



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

2022 Fall Cover Crop Variety Trial (Rainfed)

UNIVERSITY of NEBRASKA
LINCOLN

Type	Species	Variety	Stand count (2ft ²)	Std err	GC (%)	Std err	Height (inches)	Std err	Biomass (kg ha ⁻¹)	Std err	N (%)	Std err	Total C (%)	Std err
Grasses														
1	Oat	Jerry	69	10	-	-	-	-	-	-	-	-	-	-
2	Oat	Hayden	67	4	-	-	-	-	-	-	-	-	-	-
3	Barley	P919	63	4	11.6	1.8	6.1	0.7	345	40	4.7	0.2	43	1.0
4	Barley	NB15420	86	20	13.4	8.1	5.0	0.4	55	22	4.0	0.2	39	1.3
5	Triticale	NT14433	50	4	31.8	1.1	12.2	1.3	1176	58	3.7	0.3	43	0.8
6	Triticale	Montech	55	4	37.1	1.9	10.4	0.5	920	101	3.8	0.2	44	0.6
7	Wheat	Gore	97	5	27.7	3.0	8.7	0.8	1131	205	3.6	0.2	43	0.4
8	Wheat	Goodstreak	73	2	27.8	2.9	8.8	0.4	1077	131	3.6	0.2	44	0.2
9	Rye	Elbon	56	9	51.5	3.2	17.6	1.4	2295	206	3.0	0.2	45	0.2
10	Rye	Yankee	60	6	50.2	4.4	11.8	1.1	1824	156	2.8	0.3	44	0.5
11	Rye	Hazlet	59	1	55.1	3.7	14.7	0.6	1966	238	2.8	0.3	45	0.5
Legumes														
12	Pea	Pea4010	19	2	-	-	-	-	-	-	-	-	-	-
13	Pea	Survivor	27	4	18.4	2.1	4.8	0.3	237	79	3.9	0.4	39	2.3
14	Pea	WyoWinter	14	1	10.9	0.8	4.0	0.5	120	46	4.2	0.4	42	1.2
15	Hairy Vetch	Aumerit	29	2	31.2	5.8	4.2	0.4	314	117	4.0	0.4	38	0.6
16	Hairy Vetch	NE	25	3	41.7	4.0	5.1	0.9	730	91	3.8	0.1	35	1.1
17	Hairy Vetch	Winter King	33	3	22.1	5.3	4.0	0.3	222	80	5.2	0.3	42	1.0
Brassicas														
18	Rapeseed	Bonar	-	-	-	-	-	-	-	-	-	-	-	-
19	Rapeseed	Barsica	-	-	-	-	-	-	-	-	-	-	-	-
20	Collard	Impact	-	-	-	-	-	-	-	-	-	-	-	-
21	Radish	Nitro	-	-	-	-	-	-	-	-	-	-	-	-
22	Camelina	Camelina	-	-	-	-	-	-	-	-	-	-	-	-
Mixes														

23	Oat+Collard	Jerry+Impact	44	3	-	-	-	-	-	-	-	-	-	-
24	Barley+Radish	P919+Nitro	52	6	10.6	2.8	4.7	0.7	50	19	4.0	0.3	40	0.1
25	Rye+Hairy vetch	Elbon+AU merit	47	7	54.2	2.8	17.9	1.4	2418	31	2.7	0.2	46	0.2
26	Triticale+Hairy vetch	Montech+AU merit	48	5	31.7	4.2	10.1	0.3	850	88	4.1	0.2	42	0.5
27	Wheat+Hairy vetch	Gore+Winter King	62	4	23.5	5.7	9.8	1.0	649	39	4.3	0.2	45	0.7
28	Rye+Rapeseed+Hairy vetch	Elbon+Barsica+MT	42	5	41.9	3.6	17.3	1.4	1395	125	3.1	0.3	45	0.8
29	Triticale+Rapeseed+Hairy vetch	Montech+Barsica+MT	35	1	24.5	3.2	8.7	0.4	534	22	4.3	0.1	44	0.4
30	Wheat+Rapeseed+Hairy vetch	Gore+Barsica+MT	57	3	25.4	4.8	8.7	0.9	487	103	4.1	0.1	43	0.6

†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 29, 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
Previous crop:	Wheat
Pre-plant herbicide:	None
Fertilizer at planting:	None
Irrigation:	Non-irrigated
Total precipitation during growing period:	8.2"
Termination date:	May 11, 2023