

Table 1. Winter Annual Small Grain Forages, 2012-2013, Agricultural Science Center at Clovis

Investigators: M.A. Marsalis, A. Scott, B. Niece

Test Description

<p>Location: County/Area: Curry Longitude: -103.22 Latitude: 34.60 Elevation: 4435 ft. Soil Name: Olton Soil Texture: clay loam Soil Depth: >60 in.</p> <p>Test Design: Replications: 3 Plot Length: 10 ft. Plot Width: 6.73 ft. Rows per Plot: 11 Drill Row Spacing: 6.25 in.</p> <p>Seeding Rate: All Entries: 100 lb/a</p> <p>Field Notes: Multiple freeze events from mid-April to mid-May Severely damaged heads and stalks Stunted growth</p>	<p>Management Practices: Previous Crop: fallow Planting Date: 18-Oct <i>Forage Harvest - Single harvest per plot</i> Harvest Dates: 13-May All Plots (Mechanically harvested all of each plot based on stage of maturity. Clipping height was 1 to 2 in.)</p> <p>Production Inputs:</p> <table border="1"> <thead> <tr> <th></th> <th>Rate lb/ac</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td colspan="3">Fertilizer:</td> </tr> <tr> <td>Nitrogen</td> <td>80</td> <td>Carryover</td> </tr> <tr> <td>Nitrogen</td> <td>15</td> <td>15-Oct</td> </tr> <tr> <td>Nitrogen</td> <td>30</td> <td>2-Mar</td> </tr> <tr> <td>P₂O₅</td> <td>50</td> <td>15-Oct</td> </tr> <tr> <td>Zn</td> <td>1</td> <td>15-Oct</td> </tr> <tr> <td>S</td> <td>5</td> <td>2-Mar</td> </tr> <tr> <td colspan="3">Herbicides:</td> </tr> <tr> <td>Affinity BroadSpec</td> <td>0.6 oz/ac</td> <td>12-Mar</td> </tr> <tr> <td>Lo-Vol 6</td> <td>8.0 oz/ac</td> <td>12-Mar</td> </tr> <tr> <td colspan="3">Insecticides:</td> </tr> <tr> <td>Lorsban</td> <td>1 pt/ac</td> <td>12-Mar</td> </tr> </tbody> </table>		Rate lb/ac	Date	Fertilizer:			Nitrogen	80	Carryover	Nitrogen	15	15-Oct	Nitrogen	30	2-Mar	P ₂ O ₅	50	15-Oct	Zn	1	15-Oct	S	5	2-Mar	Herbicides:			Affinity BroadSpec	0.6 oz/ac	12-Mar	Lo-Vol 6	8.0 oz/ac	12-Mar	Insecticides:			Lorsban	1 pt/ac	12-Mar	<p>Growing Conditions:</p> <table border="1"> <thead> <tr> <th></th> <th>Average Temp. °F</th> <th>Precip. in.</th> <th>Irrigation in.</th> </tr> </thead> <tbody> <tr> <td>October</td> <td>57.0</td> <td>0.43</td> <td>1.30</td> </tr> <tr> <td>November</td> <td>50.0</td> <td>0.04</td> <td>0.00</td> </tr> <tr> <td>December</td> <td>40.0</td> <td>0.08</td> <td>1.50</td> </tr> <tr> <td>January</td> <td>35.3</td> <td>0.45</td> <td>0.00</td> </tr> <tr> <td>February</td> <td>38.5</td> <td>0.79</td> <td>0.00</td> </tr> <tr> <td>March</td> <td>46.9</td> <td>0.03</td> <td>3.00</td> </tr> <tr> <td>April</td> <td>52.4</td> <td>0.00</td> <td>6.00</td> </tr> <tr> <td>May</td> <td>64.0</td> <td>0.13</td> <td>1.50</td> </tr> <tr> <td colspan="2">Seasonal Precipitation</td> <td colspan="2">1.95 in.</td> </tr> <tr> <td colspan="2">Total Irrigation</td> <td colspan="2">13.30 in.</td> </tr> </tbody> </table>		Average Temp. °F	Precip. in.	Irrigation in.	October	57.0	0.43	1.30	November	50.0	0.04	0.00	December	40.0	0.08	1.50	January	35.3	0.45	0.00	February	38.5	0.79	0.00	March	46.9	0.03	3.00	April	52.4	0.00	6.00	May	64.0	0.13	1.50	Seasonal Precipitation		1.95 in.		Total Irrigation		13.30 in.	
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Table 2. Forage Harvest - Winter Annual Small Grain Forages - 2012-2013 Various Dates - NMSU Agricultural Science Center at Clovis

