

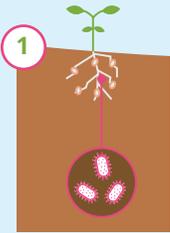


A MICROBIAL PLATFORM DESIGNED TO FIT THE NEEDS OF GROWERS LOOKING TO INCREASE YIELD, PRODUCTIVITY AND OPERATIONAL SUSTAINABILITY.

Terrasym® technology offers growers a better, more cost-effective method to increase crop productivity, resulting in robust plant growth, enhanced nutrient uptake, increased yield potential and improved crop quality. Terrasym technology-based products help growers optimize in-season performance through increased efficacy of current inputs and is complementary to traditional practices, in the end, helping them to produce more on the same footprint.

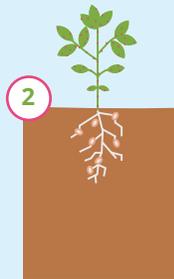
HOW IT WORKS

Terrasym products contain specially selected beneficial microbes called *pink pigmented facultative methylotrophs* (M-trophs). As whole plant colonizers, M-trophs establish a natural, permanent partnership with plants. This symbiotic relationship facilitates improved plant development and nutrient uptake, ultimately, making crops stronger, more tolerant of abiotic stress while enhancing stability of performance, from planting through harvest.



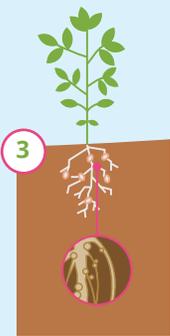
EMERGENCE

M-trophs kickstart emergence, resulting in improved early season plant growth and vigor.



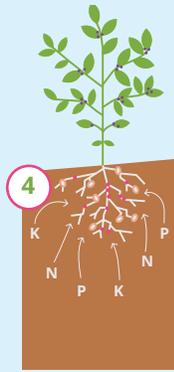
VIGOR

As broad plant colonizers, M-trophs rapidly spread throughout a plant's roots, leaves and vascular tissues. This stimulates the plant's natural defenses bolstering plant health.



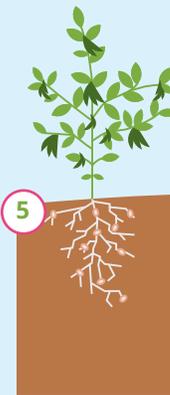
ROOT DEVELOPMENT

Increases in development of fine root hairs, brace roots and nodulation can be attributed to growth promotion triggered by the presence of M-trophs early in the season.



NUTRIENT UPTAKE

M-trophs improve nutrient uptake by populating plant roots, creating pathways for nutrient absorption. They secrete beneficial molecules within the soil profile to help bind and transport yield-establishing nutrients like phosphorus and potassium.



YIELD

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.

SEE THIS PROCESS COME TO LIFE AT TERRASYM.COM

PRODUCT BENEFITS



IMPROVE YIELD

Proven to increase corn yield by 8.9 Bu/A and soybean yield by 4.6 Bu/A over a comparable check.*



ENHANCE NUTRIENT UPTAKE

Increased uptake of nutrients like nitrate nitrogen, phosphorus, potassium, iron and manganese in corn, and iron in soybeans.



STRENGTHEN CROPS

Infuses plants with microbes to help improve nutrient uptake, making crops stronger, more stable and tolerant of abiotic stress.



BROAD COMPATIBILITY

May be used as a standalone technology and combined with other crop inputs. Application methods include seed treatment and in-furrow options.



FIELD TESTED FOR 4+ YEARS

In 2019 alone, tested within 124 trials, in 42 unique locations, spanning 19 states with independent researchers, including 7 universities.

*All comparable checks were treated with base fungicide and insecticide

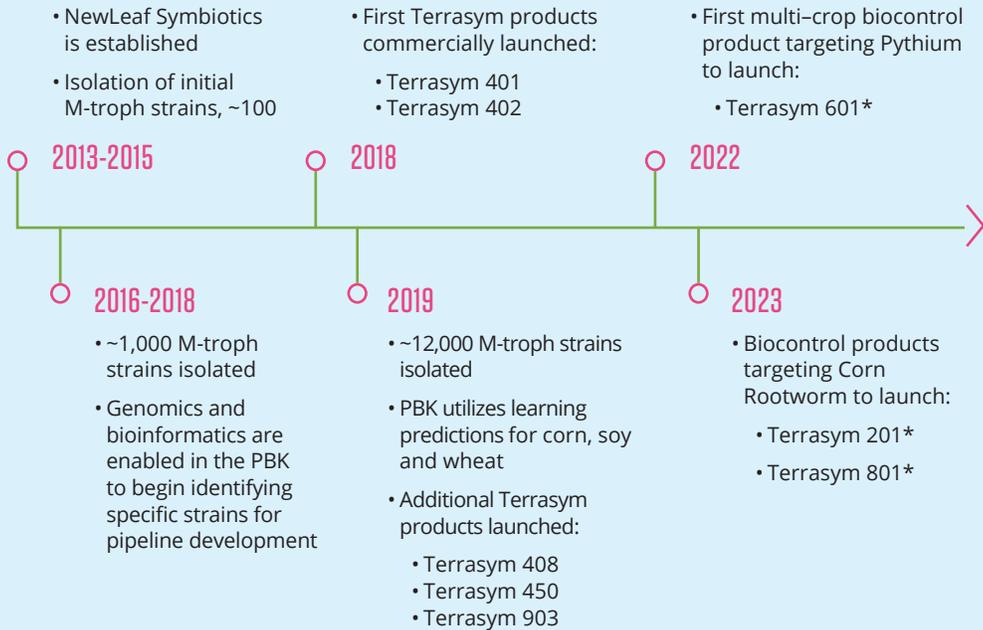




PRESCRIPTIVE TECHNOLOGY FROM THE WORLD'S LARGEST LIBRARY OF M-TROPHS

Terrasym technology is powered by our proprietary computational genomics engine, Prescriptive Biologics Knowledgebase® (PBK), which helps us select and develop strains that fit specific crop requirements and growing conditions. The customizability and speed with which we can deliver innovative, cutting-edge products is exclusive to Terrasym, and unmatched in agriculture today.

MILESTONES



*US-EPA BPPD submissions anticipated for all biocontrol products

COMMERCIALY AVAILABLE:

TERRASYM 401



TERRASYM 402



TERRASYM 408



TERRASYM 450



TERRASYM 903



PIPELINE PRODUCTS:

TERRASYM 601*



TERRASYM 201*



TERRASYM 801*



LEARN MORE ABOUT OUR PROPRIETARY TECHNOLOGY AND THE TERRASYM PLATFORM TODAY!



@Terrasym



NewLeaf Symbiotics



newleafsym.com



Founded in 2013, NewLeaf Symbiotics® is at the forefront of sustainable agriculture technology, with a singular focus on the identification, development and commercialization of the beneficial microbes called *pink pigmented facultative methylotrophs* (M-trophs). This new class of agricultural microbes is helping transition agricultural products and production to deliver better quality crops, with less impact on the environment—a win-win for growers and those of us who depend on their success.