



**2018 Limited-Irrigation Confection Sunflower
Hybrid Variety Performance Trial at Burlington**

| Brand | Hybrid | Technology Traits ^b | 2-Year | | Moisture | Test Weight | Plant Height | Population |
|------------------------------|-------------|--------------------------------|--------------------|-------------|-------------|-------------|--------------|---------------|
| | | | Yield ^c | Avg. Yield | | | | |
| | | | lb/ac | lb/ac | percent | lb/bu | in | plants/ac |
| Red River Commodities, Inc | RRC 2414 | N/A | 3922 | - | 13.2 | 17.5 | 72 | 15,329 |
| SunOpta | 9590 | N/A | 3517 | - | 11.8 | 17.0 | 62 | 16,501 |
| Nuseed | 5009 | N/A | 3287 | 3261 | 11.4 | 19.5 | 45 | 12,569 |
| Nuseed | 4334 | Clearfield | 3220 | 3419 | 12.0 | 17.6 | 60 | 15,811 |
| Red River Commodities, Inc | RRC 2310 | N/A | 3210 | - | 13.0 | 18.4 | 70 | 16,511 |
| SunOpta | 9521 | N/A | 3042 | - | 11.9 | 18.7 | 52 | 13,636 |
| Red River Commodities, Inc | RRC 2319 | N/A | 2897 | - | 11.3 | 16.1 | 60 | 14,743 |
| SunOpta | 9569 | N/A | 2850 | - | 12.0 | 18.2 | 41 | 15,043 |
| Valia Genetics | Valia 41 | N/A | 2697 | 2928 | 11.9 | 18.8 | 55 | 16,802 |
| Valia Genetics | H9811 EXP | N/A | 2626 | - | 11.1 | 18.4 | 46 | 16,262 |
| Red River Commodities, Inc | EXP 05 | Clearfield Plus | 2623 | - | 12.7 | 15.3 | 47 | 14,839 |
| SunOpta | 9579 | N/A | 2619 | - | 11.1 | 18.4 | 50 | 16,030 |
| Nuseed | NSKM65891 | N/A | 2563 | - | 13.0 | 18.2 | 56 | 14,738 |
| Nuseed | Panther DMR | DM | 2488 | 2467 | 11.4 | 19.9 | 42 | 17,134 |
| Nuseed | NSKM65802 | N/A | 2424 | - | 13.2 | 16.2 | 38 | 15,898 |
| Valia Genetics | Valia 73 | N/A | 2360 | - | 11.3 | 17.6 | 52 | 14,256 |
| Red River Commodities, Inc | RRC 2215 | N/A | 2333 | 2947 | 11.6 | 18.2 | 45 | 14,995 |
| SunOpta | 9549 | N/A | 2318 | - | 10.7 | 16.8 | 41 | 17,714 |
| Average | | | 2833 | 3005 | 11.9 | 17.8 | 52 | 15,489 |
| ^d LSD (P<0.30) | | | 376 | | | | | |
| ^d LSD (P<0.05) | | | 722 | | | | | |
| Coefficient of Variation (%) | | | 18.2 | | | | | |

^aOil type designations: HO=High oleic; NS=NuSun/Mid-oleic.

^bTechnology trait designations: Clearfield and Clearfield Plus=tolerant to Beyond herbicide; DM=downy mildew resistance; ExpressSun=tolerant to Express herbicide; N/A=no technology traits.

^cYield and oil content were corrected to 10% moisture at harvest.

^dIf 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 5, 2018
 Harvest Date: November 1, 2018
 Fertilizer: N at 120 and P at 35 lb/ac
 Herbicide: Authority Elite at 19 oz/ac
 Insecticide: Prevathon at 20 oz/ac applied 8/7/2018 and Mustang Maxx at 4 oz/ac on 8/23/2018
 Irrigation: Center-pivot
 Soil Type: Colby loam

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