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Location: 8.5 miles west of South Shore (57263) in Codington County  
(GPS: UTM 14N, 649641 m East 4996544 m North)  
Cooperator: SDSU Northeast Research Farm – Allen Heuer  
Soil Type: Kranzburg-Brookings silty clay loam, 0-2% slope, non-irrigated  
Fertility-Yield Goal: 200 bu/ac (180 lbs N/ac, 110 lbs P<sub>2</sub>O<sub>5</sub>/ac, and 60 lbs K<sub>2</sub>O/ac)  
Soil Test: 24 ppm P & 142 ppm K  
Previous Crop: Soybean  
Tillage: Conventional till  
Row Spacing: 30 inches  
Seeding Rate: 29,620/acre  
Weed Management: Dual II – Pre, Glyphosate – Post  
Date seeded/harvested: May 13/Nov. 6

## 2013 Corn Hybrid Trial Results – South Shore

| Table 1a. Glyphosate-resistant corn hybrid performance results (average of 4 replications sorted by yield) – <b>Early Season Trial (95 day or less) at South Shore (15 Brands, 40 hybrids).</b> |                |                   |                    |                  |                   |            |                               |
|---|----------------|-------------------|--------------------|------------------|-------------------|------------|-------------------------------|
| Hybrid Information  |                |                   | Measurements       |                  |                   |            |                               |
| Brand   | Hybrid         | Relative Maturity | Yield Bu/A (15.5%) | Grain Moisture % | Test Wt. (lbs/bu) | Lodging* % | Final Stand (plants/A x 1000) |
| Rea<br>NuTech/G2 Genetics<br>Channel<br>Federal Hybrids   | <b>CHECK</b>   | 99                | <b>185.0</b>       | 18.4             | 56.8              | 0.4        | 27.1                          |
|   | 3A901-RIB      | 90                | <b>182.3</b>       | 15.0             | 54.9              | 0.0        | 27.9                          |
|   | 5X-894         | 94                | <b>182.2</b>       | 16.3             | 55.7              | 0.0        | 27.6                          |
|   | 191-87STX      | 91                | <b>179.7</b>       | 15.8             | 56.8              | 2.5        | 26.9                          |
|   | 4520 VT3P      | 95                | <b>177.8</b>       | 16.5             | 57.8              | 0.0        | 28.1                          |
| Peterson Farms<br>Channel<br>Epley<br>Federal Hybrids<br>Latham   | PFS76S92       | 92                | <b>177.7</b>       | 18.1             | 55.3              | 0.0        | 28.6                          |
|   | 195-58STX      | 95                | <b>177.7</b>       | 15.0             | 54.0              | 0.0        | 28.4                          |
|   | E9505RR        | 95                | <b>174.4</b>       | 16.9             | 57.6              | 0.4        | 27.6                          |
|   | 4240 VT3P      | 92                | <b>171.9</b>       | 17.4             | 56.2              | 0.0        | 28.7                          |
|   | LH 4098 VT3PRO | 90                | 168.2              | 14.7             | 54.9              | 0.4        | 28.5                          |
| Wensman<br>Wensman<br>Renk<br>Proseed<br>Rea  | W 90935VT3PRO  | 93                | 168.0              | 14.0             | 55.1              | 0.0        | 28.1                          |
|   | W 7140VT3PRIB  | 93                | 167.1              | 17.3             | 57.3              | 0.4        | 26.2                          |
|   | RK585VT3P      | 95                | 166.7              | 15.7             | 55.0              | 0.0        | 27.8                          |
|   | 1295 SS        | 95                | 165.6              | 18.9             | 55.4              | 0.0        | 25.3                          |
|   | 4B285-RIB      | 93                | 164.1              | 14.6             | 53.9              | 0.8        | 28.0                          |
| Pioneer<br>Channel<br>DEKALB<br>Federal Hybrids<br>Nuseed   | P9526AMX       | 95                | 163.1              | 16.1             | 56.9              | 5.4        | 28.3                          |
|   | 189-03VT2P     | 89                | 162.9              | 14.7             | 56.6              | 0.8        | 26.9                          |
|   | DKC43-48RIB    | 93                | 162.3              | 15.9             | 55.3              | 0.0        | 28.6                          |
|   | 4640 VT3P      | 95                | 162.2              | 15.7             | 55.2              | 0.8        | 27.8                          |
|   | 9202 VT2P      | 92                | 161.6              | 14.3             | 53.8              | 1.3        | 25.9                          |
| Nuseed<br>Latham<br>Nuseed<br>Channel<br>Rea  | 9504 VT3P      | 95                | 161.6              | 15.8             | 55.2              | 0.8        | 28.3                          |
|   | LH 4568 VT3PRO | 95                | 161.2              | 15.9             | 54.2              | 0.0        | 28.4                          |
|   | 9001 VP3220    | 90                | 160.7              | 14.1             | 52.6              | 0.8        | 28.3                          |
|   | 192-09VT3P     | 92                | 159.7              | 15.8             | 54.5              | 0.0        | 28.0                          |
|   | 4B941-RIB      | 94                | 159.0              | 17.2             | 56.1              | 0.0        | 28.0                          |
| Latham<br>Renk<br>Latham<br>Nuseed<br>DEKALB  | LH 4455 VT3PRO | 94                | 158.6              | 17.6             | 56.3              | 2.0        | 26.9                          |
|   | RK522SSTX      | 94                | 155.9              | 16.3             | 55.2              | 0.4        | 27.8                          |
|   | LH 4242 VT3PRO | 92                | 154.1              | 17.2             | 55.6              | 0.0        | 28.4                          |
|   | 9503 VT2P      | 95                | 151.0              | 16.4             | 55.9              | 0.0        | 27.9                          |
|   | DKC43-10RIB    | 93                | 150.8              | 16.0             | 54.9              | 0.4        | 27.1                          |
| Dairyland<br>Renk<br>Rea<br>Rea<br>Federal Hybrids  | DS-9791RA      | 91                | 150.5              | 16.7             | 55.9              | 0.4        | 28.7                          |
|   | RK568VT3P      | 95                | 150.0              | 17.3             | 56.2              | 0.4        | 27.4                          |
|   | 3A921-RIB      | 92                | 149.8              | 16.5             | 55.7              | 0.0        | 28.1                          |
|   | 3A929-RIB      | 92                | 148.9              | 16.9             | 55.9              | 0.0        | 28.4                          |
|   | 4440 VT3P      | 94                | 148.8              | 16.9             | 55.9              | 0.4        | 28.4                          |
| Trial Average   |                |                   | 161.6              | 16.2             | 55.5              | 0.5        | 27.5                          |
| LSD (0.05)†   |                |                   | 14.6               | 1.1              | 0.9               | 1.7        | 1.2                           |
| C.V.‡   |                |                   | 6.4                | 4.7              | 1.2               | -          | 3.0                           |

