Quality and Yield

*Stimplex* consistently enhances yield with the best marketability. Increasing yield and improving quality attributes including firmness, color and size gives you the competitive edge and increased profits.

Root Growth and Plant Establishment

*Stimplex* induces plants to produce their own natural growth substances that initiate the growth of full, well-developed root systems. Improving plant development and early root growth is vital to your crop’s success. Growth quality and yield depend on a strong plant with a large, healthy root system.

Nutrient Levels

Below a watermelon trial conducted at the University of Maryland confirms the positive effect of *Stimplex* on foliar nitrogen levels. Petiole nitrate levels were improved in all of the *Stimplex*-treated plots regardless of soil fertility or trial location.

Resistance to Biotic and Abiotic stresses

( Below *Stimplex* has been shown to maximize crop potential from environmental stresses, with direct impact on the grower’s bottom line. *Stimplex* helps protect and revitalize crops experiencing biotic or abiotic stresses. *Stimplex*-treated ‘Swingle’ trees had higher water use efficiency compared to the Control.

Yield of Table Grapes

<table>
<thead>
<tr>
<th>Trial Number</th>
<th>Percentage Increase over Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>10 –</td>
</tr>
<tr>
<td>2</td>
<td>20 –</td>
</tr>
<tr>
<td>3</td>
<td>30 –</td>
</tr>
<tr>
<td>4</td>
<td>40 –</td>
</tr>
<tr>
<td>5</td>
<td>50 –</td>
</tr>
</tbody>
</table>

Water Use Efficiency of Citrus Crops

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Water Use Efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control</td>
<td>38.5</td>
</tr>
<tr>
<td><em>Stimplex</em></td>
<td>39.3</td>
</tr>
</tbody>
</table>

Increases desirable yields • Improves resistance to biotic and abiotic stresses • Increases fruit set • Increases root growth and early plant development • Improves crop quality • Improves overall plant health • Increases nutrient levels.
is the leading organic biostimulant derived exclusively from Ascophyllum nodosum seaweed. Backed over thirty years of extensive field and greenhouse research, Stimplex® follows a tightly controlled process to guarantee the highest standards of product quality and consistency. Through our exclusive, proprietary process, we liberate the active compounds in Stimplex® in what we believe to be the most uncompromised and active state possible; this complex array of active compounds and stress resistance properties are then imparted to your crop to boost productivity.

### Growth Responses
- **Improved firmness**
- **Increased fruit weight**
- **Increased quality**
- **Increased fruit size**
- **Improved crop uniformity**
- **Reduced fruit cracking**

### Potential Mechanisms
- **Resistance to fungal, bacterial and viral pathogens**
- **Anti-feedent and insect repellent**
- **Differential expression of signal molecules and bio-synthetic enzymes**
- **Modulation of root exudates**

### Abiotic Stress
- **Temperature Stress**
  - **Freezing and chilling tolerance**
  - **Salt and drought tolerance**
  - **Enhanced photosynthesis**
  - **Reduced transpiration**

### Enhanced stomatal conductance
- **Up-regulation of subset of stress resistance metabolome**

### Functional food
- **Improved photosynthesis**
- **Reduced transpiration**
- **Altered root architecture**
- **Improved shoot and root growth, early plant establishment, overall plant health and nutrient levels.**

### Wine Grapes:
- **Increased fresh weight**
- **Increased berry firmness**
- **Improved color and size uniformity**
- **Post-harvest application aids in tree recovery from stress and allocates nutrient reserves for next season’s growth**

### Cherries:
- **Reduced fruit cracking**
- **Improved crop uniformity**
- **Increased fruit size**
- **Improved stem health and thickness**

### Citrus:
- **Improved peel thickness**
- **Increased quality**
- **Improved fruit weight**
- **Improved firmness**

### Outcomes

**REAL GROWERS, REAL GROWTH**

This is why top growers count on Stimplex®: it doesn’t just grow your crop, it grows a better crop.

“Mixing Stimplex® with my existing fungicide program helps my avocado crop resist the adverse effects of several biotic and abiotic stresses. Since using Stimplex®, I have noticed a stronger, more vigorous plant as well as an increased yield at harvest.”

Rodolfo Duran Zamano, Avocado Grower, Mexico

“I have now used Stimplex® for the past 3 seasons and it is proven to enhance root growth, plant potential during periods of environmental stress. Stimplex® works in more than 70 countries on over 80 crops. For more specific benefits on crops not listed here, please contact us. Stimplex® gives you a better crop from planting all the way to harvest. Stimplex® is proven to enhance root growth, early plant establishment, overall plant health and nutrient levels. Stimplex® also maximizes crop potential during periods of environmental stress. Stimplex® starts working at the cellular level, stimulating plant growth and development leading to improved crop yield and quality. Applications of Stimplex® throughout the year will increase the production quality of your crop the following season. Growers who use Stimplex® have the ability to achieve consistently desired results while gaining all of the other benefits of the product. Stimplex® is supported by credible research assuring you buy a consistent, top-quality product you can trust. This is why top growers count on Stimplex®, it doesn’t just grow your crop, it grows a better crop.”

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