



West Central Research, Extension, & Education Center, North Platte

2023 Fall Cover Crop Variety Trial (Rainfed)

UNIVERSITY of NEBRASKA
LINCOLN

Type	Species	Variety	Stand count (2ft ²)	Std err	GC (%)	Std err	Height (cm)	Std err	Biomass (kg ha ⁻¹)	Std err	N (%)	Std err	Total C (%)	Std err
Grasses														
1	Oat	Jerry	68	11	-	-	-	-	-	-	-	-	-	-
2	Oat	Hayden	61	13	-	-	-	-	-	-	-	-	-	-
3	Barley	P919	78	15	28	7.0	60	1.0	1246	216	1.1	0.0	44	0.2
4	Barley	NB15420	74	12	38	1.6	58	2.2	998	217	1.1	0.0	45	0.4
5	Triticale	NT14433	76	16	40	3.9	63	3.6	1566	349	1.2	0.1	44	0.7
6	Triticale	Montech	68	12	34	1.6	53	9.1	1803	321	1.3	0.1	45	0.3
7	Wheat	Gore	69	22	35	5.0	47	1.2	1737	319	1.3	0.1	44	0.3
8	Wheat	Goodstreak	94	19	28	2.5	46	1.8	1389	267	1.1	0.1	43	0.1
9	Rye	Elbon	70	15	35	3.8	104	1.8	4015	587	1.0	0.1	45	0.4
10	Rye	Yankee	81	20	39	1.7	89	2.1	2786	488	1.2	0.2	45	0.5
11	Rye	Hazlet	52	19	40	2.2	84	2.0	2102	326	1.1	0.2	45	0.4
Legumes														
12	Pea	Pea4010	19	2	-	-	-	-	-	-	-	-	-	-
13	Pea	Survivor	27	7	40	7.0	44	2.8	285	91	4.0	0.3	43	0.6
14	Pea	WyoWinter	24	5	55	5.0	47	4.1	507	61	3.9	0.4	45	0.7
15	Hairy Vetch	Aumerit	27	8	42	9.1	37	5.9	169	69	2.8	0.4	42	0.9
16	Hairy Vetch	NE	19	3	56	1.9	46	3.4	510	148	2.8	0.4	42	0.4
17	Hairy Vetch	Winter King	24	5	55	8.7	40	3.7	467	166	4.3	0.2	44	0.3
Brassicas														
18	Rapeseed	Bonar	12	4	-	-	-	-	-	-	-	-	-	-
19	Rapeseed	Barsica	15	7	-	-	-	-	-	-	-	-	-	-
20	Collard	Impact	18	3	-	-	-	-	-	-	-	-	-	-
21	Radish	Nitro	9	3	-	-	-	-	-	-	-	-	-	-
22	Camelina	Camelina	-	-	-	-	-	-	-	-	-	-	-	-
Mixes														

23	Oat+Collard	Jerry+Impact	55	14	-	-	-	-	-	-	-	-	-	-
24	Barley+Radish	P919+Nitro	59	18	31	4.1	54	5.2	1945	214	1.3	0.1	44	0.6
25	Rye+Hairy vetch	Elbon+AU merit	52	9	31	8.1	107	1.3	2454	89	1.6	0.5	49	4.4
26	Triticale+Hairy vetch	Montech+AU merit	54	10	38	6.3	71	4.2	1920	676	1.3	0.1	45	0.2
27	Wheat+Hairy vetch	Gore+Winter King	58	12	37	4.1	45	2.3	1525	260	1.8	0.2	44	0.4
28	Rye+Rapeseed+Hairy vetch	Elbon+Barsica+MT	57	13	35	7.4	111	3.0	2076	313	1.4	0.2	45	0.4
29	Triticale+Rapeseed+Hairy vetch	Montech+Barsica+MT	50	7	36	3.2	64	5.6	1628	239	1.2	0.1	45	0.5
30	Wheat+Rapeseed+Hairy vetch	Gore+Barsica+MT	60	11	46	2.1	44	1.1	1718	295	1.3	0.1	43	0.5

†Std err: Standard error; GC: Ground Cover; N:Nitrogen; C: Carbon. The standard error value (n=4) is for each corresponding parameter on the left column.

Management details

Cooperator/site:	WCREC/North Platte County
Soil type:	Cozad silt loam
Planting date:	Sep 22, 2023
Seeding depth:	1.25"
Soil moisture at planting:	Fairly dry
Implement/tools:	DCS research drill
Rows/plot:	6
Row spacing:	10"
Plot length:	30'
Alley width:	3'
Tillage:	No-till
Previous crop:	Wheat
Pre-plant herbicide:	None
Fertilizer at planting:	None
Irrigation:	Non-irrigated
Total precipitation during growing period:	10.7"
Termination date:	May 16, 2024