† Yield, moisture, test weight, lodging, and plant population value required ( $\geq$ LSD) to determine if hybrids are different from each other with confidence. No significant (NS) difference between hybrids.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

\*Lodging percentage – stalks broken below the ear as a percentage of the final stand.

## 2013 Corn Hybrid Trial Results – South Shore

| Table 1b. Glyphosate-resistant corn hybrid performance results (average of 4 replications sorted by yield) – <b>Early Season Trial (95 day or less) at South Shore (15 Brands, 40 hybrids).</b> |             |                   |                    |                  |                   |            |                               |
|---|-------------|-------------------|--------------------|------------------|-------------------|------------|-------------------------------|
| Hybrid Information  |             |                   | Measurements       |                  |                   |            |                               |
| Brand   | Hybrid      | Relative Maturity | Yield Bu/A (15.5%) | Grain Moisture % | Test Wt. (lbs/bu) | Lodging* % | Final Stand (plants/A x 1000) |
| Renk  | RK557SSTX   | 95                | 148.8              | 17.4             | 54.0              | 0.0        | 27.6                          |
| Renk  | RK492SSTX   | 92                | 145.9              | 16.7             | 56.7              | 0.0        | 21.3                          |
| Rea   | 4A950-RIB   | 95                | 144.9              | 15.1             | 55.6              | 0.0        | 27.8                          |
| NuTech  | EXP 5N-9404 | 94                | 143.9              | 17.7             | 55.1              | 1.0        | 23.8                          |
| Pioneer   | P9305YHR    | 93                | 140.3              | 15.6             | 53.9              | 2.3        | 28.3                          |
| Trial Average   |             |                   | 161.6              | 16.2             | 55.5              | 0.5        | 27.5                          |
| LSD (0.05)†   |             |                   | 14.6               | 1.1              | 0.9               | 1.7        | 1.2                           |
| C.V.‡   |             |                   | 6.4                | 4.7              | 1.2               | -          | 3.0                           |

