

2024

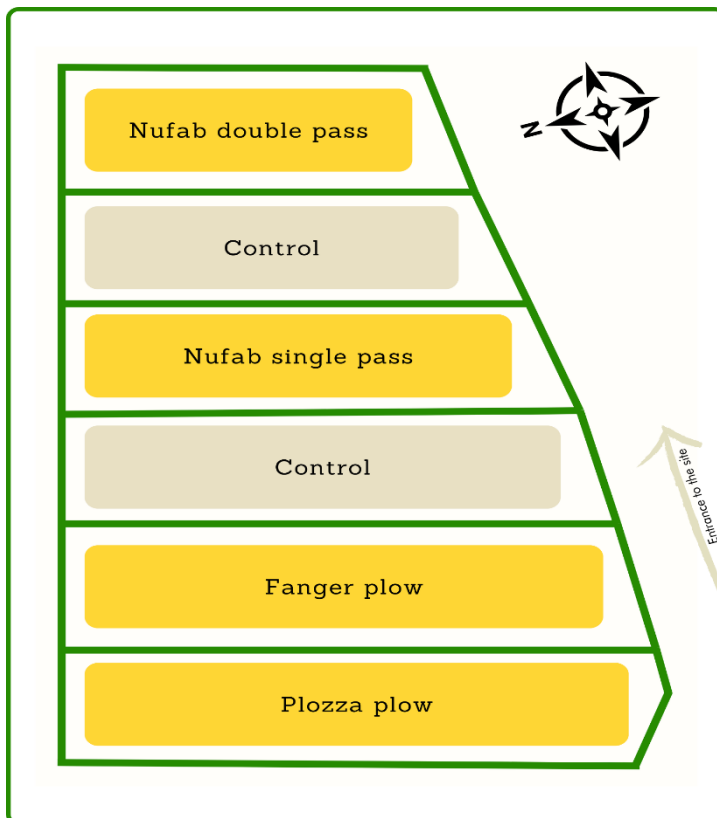
GRAVEL SOIL AMELIORATION SITE

Information sheet on project site and recent results

Site details:

- Shallow sand over gravel
- Amelioration of site was completed 1st week of June, sown to oats in the week following

Month:	Jan	Feb	Mar	Apr	May	Jun	Jul
Rainfall	2.4	1.6	2.6	12.4	35.6	96.4	124
Avg Temp (C)	25	27.5	23.6	20.9	18.1	14.1	13



Background article



Initial results article



Adoption survey



Results so far:

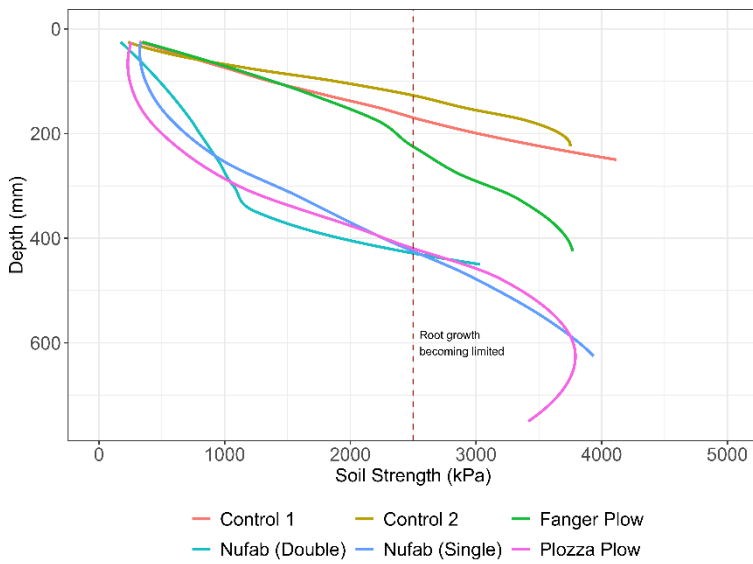
Soil Testing

Depth (cm)	Ammonium Nitrogen (mg/kg)	Nitrate Nitrogen (mg/kg)	Phosphorus Colwell (mg/kg)	Potassium Colwell (mg/kg)	Sulfur (mg/kg)	Organic Carbon (%)	Clay (%)	Silt (%)	Sand (%)	Water Repellency (MED)
0-10	5	13	4	24	5.1	0.83	4	2	94	2
10-20	<1	5	6	<15	1.8	0.38	6	2	93	0
20-30	<1	5	9	16	2.2	0.46	9	3	89	0
30-40	<1	6	7	24	3.9	0.52	34	2	64	0
40-50	<1	6	3	31	5.5	0.46	36	3	61	0

