

**2021 Irrigated Confection Sunflower Hybrid
 Performance Trial at Burlington**

Brand	Hybrid	Technology Traits ^a	Yield ^b lb/ac	2-Year Avg. Yield lb/ac	Moisture percent	Test Weight lb/bu	Plant Height in	Population plants/ac	Seed Retained Over Screen			
									Over 24/64	Over 22/64	Over 20/64	Over 16/64
Royal Hybrid	RH609CLP	Clearfield Plus	4320	3649	12	18	80	15,500	47.8	27.0	18.2	6.8
Valia Genetics	Valia 95	N/A	3300	2963	12	18	68	16,700	42.5	28.1	19.7	9.4
Valia Genetics	D2101EXP	Clearfield	3120	-	13	20	80	19,200	6.7	4.5	5.8	44.2
Royal Hybrid	21-EXP01	ExpressSun	3030	-	12	18	63	17,600	26.7	28.8	28.3	15.3
SH Seeds	SHS 46	IMI	3030	-	12	17	60	14,700	73.4	18.2	7.0	1.2
Red River Commodities	RRC 2319	N/A	2880	2762	12	18	72	14,500	60.2	25.5	11.1	2.7
Red River Commodities	RRC 2414	N/A	2820	3145	13	18	64	13,900	66.4	19.4	10.0	3.8
Nuseed	4334	Clearfield	2640	-	12	18	74	12,500	62.9	22.7	9.5	4.8
Valia Genetics	Valia 92	N/A	2610	2714	13	19	72	17,300	22.8	25.8	30.1	18.4
Valia Genetics	Valia 41	N/A	2490	2593	12	19	64	10,000	23.8	29.6	33.9	12.5
SH Seeds	Express	IMI	2460	-	11	18	60	12,200	11.7	29.3	29.8	26.9
Red River Commodities	RRC 2310	N/A	2430	2511	13	20	73	14,700	70.3	17.2	10.1	1.8
Nuseed	NSKM15788	Clearfield	2130	-	13	17	72	16,400	11.9	25.2	38.5	23.0
Nuseed	NDKM16761	Clearfield	2070	-	12	19	60	16,700	56.7	22.5	13.6	6.6
Nuseed	NJKE15790	Clearfield	1500	-	11	19	54	14,500	32.5	24.8	24.8	16.4
Average			2720	2905	12	18	68	15,100	41.1	23.2	19.4	12.9
^c LSD (P<0.30)			375									
^c LSD (P<0.05)			722									
Coefficient of Variation (%)			17.9									

^aTechnology trait designations: Clearfield and Clearfield Plus=tolerant to Beyond herbicide; ExpressSun=tolerant to Express herbicide; IMI=tolerant to imidazolinone herbicide; N/A=no technology traits.

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

^cFarmers selecting a hybrid based on yield should use the LSD (.30) to protect themselves from false negative decisions. Companies or researchers may be interested in the LSD (.05) to avoid false positive conclusions.

Site Information

Collaborator: Gerhard Heintges
 Planting Date: June 11, 2021
 Harvest Date: October 21, 2021
 Fertilizer: N at 120 and P at 35 lb/ac
 Herbicide: Spartan and Zidua at labeled rates
 Soil Type: Richfield silty clay loam
 GPS Coordinates: 39.20124, -102.27261

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