

**NDSU Langdon Research Extension Center
2016 Oil Sunflower Trial**

Oil Sunflower - 2016 (page 1)

Langdon

| Brand | Hybrid | Hybrid Type ¹ | Status ² | Days to Flower (DAP) ³ | Days to PM (DAP) ³ | Plant Height (inch) | Stem Lodging 0-9 | Oil (%) | Test Weight (lb/bu) | Harvest Moist. % | Seed Yield | | | | |
|---------|------------|--------------------------|---------------------|--------------------------------------|----------------------------------|------------------------|---------------------|---------|------------------------|---------------------|------------|------|------|-----------|-----------|
| | | | | | | | | | | | 2014 | 2015 | 2016 | 2-yr Avg. | 3-yr Avg. |
| Croplan | 545 CL | CL, NS, DMR | CA | 78 | 121 | 70 | 0.9 | 44.4 | 34.4 | 25.1 | 2625 | 3405 | 3465 | 3435 | 3165 |
| Croplan | 549 CL HO | CL, HO, DMR | CA | 66 | 116 | 67 | 1.5 | 47.0 | 34.2 | 9.4 | -- | 3038 | 2880 | 2959 | -- |
| Croplan | 553 CL HO | CL, HO, DMR | CA | 79 | 123 | 66 | 5.5 | 44.0 | 33.7 | 26.1 | -- | 3087 | 3120 | 3103 | -- |
| Croplan | 432 E | EX, NS, DMR | CA | 73 | 117 | 64 | 2.4 | 41.2 | 36.5 | 10.5 | 2822 | 3426 | 2449 | 2938 | 2899 |
| Croplan | 455 E HO | EX, HO, DMR | CA | 76 | 121 | 66 | 0.9 | 43.4 | 33.9 | 17.4 | -- | -- | 3356 | -- | -- |
| Croplan | 458 HO | EX, HO, DMR | CA | 76 | 120 | 69 | 0.3 | 45.6 | 33.4 | 12.7 | 2303 | 2831 | 2988 | 2909 | 2707 |
| Croplan | EXP 15-117 | CL, HO, DMR | Exp | 77 | 116 | 66 | 0.4 | 42.6 | 32.7 | 12.3 | -- | 2789 | 3060 | 2925 | -- |
| Croplan | EXP 15-118 | CL, HO, DMR | Exp | 77 | 117 | 62 | 0.0 | 42.8 | 33.0 | 12.0 | -- | 2548 | 3322 | 2935 | -- |
| Croplan | EXP 15-187 | CL, HO, DMR | Exp | 79 | 120 | 71 | 0.2 | 41.1 | 34.7 | 16.8 | -- | 2914 | 2972 | 2943 | -- |
| Croplan | EXP 16-211 | CL, HO, DMR | Exp | 74 | 117 | 61 | 0.0 | 46.2 | 33.4 | 13.7 | -- | -- | 3125 | -- | -- |
| Croplan | EXP 16-001 | CL, HO, DMR | Exp | 75 | 116 | 59 | 1.2 | 44.8 | 32.4 | 10.2 | -- | -- | 2951 | -- | -- |
| Croplan | EXP 16-002 | CL, HO, DMR | Exp | 75 | 117 | 65 | 0.3 | 46.5 | 34.3 | 11.3 | -- | -- | 2996 | -- | -- |
| Croplan | EXP 16-003 | CL, HO, DMR | Exp | 78 | 123 | 68 | 1.2 | 46.4 | 32.0 | 22.6 | -- | -- | 3723 | -- | -- |
| Croplan | EXP 16-288 | CL, HO, DMR | Exp | 78 | 120 | 61 | 1.4 | 49.4 | 34.8 | 18.2 | -- | -- | 2990 | -- | -- |
| Croplan | EXP 16-290 | CL, HO, DMR | Exp | 76 | 117 | 64 | 3.5 | 47.6 | 36.6 | 14.3 | -- | -- | 3156 | -- | -- |
| Nuseed | Talon | EX, NS, Dehull | CA | 74 | 115 | 66 | 5.3 | 44.3 | 30.6 | 13.6 | -- | 3287 | 3483 | 3385 | 3385 |
| Nuseed | Cobalt II | CL, HO, DMR | CA | 74 | 117 | 64 | 1.5 | 44.6 | 36.1 | 14.5 | 2656 | 2968 | 3083 | 3025 | 2902 |
| Nuseed | Camaro II | CL, NS, DMR | CA | 76 | 118 | 66 | 3.0 | 44.2 | 35.6 | 18.2 | 2956 | 3360 | 3068 | 3214 | 3128 |
| Nuseed | Hornet | CL, HO, DMR | CA | 78 | 119 | 67 | 3.5 | 45.7 | 33.3 | 19.6 | 2305 | 3736 | 3730 | 3733 | 3257 |
| Nuseed | N4HM354 | CL, HO, DMR | CA | 74 | 115 | 63 | 0.3 | 46.8 | 37.5 | 11.3 | -- | -- | 3508 | -- | -- |
| Nuseed | Falcon | EX, NS | CA | 77 | 119 | 63 | 1.7 | 45.0 | 36.8 | 16.8 | 2475 | 3082 | 3038 | 3060 | 2865 |
| Nuseed | Badger DMR | CL, NS, Conoil, DMR | CA | 73 | 115 | 66 | 1.5 | 36.7 | 33.1 | 10.8 | 3005 | 2762 | 3799 | 3281 | 3189 |
| Nuseed | N5LM307 | CL, NS, Conoil, DMR | CA | 74 | 115 | 63 | 0.5 | 39.3 | 31.5 | 13.1 | -- | -- | 2745 | -- | -- |
| NuTech | 63C4 | CL, NS, DMR | CA | 74 | 116 | 62 | 1.5 | 46.8 | 38.2 | 10.7 | -- | -- | 3191 | -- | -- |
| NuTech | 68H7 | EX, HO, DMR | CA | 76 | 120 | 73 | 1.4 | 43.8 | 37.2 | 14.7 | 3117 | 2837 | 3439 | 3138 | 3131 |

