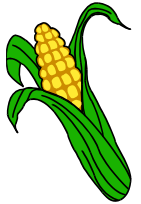




OKLAHOMA CORN PERFORMANCE TRIALS, 2012



PRODUCTION TECHNOLOGY CROPS

OKLAHOMA COOPERATIVE EXTENSION SERVICE
DEPARTMENT OF PLANT AND SOIL SCIENCES
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TRIAL OBJECTIVES AND PROCEDURES

Each year the Oklahoma Cooperative Extension Service conducts corn performance trials in Oklahoma. These trials provide producers, extension educators, industry representatives, and researchers with information on corn hybrids marketed in Oklahoma. Company participation was voluntary, so some hybrids marketed in Oklahoma were not included in the test. Company or brand name, entry designation, plant characteristics, maturity information, and trial locations were provided by the companies and were not validated by OSU; therefore, we strongly recommend consulting company representatives for more detailed information regarding these traits and disease resistance ratings (Table 1).

Irrigated test plots were established at the Oklahoma Panhandle Research and Extension Center (OPREC) near Goodwell and the Joe Webb farm near Guymon. Three rainfed trials were planted in north central Oklahoma near Burlington, Enid, and Ponca City. Fertility levels, herbicide use, and soil series (when available) are listed with data. Individual plots were two 25-foot rows seeded at a target population also listed with the data. Plots were trimmed to 20 feet prior to being harvested to determine grain yield. A separate ensilage trial was planted with 10 feet of one row harvested to determine yield. Experimental design for all locations was a randomized complete block with four replications. Grain yield is reported consistent with U.S. No. 1 grade corn (56 lbs/bu and adjusted to moisture content of 15.5%). Corn ensilage was harvested at later than optimum in 2012 with an average moisture content of 45.6% and production is reported as tons/ac adjusted to 65% moisture.

GROWING CONDITIONS

Drought affected corn state-wide. Adequate soil moisture was available at planting for all locations (Fig. 1). Planting started in early March in the body of the state with short delays due to precipitation. In the panhandle planting started early April and continued with short interruptions due to precipitation until completed. Minimal pre-irrigation was required for irrigated corn in the panhandle for emergence due to rainfall from September 2011 until planting. Temperatures during the growing season were at or above long-term means, but were not as hot as in 2011. In the panhandle no day was like June 26, 2011, when for most of the high plains temperatures were above 110 degree F°

Highlights

Drought affected corn yield in all of the state. Test weights were light for rainfed sites in north central Oklahoma. Irrigated corn yield with lower well volumes was also reduced. The Ponca City location was harvested but yields were from 12 to 33 bu/ac and not reported here. Yields for the Enid and Joe Webb location were exceptional for the climate conditions of 2012

with wind speeds above 30 mph. In 2011 most of the damage and reduced yields to irrigated corn happened on this day. Irrigation well volume again was a critical factor for the yields in the region. Higher volume wells again had the highest yields, although unlike 2011 there were no complete failures in 2012. For the rainfed trials in north central Oklahoma, lack of precipitation limited yields at all locations, but the Ponca City location was the most severely affected. The trial at Ponca City was harvested but is not reported here. The trial received no precipitation during the months of May and June. Yields for the Trial at Burlington were affected by two hailstorms one in May and another

