**2021 Growing Season Report**

**NDSU Extension Service Main Station**

**Corn Hybrid Testing Program**

**Zone 1, Northern Counties**

**Grand Forks County**

**Planting Date**: May 1, 2021

**Harvest Date:** October 5, 2021

**Soil Temp @ planting**: 58o

**Growing season rain:** 8.48”

**Total GGD’s at harvest:** 2616

**Seeding Rate:** 34,000

**Prior crop**: Soybeans

**Herbicide treatments**: Armezon .75fl oz/Atrazine .75pt/Roundup PowerMax+MSO+AMS

**Soil units**: Bearden silty clay loam

**Location**: 47°47'42.36"N, 96°58'47.05"W

**Cooperator**: Chuck Nelson Farms

**# of Entries:** 34

**Trial average yield:** 218 bu/ac

**Notes:** This trial looked good and healthy all season long. Timely rains were received in the northern valley, along with good soils resulted in good yields here.

**Ramsey County**

**Planting Date**: May 1, 2021

**Harvest Date:** October 18, 2021

**Soil Temp @ planting**: 42.3o

**Growing season rain:** 14.7”

**Total GGD’s at harvest:** 2445

**Seeding Rate**: 34,000

**Prior crop**: Pinto beans

**Soil units**: Hamerley-Cresbard loams

**Location**: 48°16'39.03"N, 98°37'3.62"W

**Cooperator**: Paul Becker

**# of Entries:** 34

**Trial average yield:** 210bu/ac

**Notes:**

**Marshall County, MN**

**Planting Date**: May 1, 2021

**Harvest Date:** October 12, 2021

**Soil Temp @ planting**: 51.8o

**Growing season rain:** 11.8”

**Total GGD’s at harvest:** 2504

**Seeding Rate**: 34,000

**Prior crop**: Soybeans

**Herbicide treatments**: Armezon .75fl oz/Atrazine .75pt/Roundup PowerMax+MSO+AMS

**Soil units**: Bearden-Colvin silty loams

**Location**: 48°10'53.00"N, 97° 6'59.72"W

**Cooperator**: Chad Anvinson

**# of Entries:**  34

**Trial average yield:** 208 bu/ac

**Notes:** Trial received timely rains throughout the growing season, despite the dry conditions. This resulted in very favorable growing conditions and yields reflected that.

**Zone 2, Central Counties**

**Cass County**

**Planting Date**: May 6, 2021

**Harvest Date:** September 30, 2021

**Soil Temp @ planting**: 46o

**Growing season rain:** 8.49”

**Total GGD’s at harvest:** 2583

**Seeding Rate:** 34,000

**Prior crop**: Soybeans

**Herbicide treatments**: Laudis, 3 oz/ac & atrazine, .75 oz/ac

**Soil units**: Bearden-Kindred silty clay loam

**Location**: 47° 0'21.25"N, 97° 7'14.53"W

**Cooperator**: NDSU Prosper Research Station

**# of Entries:**  35

**Trial average yield:** 239 bu/ac

**Notes**: Despite low rainfall, this site did very well and showed no signs of drought stress throughout the growing season.

**Traill County**

**Planting Date**: April 30, 2021

**Harvest Date:** October 20, 2021

**Soil Temp @ planting**: 46o

**Growing season rain:** 14.5”

**Total GGD’s at harvest:** 2717

**Seeding Rate:** 34,000

**Prior crop**: Soybeans

**Herbicide treatments**: Armezon .75fl oz/Atrazine .75pt/Roundup PowerMax+MSO+AMS

**Soil units**: Fargo silty clay

**Location**: 47°21'38.71"N, 97°11'58.33"W

**Cooperator**: Tim Kozojed

**# of Entries:**  25

**Trial average yield:** 210 bu/ac

**Notes:** There were some early emergence problems with this trial, but they seemed to correct themselves as the season wore on. No signs of drought stress were ever observed and the corn responded well to whatever precip it received during the season.

**Steele County**

**Planting Date**: April 29
**Harvest Date:** October 12

**Soil Temp @ planting**: 52.4o

**Growing season rain:** 12.15”

**Total GGD’s at harvest:** 2574

**Seeding Rate**: 34,000

**Prior crop**: Dry beans

**Soil units**: Fram-Wyard loams

**Location**: 47°26'25.00"N, 97°39'7.68"W

**Cooperator**: Brandon Roller

**# of Entries:**  25

**Trial average yield:**  173 bu/ac

**Notes:** Dry conditions affected this site pretty good. Some plots showed visible signs of water stress mid-season, but later in the season the site looked better, but still had visibly shorter stalks, and less lush looking leaves.

**Zone 3, Southern Counties:**

**Ransom County**

**Planting Date**: April 29, 2021

**Harvest Date**: October 4, 2021

**Soil Temp @ planting**: 49.5o

**Growing season rain:** 10.69”

**Total GGD’s at harvest:** 2765

**Seeding Rate**: 34,000

**Prior crop**: Soybeans

**Soil units**: Barnes-Svea loams

**Location**: 46°26'28.80"N, 97°47'9.30"W

**Cooperator**: Kyle Heuther

**# of Entries:**  35

**Trial average yield:**  130 bu/ac

**Notes:** Dry conditions had a strong effect on the yields of this trial, but not to the extent that it was a bust. Some signs were noted in a few plots mid-season, but the corn appeared to grow out if it and still have effective pollination and some grain fill.

**Richland County**

**Planting Date**: May 3. 2021

**Harvest Date:** October 4, 2021

**Soil Temp @ planting**: 53o

**Growing season rain:** 10.93”

**Total GGD’s at harvest:** 3671

**Seeding Rate**: 34,000

**Prior crop**: Soybeans

**Soil units**: Gardena silt loam

**Location**: 46°13'29.91"N, 97°14'2.24"W

**Cooperator**: Dan & Matt Thompson

**# of Entries:**  35

**Trial average yield:** 224bu/ac

**Notes:** Dry conditions didn’t appear to affect this trial too much, as it showed no signs of drought stress during the season. A strong gust of wind later in the seasons, however, did cause significant lodging throughout the trial. It was not bad enough to affect yields, however. Most all cobs were able to be picked up by the combine.

**Sargent County**

**Planting Date**: May 7th

**Harvest Date:** October 6th

**Growing season rain:** 9.81”

**Total GGD’s at harvest:** 2637

**Seeding Rate**: 34,000

**Prior crop**: soybeans

**Cooperator**: Casey Decker

**# of Entries:**  35

**Trial average yield:**  88 bu

**Notes:** Trial was a bust due to lack of rainfall and results will not be reported. Coefficient of Variation was 36%, where we expect CV’s below 10%