



# SOIL SET®

## Putting down strong roots for plant growth

Soil-Set® helps improve soils to influence nutrient availability and enhance root growth for season-long performance and plant growth. Soil tests showed improved residue breakdown, organic matter, microbial populations and soil functionality.

Soil-Set includes bacterial metabolites, which bypass the disadvantages of tricky-to-keep-alive live cultures for a convenient, easy-to-use solution. This also allows Soil-Set to easily be integrated into most IPM programs and can be tank mixed with traditional products.

### Product Specifications

<b>Brand Name</b>	Soil-Set®
<b>Category</b>	Biological (soil health)
<b>Active Ingredient</b>	Bacterial fermentation extract, yucca extract, zinc sulfate, copper sulfate, ferrous sulfate, manganese sulfate
<b>Crops</b>	All crops
<b>Formulation</b>	Liquid fermentation solution
<b>Applications</b>	Preplant, preemergence; can be applied alongside most traditional application programs
<b>Rates</b>	16.0 – 32.0 fl oz/A

### Science Explained

Helps enrich soil characteristics and functionality to set the stage for a strong growing season.

Uses proprietary metabolites to foster a healthy soil environment that supports season-long synergy between the soil and plant.

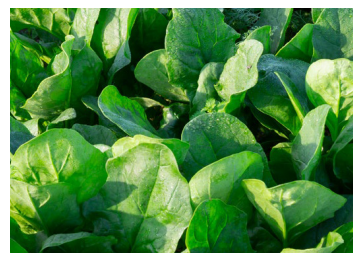
Healthy soil environment allows plants to put down strong roots for a better start and enables the plant to maximize its genetic potential.



ROOT CROPS



CRUCIFERS



LEAFY GREENS



FRUITS & NUTS

# SOIL SET®

<b>REI</b>	None
<b>PHI</b>	None
<b>Restricted Use</b>	No
<b>Packaging</b>	2 x 2.5 gal (36 cases/pallet), 264 gal totes
<b>OMRI Listed</b>	Yes

## METABOLITES V. LIVE MICROBIALS

During fermentation, microbes produce chemicals known as metabolites.

Metabolites defend against plant threats or nutrient competitors, serve as signals to each other, and can even be recognized by plants.

In contrast to live microbial inoculants, which require fostering a viable culture in precise environmental conditions, Soil-Set uses beneficial metabolites produced by microbes – not the microbes themselves – for a more stable product. The result is consistent, effective results time after time.

Metabolites are non-toxic, easy to handle, mix and apply, and are more stable – without an expiration date.

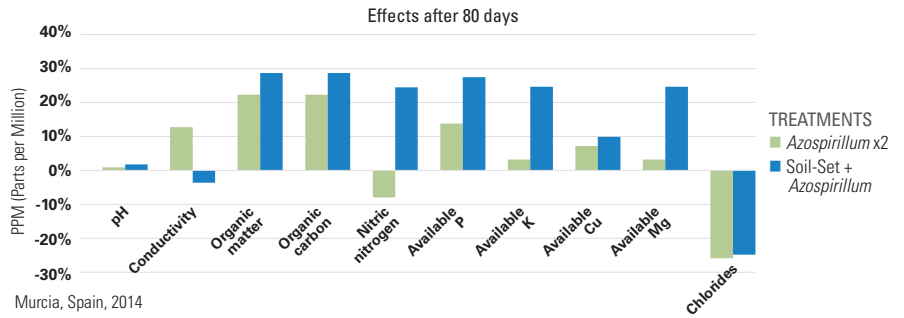
## CONVENIENCE BENEFITS

Highly compatible with existing IPM programs as a low use rate tank mix partner. Safe to use in all soil types and in most tank mixes.

OMRI-listed formulation. Soil-Set is a naturally-derived crop input with excellent crop and environmental safety. Specially formulated to meet consumer demands and organic growing practices.

Manufactured with reduced heavy metals with no REI and PHI to meet the needs of today's food safety standards.

## Soil-Set and Azospirillum in Fallow Soil

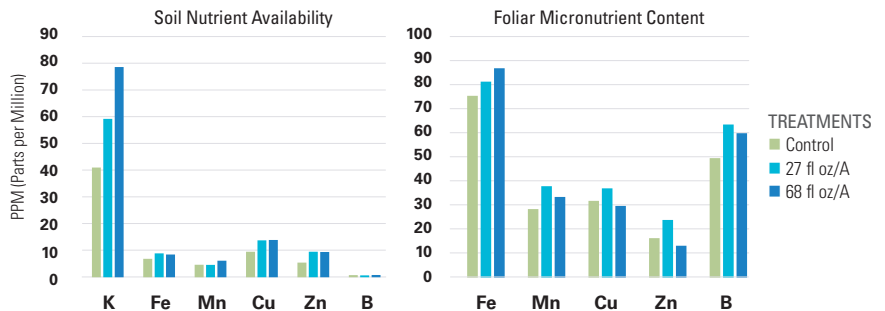


## Soil-Set on Beneficial Soil Microbe Populations

Soil microbes type and function	Population growth with Soil-Set @ 16 fl oz/A
<b>Ammonifying bacteria</b> decompose nitrogen-rich waste into nitrites	+23%
<b>Oligotrophic bacteria</b> facilitate more efficient nutrient uptake in low nutrient soils	+28%
<b>Nitrogen-fixing bacteria</b> make atmospheric nitrogen available in soil	+43%
<b>Filamentous bacteria</b> break down organic residues and form soil humus and antibiotic compounds	+81%
<b>Pedotrophic microflora</b> aid in forming soil humus	+47%
<b>Soil phosphorus mobilizing microorganisms</b>	+90%
<b>Cellulose-degrading bacteria</b>	+54%
<b>Microfungi</b> break down organic residues; many form symbiotic relationships with plants	+70%
<b>Azotobacter</b> make atmospheric nitrogen available in the soil	+2% (maximum reached)

National Academy of Agricultural Science, Ukraine, 2015

## Soil-Set on Nutrient Availability and Uptake in Lemons



**HELM Agro US, Inc.**

401 E. Jackson St.  
Suite 1400  
Tampa, FL 33602

P: 813.621.8846

F: 813.621.0763

connect@helmagro.com

For more information,  
visit [helmcrop.com](http://helmcrop.com).

Soil-Set® is OMRI Listed for use in organic crop production by IMPROCCROP U.S.A. inc./d/b/a Alltech Crop Science. Must not be used as a defoliant, herbicide, or desiccant. Micronutrient deficiency must be documented by soil or tissue testing or other documented and verifiable method as approved by a certifying agent. Soil-Set® is a registered trademark of Improcrop Ltd. Alltech® is a registered trademark of Alltech, Inc. HELM® is a registered trademark of HELM AG. ©2021 HELM Agro US, Inc.