FMC An Agricultural Sciences Company

Ratchet®

BIOLOGICALS by FMC

For Barley | Canola | Corn | Flax | Forage | Mustard | Oat | Potato | Pulses | Rye | Soybeans | Sunflower | Wheat

More Energy. More Potential.

Key Benefits:

- Foliar-applied LCO signalling molecule helps activate physiological responses that:
  - Increase photosynthetic efficiency and carbohydrate production to fuel plant growth
  - Supports reproductive development and yield potential – flowering, grain fill and overall crop performance
  - Support stress resilience by helping plants maintain productivity during periods of heat, drought and other environmental (abiotic) stresses
- Easy-to-use water soluble liquid formulation for in-tank compatibility with a wide range of crop nutrition and crop protection products.

Biological Active	Function
LCO (lipo-chitooligosaccharide) technology	Applied as a foliar treatment, LCO signalling molecule enhances photosynthetic activity, carbohydrate production, plant stress response, and supports improved yield.

Application Info:

Timing: During active vegetative growth through early reproductive development, coinciding with typical herbicide and/or fungicide timing.

Application: Ground or aerial

Repeat application: For split applications, make a second application 14 days after the initial treatment.

Packaging & Application Rates:

Packaging: 2 × 9.5 L jug

Application rate: 120 mL/ac (80 ac/jug) or 60 mL/ac for split applications (max 2 applications)

Ground application water volume: 38–76 L/ac (10–20 gal/ac)

Formulation: Liquid

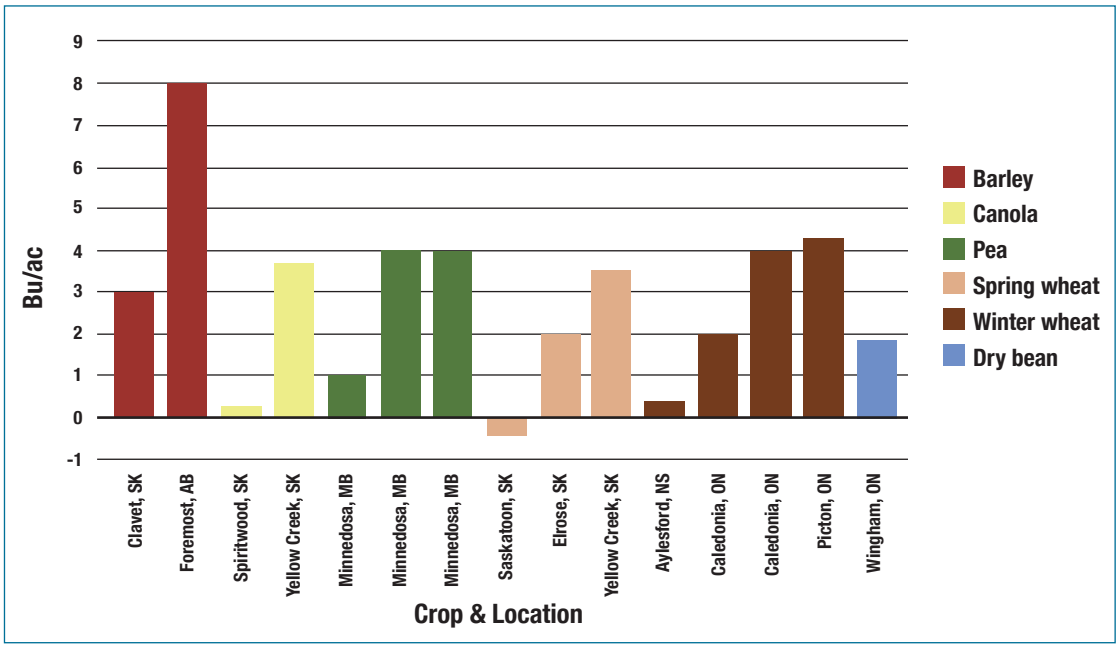
Tank-mix Compatability:

When tank-mixing, follow the most restrictive label limitations and precautions of all products in the mixture.



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Ratchet® yield increase over the untreated check (bu/ac); grower trials (n = 15). Average increase: 2.7 bu/ac
Individual results may vary depending on crop, environment and management practices.

Ratchet® increases kernel development and consistency, enhancing crop maturity and reducing the drying time needed at harvest.



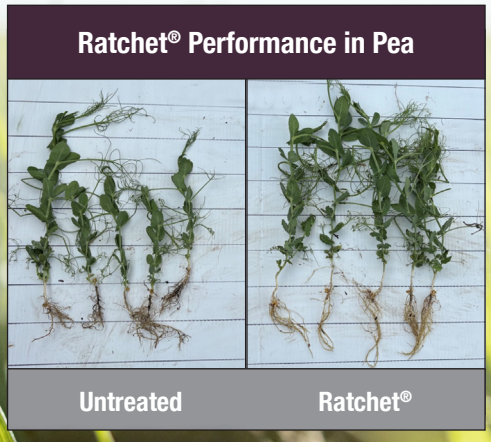
Source: Winkler, MB 2025

Ratchet® helps plants better withstand abiotic stress under drought conditions.



Source: FMC Stine Research Center, 2026

Ratchet® increased above-ground biomass and achieved a 4 bu/ac yield increase compared to untreated check.



Source: Minnedosa, MB June 18, 2025

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