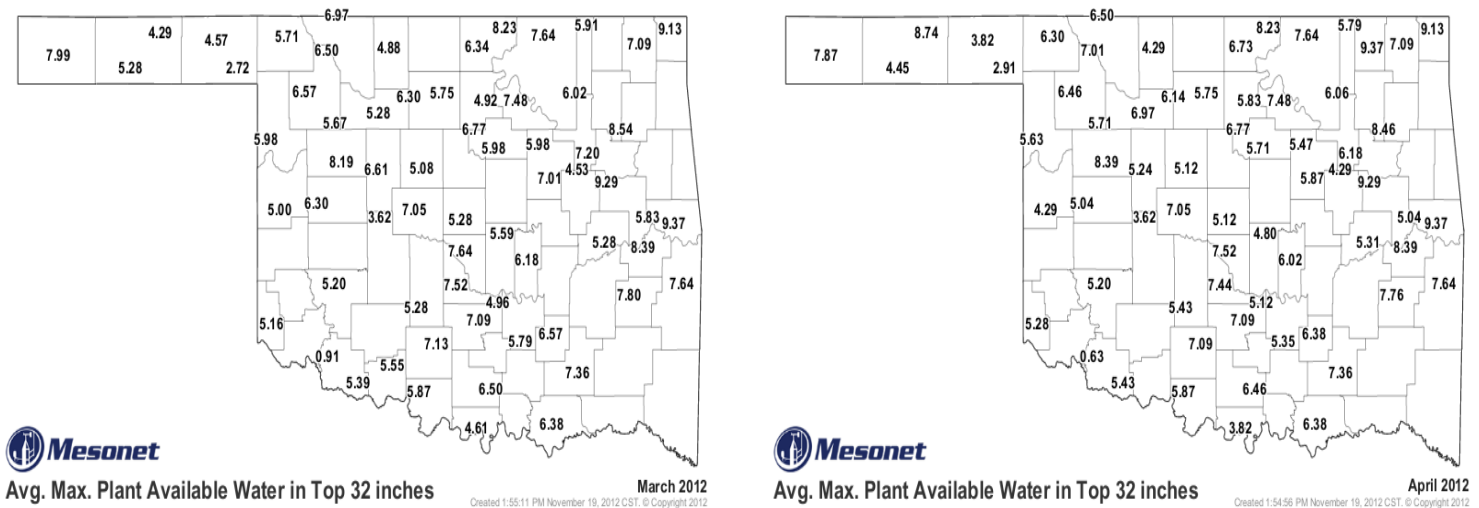
in June. Due to lack of precipitation in late June and July, test weights were severely affected at all north central locations as seen in result tables. With the lower test weights, some producers were not able to market their grain. Limited water and irrigation well problems reduced the yields of the trials at OPREC in 2012. Due to greater well volume, higher yields were obtained at the Joe Webb location (circle with approximately 5.75 gal/min/ac) compared to OPREC (approximately 4.5 gal/min/ac).

RESULTS

Grain yield, test weight, harvest moisture, and plant populations for are presented in tables 2 - 6. Least Significant Differences (L.S.D.) are shown at the bottom of each table. Unless two entries differ by at least the L.S.D. shown, little confidence can be placed in one being superior to another. The coefficient of variation (C.V.) is provided as an estimate of the precision of the data with respect to the mean. To provide some indication of yield stability, 2-year means are also provided in tables. Producers interested in comparing hybrids for consistency of yield should consult these.

The following people have contributed to this report by assisting in crop production, data collection, and publication; Roger Gribble, Jeff Bedwell, Tommy Puffinbarger, Donna George, Lawrence Bohl, Jake Baker, Cori Woelk, Cameron Murley, and Craig Chesnut. Their efforts are greatly appreciated.

Figure 1. Average inches of plant available water in Oklahoma for March and April 2012.



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Table 1. Characteristics of Corn Hybrids in Oklahoma Corn Performance Trials, 2012.

