TEXAS A&M UNIVERSITY
Soil & Crop Sciences

# Hondo
# 2021 Corn
# Performance Trial

TEXAS A&M AGRILIFE

| Brand | Hybrid | GE Trait(s) | Days to 50% Silk | Plant Height (in) | Ear Height (in) | Plants per Acre | Moisture % | Test Weight (lb/bu) | Yield (bu/acre) |
|---|---|---|---|---|---|---|---|---|---|
| Pioneer | P1847 | Leptra | 75 | 82 | 27 | 26,862 | 15.6 | 61.8 | 178 |
| Integra | CX001117 | Genuity Trecepta | 72 | 81 | 29 | 22,688 | 14.9 | 59.7 | 136 |
| Dyna-Gro | D57TC29 | Genuity Trecepta | 72 | 80 | 28 | 18,695 | 14.2 | 59.8 | 134 |
| Integra | 6695 | Genuity Trecepta | 71 | 75 | 28 | 23,414 | 14.5 | 61.0 | 134 |
| Dyna-Gro | D58SS65 | Genuity SmartStax | 74 | 71 | 26 | 22,325 | 16.5 | 61.1 | 131 |
| Dyna-Gro | D54SS34 | Genuity SmartStax | 74 | 78 | 30 | 21,236 | 14.3 | 59.4 | 130 |
| Progeny | EXP115 | Genuity Trecepta | 71 | 80 | 29 | 21,599 | 14.7 | 60.9 | 126 |
| Integra | 6811 | Genuity VT Double PRO | 74 | 74 | 28 | 19,421 | 17.2 | 62.2 | 124 |
| Dyna-Gro | D54VC14 | Genuity VT Double PRO | 69 | 76 | 26 | 20,328 | 14.6 | 59.7 | 121 |
| Integra | 6410 | SmartStax | 72 | 74 | 26 | 17,969 | 13.7 | 60.7 | 119 |
| Progeny | EXP116 | N/A | 74 | 75 | 28 | 19,058 | 15.4 | 60.7 | 113 |
| LG Seeds | 66C32 | Genuity VT Double PRO | 75 | 71 | 28 | 17,424 | 14.8 | 61.4 | 110 |
| Progeny | PGY2118 | Genuity VT Double PRO | 74 | 74 | 27 | 19,602 | 17.9 | 61.6 | 110 |
| DEKALB | DKC 69-99 | Genuity Trecepta | 74 | 75 | 29 | 16,880 | 15.9 | 61.6 | 106 |
| Integra | 6720 | Genuity DG VT Double PRO | 74 | 76 | 30 | 22,325 | 14.9 | 62.1 | 105 |
| Integra | 6540 | Genuity Trecepta | 68 | 74 | 30 | 18,332 | 13.5 | 60.0 | 102 |
| Integra | 6533 | Genuity VT Double PRO | 73 | 74 | 27 | 17,787 | 14.5 | 60.1 | 101 |
| Progeny | PGY8116VT2P | Genuity DG VT Double PRO | 73 | 74 | 31 | 18,695 | 15.4 | 61.6 | 100 |
| Dyna-Gro | D53TC19 | Genuity Trecepta | 69 | 73 | 29 | 17,061 | 14.1 | 60.0 | 99 |
| Integra | 6641 | SmartStax | 72 | 73 | 26 | 17,424 | 14.3 | 59.8 | 98 |
| Progeny | PGY9117 | Genuity VT Double PRO | 72 | 76 | 29 | 17,243 | 14.2 | 61.5 | 97 |

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

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|---|---|---|---|---|---|---|---|---|---|
| Dyna-Gro | D58VC22 | Genuity VT Double PRO | 71 | 78 | 29 | 15,972 | 14.1 | 61.6 | 97 |
| Integra | 6342 | Genuity Trecepta | 71 | 74 | 30 | 12,887 | 14.5 | 60.0 | 94 |
| LG Seeds | 66C44 | Genuity VT Double PRO | 73 | 76 | 29 | 20,691 | 15.1 | 61.2 | 94 |
| Progeny | PGY8116SSX | SmartStax | 74 | 73 | 29 | 15,791 | 15.5 | 62.6 | 94 |
| Dyna-Gro | D57VC51 | Genuity VT Double PRO | 74 | 76 | 27 | 13,613 | 14.5 | 60.6 | 87 |
| Integra | 6621 | Genuity DG VT Double PRO | 70 | 76 | 31 | 13,794 | 13.6 | 59.6 | 79 |
| LG Seeds | 64C30 | Genuity Trecepta | 71 | 72 | 27 | 13,976 | 14.8 | 60.3 | 58 |
| Progeny | PGY2015 | Genuity VT Double PRO | 73 | 72 | 28 | 8,712 | 13.9 | 60.3 | 44 |

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| Brand | Hybrid | GE Trait(s) | Days to 50% Silk | Plant Height (in) | Ear Height (in) | Plants per Acre | Moisture % | Test Weight (lb/bu) | Yield (bu/acre) |
|---|---|---|---|---|---|---|---|---|---|
| | Mean | | 72 | 75 | 28 | 18,338 | 14.8 | 60.8 | 108 |
| | C.V. % | | 1.5 | 3.0 | 7.7 | 19.6 | 5.8 | 1.2 | 13.4 |
| | P>f (hybrid) | | 0.000 | 0.000 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 |
| | L.S.D. | | 1.5 | | | 5,045.7 | 1.2 | 1.1 | 20.3 |

## Agronomic information

| | |
|---|---|
| Plant Date | 3/8/2021 |
| Harvest Date | 8/10/2021 |
| Irrigated | Yes |
| Row Spacing (in) | 36 |
| Number of Rows | 2 |
| Seeds per Acre | 30,000 |
| Precipitation (in) | 21.3 |
| Irrigation (in) | 9 |

Herbicide

1 lb/ac Atrazine + 1.25 pt/ac Resicore + 32 oz/ac Roundup at V4.

| | |
|---|---|
| Soil Type | Knippa clay |
| Tillage | Conventional |
| Previous Crop | Cotton |

## Trial Notes

*On 4/28 a storm caused significant hail damage resulting in stand reductions
*On 5/10 a secondary storm with high winds and ~4" of rain led to lodging; resulting in further stand reduction and poor plant health

*At R2 6 oz/ac Aproach + 4 oz/ac Tebuconizole applied as fungicide. 4 oz/ac Oberon applied as insecticide.

* Mehlich 3 by ICP, soiltesting.tamu.edu
** Samples collected at planting, some locations may have applied fertilizer

Cooperator Nelson Reus

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 a SRES Advanced planter with Monosem 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.

For additional information contact:
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## Fertilizer Applied

| | |
|---|---|
| N (lb/ac) | 180 |
| P2O5 (lb/ac) | 60 |
| K2O (lb/ac) | 5 |
| S (lb/ac) | 3 |
| Zn (lb/ac) | 0 |

## Soil Analysis Report**

| | | | |
|---|---|---|---|
| NO3-N (ppm) | 61 | pH | 7.6 |
| P (ppm)* | 27 | Conductivity (umho/cm) | 528 |
| K (ppm)* | 741 | Ca (ppm)* | 17,162 |
| S (ppm)* | 17 | Mg (ppm)* | 369 |
| | | Na (ppm)* | 25 |

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