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## 2013 Corn Hybrid Trial Results – South Shore

| Table 2a. Glyphosate-resistant corn hybrid performance results (average of 4 replications sorted by yield) – Late Season Trial (96 day or more) at South Shore (12 Brands, 42 hybrids). |                  |                   |                    |                  |                   |            |                               |
|---|------------------|-------------------|--------------------|------------------|-------------------|------------|-------------------------------|
| Hybrid Information  |                  |                   | Measurements       |                  |                   |            |                               |
| Brand   | Hybrid           | Relative Maturity | Yield Bu/A (15.5%) | Grain Moisture % | Test Wt. (lbs/bu) | Lodging* % | Final Stand (plants/A x 1000) |
| Channel   | 197-33STX        | 97                | <b>194.4</b>       | 20.0             | 56.9              | 1.6        | 27.8                          |
| Pioneer   | P9917AMX         | 99                | <b>193.5</b>       | 19.1             | 58.4              | 0.4        | 28.1                          |
| NuTech/G2 Genetics  | 5X-698           | 98                | <b>191.1</b>       | 19.6             | 58.6              | 1.8        | 24.1                          |
|   | <b>CHECK</b>     | 99                | <b>190.0</b>       | 19.3             | 56.8              | 0.4        | 27.8                          |
| DEKALB  | DKC48-12RIB      | 98                | <b>188.5</b>       | 17.9             | 55.5              | 0.0        | 28.1                          |
| Channel   | 197-68STX        | 97                | <b>187.3</b>       | 18.8             | 55.1              | 0.8        | 28.4                          |
| Latham  | LH 5185 VT2PRO   | 101               | <b>185.2</b>       | 19.9             | 56.7              | 2.1        | 26.4                          |
| Rea   | 4A654-RIB        | 96                | <b>183.6</b>       | 17.7             | 57.1              | 0.0        | 28.2                          |
| NuTech/G2 Genetics  | 3F-198           | 98                | <b>181.9</b>       | 16.1             | 53.6              | 0.0        | 26.0                          |
| Rea   | 5A508-RIB        | 99                | <b>181.5</b>       | 19.3             | 56.3              | 0.0        | 27.9                          |
| Proseed   | PX101R VT3P      | 101               | <b>180.6</b>       | 20.7             | 55.0              | 0.4        | 27.9                          |
| DEKALB  | DKC52-04RIB      | 102               | <b>180.6</b>       | 19.3             | 56.4              | 0.8        | 27.2                          |
| Peterson Farms  | PFS55S96         | 96                | <b>180.6</b>       | 18.3             | 58.2              | 0.4        | 27.2                          |
| DEKALB  | DKC49-29RIB      | 99                | <b>180.3</b>       | 19.6             | 56.1              | 0.0        | 27.4                          |
| Rea   | 5A992-RIB        | 99                | 179.6              | 17.8             | 54.4              | 0.0        | 27.9                          |
| Wensman   | W 90967STX       | 96                | 178.9              | 17.5             | 56.7              | 0.8        | 27.3                          |
| Latham  | LH 5088 SS       | 100               | 178.6              | 22.4             | 55.4              | 0.4        | 27.9                          |
| Latham  | LH 4645 VT2PRO   | 96                | 178.0              | 17.2             | 54.1              | 0.4        | 27.2                          |
| Channel   | 196-77STX        | 96                | 177.5              | 18.6             | 57.8              | 0.0        | 28.3                          |
| Pioneer   | P0062AMX         | 100               | 177.3              | 17.6             | 54.2              | 1.6        | 28.2                          |
| Wensman   | W 9288STXRIB     | 98                | 176.7              | 19.6             | 56.2              | 0.8        | 27.1                          |
| DEKALB  | DKC46-20RIB      | 96                | 174.8              | 17.9             | 57.4              | 0.0        | 28.6                          |
| Wensman   | W 70975VT3PRO    | 97                | 174.1              | 18.4             | 57.3              | 0.4        | 28.0                          |
| NuTech/G2 Genetics  | EXP 5Z-9605      | 96                | 172.5              | 17.0             | 56.0              | 0.0        | 26.8                          |
| Latham  | LH 4974 3000GT-A | 99                | 170.5              | 18.5             | 53.9              | 1.3        | 24.9                          |
| Dairyland   | DS-9501SSX       | 101               | 169.1              | 19.5             | 56.1              | 1.6        | 28.5                          |
| Latham  | LH 4926 VT3PRO   | 99                | 168.3              | 21.9             | 55.5              | 0.0        | 23.2                          |
| Peterson Farms  | PFS88A97         | 97                | 167.0              | 18.1             | 54.8              | 0.0        | 26.9                          |
| Proseed   | PX97 SSR         | 97                | 166.2              | 18.4             | 56.4              | 0.0        | 27.8                          |
| Renk  | RK596SSTX        | 98                | 166.1              | 18.3             | 56.6              | 0.9        | 25.8                          |
| Proseed   | PX99A GT3000     | 99                | 165.0              | 18.5             | 53.6              | 2.6        | 24.2                          |
| NuTech  | 5N-498           | 98                | 164.0              | 18.8             | 54.4              | 1.2        | 27.2                          |
| Rea   | 5A980-RIB        | 98                | 164.0              | 17.4             | 58.5              | 0.4        | 27.4                          |
| Dairyland   | DS-9796          | 96                | 163.0              | 17.9             | 57.0              | 0.4        | 28.1                          |
| Latham  | LH 4679 SS       | 96                | 162.3              | 18.6             | 54.8              | 0.0        | 27.4                          |
| Trial Average   |                  |                   | 174.2              | 18.7             | 55.9              | 0.6        | 27.2                          |
| LSD (0.05)†   |                  |                   | 14.3               | 1.3              | 1.4               | NS         | 1.0                           |
| C.V.‡   |                  |                   | 5.9                | 4.9              | 1.8               | -          | 2.6                           |

