

# Cowra Seed Treatment Trial



# Introduction

## AIM

To look at Advance Energize Seed Treatment on a field wheat trial.

To investigate if there are any treatment effects on germination, plant biomass, root development, grain yield and fungal resistance.

## METHOD

Two paddocks were sown with treated seed @ 10 litres /1 tonne of wheat in Smith's paddock and Poora's Paddock.

## RESULTS



On the 13.7.23 wheat plants from a single row were dug up from 6 random sites x 25cm in length, this was carried out in the treated and untreated area. The plants were washed clean, weighted and measured and then placed in a dehydrator. The bulk dry weights were taken the following week. Significant increases in root development were observed in the treated plants. The yield will be recorded at harvest time 2023 and this report will be updated accordingly.

	# of Plants	Total wet Biomass	Plant Weight Total Wet (g)	Root Weight Total Wet (g)	Total Dry Biomass (g)	Dry Plant Leaf Weight (g)	Dry Root Weight (g)
Poora Treated	59	181.49	142.59	26.65	21.44	17.61	3.52
Poora Untreated	73	184.39	149.87	21.34	22.57	19.22	3.32
Smiths Treated	60	228.29	172.06	31.72	23.69	19.48	4.18
Smiths Untreated	60	206.65	155.94	22.50	22.08	19.23	2.82

	Average Total Dry Biomass (g)	Average Dry Plant Leaf Weight (g)	Average Dry Root Weight (g)
Poora Treated	0.3634	0.2985	0.0597
Poora Untreated	0.3092	0.2633	0.0455
Smiths Treated	0.3948	0.3247	0.0697
Smiths Untreated	0.3680	0.3205	0.0470

Smiths Treated on the left Untreated on the right.

