**Table 1. Winter Annual Small Grain Forages, 2007-2008, Agricultural Science Center at Clovis**

**Investigators:** M.A. Marsalis, R.E. Kirksey, A. Scott, N. Pryor, B. Niece

**Test Description**

**Location:**

| | |
|---|---|
| County/Area: | Curry |
| Longitude: | -103.22 |
| Latitude: | 34.60 |
| Elevation: | 4435 ft. |
| Soil Name: | Olton |
| Soil Texture: | clay loam |
| Soil Depth: | >60 in. |

**Test Design:**

| | |
|---|---|
| Replications | 3 |
| Plot Length: | 10 ft. |
| Plot Width: | 6.73 ft. |
| Rows per Plot: | 11 |
| Drill Row Spacing: | 6.25 in. |

**Seeding Rate:**

| | |
|---|---|
| SlickTrit: | 100 lb/a |
| SlickTrit: | 120 lb/a |
| All Other Entries: | 100 lb/a |

**Management Practices:**

Previous Crop: fallow

Planting Date: 25-Oct

*Forage Harvest - Single harvest per plot*

Harvest Dates: 25-Apr to 9-May

(Mechanically harvested all of each plot based on stage of maturity. Clipping height was 1 to 2 in.)

Production Inputs

| | Rate lb/ac | Date |
|---|---|---|
| Fertilizer: | | |
| Nitrogen | 23 | Carryover |
| Nitrogen | 60 | 9-Oct |
| Nitrogen | 45 | 29-Feb |
| Nitrogen | 45 | 24-Mar |
| $P_2O_5$ | 60 | 9-Oct |
| S | 7 | 9-Oct |
| Herbicides: | | |
| Lo-Vol 6 | 1 pt/ac | 21-Mar |
| Instecticides: | | |
| Lorsban | 1 pt/ac | 22-Mar |

**Growing Conditions:**

| | Average Temp. °F | Precip. in. | Irrigation in. |
|---|---|---|---|
| October | 60.5 | 0.00 | 1.70 |
| November | 46.5 | 0.12 | 1.05 |
| December | 38.0 | 0.66 | 0.75 |
| January | 34.3 | 0.00 | 0.00 |
| February | 41.2 | 0.20 | 0.70 |
| March | 46.9 | 0.10 | 3.05 |
| April | 53.7 | 0.73 | 5.75 |
| May† | 58.5 | 1.07 | 2.00 |

†May 1-9

| | |
|---|---|
| Seasonal Precipitation | 2.88 in. |
| Total Irrigation | 15.00 in. |

**Table 2. Forage Harvest - Winter Annual Small Grain Forages - 2007-2008 Various Dates - NMSU Agricultural Science Center at Clovis**

| Company Name | Variety Name | Species† | Harvest Date | Green Forage | Dry Forage | Moisture at Harvest | Milk/ Ton | Milk/ Acre | N removal | RFQ |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | T/ac | T/ac | % | lb/ton | lb/ac | lb N/ac | |
| Watley Enterprises, Inc. | Slick Trit (100 lb/ac) | T | 9-May | 24.5 *** | 5.1 *** | 79.2 * | 3139 | 16016 *** | 227 * | 144 |
| Curtis & Curtis, Inc. | X2 | T | 9-May | 24.2 * | 4.8 * | 80.1 * | 3201 | 15401 * | 224 * | 151 |
| Curtis & Curtis, Inc. | X3 | T | 9-May | 23.2 * | 4.8 * | 79.5 * | 3335 | 15846 * | 229 * | 159 |
| Watley Enterprises, Inc. | Slick Trit (120 lb/ac) | T | 9-May | 22.2 * | 4.7 * | 78.6 | 3210 | 15265 * | 218 * | 151 |
| Agricultural Develop. Co. | Elite | T | 5-May | 22.1 * | 4.7 * | 78.7 * | 3395 | 15966 * | 231 *** | 164 |
| Curtis & Curtis, Inc. | Maximizer B | W/T | 9-May | 22.0 * | 4.6 * | 79.0 * | 3271 | 15078 * | 224 * | 155 |
| Resource Seeds, Inc. | 202718att | T | 5-May | 21.1 | 4.6 * | 78.4 | 3374 | 15400 * | 229 * | 164 |
| Warner Seed, Inc. | Triplecale | T | 5-May | 20.9 | 4.3 | 79.2 * | 3467 | 15043 * | 220 * | 173 |
| Warner Seed, Inc. | Pounds Plus B | T/W/O | 5-May | 18.4 | 4.3 | 76.8 | 3454 | 14772 * | 221 * | 174 |
| Resource Seeds, Inc. | 04TF113 | T | 28-Apr | 21.1 | 4.1 | 80.6 * | 3528 | 14410 * | 215 * | 179 |
| Resource Seeds, Inc. | 202765am | T | 1-May | 19.7 | 4.0 | 79.6 * | 3293 | 13192 | 203 * | 164 |
| Curtis & Curtis, Inc. | Maximizer A | W/T | 5-May | 18.5 | 4.0 | 78.3 | 3441 | 13733 | 219 * | 179 |
| AgriPro | Tamcale 5019 | T | 25-Apr | 18.5 | 3.7 | 79.9 * | 3628 | 13516 | 201 * | 187 |
| Curtis & Curtis, Inc. | X1 | T | 25-Apr | 18.9 | 3.7 | 80.2 * | 3721 * | 13886 | 207 * | 200 |
| Resource Seeds, Inc. | 05TG191a | T | 28-Apr | 18.5 | 3.5 | 80.9 *** | 3899 * | 13752 | 199 | 221 * |
| Scott Seed Co. | Champion III | W | 28-Apr | 13.6 | 3.5 | 74.3 | 3918 *** | 13688 | 190 | 235 *** |
| Curtis & Curtis, Inc. | Smoothgrazer | W/T | 28-Apr | 15.5 | 3.3 | 78.6 | 3705 * | 12238 | 177 | 199 |
| Watley Enterprises, Inc. | TAM 112 | W | 25-Apr | 14.6 | 3.1 | 78.6 | 3878 * | 12008 | 168 | 220 * |
| | Trial Mean | | 2-May | 19.9 | 4.2 | 78.9 | 3492 | 14400 | 211 | 179 |
| | LSD (0.05) | | | 3.1 | 0.7 | 2.3 | 222 | 1899 | 31 | 19 |
| | CV | | | 9.3 | 9.4 | 1.7 | 3.8 | 7.9 | 8.8 | 6.5 |
| | F Test | | | <0.0001 | <0.0001 | 0.0007 | <0.0001 | 0.0012 | 0.0036 | <0.0001 |

