

2016 SCN PRELIM TEST IV

Strain	FPhlm	Parentage	Gen. Comp.	SCN res source	Traits
1 LD06-7620	PLtbl	IA3023 x LD00-3309	F5	PI 88788	
2 LD07-3395bf	WGbf	LD07-3395 RESELECTION	F5	PI 88788,437654	
3 LD00-2817P	PGibl	Ina x Dwight	F5	PI 88788,437654	
4 AR15-358031	PGibl	JTN-5203 x IAR1902 SCN	F3	Peking	
5 K14-1094	WLtbl	K07-1633 x LD04-13265	F4	PI 88788	
6 K14-1140	PLtbl	LD04-13265 x K07-1633	F4	PI 88788	
7 K14-1141	WLtbl	LD04-13265 x K07-1633	F4	PI 88788	
8 K14-1153	WLtbl	LD04-13265 x K07-1633	F4	PI 88788	
9 K14-1263	PLtbl	LG06-5920 x 435.TCS	F4	PI 88788	
10 K14-1266	PTbl	LG06-5920 x 435.TCS	F4	PI 88788	STS
11 K14-1267	PLtbl	LG06-5920 x 435.TCS	F4	PI 88788	STS
12 K14-1277	PLtbl	LG06-5920 x 435.TCS	F4	PI 88788	
13 K14-1404	P+WTbl	LS07-3125 x 435.TCS	F4	PI 88788	STS
14 K14-1405	P+WTbl	LS07-3125 x 435.TCS	F4	PI 88788	STS
15 LD13-3673	WTbl	BN0800009 x CL05-32415	F5	PI 88788	
16 LD13-7015	PLtbl	LD07-3395 x LS05-0202	F5	PI 88788,437654	
17 LD13-7022	PLtbl	LD07-3395 x LS05-0202	F5	PI 88788,437654	
18 LD13-8466	WTbl	U05-226055 x (LD00-2817(5) x LDX01-1-65)	F5	PI 88788,437654,468916	scn soja
19 LD13-8769	PGibl	LD06-7596 x (LD00-3309(5) x LD07-5065)	F5	PI 88788	scn soja
20 SIU13-0012	WGbf	LS03-4294 x LS05-3229			

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Entry	IL SCN screening			
	HG 0		HG 2.5.7	
	Fl	rating	Fl	rating
1 LD06-7620	17	R	62	NR
2 LD07-3395bf	1	HR	32	MR
3 LD00-2817P	1	HR	2	HR
4 AR15-358031	1	HR	2	HR
5 K14-1094	6	HR	70	NR
6 K14-1140	9	HR	63	NR
7 K14-1141	12	R	75	NR
8 K14-1153	10	R	54	NR
9 K14-1263	9	HR	74	NR
10 K14-1266	9	HR	50	LR
11 K14-1267	5	HR	56	LR
12 K14-1277	6	HR	63	NR
13 K14-1404	9	HR	77	NR
14 K14-1405	11	R	65	NR
15 LD13-3673	10	R	74	NR
16 LD13-7015	1	HR	25	MR
17 LD13-7022	18	R	62	NR
18 LD13-8466	16	R	36	MR
19 LD13-8769	2	HR	43	LR
20 SIU13-0012	23	R	52	LR