Company Name	Variety Name	Species [†]	Harvest Date	Dry	65%	Moisture	Irrigation Efficiency	Milk/Ton	Milk/Acre
				Forage T/ac	Moisture Forage T/ac	at Harvest %			
Curtis & Curtis Seed, Inc.	X2	T	13-May	5.5 ***	15.8 ***	75.0 *	0.415 ***	2947	16278
Ehmke Seed	ThunderTall II	T	13-May	5.5 ***	15.6 *	75.4 *	0.410 *	3396 ***	18523 ***
Watley Seed Co.	SlickTrit	T	13-May	5.3 *	15.1 *	75.2 *	0.397 *	2775	14633
Watley Seed Co.	SlickTrit II	T	13-May	5.2 *	14.9 *	72.2	0.393 *	2832	14777
Watley Seed Co.	WS-4	T	13-May	5.1 *	14.5 *	75.9 *	0.382 *	2952	14924
Ehmke Seed	ThunderTall	T	13-May	5.1 *	14.5 *	76.3 ***	0.380 *	3192 *	16112
Curtis & Curtis Seed, Inc.	X3	T	13-May	5.0 *	14.4 *	75.0 *	0.379 *	2902	14620
Ehmke Seed	ThunderCale V	T	13-May	5.0 *	14.2 *	75.4 *	0.374 *	2767	13642
Watley Seed Co.	WS-3	T	13-May	5.0 *	14.2 *	76.3 ***	0.375 *	2839	14543
Curtis & Curtis Seed, Inc.	Smoothgrazer Plus	T/W	13-May	5.0 *	14.2 *	73.1 *	0.374 *	2854	14128
Ehmke Seed	ThunderCale	T	13-May	5.0 *	14.2 *	74.7 *	0.373 *	2853	14131
Watley Seed Co.	WS-6	T	13-May	4.9 *	14.0 *	75.9 *	0.368 *	2933	14361
Curtis & Curtis Seed, Inc.	Maximizer Plus	T/W	13-May	4.8	13.7	75.3 *	0.359	3112 *	14860
Curtis & Curtis Seed, Inc.	Smoothgrazer	W/T	13-May	4.6	13.3	74.9 *	0.349	2710	12579
ASC	TAM 111	W	13-May	4.5	12.9	69.5	0.339	3283 *	14742
ASC	Hatcher	W	13-May	4.4	12.7	66.6	0.334	3276 *	14461
ASC	TAM 112	W	13-May	4.4	12.6	67.2	0.332	3357 *	14831
Curtis & Curtis Seed, Inc.	Maximizer	W/T	13-May	4.3	12.2	75.0 *	0.322	2933	12591
Warner Seeds, Inc.	TAM 113	W	13-May	4.2	12.1	69.8	0.319	3115 *	13176
Curtis & Curtis Seed, Inc.	X4	W	13-May	4.2	11.9	67.8	0.314	3022	12584
ASC	Duster	W	13-May	4.0	11.4	67.5	0.300	3202 *	12765
Curtis & Curtis Seed, Inc.	Eldorado	W	13-May	4.0	11.3	74.6 *	0.298	3017	11961
Scott Seed Co.	TAM 304	W	13-May	3.8	10.8	67.0	0.284	3026	11446
ASC	Winterhawk	W	13-May	3.6	10.4	67.5	0.274	3204 *	11663
Trial Mean				4.7	13.4	72.6	0.352	3021	14098
LSD (0.05)				0.7	2.0	3.4	0.054	318	2126
CV				9.3	9.3	2.8	9.3	6.4	9.2
F Test				<0.0001	<0.0001	<0.0001	<0.0001	0.0006	<0.0001

[†]B=barley; T=triticale; W=wheat

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 heading process complete.

