

Table 1. Winter Annual Small Grain Forages, 2011-2012, 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>Management Practices: Previous Crop: fallow Planting Date: 13-Oct <u>Forage Harvest - Single harvest per plot</u> Harvest Dates: 16-Apr to 30-Apr (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="0"> <thead> <tr> <th></th> <th>Rate</th> <th>Date</th> </tr> <tr> <th></th> <th>lb/ac</th> <th></th> </tr> </thead> <tbody> <tr> <td colspan="3">Fertilizer:</td> </tr> <tr> <td>Nitrogen</td> <td>11</td> <td>Carryover</td> </tr> <tr> <td>Nitrogen</td> <td>30</td> <td>11-Oct</td> </tr> <tr> <td>Nitrogen</td> <td>111</td> <td>17-Feb</td> </tr> <tr> <td>P₂O₅</td> <td>50</td> <td>11-Oct</td> </tr> <tr> <td>Zn</td> <td>1</td> <td>11-Oct</td> </tr> <tr> <td>S</td> <td>3</td> <td>11-Oct</td> </tr> <tr> <td>S</td> <td>20</td> <td>17-Feb</td> </tr> </tbody> </table> <p>Herbicides:</p> <table border="0"> <tbody> <tr> <td>Affinity BroadSpec</td> <td>0.6 oz/ac</td> <td>13-Mar</td> </tr> <tr> <td>Lo-Vol 6</td> <td>8.0 oz/ac</td> <td>13-Mar</td> </tr> </tbody> </table> <p>Insecticides:</p> <table border="0"> <tbody> <tr> <td>Lorsban</td> <td>1 pt/ac</td> <td>13-Mar</td> </tr> </tbody> </table>		Rate	Date		lb/ac		Fertilizer:			Nitrogen	11	Carryover	Nitrogen	30	11-Oct	Nitrogen	111	17-Feb	P ₂ O ₅	50	11-Oct	Zn	1	11-Oct	S	3	11-Oct	S	20	17-Feb	Affinity BroadSpec	0.6 oz/ac	13-Mar	Lo-Vol 6	8.0 oz/ac	13-Mar	Lorsban	1 pt/ac	13-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>58.0</td> <td>1.22</td> <td>1.25</td> </tr> <tr> <td>November</td> <td>45.5</td> <td>0.08</td> <td>0.00</td> </tr> <tr> <td>December</td> <td>32.5</td> <td>1.72</td> <td>0.00</td> </tr> <tr> <td>January</td> <td>40.6</td> <td>0.00</td> <td>0.00</td> </tr> <tr> <td>February</td> <td>39.1</td> <td>0.25</td> <td>1.30</td> </tr> <tr> <td>March</td> <td>52.4</td> <td>0.14</td> <td>5.50</td> </tr> <tr> <td>April</td> <td>59.4</td> <td>0.33</td> <td>7.00</td> </tr> <tr> <td colspan="2">Seasonal Precipitation</td> <td colspan="2">3.74 in.</td> </tr> <tr> <td colspan="2">Total Irrigation</td> <td colspan="2">15.05 in.</td> </tr> </tbody> </table>		Average Temp. °F	Precip. in.	Irrigation in.	October	58.0	1.22	1.25	November	45.5	0.08	0.00	December	32.5	1.72	0.00	January	40.6	0.00	0.00	February	39.1	0.25	1.30	March	52.4	0.14	5.50	April	59.4	0.33	7.00	Seasonal Precipitation		3.74 in.		Total Irrigation		15.05 in.	
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Table 2. Forage Harvest - Winter Annual Small Grain Forages - 2011-2012 Various Dates - NMSU Agricultural Science Center at Clovis

