

Table 1. Winter Annual Small Grain Forages, 2017-2018, Agricultural Science Center at Clovis

Investigators: B. Niece, A. Scott, and A. Mesbah

Test Description

Location:	Management Practices:	Growing Conditions:																																																																																																
County/Area: Curry Longitude: -103.22 Latitude: 34.60 Elevation: 4435 ft. Soil Name: Olton Soil Texture: clay loam Soil Depth: >60 in.	Previous Crop: fallow Planting Date: 23-Oct <u>Forage Harvest - Single harvest per plot</u> Harvest Dates: 18-Apr to 11-May (Mechanically harvested all of each plot based on stage of maturity. Clipping height was 1 to 2 in.) Production Inputs: <table style="margin-left: 20px; border: none;"> <thead> <tr> <th></th> <th style="text-align: center;">Rate</th> <th style="text-align: center;">Date</th> </tr> <tr> <th></th> <th style="text-align: center;">lb/ac</th> <th></th> </tr> </thead> <tbody> <tr> <td colspan="3">Fertilizer:</td> </tr> <tr> <td>Nitrogen</td> <td style="text-align: center;">65</td> <td style="text-align: center;">carryover</td> </tr> <tr> <td>Nitrogen</td> <td style="text-align: center;">64 lb/ac</td> <td style="text-align: center;">2-Feb</td> </tr> <tr> <td>S</td> <td style="text-align: center;">12 lb/ac</td> <td style="text-align: center;">2-Feb</td> </tr> <tr> <td colspan="3">Herbicides:</td> </tr> <tr> <td>Govern</td> <td style="text-align: center;">1 pt/ac</td> <td style="text-align: center;">5-Feb</td> </tr> <tr> <td>Lo-Vol 6</td> <td style="text-align: center;">12.0 oz/ac</td> <td style="text-align: center;">5-Feb</td> </tr> <tr> <td>Prowl H2O</td> <td style="text-align: center;">3 pt/ac</td> <td style="text-align: center;">5-Feb</td> </tr> <tr> <td>Affinity BS</td> <td style="text-align: center;">0.6 oz/ac</td> <td style="text-align: center;">5-Feb</td> </tr> <tr> <td colspan="3">Insecticides:</td> </tr> </tbody> </table>		Rate	Date		lb/ac		Fertilizer:			Nitrogen	65	carryover	Nitrogen	64 lb/ac	2-Feb	S	12 lb/ac	2-Feb	Herbicides:			Govern	1 pt/ac	5-Feb	Lo-Vol 6	12.0 oz/ac	5-Feb	Prowl H2O	3 pt/ac	5-Feb	Affinity BS	0.6 oz/ac	5-Feb	Insecticides:			<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Average</th> <th></th> <th></th> </tr> <tr> <th></th> <th style="text-align: center;">Temp.</th> <th style="text-align: center;">Precip.</th> <th style="text-align: center;">Irrigation</th> </tr> <tr> <th></th> <th style="text-align: center;">°F</th> <th style="text-align: center;">in.</th> <th style="text-align: center;">in.</th> </tr> </thead> <tbody> <tr> <td>October</td> <td style="text-align: center;">56.5</td> <td style="text-align: center;">2.04</td> <td style="text-align: center;">1.50</td> </tr> <tr> <td>November</td> <td style="text-align: center;">50.0</td> <td style="text-align: center;">0.00</td> <td style="text-align: center;">1.00</td> </tr> <tr> <td>December</td> <td style="text-align: center;">38.1</td> <td style="text-align: center;">0.00</td> <td style="text-align: center;">0.00</td> </tr> <tr> <td>January</td> <td style="text-align: center;">35.2</td> <td style="text-align: center;">0.00</td> <td style="text-align: center;">0.00</td> </tr> <tr> <td>February</td> <td style="text-align: center;">40.3</td> <td style="text-align: center;">0.09</td> <td style="text-align: center;">1.75</td> </tr> <tr> <td>March</td> <td style="text-align: center;">49.3</td> <td style="text-align: center;">0.04</td> <td style="text-align: center;">3.60</td> </tr> <tr> <td>April</td> <td style="text-align: center;">52.8</td> <td style="text-align: center;">0.69</td> <td style="text-align: center;">5.60</td> </tr> <tr> <td>May†</td> <td style="text-align: center;">66.1</td> <td style="text-align: center;">0.00</td> <td style="text-align: center;">3.20</td> </tr> <tr> <td colspan="4"><hr/></td> </tr> <tr> <td>†May 1-11</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Seasonal Precipitation</td> <td></td> <td style="text-align: center;">2.86 in.</td> <td></td> </tr> <tr> <td>Total Irrigation</td> <td></td> <td style="text-align: center;">16.65 in.</td> <td></td> </tr> </tbody> </table>		Average				Temp.	Precip.	Irrigation		°F	in.	in.	October	56.5	2.04	1.50	November	50.0	0.00	1.00	December	38.1	0.00	0.00	January	35.2	0.00	0.00	February	40.3	0.09	1.75	March	49.3	0.04	3.60	April	52.8	0.69	5.60	May†	66.1	0.00	3.20	<hr/>				†May 1-11				Seasonal Precipitation		2.86 in.		Total Irrigation		16.65 in.	
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Test Design: Replications: 3 Plot Length: 7 ft. Plot Width: 6.73 ft. Rows per Plot: 11 Drill Row Spacing: 6.25 in.																																																																																																		
Seeding Rate: All Entries: 100 lb/a 1 Entry: 120 lb/a 1 Entry: 110 lb/a																																																																																																		
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Table 2. Forage Harvest - Winter Annual Small Grain Forages - 2017-2018 Various Dates - NMSU Agricultural Science Center