| Company Brand Name | Hybrid | Plant Characteristics | | | | Maturity Days | Trial Locations |
|-----------------------|------------------|-----------------------|----|----|----|------------------|--------------------|
| | | SV | SS | SG | EP | | |
| Terral Seed, Inc | Rev™ 21HR33™ | NA | NA | NA | NA | 115 | All |
| Terral Seed, Inc | Rev™ 22BHR43™ | NA | NA | NA | NA | 115 | All |
| Terral Seed, Inc | Rev™ 28HR20™ | 7 | 7 | 7 | MH | 118 | All |
| Terral Seed, Inc | Rev™ 23RE73™ | NA | NA | NA | NA | 116 | All |
| Terral Seed, Inc | Rev® 28R10™ | 7 | 7 | 7 | MH | 118 | All |
| Terral Seed, Inc | Rev® 25BHR63™ | NA | NA | NA | NA | 116 | All |
| Terral Seed, Inc | Rev® 26HR50™ | 3 | 3 | 3 | MH | 116 | All |
| Terral Seed, Inc | Rev® 27HR52™ | NA | NA | NA | NA | 117 | All |
| Terral Seed, Inc | Rev® 26HR23™ | NA | NA | NA | NA | 116 | All |
| Terral Seed, Inc | Rev® 27HR83™ | NA | NA | NA | NA | 117 | All |
| Terral Seed, Inc | Rev® 29HR13™ | NA | NA | NA | NA | 119 | All |
| Terral Seed, Inc | Rev® 24BHR93™ | NA | NA | NA | NA | 114 | All |
| Terral Seed, Inc | Rev® 26R60™ | 7 | 6 | 7 | M | 116 | All |
| Triumph Seed Co. Inc. | 1217S | 2 | 3 | 3 | M | 112 | All |
| Triumph Seed Co. Inc. | 1157X | 2 | 4 | 3 | M | 111 | All |
| Triumph Seed Co. Inc. | 1725H | 3 | 2 | 2 | MH | 117 | Pan. Only |
| Triumph Seed Co. Inc. | 7514S | 3 | 3 | 3 | M | 114 | Pan. Only |
| Triumph Seed Co. Inc. | 1801H | 2 | 2 | 2 | H | 118 | Pan. Only |
| Triumph Seed Co. Inc. | TRX21366H | 3 | 3 | 3 | M | 113 | Pan. Only |
| Triumph Seed Co. Inc. | 1358H | 2 | 3 | 2 | H | 113 | Pan. Only |
| Triumph Seed Co. Inc. | 1329H | 3 | 3 | 3 | M | 113 | Pan. Only |
| Triumph Seed Co. Inc. | 2288H | 3 | 2 | 1 | H | 122 | Pan. Only |
| CPS Dyna-Gro | D43QV30 | 1 | 2 | 2 | M | 103 | NC only |
| CPS Dyna-Gro | D48VP93 | 3 | 3 | 4 | M | 108 | NC only |
| CPS Dyna-Gro | D49VC59 | 2 | 2 | 4 | M | 109 | NC only |
| CPS Dyna-Gro | D54VP81 | 3 | 3 | 2 | M | 114 | NC only |
| Hoegemeyer | 7644 Hx/LL/RR | 5 | 5 | 4 | M | 106 | All |
| Hoegemeyer | 7876 Hx/LL/RR/CB | 5 | 4 | 5 | M | 108 | All |
| Hoegemeyer | 7422 Rw/LL/GT/CB | 3 | 4 | 3 | M | 104 | All |
| Hoegemeyer | 8389 HXT/LL/RR | 5 | 4 | 3 | H | 113 | All |
| Hoegemeyer | 8122 HX/LL/RR | 5 | 4 | 3 | M | 110 | All |

* Plant Characteristics: SV - Seedling Vigor; SS - stalk strength; SG - stay green; EP - ear placement (Low, Medium, High)
Rating scale for above characteristics except ear placement 1 = excellent - 9 = poor

Trial locations: All; all trial locations, Pan.only; Panhandle trials only; NC only; North Central locations only

Table 3. Grain Yield and Harvest Parameters for the Alfalfa county location (Burlington), Oklahoma Corn Performance Trials, 2012.