** rep data too variable to rate

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2016 Summary

Entry	Yield								Maturity date	Lodging score	Height in.	Seed			
	All		Infested		Non-infested		quality score	weight g/100				protein @13%	oil @13%		
	bu/a	rank	bu/a	rank	bu/a	rank									
	Locations	8*		6*		2		9	9	9	8	8	5	5	
1 LD06-7620		69.4	4	69.6	2	68.6	10	9/26	2.2	37	2.3	14.8	34.5	19.4	
2 LD07-3395bf		70.6	1	69.5	3	74.0	2	-1	2.1	35	2.5	15.7	33.4	20.5	
3 LD00-2817P		66.6	12	65.9	12	70.0	8	2	2.4	43	2.3	13.8	33.2	20.9	
4 AR15-358031		57.7	19	60.8	19	48.3	19	-6	2.5	39	2.6	15.2	36.0	20.2	
5 K14-1094		69.0	6	67.4	7	73.7	4	1	1.7	39	1.9	14.0	32.2	20.8	
6 K14-1140		68.5	8	68.0	6	70.0	8	-1	1.8	40	2.0	14.3	34.9	19.9	
7 K14-1141		66.3	13	66.5	10	65.5	17	-4	1.6	41	2.1	15.4	33.9	20.4	
8 K14-1153		69.1	5	67.3	8	74.3	1	0	2.0	39	2.2	14.6	34.1	20.2	
9 K14-1263		64.1	17	63.0	16	67.6	13	3	2.2	44	2.0	15.2	35.0	19.7	
10 K14-1266		64.4	15	63.3	15	67.7	12	1	2.4	41	2.2	15.8	35.9	20.0	
11 K14-1267		64.4	15	62.4	17	70.5	7	5	2.7	46	2.5	15.2	35.4	19.9	
12 K14-1277		67.4	10	65.6	13	72.7	5	1	2.1	41	2.4	14.8	35.0	19.4	
13 K14-1404		67.7	9	66.5	10	71.3	6	1	1.4	38	2.0	15.0	34.3	20.3	
14 K14-1405		68.6	7	68.7	4	68.3	11	1	1.8	40	2.0	16.6	35.2	20.2	
15 LD13-3673		66.9	11	67.3	8	66.0	16	0	1.6	36	2.1	16.1	35.1	19.8	
16 LD13-7015		65.0	14	64.1	14	67.6	13	0	1.6	39	2.3	14.9	33.4	20.4	
17 LD13-7022		69.7	3	68.4	5	73.7	3	0	2.8	39	2.3	16.8	34.3	20.4	
18 LD13-8466		63.1	18	61.9	18	66.6	15	2	2.7	39	1.9	15.4	35.2	20.6	
19 LD13-8769		70.1	2	72.0	1	64.6	18	0	2.3	40	2.1	14.2	34.0	20.1	
20 SIU13-0012		44.8	20	46.4	20	40.2	20	12	1.9	33	1.9	13.6	35.9	19.4	
Mean		65.7		65.2		67.0		27.2	2.1	39.4	2.2	15.1	34.5	20.1	
LSD(.05)		3.0		3.8		4.7		1.1	0.3	1.5					
C.V. %		6.6		7.2		4.9		6.2	21.5	6.0					
Replications		16		12		4		18	18	18					

* Clarkton, MO not included due to high CV.

2016 SCN PRELIM TEST IV

Yield (rank)

Strain	Carbondale	Neoga	Urbana	Manhattan	Clarkton	Novelty	Jackson	Onaga	Ottawa
	IL	IL	IL	KS	MO	MO	TN	KS	KS
	SCN HG Type I	2.5.7	2.5.7	I	2.5.7	2.5.7	1.2.5.7	NI	NI
1 LD06-7620	9	7	9	2	6	5	13	8	16
2 LD07-3395bf	12	2	1	1	3	12	9	3	4
3 LD00-2817P	6	4	12	14	1	13	2	12	6
4 AR15-358031	20	11	19	20	14	8	19	20	19
5 K14-1094	13	5	6	9	13	11	4	5	3
6 K14-1140	5	8	18	10	4	6	7	13	5
7 K14-1141	10	18	7	13	9	9	16	17	14
8 K14-1153	17	9	1	3	5	4	14	4	2
9 K14-1263	19	17	10	17	18	15	12	10	13
10 K14-1266	14	3	14	19	2	18	1	10	12
11 K14-1267	18	13	17	12	10	16	8	18	1
12 K14-1277	16	14	15	16	17	3	5	2	10
13 K14-1404	8	6	4	6	11	14	17	7	9
14 K14-1405	3	16	3	11	15	10	10	6	17
15 LD13-3673	1	10	13	18	7	7	15	14	15
16 LD13-7015	2	12	16	4	16	17	18	15	8
17 LD13-7022	4	15	8	7	19	2	11	1	7
18 LD13-8466	11	19	11	15	12	19	6	16	11
19 LD13-8769	7	1	5	8	20	1	3	9	18
20 SIU13-0012	15	20	20	5	8	20	.	19	20

