Microbial inoculant for optimizing fertilizer use and promoting root growth.

- Maximize return from fertilizer applications
- Improve harvest quality and yield
- Exceptional ROI
- Approved for organic production
Grower Benefits

Manage™ is a mixture of highly effective proprietary bioactives of PGPR – Plant Growth Promoting Rhizobacteria that provide multiple modes of action for enhanced plant growth, yield potential, and harvest quality.

FERTILIZER EFFICIENCY
Manage™ improves the solubilization, cycling, and plant uptake of nutrients both from applied fertilizer and in the soil bank. Phosphorus uptake is enhanced by greater root volume and Phosphorus solubilizing enzymes. Iron uptake and metal acquisition is improved by the production of natural chelating agents (siderophores).

IMPROVED HARVEST QUALITY AND YIELD POTENTIAL
Manage™ also promotes root and shoot growth, which can lend to greater leaf area and increased chlorophyll content. This results in increased production of starches, sugars and bio solids each of which contribute to improved harvest quality and yield.

EASE OF APPLICATION
Manage™ is unique in the agriculture industry because of Pathway’s formulation technology and ability to deliver a truly effective rate of bacterial spores when tank-mixed and applied with fertilizer and most pesticides. This provides the grower with consistent product performance without incurring additional application cost.

EXCEPTIONAL ROI
By optimizing fertilizer utilization and enhancing plant growth an exceptional ROI is realized – not just from the product itself, but with crop production inputs as a whole. As a result, growers maximize yield potential and are positioned to be more profitable.
**Nutrient Response**

**UNTREATED**

1. Fertilizer alone applied to crops.
2. Limited solubilization of fertilizer, and nutrients in soil bank remain unavailable.
3. Poor root system limits nutrient and water uptake.

**TREATED**

1. Fertilizer with Manage™ applied to crops at key growth stages.
2. Manage™ improves the solubilization of fertilizer into plant available forms, and release bound nutrients.
3. A more robust root system increases nutrient and water uptake.
Manage™ Technical Profile

Mode of Action
- Nutrient solubilization and cycling improving nutrient availability – macronutrients and micronutrients
- Root growth promotion – improved production of root hairs and root tips for increased water and nutrient uptake

Compatibility
- Effective with a wide range of raw nutrients, blends, organic solutions and pesticides. Contact a Pathway representative for a complete list of compatible products.

Active Ingredients – Proprietary PGPR strains
- Bacillus subtilis
- Bacillus methylotrophicus
- Bacillus licheniformis
- Bacillus amyloliquefaciens

Formulation
- Soluble powder

Shelf life
- 18 months from date of manufacture

Manage™ Use Rates at a Glance*

<table>
<thead>
<tr>
<th>Application Rate</th>
<th>Pre-plant</th>
<th>In-furrow / Banded</th>
<th>Transplant</th>
<th>Greenhouse</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 to 20 oz/acre</td>
<td>10 to 20 oz/acre</td>
<td>4 to 20 oz/acre</td>
<td>8 oz/50 gal water</td>
<td>8 to 10 oz/20,000 sq ft</td>
</tr>
</tbody>
</table>

* Always consult label or contact a product representative for complete use directions.