| Company Brand Name | Hybrid | Maturity | Grain Yield bu/ac | Test Weight lb/bu | Harvest Moisture | Plant Population plants/ac |
|-----------------------|---|----------|-------------------|-------------------|------------------|----------------------------|
| Hoegemeyer | 7644 Hx/LL/RR | 106 | 55 | 47.2 | 10.6 | 26,100 |
| CPS Dyna-Gro | D48VP93 | 108 | 52 | 47.0 | 6.5 | 27,700 |
| CPS Dyna-Gro | D49VC59 | 109 | 48 | 47.8 | 6.7 | 22,700 |
| CPS Dyna-Gro | D54VP81 | 114 | 48 | 48.8 | 10.2 | 26,200 |
| Hoegemeyer | 7876 Hx/LL/RR/CB | 108 | 48 | 48.7 | 8.9 | 24,800 |
| Triumph Seed Co. Inc. | 1157X | 111 | 45 | 47.2 | 6.9 | 25,400 |
| CPS Dyna-Gro | D43QV30 | 103 | 45 | 46.7 | 8.7 | 23,600 |
| Terral Seed, Inc | Rev TM 22BHR43 TM | 115 | 44 | 51.2 | 11.5 | 25,200 |
| Hoegemeyer | 7422 Rw/LL/GT/CB | 104 | 39 | 47.4 | 8.3 | 19,900 |
| Terral Seed, Inc | Rev TM 21HR33 TM | 115 | 34 | 48.0 | 8.7 | 24,900 |
| Terral Seed, Inc | Rev [®] 25BHR63 TM | 116 | 31 | 48.7 | 10.9 | 25,200 |
| Triumph Seed Co. Inc. | 1217S | 112 | 31 | 45.6 | 9.4 | 24,200 |
| Hoegemeyer | 8389 HXT/LL/RR | 113 | 31 | 50.9 | 18.1 | 25,800 |
| Terral Seed, Inc | Rev [®] 26R60 TM | 116 | 30 | 46.9 | 13.4 | 26,100 |
| Terral Seed, Inc | Rev [®] 24BHR93 TM | 114 | 29 | 48.9 | 21.8 | 23,300 |
| Hoegemeyer | 8122 HX/LL/RR | 110 | 29 | 48.7 | 14.4 | 26,100 |
| Terral Seed, Inc | Rev [®] 27HR52 TM | 117 | 27 | 47.5 | 16.4 | 25,300 |
| Terral Seed, Inc | Rev [®] 26HR50 TM | 116 | 24 | 45.1 | 17.4 | 24,700 |
| Terral Seed, Inc | Rev [®] 27HR83 TM | 117 | 24 | 50.3 | 15.0 | 23,000 |
| Terral Seed, Inc | Rev [®] 26HR23 TM | 116 | 21 | 46.9 | 19.6 | 28,300 |
| Terral Seed, Inc | Rev TM 28HR20 TM | 118 | 20 | 49.0 | 19.7 | 27,400 |
| Terral Seed, Inc | Rev [®] 28R10 TM | 118 | 20 | 47.9 | 22.3 | 30,700 |
| Terral Seed, Inc | Rev [®] 29HR13 TM | 119 | 18 | 46.4 | 7.3 | 25,200 |
| | | Mean | 34.4 | 48.0 | 12.7 | 25,300 |
| | | CV % | 24.9 | 2.2 | 20.6 | 9.1 |
| | | L.S.D. | 12 | 1.5 | 3.7 | 3,200 |

Cooperator: Schupbach Farms

Soil Series: Pond Creek Silt Loam

No-till: Following soybean in 2011

Soil Test: N: 91 P: 139 K: 831 pH: 6.0

Fertilizer: N: 44 lbs/ac, P: 0, K: 0, 5 gal 10-34-0 in row with planter

Herbicide: 2 qt/ac Cinch ATZ Lite (Preemergence)

Target population: 25,000 plants/ac

Planting Date: March 30, 2012

Harvest Date: July 31, 2012

| Monthly Rainfall (in.) | Apr. | May | June | July | Total |
|------------------------|------|------|------|------|--------------|
| 2012: | 2.88 | 0.96 | 2.18 | 0.65 | 6.67 |
| Long term mean: | 2.99 | 4.79 | 3.83 | 2.23 | 13.81 |

Table 3. Grain Yield and Harvest Parameters for the Grant/Garfield county location (Enid), Oklahoma Corn Performance Trials, 2012.

