrate away from the treated area. Excess rain or irrigation water will then carry the salts away from the treated area.

1. **CLEAN CROP SOLUTIONS** changes or alters the electronic bonding in both soil chemicals and water.

Because of this capability, the oxygen status of the soil is increased resulting in the break-up of clay and hardpan, in addition to eliminating mineral and alkali contamination. Alkaline crusts formed from using chemical fertilizers will also be eliminated.

2. After the **CLEAN CROP SOLUTIONS** treatment, soils take on a regenerated structural change, accommodating deeper water penetration.

This allows for deeper plant root penetration and increased utilization of stored water for long periods of time. Attributed to the improved water penetration, **CLEAN CROP SOLUTIONS** decreases evaporation and run-off resulting in substantial water savings (by up to 30%).

3. **CLEAN CROP SOLUTIONS** is an electrolyte able to remove the "NEGATIVE ION FOG" surrounding each clay or soil particle.

This process allows soil particles to chain bond, producing larger soil aggregates and optimal pore size. Proper pore size promotes increased aeration and optimum moisture retention capacity, encouraging fast biotic growth.

4. The electro-chemical forces in the soil change radically after just one application of **CLEAN CROP SOLUTIONS**.

These changes result in a granular soil texture ideal for moisture penetration, retention, and extended root growth.

5. **CLEAN CROP SOLUTIONS** stimulates bacterial growth in the soil activating specific amino acid chains that are dormant. Nitrogen fixation simultaneously occurs.

6. **CLEAN CROP SOLUTIONS** eliminates the salts left behind from years of chemical fertilizer use.

If not eliminated, these salts can burn the roots of plants, and cause stress. Salt removal, in addition to alkali and boron reduction, are some of the most significant benefits derived from a proper **CLEAN CROP SOLUTIONS** treatment.

7. **CLEAN CROP SOLUTIONS** helps to correct soil pH.

Most soils experience immediate effects, however, the buffering capacity of some soils may decrease the pH adjustment speed.

8. **CLEAN CROP SOLUTIONS** increases the organic capacity of worn out soil while unlocking natural fertility.

9. **CLEAN CROP SOLUTIONS** revitalizes dormant fertilizer.

Often, soils contain readily available nutrients, but the plants are unable to obtain them. **CLEAN CROP SOLUTIONS** provides for proper nutrient absorption and utilization.

10. **CLEAN CROP SOLUTIONS** has the ability to release nascent oxygen and hydrogen gases simultaneously (mainly from the water molecule).