

A g r i S c i e n c e activeagriscience.com

TECHNOLOGY BEYOND the POINT of NUTRITION™

Active AgriScience Inc. supports the farming community by providing innovative, effective and economical products. A leader in plant nutrient and bioactive compound research and technology, Active AgriScience uses rigorous scientific methods to develop full cycle fertilizer and nitrogen management solutions to help enhance crop potential while being mindful of environmental impacts.

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PREMIUM SEED NUTRIENT DRESSING



Active PRIME[™] enhances the seeds' ability to germinate and quickly produce more and stronger roots. This results in hardier seedlings, more capable of withstanding less than ideal environmental conditions.



GUARANTEED MINIMUM

| ANALISIS: | |
|-----------------------------------|-------|
| Total Nitrogen (N) | 3.75% |
| Available Phosphate (P2O5) | 15% |
| Soluble Potash (K ₂ O) | 4.5% |
| Boron (B)(actual) | 0.05% |
| Iron (Fe)(actual) | 0.01% |
| Manganese (Mn)(actual) | 0.8% |
| Zinc (Zn)(actual) | 0.9% |
| | |

ENHANCED GERMINATION:

Active PRIME induces synthesis of zeatin, which is a cytokinin that promotes shoot growth, resulting in faster and higher rates of germination.

STRONGER ROOT GROWTH:

Active PRIME induces the indole-3-butyric acid (IBA) pathway resulting in higher levels of IBA in tissues leading to earlier and quicker root growth and development. As a result, Active PRIME treated plants are better able to maintain strong growth under drought stress

REDUCED TRANSPIRATION:

Active PRIME helps increase xylem pressure through positive water potential, and enhanced elasticity of the xylem, and also helps to regulate stomatal function to reduce excess water loss.

INCREASED WATER USE EFFICIENCY:

Active PRIME inhibits both ethylene synthesis and free radical formation under drought conditions. Ethylene and free radicals destabilize plant membranes, through fluidization and lipid peroxidation, resulting in water leakage and quicker wilting. Active PRIME treated plants have inherent resistance to these drought-induced changes with greater water use efficiency.

INCREASED NUTRIENT MOBILIZATION AND ABSORPTION:

Active PRIME increases secretion of root exudates into the rhizosphere that increase bound nutrient mobilization, availability, and root interception. Active PRIME treated plants also show increased uptake of nutrients mobilized by mass flow.

INCREASED PERFORMANCE UNDER STRESS CONDITIONS:

Active PRIME has a simple molecular structure that allows for its activity to be less affected by unfavourable conditions, and its ability to simultaneously up-regulate desirable pathways and down-regulate undesirable pathways allows plants to maximize their genetic potential under cold, wet or drought conditions.

INCREASED FUNCTION UNDER WIDE RANGE OF PH:

Active PRIME contains simple organic molecules that act as either weak acids or bases to pH buffer solutions. Therefore, its function and efficacy are preserved under various pH regimes.



MIXING INSTRUCTIONS:

ALWAYS READ LABEL BEFORE USE.

1. Apply Active PRIME[™] as a seed nutrient dressing at 4 ml / kg of seed.

2. Seed coating can be done simultaneously with Active PRIME™ and compatible agrochemicals (see Compatibility Chart).

3. If using Active PRIME[™] without additional agrochemicals, use equal amounts of water and Active PRIME [™] (1:1) to sufficiently coat seeds. Calibrate equipment to release the required amount of the Active PRIME[™] mixture based on seed flow rate.

4. Thoroughly mix seeds with the Active PRIME[™] mixture. A colouring additive allows a visual check to ensure all seeds are uniformly coated.

5. Let the treated seeds air dry for
 5-10 min before seeding.

* 3RD party field research with Ag-Quest, BC Grain, ICMS, Mara and New-Marc Research

ACTIVE AGRISCIENCE DISCLAIMER: Presented Data and product attributes will not guarantee the future efficacy and product attributes as these vary greatly related to weather conditions oil types and genetics of cross. It is understood and agreed that Active AgriScience Inc. ("Active") does not guarantee that use of its Products will yield any specific result. Active's legal liability, and that of its employees or agents, arising from use of its products shall be limited to the cost paid for the product regardless of whether any loss arose from Actives own negligence, breach of contract, or any other cause. Under no circumstance shall Active be liable, beyond the cost paid for the product, for direct consequential, incidental, or special damages, including, but not limited to, damage or destruction of a crop, or contamination of any property.

3 70 2.7 65 bu/acre 60 55 50 45 45 2.7 40 2.7 35 50 30 50







WHEAT • 6 YEAR AVERAGE YIELD DATA *

| TREATMENTS | YIELD - 2013 (bu/acre) | YIELD - 2014 (bu/acre) | YIELD - 2015 (bu/acre) | YIELD - 2016 (bu/acre) | YIELD - 2017 (bu/acre) | YIELD - 2018 (bu/acre) | 6 YEAR AVERAGE (bu/acre) | % CHANGE |
|------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|--------------------------------|----------|
| Check | 77.0 | 63.3 | 50.9 | 45.3 | 68.2 | 37.5 | 57.0 | 0 |
| Active PRIME [™] | 81.0 | 66.1 | 54.2 | 47.3 | 70.9 | 38.8 | 59.7 | 4.7 |

CANOLA • 6 YEAR AVERAGE YIELD DATA*

| TREATMENT | YIELD - 2013 (bu/acre) | YIELD - 2014 (bu/acre) | YIELD - 2015 (bu/acre) | YIELD - 2016 (bu/acre) | YIELD - 2017 (bu/acre) | YIELD - 2018 (bu/acre) | 6 ΥEAR AVERAGE (bu/acre) | % CHANGE |
|------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|--------------------------------|----------|
| Check | 45.0 | 52.0 | 42.3 | 33.8 | 57.7 | 38.85 | 44.1 | 0 |
| Active PRIME™ | 49.0 | 59.6 | 44.7 | 35.7 | 58.4 | 39.9 | 46.7 | 5.9 |

OATS • 3 YEAR AVERAGE YIELD DATA*

| TREATMENTS | YIELD-2016 (bu/acre) | YIELD-2017 (bu/acre) | YIELD-2018 (bu/acre) | 3 YEAR AVERAGE (bu/acre) | % CHANGE |
|------------------|-------------------------|-------------------------|-------------------------|--------------------------------|----------|
| Check | 138.1 | 159.6 | 70.6 | 123.0 | 0 |
| Active PRIME™ | 143.5 | 157.7 | 71.2 | 124.0 | 0.8 |

PEAS • 2 YEAR AVERAGE YIELD DATA *

| TREATMENTS | YIELD-2016 (bu/acre) | YIELD-2017 (bu/acre) | 2 YEAR AVERAGE (bu/acre) | % CHANGE |
|------------------|-------------------------|-------------------------|--------------------------------|----------|
| Check | 51.3 | 54.5 | 53.1 | 0 |
| Active PRIME™ | 54.5 | 62.2 | 58.4 | 10 |

Active PRIME[™] EFFECT



Due to soil conditions, weather, pests, diseases, tank mix partners, applications rates, & errors in mixing and application, Active AgriScience can't guarantee its products will provide a yield advantage. We encourage all prospective customers to run trials of our products before broad acreage adoption. Active AgriScience 100% guarantees the quality of its products with a 18 month free replace warranty. To aid consumers to make informed purchasing decisions all Yield Data posted on our Website & App is from Certified 3rd Party Tests.