| Company Brand Name | Hybrid | Maturity | Grain Yield bu/ac | Test Weight lb/bu | Harvest Moisture | Plant Population plants/ac |
|-----------------------|---|----------|-------------------|-------------------|------------------|----------------------------|
| CPS Dyna-Gro | D54VP81 | 114 | 103 | 51.6 | 7.3 | 26,500 |
| Triumph Seed Co. Inc. | 1217S | 112 | 101 | 48.8 | 6.1 | 27,600 |
| CPS Dyna-Gro | D43QV30 | 103 | 100 | 48.8 | 6.3 | 28,200 |
| Hoegemeyer | 7422 Rw/LL/GT/CB | 104 | 100 | 49.5 | 6.5 | 24,300 |
| Terral Seed, Inc | Rev TM 22BHR43 TM | 115 | 98 | 53.6 | 8.3 | 25,400 |
| Triumph Seed Co. Inc. | 1157X | 111 | 98 | 48.5 | 6.3 | 27,300 |
| CPS Dyna-Gro | D49VC59 | 109 | 98 | 50.4 | 7.2 | 28,900 |
| Terral Seed, Inc | Rev TM 21HR33 TM | 115 | 95 | 49.6 | 6.1 | 26,400 |
| Hoegemeyer | 7876 Hx/LL/RR/CB | 108 | 94 | 51.5 | 7.0 | 24,300 |
| CPS Dyna-Gro | D48VP93 | 108 | 93 | 50.2 | 6.7 | 28,400 |
| Hoegemeyer | 7644 Hx/LL/RR | 106 | 92 | 49.7 | 6.6 | 27,100 |
| Terral Seed, Inc | Rev [®] 26R60 TM | 116 | 91 | 49.9 | 12.3 | 26,700 |
| Hoegemeyer | 8389 HXT/LL/RR | 113 | 89 | 52.8 | 12.0 | 24,700 |
| Terral Seed, Inc | Rev [®] 25BHR63 TM | 116 | 82 | 51.1 | 7.9 | 24,600 |
| Terral Seed, Inc | Rev [®] 26HR23 TM | 116 | 82 | 53.1 | 13.3 | 28,500 |
| Terral Seed, Inc | Rev [®] 27HR83 TM | 117 | 82 | 51.0 | 8.6 | 26,200 |
| Terral Seed, Inc | Rev [®] 24BHR93 TM | 114 | 81 | 50.9 | 10.2 | 26,900 |
| Terral Seed, Inc | Rev [®] 26HR50 TM | 116 | 80 | 51.2 | 12.1 | 26,100 |
| Hoegemeyer | 8122 HX/LL/RR | 110 | 80 | 51.3 | 8.3 | 24,900 |
| Terral Seed, Inc | Rev [®] 28R10 TM | 118 | 78 | 52.0 | 11.2 | 30,300 |
| Terral Seed, Inc | Rev [®] 29HR13 TM | 119 | 78 | 49.8 | 9.3 | 25,800 |
| Terral Seed, Inc | Rev TM 28HR20 TM | 118 | 74 | 51.7 | 11.9 | 28,100 |
| Terral Seed, Inc | Rev [®] 27HR52 TM | 117 | 73 | 47.6 | 8.8 | 25,900 |
| | | Mean | 89 | 50.6 | 8.7 | 26,700 |
| | | CV % | 13.5 | 2.2 | 26.3 | 8.7 |
| | | L.S.D. | 17 | 1.6 | 3.2 | 3,300 |

Cooperator: Ed Regier

Soil Series: Dale Silt Loam

Strip-Till: Following soybean in 2011

Soil Test: N: 13 P: 58 K: 492 pH: 7.5

Fertilizer: N: 130 lbs/ac, P: 50 lbs P2O5/ac, K: 0, 5 gal 10-34-0 in row with planter

Herbicide: 2 qt/ac Cinch ATZ Lite (Preemergence) +

Target population: 25,000 plants/ac

Planting Date: March 30, 2012

Harvest Date: July 31, 2012

| Monthly Rainfall (in.) | Apr. | May | June | July | Total |
|------------------------|------|------|------|------|--------------|
| 2012: | 7.06 | 0.36 | 3.40 | 0.13 | 6.67 |
| Long term mean: | 2.99 | 4.86 | 4.26 | 2.89 | 15.00 |

Table 4. Grain Yield and Harvest Parameters for the Joe Webb location, Oklahoma Corn Performance Trials, 2012.

