



Soil Health Treatment

Developed with Cytozyme's proprietary technology, SOIL+ is designed for direct application to a wide variety of soils to promote growth of beneficial soil microorganisms. A better soil environment aids plant growth which leads to increased crop yields.

Increased Microbial Activity Results

- Increased nutrient availability and uptake
- · Reduced compaction
- Improved soil structure
- Better soil aeration

SOIL+ Performance

- Increased microbial activity¹
- Reduced soil compaction²
- Improved crop yield³

SOIL+ Field Results

SOIL+ improves soil conditions, creating a better environment for crop growth and increases crop yields. Average worldwide yield increase: 12% over 25 years in more than 100 trials in over 20 countries.

Results: Application of Soil+ following corn harvest in eleven locations in Nebraska, lowa and Minnesota, USA decreased soil compaction compared to untreated control (Table 1). With Soil+ application, reduction of soil compaction ranged from 4.6% to 26.4% in Nebraska, 8.5% to 9.9% in Iowa and from 10.8% to 15.0% in Minnesota.

Influence of Soil+ on reduction of soil compaction. Nebraska, Iowa and Minnesota, USA.

Location	Cooperator	Soil Compaction PSI (MPa)*		Difference
		Control	Treated	
Herman, NE	Scoular, Inc. Bill Matine	163 (1.13)	156 (1.08)	4.6%
Tahemah, NE	Midwest Svc. Co. Mike Maxwell	122 (0.84)	97 (0.67)	26.4%
Bancroft, NE (nearest house)	Art Nitzche	262 (1.81)	222 (1.53)	18.0%
Bancroft, NE (near schoolhouse)	Art Nitzche	278 (1.92)	231 (1.59)	20.5%
Oakland, NE	Larson Farm Services	171 (1.18)	156 (1.08)	9.6%
Guthrie Center, IA	Brummer's Ag. Supply	211 (1.46)	192 (1.32)	9.9%
Woodward, IA	John Gosch	213 (1.47)	197 (1.36)	8.5%
Wabasso, MN (treated 2x)	Crop Production Svcs. Mel Welle	174 (1.20)	157 (1.08)	10.8%
Wabasso, MN	Crop Production Svcs. Leaon Otto	185 (1.28)	166 (1.14)	11.4%

Bacillus Clostridium Flavobacterium Micrococcus

Bacteria Species That Improve Soil Condition

Bacillus Species and Clostridium Species

Decompose organic matter by secreting enzymes which catalyze degradation of proteins, starches, hemicellulose and other organic substances

Flavobacterium Species and Micrococcus Species

Decompose polysaccharides including lignin.

Technical Data Reports • Cytozyme Laboratories, Inc.

^{1.} Effect of Soil+TM on Populations of Soil Bacteria and Bacteriophage. Conducted by R. A. Normand, Northeast Louisiana University, Monroe, Louisiana, USA. Prepared by Pawel Wiatrak, Ph.D., Director of Technical Services, TDR • SOILUSLA8002

^{2.} Effects of Soil+ M on Reduction of Soil Compaction. Researchers: Bob Mayberry, John Gosch and John Pollock, Helena Representatives. Prepared by Pawel Wiatrak, Ph.D., Director of Technical Services, TDR • SOILUSNE9101

^{3.} Evaluation of Soil+™ Applications on Production of Irrigated Soybeans. Prepared by Pawel Wiatrak, Ph.D., Director of Technical Services, TDR • SBEAUSC01201

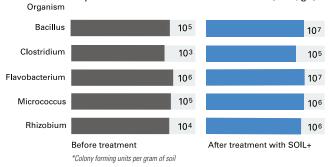




SOIL+ Mode of Action

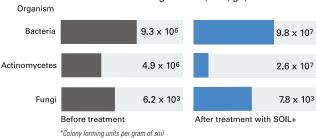
SOIL+ supports populations of native beneficial soil microorganisms. Helping to reduce soil compaction and improve soil structure through increased soil microbe populations — increasing yields.

Population of Beneficial Soil Bacteria(CFU/g*)



Source: Northeast Louisiana University





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Application:

SOIL+

Method of Application

SOIL+ may be applied to soil anytime, using

- Conventional spraying equipment
- · Irrigation lines or ditches
- Overhead sprinklers
- Drip irrigation

Dilute 1 part SOIL+ with 5 parts water prior to mixing with per-diluted chemicals. As much water as possible should be used for maximum coverage and penetration.

Rate of Application

Application rates depend on soil type. Use higher rates and more applications on soils low in organic matter. Soils of low productivity can benefit from more than one application per year.

Soil Type	Broadcast	Banded
Sandy	2.0 liter/ha (28 fl. oz/ac)	1.0 liter/ha (14 fl. oz/ac)
Loam	1.5 liter/ha (20 fl. oz/ac)	0.75 liter/ha (10 fl. oz/ac)
Clay	1.0 liter/ha (14 fl. oz/ac)	0.5 liter/ha (7 fl. oz/ac)

(See product label for details).