



Increases Germination and Turf Root Growth

As an industry leader in environmental responsibility, TMI is constantly searching for natural alternatives to chemical seed treatments.

Opti-Root is the answer for effective grass seed enhancement that promotes germination, root development, plant growth and an improved growing environment with high efficiency and natural ingredients without adding additional coating to the seed and reducing the actual amount of seed that you receive.

With active ingredients of Yucca extract, a specific blend of Chitosan and Chitin and the most efficient Phosphorus source in the industry, Opti-Root brings decades of research and the best agricultural practices to turfgrass seeding and overseeding to sports, commercial, municipal and residential applications.

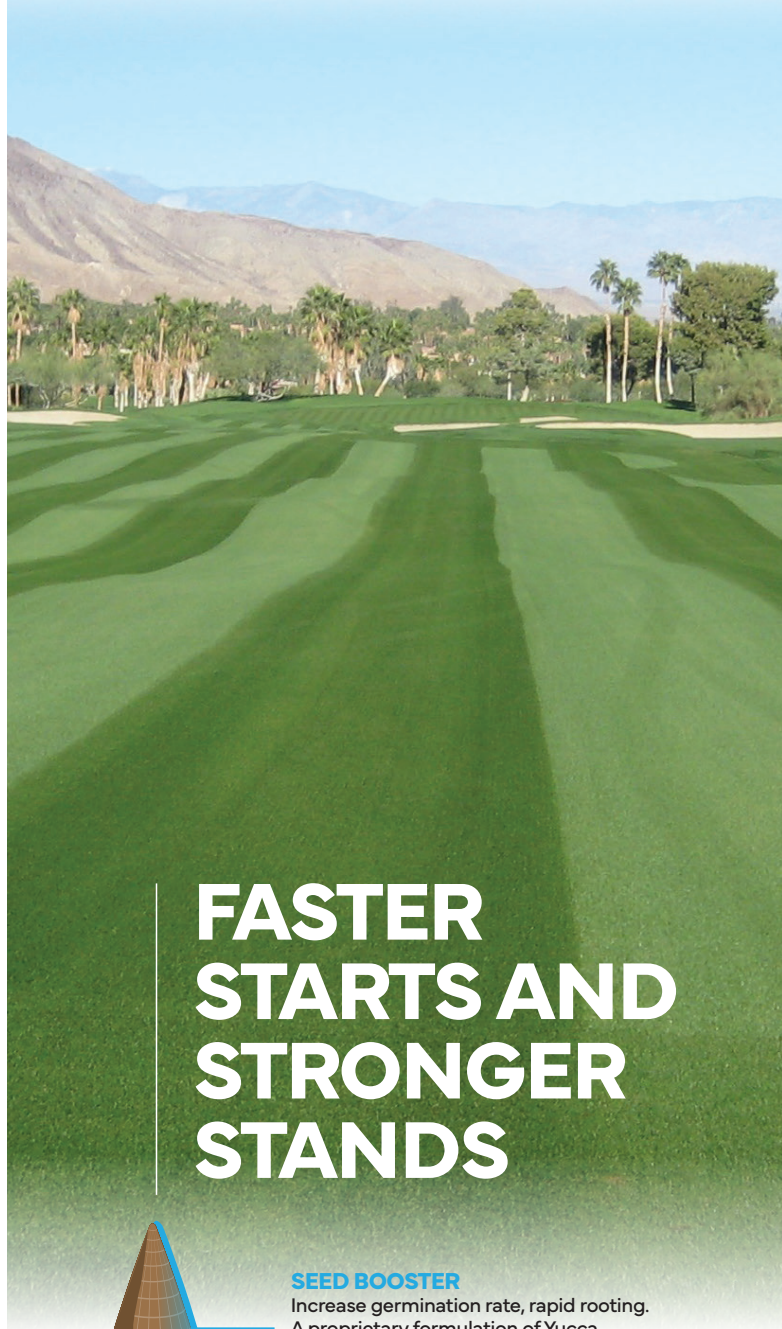
Give your turf grass a jump start to success.

Increases germination, Opti-Root is a seed enhancement treatment that provides rapid establishment, helps maintain moisture for the seed during radical emergence and providing essential phosphorous for the plant during the growth cycle.

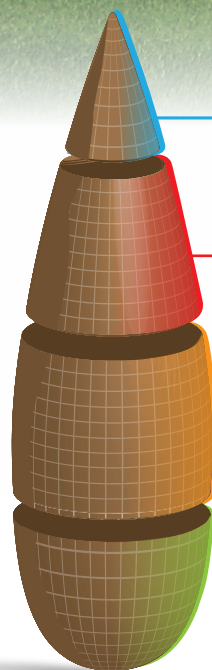
Natural plant stress resistance active ingredients in Opti-Root enhance plant resistance to stress, and promote positive microbial activity that mitigates harmful biotic organisms.