| Company Brand Name | Hybrid | Grain Yield bu/ac | Test Weight lb/bu | Harvest Moisture | Plant Population plants/ac |
|-----------------------|------------------|-------------------|-------------------|------------------|----------------------------|
| Triumph Seed Co. Inc. | 1358H | 288 | 51.5 | 17.3 | 35,000 |
| Terral Seed, Inc | Rev® 26HR23™ | 270 | 60.1 | 15.5 | 35,300 |
| Triumph Seed Co. Inc. | 1801H | 264 | 53.5 | 18.8 | 32,900 |
| Triumph Seed Co. Inc. | 1725H | 263 | 54.1 | 18.2 | 33,700 |
| Terral Seed, Inc | Rev® 27HR83™ | 262 | 59.5 | 16.2 | 32,900 |
| Terral Seed, Inc | Rev™ 28HR20™ | 260 | 59.0 | 17.1 | 34,500 |
| Hoegemeyer | 8389 HXT/LL/RR | 259 | 59.7 | 16.9 | 36,400 |
| Hoegemeyer | 8122 HX/LL/RR | 259 | 59.3 | 16.5 | 33,000 |
| Terral Seed, Inc | Rev™ 23RE73™ | 256 | 60.4 | 16.0 | 34,400 |
| Terral Seed, Inc | Rev® 24BHR93™ | 253 | 58.9 | 15.3 | 35,400 |
| Terral Seed, Inc | Rev® 25BHR63™ | 250 | 59.8 | 16.7 | 32,900 |
| Terral Seed, Inc | Rev® 29HR13™ | 248 | 58.5 | 16.3 | 34,300 |
| Triumph Seed Co. Inc. | 1329H | 246 | 54.7 | 16.4 | 32,000 |
| Terral Seed, Inc | Rev™ 22BHR43™ | 243 | 61.1 | 15.2 | 32,300 |
| Terral Seed, Inc | Rev™ 21HR33™ | 240 | 58.8 | 15.1 | 32,700 |
| Triumph Seed Co. Inc. | 7514S | 240 | 56.6 | 17.3 | 34,500 |
| Terral Seed, Inc | Rev® 26R60™ | 240 | 59.1 | 15.8 | 33,000 |
| Triumph Seed Co. Inc. | 2288H | 239 | 56.0 | 21.5 | 32,800 |
| Terral Seed, Inc | Rev® 27HR52™ | 233 | 57.0 | 17.1 | 33,800 |
| Triumph Seed Co. Inc. | 1217S | 233 | 57.8 | 15.2 | 32,100 |
| Triumph Seed Co. Inc. | TRX21366H | 229 | 57.1 | 16.2 | 31,100 |
| Terral Seed, Inc | Rev® 26HR50™ | 220 | 59.3 | 17.4 | 31,800 |
| Hoegemeyer | 7644 Hx/LL/RR | 212 | 59.3 | 13.2 | 34,700 |
| Triumph Seed Co. Inc. | 1157X | 209 | 56.5 | 14.9 | 27,400 |
| Hoegemeyer | 7876 Hx/LL/RR/CB | 207 | 60.1 | 13.8 | 31,300 |
| Terral Seed, Inc | Rev® 28R10™ | 204 | 59.5 | 16.1 | 29,800 |
| Hoegemeyer | 7422 Rw/LL/GT/CB | 163 | 57.8 | 12.3 | 28,400 |
| | Mean | 240 | 58.0 | 16.2 | 32,900 |
| | CV % | 9.9 | 0.9 | 4.2 | 8.2 |
| | L.S.D. | 34 | 0.8 | 1.0 | 3,800 |

Cooperator: Joe Webb

Soil Series: Pullman Clay Loam

Strip-Till: Following corn in 2011

Soil Test: N: NA P: NA K: NA pH: NA

Fertilizer: N: 225 lbs/ac, P: 40 lbs P2O5/ac, K: 0, 5 gal 10-34-0 in row with planter

Herbicide: 5 oz/ac Balance Flex + 24 oz Traxion + 1 oz Distinct (Preemergence) and 28 oz RT3 + 2 oz Distinct POST

Target population: 28,000 plants/ac for grain and 32,000 plants/ac for ensilage

Planting Date: April 23, 2012

Harvest Date: September 19, 2012

Monthly Rainfall (in.)

| | Apr. | May | June | July | Aug | Total |
|-----------------|------|------|------|------|------|--------------|
| 2012: | 2.28 | 0.88 | 2.33 | 1.95 | 0.85 | 8.29 |
| Long term mean: | 1.33 | 3.25 | 2.86 | 2.58 | 2.28 | 12.30 |
| Irrigation: | 1.50 | 3.00 | 9.00 | 9.00 | 3.00 | |

Table 5. Grain Yield and Harvest Parameters for the OPREC location, Oklahoma Corn Performance Trials, 2012.

