TEXAS A&M UNIVERSITY
Soil & Crop Sciences

# Dumas
# 2024 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) |
|---|---|---|---|---|---|---|---|---|---|
| Croplan | CP5760TRE | Genuity Trecepta | 67 | 104 | 41 | 32,897 | 19.6 | 57.9 | 278 |
| DEKALB | DKC 70-45VT2 | Genuity VT Double PRO | 69 | 102 | 43 | 30,052 | 20.8 | 59.1 | 275 |
| Integra | 6493VT2P | Genuity VT Double PRO | 68 | 99 | 43 | 30,716 | 16.8 | 60.4 | 272 |
| Croplan | CP5363TRE | Genuity Trecepta | 69 | 103 | 43 | 31,654 | 18.1 | 59.0 | 272 |
| DEKALB | DKC 114-99 | VT4PRO with RNAi | 69 | 104 | 48 | 30,599 | 17.4 | 60.3 | 271 |
| Integra | 6915TRE | Genuity Trecepta | 69 | 107 | 48 | 32,644 | 20.8 | 57.5 | 270 |
| Dyna-Gro | D57TC29 | Genuity Trecepta | 68 | 104 | 39 | 31,604 | 19.9 | 57.8 | 269 |
| Integra | 6342TRE | Genuity Trecepta | 67 | 100 | 42 | 30,928 | 16.2 | 59.7 | 269 |
| Dyna-Gro | D60TC45 | Genuity Trecepta | 69 | 106 | 50 | 31,460 | 19.9 | 58.2 | 268 |
| DEKALB | DKC 68-35VT2 | Genuity VT Double PRO | 68 | 107 | 46 | 31,000 | 18.6 | 60.9 | 266 |
| Integra | 6244PCE | Powercore | 68 | 103 | 41 | 31,394 | 16.6 | 59.0 | 266 |
| DEKALB | DKC 113-83 | Genuity Trecepta | 69 | 102 | 43 | 32,331 | 16.3 | 60.1 | 266 |
| Dyna-Gro | D56TC44 | Genuity Trecepta | 68 | 102 | 43 | 31,625 | 18.4 | 58.9 | 266 |
| Integra | 6624TRE | Genuity Trecepta | 68 | 102 | 39 | 30,492 | 17.8 | 59.5 | 263 |
| DEKALB | DKC 69-99TRE | Genuity Trecepta | 68 | 106 | 46 | 30,079 | 20.2 | 59.7 | 260 |
| DEKALB | DKC 66-06TRE | Genuity Trecepta | 69 | 105 | 43 | 30,347 | 19.0 | 59.9 | 257 |
| Dyna-Gro | D58TC94 | Genuity Trecepta | 70 | 105 | 46 | 31,000 | 20.8 | 59.1 | 255 |
| DEKALB | DKC 117-78 | Genuity VT Double PRO | 69 | 101 | 46 | 28,314 | 17.6 | 60.4 | 245 |
| Croplan | CP5682TRE | Genuity Trecepta | 69 | 104 | 47 | 33,686 | 19.0 | 58.3 | 245 |
| Integra | 6864R | RR2 | 67 | 100 | 42 | 30,637 | 18.0 | 59.7 | 244 |
| Integra | 6641SS | SmartStax | 69 | 99 | 43 | 30,815 | 20.7 | 57.6 | 243 |

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

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|---|---|---|---|---|---|---|---|---|---|
| | Mean | | 68 | 103 | 44 | 31,156 | 18.7 | 59.2 | 263 |
| | C.V. % | | 1.4 | 3.1 | 6.0 | 3.1 | 3.6 | 0.8 | 5.0 |
| | P>f (hybrid) | | 0.001 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 0.004 |
| | L.S.D. | | 1.4 | 4.7 | 3.8 | 1,428.1 | 1.0 | 0.7 | 19.2 |

## Agronomic information

| | |
|---|---|
| Plant Date | 5/2/2024 |
| Harvest Date | 9/20/2024 |
| Irrigated | Yes |
| Row Spacing (in) | 30 |
| Number of Rows | 2 |
| Target Seeds per Acre | 32,000 |
| Precipitation (in) | 10.32 |
| Irrigation (in) | |
| Herbicide | |
| Soil Type | Sherm silty clay loam |
| Tillage | Strip-till |
| Previous Crop | Wheat |

## Trial Notes

Cooperator: Lone Star Family Farms

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 planting date through the harvest date.

