

Table 1. Winter Annual Small Grain Forages, 2008-2009, Agricultural Science Center at Clovis

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Test Description

| Location: | | Management Practices: | | | Growing Conditions: | | | |
|----------------------|-----------|--|-----------|-----------|----------------------------|----------|------------|------|
| County/Area: | Curry | Previous Crop: | fallow | | Average | | | |
| Longitude: | -103.22 | Planting Date: | 30-Oct | | Temp. | Precip. | Irrigation | |
| Latitude: | 34.60 | <i>Forage Harvest - Single harvest per plot</i> | | | °F | in. | in. | |
| Elevation: | 4435 ft. | Harvest Dates: 24-Apr to 7-May | | | | | | |
| Soil Name: | Olton | (Mechanically harvested all of each plot based on stage of maturity. Clipping height was 1 to 2 in.) | | | October | 56.5 | 4.51 | 0.00 |
| Soil Texture: | clay loam | Production Inputs | | | November | 47.0 | 0.11 | 0.60 |
| Soil Depth: | >60 in. | | Rate | Date | December | 38.0 | 0.03 | 1.00 |
| | | | lb/ac | | January | 38.6 | 0.00 | 0.00 |
| Test Design: | | Fertilizer: | | | February | 44.2 | 0.27 | 0.65 |
| Replications | 3 | Nitrogen | 30 | Carryover | March | 48.2 | 0.35 | 1.75 |
| Plot Length: | 10 ft. | Nitrogen | 40 | 28-Oct | April | 53.7 | 0.83 | 4.75 |
| Plot Width: | 6.73 ft. | Nitrogen | 40 | 19-Feb | May [†] | 61.0 | 0.02 | 0.85 |
| Rows per Plot: | 11 | Nitrogen | 35 | 12-Mar | †May 1-7 | | | |
| Drill Row Spacing: | 6.25 in. | P ₂ O ₅ | 40 | 28-Oct | Seasonal Precipitation | 6.12 in. | | |
| | | S | 7 | 19-Feb | Total Irrigation | 9.60 in. | | |
| Seeding Rate: | | Herbicides: | | | | | | |
| All Entries: | 100 lb/a | Lo-Vol 6 | 0.5 pt/ac | 19-Feb | | | | |
| | | Affinity | 0.6 oz/ac | 19-Feb | | | | |
| | | Insecticides: | | | | | | |
| | | Lorsban | 1 pt/ac | 19-Feb | | | | |

Table 2. Forage Harvest - Winter Annual Small Grain Forages - 2008-2009 Various Dates - NMSU Agricultural Science Center at Clovis

