

FOR IMPROVED ROOT DEVELOPMENT, NUTRIENT UPTAKE AND YIELD

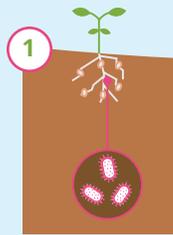
Terrasym[®] 401 is a NewLeaf Symbiotics[®] proprietary M-troph seed treatment for use in soybeans that delivers improved emergence, vigor and nutrient uptake. This combination translates to enhanced plant health throughout the growing season, resulting in higher yield and crop quality at harvest.

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.

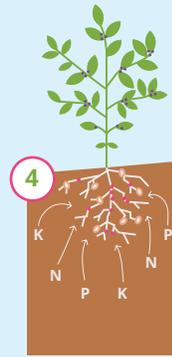


Terrasym 401 Untreated Check*



EMERGENCE

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

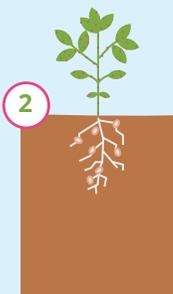


NUTRIENT UPTAKE

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.

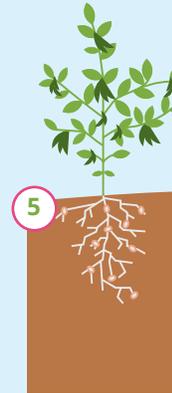


Terrasym 401



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.

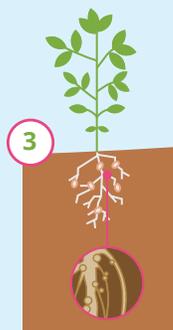


YIELD

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.



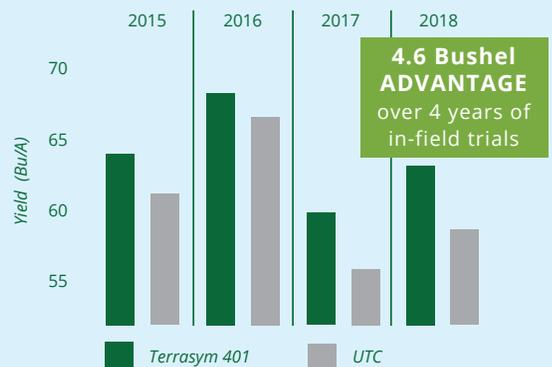
Terrasym 408 Untreated Check*
120 pods 85 pods



ROOT DEVELOPMENT

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

THE IMPACT OF TERRASYM 401



*Image Sources: Blomgren Seed—Boone County, IA 2019; All untreated checks were treated with base fungicide and insecticide

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

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.