

IMPROVE ROOT DEVELOPMENT, NUTRIENT UPTAKE AND YIELD

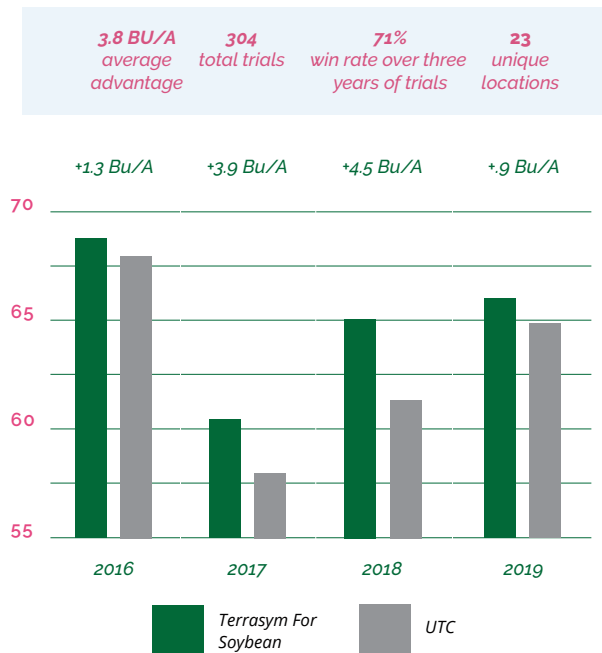
NewLeaf Symbiotics® proprietary M-troph technology is now available as soybean seed treatment **Terrasym® 401 for Soybean**. It delivers improved early season root development, resulting in enhanced nutrient uptake through the growing season and higher yields at harvest.

WHY SHOULD YOU ADOPT TERRASYM?

Terrasym products contain specially selected beneficial microbes called methylobacterium or *pink pigmented facultative methylotrophs* (M-trophs). M-trophs establish a natural, permanent partnership with plants. This symbiotic relationship facilitates improved plant development and nutrient uptake, ultimately making crops stronger, more stable and more tolerant of abiotic stress, from germination and emergence through harvest.

PERFORMANCE BY YEAR

Terrasym for Soybean (2016-2019)



Source: Standalone use without rhizobia; all treatments had base fungicide and insecticide treatment. NewLeaf Symbiotics Contract Research Trials

HOW CAN TERRASYM 401 BENEFIT MY SOYBEAN CROPS?

- Contains beneficial microbes called *pink pigmented facultative methylotrophs* (M-trophs), specially selected for use in soybeans.
- Harnesses M-troph natural partnerships with their plant hosts, making crops stronger and more tolerant of abiotic stress while enhancing stability of performance, from planting through harvest.
- Shows enhanced development of soybean root area by 12%.* For more plant health data details, please go to newleafsym.com (Source: 2020 IN10T FarmerTrials data).
- Features broad compatibility with 180 days on-seed stability. Check compatibility at terrasym.com.
- Has low application rate for soybeans leaving more space on seed for additional treatments.
- Consumes methanol, thereby creating zero energy cost to plants.

*Source: 2020 IN10T FarmerTrials® data. For more plant health data details, please go to newleafsym.com.



Untreated Check

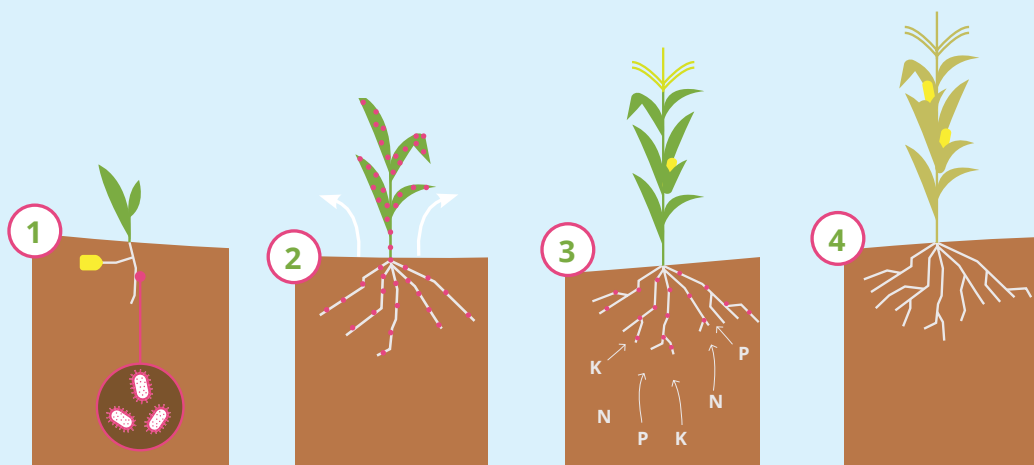


Terrasym 401



Image Sources: 2020 IN10T FarmersTrials®. All treatments had base fungicide and insecticide

HOW DOES TERRASYM 401 FOR SOYBEAN WORK?



1. Terrasym products contain specially selected beneficial microbes called methylobacterium or *pink pigmented facultative methylotrophs* (M-trophs). M-trophs establish a natural, permanent partnership with plants. This symbiotic relationship facilitates improved plant development and nutrient uptake, ultimately making crops stronger, more stable and more tolerant of abiotic stress, from planting through harvest.
2. As broad plant colonizers, M-trophs spread rapidly from the seed surface across a plant's roots and leaves. They support stand establishment by promoting consistent emergence and larger root systems.
3. M-trophs improve nutrient uptake by populating plant roots and promoting higher numbers of root tips and root nodules, which in turn enhance nutrient acquisition. They also secrete beneficial molecules into the root zone that can bind and transport yield-enabling micronutrients.
4. By consuming methanol – a by-product of plant metabolism – M-trophs colonize at zero energy cost to the plant. This leaves more energy available to the plant for nutrient uptake, resulting in increased chlorophyll content and enhanced photosynthetic efficiency, both of which translate to increases in yield.

ACTIVE INGREDIENTS	PACKAGING	APPLICATION INFORMATION
Microbial content 2% Methylobacterium hispanicum 1×10^9 cfu/g Inert ingredients 98%	400A Case 2, 200-acre bags (6.25 lb. each) 800A Case 1, 800-acre bag (25 lb. each) 3,200A Case 4, 800-acre bags (25 lb. each)	1 oz. (28g) per 100 lb of soybean seed OR 0.5 oz. (14g) per unit of soybean seed Mixing ratio of 1:3 (1 oz. dry Terrasym powder: 3 oz. water)

GO TO NEWLEAFSYM.COM TO SIGN UP FOR EMAIL UPDATES AND RECEIVE THE LATEST 2020 GROWING SEASON RESULTS AND OTHER INSIGHTS AND INFORMATION.



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