

2016 SCN Uniform Test IV

Strain	FPhIm	Parentage	Previous testing	Gen. Comp.	SCN res source	Traits
1 LD06-7620	PLtbl	IA3023 x LD00- 3309	5	F5	PI 88788	
2 LD07-3395bf	WGbf	LD07-3395 RESELECTION	3	F5	PI 88788,437654	
3 LD00-2817P	PGibl	Ina x Dwight	8	F5	PI 88788,437654	
4 K11-2363	PLtbl	435.TCS x LD05-30578a	2	F4	PI 88788	
5 K13-1515	PLtbl	LG06-5920 x LD04-13265	1	F4	PI 88788	STS
6 K13-1615	PGibl	LS07-3125 x 435.TCS	1	F4	PI 88788	STS
7 LD12-8677	WTtbl	LD04-11056W x Shillinger 435.TCS	1	F5	PI 88788	STS
8 LD12-10534	WLtbl	LG04-6000 x (LD00-3309(5) x LD07-5065)	15 UTP IV	F5	PI 88788	

Entry	IL SCN screening				SIU SDS	SIU SDS	SIU FLS
	HG 0		HG 2.5.7		Shawneetown	Valmeyer	Shawneetown
	FI	rating	FI	rating	DX	DX	severity
1 LD06-7620	17	R	62	NR	2.5	22.2	8.0
2 LD07-3395bf	1	HR	32	MR	0.1	0.0	8.0
3 LD00-2817P	1	HR	2	HR	11.1	0.0	7.5
4 K11-2363	20	R	62	NR	1.9	0.0	7.0
5 K13-1515	10	R	62	NR	8.3	22.2	6.5
6 K13-1615	20	R	93	NR	5.0	1.7	0.0
7 LD12-8677	6	HR	54	LR	0.1	.	8.0
8 LD12-10534	61	NR	52	LR	6.1	0.0	6.0

** rep data too variable to rate

Spencer(sus)	50.0	1.7	8.0
CM 497 (sus)	18.3	72.2	8.0
Ripley (res)	0.0	0.0	1.0
LSD	13.0	26.5	1.7

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2016 Summary

Entry	Locations	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							
		10		7		3		10	10	10	9	9	5	5
1 LD06-7620		63.9	3	61.2	3	69.7	3	9/27	2.2	37	2.2	15.0	35.1	19.3
2 LD07-3395bf		66.3	1	64.2	1	70.8	2	-1	2.3	34	2.7	15.5	32.6	20.6
3 LD00-2817P		62.7	5	61.1	4	66.2	6	2	2.5	43	2.6	13.6	33.2	20.3
4 K11-2363		64.4	2	62.4	2	68.9	4	0	1.4	34	2.2	16.3	34.4	20.4
5 K13-1515		59.2	7	57.1	8	63.7	7	4	3.5	42	2.5	15.0	33.3	20.9
6 K13-1615		62.6	6	60.2	5	67.9	5	0	2.0	39	2.1	14.8	34.5	20.6
7 LD12-8677		59.2	7	57.9	7	62.2	8	-2	2.4	39	2.3	16.3	34.6	21.2
8 LD12-10534		63.8	4	60.2	5	72.1	1	0	2.1	37	2.2	14.7	33.2	20.3
Mean		62.8		60.5		67.7		27.7	2.3	38.1	2.4	15.2	33.9	20.4
LSD(.05)		2.7		3.6		3.6		1.0	0.2	1.2				
C.V. %		8.4		9.6		5.7		6.8	20.9	6.1				
Replications		28		19		9		28	28	28				

2 year summary

Entry	Locations	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							
		19		12		7		18	19	19	17	17	10	10
1 LD06-7620		60.0	4	58.8	2	62.2	4	9/25	1.8	33	2.4	14.4	34.6	19.3
2 LD07-3395bf		60.4	3	59.3	1	62.4	3	-1	1.9	32	2.6	15.1	32.8	20.5
3 LD00-2817P		59.7	5	58.3	3	62.1	5	3	2.2	39	2.6	13.2	33.4	20.1
4 K11-2363		60.6	1	58.2	4	64.7	2	2	1.6	31	2.2	15.9	34.0	20.0
5 K13-1515		58.4	7	56.6	7	61.5	6	5	3.0	39	2.5	14.4	33.3	20.4
6 K13-1615		60.6	1	57.8	6	65.3	1	2	1.8	36	2.2	14.2	34.6	20.3
7 LD12-8677		59.4	6	58.1	5	61.5	6	-1	2.1	36	2.4	15.9	35.0	20.8

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Yield (bu/a)