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Maturity

	Carbondale	Neoga	Urbana	Manhattan	Clarkton	Novelty	Jackson	Onaga	Ottawa
	IL	IL	IL	KS	MO	MO	TN	KS	KS
SCN HG Type	I	2.5.7	2.5.7	I	2.5.7	2.5.7	1.2.5.7	NI	NI
Strain									
1 LD06-7620	10/05	9/29	9/30	10/2	9/11	9/29	9/19	9/26	9/30
2 LD07-3395bf	0	-2	-6	-3	5	-3	-5	-2	-2
3 LD00-2817P	1	3	1	-1	10	-1	-1	2	2
4 AR15-358031	-2	-9	-12	-5	-3	-3	-7	-12	-9
5 K14-1094	-1	0	2	1	2	-1	1	3	3
6 K14-1140	-1	-3	-5	-1	5	-2	-3	-2	-1
7 K14-1141	-3	-7	-5	-4	-2	-2	-3	-4	-5
8 K14-1153	0	-2	-2	1	5	-3	1	1	-1
9 K14-1263	2	3	2	3	5	2	3	6	3
10 K14-1266	0	-1	1	-2	7	-2	1	1	0
11 K14-1267	4	4	7	4	8	1	4	8	5
12 K14-1277	-2	-1	0	2	1	-1	-1	3	1
13 K14-1404	2	0	-1	1	6	-3	1	1	0
14 K14-1405	-1	0	1	1	3	-3	1	1	1
15 LD13-3673	1	-1	-1	-3	4	-1	1	0	-3
16 LD13-7015	0	-1	-4	1	-1	-2	-1	4	-1
17 LD13-7022	3	-1	-3	-2	0	-1	-1	1	-1
18 LD13-8466	4	2	2	2	7	-3	1	6	1
19 LD13-8769	1	-2	-2	-1	-2	0	-1	1	-1
20 SIU13-0012	9	15	12	13	18	8	.	15	8
Planted	6/10	5/25	5/21	6/2	5/13	5/24	5/19	5/10	6/6

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Lodging (score)

	Carbondale	Neoga	Urbana	Manhattan	Clarkton	Novelty	Jackson	Onaga	Ottawa
	IL	IL	IL	KS	MO	MO	TN	KS	KS
SCN HG Type	I	2.5.7	2.5.7	I	2.5.7	2.5.7	1.2.5.7	NI	NI
Strain									
1 LD06-7620	3.0	2.5	2.5	3.0	1.0	2.8	1.5	2.0	1.5
2 LD07-3395bf	3.0	2.8	3.3	2.0	1.0	3.0	2.5	1.0	1.5
3 LD00-2817P	4.0	2.5	2.8	3.0	1.0	2.5	2.0	2.0	2.0
4 AR15-358031	3.0	3.3	3.0	4.0	1.0	2.8	2.5	1.0	3.0
5 K14-1094	3.0	1.5	2.0	2.0	1.0	2.3	1.5	1.0	1.5
6 K14-1140	2.0	1.0	2.0	2.0	1.0	2.8	1.5	1.5	1.0
7 K14-1141	2.0	1.3	1.8	2.0	1.0	2.3	2.0	2.0	1.0
8 K14-1153	4.0	1.5	2.5	2.5	1.0	2.8	2.0	1.5	1.0
9 K14-1263	3.0	2.3	2.3	3.0	1.0	2.8	2.0	2.0	2.0
10 K14-1266	5.0	2.3	3.0	3.0	1.0	2.8	2.5	1.5	1.5
11 K14-1267	5.0	2.5	2.8	3.0	1.0	3.0	3.0	2.5	2.5
12 K14-1277	3.0	2.0	2.5	2.5	1.0	2.8	2.0	2.0	2.0
13 K14-1404	2.0	1.3	1.8	1.5	1.0	2.0	2.0	1.0	1.0
14 K14-1405	3.0	1.5	2.5	2.0	1.0	2.5	1.5	1.0	1.0
15 LD13-3673	2.0	1.0	2.3	2.0	1.0	2.5	1.0	1.0	1.0
16 LD13-7015	2.0	1.8	2.3	1.5	1.0	2.5	1.0	1.0	1.0
17 LD13-7022	4.0	3.0	2.8	4.0	1.0	3.0	2.0	3.0	2.0
18 LD13-8466	4.0	3.5	3.5	3.0	1.0	3.0	3.0	2.0	2.0
19 LD13-8769	4.0	1.8	2.8	3.0	1.0	2.8	2.5	2.0	2.0
20 SIU13-0012	3.0	1.5	2.8	2.0	1.0	3.0	.	1.0	1.0

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Height (inches)

	Carbondale	Neoga	Urbana	Manhattan	Clarkton	Novelty	Jackson	Onaga	Ottawa
	IL	IL	IL	KS	MO	MO	TN	KS	KS
SCN HG Type	I	2.5.7	2.5.7	I	2.5.7	2.5.7	1.2.5.7	NI	NI
Strain									
1 LD06-7620	34	36	43	45	26	39	34	39	35
2 LD07-3395bf	32	35	40	41	25	38	32	37	35
3 LD00-2817P	41	43	48	52	33	44	41	46	44
4 AR15-358031	34	41	46	45	27	44	33	38	42
5 K14-1094	37	39	43	43	26	44	36	44	40
6 K14-1140	37	38	45	46	29	44	35	42	41
7 K14-1141	38	39	46	47	31	46	36	43	42
8 K14-1153	35	37	46	45	29	45	36	41	40
9 K14-1263	38	44	54	49	27	48	44	50	46
10 K14-1266	40	39	48	48	29	41	40	41	41
11 K14-1267	43	47	56	53	30	52	45	50	49
12 K14-1277	37	41	45	49	26	45	41	45	40
13 K14-1404	36	38	44	46	25	41	38	40	40
14 K14-1405	38	39	47	47	26	44	36	40	39
15 LD13-3673	34	36	40	41	26	42	31	37	35
16 LD13-7015	37	39	44	45	25	44	35	44	41
17 LD13-7022	38	38	47	46	22	42	39	44	39
18 LD13-8466	35	38	45	43	28	45	36	42	40
19 LD13-8769	40	41	48	48	23	43	39	40	40
20 SIU13-0012	33	34	37	38	18	42	.	34	28

