

ProtoHumiX®: A Decade of Proven Economic Efficiency

Field Test Results & Analysis | 2014-2024



A Certified, Patented Foundation for Growth

- **Product Definition:** ProtoHumiX® (PrX®) is a liquid non-microbial plant biostimulant (PFC 6(B)) containing purified low-molecular-weight (LMW) humic and fulvic fractions.
- **Patented Technology:** The extraction process is protected by a patented technology (WO2015/163785/EP3135655).
- **EU Certified & Organic:** Fully compliant with EU Regulation 2019/1009 (CE PFC 6B & CMC1). Officially qualified and registered (SE/132/2025) for use in organic agriculture in the EU.



Winter Wheat | Ukraine | 2014-2015

Total Harvest: 5.9 t/ha

Yield Increase: 11.86%

Extra Harvest: 0.7 t/ha

Additional Profit: 140 €/ha

Dosage: 2.2 L/ha



Winter Barley | Ukraine | 2014-2015

Total Harvest: **4.12 t/ha**

Yield Increase: **12.62%**

Extra Harvest: **0.52 t/ha**

Additional Profit: **114.4 €/ha**

Dosage: **2.2 L/ha**



Soy | Ukraine | 2014-2015

Total Harvest:
2.37 t/ha

Yield Increase:
15.61%

Extra Harvest:
0.37 t/ha

Additional Profit:
109.15 €/ha

Dosage:
2.2 L/ha



Winter Wheat | Ukraine | 2015-2016

Total Harvest: **6.1 t/ha**

Yield Increase: **14.75%**

Extra Harvest: **0.9 t/ha**

Additional Profit: **180 €/ha**

Dosage: **2.2 L/ha**



Winter Barley | Ukraine | 2015-2016

Total Harvest: **4.29 t/ha**

Yield Increase: **16.1%**

Extra Harvest: **0.69 t/ha**

Additional Profit: **151.8 €/ha**

Dosage: **2.2 L/ha**



Soy | Ukraine | 2015-2016

Total Harvest: **2.41 t/ha**

Yield Increase: **17.0%**

Extra Harvest: **0.41 t/ha**

Additional Profit: **120.95 €/ha**

Dosage: **2.2 L/ha**



Winter Wheat | Ukraine | 2016-2017

 Total Harvest: **6.2 t/ha**

 Yield Increase: **16.13%**

 Extra Harvest: **1.0 t/ha**

 Additional Profit: **210 €/ha**
Lato Regular

 Dosage: **2.2 L/ha**



Wheat | Canada | 2016-2017

Total Harvest: 57 bushels/ha

Yield Increase: 14.0%

Extra Harvest: 7 bushels/ha

Additional Profit: 56 \$/ha

Dosage: 3 L/ha



Organic Wheat | Austria | 2016-2017

Total Harvest: **4.7 t/ha**

Yield Increase: **11.9%**

Extra Harvest: **0.5593 t/ha**

Additional Profit: **279.65 €/ha**

Dosage: **0.5 L/ha**



Organic Hemp | Austria | 2016-2017

Total Harvest: 1.1 t/ha

Yield Increase: 12.2%

Extra Harvest: 0.1342 t/ha

Additional Profit: 469.7 €/ha

Dosage: 1.1 L/ha



Organic Potato, 'Ditta' variety | Austria | 2016-2017

Total Harvest:

8.1 t/ha

Yield Increase:

20.0%

Extra Harvest:

1.62 t/ha

Additional Profit:

2664.9 €/ha

Dosage:

1.35 L/ha



Potato, "Kuras" variety |
Austria | 2016-2017

Total Harvest: **36.0 t/ha**

Yield Increase: **44.0%**

Extra Harvest: **11 t/ha**

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Additional Profit: **18,095 €/ha**

Dosage: **2.0 L/ha**



Sugar Cane | Barbados | 2017-2019

Yield Increase:

- Total Weight: **+28.89%**
- Sugar: **+28.57%**
- Cane Juice: **+5.93%**

Extra Harvest:

- Total Weight: **8 t/ha**
- Sugar: **2 t/ha**

Additional Profit: **430 €/ha**

Dosage: **4.5 L/ha**



Beyond the Field: Livestock Efficiency | Broilers | Austria | 2021

- **Reduced Feed Conversion:**
Feed consumption decreased by **11.26%**.
- **Reduced Mortality:**
Production number improved by **3.5%**.
- **Economic Impact:**
Additional profit of **+672 €** per 10,000 head.



Advanced Applications: Cannabis Cultivation | Mediterranean | 2024

Fertilizer Efficiency

Reduced the application rate of NPK+ by 50%.

Superior Yield

Harvest results exceeded average genetically determined reference values.

Climate Resilience

Proven high efficiency in difficult conditions with extremely high temperatures.



A Decade of Global Results. A Future of Sustainable Profit.



10+ Years of documented field trials.



Diverse Geographies: From the black soil of Ukraine to the Canadian prairies, Austrian Alps, and tropical **Barbados**.



Broad Crop Spectrum: Cereals, legumes, tubers, industrial crops, and sugar cane.



Proven in All Systems: Conventional, certified organic, and advanced cultivation.



Cross-Sector Impact: Demonstrable economic benefits in both agriculture and animal husbandry.