



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

Brand	Hybrid	Technology Traits ^b	Yield ^c 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
Red River Commodities, Inc	RRC 2414	N/A	3922	-	13.2	17.5	72	15,329	60.6	82.5	93.1	99.0
SunOpta	9590	N/A	3517	-	11.8	17.0	62	16,501	17.7	39.6	71.9	98.1
Nuseed	5009	N/A	3287	3261	11.4	19.5	45	12,569	10.4	32.9	71.2	97.7
Nuseed	4334	Clearfield	3220	3419	12.0	17.6	60	15,811	44.4	76.1	94.7	99.2
Red River Commodities, Inc	RRC 2310	N/A	3210	-	13.0	18.4	70	16,511	53.3	75.9	91.4	98.8
SunOpta	9521	N/A	3042	-	11.9	18.7	52	13,636	43.6	70.1	90.0	98.7
Red River Commodities, Inc	RRC 2319	N/A	2897	-	11.3	16.1	60	14,743	54.0	72.4	90.3	99.0
SunOpta	9569	N/A	2850	-	12.0	18.2	41	15,043	20.0	50.1	80.3	97.8
Valia Genetics	Valia 41	N/A	2697	2928	11.9	18.8	55	16,802	23.7	48.7	80.9	98.9
Valia Genetics	H9811 EXP	N/A	2626	-	11.1	18.4	46	16,262	38.3	68.5	87.1	98.3
Red River Commodities, Inc	EXP 05	Clearfield Plus	2623	-	12.7	15.3	47	14,839	21.2	52.7	85.6	98.4
SunOpta	9579	N/A	2619	-	11.1	18.4	50	16,030	25.5	64.6	88.6	99.2
Nuseed	NSKM65891	N/A	2563	-	13.0	18.2	56	14,738	31.0	60.1	84.5	98.5
Nuseed	Panther DMR	DM	2488	2467	11.4	19.9	42	17,134	32.9	50.8	77.9	97.7
Nuseed	NSKM65802	N/A	2424	-	13.2	16.2	38	15,898	33.1	58.6	84.9	98.6
Valia Genetics	Valia 73	N/A	2360	-	11.3	17.6	52	14,256	25.9	53.2	77.7	97.1
Red River Commodities, Inc	RRC 2215	N/A	2333	2947	11.6	18.2	45	14,995	22.0	58.6	85.7	97.5
SunOpta	9549	N/A	2318	-	10.7	16.8	41	17,714	12.3	31.8	65.8	96.8
Average			2833	3005	11.9	17.8	52	15,489	31.7	58.2	83.4	98.3
^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

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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