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Seed Quality (score)

	Carbondale	Neoga	Urbana	Manhattan	Clarkton	Novelty	Jackson	Onaga	Ottawa
	IL	IL	IL	KS	MO	MO	TN	KS	KS
SCN HG Type	I	2.5.7	2.5.7	I	2.5.7	2.5.7	1.2.5.7	NI	NI
Strain									
1 LD06-7620		2.0	2.0	2.0	1.5	1.5	3.0	3.0	3.0
2 LD07-3395bf		2.0	2.0	3.0	2.5	1.5	3.0	3.0	3.0
3 LD00-2817P		2.0	2.0	3.0	2.5	1.5	2.0	3.0	2.0
4 AR15-358031		2.0	2.0	3.0	2.5	2.0	3.5	3.0	3.0
5 K14-1094		2.0	2.0	2.0	1.0	1.5	2.0	3.0	2.0
6 K14-1140		2.0	2.0	2.0	1.5	1.5	2.0	3.0	2.0
7 K14-1141		2.0	2.0	2.0	2.0	1.5	2.5	3.0	2.0
8 K14-1153		2.0	2.0	3.0	1.5	1.5	2.5	3.0	2.0
9 K14-1263		2.0	2.0	2.0	1.5	1.5	2.0	3.0	2.0
10 K14-1266		2.0	2.0	3.0	1.5	1.8	2.0	3.0	2.0
11 K14-1267		2.0	2.0	3.0	2.0	1.5	2.5	4.0	3.0
12 K14-1277		2.0	2.0	3.0	1.5	2.3	2.5	3.0	3.0
13 K14-1404		2.0	2.0	2.0	1.5	1.5	2.0	3.0	2.0
14 K14-1405		2.0	2.0	2.0	1.5	1.5	2.0	3.0	2.0
15 LD13-3673		1.0	1.0	3.0	2.0	1.5	2.0	3.0	3.0
16 LD13-7015		2.0	2.0	3.0	1.5	1.5	2.0	3.0	3.0
17 LD13-7022		2.0	2.0	3.0	2.0	1.5	2.5	3.0	2.0
18 LD13-8466		1.0	2.0	2.0	2.0	1.5	2.5	2.0	2.0
19 LD13-8769		1.0	2.0	3.0	2.0	1.5	2.0	3.0	2.0
20 SIU13-0012		2.0	2.0	2.0	1.5	1.5	.	2.0	2.0

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Seed Weight (g/100)

	Carbondale	Neoga	Urbana	Manhattan	Clarkton	Novelty	Jackson	Onaga	Ottawa
	IL	IL	IL	KS	MO	MO	TN	KS	KS
SCN HG Type	I	2.5.7	2.5.7	I	2.5.7	2.5.7	1.2.5.7	NI	NI
Strain									
1 LD06-7620		15.3	15.7	16.2	12.0	14.9	13.5	14.8	15.6
2 LD07-3395bf		15.5	16.0	17.8	12.3	15.9	15.1	14.9	17.7
3 LD00-2817P		14.3	14.2	16.2	11.3	13.1	12.7	13.6	15.0
4 AR15-358031		15.9	16.4	17.9	10.9	15.6	15.1	13.5	16.2
5 K14-1094		12.6	14.0	16.3	10.2	14.7	14.0	14.6	15.7
6 K14-1140		15.8	16.9	14.8	10.8	15.2	13.7	13.2	14.3
7 K14-1141		16.0	15.0	17.4	11.4	16.9	14.9	14.1	17.6
8 K14-1153		14.6	16.2	16.4	11.2	15.0	13.7	13.2	16.6
9 K14-1263		17.6	19.4	15.8	10.7	15.8	12.8	13.5	15.8
10 K14-1266		16.0	16.5	17.3	14.2	16.3	15.5	14.0	16.8
11 K14-1267		15.5	16.2	17.1	11.9	15.0	14.7	14.3	16.8
12 K14-1277		14.8	15.2	15.8	11.2	15.9	15.4	14.4	15.9
13 K14-1404		17.7	17.7	15.7	11.4	14.6	13.9	13.2	15.6
14 K14-1405		18.3	19.3	17.8	12.8	15.2	15.8	16.1	17.1
15 LD13-3673		13.6	14.2	18.8	13.8	18.3	16.0	16.5	17.5
16 LD13-7015		17.7	18.0	16.4	10.5	14.5	12.6	12.9	16.3
17 LD13-7022		15.6	17.6	19.9	12.3	18.0	16.3	16.5	18.5
18 LD13-8466		14.9	16.0	18.2	13.0	13.9	15.6	15.4	16.2
19 LD13-8769		13.2	15.4	16.8	9.4	15.8	13.7	14.1	14.9
20 SIU13-0012		14.6	14.7	15.1	12.5	11.6	.	12.8	14.1