Company Name	Variety Name	Species [†]	Harvest Date	Dry	65%	Moisture	Irrigation	Milk/Ton	Milk/Acre
				Forage T/ac	Moisture Forage T/ac	at Harvest %			
Curtis & Curtis Seed, Inc.	Maximizer Plus	T/W	30-Apr	6.1 ***	17.4 ***	79.1	0.404	2293	13909
Curtis & Curtis Seed, Inc.	X2 Triticale	T	30-Apr	6.0 *	17.0 *	80.0	0.395	1868	11115
Watley Seed	WS III	T	30-Apr	5.8 *	16.6 *	80.4	0.386	2456	14252
Curtis & Curtis Seed, Inc.	SmoothGrazer Plus	T/W	26-Apr	5.8 *	16.4 *	79.1	0.409 *	2171	12574
Curtis & Curtis Seed, Inc.	X3 Triticale	T	30-Apr	5.7 *	16.4 *	78.5	0.381	2215	12683
Ehmke Seed	Thunder Tall II	T	30-Apr	5.7 *	16.4 *	80.8	0.381	2283	13017
Curtis & Curtis Seed, Inc.	X4 Wheat	W	26-Apr	5.6 *	16.0 *	77.1	0.398	2434	13611
Watley Seed	WS V	T	26-Apr	5.6 *	16.0 *	81.1	0.397	2623 *	14609
Watley Seed	SlickTrit	T	26-Apr	5.6 *	15.9 *	80.9	0.397	2239	12499
Watley Seed	SlickTrit II	T	23-Apr	5.6 *	15.9 *	80.2	0.427 *	2087	11608
Ehmke Seed	Thunder Tall	T	30-Apr	5.6 *	15.9 *	83.2 *	0.370	2230	12390
Watley Seed	WS IV	T	30-Apr	5.5	15.6	81.1	0.362	2245	12241
Ehmke Seed	Thunder Cale V	T	19-Apr	5.4	15.4	82.9 *	0.448 *	3183 ***	17172 ***
Curtis & Curtis Seed, Inc.	Smoothgrazer	W/T	26-Apr	5.4	15.3	79.1	0.381	2630 *	14103
Curtis & Curtis Seed, Inc.	Maximizer	W/T	26-Apr	5.3	15.0	79.9	0.374	2311	12193
Watley Seed	WS VI	T	16-Apr	5.0	14.2	83.0 *	0.449 ***	2910 *	14448
Curtis & Curtis Seed, Inc.	Eldorado	W	26-Apr	4.9	13.9	81.0	0.346	2588	12681
Eastern Colorado Seeds	ECS - Blend	B	16-Apr	4.8	13.6	83.7 *	0.430 *	2851 *	13511
Watley Seed	WS VIII	T	16-Apr	4.6	13.3	83.5 *	0.420 *	2805 *	12986
Watley Seed	WS VII	T	16-Apr	4.4	12.6	83.3 *	0.400	2755 *	12176
Eastern Colorado Seeds	Verdant	B	16-Apr	4.2	12.1	83.8 *	0.383	2875 *	12271
Eastern Colorado Seeds	Fridge	T	16-Apr	4.1	11.6	83.0 *	0.367	3026 *	12237
Eastern Colorado Seeds	Forerunner	T	16-Apr	4.0	11.5	83.8 *	0.365	3039 *	12259
Eastern Colorado Seeds	Epic Trit. Blend	T	16-Apr	4.0	11.3	83.9 *	0.358	2979 *	11780
Scott Seed Co.	TAM 304	W	16-Apr	3.7	10.6	80.5	0.336	2915 *	10820
Eastern Colorado Seeds	Hoody	B	16-Apr	3.7	10.5	84.6 ***	0.332	2885 *	10642
Trial Mean				5.1	14.5	81.4	0.388	2573	12838
LSD (0.05)				0.6	1.6	2.0	0.043	561	NS
CV				6.8	6.8	1.5	6.8	13.3	15.8
F Test				<0.0001	<0.0001	<0.0001	<0.0001	0.0002	0.1633

[†]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 - 2011-2012 Various Dates - NMSU Agricultural Science Center at Clovis

