CEREAL CROPS · TRIAL RESULTS · WINTER WHEAT

Winter wheat: 9% more yield and a higher quality class

On an already high-yielding winter wheat crop, Hortimed HUMUS SAPROPEL Biostimulant added 0.96 t/ha in a 2024 field trial in Latvia - and lifted the grain one food-wheat quality group.

+9%
Grain yield vs the untreated control

+0.96 t/ha
11.64 t/ha with HUMUS SAPROPEL

4th to 3rd
Food-wheat quality group

What it means for growers

- **Real tonnage on a strong crop.** Nearly one extra tonne per hectare where yields were already above 10 t/ha.
- **A better price grade.** Higher gluten and protein moved the grain up a full quality group.
- **A visibly stronger crop.** Heavier grain, higher bulk density, taller plants and larger ears.

Grain yield

Treatment	Yield, t/ha	vs control
Control	10.68	-
HUMUS SAPROPEL	11.64	**+9.0%**

Grain quality (treated plots)

- Gluten 23% and protein 12.4% - moved the grain from the 4th to the 3rd food-wheat quality group
- 1000-grain weight 42.98 g
- Bulk density 77.8 kg/hl
- Falling number 313 s - meets first-class food-grain requirements
- Taller plants and larger ears than the control

Trial at a glance

Crop	Winter wheat
Cultivar	'Boss'
Product tested	Hortimed HUMUS SAPROPEL Biostimulant
Location	Eastern Latvia
Season	2024
Trial type	Replicated field trial
Research partner	SIA Latgale Agricultural Science Centre (LLZC), Latvia
Statistics	Replicated plots with statistical analysis (LSD/ANOVA)

Product used

Hortimed HUMUS SAPROPEL Biostimulant

A liquid biostimulant made from sapropel - an organically rich freshwater lake sediment from Latvia. CE-marked under EU Fertilising Products Regulation (EU) 2019/1009, OMRI Listed and Ecocert-approved.

About this trial

Source: SIA Latgale Agricultural Science Centre (LLZC), Latvia - Hortimed winter wheat 'Boss' trial report, 2024.

Results vary with season, soil, crop and management. Figures are trial averages and are not a guarantee of results on an individual farm.

Full trial reports - with methodology, weather data and complete quality tables - are available on request.

Request the full trial report