**NDSU Langdon Research Extension Center
2016 Oil Sunflower Trial**

| Oil Sunflower - 2016 (page 2) | | | | | | | | | | | Langdon | | | | |
|-------------------------------|----------|--------------------------|---------------------|--------------------------------------|----------------------------------|------------------------|---------------------|---------|------------------------|---------------------|------------|------|------|-----------|-----------|
| Brand | Hybrid | Hybrid Type ¹ | Status ² | Days to Flower (DAP) ³ | Days to PM (DAP) ³ | Plant Height (inch) | Stem Lodging 0-9 | Oil (%) | Test Weight (lb/bu) | Harvest Moist. % | Seed Yield | | | | |
| | | | | | | | | | | | 2014 | 2015 | 2016 | 2-yr Avg. | 3-yr Avg. |
| Pioneer | P63HE60 | EX, HO, DMR | CA | 74 | 116 | 68 | 0.4 | 46.9 | 36.3 | 11.0 | -- | -- | 2704 | -- | -- |
| Pioneer | P63ME70 | EX, NS, DMR | CA | 75 | 117 | 65 | 1.2 | 47.2 | 33.0 | 9.9 | -- | -- | 3201 | -- | -- |
| Pioneer | P63HE90 | EX, HO, DMR | CA | 76 | 121 | 64 | 1.8 | 44.2 | 34.4 | 15.8 | -- | -- | 3476 | -- | -- |
| Proseed | E50061CL | CL, HO, DMR | Exp | 78 | 121 | 69 | 0.0 | 45.6 | 33.7 | 12.9 | -- | -- | 3292 | -- | -- |
| Proseed | 12G25 | CL, HO | CA | 75 | 117 | 65 | 1.1 | 47.3 | 36.5 | 14.4 | -- | -- | 3487 | -- | -- |
| Proseed | E-31 | CL, HO | CA | 76 | 117 | 68 | 1.4 | 40.9 | 31.6 | 11.6 | 2770 | 2656 | 2665 | 2660 | 2697 |
| Proseed | 12G04 | HO, DMR | CA | 76 | 120 | 62 | 0.8 | 49.2 | 35.7 | 11.9 | -- | -- | 3116 | -- | -- |
| Syngenta | SY7717 | CL, HO, DMR | CA | 74 | 116 | 65 | 0.7 | 45.4 | 33.7 | 10.2 | 2607 | 3278 | 2609 | 2943 | 2831 |
| Syngenta | SY7919 | CL, HO, DMR | CA | 78 | 123 | 64 | 2.1 | 46.9 | 32.7 | 21.6 | -- | -- | 3426 | -- | -- |
| Syngenta | NX64288 | CL, HO, DMR | Exp | 78 | 121 | 59 | 3.0 | 49.5 | 34.3 | 16.9 | -- | -- | 3349 | -- | -- |
| Syngenta | NX64189 | CL, HO, DMR | Exp | 76 | 119 | 65 | 3.8 | 44.8 | 33.4 | 11.7 | -- | -- | 3095 | -- | -- |
| USDA | 894 | Trad | CK | 72 | 114 | 61 | 1.0 | 43.3 | 34.7 | 7.5 | 2500 | 2700 | 2263 | 2482 | 2488 |
| Trial Mean | | | | 76 | 118 | 65 | 1.6 | 44.9 | 34.3 | 14.6 | 2267 | 2984 | 3114 | -- | -- |
| C.V. % | | | | 3.0 | 1.3 | 5.5 | 76.4 | 2.5 | 1.8 | 11.9 | 9.7 | 10.2 | 10.2 | -- | -- |
| LSD 5% | | | | 3.7 | 2.5 | 5.8 | 1.9 | 1.9 | 1.0 | 2.8 | 425 | 496 | 528 | -- | -- |
| LSD 10% | | | | 3.1 | 2.1 | 4.9 | 1.6 | 1.6 | 0.8 | 2.4 | 354 | 415 | 441 | -- | -- |

¹Type: HO = High Oleic, NS = NuSun, Trad = Traditional(linoleic), CL = Clearfield, EX= ExpressSun, DMR = Downy Mildew Resistant, Dehull

²Status: CA-Commercially available, Exp-Experimental, CK-Long term hybrid check

³Days after planting

Oil, harvest yield and test weight were adjusted to 10% moisture.

Planting Date: May 18

Harvest Date: October 20

Maturity Check: Days to mature; Honeycomb-108, 8N270-116, Falcon-120, 559CL-121.