

# GROWING OILSEED CROPS WITH MAGNA AG

MAGNA is a partially soluble humic granule designed to deliver both immediate and lasting soil performance. Made from Canadian Humalite, Black Earth's Magna AG improves nutrient efficiency, soil structure, and early-season crop response when applied in-furrow at planting. Proven across oilseed systems in Manitoba and North Dakota, Magna delivers consistent yield gains and strong return under both favorable and stressed conditions.

## How Magna Works

Magna AG combines coarse humic granules with a soluble humate fraction, allowing it to work in two phases. The soluble portion activates quickly in the seed zone, improving nutrient availability and early root response. The granular fraction remains active longer, supporting soil structure, moisture retention, and nutrient holding capacity as the crop develops.

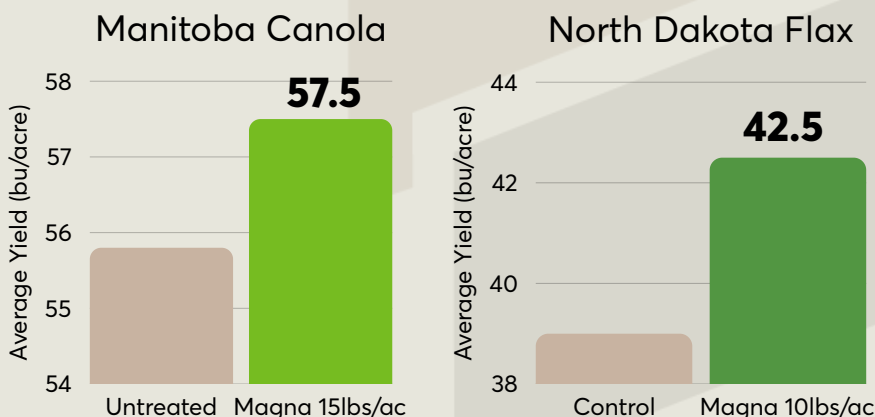
By increasing cation exchange capacity and reducing nutrient losses, Magna AG helps crops access applied and native nutrients more efficiently. This dual-action performance makes Magna AG effective across soil types, moisture conditions, and oilseed crops where early vigor and nutrient efficiency drive yield.



Up to 3.5 bu/ac yield increase and 5.5x ROI from a single in-furrow Magna AG application

## Performance Results

In-furrow trials conducted in Manitoba and North Dakota evaluated Magna AG across canola and flax under contrasting growing conditions, including favorable moisture and early-season drought. Results show consistent yield response and positive economic return versus untreated controls, supporting Magna AG as a reliable in-furrow humic for oilseed systems.



### Improved Nutrient Efficiency

Magna AG increases CEC and reduces nutrient tie-up, helping canola and flax access nutrients during early growth and peak demand.

### Stronger Early Establishment

Supports root development and early vigor, setting crops up for improved stand consistency and yield potential.

### Resilience Under Variable Conditions

Delivered consistent performance under both drought-stressed and well-watered environments.

### Simple In-Furrow Fit

Applies easily at planting with standard air drills and planters, adding value without changing agronomic programs.