CEREAL CROPS · TRIAL RESULTS · SPRING OATS

Spring oats: up to 33.6% more yield over two seasons

Two seasons of field trials in eastern Latvia tested Hortimed HUMUS SAPROPEL Biostimulant on spring oats 'Galant'. Every treated variant out-yielded the untreated control - in 2024 and in 2025, at the full and at a reduced fertiliser rate.

+33.6%
Best yield gain - 7.12 t/ha in 2025

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Treated variants that out-yielded the control

75% NPK
Reduced fertiliser rate at which the product still beat the control

What it means for growers

- **Results that repeat.** HUMUS SAPROPEL raised oat yield in two separate seasons, by 12.1% to 33.6% over the control.
- **Yield held at a lower fertiliser rate.** At 75% of the standard NPK rate, HUMUS SAPROPEL still out-yielded the full-rate control.
- **Heavier, higher-protein grain.** Treated oats produced heavier grain with more protein - useful for both feed and food markets.

Grain yield

Season and treatment	Yield, t/ha	vs control
2024 - HUMUS SAPROPEL, NPK 100%	5.73	**+12.1%**
2024 - HUMUS SAPROPEL, NPK 75%	5.84	**+14.3%**
2025 - HUMUS SAPROPEL, NPK 100%	7.12	**+33.6%**
2025 - HUMUS SAPROPEL, NPK 75%	7.03	**+31.9%**

Percentages are relative to the untreated control at full NPK rate. Yields recalculated to standard moisture content.

Grain quality

- Treated variants recorded a heavier 1000-grain weight than the control.
- Treated variants recorded higher grain protein content than the control.

Trial at a glance

Crop	Spring oats
Cultivar	'Galant'
Product tested	Hortimed HUMUS SAPROPEL Biostimulant
Location	Eastern Latvia
Seasons	2024 and 2025
Trial type	Replicated field trial
Research partner	SIA Latgale Agricultural Science Centre (LLZC), Latvia, in cooperation with Hortimed SIA

Fertiliser programme	Mineral NPK at 100% and at 75% of the standard rate
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 - field trial reports 2024 and 2025, in cooperation with Hortimed SIA.

The trials were shown at the Eastern Latvia Regional Field Day, which draws 2,000-2,500 farmers and visitors each year.

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