† Yield, moisture, test weight, lodging, and plant population value required ( $\geq$ LSD) to determine if hybrids are different from each other with confidence. No significant (NS) difference between hybrids.

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Table 2b. Glyphosate-resistant corn hybrid performance results (average of 4 replications sorted by yield) – **Late Season Trial (96 day or more) at South Shore (12 Brands, 42 hybrids).**

| Hybrid Information |           |                   | Measurements       |                  |                   |            |                               |
|--------------------|-----------|-------------------|--------------------|------------------|-------------------|------------|-------------------------------|
| Brand              | Hybrid    | Relative Maturity | Yield Bu/A (15.5%) | Grain Moisture % | Test Wt. (lbs/bu) | Lodging* % | Final Stand (plants/A x 1000) |
| NuTech/G2 Genetics | 5Z-200    | 100               | 162.1              | 17.8             | 52.6              | 2.7        | 28.4                          |
| Renk               | RK581SSTX | 100               | 162.0              | 22.0             | 56.2              | 0.0        | 27.3                          |
| Proseed            | PX96 SSSG | 96                | 161.6              | 15.9             | 57.0              | 0.0        | 27.3                          |
| NuTech/G2 Genetics | 5H-399    | 99                | 161.1              | 18.1             | 53.8              | 1.2        | 27.3                          |
| Dairyland          | DS-9898RA | 98                | 161.1              | 21.4             | 54.7              | 0.0        | 28.6                          |
| Rea                | 4A971-RIB | 97                | 159.2              | 17.5             | 55.3              | 0.4        | 26.2                          |
| Renk               | RK598SSTX | 100               | 158.3              | 18.3             | 57.0              | 0.0        | 27.3                          |
| Trial Average      |           |                   | 174.2              | 18.7             | 55.9              | 0.6        | 27.2                          |
| LSD (0.05)†        |           |                   | 14.3               | 1.3              | 1.4               | NS         | 1.0                           |
| C.V.‡              |           |                   | 5.9                | 4.9              | 1.8               | -          | 2.6                           |

† Yield, moisture, test weight, lodging, and plant population value required ( $\geq$ LSD) to determine if hybrids are different from each other with confidence. No significant (NS) difference between hybrids.

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