



Department of Soil and Crop Sciences

# Greenville 2017 Corn Performance Trial



| Brand        | Hybrid    | GE Trait(s)            | Days to 50%<br>Silk | Plant Height<br>(in) | Ear Height<br>(in) | Plants per<br>Acre | Moisture<br>% | Test Weight<br>(lb/bu) | Yield<br>(bu/acre) |
|--------------|-----------|------------------------|---------------------|----------------------|--------------------|--------------------|---------------|------------------------|--------------------|
| Dyna-Gro     | D56VP46   | Genuity VT Triple PRO  | 71                  | 90                   | 34                 | 23,784             | 13.5          | 57.3                   | 206                |
| Dyna-Gro     | D57VP51   | Genuity VT Triple PRO  | 72                  | 88                   | 32                 | 23,174             | 14.2          | 58.3                   | 201                |
| REV          | 25LPR26   | Leptra                 | 72                  | 93                   | 35                 | 23,697             | 13.6          | 58.5                   | 198                |
| DEKALB       | DKC 62-08 | Genuity SmartStax      | 71                  | 87                   | 35                 | 23,784             | 14.1          | 58.7                   | 198                |
| REV          | 23LPR55   | Leptra                 | 73                  | 94                   | 33                 | 23,261             | 13.8          | 56.7                   | 198                |
| Integra      | 6533      | N/A                    | 70                  | 89                   | 34                 | 22,913             | 14.3          | 59.1                   | 195                |
| REV          | 26LPR50   | Leptra                 | 73                  | 94                   | 30                 | 23,435             | 15.2          | 60.9                   | 193                |
| Golden Acres | G6708     | Genuity VT Double PRO  | 72                  | 91                   | 32                 | 22,825             | 15.0          | 58.4                   | 190                |
| REV          | 28BHR18   | Optimum Intrasect      | 73                  | 96                   | 35                 | 20,735             | 15.1          | 58.5                   | 187                |
| NuTech       | 5F015     | Optimum AcreMax (AM-R) | 73                  | 94                   | 30                 | 23,697             | 14.3          | 59.7                   | 184                |
| Pioneer      | P1395     | Optimum Intrasect      | 71                  | 92                   | 32                 | 23,958             | 14.4          | 58.8                   | 183                |
| Integra      | 6647      | N/A                    | 71                  | 89                   | 35                 | 22,825             | 13.9          | 58.4                   | 182                |
| Integra      | 9678      | Genuity VT Triple PRO  | 70                  | 86                   | 31                 | 23,784             | 14.7          | 58.5                   | 181                |
| Golden Acres | 5788      | Genuity VT Double PRO  | 70                  | 88                   | 32                 | 22,216             | 15.1          | 60.5                   | 181                |
| Golden Acres | G6611     | Genuity VT Triple PRO  | 71                  | 87                   | 30                 | 22,738             | 14.2          | 58.2                   | 180                |
| NuTech       | 5H216     | Herculex 1 (HX1)       | 73                  | 95                   | 33                 | 22,128             | 15.7          | 59.0                   | 177                |
| Golden Acres | G7893     | Agrisure Viptera 3111  | 70                  | 90                   | 33                 | 21,606             | 13.9          | 57.3                   | 174                |
| NuTech       | 5V217     | Agrisure Viptera 3111  | 70                  | 95                   | 29                 | 23,522             | 14.8          | 59.3                   | 172                |
| NuTech       | 5F113     | Optimum AcreMax (AM-R) | 70                  | 93                   | 33                 | 23,784             | 14.4          | 60.0                   | 171                |
| NuTech       | 5F713     | Optimum AcreMax (AM-R) | 72                  | 95                   | 33                 | 23,348             | 13.4          | 57.0                   | 171                |
| Integra      | 6400      | N/A                    | 71                  | 91                   | 34                 | 23,348             | 14.6          | 57.3                   | 171                |

\*Yields highlighted in yellow are not significantly different (L.S.D., p=0.05) from the top ranked hybrid.



