ACTIVE™
AgriScience
activeagriscience.com

TECHNOLOGY BEYOND the POINT of NUTRITION™

Active AgriScience Inc. supports the farming community by providing innovative, effective and economical products that increase yields. A leader in plant nutrient and bioactive compound research and technology, Active AgriScience uses rigorous scientific methods to develop and enhance products to improve farm production and profits.

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precision Starter

PREMIUM SEED NUTRIENT DRESSING

Precision Starter™ BENEFITS

GUARANTEED MINIMUM ANALYSIS:

Total Nitrogen (N).....3.75%
Available Phosphate (P_2O_5).....15%
Soluble Potash (K_2O).....4.5%
Boron (B)(actual).....0.05%
Iron (Fe)(actual)..... 0.01%
Manganese (Mn)(actual).....0.8%
Zinc (Zn)(actual)..... 0.9%

ENHANCED GERMINATION:

Precision Starter™ induces synthesis of zeatin, a cytokinin, to promote shoot growth, resulting in faster and higher rates of germination.

STRONGER ROOT GROWTH:

Precision Starter™ 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, Precision Starter™ treated plants are better able to maintain strong growth under drought stress.

REDUCED TRANSPIRATION:

Precision Starter™ helps increase xylem pressure through positive water potential, and enhanced elasticity of the xylem, and helps to regulate stomatal function to reduce excess water loss.

INCREASED WATER USE EFFICACY:

Precision Starter™ combats drought induced changes in plants by inhibiting both ethylene synthesis and free radical formation. Ethylene and free radicals destabilize plant membranes, through fluidization and lipid peroxidation, resulting in water leakage and quicker wilting. Precision Starter™ treated plants exhibit greater water use efficiency and inherent resistance to these drought-induced changes.

INCREASED NUTRIENT MOBILIZATION AND ABSORPTION:

Precision Starter™ increases secretion of root exudates into the rhizosphere leading to increased bound nutrient mobilization, availability, and root interception. Precision Starter™ treated plants also show increased uptake of nutrients mobilized by mass flow.

INCREASED PERFORMANCE UNDER STRESS CONDITIONS:

Precision Starter™ benefits are unaffected by unfavourable conditions. It maintains the ability to simultaneously upregulate desirable pathways and downregulate undesirable pathways, allowing plants to maximize their genetic potential under cold, wet or drought conditions.

INCREASED FUNCTION OVER A WIDE pH RANGE:

Precision Starter™ contains simple organic molecules that act as either weak acids or bases to pH buffer solutions. This preserves Precision Starter's function and efficacy over various pH ranges.

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MIXING INSTRUCTIONS:

ALWAYS READ LABEL BEFORE USE.

1. Apply Precision Starter™ as a seed nutrient dressing at 4 ml / kg of
seed.

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

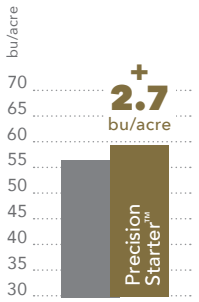
3. If using Precision Starter™ without additional agrochemicals, use equal amounts of water and Precision Starter™ (1:1) to sufficiently coat seeds. Calibrate equipment to release the required amount of the Precision Starter™ mixture based on seed flow rate.

4. Thoroughly mix seeds with the Precision Starter™ 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*

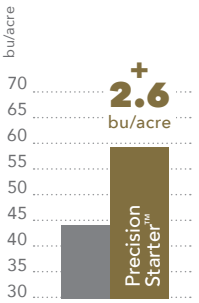
WHEAT



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
Precision Starter™	81.0	66.1	54.2	47.3	70.9	38.8	59.7	4.7

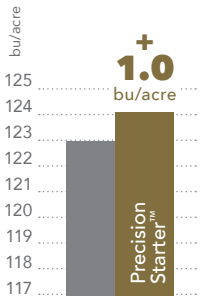
CANOLA



CANOLA • 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	45.0	52.0	42.3	33.8	57.7	38.85	44.1	0
Precision Starter™	49.0	59.6	44.7	35.7	58.4	39.9	46.7	5.9

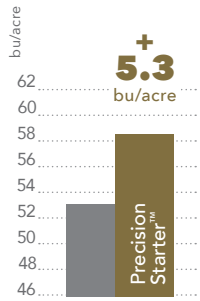
OATS



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
Precision Starter™	143.5	157.7	71.2	124.0	0.8

PEAS



PEAS • 2 YEAR AVERAGE YIELD DATA *

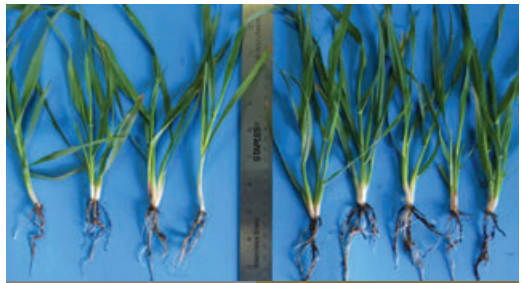
TREATMENTS	YIELD-2016 (bu/acre)	YIELD-2017 (bu/acre)	2 YEAR AVERAGE (bu/acre)	% CHANGE
Check	51.3	54.5	53.1	0
Precision Starter™	54.5	62.2	58.4	10

PRECISION STARTER EFFECT

Check | Precision Starter™

Check | Precision Starter™

Check | Precision Starter™



Check | Precision Starter™