

Crop Comparison Trial 2024 MN

Jesse Bealsburg

2024-11-15

Canopy closure (canopeo)

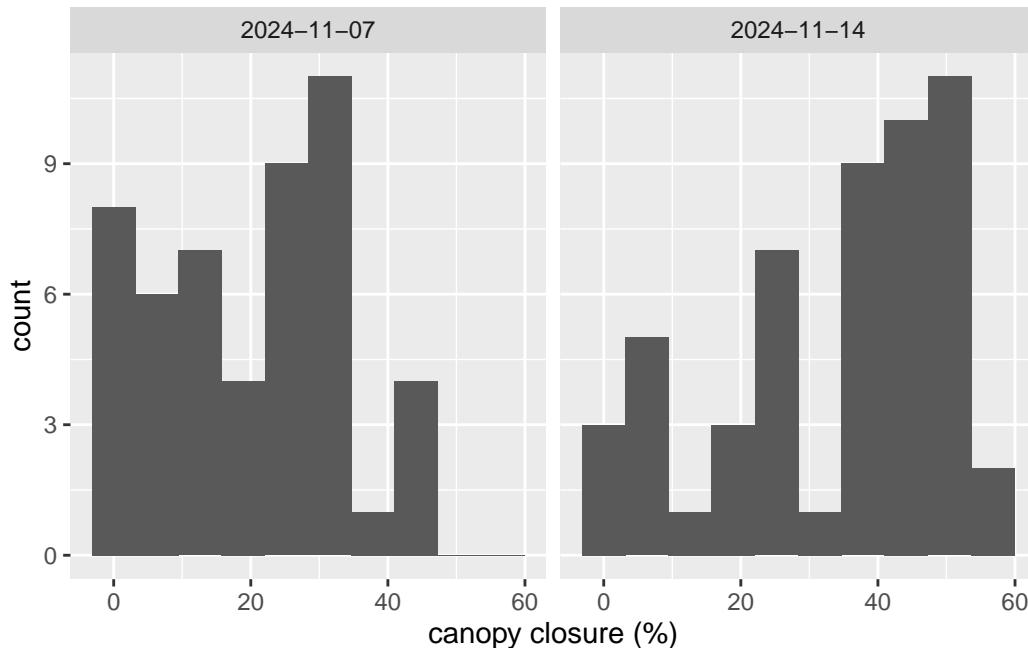
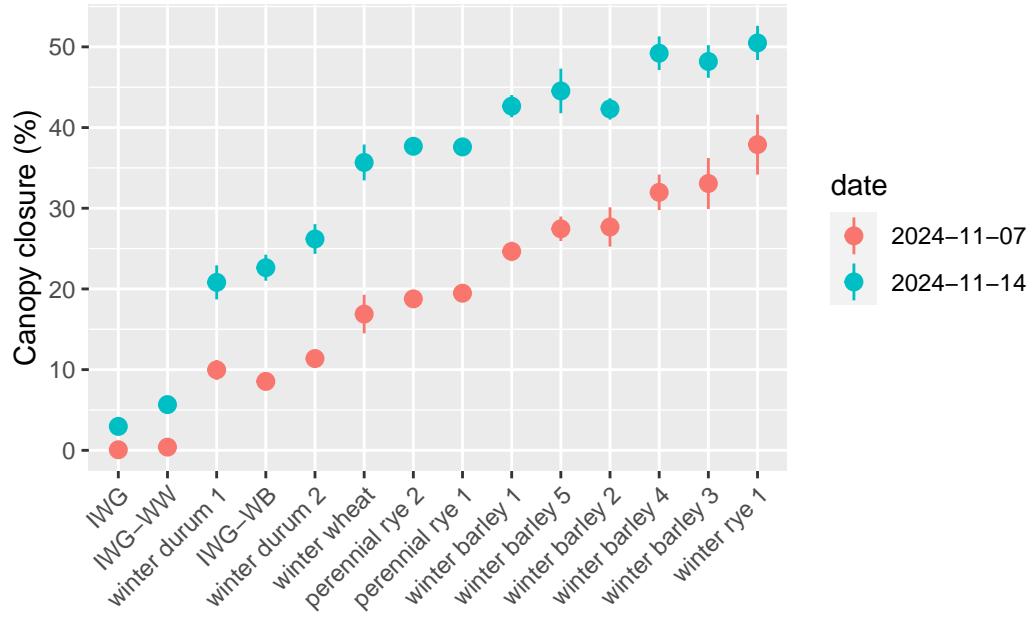


Table 1: Canopy closure (%) by date

date	mean	max	min	n
2024-11-07	20	44	0	50
2024-11-14	33	57	2	52



- Winter rye remains the GOAT, but some winter barley lines are catching up



Figure 1: Trial on 7Nov. Plot boundaries visible due to differences in soil cover.



Figure 2: Wheatgrass plot with poor soil coverage on 7Nov.



Figure 3: Intercrop plot with ok soil coverage on 7Nov.



