



Haskell Agricultural Laboratory, Concord

2022 Fall Cover Crop Variety Trial (Inter-Seeded into Irrigated Corn)

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	31	11	-	-	-	-	-	-	-	-	-	-
2	Oat	Hayden	17	3	-	-	-	-	-	-	-	-	-	-
3	Barley	P919	54	13	4.3	0.8	11.1	0.6	83	24	4.9	0.2	41	1.8
4	Barley	NB15420	39	8	2.9	0.3	12.0	1.0	52	25	4.8	0.5	42	2.6
5	Triticale	NT14433	30	8	24.9	4.5	16.2	0.6	495	134	3.2	0.3	43	0.3
6	Triticale	Montech	44	8	24.0	3.2	15.6	0.6	873	89	3.1	0.2	43	0.6
7	Wheat	Gore	56	7	15.8	2.5	12.5	0.1	400	51	3.4	0.1	43	0.6
8	Wheat	Goodstreak	52	17	28.3	5.5	14.3	0.9	590	159	3.3	0.1	43	0.4
9	Rye	Elbon	41	13	54.2	4.4	25.0	1.7	2128	458	2.0	0.0	46	0.4
10	Rye	Yankee	81	16	34.3	4.2	18.5	1.3	800	50	2.5	0.1	45	0.4
11	Rye	Hazlet	45	12	40.1	5.1	20.0	1.4	824	255	2.8	0.4	44	0.4
Legumes														
12	Hairy Vetch	Aumerit	14	7	4.8	1.6	8.6	2.0	124	69	4.4	0.2	43	1.2
13	Hairy Vetch	NE	11	6	15.3	6.7	9.7	2.2	290	77	4.5	0.2	45	0.4
14	Hairy Vetch	Winter King	12	5	2.3	0.3	4.8	0.6	138	89	5.2	0.5	45	0.8
Brassicas														
15	Rapeseed	Bonar	53	24	-	-	-	-	-	-	-	-	-	-
16	Rapeseed	Barsica	43	15	-	-	-	-	-	-	-	-	-	-
17	Collard	Impact	44	26	-	-	-	-	-	-	-	-	-	-
18	Radish	Nitro	18	11	-	-	-	-	6	2	3.8	0.2	38	1.4
19	Camelina	Camelina	3	3	-	-	-	-	-	-	-	-	-	-
Mixes														
20	Oat+Collard	Jerry+Impact	21	5	-	-	-	-	3	2	4.2	0.4	35	0.8
21	Barley+Radish	P919+Nitro	37	15	3.3	1.0	12.3	2.2	147	55	4.6	0.4	43	1.4
22	Rye+Hairy vetch	Elbon+AU merit	28	7	31.4	7.7	25.4	1.6	556	78	3.1	0.4	45	0.5

23	Triticale+Hairy vetch	Montech+AU merit	18	8	19.1	2.6	14.7	1.2	513	88	3.7	0.2	43	0.2
24	Wheat+Hairy vetch	Gore+Winter King	31	9	8.6	0.6	11.7	0.2	442	110	3.5	0.2	42	1.0
25	Rye+Rapeseed+Hairy vetch	Elbon+Barsica+MT	25	8	33.3	6.0	21.4	1.8	978	135	2.7	0.1	45	0.6
26	Triticale+Rapeseed+Hairy vetch	Montech+Barsica+MT	24	8	15.0	3.5	13.7	1.2	168	62	3.9	0.2	43	1.0
27	Wheat+Rapeseed+Hairy vetch	Gore+Barsica+MT	31	4	12.4	5.5	12.4	1.2	265	79	4.1	0.2	44	1.2
28	Rye+Hairy vetch	Elbon+NE	32	5	25.7	2.0	20.7	1.0	1245	289	2.8	0.1	45	0.3
29	Wheat+Hairy vetch	Gore+NE	25	11	8.2	2.0	10.6	0.5	198	70	4.7	0.3	43	0.8
30	Triticale+Hairy vetch	Montech+NE	18	9	17.7	3.3	13.1	1.4	429	81	4.2	0.3	45	0.2

†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:	HAL/Concord
Soil type:	Silt loam
Planting date:	Sep 09, 2022
Seeding depth:	Broadcasted
Soil moisture at planting:	Fairly wet
Implement/tools:	Hand spreader
Rows/plot:	6
Row spacing:	10"
Plot length:	30'
Alley width:	3'
Tillage:	No-till
Previous crop:	Inter-seeded into corn
Pre-plant herbicide:	None
Fertilizer at planting:	None
Irrigation:	irrigated
Total precipitation during growing period:	10.2"
Termination date:	May 15, 2023