For additional information contact:
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979-845-2935 / 979-845-8505

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

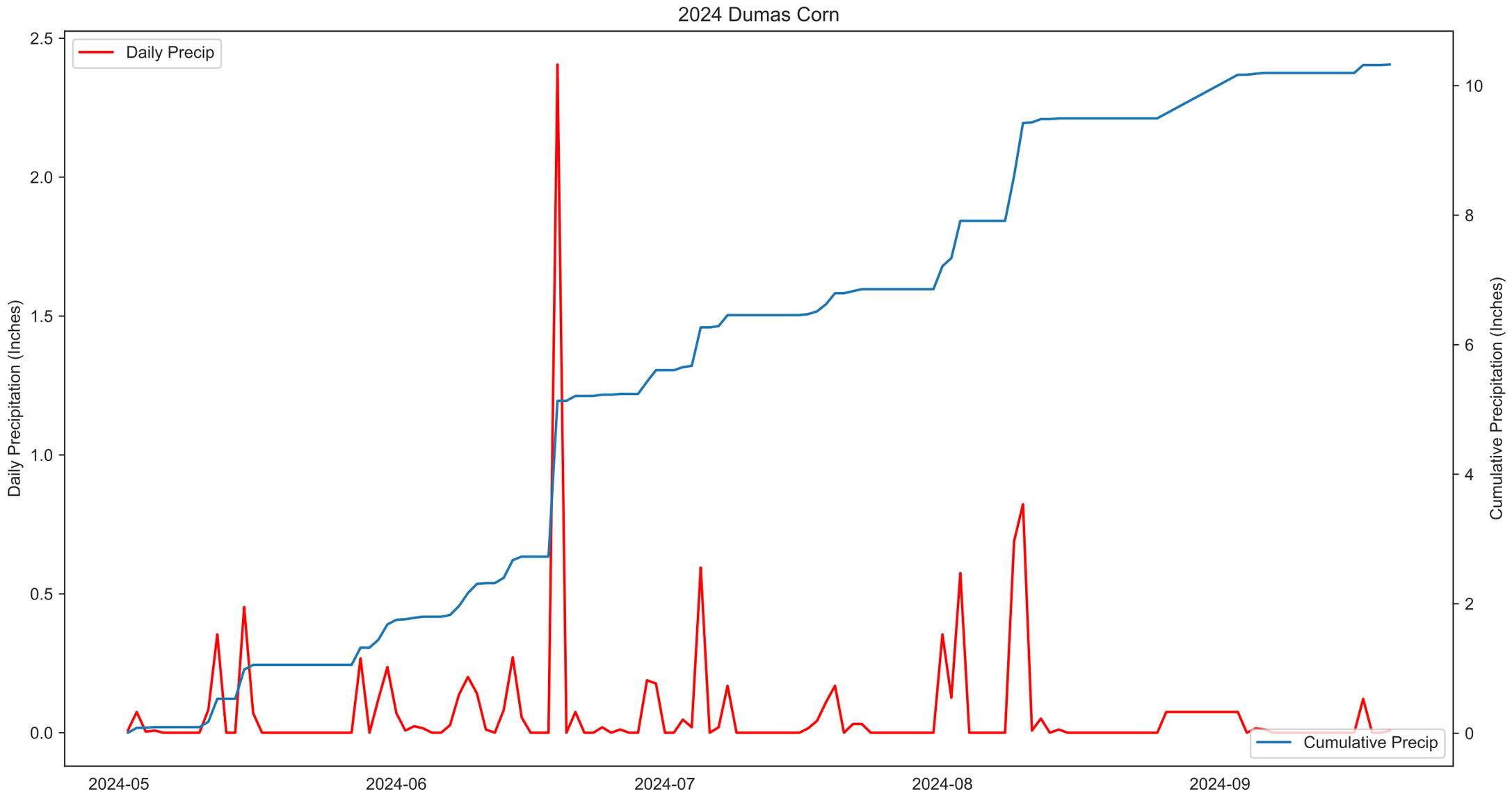
## Fertilizer Applied

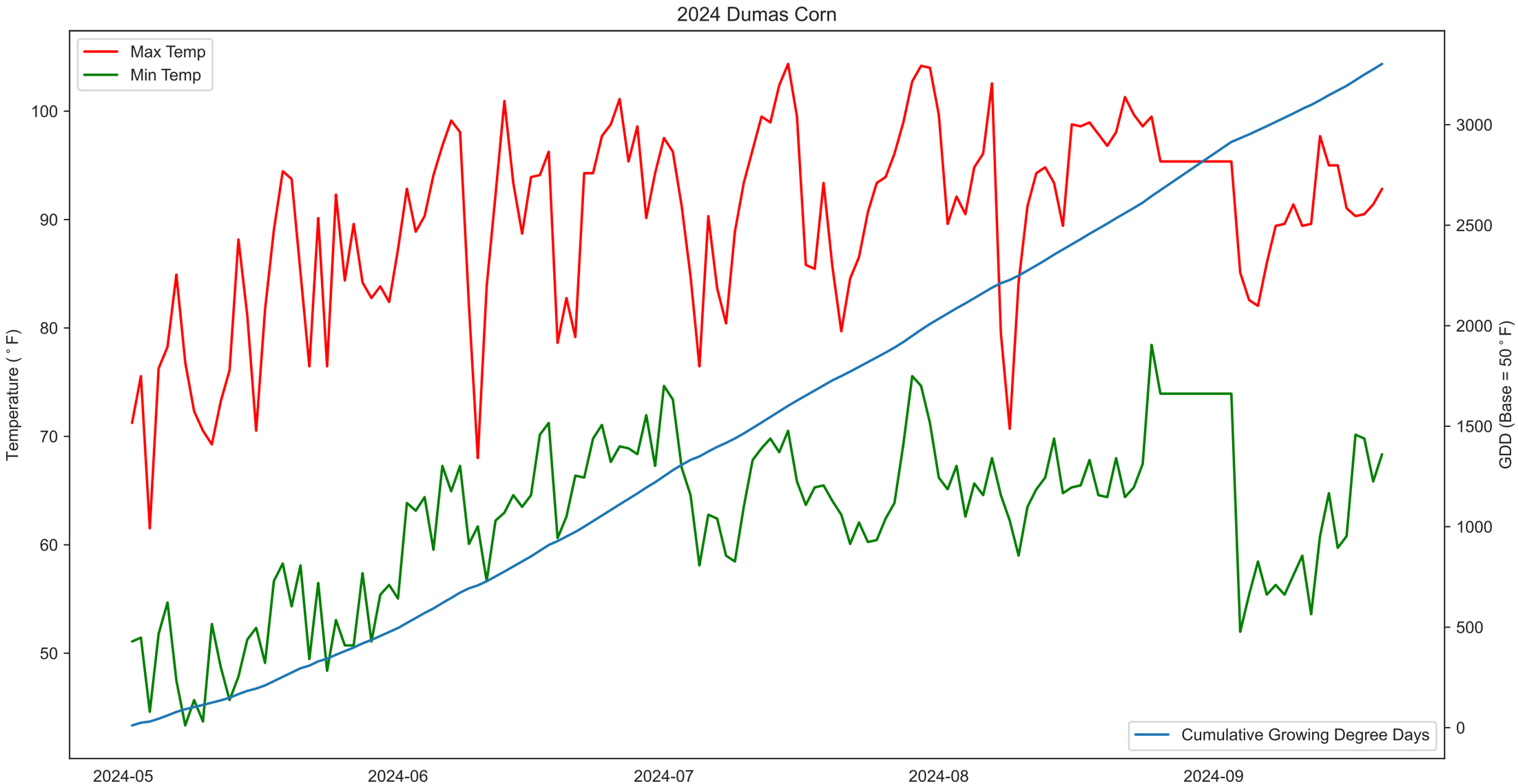
| | |
|---|---|
| N (lb/ac) | |
| P2O5 (lb/ac) | |
| K2O (lb/ac) | |
| S (lb/ac) | |
| Zn (lb/ac) | |

## Soil Analysis Report**

| | | | |
|---|---|---|---|
| NO3-N (ppm) | 126 | pH | 7.3 |
| P (ppm)* | 118 | Conductivity (umho/cm) | 319 |
| K (ppm)* | 643 | Ca (ppm)* | 4,249 |
| S (ppm)* | 53 | Mg (ppm)* | 820 |
| | | Na (ppm)* | 54 |

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


2024 Dumas Corn
Daily Precip
Cumulative Precip
Daily Precipitation (Inches)
Cumulative Precipitation (Inches)
2.5
2.0
1.5
1.0
0.5
0.0
10
8
6
4
2
0
2024-05
2024-06
2024-07
2024-08
2024-09


2024 Dumas Corn
Max Temp
Min Temp
Cumulative Growing Degree Days
Temperature (° F)
GDD (Base = 50 ° F)
100
90
80
70
60
50
3000
2500
2000
1500
1000
500
0
2024-05
2024-06
2024-07
2024-08
2024-09