

2018 SCN Uniform Test IV

Strain	FPhlm	Parentage	Previous testing	Gen. Comp.	SCN res source	Traits
1 LD06-7620	PLtbl	IA3023 x LD00-3309	6	F5	PI 88788	
2 LD07-3395bf	WGbf	Syngenta WW115926 x LD00-2817	4	F5	PI 88788, 437654	
3 LD00-2817P	PGibl	Ina x Dwight	9	F5	PI 88788, 437654	
4 K15-1303	PTbl	LD06-7620 x 435.TCS	17 PT IV	F5	PI 88788	
5 K15-1310	PTbl	LD06-7620 x 435.TCS	17 PT IV	F5	PI 88788	STS
6 LD13-8769	PLtbl	LD06-7596 x LD00-3309(5) x LD07-5065	17 UT IV	F5	PI 88788, 468916	2 G. soja QTL
7 S13-2743C	WGbf	S08-17361 x S05-11482	17 UT IV		PI 88788	
8 S13-10590C	WTbl	LS07-3125 x S05-11400			PI 437654	

Entry	IL SCN screening									
	cyst counts			HG 0		cyst counts			HG 2.5.7	
	rep1	rep2	rep3	FI	rating	rep1	rep2	rep3	FI	rating
1 LD06-7620	38	28	46	12	R	143	174	178	81	NR
2 LD07-3395bf	5	4	6	2	HR	1	3	2	1	HR
3 LD00-2817P	3	3	3	1	HR	3	4	2	1	HR
4 K15-1303	16	37	75	14	R	86	112	106	50	LR
5 K15-1310	77	41	70	21	R	137	103	99	56	LR
6 LD13-8769	3	4	6	1	HR	50	46	52	24	R
7 S13-2743C	39	49	25	13	R	71	93	84	41	LR
8 S13-10590C	158	229	197	65	NR	111	100	94	50	LR

2018 SCN Uniform Test IV

2018 Summary

Entry	Yield										Seed			
	All		Infested		Non-infested		Maturity	Lodging	Height	quality	weight	protein	oil	
	bu/a	rank	bu/a	rank	bu/a	rank	date	score	in.	score	g/100	@13%	@13%	
	Locations	8*		5*		3		9	9	9	6	6	4	4
1	LD06-7620	54.0	5	59.2	1	45.4	8	9/21	1.8	29	2.8	13.6	34.6	17.3
2	LD07-3395bf	53.5	6	55.9	5	49.2	6	-3	1.7	29	2.9	14.5	33.1	18.7
3	LD00-2817P	52.9	7	55.8	6	47.6	7	3	2.0	36	2.8	12.4	33.4	18.0
4	K15-1303	56.4	1	59.1	2	51.7	3	4	2.4	32	2.9	15.5	35.1	17.0
5	K15-1310	54.4	4	55.0	7	53.1	2	5	1.9	32	2.6	14.4	35.0	17.3
6	LD13-8769	55.6	2	58.3	3	50.8	5	-1	2.1	34	2.4	12.5	34.3	17.7
7	S13-2743C	55.3	3	56.0	4	53.8	1	4	1.9	36	2.3	12.7	33.9	18.2
8	S13-10590C	49.8	8	48.4	8	51.6	4	6	1.9	34	2.7	14.8	35.5	17.6
	Mean	54.0		55.9		50.4		23.5	1.9	32.7	2.7	13.8	34.4	17.7
	LSD(.05)	2.4		3.0		4.0		1.1	0.2	1.1				
	C.V. %	7.7		7.3		8.3		9.0	18.0	6.4				
	Replications	21		14		7		26	26	26				

* Clarkton, MO yield data not included in means

2018 SCN Uniform Test IV

Yield (bu/a)

