

# HOW DOES ECOTEA™ WORK?

## THREE PART MIX & APPLY SYSTEM



### PART A

EcoTea™ HDI - Liquid Inoculum comes in a 1000 L (250 Gallon) tote. For dilution rates, refer to mixing instructions included with your product.



### PART B

EcoTea™ Liquid Microbial Foods comes in 2 – 20 L pails.



### PART C

EcoTea™ Catalyst comes in a 20 L pail. Depending on application you will get a Balanced, Foliar or Fungal Catalyst.

**Storage and Shelf Life** - EcoTea™ HDI has a 90 day shelf life. Liquid Microbial Foods has a 60 day shelf life. EcoTea™ Catalyst has a 365 day shelf life. Avoid temperature extremes (hot and cold) and store in a cool dark environment. Do not let freeze.

EcoTea™ is available for In-Furrow, Foliar and Residue Management applications.

EcoTea™ Seed Dressing product is available in dry and liquid formats.

EcoTea™ HDI consists of three parts. Simply mix thoroughly and apply. Make sure to read and follow mixing instructions that come with the product. Contact your regional EcoTea™ Sales Manager if you have any questions.



WWW.ECOTEA.CA

Visit our website to see who distributes and supports our product in your region.

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# EcoTea™ contains...



Bacteria | Protozoa | Fungi | Nematodes | Micro-Invertebrates

## that help supply the basic elements plants need.



Nitrogen | Calcium | Iron | Magnesium | Zinc | Copper

### South East Saskatchewan Pea Crop 2019

Highest yielding peas in farms history spanning 3 generations. Close to 60 bu/ac on 6 inches of rain. Excellent pea nodulation.



Apply mixed diluted EcoTea™ 1:3 parts dechlorinated water with coarse nozzles. Maximum screen size should be 300 microns (50 mesh). 50 psi or lower.

EcoTea™ Liquid Microbial Foods: Liquid kit seeding (discs) 30 or larger.

Disc Seeder: 1/4 inch line is best (ex: Alpine Kit - b/w 20-60 orifice). Drip Tape compatible. Greenhouse emitters 300 microns or larger.

For Residue Sprays: TeeJet nozzle/floodjet 0.08 (white) or larger boomless nozzle 0.10 or larger.

Approved for organic production by



## WHAT ELSE DOES ECOTEA™ OFFER?

- Helps Restore Soil Biodiversity
- Provides Immediate Nutrients
- Stimulates Plant Growth
- Improves Soil Nutrient Retention
- Improves Soil Structure
- Helps Increase Pest Resistance
- Helps Suppress Disease

# EcoTea™

## Plant Beneficial Microbes For Your Soil and Crops



## BROAD SPECTRUM BIOLOGY



IN-FURROW



FOLIAR



RESIDUE



SEED DRESSING

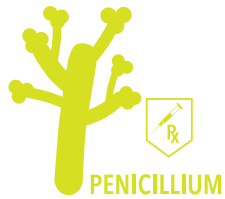


OvertonEnvironmental  
ENTERPRISES INC  
MANUFACTURED IN MANITOBA, CANADA

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## FUNGI



## BACTERIA



BACILLUS



PSEUDOMONAS



RHIZOBIUM



AZOSPIRILLUM



BURKHOLDERIA



ENTEROBACTER



STREPTOMYCES



Antibiotic Producing



Iron Scavenging



Phosphorus Solubilizing



Nutrient Cycling



Nitrogen Fixing



Plant Hormone Producing

In the presence of a pathogen, some of our microbes can produce antibiotics to fight against it.

Some EcoTea™ bacteria help plants find and take up iron, which improves plant quality.

Some EcoTea™ microbes can solubilize phosphorus that is locked up in soil aggregates. This can reduce the amount of Phosphorous applied, by up to 20%.

Our protozoa “feed” off of the functional bacteria releasing valuable nutrients in the root zone of the plant.

Bacteria in EcoTea™ are capable of fixing Nitrogen gas (*from the atmosphere*) to an organic form of Nitrogen available for plants.

Our bacteria can produce a variety of plant growth hormones. (*IAA, cytokinins, gibberellins, ethylene*)

### INCREASES PEST RESISTANCE AND DISEASE SUPPRESSION:

The beneficial microorganisms in EcoTea™ consume harmful herbivores and pathogenic organisms but does not harm beneficial insects. As well the microbes compete for the space and resources with harmful bacteria and pests, thus inhibiting their presence. Stronger and healthier plants are better suited to resist the attack of pest insects. Also, in the presence of pathogens, several of our microbes have the ability to produce small amounts of antibiotics to fend off the disease.

**RESTORES SOIL:** Many agricultural soils are under stress from chemical fertilizers, pesticides, herbicides and fungicides. These chemicals eliminate much of the soil biodiversity and under these conditions micro-invertebrate, bacterial and fungal pests are able to proliferate. EcoTea™ re-introduces the beneficial microorganisms into the soil and restores it to a more natural, healthy form.

**PROVIDES IMMEDIATE NUTRIENTS:** The nutrients present in soil must be in particular forms in order for plants to benefit from them and many are locked up in humic materials within soil aggregates. Humic materials are processed by bacteria and protozoa unlocking the stored nutrients, Nitrogen in particular, into forms useful to plants. The beneficial organisms in EcoTea™ feed on substances naturally present in the soil, unlocking them for plant use as required by plants.

**STIMULATES PLANT GROWTH:** Our microorganisms release micro-nutrients, plant hormones and enzymes into the root zones, readily available for plant uptake. In return, the plant releases sugars into the surrounding soil as a fuel source for microbes. By utilizing these hormones and enzymes, plants do not need to expend energy creating them and in turn can focus on more vigorous growth

**IMPROVES SOIL NUTRIENT RETENTION:** When synthetic nutrients are added to soil, nothing holds them in place. With irrigation and rainfall, nutrients often swiftly drift below the root zone rendering them useless to plants. Nutrient leaching contributes to ground water contamination in areas of intense agriculture and leads to soil acidification. EcoTea™ microbes extend the reach of the plant roots making use of nutrients applied.

**IMPROVES SOIL STRUCTURE:** EcoTea™ will naturally improve the structure of your soil via microbial, fungal and invertebrate action. This allows oxygen to move into and through the soil. It allows plants to easily move their roots through the soil, (Many of our Fungi attach to the root hair and can increase the reach of the plant roots. They act as micro highways for the bacteria to travel from the nutrient source back to the plant root.) It improves moisture retention which is a key component in microbe function. It improves your soil's ability to deal with erosion and compaction.

## PROTOZOA

