

IMPROVED ROOT DEVELOPMENT, NUTRIENT UPTAKE AND YIELD

Proprietary M-troph technology from NewLeaf Symbiotics® is now available for corn growers in two different application methods designed to fit your specific needs. Terrasym® 408 and Terrasym 450, applied in-furrow or as an overtreatment of seed respectively, deliver improved early season root development, resulting in enhanced nutrient uptake through the growing season and higher yields at harvest.

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.



Untreated Check* Terrasym 408

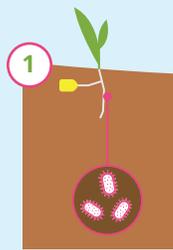


Untreated Check*



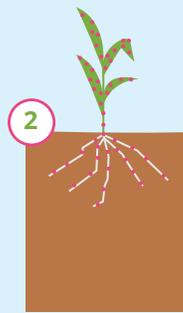
Terrasym 408

*Image Sources: Weakly Farmers Coop—Fulton, KY 2019; All untreated checks were treated with base fungicide and insecticide



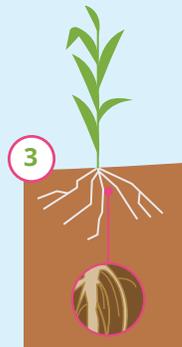
EMERGENCE

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



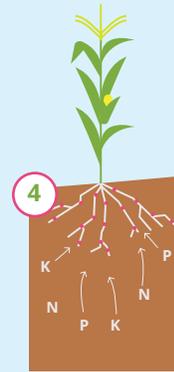
VIGOR

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.



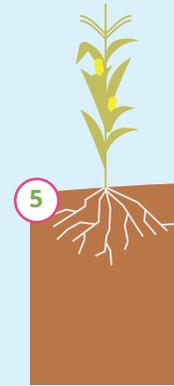
ROOT DEVELOPMENT

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



NUTRIENT UPTAKE

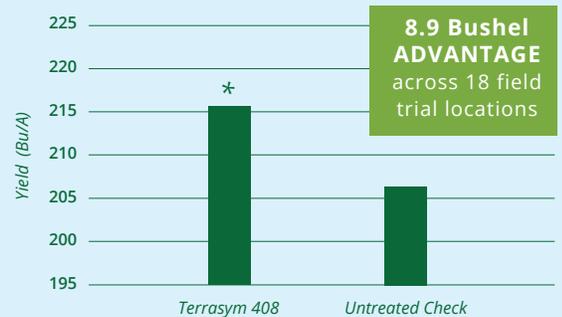
M-trophs improve nutrient uptake by populating plant roots, creating pathways for nutrient absorption. They secrete beneficial molecules within the soil profile to help bind and transport yield-establishing nutrients like phosphorus and potassium.



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.

THE IMPACT OF TERRASYM 408



*Significance at 90%

Source: All treatments had base fungicide and insecticide; NewLeaf Symbiotics Contract Research Trials; 18 locations

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.

Performance may vary from location to location and from year to year as local soil, climate, and/or other conditions change. Always read and follow label directions. Check state registration to make sure product is registered in your state. NewLeaf Symbiotics® and Terrasym® are both registered trademarks.