SCN HG Type	Neoga	Manhattan	Onaga	Novelty	Rock Port	Clarkton	Portage-	Ottawa	Jackson
	IL	KS	KS	MO	MO	MO	ville	KS	TN
SCN HG Type	2.5.7	Inf	Inf	2.5.7	2.5.7	2.5.7	NI	NI	NI
Strain									
1 LD06-7620	76.3	43.9	32.5	62.1	80.1	12.7	51.4	34.6	53.1
2 LD07-3395bf	82.5	37.5	30.8	59.1	69.5	18.4	50.2	32.9	67.7
3 LD00-2817P	77.2	29.0	34.3	63.8	75.8	23.0	46.1	35.8	64.2
4 K15-1303	83.8	43.2	33.0	61.6	73.9	10.7	56.2	36.8	65.4
5 K15-1310	74.6	32.8	31.7	60.1	76.1	15.2	58.2	35.6	68.8
6 LD13-8769	77.9	39.3	31.1	65.6	77.6	5.2	51.3	39.5	64.8
7 S13-2743C	62.5	36.3	43.1	61.8	76.5	15.1	58.0	44.8	61.9
8 S13-10590C	59.0	28.3	30.7	55.4	70.1	23.0	61.7	35.8	60.6
Average	74.2	36.4	33.9	61.2	74.9	15.4	54.1	37.0	63.3
LSD(2-sided,.05)	14.3	5.9	5.9	4.6	9.5	10.1	7.7	0.0	8.0
C.V. %	8.2	9.3	10.1	5.0	6.9	30.7	6.7	12.8	7.2
Replications	2	3	3	3	3	3	3	3*	3
Row spacing (in.)	30	30	30	30	30	30	30	30	30

*Only one rep of yield data collected

Yield (rank)

SCN HG Type	Neoga	Manhattan	Onaga	Novelty	Rock Port	Clarkton	Portage-	Ottawa	Jackson
	IL	KS	KS	MO	MO	MO	ville	KS	TN
SCN HG Type	2.5.7	Inf	Inf	2.5.7	2.5.7	2.5.7	NI	NI	NI
Strain									
1 LD06-7620	5	1	4	3	1	6	5	7	8
2 LD07-3395bf	2	4	7	7	8	3	7	8	2
3 LD00-2817P	4	7	2	2	5	1	8	4	5
4 K15-1303	1	2	3	5	6	7	4	3	3
5 K15-1310	6	6	5	6	4	4	2	6	1
6 LD13-8769	3	3	6	1	2	8	6	2	4
7 S13-2743C	7	5	1	4	3	5	3	1	6
8 S13-10590C	8	8	8	8	7	1	1	4	7

2018 SCN Uniform Test IV

Maturity

SCN HG Type	Neoga	Manhattan	Onaga	Novelty	Rock Port	Clarkton	Portage-	Ottawa	Jackson
	IL	KS	KS	MO	MO	MO	ville	KS	TN
	2.5.7	Inf	Inf	2.5.7	2.5.7	2.5.7	NI	NI	NI
Strain									
1 LD06-7620	9/20	10/02	9/22	9/22	10/06	9/10	9/24	9/20	9/05
2 LD07-3395bf	-6	-3	0	-2	-14	1	-3	-1	-1
3 LD00-2817P	4	5	2	1	5	7	3	3	0
4 K15-1303	4	3	7	1	6	3	5	4	4
5 K15-1310	3	8	8	1	7	3	5	7	2
6 LD13-8769	1	-1	1	-1	0	-1	-5	0	0
7 S13-2743C	3	7	5	2	8	3	2	2	6
8 S13-10590C	1	8	10	2	5	8	7	8	7
Planted	5/11	5/18	5/11	5/16	5/22	5/08	5/28	5/15	5/15

Lodging (score)

SCN HG Type	Neoga	Manhattan	Onaga	Novelty	Rock Port	Clarkton	Portage-	Ottawa	Jackson
	IL	KS	KS	MO	MO	MO	ville	KS	TN
	2.5.7	Inf	Inf	2.5.7	2.5.7	2.5.7	NI	NI	NI
Strain									
1 LD06-7620	2.5	2.0	1.0	2.8	3.7	1.0	1.0	1.0	1.0
2 LD07-3395bf	2.8	2.0	1.0	1.5	2.7	1.0	1.7	1.0	1.7
3 LD00-2817P	3.0	2.0	1.0	2.7	3.7	1.0	1.7	1.0	2.0
4 K15-1303	3.5	3.0	1.3	3.8	4.3	1.0	1.7	1.0	1.7
5 K15-1310	2.8	2.0	1.0	3.2	3.0	1.0	1.0	1.0	1.7
6 LD13-8769	2.8	2.7	1.0	2.7	3.7	1.0	2.0	1.0	2.0
7 S13-2743C	2.8	2.0	1.7	3.0	3.3	1.0	1.0	1.0	1.3
8 S13-10590C	2.0	2.0	1.7	2.8	3.2	1.0	1.7	1.0	2.0

2018 SCN Uniform Test IV

Height (inches)