| Company Brand Name | Hybrid | Grain Yield bu/ac | Test Weight lb/bu | Harvest Moisture | Plant Population plants/ac |
|-----------------------|---------------------------------------|-------------------|-------------------|------------------|----------------------------|
| Triumph Seed Co. Inc. | 1217S | 145 | 56.9 | 11.1 | 24,600 |
| Terral Seed, Inc | Rev [®] 24BHR93 [™] | 142 | 57.9 | 12.0 | 26,700 |
| Terral Seed, Inc | Rev [®] 27HR83 [™] | 141 | 59.5 | 14.4 | 27,900 |
| Hoegemeyer | 7644 Hx/LL/RR | 138 | 57.3 | 11.4 | 28,300 |
| Terral Seed, Inc | Rev [™] 22BHR43 [™] | 137 | 60.4 | 14.0 | 27,000 |
| Terral Seed, Inc | Rev [®] 26HR50 [™] | 137 | 58.0 | 16.0 | 25,400 |
| Terral Seed, Inc | Rev [®] 27HR52 [™] | 126 | 55.9 | 11.9 | 29,400 |
| Triumph Seed Co. Inc. | 1157X | 126 | 54.6 | 11.8 | 24,900 |
| Hoegemeyer | 7876 Hx/LL/RR/CB | 125 | 57.1 | 10.8 | 28,900 |
| Triumph Seed Co. Inc. | TRX21366H | 121 | 54.6 | 11.6 | 24,400 |
| Triumph Seed Co. Inc. | 1358H | 121 | 53.2 | 13.6 | 27,400 |
| Terral Seed, Inc | Rev [®] 25BHR63 [™] | 118 | 59.2 | 12.6 | 30,700 |
| Terral Seed, Inc | Rev [™] 23RE73 [™] | 111 | 58.6 | 14.0 | 26,800 |
| Hoegemeyer | 8122 HX/LL/RR | 111 | 58.7 | 13.5 | 27,900 |
| Terral Seed, Inc | Rev [®] 28R10 [™] | 110 | 57.5 | 13.4 | 27,000 |
| Terral Seed, Inc | Rev [™] 21HR33 [™] | 109 | 57.3 | 11.1 | 28,600 |
| Hoegemeyer | 8389 HXT/LL/RR | 109 | 59.9 | 12.7 | 26,100 |
| Triumph Seed Co. Inc. | 1725H | 108 | 55.7 | 14.6 | 29,200 |
| Terral Seed, Inc | Rev [®] 29HR13 [™] | 103 | 56.9 | 15.9 | 28,900 |
| Terral Seed, Inc | Rev [®] 26R60 [™] | 101 | 56.1 | 10.8 | 27,400 |
| Terral Seed, Inc | Rev [®] 26HR23 [™] | 99 | 59.2 | 14.2 | 28,400 |
| Triumph Seed Co. Inc. | 7514S | 99 | 55.7 | 13.5 | 28,400 |
| Triumph Seed Co. Inc. | 2288H | 99 | 56.5 | 19.6 | 25,200 |
| Terral Seed, Inc | Rev [™] 28HR20 [™] | 96 | 56.8 | 12.8 | 29,100 |
| Hoegemeyer | 7422 Rw/LL/GT/CB | 96 | 55.3 | 10.6 | 26,400 |
| Triumph Seed Co. Inc. | 1329H | 94 | 55.1 | 12.3 | 29,500 |
| Triumph Seed Co. Inc. | 1801H | 88 | 54.7 | 15.2 | 27,900 |
| | Mean | 115 | 57.0 | 13.2 | 27,500 |
| | CV % | 16.6 | 1.7 | 10.3 | 9 |
| | L.S.D. | 27 | 1.4 | 1.9 | NS |

Cooperator: OPREC
 Strip-Till: Following wheat double crop sunflower in 2011
 Fertilizer: N: 200 lbs/ac, P: 40 lbs P2O5/ac, K: 0, 5 gal 10-34-0 in row with planter
 Herbicide: 2.0qt/ac Cinch ATZ Lite (Preemergence) + 1 oz/ac Balance pro
 Target population: 28,000 plants/ac for grain and 32,000 plants/ac for ensilage
 Planting Date: April 18, 2012
 Harvest Date: Grain September 10, 2012,

| | | | | | | |
|------------------------|------|------|------|------|------|--------------|
| Monthly Rainfall (in.) | Apr. | May | June | July | Aug | Total |
| 2012: | 2.28 | 0.88 | 2.33 | 1.95 | 0.85 | 8.29 |
| Long term mean: | 1.33 | 3.25 | 2.86 | 2.58 | 2.28 | 12.30 |
| Irrigation: | 1.25 | 1.25 | 5.00 | 6.25 | 1.25 | |

Soil Series: Gruver Clay Loam (formally Richfield)
 Soil Test: N: NA P: NA K: NA pH: NA

Table 6. OPREC Ensilage Yields for Panhandle Corn Performance Trial, 2011.

