



# Panhandle Research, Extension, & Education Center, Scottsbluff

## 2022 Fall Cover Crop Variety Trial (Rainfed)

UNIVERSITY of NEBRASKA  
LINCOLN

Type	Species	Variety	Stand count (2ft <sup>2</sup> )	Std err	GC (%)	Std err	Height (inches)	Std err	Biomass (kg ha <sup>-1</sup> )	Std err	N (%)	Std err	Total C (%)	Std err	
<b>Grasses</b>															
1	Oat	Jerry	99	3	-	-	-	-	-	-	-	-	-	-	
2	Oat	Hayden	82	7	-	-	-	-	-	-	-	-	-	-	
3	Barley	P919	72	7	7.2	1.4	5.4	0.9	288	127	3.4	0.5	42	0.3	
4	Barley	NB15420	63	9	3.5	1.1	4.5	0.4	84	18	4.2	0.2	40	0.6	
5	Triticale	NT14433	49	5	31.4	3.0	11.8	0.5	1366	400	3.2	0.2	42	0.1	
6	Triticale	Montech	48	4	31.3	6.5	11.2	1.5	885	177	3.5	0.7	42	0.2	
7	Wheat	Gore	84	7	15.7	1.6	6.9	0.3	464	55	3.8	0.2	43	0.4	
8	Wheat	Goodstreak	61	4	15.6	3.3	6.9	0.6	434	156	3.6	0.2	42	0.3	
9	Rye	Elbon	69	10	53.4	14.0	19.3	1.9	1777	466	2.6	0.5	42	0.2	
10	Rye	Yankee	47	9	59.3	17.3	15.9	2.4	2487	895	3.3	0.5	42	0.3	
11	Rye	Hazlet	58	7	54.9	12.4	15.4	1.8	2478	885	3.1	0.4	43	0.2	
<b>Legumes</b>															
12	Pea	Pea4010	16	2	-	-	-	-	-	-	-	-	-	-	
13	Pea	Survivor	32	4	-	-	-	-	-	-	-	-	-	-	
14	Pea	WyoWinter	13	2	-	-	-	-	-	-	-	-	-	-	
15	Hairy Vetch	Aumerit	25	3	5.5	2.1	4.8	0.9	105	72	4.5	0.3	40	0.9	
16	Hairy Vetch	NE	25	3	10.4	6.5	4.7	1.1	337	225	4.9	0.1	41	0.8	
17	Hairy Vetch	Winter King	22	4	4.2	1.6	4.0	-	131	87	5.3	1.3	43	1.0	
<b>Brassicas</b>															
18	Rapeseed	Bonar	30	7	-	-	-	-	-	-	-	-	-	-	
19	Rapeseed	Barsica	16	6	-	-	-	-	-	-	-	-	-	-	
20	Collard	Impact	56	17	-	-	-	-	-	-	-	-	-	-	
21	Radish	Nitro	13	4	-	-	-	-	-	-	-	-	-	-	
22	Camelina	Camelina	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Mixes</b>															

23	Oat+Collard	Jerry+Impact	65	7	-	-	-	-	-	-	-	-	-	-
24	Barley+Radish	P919+Nitro	38	7	5.8	1.3	4.9	0.6	93	38	4.5	0.2	41	1.2
25	Rye+Hairy vetch	Elbon+AU merit	52	10	50.9	10.3	18.1	1.4	1993	586	2.9	0.5	43	0.2
26	Triticale+Hairy vetch	Montech+AU merit	51	11	25.4	4.0	10.7	0.7	901	111	3.7	0.4	42	0.5
27	Wheat+Hairy vetch	Gore+Winter King	69	5	14.9	3.6	7.1	0.4	370	74	3.8	0.2	43	0.3
28	Rye+Rapeseed+Hairy vetch	Elbon+Barsica+MT	52	7	28.9	11.2	14.4	2.4	1295	647	3.2	0.3	43	0.5
29	Triticale+Rapeseed+Hairy vetch	Montech+Barsica+MT	52	13	22.1	2.8	9.7	0.6	512	73	4.1	0.4	42	0.6
30	Wheat+Rapeseed+Hairy vetch	Gore+Barsica+MT	60	12	13.4	2.1	7.8	0.4	424	114	3.9	0.1	43	0.3

†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 16, 2022
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:	Sunflower
Pre-plant herbicide:	None
Fertilizer at planting:	None
Irrigation:	Non-irrigated
Total precipitation during growing period:	2.4"
Termination date:	May 09, 2023