

IMPEL™

Nutrition

Biostimulant



Timing:
Foliar



Nutrient Type:
Micronutrients



Formulation:
Liquid



All nutrients are essential – add Impel with your pesticide.





Impel™ is the premium line of foliar micronutrients designed to address and overcome specific micronutrient deficiencies in the plant.

- Four foliar micronutrients available to meet your plant's needs: Impel Copper, Impel Zinc, Impel Manganese, and Impel Boron.
- The Impel line is 100% plant available and crop safe.
- Powered by Convey and Cellburst Technology.
- Impel improves fertilizer use by increasing the mobility and uptake of the nutrient in the plant.



Powered by CONVEY and CELLBURST Technology

Key Micronutrient Benefits to the Plant:

Micronutrient	Role of Nutrient	Deficiency Symptom	Micronutrient	Role of Nutrient	Deficiency Symptom
Copper Cu 63.55	Increases structural integrity and avoids pollen sterility		Manganese Mn 54.94	Enhances photosynthesis and nitrate assimilation in the plant	
Zinc Zn 65.39	Stimulates the production of natural growth hormones of the plant		Boron B 10.81	Essential for cellular strength, pollination and sugar movement	

Zinc Deficiency in Wheat



Visual Signs of Deficiency: Chlorotic lesions turning to necrotic zones on wheat

Manganese Deficiency in Soybeans



Visual Signs of Deficiency: Intervential chlorosis on the young leaves of soybean plants

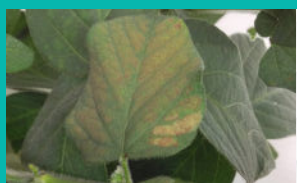
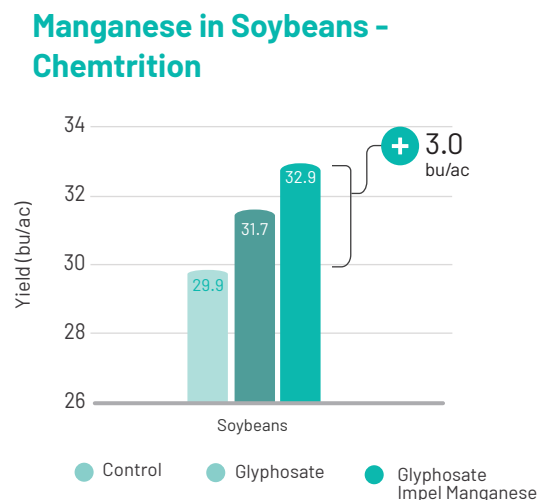
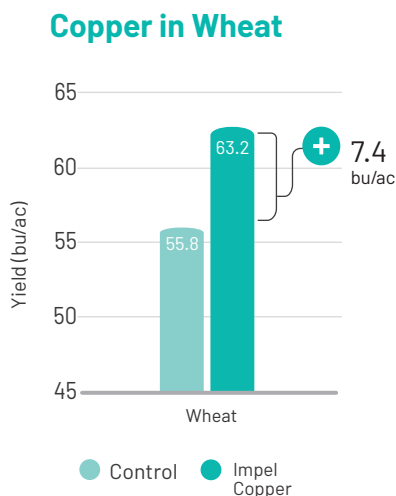
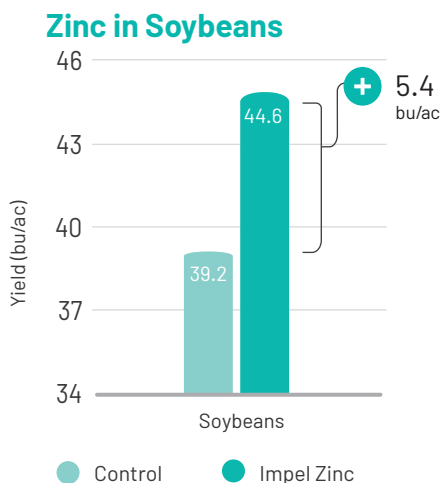
Boron Deficiency in Canola



Visual Signs of Deficiency: Distorted leaf growth on the growing points in canola

Proven Agronomic Performance

- Summary data collected by Dr. Patrick McMullan demonstrated the benefits of supplemental essential nutrition. The addition of Impel Zinc with Roundup enhanced productivity of Soybeans by an average of 5.4 bu/ac.
- Trial conducted in 2021 by a third party researcher reported a positive yield response (7.4 bu/ac) to a split application of Impel Copper.
- Data collected from trials from 2012 to 2014 have demonstrated the benefits of supplemental essential nutrition. The addition of Impel Manganese with glyphosate enhanced productivity in soybeans by 3 bu/ac.
- To review the complete Impel data package, please contact your ATP Technical expert today.



The addition of Impel Zinc with Roundup enhanced productivity of soybeans by an average of 5.4 bu/ac.

Product Recommendations

- Impel products can be applied throughout the growing season. For efficiency, Impel products can be added with the herbicide and/or fungicide application.
- Use proper water volume (minimum 10 gallons) to ensure uniform coverage and optimum uptake.
- Do not spray in the heat of the day or when plants are under moisture stress. Spray in the late evening or early morning.
- Tank mix compatibility is impacted by water quality which may vary by location, so conduct a jar test prior to combining Impel with a crop protection product or visit www.atpag.com for product compatibility information.

Product	Analysis	Rate (qt/ac)	Timing
Impel Boron	10.0B + Convey + Cellburst + TE	0.5-1.0	Foliar
Impel Copper	5.0Cu-2.5S + Convey + Cellburst	0.5-1.0	Foliar
Impel Manganese	5.0Mn-3.0S + Convey + Cellburst	0.5-1.0	Foliar
Impel Zinc	9.0Zn-3.8S + Convey + Cellburst	0.5-1.0	Foliar

TE = Trace elements critical to optimize nutrient use and proper plant growth

- To view the Impel Line's SDS and Product Labels please visit www.atpnutritionag.com.



At ATP, we believe a proactive, science-based approach to restore the balance between plant and soil health is the single most effective way to deliver the genetic potential of the crop. We challenge the status quo by utilizing agtech to monitor and drive productivity.

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