Company Name	Variety Name	Species [†]	Harvest Date	Dry	65%	Moisture
				Forage T/ac	Forage T/ac	at Harvest %
Ehmke Seed	Thunder Tall II	T	11-May	7.6 ***	21.8 ***	75.7
UNL Husker Genetics	NE 96T441	T	11-May	7.1 *	20.3 *	77.3
TriCal Superior Forage	Exp. 17201	T	7-May	7.1 *	20.2 *	75.3
Ehmke Seed	Thunder Tall	T	11-May	6.9 *	19.8 *	77.0
Agricultural Developmant Co.	Ulitimate" Triticale	T	11-May	6.8 *	19.4 *	77.0
Watley Seed	SlickTrit II	T	11-May	6.8 *	19.3 *	77.3
Ehmke Seed	Thunder Green	R	30-Apr	6.5	18.6	80.3 *
TriCal Superior Forage	Trical 348	T	7-May	6.5	18.5	77.3
TriCal Superior Forage	Exp. 16T2018	T	4-May	6.0	17.2	79.3
TriCal Superior Forage	Trical 813	T	4-May	6.0	17.2	80.3 *
UNL Husker Genetics	NT 13416	T	27-Apr	6.0	17.2	76.0
TriCal Superior Forage	Flex 719	T	4-May	3.0	17.2	78.7
Sharp Brothers Seed Co.	Triticale 718	T	4-May	6.0	17.2	77.3
TriCal Superior Forage	SY TF 131	T	27-Apr	5.9	17.0	76.3
Ehmke Seed	Thunder Cale F	T	30-Apr	5.9	16.8	75.7
Chromatin	KWS Progas	R	27-Apr	5.7	16.1	81.3 *
UNL Husker Genetics	NT 13443	T	4-May	5.6	16.1	78.0
UNL Husker Genetics	NT 09404	T	27-Apr	5.4	15.5	77.3
UNL Husker Genetics	NT 09423	T	30-Apr	5.4	15.4	76.3
Agri Pro	SY Monument	W	4-May	5.3	15.2	76.0
UNL Husker Genetics	NT 11406	T	27-Apr	5.3	15.2	77.3
Ehmke Seed	Thunder Cale V	T	27-Apr	5.3	15.2	78.7
TriCal Superior Forage	Exp. 1331412	T	27-Apr	5.2	14.9	76.3
UNL Husker Genetics	NT 12414	T	27-Apr	5.2	14.8	77.3
UNL Husker Genetics	NT 11428	T	27-Apr	5.2	14.8	77.3
UNL Husker Genetics	NT 12434	T	4-May	5.1	14.7	81.3 ***
UNL Husker Genetics	NT 12403	T	23-Apr	4.8	13.7	78.0
AGSECO	Triticale 135	T	23-Apr	4.8	13.6	77.0
Ehmke Seed	Shortbeard Thunder	T	23-Apr	4.6	13.1	78.3
TriCal Superior Forage	Exp. 103126	T	18-Apr	4.5	12.9	77.3
TriCal Superior Forage	Exp. 1331319	T	23-Apr	4.5	12.9	77.3
Watley Seed	TAM 204	T	27-Apr	4.4	12.7	71.0
TriCal Superior Forage	Exp. 30412	T	18-Apr	4.3	12.4	77.7
TriCal Superior Forage	Trical Gainer 154	T	18-Apr	4.2	12.0	78.0
Ehmke Seed	Thunder Cale	T	18-Apr	4.2	12.0	77.3
Agri Pro	SY Grit	W	23-Apr	4.1	11.7	71.3
UNL Husker Genetics	NT 07403	T	18-Apr	3.9	11.3	75.3
			Trial Mean	5.5	15.8	77.2
			LSD (0.05)	0.9	2.5	0.02
			CV	9.9	9.9	1.3
			F Test	<.0001	<.0001	<.0001

[†]B=barley; T=triticale; W=wheat, R=Rye

Plots were harvested at Feekes stage 10.0-10.3; 10.0=sheath of flag leaf completely grown out, ear not visible; 10.3= half of headin

*** Highest numerical value in the column.

Unless otherwise indicated, all entries planted at 100 lb/ac rate.