An Effective Soil Conditioner for Improved Crop Growth

WHAT DOES CropPlex® DG DO?

Benefits
- Improves Soil Structure
- Increases Nutrient Exchange and Retention
- Stimulates Microbial Growth
- Improves Nutrient Absorption
- Stabilizes pH
- Increases Stress Tolerance
- Increases Root Development
- Improves Yields
- Increases Profits
Introducing a Better Way to Nourish Crops...

**CropPlex DG**
An Effective Soil Conditioner for Improved Crop Growth

**PLANT DERIVED**
CropPlex DG is derived from one of nature’s most renewable resources. It is an excellent source of calcium, sulfur, sugar acids, and organic carbon all in a soluble form. The sugar acids in CropPlex DG provide readily available carbon to soil microbes while the product provides carbon in a slow-release form. CropPlex DG also increases soil cation exchange capacity.

**IMPROVED NUTRIENT UPTAKE**
Good nutrient management, especially phosphorus, has been shown to be an extremely important factor in crop production. Tests conducted in locations throughout the world over several years have shown that CropPlex DG can complex nutrients, making them more available for uptake by the growing plant. In trials run on potatoes and tomatoes, the levels of phosphorus and other nutrients measured in the petioles of plants were higher for those plants treated with fertilizer and CropPlex DG than for those treated with fertilizer alone.

**Potato Petiole Analysis – Phosphorus**
(Percentage throughout the Growing Season), Magic Valley, Idaho – Russet Burbank

**Improved Nutrient Uptake – Tomatoes**

**Increased Yields by Crop Type**
CropPlex DG + Fertilizer

**INCREASED YIELDS**
In over 40 trials conducted over a five year period worldwide, the addition of CropPlex DG to standard fertility programs resulted in an average increase in total crop yield of over 10%. Research for all crops showed consistent crop yield increases when CropPlex DG was applied along with a standard fertility program. The effect of CropPlex DG is not limited to a specific crop, growing region, time period or soil type.
AN EFFECTIVE SOIL CONDITIONER FOR IMPROVED CROP GROWTH

CropPlex DG functions as a complexing agent for soil nutrients and maintains the soil nutrients in forms that are more readily available to the plant. CropPlex DG is also believed to be a source of metabolizable energy for the soil microbes present in the root zone. In addition, CropPlex DG provides a source of added organic carbon, sulfur and calcium, which are necessary requirements for healthy crops, turf and ornamentals.

INCREASED ROOTING

The addition of CropPlex DG to a standard fertilizer program resulted in improved rooting in wheat. With improved rooting comes better early plant vigor.

**Improved Rooting – Wheat**  
*CropPlex DG + Fertilizer*

CropPlex DG – Effects on Plant Roots

Effects of CropPlex DG on mycorrhiza and sensitisation of plant roots to auxin growth hormones.

CropPlex® DG IN THE ROOT ZONE

In the rhizosphere, or root zone of plants, complex interactions are constantly occurring between plant roots and soil microbes. Microbes oxidize the available organic carbon present in the soil and utilize it as a carbon source. In turn they convert and transfer nutrients in the soil back to the plants, thereby creating an environment more conducive to strong root growth.
CropPlex®

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GUARANTEED ANALYSIS

Calcium (Ca) ........................................ 12.0%
Magnesium ........................................ 5.0%
Sulfur (S) ........................................ 3.0%
Soluble Sulfur ..................................... 3.0%

Derived from hemi cellulose organic carbon.
Also contains non-plant food ingredients:
Soluble Carbon .................................... 20%

GENERAL INFORMATION

CropPlex DG is a blend of organic acids derived from water-soluble anionic polyelectrolyte polymers, wood derived carbohydrates and simple wood sugars.

CropPlex DG is an excellent source of secondary nutrients and organic carbon in a granular form.

CropPlex DG may increase nutrient uptake.

GUIDELINES FOR USE

CropPlex DG can be applied to all crops including row crops, field crops, trees, vines and vegetables.

Soil application rates generally range from 10-300 pounds per acre per growing season. For best results, broadcast apply in the fall after tilling or in the spring prior to planting.

CropPlex DG can be applied alone or as a bulk blend or in-furrow with other granular fertilizers.

CropPlex DG APPLICATION RATES.........TABLE

<table>
<thead>
<tr>
<th>Crop/Plants</th>
<th>Application (per acre/treatment)</th>
<th>Treatment(s) Per Year At Planting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Garden Vegetables &amp; Strawberries</td>
<td>20-40 lb</td>
<td>banded or broadcast</td>
</tr>
<tr>
<td>Citrus</td>
<td>20-40 lb</td>
<td></td>
</tr>
<tr>
<td>Vineyard Grapes</td>
<td>10-40 lb</td>
<td></td>
</tr>
<tr>
<td>Corn</td>
<td>10-40 lb</td>
<td>banded or broadcast</td>
</tr>
<tr>
<td>Tomatoes</td>
<td>20-40 lb</td>
<td></td>
</tr>
<tr>
<td>Potatoes</td>
<td>20-40 lb</td>
<td>banded or broadcast</td>
</tr>
<tr>
<td>Sugar Beet</td>
<td>10-40 lb</td>
<td></td>
</tr>
<tr>
<td>Wheat</td>
<td>10-40 lb</td>
<td>banded or broadcast</td>
</tr>
<tr>
<td>Barley</td>
<td>10-40 lb</td>
<td>banded or broadcast</td>
</tr>
<tr>
<td>Deciduous Fruit &amp; Nut Trees</td>
<td>10-40 lb</td>
<td></td>
</tr>
</tbody>
</table>

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