Applicable Market Applications:

- Sod Farms
- Sports Turf
- Golf Courses
- Residential Turf
- Forage/Reclamation



FASTER STARTS AND STRONGER STANDS



SEED BOOSTER

Increase germination rate, rapid rooting. A proprietary formulation of Yucca extract, Chitosan, Chitin and other naturally occurring beneficial nutrients.

INCREASED GERMINATION

Maintain moisture around seed, controlled growing environment. Faster establishment, improved plant density.

MICRONIZED NATURAL PHOSPOROUS

Provides Phosphorus during radical emergence. Making elements readily available via micronized process.

BIOLOGICAL INNOCULATE FOOD SYSTEM

Stimulate growth of microorganisms in the soil. Building plant health to invite the soil and promote positive microbial activities, control pathogenic nematodes, and their eggs. Mitigate harmful biotic organisms.

Opti Root is a seed treatment, not a coating product.
YOU RECEIVE 100% SEED



Research on Chitosan and Chitin for plant growth purposes dates back to the 1980s, with increased interest in natural alternatives of traditional fertilizers and control agents. These elements of Opti-Root are derived from the exoskeletons of crustaceans, and appear to control pathogenic nematodes. Research has shown that they stimulate the growth of naturally occurring microorganisms in soil, which, in turn, release substances that kill the pathogenic nematodes and their eggs.

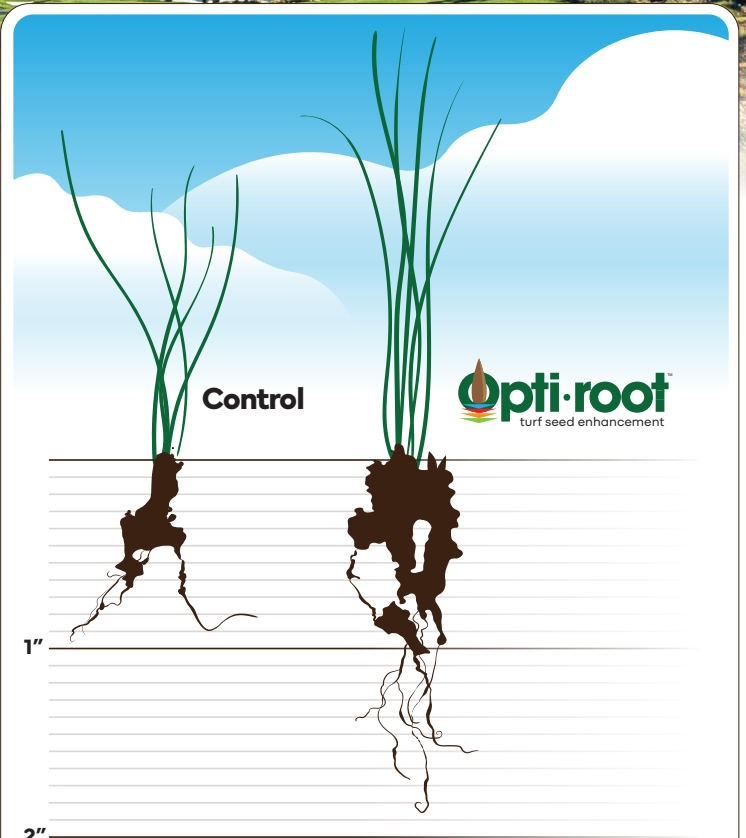
The result is stronger and more robust turfgrass for your operation, and for your customers.

Golf courses, sod growers for sod production and landscapers the world over have found TMI's cool season grasses, warm season grasses, golf grass, and specialty grasses to be state of the art when it comes to color, texture, disease resistance and overall performance.

Our extensive network of carefully chosen seed growers produces seeds of the highest quality in the world, with high germination rates and purities that exceed official standards. Our certification, testing and quality controls continue to raise the benchmark for the entire industry.



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Opti-root provided 150% more root mass density and length than the controls in the lab study. The top growth and shoot density of Opti-root was 50% greater than the control. Study conducted in an independent ASTA accredited laboratory.

Turf Seed Enhancement Guaranteed Analysis

Total Nitrogen (N).....	1.00%
Available Phosphorous.....	6.00%
Soluble Potassium	4.00%

Natural Adjuvant: This unique formulation provides superior wetting capability along with nutrient enhancers and chelators that allow plants to solubilize and transport

Ingredients: Monopotassium Phosphate, Chitin & Chitosan*, Yucca Extract', Humic and Fulvic Acids.
 *Derived from Crustaceans and Yucca