



## Green Cover, Bladen, Nebraska

### 2023 Summer Cover Crop Variety Trial

Type	Species	Variety	Stand count (2ft <sup>2</sup> )	Std err	Height (cm)	Std err	GC (%)	Std err	Biomass (Mg/ha)	Std err	CN ratio	Std err	CP (%)	Std err	TDN (%)	Std err	RFQ (%)	Std err
<b>Grasses</b>																		
1	Sorghum-sudan	Super sugar	15	1	12	0.9	3.9	0.6	20.3	1.2	83	6	8	1.8	54	2.6	97	8
2	Sorghum-sudan	Sweet forever	21	2	11	1.2	3.6	0.8	45.4	4.1	51	6	8	1.1	55	1.8	104	9
3	Sudan-grass	Piper	36	5	12	0.4	4.1	0.3	16.4	0.7	64	6	6	1.5	54	1.3	98	5
4	Forage-sorghum	Coes	13	1	8	0.8	1.0	0.1	28.0	2.8	77	20	9	1.1	58	0.7	118	2
5	Forage-sorghum	D110	12	2	9	0.5	1.8	0.6	24.5	5.4	64	9	8	0.6	56	0.7	112	3
6	Pearl-millet	Tifleaf	37	4	8	0.9	3.2	0.6	20.1	4.5	43	3	9	1.0	59	1.3	124	5
7	Foxtail-millet	German	57	9	7	0.5	2.3	0.6	15.5	2.5	50	7	8	0.7	57	1.4	114	6
8	Grazing Popcorn	-	4	1	9	0.8	0.8	0.1	23.1	5.2	93	20	10	1.7	57	0.7	103	3
9	Teff	-	62	19	5	1.2	1.3	0.6	12.7	2.4	28	2	10	1.0	54	0.7	105	2
<b>Legumes</b>																		
10	Sunnhemp	VNS	15	6	9	0.1	3.2	1.0	17.3	2.3	46	1	9	0.9	44	1.4	67	5
11	Cowpea	Iron	16	1	10	0.9	4.8	0.5	9.5	0.5	30	2	14	0.8	50	1.8	126	16
<b>Broadleaves</b>																		
12	Buckwheat	Mancan	32	4	11	1.1	26.3	5.4	8.8	1.5	40	6	6	0.3	51	3.7	94	11
13	Sunflower	Black oil	11	2	7	1.1	4.5	0.3	9.3	2.0	42	4	8	1.5	49	2.5	82	2
14	African cabbage	-	15	4	4	0.5	3.7	0.6	13.2	1.4	54	5	6	0.5	42	0.7	73	1
<b>Mixes</b>																		
15	WS Soil builder	13-species	22	5	10	0.4	5.1	1.1	28.9	1.9	32	3	7	0.3	49	1.0	95	4
16	WS Grazing mix	12-species	43	5	10	0.4	10.8	0.2	18.2	3.4	37	1	9	0.1	56	0.8	135	4
17	Mycorrhizal mix	12-species	36	5	15	0.6	6.9	0.4	16.9	2.0	41	3	8	0.7	51	0.7	97	4
18	High diversity	25-species	62	16	12	0.8	10.6	1.1	37.6	18.9	43	5	9	1.0	53	2.4	114	11

†Std err: Standard error; GC: Ground Cover; C: Carbon; N: nitrogen; CP: Crude Protein; TDN: Total Digestible Nutrients; RFQ: Relative Forage Quality. The stand error value (n = 3) is for each corresponding parameter on the left column.

- ❖ Soil builder: Cowpeas, Soybeans Non-GMO, Mung Beans, Sunn Hemp, PPS Sorghum Sudan, German Millet, Brown Top Millet, African Cabbage, Rapeseed, Florida Broadleaf Mustard, Black Oil Sunflower, Buckwheat, Okra, and Brown Flax
- ❖ Grazing mix: Iron & Clay Cowpeas, Hutchenson Soybeans non-GMO, Mung Beans, Exceed BMR Pearl Millet, German Millet (Golden), Endurance AT BMR Dwarf Sorghum, Sudan UN, Coes Forage Sorghum, Impact Forage Collards, Black Oil Sunflower, Purple Top Turnip, Mancan Buckwheat, and Clemson Spineless 80 Okra
- ❖ Mycorrhizal mix: Mung Beans, Common Vetch, Spring Lentil, Crimson Clover, Spring Oats, Spring Forage Barley, Forage Sorghum, German Millet, Brown Flax, Phacelia, Black Oil Sunflower, and Baldy Safflower
- ❖ High diversity mix: Ryegrass, Okra, Hairy Vetch, Sunn Hemp, Safflower, Lentils, Cucurbit Blend, Fenugreek, Mung Beans, Sunflower, Barley, Flax, Soybeans, Millet, Cowpeas, Buckwheat, Faba Beans, Peas, Triticale, Brassica Blend, Oats, Clover Blend, Wheat, Sorghum, and Cereal Rye
- ❖ Stand count was recorded 14 days after planting on June 07, 2023
- ❖ Cover crop height recorded at the time of stand count (i.e., 14 days after planting on June 07, 2023)

## Management details

Cooperator/site:	Green Cover/Webster County
Soil type:	Fine sandy loam
Planting date:	May 24, 2023
Seeding depth:	Variable
Soil moisture at planting:	Adequate
Fertilizer at planting:	None
Irrigation:	None
Fertilizer N:	None
Total precipitation during growing period:	9.3"
Termination date:	October 12, 2023