

# Nebraska Sunflower Variety (Oil) Test - 2016

## Box Butte Co.\_Dryland

| Brand                                      | Hybrid    | Entry | Oil Type* | Yield rank | Yield** (lbs/a) | Bushel wt (lbs/bu) | Oil %     | Flowering (days after planting) | Plant height (inches) | Population (plants/a) |
|--|-----------|-------|-----------|------------|-----------------|--------------------|-----------|---------------------------------|-----------------------|-----------------------|
| Croplan                                    | 545       | 8     | NS        | 1          | 1058            | 27                 | 39        | 70                              | 58                    | 6970                  |
| Syngenta                                   | 3732 NS   | 3     | NS        | 2          | 949             | 26                 | 40        | 64                              | 50                    | 8625                  |
| Nuseed                                     | Falcon    | 5     | NS        | 3          | 947             | 27                 | 40        | 67                              | 55                    | 9235                  |
| Croplan                                    | 553       | 10    | HO        | 4          | 939             | 26                 | 41        | 69                              | 60                    | 7057                  |
| Croplan                                    | 458       | 13    | HO        | 5          | 934             | 26                 | 39        | 65                              | 59                    | 7841                  |
| Croplan                                    | 549       | 9     | HO        | 6          | 933             | 26                 | 40        | 63                              | 64                    | 8538                  |
| Nuseed                                     | N4Hm354   | 7     | HO        | 7          | 924             | 26                 | 40        | 63                              | 54                    | 7231                  |
| Croplan                                    | 455       | 12    | HO        | 8          | 920             | 27                 | 39        | 64                              | 62                    | 7928                  |
| Syngenta                                   | SY7717    | 2     | HO        | 9          | 920             | 27                 | 40        | 61                              | 50                    | 6970                  |
| Croplan                                    | 432       | 11    | NS        | 10         | 918             | 27                 | 41        | 61                              | 59                    | 9670                  |
| Nuseed                                     | Hornet    | 6     | HO        | 11         | 910             | 26                 | 39        | 68                              | 54                    | 7144                  |
| Syngenta                                   | SY7919    | 1     | HO        | 12         | 888             | 27                 | 39        | 70                              | 51                    | 4356                  |
| Nuseed                                     | Camano II | 4     | NS        | 13         | 878             | 26                 | 40        | 66                              | 55                    | 5314                  |
| Mycogen                                    | 8H449CLDM | 14    | NS        | 14         | 859             | 27                 | 44        | 68                              | 56                    | 5924                  |
| Mycogen                                    | MY8H456CL | 15    | NS        | 15         | 784             | 26                 | 43        | 68                              | 59                    | 6186                  |
| <b>Averages of all entries</b>             |           |       |           |            | <b>917</b>      | <b>26</b>          | <b>40</b> | <b>65</b>                       | <b>56</b>             | <b>7266</b>           |
| <b>CV</b>                                  |           |       |           |            | <b>9</b>        | <b>3</b>           | <b>4</b>  | <b>2</b>                        | <b>5</b>              | <b>18</b>             |
| <b>Differences required for sig. at 5%</b> |           |       |           |            | <b>115</b>      | <b>1</b>           | <b>2</b>  | <b>2</b>                        | <b>4</b>              | <b>1909</b>           |

\*NS = NuSun; HO - High Oleic; T = Traditional

\*\*Adjusted for 10% moisture

Realistic yield would be much higher if population would have been at or near the target population (17500/acre)

**Site:** Alliance-Hemingford, NE

**Planted:** 6/6/2016

**Harvested:** 10/29/2016

**Fertilizer:** 60 lbs N

**Herbicide:** 2 pints Prowl H2O

**Comments** Plant population (<50% of target 17,500/a) in the field remained the main issue. It is because of combinations of issues with the planter, thinning by new summer crew and chemical injury in few plots.

**Oil Data** Done at the USDA-ARS, Northern Crop Science Laboratory by Dr. Brent Hulke's group