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Protein (%)

	Carbondale	Neoga	Urbana	Manhattan	Clarkton	Novelty	Jackson	Onaga	Ottawa
	IL	IL	IL	KS	MO	MO	TN	KS	KS
SCN HG Type	I	2.5.7	2.5.7	I	2.5.7	2.5.7	1.2.5.7	NI	NI
Strain									
1 LD06-7620		35.8	34.7		35.4	33.2	33.4		
2 LD07-3395bf		32.6	33.0		33.8	33.8	33.5		
3 LD00-2817P		32.2	33.4		34.7	31.7	34.0		
4 AR15-358031		36.3	35.4		35.3	35.4	37.4		
5 K14-1094		34.4	33.0		30.6	32.2	30.8		
6 K14-1140		34.5	33.9		35.5	34.6	36.1		
7 K14-1141		35.0	34.1		32.5	33.4	34.5		
8 K14-1153		33.5	33.8		34.6	33.5	35.1		
9 K14-1263		35.5	35.6		34.0	35.1	34.7		
10 K14-1266		35.6	36.8		37.1	35.3	34.7		
11 K14-1267		35.9	36.2		35.2	34.5	35.2		
12 K14-1277		34.9	34.6		34.6	35.2	35.5		
13 K14-1404		34.0	34.3		34.4	33.2	35.3		
14 K14-1405		36.5	35.4		35.2	34.1	34.9		
15 LD13-3673		36.9	34.1		34.0	35.9	34.6		
16 LD13-7015		32.7	33.2		33.3	33.5	34.4		
17 LD13-7022		35.6	34.3		32.2	34.9	34.4		
18 LD13-8466		35.1	34.0		36.1	35.7	35.3		
19 LD13-8769		34.7	34.4		32.4	33.9	34.5		
20 SIU13-0012		36.0	36.0		36.0	35.6	.		

2016 SCN PRELIM TEST IV

Oil (%)

	Carbondale	Neoga	Urbana	Manhattan	Clarkton	Novelty	Jackson	Onaga	Ottawa
	IL	IL	IL	KS	MO	MO	TN	KS	KS
SCN HG Type	I	2.5.7	2.5.7	I	2.5.7	2.5.7	1.2.5.7	NI	NI
Strain									
1 LD06-7620		19.4	19.1		20.2	18.8	19.6		
2 LD07-3395bf		20.5	20.3		20.8	19.8	21.1		
3 LD00-2817P		21.7	19.8		21.2	20.4	21.3		
4 AR15-358031		20.5	20.6		20.3	19.6	20.1		
5 K14-1094		19.6	19.4		22.6	19.7	22.5		
6 K14-1140		19.8	19.5		20.6	19.4	20.0		
7 K14-1141		19.7	20.6		21.7	19.4	20.8		
8 K14-1153		21.5	19.1		20.7	19.4	20.4		
9 K14-1263		20.0	19.2		20.7	18.9	19.8		
10 K14-1266		20.2	18.7		20.6	20.1	20.2		
11 K14-1267		20.2	19.0		20.9	19.4	20.1		
12 K14-1277		19.1	19.0		20.2	18.6	20.0		
13 K14-1404		20.5	19.0		21.0	20.2	20.6		
14 K14-1405		20.2	19.3		21.3	19.3	20.8		
15 LD13-3673		19.3	19.5		21.0	18.9	20.2		
16 LD13-7015		20.4	20.0		21.1	20.2	20.2		
17 LD13-7022		19.8	19.7		22.3	19.1	21.4		
18 LD13-8466		19.8	20.7		21.1	20.1	21.3		
19 LD13-8769		19.9	20.3		21.1	19.4	19.9		
20 SIU13-0012		18.7	18.7		21.4	18.9	.		