| Company Name | Variety Name | Species [†] | Harvest Date | Dry | Green | Moisture | Milk/ | Milk/ | RFQ |
|------------------------------|-----------------|----------------------|--------------|---------|----------|----------|----------|-----------|---------|
| | | | | Forage | Forage | at | Ton | Acre | |
| | | | | T/ac | T/ac | % | lb/ton | lb/ac | |
| Watley Seed Co. | Slick Trit | T | 7-May | 5.1 *** | 23.0 *** | 77.9 | 3046 | 15499 *** | 140 |
| Curtis & Curtis, Inc. | X3 | T | 7-May | 4.7 * | 21.6 * | 78.3 | 3111 | 14544 * | 144 |
| Resource Seeds, Inc. | RSI Expt 4818 | T | 7-May | 4.7 * | 21.2 * | 77.8 | 3103 | 14611 * | 141 |
| Curtis & Curtis, Inc. | Smoothgrazer B | W/T | 7-May | 4.5 | 20.7 | 78.1 | 3123 | 14190 * | 146 |
| Curtis & Curtis, Inc. | X2 | T | 7-May | 4.5 | 21.9 * | 79.7 * | 3145 | 14014 * | 148 |
| Curtis & Curtis, Inc. | Maximizer B | W/T | 7-May | 4.4 | 19.6 | 77.7 | 3066 | 13381 | 140 |
| Resource Seeds, Inc. | RSI Expt 4865 | T | 4-May | 4.4 | 20.5 | 78.5 | 3187 | 14017 * | 153 |
| Resource Seeds, Inc. | RSI Expt 718 | T | 4-May | 4.1 | 20.0 | 79.2 * | 3204 | 13258 | 152 |
| Agricultural Development Co. | Elite | T | 4-May | 4.1 | 20.2 | 79.8 * | 3342 | 13627 | 164 |
| Curtis & Curtis, Inc. | Maximizer A | W/T | 4-May | 3.9 | 17.2 | 77.6 | 3217 | 12507 | 154 |
| Resource Seeds, Inc. | RSI Expt 131 | T | 4-May | 3.9 | 18.5 | 78.9 | 3285 | 12803 | 158 |
| AgriPro | Longhorn | W | 4-May | 3.7 | 15.4 | 76.2 | 3259 | 11963 | 160 |
| Curtis & Curtis, Inc. | Smoothgrazer A | W/T | 4-May | 3.7 | 16.1 | 77.1 | 3222 | 11928 | 156 |
| Eastern Colorado Seeds | 2270 EX | T | 30-Apr | 3.7 | 18.1 | 79.5 * | 3480 * | 12878 | 177 |
| Eastern Colorado Seeds | Groupe (A) | T | 30-Apr | 3.7 | 18.6 | 80.4 * | 3408 | 12448 | 175 |
| Eastern Colorado Seeds | Forerunner | T | 30-Apr | 3.7 | 18.7 | 80.1 * | 3471 * | 13000 | 184 * |
| Watley Seed Co. | Presto | T | 30-Apr | 3.4 | 16.6 | 79.2 * | 3327 | 11452 | 165 |
| Watley Seed Co. | Eldorado | W | 4-May | 3.3 | 14.9 | 77.8 | 3350 | 11107 | 170 |
| Eastern Colorado Seeds | 2260 EX | T | 30-Apr | 3.3 | 17.2 | 80.9 *** | 3503 * | 11531 | 182 |
| Watley Seed Co. | TAM 112 | W | 27-Apr | 3.1 | 12.7 | 75.5 | 3598 * | 11241 | 200 *** |
| Agricultural Development Co. | MFR-08 | T | 30-Apr | 3.1 | 16.1 | 80.7 * | 3447 * | 10618 | 175 |
| Watley Seed Co. | Deliver | W | 30-Apr | 3.0 | 13.2 | 77.5 | 3393 | 10058 | 178 |
| Montana State Univ. | Willow Creek WW | W | 7-May | 2.8 | 12.9 | 77.9 | 3231 | 9175 | 156 |
| Paramount Seed Farms | P-919 Barley | B | 24-Apr | 2.7 | 14.1 | 80.5 * | 3620 *** | 9951 | 196 * |
| Trial Mean | | | | 3.8 | 17.9 | 78.6 | 3297 | 12491 | 163 |
| LSD (0.05) | | | | 0.5 | 2.1 | 1.8 | 197 | 1827 | 16 |
| CV | | | | 7.4 | 7.2 | 1.4 | 3.6 | 8.9 | 6.1 |
| F Test | | | | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |

[†]B=barley; T=triticale; W=wheat

All 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 - 2008-2009 Various Dates - NMSU Agricultural Science Center at Clovis

