

Irrigated Wheat

Trial Objective

To test the effects of Bontera[®] Impact on the yield of wheat.

Trial Information

Trial Location	Kroondal, North West, South Africa		
Crop Variety	<i>Triticum aestivum</i>		
Growing Period	Jun 2020 - Oct 2020	Replicates	3
Total Trial Area	15 ha	Application Method	Pivot Application

Bontera[®] Impact was applied at a rate of **50 g/ha** via pivot irrigation at planting.

Results



Conclusions

- Bontera[®] Impact increased the yield by 14%
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Dryland Wheat

Trial Objective

To test the effects of Bontera[®] Impact on the nutrient uptake, yield and soil microbial activity on spring wheat.

Trial Information

Trial Location	Palouse, Washington (Crop Matters)		
Crop Variety	<i>Triticum aestivum</i> var WB9518		
Growing Period	May 2018 -	Replicates	1
Total Trial Area	120 acre	Application Method	Foliar Spray

Bontera[®] Impact was applied at a rate of **4 oz/ac** as a foliar spray tank mixed with the following: Axial Star (pinoxaden and fluroxypyr) at 16.4 oz/ac, Huskie (pyrasulfotole and bromoxynil) at 12 oz/ac, Orion (florasulam and MCPA) at 17 oz/ac, Tilt (propiconazole) at 4 oz/ac, In-Place (drift retardant) at 4 oz/ac, and Rainer (spreader-sticker) at 1 pt/100 gal.

Results

Total Yield



Flag Leaf Nutrient Content

Nutrient	<i>Control</i>	Bontera
Nitrogen (N)	4.48 %	4.63 %
Phosphorous (P)	0.30 %	0.27 %
Potassium (K)	1.64 %	1.56 %
Sulfur (S)	0.38 %	0.36 %
Calcium (Ca)	0.38 %	0.57 %
Magnesium (Mg)	0.17 %	0.21 %
Boron (B)	1 ppm	1 ppm
Zinc (Zn)	28 ppm	26 ppm
Manganese (Mn)	163 ppm	180 ppm
Copper (Cu)	7 ppm	8 ppm
Iron (Fe)	117 ppm	236 ppm

Conclusions

- Plant tissue nutrient levels were similar for most nutrients but Calcium, Manganese and Iron uptake was increased in the field treated with Bontera® Impact.
- Bontera® Impact increased the yield by 19%

Notes: This trial was not randomized or replicated thus no statistical calculations can be performed. The untreated (control) field has an organic matter content of 4.68% whereas the Bontera-treated field only has an organic content of 3.21%