Company Name	Variety Name	Harvest 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.	Maximizer Plus	T/W	30-Apr	12.2	43.4 *	64.5 *	55.5	54.4	97
Curtis & Curtis Seed, Inc.	X2 Tritcale	T	30-Apr	9.3	48.4 ***	69.1 ***	52.2	48.9	77
Watley Seed	WS III	T	30-Apr	12.0	42.8 *	63.3 *	58.8	56.2	106
Curtis & Curtis Seed, Inc.	SmoothGrazer Plus	T/W	26-Apr	11.8	44.1 *	65.1 *	53.8	52.9	92
Curtis & Curtis Seed, Inc.	X3 Tritcale	T	30-Apr	12.3	43.0 *	63.6 *	54.0	53.5	93
Ehmke Seed	Thunder Tall II	T	30-Apr	13.0	43.4 *	64.5 *	54.4	54.4	95
Curtis & Curtis Seed, Inc.	X4 Wheat	W	26-Apr	13.5	40.3	60.8	54.9	56.4	103
Watley Seed	WS V	T	26-Apr	14.2 *	40.3	60.6	60.1	58.4 *	117
Watley Seed	SlickTrit	T	26-Apr	11.4	44.1 *	65.0 *	55.0	53.7	93
Watley Seed	SlickTrit II	T	23-Apr	11.3	45.6 *	65.7 *	57.5	51.2	90
Ehmke Seed	Thunder Tall	T	30-Apr	11.0	45.8 *	67.0 *	56.3	53.4	91
Watley Seed	WS IV	T	30-Apr	11.2	45.3 *	66.6 *	56.3	53.6	92
Ehmke Seed	Thunder Cale V	T	19-Apr	15.7 *	34.3	54.3	68.1 *	65.3 ***	151 ***
Curtis & Curtis Seed, Inc.	Smoothgrazer	W/T	26-Apr	14.6 *	38.6	58.5	58.5	58.7 *	117
Curtis & Curtis Seed, Inc.	Maximizer	W/T	26-Apr	12.1	43.9 *	63.9 *	57.4	54.4	100
Watley Seed	WS VI	T	16-Apr	15.0 *	37.9	58.6	68.4 *	61.4 *	135 *
Curtis & Curtis Seed, Inc.	Eldorado	W	26-Apr	14.1 *	40.0	60.0	59.9	57.9	115
Eastern Colorado Seeds	ECS - Blend	B	16-Apr	15.5 *	38.0	57.7	70.1 *	60.4 *	137 *
Watley Seed	WS VIII	T	16-Apr	16.2 *	37.4	58.0	67.2 *	60.1 *	131 *
Watley Seed	WS VII	T	16-Apr	16.3 *	37.6	58.2	67.1 *	59.4 *	129 *
Eastern Colorado Seeds	Verdant	B	16-Apr	15.4 *	38.2	58.3	70.2 *	60.8 *	138 *
Eastern Colorado Seeds	Fridge	T	16-Apr	16.3 *	36.4	57.5	69.4 *	62.9 *	141 *
Eastern Colorado Seeds	Forerunner	T	16-Apr	16.3 *	36.5	57.2	69.3 *	63.1 *	142 *
Eastern Colorado Seeds	Epic Trit. Blend	T	16-Apr	16.9 ***	36.2	57.2	70.3 ***	62.2 *	142 *
Scott Seed Co.	TAM 304	W	16-Apr	16.1 *	35.5	55.2	68.9 *	61.4 *	142 *
Eastern Colorado Seeds	Hoody	B	16-Apr	15.9 *	39.0	59.9	68.8 *	61.0 *	133 *
	Trial Mean			13.8	40.6	61.2	61.6	57.5	116
	LSD (0.05)			3.3	5.9	7.0	6.0	7.2	31
	CV			14.6	8.9	6.9	6.0	7.6	16.4
	F Test			<0.0001	0.0001	0.0016	<0.0001	0.0009	<0.0001

[†]B=barley; T=triticale; W=wheat

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