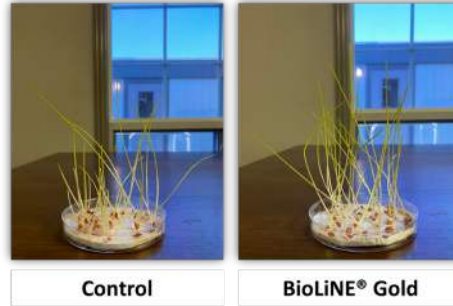


## Improve Cereal Grain with BioLiNE<sup>®</sup> Gold

### Even Emergence

BioLiNE<sup>®</sup> Gold treated winter wheat (photo on right) shows an improvement in even germination and development when compared to control in the same growing conditions.



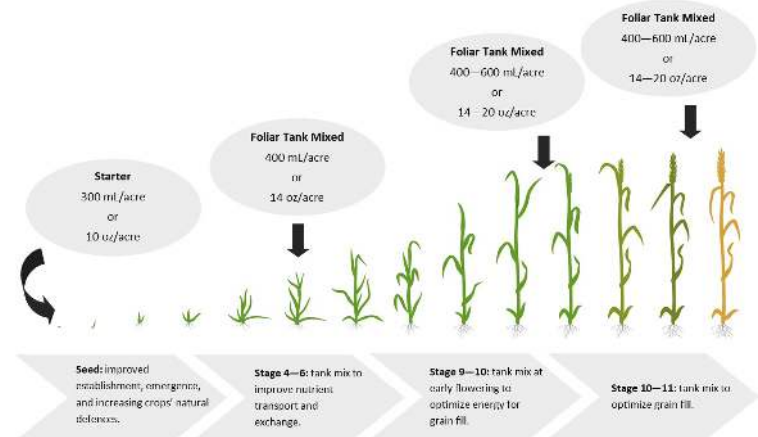
### Improve Nutrient Uptake

BioLiNE<sup>®</sup> Gold fulvic acid is a powerful complexing agent that binds to minerals and trace elements making them more available for the plant. By binding to these nutrients, BioLiNE<sup>®</sup> Gold prevents the nutrients from being lost through leaching or becoming locked in the soil.

Unlock the full potential of your soil and applied nutrients with BioLiNE<sup>®</sup> Gold. Promote healthier plants, improve yield, and maximize profits!

### Benefits of BioLiNE<sup>®</sup> Gold

- Preserve yield potential by arming the plant to adapt better to less than ideal environment conditions (drought).
- Improve nutrient efficiency and transport to developing kernels for optimum yield and quality.
- Increase root development and branching.
- Promote rapid and even emergence by nourishing crops and protecting the seed against abiotic stress.
- Invigorate soil biology through exchanging nutrients and organic carbon in the rhizosphere.
- Support the expression of plants genetic potential during critical reproductive growth stages.



### Recommended Application Rates

BioLiNE<sup>®</sup> Gold has multiple touch-point capabilities, providing growers with the ultimate tool to enhance nutrient transport and uptake within the plant. Our products are tank-mix compatible with most fertilizers or crop protection products.

#### Location:

BioLiNE Corporation  
3971 Old Walnut Rd.  
Alvinston, ON, N0N-1A0

#### Contact Us:

www.biolinecorp.ca  
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## Improve Cereal Grain with BioLiNE<sup>®</sup> Gold

This picture shows two Alberta dryland barley fields. BioLiNE<sup>®</sup> Gold was an ongoing tool relied on by both growers to manage their crops, especially in the heart of the 2021 drought. The crop on the left was treated twice with BioLiNE<sup>®</sup> Gold and even though the crop was thinner than most years, it held-up in the face of drought stress. The grower on the right used BioLiNE<sup>®</sup> on every crop acre on this farm and showed extra tillering and advanced head development on his cereal crop compared to other fields.



**BioLiNE<sup>®</sup> Gold was used as a seed treatment on wheat and emerged two (2) days earlier when compared to wheat seeded on the same day without BioLiNE<sup>®</sup> Gold.**

**- Colony Manager, Taber, AB**

### Drought in Wheat

Southern Alberta was hit with an intense drought in the 2021 growing season causing wheat yields to decrease from an average of 53.6 bu/ac in 2020 to 17.8 bu/ac (based on Alberta Crop Report). 5219 acres in this area was treated with BioLiNE Gold<sup>®</sup>, and the average yield increased to 33.4 bu/ac (an 87.6% increase over the county average).

Wheat	Average Yield (bu/ac)	Normalized
Wheatland County (Southern AB, 2020)	53.6	100%
Wheatland County (Southern AB, 2021)	17.8	33%
Acres treated with BioLiNE <sup>®</sup> Gold	33.4	62% <b>(+ 87.6%)</b>

### Drought in Barley

During the same intense drought in the 2021 season, average barley yields in southern Alberta also dropped from an average of 73.9 bu/ac in 2020 to 20.5 bu/ac (based on Alberta Crop Report). 4980 acres in this area was treated with BioLiNE<sup>®</sup> Gold, and the average yield increased to 45.6 bu/ac (a 122.4% increase over the county average).

Barley	Average Yield (bu/ac)	Normalized
Wheatland County (Southern AB, 2020)	73.9	100%
Wheatland County (Southern AB, 2021)	20.5	28%
Acres treated with BioLiNE <sup>®</sup> Gold	45.6	62% <b>(+ 122.4%)</b>

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