



# Panhandle Research, Extension, & Education Center, Scottsbluff

## 2023 Spring 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	C:N ratio	Std err	CP (%)	Std err	RFQ (%)	Std err
<b>Grasses</b>																
1	Spring forage barley	Lavina	50	9	27.3	4.4	11.2	0.7	886	216	13	0.4	19	0.4	166	3
2	Spring barley	Robust	48	10	20.7	2.4	14.3	0.4	839	137	14	0.6	17	0.6	141	2
3	Winter barley	P919	34	1	28.6	2.5	10.9	0.7	1099	82	14	0.3	18	0.5	167	3
4	Spring oats	Goliath	42	5	9.8	2.2	9.1	0.6	257	53	15	0.6	17	0.9	184	4
5	Spring oats	Hayden	36	4	15.2	1.4	9.0	0.5	438	43	15	0.5	17	0.4	179	6
6	Spring oats	Jerry	59	8	14.2	1.6	10.7	0.3	675	69	16	0.8	16	0.5	185	2
7	Spring triticale	Surge	44	9	16.7	2.4	8.5	0.4	320	44	13	0.9	17	1.0	145	5
<b>Legumes</b>																
8	Spring pea	Pea4010	15	3	1.7	0.1	5.7	0.5	141	45	16	1.1	-	-	-	-
9	Winter pea	Survivor	30	5	3.8	0.4	3.5	0.2	292	46	16	1.4	-	-	-	-
10	Winter pea	WyoWinter	22	3	3.5	0.6	4.5	0.1	248	29	14	0.7	-	-	-	-
11	Faba bean	Petite	7	1	0.6	0.1	2.9	0.5	38	14	15	1.6	-	-	-	-
<b>Brassicas</b>																
12	Rapeseed	Bonar	46	12	1.9	0.6	2.4	0.4	141	55	13	0.4	-	-	-	-
13	Rapeseed	Barsica	30	5	4.7	1.3	3.2	0.5	210	99	15	1.2	-	-	-	-
14	Collard	Impact	39	4	3.6	0.5	2.1	0.1	206	18	14	0.7	-	-	-	-
<b>Two-way mixture</b>																
15	Oat+Pea	Goliath+4010	25	5	6.9	0.5	-	-	350	22	19	0.4	-	-	-	-
16	Oat+Pea	Hayden+4010	38	9	11.9	1.7	-	-	664	84	20	1.4	-	-	-	-
17	Triticale+Pea	Surge+4010	28	2	10.9	1.4	-	-	351	68	17	0.4	-	-	-	-
<b>Three-way mixture</b>																
18	Barley+Pea+Rapeseed	Lavina+4010+Barsica	43	7	20.4	1.5	-	-	1156	93	16	0.6	-	-	-	-
19	Oat+Pea+Rapeseed	Goliath+4010+Barsica	34	5	6.6	1.1	-	-	244	74	16	0.7	-	-	-	-
20	Triticale+Pea+Rapeseed	Surge+4010+Barsica	40	4	8.4	1.4	-	-	510	44	16	0.5	-	-	-	-

†Std err: Standard error; GC: Ground Cover; C:N: Carbon:Nitrogen; CP: Crude Protein; RFQ: Relative Forage Quality. 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:	March 07, 2023
Seeding depth:	0.5-1"
Soil moisture at planting:	Slightly muddy, and slightly frozen
Implement/tools:	DCS research drill
Rows/plot:	6
Row spacing:	10"
Plot length:	30'
Alley width:	3'
Tillage:	No-till
Previous crop:	Corn, grazed
Pre-plant herbicide:	None
Fertilizer at planting:	None
Irrigation:	Non-irrigated
Total precipitation during growing period:	6.4"
Termination date:	May 22, 2023