| Company Brand Name | Hybrid | YIELD Tons/ac | | Plant Population plants/ac | Harvest Moisture % |
|-----------------------|------------------|------------------|----------|----------------------------------|--------------------------|
| | | 2012 | two-year | | |
| Triumph Seed Co. Inc. | 1157X | 23.8 | 22.2 | 24,800 | 48.1 |
| Triumph Seed Co. Inc. | 2288H | 23.5 | 20.9 | 28,300 | 60.1 |
| Terral Seed, Inc | Rev™ 28HR20™ | 19.7 | 19.9 | 32,100 | 36.9 |
| Triumph Seed Co. Inc. | 1217S | 19.1 | 19.3 | 27,200 | 48.9 |
| Triumph Seed Co. Inc. | 1725H | 20.1 | 18.4 | 28,900 | 52.9 |
| Triumph Seed Co. Inc. | 7514S | 19.7 | 18.3 | 30,200 | 47.4 |
| Terral Seed, Inc | Rev® 28R10™ | 19.3 | 18.0 | 29,800 | 42.8 |
| Terral Seed, Inc | Rev® 27HR52™ | 19.6 | 18.0 | 31,800 | 44.5 |
| Terral Seed, Inc | Rev® 26R60™ | 19.3 | 18.0 | 30,600 | 41.3 |
| Terral Seed, Inc | Rev® 26HR50™ | 18.0 | 17.0 | 29,800 | 48.1 |
| Hoegemeyer | 7876 Hx/LL/RR/CB | 25.4 | ---- | 31,800 | 42.3 |
| Hoegemeyer | 7644 Hx/LL/RR | 21.6 | ---- | 29,600 | 36.4 |
| Terral Seed, Inc | Rev™ 22BHR43™ | 21.2 | ---- | 33,000 | 49.9 |
| Triumph Seed Co. Inc. | TRX21366H | 21.0 | ---- | 31,100 | 46.5 |
| Terral Seed, Inc | Rev® 24BHR93™ | 20.4 | ---- | 27,400 | 46.1 |
| Hoegemeyer | 8389 HXT/LL/RR | 20.0 | ---- | 31,100 | 49.0 |
| Triumph Seed Co. Inc. | 1329H | 19.9 | ---- | 31,400 | 45.8 |
| Hoegemeyer | 8122 HX/LL/RR | 19.7 | ---- | 31,700 | 54.6 |
| Terral Seed, Inc | Rev™ 23RE73™ | 19.6 | ---- | 30,600 | 47.1 |
| Triumph Seed Co. Inc. | 1358H | 19.6 | ---- | 29,600 | 47.9 |
| Terral Seed, Inc | Rev® 26HR23™ | 19.5 | ---- | 31,800 | 46.3 |
| Triumph Seed Co. Inc. | 1801H | 19.5 | ---- | 28,900 | 43.6 |
| Terral Seed, Inc | Rev® 25BHR63™ | 19.2 | ---- | 27,900 | 40.0 |
| Terral Seed, Inc | Rev® 29HR13™ | 19.0 | ---- | 33,300 | 47.7 |
| Hoegemeyer | 7422 Rw/LL/GT/CB | 17.9 | ---- | 29,200 | 42.7 |
| Terral Seed, Inc | Rev® 27HR83™ | 17.6 | ---- | 33,800 | 45.6 |
| Terral Seed, Inc | Rev™ 21HR33™ | 16.0 | ---- | 27,700 | 28.0 |
| | Mean | 20.0 | 19.0 | 30,100 | 45.6 |
| | CV % | 14.3 | 11.8 | 13 | 12.9 |
| | L.S.D. | 4.7 | 2.6 | NS | 0.1 |

Cooperator: OPREC

Soil Series: Gruver Clay Loam (formally Richfield)

Strip-Till: Following wheat double crop sunflower in 2011

Soil Test: N: NA P: NA K: NA pH: NA

Fertilizer: N: 200 lbs/ac, P: 40 lbs P2O5/ac, K: 0, 5 gal 10-34-0 in row with planter

Herbicide: 2.0qt/ac Cinch ATZ Lite (Preemergence) + 1 oz/ac Balance pro

Target population: 28,000 plants/ac for grain and 32,000 plants/ac for ensilage

Planting Date: April 18, 2012

Harvest Date: August 23, 2012

Monthly Rainfall (in.)

| | Apr. | May | June | July | Aug | Total |
|-----------------|------|------|------|------|------|--------------|
| 2012: | 2.28 | 0.88 | 2.33 | 1.95 | 0.85 | 8.29 |
| Long term mean: | 1.33 | 3.25 | 2.86 | 2.58 | 2.28 | 12.30 |
| Irrigation: | 1.25 | 1.25 | 5.00 | 6.25 | 1.25 | |