



Panhandle Research, Extension, & Education Center, Scottsbluff

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	79	9	-	-	-	-	-	-	-	-	-	-
2	Oat	Hayden	62	8	-	-	-	-	-	-	-	-	-	-
3	Barley	P919	35	6	27	14.2	23	5.0	1100	915	3.2	0.4	42	0.4
4	Barley	NB15420	73	3	65	2.3	38	2.2	4299	586	2.5	0.1	43	0.3
5	Triticale	NT14433	62	6	56	5.4	42	1.5	2531	202	2.3	0.1	43	0.1
6	Triticale	Montech	53	7	69	2.8	53	2.6	4041	571	2.3	0.1	42	0.4
7	Wheat	Gore	37	3	36	7.8	38	2.7	2035	809	2.6	0.2	42	0.3
8	Wheat	Goodstreak	76	16	54	4.3	41	2.1	2837	475	2.4	0.1	42	0.3
9	Rye	Elbon	52	11	73	16.2	94	9.2	9608	2765	2.1	0.3	44	0.2
10	Rye	Yankee	41	9	71	12.2	67	10.0	5358	1739	2.0	0.4	44	0.6
11	Rye	Hazlet	48	7	59	15.3	54	5.3	4894	1721	2.5	0.1	43	0.7
Legumes														
12	Pea	Pea4010	22	5	-	-	-	-	-	-	-	-	-	-
13	Pea	Survivor	26	3	37	7.6	19	2.0	1023	102	4.7	0.1	42	0.6
14	Pea	WyoWinter	27	6	34	6.7	21	0.7	986	323	4.9	0.2	44	0.3
15	Hairy Vetch	Aumerit	21	2	13	4.8	10	3.9	523	367	4.8	0.3	42	1.0
16	Hairy Vetch	NE	28	6	26	15.1	13	3.7	584	396	4.6	0.2	41	0.3
17	Hairy Vetch	Winter King	34	6	8	5.9	12	3.7	335	241	5.3	0.5	40	1.2
Brassicacae														
18	Rapeseed	Bonar	35	8	-	-	-	-	-	-	-	-	-	-
19	Rapeseed	Barsica	25	6	-	-	-	-	-	-	-	-	-	-
20	Collard	Impact	27	4	-	-	-	-	-	-	-	-	-	-
21	Radish	Nitro	20	5	-	-	-	-	-	-	-	-	-	-
22	Camelina	Camelina	-	-	-	-	-	-	-	-	-	-	-	-
Mixes														

23	Oat+Collard	Jerry+Impact	36	8	-	-	-	-	-	-	-	-	-	-
24	Barley+Radish	P919+Nitro	35	3	35	9.1	30	5.6	1186	397	3.6	0.4	42	0.3
25	Rye+Hairy vetch	Elbon+AU merit	27	4	64	15.0	77	11.6	5912	2196	2.4	0.2	43	0.7
26	Triticale+Hairy vetch	Montech+AU merit	38	7	53	16.7	45	11.1	2594	1435	2.8	0.4	42	0.8
27	Wheat+Hairy vetch	Gore+Winter King	34	11	50	5.8	30	5.9	1013	1011	2.9	0.02	42	0.5
28	Rye+Rapeseed+Hairy vetch	Elbon+Barsica+MT	30	6	62	15.4	85	11.3	5916	1572	2.2	0.2	44	0.3
29	Triticale+Rapeseed+Hairy vetch	Montech+Barsica+MT	32	2	63	1.0	52	0.7	2458	836	2.6	0.04	43	0.4
30	Wheat+Rapeseed+Hairy vetch	Gore+Barsica+MT	40	11	32	10.6	31	6.3	1622	720	3.0	0.3	42	0.4

†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:	PREEC/Scottsbluff County
Soil type:	Tripp very fine sandy loam
Planting date:	Sep 26, 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 (well disked and fairly levelled field)
Previous crop:	Field peas/soybean
Pre-plant herbicide:	None
Fertilizer at planting:	None
Irrigation:	Non-irrigated
Total precipitation during growing period:	6.62"
Termination date:	May 14, 2024