

Table 1. Winter annual small grain forage study, 2014-2015, Southwest Research-Extension Center at Garden City, KS

Investigators: J. Holman, T. Roberts, and S. Maxwell

**Study Description**

<b>Location:</b>		<b>Management Practices:</b>		<b>Growing Conditions:</b>		
County/Area:	Finney	Previous Crop:	Corn		Avg.	
Longitude:	100°49'	Planting Date:	9/26/2014		Precip.	Precip. <sup>a</sup>
Latitude:	37°59'	Forage Harvest:	Single harvest per plot fall & spring		in.	
Elevation:	2865 ft	Fall:	12/10/2014	Oct	1.78	1.21
Soil Series:	Ulysses Silt Loam	Spring:	5/12/2015 & 5/27/2015	Nov	0.03	0.55
Soil Texture:	Silt Loam			Dec	0.4	0.59
Soil Depth:	>80"			Jan	0.3	0.46
		<b>Production Inputs:</b>		Feb	1.21	0.55
		Nutrient:	Rate (lb/a)    Date	Mar	0.32	1.31
<b>Study Design:</b>		N	74    Carryover	Apr	0.37	1.74
Replications:	Ok State Univ.	P	59    Carryover	May	6.38	2.98
Plot Length:	30 ft	N	5.5    9/26/2014	<sup>a</sup> Average precipitation is 30-yr mean		
Plot Width:	7.5 ft	P	26    9/26/2014	Seasonal Precipitation	10.79	9.39
Drill Row Spacing:	8 in	N	100    3/25/2015	Total Irrigation		6.47
Rows per plot:	11					
		Herbicides:	Rate    Date			
<b>Seeding Rate:</b>		Starane Ultra	0.4 pt/a    4/3/2015			
All Entries:	70 lb/a	MCPA	0.375 qt/a    4/3/2015			
		Ally (Ciramet)	0.1 oz/a    4/3/2015			
		NIS	0.375 pt/a    4/3/2015			
		Other:	Rate    Date			
		None				

**Field Notes:**

Above normal precipitation and below normal temperatures for the month of May.

Later maturing Slick Trit II performed well in 2015, which may have been in part due to cooler temperature and above normal precipitation late in the growing season.

Recommend more than 1 year of results before making variety selection decisions.

Table 2. Winter annual small grain forage yield, 2014-2015, Southwest Research-Extension Center at Garden City, KS

	Company	Species	Awn-Type	Harvest Date	Fall Yield	Spring Yield	Fall + Spring Yield	Plant Height	Lodging
					lbs/acre <sup>a</sup>	lbs/acre <sup>a</sup>	lbs/acre <sup>a</sup>	inches	%
Thundercale F	Ehmke Seed	Triticale	Awned	5/12/2015	278	7575	7853	37	0
Thundercale	Ehmke Seed	Triticale	Awned	5/12/2015	<b><u>520</u></b>	9308	<b><i>9828<sup>d</sup></i></b>	45	0
Thundertall II	Ehmke Seed	Triticale	Awned	5/12/2015	144	9035	9179	49	0
Short Beard Thunder	Ehmke Seed	Triticale	Awned <sup>b</sup>	5/12/2015	<b><u>424</u></b>	9821	<b><i>10245</i></b>	46	0
Thundercale AVO	Ehmke Seed	Triticale	Awned	5/12/2015	197	8275	8472	36	0
ThunderGreen DL Rye	Ehmke Seed	Cereal Rye	Awned	5/12/2015	221	7876	8097	44	17
Thundercale MAES	Ehmke Seed	Triticale	Awned	5/12/2015	306	9914	10221	42	0
ThunderGreen II Rye	Ehmke Seed	Cereal Rye	Awned	5/12/2015	269	8607	8876	46	17
Thundercale V	Ehmke Seed	Triticale	Awned	5/12/2015	221	10116	10337	44	0
Thundertall	Ehmke Seed	Triticale	Awned	5/12/2015	<b><u>600</u></b>	9109	<b><i>9709</i></b>	48	33
348	AgriPro	Triticale	Awnletted	5/12/2015	366	10284	10650	48	<b><u>83</u></b>
Forerunner	Barenburg	Triticale	Awnletted	5/12/2015	<b><u>481</u></b>	9727	<b><i>10207</i></b>	50	0
Endurance	Ok State Univ.	Wheat (control)	Awned	5/12/2015	185	5125	5310	37	0
NF 201 Trit	Noble Foundation	Triticale	Awned	5/12/2015	<b><u>531</u></b>	9427	<b><i>9958</i></b>	<b><u>56</u></b>	0
Slick Trit II	Watley Seed Co.	Triticale	Awnletted	5/27/2015 <sup>c</sup>	338	<b><u>14011</u></b>	<b><u>14349</u></b>	45	8
WS I	Watley Seed Co.	Triticale	Awnletted	5/12/2015	<b><u>492</u></b>	9744	<b><i>10236</i></b>	46	8
LSD					211.54	2000.40	2049.20	3.65	31.80

a Values in bold and underlined are in the highest LSD group, P ≤ 0.05.

b Short Beard Thunder classified as awnletted but in this study most plants were classified as awned.

c All varieties cut at heading, variety Slick Trit II was later maturing and harvested on 5/27/2015.

d Values in bold and italicized are in the highest LSD group for fall yield and second highest LSD group for spring yield, P ≤ 0.05.