*** Highest numerical value in the column.

* Not significantly different from the highest numerical value in the column based on the 5% LSD.

Table 3. Forage Harvest - Winter Annual Small Grain Forages - 2012-2013 Various Dates - NMSU Agricultural Science Center at Clovis

Company Name	Variety Name	Species [†]	Harvest Date	CP	ADF	NDF	dNDF	TDN	RFQ
				% of DM	% of DM	% of DM	Dig. 48h % of NDF	% of DM	
Curtis & Curtis Seed, Inc.	X2	T	13-May	16.4	32.2 *	53.7 *	64.7	62.4	142
Ehmke Seed	ThunderTall II	T	13-May	19.8 ***	28.3	49.4	70.1 *	67.7 *	172 *
Watley Seed Co.	SlickTrit	T	13-May	16.0	33.3	54.5 *	64.3	60.0	133
Watley Seed Co.	SlickTrit II	T	13-May	15.2	33.5 ***	54.3 *	59.5	61.5	132
Watley Seed Co.	WS-4	T	13-May	17.0	32.4 *	52.9 *	66.4	62.2	145
Ehmke Seed	ThunderTall	T	13-May	18.4 *	29.9	50.8	71.2 *	65.1 *	164
Curtis & Curtis Seed, Inc.	X3	T	13-May	18.4 *	31.3 *	52.9 *	66.9	61.5	144
Ehmke Seed	ThunderCale V	T	13-May	15.6	32.4 *	53.2 *	62.8	60.1	134
Watley Seed Co.	WS-3	T	13-May	17.6	33.1 *	55.1 ***	66.1	60.7	137
Curtis & Curtis Seed, Inc.	Smoothgrazer Plus	T/W	13-May	17.2	32.1 *	52.4	66.5	60.9	144
Ehmke Seed	ThunderCale	T	13-May	16.0	31.4 *	52.4	60.6	61.5	136
Watley Seed Co.	WS-6	T	13-May	16.8	32.4 *	53.8 *	64.6	62.2	140
Curtis & Curtis Seed, Inc.	Maximizer Plus	T/W	13-May	18.7 *	29.5	50.9	66.7	64.4 *	155
Curtis & Curtis Seed, Inc.	Smoothgrazer	W/T	13-May	17.8 *	32.1 *	52.6 *	66.3	58.9	138
ASC	TAM 111	W	13-May	17.5	25.5	44.8	68.7	66.6 *	181 *
ASC	Hatcher	W	13-May	18.5 *	26.1	45.9	72.9 ***	66.1 *	182 *
ASC	TAM 112	W	13-May	16.2	24.8	43.7	67.7	67.8 ***	186 ***
Curtis & Curtis Seed, Inc.	Maximizer	W/T	13-May	16.7	31.6 *	51.2	67.8	61.8	150
Warner Seeds, Inc.	TAM 113	W	13-May	17.0	29.0	49.2	67.6	64.4 *	161
Curtis & Curtis Seed, Inc.	X4	W	13-May	17.4	29.1	48.9	64.6	63.4	155
ASC	Duster	W	13-May	17.5	27.0	47.0	68.2	65.5 *	170 *
Curtis & Curtis Seed, Inc.	Eldorado	W	13-May	18.6 *	30.0	51.0	67.5	63.0	153
Scott Seed Co.	TAM 304	W	13-May	17.2	27.7	46.0	68.2	63.1	167
ASC	Winterhawk	W	13-May	17.8 *	26.3	44.9	72.0 *	65.2 *	181 *
	Trial Mean			17.3	30.0	50.5	66.7	63.2	154
	LSD (0.05)			2.1	2.7	2.6	4.0	4.2	18
	CV			7.5	5.4	3.2	3.6	4.1	7.1
	F Test			0.0107	<0.0001	<0.0001	<0.0001	0.0018	<0.0001

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