Strain	Height (inches)								
	Neoga	Manhattan	Onaga	Novelty	Rock Port	Clarkton	Portage-ville	Ottawa	Jackson
	IL	KS	KS	MO	MO	MO	MO	KS	TN
SCN HG Type	2.5.7	Inf	Inf	2.5.7	2.5.7	2.5.7	NI	NI	NI
1 LD06-7620	39	35	28	31	42	12	24	24	29
2 LD07-3395bf	38	33	28	29	39	15	26	22	29
3 LD00-2817P	45	40	35	35	50	16	34	27	38
4 K15-1303	44	38	31	34	45	15	29	23	33
5 K15-1310	44	36	31	33	45	17	28	24	34
6 LD13-8769	43	40	34	36	47	15	31	26	36
7 S13-2743C	48	42	33	38	49	15	33	29	39
8 S13-10590C	44	37	33	33	48	17	28	27	37

Seed Quality (score)

Strain	Seed Quality (score)								
	Neoga	Manhattan	Onaga	Novelty	Rock Port	Clarkton	Portage-ville	Ottawa	Jackson
	IL	KS	KS	MO	MO	MO	MO	KS	TN
SCN HG Type	2.5.7	Inf	Inf	2.5.7	2.5.7	2.5.7	NI	NI	NI
1 LD06-7620	2.0			2.0	3.0	5.0	3.0		2.0
2 LD07-3395bf	2.0			3.0	2.5	4.7	3.3		2.0
3 LD00-2817P	2.0			3.0	1.5	4.3	4.0		2.0
4 K15-1303	2.0			3.0	3.0	4.7	2.7		2.0
5 K15-1310	2.0			2.5	2.5	3.3	3.0		2.0
6 LD13-8769	1.0			2.5	2.5	4.3	2.3		2.0
7 S13-2743C	1.0			2.5	2.0	4.0	2.3		2.0
8 S13-10590C	2.0			2.5	1.5	4.3	3.7		2.0

Seed Weight (g/100)

Strain	Seed Weight (g/100)								
	Neoga	Manhattan	Onaga	Novelty	Rock Port	Clarkton	Portage-ville	Ottawa	Jackson
	IL	KS	KS	MO	MO	MO	MO	KS	TN
SCN HG Type	2.5.7	Inf	Inf	2.5.7	2.5.7	2.5.7	NI	NI	NI
1 LD06-7620	13.4			13.9	14.7	12.4	14.2		13.0
2 LD07-3395bf	14.8			14.5	14.3	12.9	14.5		15.7
3 LD00-2817P	13.5			12.8	14.5	11.0	10.9		11.7
4 K15-1303	16.6			14.8	16.1	13.7	15.8		15.7
5 K15-1310	14.4			15.3	15.8	12.5	14.0		14.2
6 LD13-8769	12.3			14.2	13.9	10.8	11.5		12.2
7 S13-2743C	11.9			12.3	15.3	12.4	12.2		12.2
8 S13-10590C	13.9			15.2	16.7	13.4	14.8		14.6

2018 SCN Uniform Test IV

Protein (%)

SCN HG Type	Neoga	Manhattan	Onaga	Novelty	Rock Port	Clarkton	Portage-	Ottawa	Jackson
	IL	KS	KS	MO	MO	MO	ville	KS	TN
SCN HG Type	2.5.7	Inf	Inf	2.5.7	2.5.7	2.5.7	NI	NI	NI
Strain									
1 LD06-7620	34.3				34.5		35.1		34.4
2 LD07-3395bf	33.1				34.2		32.3		32.6
3 LD00-2817P	34.1				34.6		32.6		32.2
4 K15-1303	36.0				35.3		35.0		34.2
5 K15-1310	35.3				35.2		34.9		34.4
6 LD13-8769	34.9				35.7		33.7		32.9
7 S13-2743C	34.6				35.3		32.5		33.4
8 S13-10590C	35.5				36.3		35.8		34.6

Oil (%)

SCN HG Type	Neoga	Manhattan	Onaga	Novelty	Rock Port	Clarkton	Portage-	Ottawa	Jackson
	IL	KS	KS	MO	MO	MO	ville	KS	TN
SCN HG Type	2.5.7	Inf	Inf	2.5.7	2.5.7	2.5.7	NI	NI	NI
Strain									
1 LD06-7620	17.5				17.6		17.0		17.3
2 LD07-3395bf	18.3				19.1		18.9		18.5
3 LD00-2817P	16.9				18.9		18.3		18.0
4 K15-1303	16.5				17.3		17.2		17.0
5 K15-1310	16.7				17.9		17.3		17.2
6 LD13-8769	17.3				17.5		17.8		18.4
7 S13-2743C	17.4				18.0		18.7		18.7
8 S13-10590C	17.1				18.0		17.3		17.9