SCN HG Type	Carbondale	Neoga	Urbana	Manhattan	Clarkton	Rock Port	Jackson	Portage-	Onaga	Ottawa
	IL	IL	IL	KS	MO	MO	TN	ville	KS	KS
	I	2.5.7	2.5.7	I	2.5.7	2.5.7	1.2.5.7	NI	NI	NI
Strain										
1 LD06-7620	48.4	70.3	78.8	69.8	24.1	86.2	52.7	60.9	72.4	76.0
2 LD07-3395bf	48.8	74.5	84.8	72.5	23.9	82.6	65.5	63.7	72.0	76.8
3 LD00-2817P	50.3	72.1	77.1	66.2	31.5	76.8	56.2	62.5	63.6	72.7
4 K11-2363	46.2	67.2	73.9	71.9	26.2	89.3	64.7	63.8	69.7	73.2
5 K13-1515	36.4	67.2	69.8	65.7	14.3	80.0	69.4	58.4	62.6	70.1
6 K13-1615	48.4	67.1	80.1	69.7	14.5	83.3	61.4	65.4	67.2	71.2
7 LD12-8677	63.2	63.5	70.2	58.7	21.4	78.1	52.8	59.9	65.4	61.3
8 LD12-10534	54.6	64.3	76.7	70.6	12.2	83.7	61.8	68.7	72.5	75.2
Average	49.6	68.3	76.4	68.1	21.0	82.5	60.6	62.9	67.8	72.0
LSD(2-sided,.05)	12.8	7.6	10.5	4.4	12.4	6.5	7.8	10.9	6.6	4.9
C.V. %	19.3	5.4	6.8	3.9	27.6	4.5	7.3	8.1	5.6	4.0
Replications	3	2	2	3	3	3	3	3	3	3
Row spacing (in.)	30	30	30	30	30	30	30	30	30	30

Yield (rank)

SCN HG Type	Carbondale	Neoga	Urbana	Manhattan	Clarkton	Rock Port	Jackson	Portage-	Onaga	Ottawa
	IL	IL	IL	KS	MO	MO	TN	ville	KS	KS
	I	2.5.7	2.5.7	I	2.5.7	2.5.7	1.2.5.7	NI	NI	NI
Strain										
1 LD06-7620	5	3	3	4	3	2	8	6	2	2
2 LD07-3395bf	4	1	1	1	4	5	2	4	3	1
3 LD00-2817P	3	2	4	6	1	8	6	5	7	5
4 K11-2363	7	4	6	2	2	1	3	3	4	4
5 K13-1515	8	5	8	7	7	6	1	8	8	7
6 K13-1615	6	6	2	5	6	4	5	2	5	6
7 LD12-8677	1	8	7	8	5	7	7	7	6	8
8 LD12-10534	2	7	5	3	8	3	4	1	1	3

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Maturity

SCN HG Type	Carbondale	Neoga	Urbana	Manhattan	Clarkton	Rock Port	Jackson	Portage-	Onaga	Ottawa
	IL	IL	IL	KS	MO	MO	TN	ville	KS	KS
	I	2.5.7	2.5.7	I	2.5.7	2.5.7	1.2.5.7	NI	NI	NI
Strain										
1 LD06-7620	10/06	9/29	9/30	10/1	9/12	10/16	9/18	9/16	9/25	9/28
2 LD07-3395bf	0	-2	-4	-2	4	-6	2	-3	-2	0
3 LD00-2817P	-1	3	1	2	9	-1	3	2	3	3
4 K11-2363	0	-1	-1	0	6	-5	2	1	2	1
5 K13-1515	1	2	4	4	6	0	4	2	9	5
6 K13-1615	1	1	-1	0	0	-5	3	1	3	3
7 LD12-8677	-2	-4	-3	1	1	-8	0	-2	-1	0
8 LD12-10534	2	-2	0	3	-2	-1	2	-2	1	3
Planted	6/10	5/25	5/21	6/2	5/13	6/2	5/19	5/9	5/10	6/6

Lodging (score)

SCN HG Type	Carbondale	Neoga	Urbana	Manhattan	Clarkton	Rock Port	Jackson	Portage-	Onaga	Ottawa
	IL	IL	IL	KS	MO	MO	TN	ville	KS	KS
	I	2.5.7	2.5.7	I	2.5.7	2.5.7	1.2.5.7	NI	NI	NI
Strain										
1 LD06-7620	2.0	2.5	2.5	3.0	1.0	2.8	2.0	2.7	1.7	1.3
2 LD07-3395bf	2.0	2.8	3.3	3.3	1.0	1.8	1.7	3.0	1.0	2.7
3 LD00-2817P	3.0	2.5	2.8	3.0	1.0	2.5	2.0	3.3	1.7	3.0
4 K11-2363	1.0	1.0	1.8	1.7	1.0	1.5	1.7	2.7	1.0	1.0
5 K13-1515	5.0	3.5	3.8	4.0	1.0	3.5	3.7	4.0	3.7	3.7
6 K13-1615	3.0	1.5	2.3	2.7	1.0	1.5	2.0	2.7	1.7	1.7
7 LD12-8677	2.0	2.5	3.0	3.7	1.0	2.3	1.3	3.0	2.0	3.0
8 LD12-10534	3.0	2.0	2.8	2.3	1.0	3.0	1.3	2.7	1.7	1.7