†O=oat; R=rye; 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 - 2007-2008 Various Dates - NMSU Agricultural Science Center at Clovis**

| Company Name | Variety Name | Species[†] | Harvest Date | CP | ADF | NDF | dNDF Dig. 48h | Non-Fiber Carb. | TDN | $NE_l$ |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | % of DM | % of DM | % of DM | % of NDF | % of DM | % of DM | Mcals/lb |
| Watley Enterprises, Inc. | Slick Trit (100 lb/ac) | T | 9-May | 13.9 | 34.8 *** | 55.4 *** | 65.3 | 21.9 | 65.0 | 0.67 |
| Curtis & Curtis, Inc. | X2 | T | 9-May | 14.7 | 34.7 * | 54.4 * | 67.0 | 21.3 | 65.7 | 0.68 |
| Curtis & Curtis, Inc. | X3 | T | 9-May | 15.0 | 32.9 * | 53.2 * | 68.3 | 22.9 | 67.4 | 0.69 |
| Watley Enterprises, Inc. | Slick Trit (120 lb/ac) | T | 9-May | 14.3 | 33.5 * | 54.1 * | 66.5 | 22.3 | 65.8 | 0.68 |
| Agricultural Develop. Co. | Elite | T | 5-May | 15.3 | 31.4 | 51.9 | 68.6 | 23.8 | 68.2 | 0.70 |
| Curtis & Curtis, Inc. | Maximizer B | W/T | 9-May | 15.1 | 33.3 * | 53.4 * | 67.0 | 22.7 | 66.6 | 0.69 |
| Resource Seeds, Inc. | 202718att | T | 5-May | 15.7 | 32.2 | 51.9 | 68.8 | 23.3 | 67.9 | 0.70 |
| Warner Seed, Inc. | Triplecale | T | 5-May | 15.9 * | 30.3 | 50.0 | 69.8 | 25.0 | 69.1 | 0.71 |
| Warner Seed, Inc. | Pounds Plus B | T/W/O | 5-May | 16.2 * | 29.5 | 49.6 | 69.6 | 25.1 | 68.9 | 0.71 |
| Resource Seeds, Inc. | 04TF113 | T | 28-Apr | 16.4 * | 31.4 | 50.6 | 73.2 | 23.4 | 69.6 | 0.72 |
| Resource Seeds, Inc. | 202765am | T | 1-May | 15.7 | 31.8 | 50.8 | 68.9 | 22.8 | 66.7 | 0.69 |
| Curtis & Curtis, Inc. | Maximizer A | W/T | 5-May | 17.1 * | 29.8 | 48.4 | 71.2 | 23.5 | 68.5 | 0.71 |
| AgriPro | Tamcale 5019 | T | 25-Apr | 16.9 * | 29.0 | 48.5 | 72.7 | 26.1 | 71.0 | 0.73 |
| Curtis & Curtis, Inc. | X1 | T | 25-Apr | 17.4 * | 28.7 | 47.0 | 76.5 | 25.7 | 71.9 * | 0.74 |
| Resource Seeds, Inc. | 05TG191a | T | 28-Apr | 17.6 *** | 25.9 | 44.2 | 79.4 * | 28.8 * | 74.1 * | 0.77 *** |
| Scott Seed Co. | Champion III | W | 28-Apr | 17.1 * | 23.8 | 41.6 | 81.3 *** | 30.0 *** | 74.2 *** | 0.77 *** |
| Curtis & Curtis, Inc. | Smoothgrazer | W/T | 28-Apr | 16.8 * | 28.5 | 47.1 | 76.5 | 26.0 | 71.7 * | 0.74 |
| Watley Enterprises, Inc. | TAM 112 | W | 25-Apr | 16.8 * | 26.2 | 44.1 | 78.5 * | 29.3 * | 73.9 * | 0.77 *** |
| | Trial Mean | | 2-May | 16.0 | 30.4 | 49.8 | 71.6 | 24.7 | 69.2 | 0.71 |
| | LSD (0.05) | | | 1.7 | 2.5 | 3.1 | 3.2 | 2.6 | 2.8 | 0.03 |
| | CV | | | 6.6 | 5.0 | 3.7 | 2.7 | 6.3 | 2.5 | 2.7 |
| | F Test | | | 0.0016 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |

[†]O=oat; R=rye; 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.