



Panhandle Research, Extension, & Education Center, Scottsbluff

2022 Spring Cover Crop Variety Trial (Rainfed)

UNIVERSITY of NEBRASKA
LINCOLN

Type	Species	Variety	Biomass (tons/acre)	Std err	N (lbs./acre)	Std err	C:N ratio	Std err	CP (%)	Std err	TDN (%)	Std err	ADF (%)	Std err	RFQ (%)	Std err
Grasses																
1	Spring forage barley	Lavina	0.38	0.10(4)	58	13(4)	11	0.3(4)	24	0.8(4)	78	1.0(4)	21	0.9(4)	151	5(4)
2	Spring barley	Robust	0.43	0.12(4)	69	13(4)	10	0.8(4)	27	1.0(3)	80	0.8(3)	20	0.7(3)	109	14(3)
3	Winter barley	P919	0.26	0.03(4)	38	4(4)	11	0.7(4)	22	1.0(4)	78	0.8(4)	22	0.7(4)	164	17(4)
4	Spring oats	Goliath	0.32	0.03(4)	41	5(4)	14	0.6(4)	19	0.7(4)	79	0.4(4)	21	0.3(4)	196	8(4)
5	Spring oats	Hayden	0.31	0.07(4)	42	9(4)	13	0.4(4)	20	0.6(4)	77	0.5(4)	22	0.4(4)	180	3(4)
6	Spring oats	Jerry	0.30	0.10(4)	35	13(4)	14	1.5(4)	17	1.3(3)	81	1.2(3)	19	1.0(3)	199	15(3)
7	Spring triticale	Surge	0.34	0.07(4)	49	11(4)	12	0.1(4)	21	0.3(4)	79	1.1(4)	21	0.9(4)	171	5(4)
Legumes																
8	Spring pea	Pea4010	0.30	0.05(4)	48	9(4)	11	0.2(4)	25	0.7(4)	78	0.9(4)	22	0.8(4)	146	7(4)
9	Winter pea	Survivor	0.32	0.04(4)	54	6(4)	10	0.7(4)	25	1.2(4)	80	0.6(4)	20	0.6(4)	167	10(4)
10	Winter pea	WyoWinter	0.10	0.03 (3)	17	1(3)	10	0.3(3)	26	1.0(3)	79	1.5(3)	21	1.3(3)	165	9(3)
11	Faba bean	Petite	0.14	0.02(4)	19	4(3)	12	0.2(3)	22	0.3(3)	78	0.4(3)	21	0.4(3)	183	7(3)
Brassicas																
12	Rapeseed	Bonar	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Rapeseed	Barsica	0.05	-(1)	8	-(1)	9	-(1)	-	-	-	-	-	-	-	-
14	Collard	Impact	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Two-way mixture																
15	Oat+Pea	Goliath+4010	0.27	0.08(4)	36	8(4)	13	0.7(4)	21	1.1(4)	79	1.3(4)	21	1.1(4)	186	8(4)
16	Oat+Pea	Hayden+4010	0.31	0.08(4)	46	12(4)	12	0.8(4)	23	1.6(4)	78	0.5(4)	22	0.5(4)	161	9(4)
17	Triticale+Pea	Surge+4010	0.25	0.06(4)	36	9(4)	12	0.4(4)	23	0.6(4)	79	0.7(4)	21	0.6(4)	162	7(4)
Three-way mixture																
18	Barley+Pea+Rapeseed	Lavina+4010+Barsica	0.22	0.07(4)	40	13(4)	10	0.2(4)	28	0.6(4)	80	0.6(4)	20	0.5(4)	115	8(4)
19	Oat+Pea+Rapeseed	Goliath+4010+Barsica	0.30	0.07(4)	42	10(4)	12	0.5(4)	21	1.0(4)	78	0.4(4)	21	0.4(4)	184	4(4)
20	Triticale+Pea+Rapeseed	Surge+4010+Barsica	0.18	0.04(4)	28	6(4)	11	0.4(4)	25	1.2(4)	79	1.4(4)	20	1.2(4)	150	7(4)

N: Nitrogen; Std err: Standard error; C: Carbon; CP: Crude Protein; TDN: Total Digestible Nutrients; ADF: Acid Detergent Fiber; RFQ: Relative Forage Quality

The value in parenthesis in standard error column indicates the number of reps used to calculate standard error for each corresponding parameter on the left column.

Management details

Cooperator/site:	PHREEC/Scottsbluff County
Soil type:	Tripp very fine sandy loam
Planting date:	March 23, 2022
Seeding depth:	1.25"
Soil moisture at planting:	Adequate at seeding depth
Implement/tools:	DCS research drill
Rows/plot:	6
Row spacing:	10"
Plot length:	30'
Alley width:	3'
Tillage:	No-till
Previous crop:	Corn
Pre-plant herbicide:	Fall glyphosate (32 oz)
Fertilizer at planting:	None
Irrigation:	Non-irrigated
Total precipitation during growing period:	3.9"
Termination date:	May 24, 2022