| Company Name | Variety Name | Species [†] | Harvest Date | CP | ADF | NDF | dNDF | Non-Fiber | TDN | NE ₁ |
|------------------------------|-----------------|----------------------|--------------|----------|----------|----------|----------|-----------|----------|-----------------|
| | | | | % of DM | % of DM | % of DM | % of NDF | % of DM | % of DM | Mcals/lb |
| Watley Seed Co. | Slick Trit | T | 7-May | 14.2 | 34.4 * | 54.5 * | 62.3 | 22.8 | 64.0 | 0.66 |
| Curtis & Curtis, Inc. | X3 | T | 7-May | 14.9 | 33.2 * | 53.7 * | 62.6 | 23.4 | 64.9 | 0.67 |
| Resource Seeds, Inc. | RSI Expt 4818 | T | 7-May | 13.6 | 34.3 * | 54.9 *** | 62.8 | 23.6 | 64.7 | 0.67 |
| Curtis & Curtis, Inc. | Smoothgrazer B | W/T | 7-May | 14.9 | 33.0 * | 52.8 * | 62.8 | 23.8 | 65.0 | 0.67 |
| Curtis & Curtis, Inc. | X2 | T | 7-May | 15.3 | 33.9 * | 53.1 * | 64.1 | 22.5 | 65.2 | 0.67 |
| Curtis & Curtis, Inc. | Maximizer B | W/T | 7-May | 14.4 | 34.5 *** | 54.6 * | 62.2 | 22.8 | 64.3 | 0.66 |
| Resource Seeds, Inc. | RSI Expt 4865 | T | 4-May | 15.5 | 32.3 | 51.7 | 64.3 | 23.8 | 65.7 | 0.67 |
| Resource Seeds, Inc. | RSI Expt 718 | T | 4-May | 14.7 | 32.9 * | 52.7 * | 65.0 | 23.9 | 65.9 | 0.68 |
| Agricultural Development Co. | Elite | T | 4-May | 16.2 | 31.1 | 50.3 | 66.4 | 24.9 | 67.7 | 0.70 * |
| Curtis & Curtis, Inc. | Maximizer A | W/T | 4-May | 15.8 | 31.6 | 51.7 | 63.9 | 24.7 | 66.2 | 0.68 |
| Resource Seeds, Inc. | RSI Expt 131 | T | 4-May | 15.4 | 31.4 | 51.3 | 64.8 | 25.5 | 67.1 | 0.69 |
| AgriPro | Longhorn | W | 4-May | 16.3 * | 31.0 | 50.5 | 66.4 | 23.9 | 66.5 | 0.68 |
| Curtis & Curtis, Inc. | Smoothgrazer A | W/T | 4-May | 15.1 | 31.1 | 50.7 | 64.3 | 25.3 | 66.2 | 0.68 |
| Eastern Colorado Seeds | 2270 EX | T | 30-Apr | 16.3 * | 29.5 | 48.2 | 68.6 * | 26.4 | 69.4 * | 0.71 * |
| Eastern Colorado Seeds | Groupe (A) | T | 30-Apr | 17.3 * | 30.0 | 47.9 | 68.6 * | 24.9 | 68.4 | 0.71 * |
| Eastern Colorado Seeds | Forerunner | T | 30-Apr | 18.1 *** | 28.7 | 46.8 | 70.2 * | 25.4 | 69.1 * | 0.71 * |
| Watley Seed Co. | Presto | T | 30-Apr | 16.2 | 31.4 | 50.3 | 67.1 | 24.5 | 67.4 | 0.69 |
| Watley Seed Co. | Eldorado | W | 4-May | 17.8 * | 29.2 | 48.1 | 66.5 | 25.1 | 67.8 | 0.70 * |
| Eastern Colorado Seeds | 2260 EX | T | 30-Apr | 18.0 * | 29.8 | 47.1 | 69.0 * | 25.8 | 69.7 * | 0.72 * |
| Watley Seed Co. | TAM 112 | W | 27-Apr | 16.7 * | 25.3 | 43.1 | 69.8 * | 30.4 *** | 70.9 * | 0.73 * |
| Agricultural Development Co. | MFR-08 | T | 30-Apr | 17.1 * | 30.3 | 48.3 | 67.7 | 25.9 | 69.0 * | 0.71 * |
| Watley Seed Co. | Deliver | W | 30-Apr | 17.2 * | 27.8 | 46.2 | 67.0 | 27.1 | 68.3 | 0.70 * |
| Montana State Univ. | Willow Creek WW | W | 7-May | 16.2 | 31.9 | 52.5 * | 67.2 | 21.3 | 66.1 | 0.68 |
| Paramount Seed Farms | P-919 Barley | B | 24-Apr | 17.2 * | 27.5 | 45.3 | 71.4 *** | 28.2 * | 71.0 *** | 0.73 *** |
| | Trial Mean | | | 16.0 | 31.1 | 50.3 | 66.0 | 24.8 | 67.1 | 0.69 |
| | LSD (0.05) | | | 1.8 | 2.0 | 2.4 | 2.9 | 2.3 | 2.5 | 0.03 |
| | CV | | | 7.0 | 3.9 | 2.9 | 2.7 | 5.6 | 2.3 | 2.5 |
| | F Test | | | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |

[†]B=barley; T=triticale; W=wheat

All 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.

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