### 2019 Irrigated Oil Sunflower Hybrid Performance Trial at Burlington

**Brand** | **Hybrid** | **Oil Type**<sup>a</sup> | **Technology Traits**<sup>b</sup> | **Yield**<sup>c</sup> | **2-Year Avg. Yield**<sup>c</sup> | **Moisture**<sup>c</sup> | **Test Weight**<sup>c</sup> | **Plant Height**<sup>c</sup> | **Population**<sup>c</sup> | **Oil Content**<sup>c</sup> |
---|---|---|---|---|---|---|---|---|---|---|
Nuseed | N4H521 CL | HO | Clearfield, DM | 3104 | 3285 | 5.6 | 31.6 | 70 | 15,899 | 39.3 |
Dyna-Gro | H49NS14CL | NS | Clearfield, DM | 3076 | 3148 | 5.8 | 33.1 | 74 | 14,084 | 39.8 |
Nuseed | 4170 CL Plus | Traditional | Clearfield Plus | 2971 | - | 6.1 | 32.1 | 80 | 15,609 | 39.8 |
Croplan by Winfield United | CP450E | HO | ExpressSun, DM | 2930 | - | 5.0 | 33.5 | 72 | 14,447 | 38.6 |
Croplan by Winfield United | CP545CL | NS | Clearfield, DM | 2872 | 3099 | 5.5 | 32.9 | 70 | 16,045 | 39.5 |
Dyna-Gro | H49HO19CL | HO | Clearfield, DM | 2671 | 2985 | 5.5 | 33.0 | 69 | 16,698 | 40.2 |
Nuseed | Hornet | HO | Clearfield, DM | 2667 | 2803 | 5.5 | 32.2 | 74 | 14,520 | 38.8 |
Nuseed | N4H407 CL | HO | Clearfield | 2623 | - | 5.6 | 32.1 | 70 | 15,682 | 39.9 |
Croplan by Winfield United | CP455E | HO | ExpressSun, DM | 2587 | 2618 | 5.4 | 32.8 | 74 | 14,956 | 39.1 |
Dyna-Gro | H48HO15CL | HO | Clearfield, DM | 2542 | 2969 | 5.6 | 31.9 | 72 | 14,302 | 40.4 |
Croplan by Winfield United | CP432E | NS | Clearfield, DM | 2495 | 2533 | 4.9 | 32.8 | 66 | 16,480 | 39.2 |
Croplan by Winfield United | CPX59619CLP | NS | Clearfield Plus | 2466 | - | 5.2 | 31.8 | 70 | 14,956 | 39.4 |
Croplan by Winfield United | CL4909E | NS | ExpressSun | 2395 | - | 5.1 | 33.4 | 70 | 16,480 | 40.2 |
S&W Seed Co | NSW20440 | HO | Clearfield | 2339 | - | 5.6 | 32.1 | 70 | 15,246 | 39.7 |
Nuseed | N4H422 CL | HO | Clearfield | 2243 | - | 5.5 | 32.8 | 75 | 14,883 | 39.1 |
Croplan by Winfield United | CP3845 | HO | N/A | 2123 | 2505 | 5.0 | 33.1 | 68 | 16,262 | 41.0 |
Nuseed | N4H470 CL Plus | HO | Clearfield Plus, DM | 2078 | 2211 | 5.8 | 33.4 | 63 | 15,682 | 39.8 |
Croplan by Winfield United | CP432E ProSize | NS | ExpressSun, DM | 2076 | - | 5.0 | 32.7 | 64 | 14,447 | 38.5 |
Nuseed | N4HM354 | NS | Clearfield, DM | 1863 | - | 5.0 | 33.7 | 72 | 15,536 | 40.1 |
S&W Seed Co | NSW20110 | HO | Clearfield | 1736 | - | 5.1 | 32.9 | 68 | 14,883 | 40.2 |
Dyna-Gro | H45NS16CL | NS | Clearfield, DM | 1734 | 2063 | 5.1 | 32.2 | 68 | 15,028 | 40.5 |
Nuseed | N4H302 E | HO | ExpressSun | 1620 | 1832 | 5.3 | 31.9 | 64 | 15,173 | 39.0 |
Nuseed | 4140 CL | Traditional | Clearfield | 1469 | - | 7.0 | 32.4 | 78 | 17,714 | 38.9 |
**Average** | | | | 2377 | 2671 | 5.4 | 32.7 | 70 | 15,435 | 39.6 |

<sup>a</sup>LSD (P<0.30) 289  
<sup>b</sup>LSD (P<0.05) 552  
<sup>c</sup>Coefficient of Variation (%) 17.2  
<sup>d</sup>Oil type designations: HO=High oleic; NS=NuSun/Mid-oleic.  
<sup>e</sup>Yield and oil content were corrected to 10% moisture at harvest. Hybrids in the top yield group (P<0.30) are bolded.  
<sup>f</sup>Technology trait designations: Clearfield and Clearfield Plus=tolerant to Beyond herbicide; DM=downy mildew resistance; ExpressSun=tolerant to Express herbicide; N/A=no technology traits.  
<sup>g</sup>If the difference between two hybrid yields equals or exceeds the LSD value, there is a 70% chance (P<0.30) or 95% chance (P<0.05) the difference is significant.

### Site Information

Collaborator: Gerhard Heintges  
Planting Date: June 10, 2019  
Harvest Date: October 17, 2019  
Irrigation: Center-pivot  
Soil Type: Norka-Colby silt loam  

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