Table of pre-treatment soil tests for the gravel soil amelioration site

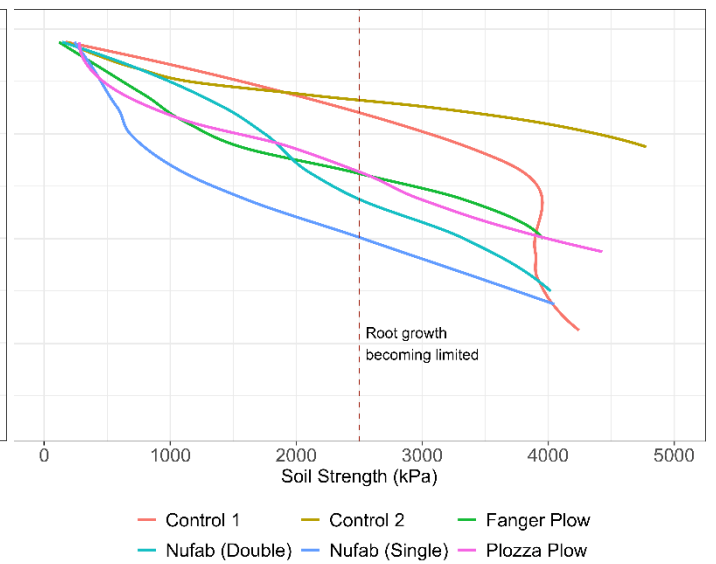
Test	Soil Depth (cm)	Plozza Plow	Fanger Plow	Control 1	Nufab (Single)	Nufab (Double)
pH (CaCl2)	0-10	5.3	5.5	5.2	5.6	4.8
	10-30	4.7	4.6	4.7	4.6	4.9
	30-50	4.8	4.7	4.6	4.6	4.7
Gravel %	0-10	18	23	7.5	18	28
	10-30	33	28	38	58	38
	30-50	58	12.5	28	38	58
	Average soil layer	36	21	25	38	41
OC %	0-10	0.73	0.69	0.94	0.88	0.52
	10-30	0.41	0.42	0.4	0.33	0.48
	30-50	0.27	0.46	0.36	0.48	0.24

Table of post-treatment soil tests for the gravel soil amelioration



Control 1 Control 2 Fanger Plow
Nufab (Double) Nufab (Single) Plozza Plow

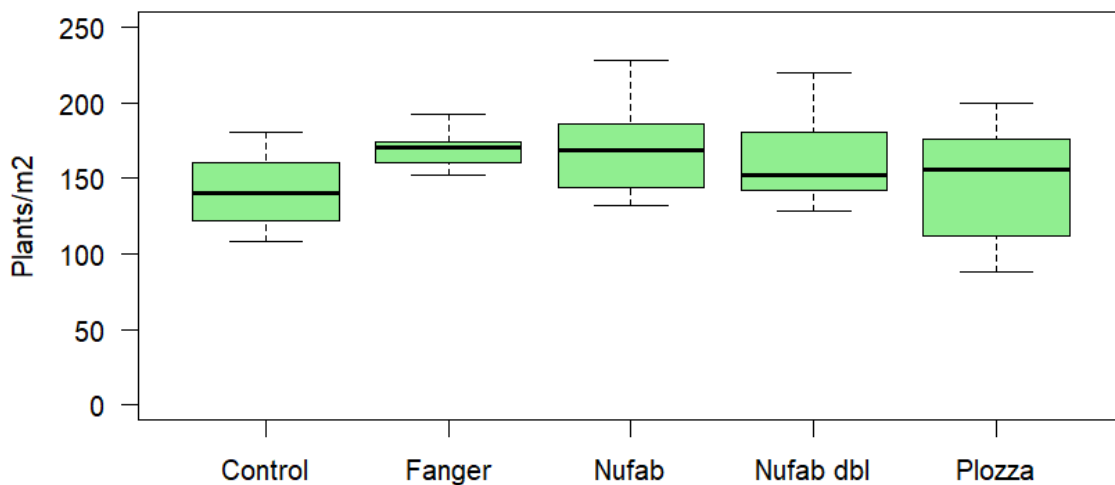
Graph A - Immediately post-treatment soil penetrometer data
(note: data for Fanger treatment data was pre-treatment)



Control 1 Control 2 Fanger Plow
Nufab (Double) Nufab (Single) Plozza Plow

Graph B - 6 weeks post-treatment soil penetrometer data

Plant Establishment



Plant establishment results for the Gravel soil amelioration site. Error bars denote the standard deviation of the mean.