Figure 4: Small grain plot with good soil coverage on 7Nov

Table 2: Canopeo settings used

Date	Canopeo adjustment used	Note
7Nov	0.8	Captured leaf canopy well. Did not misidentify surface debris as leaf tissue.
14Nov	1.1	Better at capturing totality of leaf area, especially thin wheatgrass blades which it was underestimating at 0.8. Misidentified small bits of surface debris as leaf area.

Population

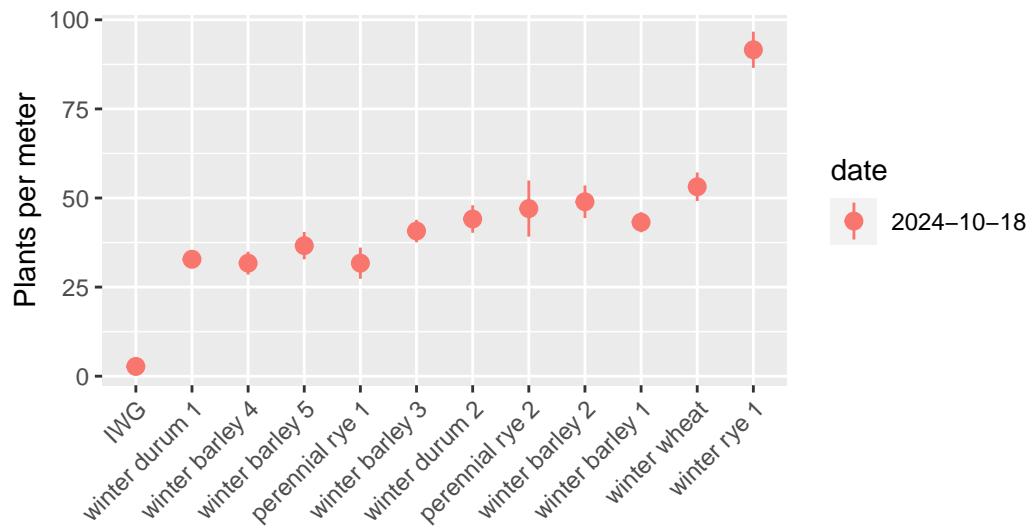


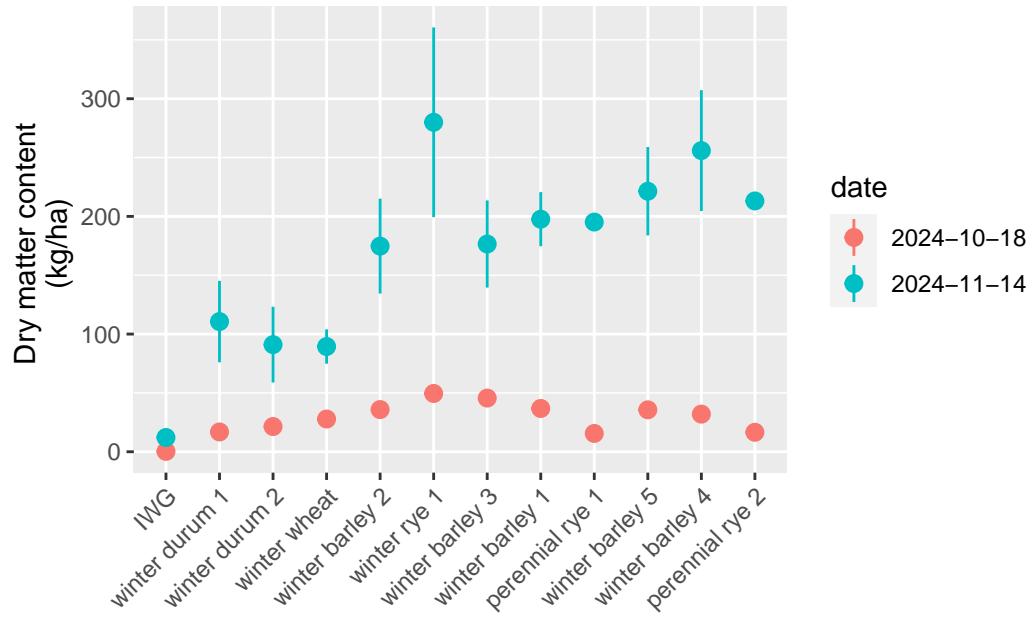
Table 3: Plants per meter on 18Oct

mean	max	min	n
43	125	0	123

Table 4: Plants per meter on 18Oct

treatment	mean	max	min	n
IWG	3	7	0	12
winter durum 1	33	43	23	9
winter barley 4	32	46	10	12
winter barley 5	37	66	23	12
perennial rye 1	32	36	23	3
winter barley 3	41	59	20	12
winter durum 2	44	72	33	9
perennial rye 2	47	62	36	3
winter barley 2	49	95	36	12
winter barley 1	43	56	23	12
winter wheat	53	85	36	15
winter rye 1	92	125	69	12

Dry matter yield



- Dry matter yield on 14Nov was unfortunately very muddy and may need to be resampled.