Carrot Field Trial – Canterbury

This field trial evaluated the impact of biological and microbial-based products from AgroBioTechNZ on carrot yield performance. Treatments included AgroAzzo, AgroAmylo, AgroPhos, and AgroComplex, each compared to an untreated Control. All products were applied twice during the early growth stages of the crop. The trial was carried out at Crozier Farm, Leeston, Canterbury and had a randomised block layout with 6 replicates per treatment.

Here's a summary of the Carrot trial results:

Observations & Commentary

All AgroBioTechNZ treatments outperformed the untreated Control, with yield gains ranging from 11% to nearly 20%.

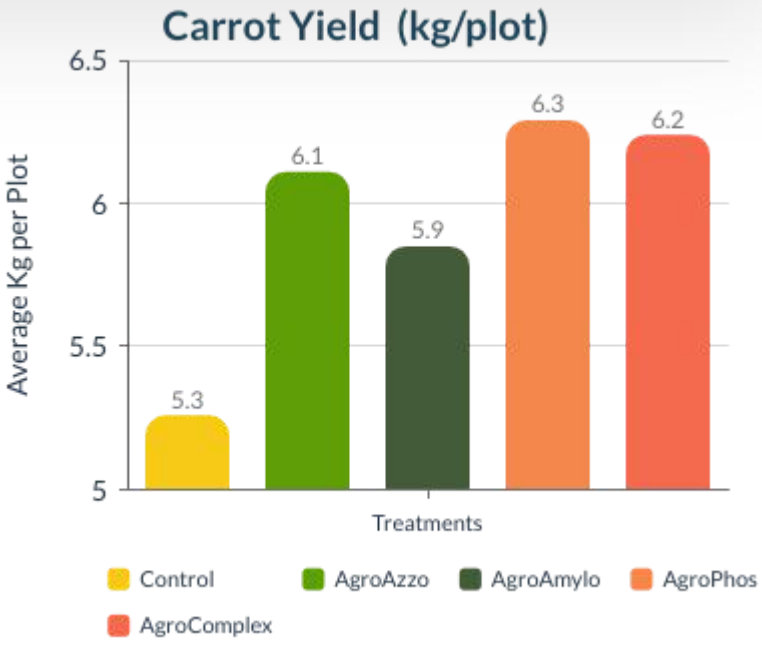
AgroPhos was the top performer, increasing yield by +19.8% over Control and delivering over an estimated 100 t/ha.

AgroComplex and AgroAzzo also demonstrated strong performance, likely due to improved nutrient availability and rhizosphere activity.

Although ANOVA testing showed that yield differences were not statistically significant at $p < 0.05$ ($p = 0.124$), the consistent numerical trends support further investigation.

Conclusion

AgroBioTechNZ's biostimulant treatments consistently improved carrot yields under field conditions. While further replicated trials are needed for statistical confirmation, the results highlight the potential of microbial and organic carbon inputs to enhance root crop performance.



TREATMENTS	AVERAGE PLOT WEIGHT (KG)	% CHANGE
Control	5.26	
AgroAzzo	6.11	16.4
AgroAmylo	5.85	11.2
AgroPhos	6.29	19.8
AgroComplex	6.24	18.6