



2022 Irrigated Oil Sunflower Hybrid Performance Trial at Burlington

Brand	Hybrid	Oil Type ^a	Technology Traits ^b	Grain		2-Year		Test	Plant	Population	Oil
				Yield ^c	Yield	Avg. Yield	Moisture	Weight	Height		Content
				bu/ac	% of test avg.	bu/ac	percent	lb/bu	in	plants/ac	percent
Nuseed	N4H521 CL	HO	Clearfield, DMR	4000	129%	3665	17	28	63	21,200	39
DYNAGRO	H49HO19CL	HO	Clearfield	3810	123%	3270	17	29	67	16,000	38
Nuseed	Hornet	HO	Clearfield, DMR	3788	123%	3229	16	30	67	20,700	38
Nuseed	N4H422 CL	HO	Clearfield, DMR	3606	117%	3153	17	29	71	21,300	36
DYNAGRO	H49NS14CL	NS	Clearfield	3440	111%	3145	26	29	60	15,600	36
DYNAGRO	H50HO20CP	HO	Clearfield Plus	3344	108%	-	18	29	69	21,500	40
DYNAGRO	H47HO11EX	HO	ExpressSun	3167	102%	-	21	29	69	15,700	35
Nuseed	NHKE04490	HO	N/A	3117	101%	-	19	30	74	23,200	38
CROPLAN	CP7919CL	NS	Clearfield	2956	96%	3188	20	27	61	20,100	40
CHS	8D310CL	HO	Clearfield	2654	86%	-	17	28	68	20,700	35
DYNAGRO	H45HO10EX	HO	ExpressSun	2632	85%	-	17	27	67	18,800	37
DYNAGRO	H45NS16CL	NS	Clearfield	2573	83%	-	17	30	63	18,800	36
CROPLAN	CP455E	HO	ExpressSun	2501	81%	2510	16	29	63	19,600	38
Nuseed	N4H470 CLP	HO	Clearfield Plus, DMR	2437	79%	2479	22	29	69	19,900	37
DYNAGRO	H42HO18CL	HO	Clearfield	2330	75%	-	19	29	54	18,800	36
Average				3090	100%	3080	19	29	66	19,500	37
				^d LSD (0.30)	292						
				^d LSD (0.05)	567						
				Coefficient of Variation (%)	11						

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

^bTechnology trait designations: Clearfield and Clearfield Plus=tolerant to Beyond herbicide; DMR=downy mildew resistance; ExpressSun=tolerant to Express herbicide.

^cYield and oil content were corrected to 10% moisture at harvest. Hybrids in the top yield group (P<0.30) are bolded.

^dFarmers selecting a hybrid based on yield should use the LSD (.30) to protect themselves from false negative conclusions (concluding hybrids are the same when they are actually different). Companies or researchers may be interested in the LSD (.05) to avoid false positive conclusions (concluding hybrids are different when they are actually the same).

Site Information

Collaborator: Gerhard Heintges
 Planting Date: June 11, 2022
 Harvest Date: October 13, 2022
 Soil Type: Richfield silty clay loam
 GPS Coordinates: 39.20127, -102.27284

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