

Environmental Stress Benefits

Acetoin BS, BA	Secretes acetoin which triggers induced systemic resistance (ISR), mediating stress
Cytokinin AB	Secretes cytokinin, a biochemical messenger supporting plants under stress
Exopolysaccharides BS	Secretes EPS which forms a biofilm layer on roots mitigating damage from abiotic stress
Gibberellic Acid AB	Secretes GA which plays a central role in the plant's response to abiotic stress
IAA PP, AB	Secretes IAA, a common auxin that enables cell division and movement of photosynthates
PAL BS, BA	Secretes PAL, a key enzyme that supports systemic resistance against abiotic stress

Microbial Species	Abbreviation	Microbial Species	Abbreviation
Azospirillum brasilense	AB	Cellulomonas cellsea	CC
Bacillus amyloliquefaciens	BA	Pseudomonas fluorescens	PF
Bacillus subtilis	BS	Pseudomonas patida	PP



Plant Nutrition Benefits

Phosphorus BS, BA, AB, PF	Able to solubilize and make plant available insoluble forms of phosphate
Nitrogen AB	Capable of fixing atmospheric nitrogen (N ₂) into biologically useable and available ammonia
Potassium PP	Able to solubilize insoluble forms of potassium
Zinc PF	Able to solubilize insoluble forms of zinc
Sulfur BS	Able to convert (oxidize) insoluble sulfur into plant available sulfates
Iron BS, AB, PF	Able to convert insoluble forms of iron into iron-chelating siderophore compounds

Biodegradation Benefits

Amylase BS, BA	Secretes amylase, an enzyme that hydrolyzes starch and breaks it down into smaller sugars
Cellulase BS, BA, CC	Secretes cellulase, an enzyme that breaks down cellulose into its monosaccharide units
Glucanase BS, BA	Secretes glucanase, an enzyme that breaks down large polysaccharides like glucans
Laccase BS, BA	An enzyme that biodegrades lignin and can oxidize and degrade aromatic pollutants
Lipase BS	Secretes lipase to help support the break down of fats, oils, and lipids
Protease BS, BA	Secretes protease, an enzymes that break down proteins down into amino acids
Urease BA	Secretes urease, enzyme capable of breaking down urea into ammonia and CO ₂
Xylanase BS, BA	Secretes xylanase, an enzyme that breaks down hemicellulose in plant cell walls

ReNew™
Science. Solutions. Success.

ReNew™ is intended to increase nutrient release supporting crop growth and vigor.

Guaranteed Minimal Analysis:
 Ascomycetum basidiomycetes 1 x10¹⁰ CFU/mL
 Bacillus subtilis 1 x10¹⁰ CFU/mL
 Cellulomonas cellsea 1 x10¹⁰ CFU/mL
 Pseudomonas fluorescens 1 x10¹⁰ CFU/mL
 Pseudomonas patida 1 x10¹⁰ CFU/mL

General Information: ReNew™ is a microbial solution containing a diverse team of naturally derived beneficial microorganisms without genetic modifications. Use of the product results in increased nutrient release, stimulation of root conditions for greater root establishment and greater root mass. ReNew™ harnesses the power of microorganisms to solubilize and release insoluble forms of phosphorus making them available for uptake by the plants.

Storage & Handling: Please store at room temperature or below. Keep product out of direct sunlight. DO NOT FREEZE.

Manufactured By: Cangrow Crop Solutions
3971 Old Walnut Rd.
Alvinston, ON, N0N1A0
519-847-5748 www.cangrow.com

Net Weight:
Volume: 50.0 L
Weight: 50.0 kg
Density: 1.01 kg/L

Mixing Instructions: For best results, shake well before use. If combining with other products avoid having them mixed together for extended periods of time. Some chemicals can be detrimental to the microbes. If mixing with other products, it is best to mix right before application. Always perform a jar or arena compatibility test.

Directions of Use:
Apply 12 L/ha (500 mL/acre) of ReNew™ for all field crops including corn, soybeans, wheat, barley, oats, alfalfa, sorgho, peanuts, sugar beets, sunflower and all other field crops. It can be applied through planters, sprayers, micro-spreaders, and center pivot irrigation. For best results apply ReNew™ at planting. It can be applied in furrows, side dressed, banded on the soil or mixed with fertilizers.

ReNew™ can also be applied by top-dressing or banded on the soil or mixed with fertilizers.

CAUTION: KEEP OUT OF REACH OF CHILDREN. This product contains live microorganisms that may be harmful if swallowed. Avoid inhalation, ingestion, and contact with skin and eyes. Wear protective gloves/eye protection, clothing, eyes and face protection.

IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs. Get medical advice/attention.

IF IN EYES: Flush cautiously with water for several minutes. If eye irritation persists. Get medical advice/attention.

IF SWALLOWED: Rinse mouth. Call a poison control center or doctor if you feel unwell.

Warning: A number of the live strains within this ReNew product possess the capability to break down and degrade aromatic pollutants. Do not use this product in areas where the presence of these pollutants may be a concern. Do not use this product in areas where the presence of these pollutants may be a concern. Do not use this product in areas where the presence of these pollutants may be a concern. Do not use this product in areas where the presence of these pollutants may be a concern.

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ReNew™ - Biological Fertilizer & Stimulant

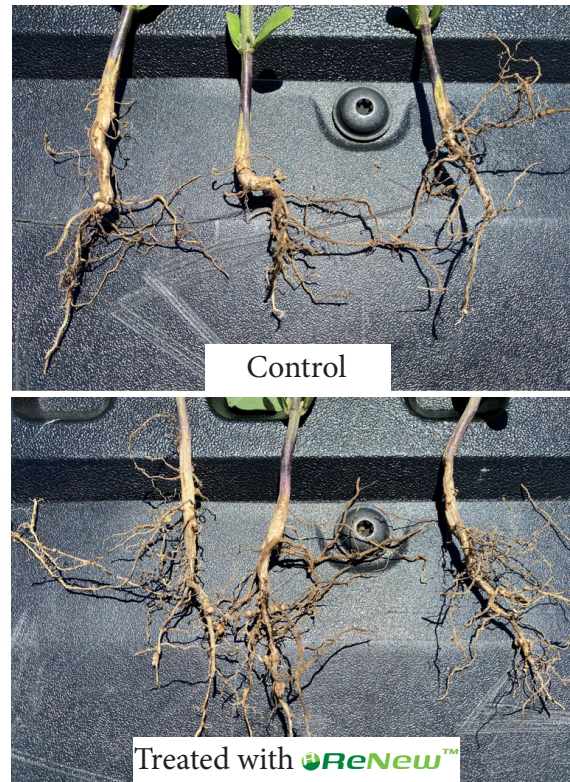
Stronger Plants, Stronger Profits

ReNew™ offers a diverse team of microbes that are not genetically modified, non-pathogenic, and 100% naturally occurring. ReNew™ helps promote the fundamental relationship between the plant and soil to ensure efficiency and maximize the plant's ability to grow.

ReNew™ provides a team of beneficial microbes that improve nutrient availability and increased abiotic stress tolerance for plants. ReNew™ is easy to use, just add to water or liquid starter in-furrow.

These microbes support:

- Nitrogen fixing
- Phosphorus solubilization
- Sulfur, Zinc, Iron, and other nutrient increased availability
- Production of environmental stress reducing factors such as EPS and PAL
- Production of biodegradable enzymes such as cellulase, laccase, urease, and xylanase



Application Rate

In-Furrow or 2x2: 470 mL (16 oz) per acre

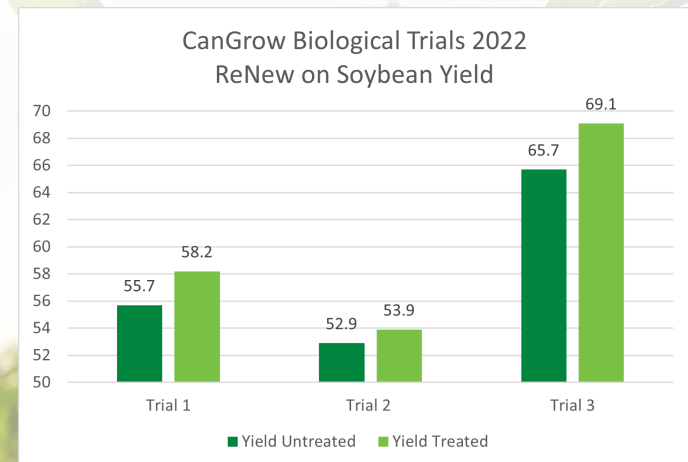
2022 Ontario Field Trials

Multiple trials were completed within Ontario during the 2022 growing season with ReNew™. 3 different crops were studied, and each resulted in positive yield increases and return on investment.

Soybean trials resulted in an average yield increase of 2.3 bushels/acre and an average return of investment (ROI) of \$29.40/acre.

Corn trials resulted in an average yield increase of 3.0 bushels/acre.

Potato trials resulted in an average yield increase of 17.0 hundredweight (cwt).



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