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|-----------------------------|------------|------------------------|---------------------|----------------------|--------------------|--------------------|---------------|------------------------|--------------------|
| Integra                     | 6474       | Genuity VT Double PRO  | 69                  | 91                   | 33                 | 23,348             | 13.9          | 57.6                   | 170                |
| Dyna-Gro                    | 58SS65     | Genuity SmartStax      | 72                  | 87                   | 29                 | 21,344             | 14.3          | 59.5                   | 170                |
| Dyna-Gro                    | D54VC52    | Genuity VT Double PRO  | 70                  | 91                   | 30                 | 21,606             | 14.3          | 59.6                   | 165                |
| NuTech                      | 5F709      | Optimum AcreMax (AM-R) | 70                  | 89                   | 30                 | 23,871             | 14.1          | 57.3                   | 158                |
| Texas A&M AgriLife Research | TST2/TX777 | RR2                    | 74                  | 99                   | 41                 | 18,382             | 14.5          | 59.5                   | 150                |
| Texas A&M AgriLife Research | TST2/TX779 | RR2                    | 77                  | 95                   | 38                 | 18,557             | 15.4          | 61.3                   | 144                |
| Texas A&M AgriLife Research | TST4/TX777 | N/A                    | 74                  | 94                   | 37                 | 17,947             | 14.7          | 59.0                   | 140                |
| Integra                     | 6273       | N/A                    | 68                  | 87                   | 29                 | 23,087             | 13.9          | 58.3                   | 130                |

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|--------------------------------------|-----------|--------------------|---------------------|----------------------|--------------------|--------------------|---------------|------------------------|--------------------|-------|
| <b>Agronomic information</b>         |           |                    | Mean                | 71                   | 91                 | 33                 | 22,507        | 14.4                   | 58.7               | 177   |
| Plant Date                           | 3/23/2017 |                    | C.V. %              | 2.0                  | 3.2                | 7.9                | 5.7           | 6.8                    | 1.2                | 8.2   |
| Harvest Date                         | 9/4/2017  |                    | P>f (hybrid)        | 0.000                | 0.000              | 0.000              | 0.000         | 0.146                  | 0.000              | 0.000 |
| Irrigated                            | No        |                    | L.S.D.              | 2.0                  | 4.1                | 3.6                | 1,822.3       |                        | 1.0                | 20.4  |
| Row Spacing (in)                     | 30        | <b>Trial Notes</b> |                     |                      |                    |                    |               |                        |                    |       |
| Number of Rows                       | 2         |                    |                     |                      |                    |                    |               |                        |                    |       |
| Seeds per Acre                       | 24,000    |                    |                     |                      |                    |                    |               |                        |                    |       |
| N (lb/ac)                            | 150       |                    |                     |                      |                    |                    |               |                        |                    |       |
| P2O5 (lb/ac)                         |           |                    |                     |                      |                    |                    |               |                        |                    |       |
| K2O (lb/ac)                          |           |                    |                     |                      |                    |                    |               |                        |                    |       |
| Precipitation (in)                   | 41.7      |                    |                     |                      |                    |                    |               |                        |                    |       |
| Irrigation (in)                      |           |                    |                     |                      |                    |                    |               |                        |                    |       |
| Herbicide                            |           |                    |                     |                      |                    |                    |               |                        |                    |       |
| 1 qt Atrazine applied after planting |           | Soil Type          |                     |                      |                    |                    |               |                        |                    |       |
|                                      |           | Tillage            |                     |                      |                    |                    |               |                        |                    |       |
|                                      |           | Previous Crop      |                     |                      |                    |                    |               |                        |                    |       |
|                                      |           |                    |                     |                      |                    |                    |               |                        |                    |       |
|                                      |           |                    |                     |                      |                    |                    |               |                        |                    |       |

 Cooperator Texas A&M AgriLife Research

Four replications of each hybrid are planted in a randomized block design. Model : yield = hybrid blk. LSD provided when hybrid significant at  $p < 0.05$ . Yields highlighted in yellow are not statistically different from the top ranked hybrid. Plots were planted using Almaco meter units on a JD Max-Emerge II units. Plots were harvested with a JD 3300 plot combine fitted with a Harvest Master GrainGage System. Precipitation data was recorded from January 1 through the harvest date.

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