



Crystal Green[®]
5-28-0-10Mg

UNITED STATES

Washington, Idaho, Montana,
North Dakota, Minnesota



HERE'S A BETTER WAY TO FEED YOUR CANOLA CROP



Crystal Green[®] is the first continuous release granular fertilizer to provide Root-Activated[™] phosphorus, feeding canola the P it needs all season long; and has a low salt index, reducing seedling injury.

LOWER SALT INDEX, INCREASED SEED SAFETY

It's a proven fact that the salt index of traditional phosphorus sources, such as MAP and others, cause injury to canola when placed near the seed. This seedling injury reduces stand count and yield. In contrast, Crystal Green's salt index is extremely low, only one quarter of that which is found in MAP. This reduced salt index increases seed safety by reducing salt injury, resulting in an increase in stand count and ultimately, yield.

SALT INDEX

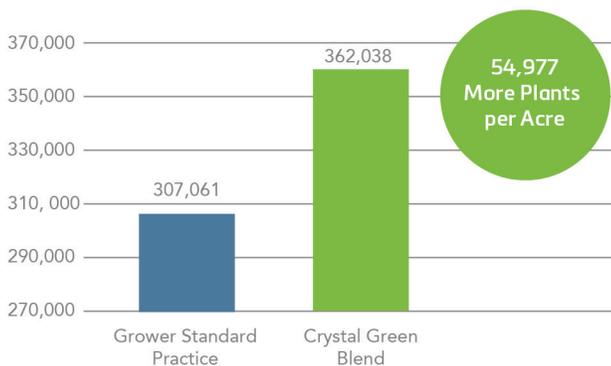
	DAP	MAP	S15	Crystal Green.
Salt Index	29	27	21	7.7

SUPERIOR STAND COUNT

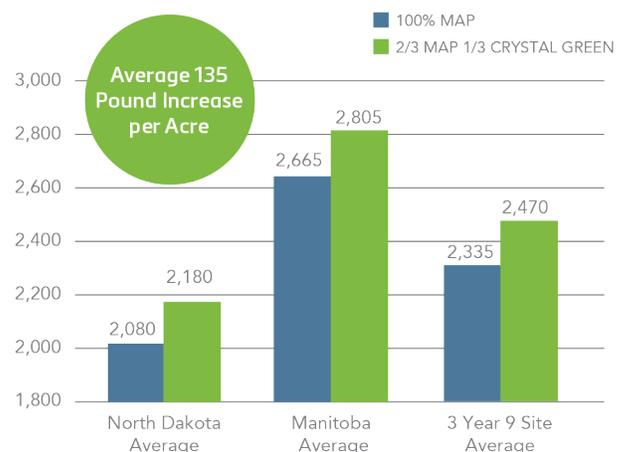
Two years of replicated Manitoba trials show that adding Crystal Green to a seed placed fertilizer program reduced the salt effects near the seed and increased stand count when compared to the grower standard practice.

INCREASED STAND COUNT = INCREASED YIELD

US and Canadian trials, over three years and across nine sites, show that adding Crystal Green to a seed placed fertilizer program reduced the salt effects near the seed, increased stand count, and resulted in yield increases that averaged 135 pounds per acre.



Crystal Green Effects on Stand Count (per acre)
AgQuest; Minto, MB; New Era, Swan Lake, MB; 2017-18



Crystal Green Effects on Yield (pound per acre)
AgQuest and ICMS, Manitoba; AgroTech and Vision Research, North Dakota; 2016-18

HOW CRYSTAL GREEN WORKS

Crystal Green has a unique Root-Activated™ mode of action; when the plant exudes organic acids Crystal Green releases nutrients. This continuous release of nutrients allows for increased efficiency of phosphorus uptake by the plant while helping to minimize phosphorus tie-up in the soil.

Canola is a phosphorus hungry crop. Until now, too much seed-placed phosphorus has had negative effects on stand and yield. Using Crystal Green in your seed-placed fertilizer blend not only increases seed safety, but also provides season-long phosphorus to your canola fertilizer program.

GUARANTEED ANALYSIS

Total Nitrogen (N).....5%
 5% ammoniacal nitrogen
 Available Phosphate (P₂O₅).....28%
 Magnesium (Mg)10%

Derivation: Magnesium ammonium phosphate hexa-hydrate
 (MgNH₄PO₄ • 6H₂O)

ATTRIBUTES AND BENEFITS

- ▶ Root-Activated™, continuous release phosphorus with nitrogen & magnesium
- ▶ Low salt index compared to MAP
- ▶ Available in SGN 300, 150, 90 sizes for blends or straight use
- ▶ Replace 1/3 of the MAP in your normal spring planting blend with Crystal Green

WITH CRYSTAL GREEN, CANOLA THRIVES

When canola receives the phosphorus it needs from Crystal Green, nutrient demands are met throughout the growing season and the seedling is kept safe thanks to Crystal Green's low salt index. This seedling safety translates into increased plant stand and increased yield in your canola crop. In addition, Crystal Green remains plant-available even in extremely low or high soil pH environments so no matter where you plant, your canola crop can thrive.

Contact your Crystal Green representative:

Justin Miller - Director, Technical Sales

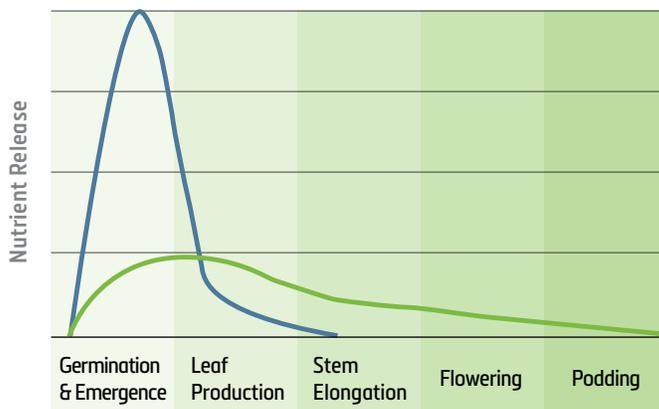
E jmiller@crystalgreen.com | T 701.426.2358

PERFORMANCE GUARANTEED

We are so confident in Crystal Green's performance in your fertilizer blend, that we guarantee it. Through our Satisfaction Promise Program, growers can rest assured that their additional fertilizer investment is protected by signing up at the time of purchase with your Local Fertilizer Retailer.

NUTRIENT RELEASE CURVE

- Conventional Phosphorus
- Crystal Green®



Source: Accelerated Nutrient Release Study, Applied Chemical Technologies, 2012



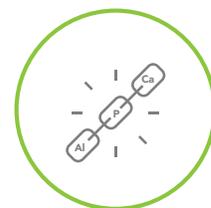
ONE SEASON-LONG APPLICATION



ROOT-ACTIVATED™



INCREASE PLANT STAND & YIELD



MINIMIZES PHOSPHORUS TIE-UP

Ostara Nutrient Division

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CrystalGreen.com

Crystal Green® is sustainably produced by:



OSTARA