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Height (inches)

Strain	Height (inches)									
	Carbondale	Neoga	Urbana	Manhattan	Clarkton	Rock Port	Jackson	Portage-ville	Onaga	Ottawa
	IL	IL	IL	KS	MO	MO	TN	MO	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	NI
1 LD06-7620	36	36	43	44	26	44	28	36	39	36
2 LD07-3395bf	33	35	40	42	24	39	30	33	34	36
3 LD00-2817P	39	43	48	50	34	48	36	43	46	45
4 K11-2363	30	32	39	39	26	38	29	37	35	35
5 K13-1515	37	41	50	49	28	46	40	41	43	45
6 K13-1615	38	37	46	46	26	45	33	37	41	39
7 LD12-8677	36	38	46	43	29	47	32	40	38	40
8 LD12-10534	36	34	42	44	23	45	32	37	40	39

Seed Quality (score)

Strain	Seed Quality (score)									
	Carbondale	Neoga	Urbana	Manhattan	Clarkton	Rock Port	Jackson	Portage-ville	Onaga	Ottawa
	IL	IL	IL	KS	MO	MO	TN	MO	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	NI
1 LD06-7620		2.0	2.0	3.0	1.3	1.8	2.3	2.7	3.0	2.0
2 LD07-3395bf		2.0	2.0	3.0	3.7	2.5	2.0	2.7	3.0	3.0
3 LD00-2817P		2.0	2.0	3.0	3.0	2.0	2.7	3.0	3.0	3.0
4 K11-2363		2.0	2.0	3.0	1.7	2.7	2.0	1.7	3.0	2.0
5 K13-1515		2.0	2.0	3.0	2.7	3.3	2.0	2.7	3.0	2.0
6 K13-1615		2.0	2.0	2.0	2.3	1.7	2.0	2.0	3.0	2.0
7 LD12-8677		2.0	2.0	3.0	2.0	1.7	2.0	2.3	3.0	3.0
8 LD12-10534		2.0	2.0	2.0	2.3	2.2	2.0	2.0	3.0	2.0

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Seed Weight (g/100)

Strain	SCN HG Type	Carbondale	Neoga	Urbana	Manhattan	Clarkton	Rock Port	Jackson	Portage-ville	Onaga	Ottawa
		IL	IL	IL	KS	MO	MO	TN	MO	KS	KS
		I	2.5.7	2.5.7	I	2.5.7	2.5.7	1.2.5.7	NI	NI	NI
1 LD06-7620			15.3	15.7	17.1	11.6	15.9	13.9	13.7	15.3	16.3
2 LD07-3395bf			15.5	16.0	17.9	11.9	16.6	14.9	13.3	15.1	18.7
3 LD00-2817P			14.3	14.2	16.6	10.8	14.6	12.4	11.0	13.4	14.7
4 K11-2363			16.6	18.0	19.2	12.5	17.8	15.4	14.0	15.4	17.6
5 K13-1515			15.8	16.3	17.5	12.1	16.2	14.5	12.3	13.9	16.5
6 K13-1615			14.8	16.2	17.1	11.2	16.2	14.3	12.3	15.5	16.0
7 LD12-8677			16.9	17.6	19.9	11.8	18.4	15.3	13.5	16.0	17.3
8 LD12-10534			14.3	15.7	17.2	10.2	17.2	13.7	12.6	14.2	17.5

Protein (%)

Strain	SCN HG Type	Carbondale	Neoga	Urbana	Manhattan	Clarkton	Rock Port	Jackson	Portage-ville	Onaga	Ottawa
		IL	IL	IL	KS	MO	MO	TN	MO	KS	KS
		I	2.5.7	2.5.7	I	2.5.7	2.5.7	1.2.5.7	NI	NI	NI
1 LD06-7620			35.8	34.7		34.5	35.0	35.3			
2 LD07-3395bf			32.6	33.0		33.7	32.1	31.5			
3 LD00-2817P			32.2	33.4		33.8	33.5	33.2			
4 K11-2363			34.8	35.1		34.1	34.9	33.3			
5 K13-1515			34.3	32.6		33.3	33.2	33.0			
6 K13-1615			34.9	34.4		35.2	34.1	34.0			
7 LD12-8677			34.9	35.8		35.5	33.7	33.3			
8 LD12-10534			34.1	33.6		34.4	31.0	32.9			

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Oil (%)

	Carbondale	Neoga	Urbana	Manhattan	Clarkton	Rock Port	Jackson	Portage- ville	Onaga	Ottawa
	IL	IL	IL	KS	MO	MO	TN	MO	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	NI
Strain										
1 LD06-7620		19.4	19.1		20.7	18.0	19.1			
2 LD07-3395bf		20.5	20.3		20.9	19.9	21.3			
3 LD00-2817P		21.7	19.8		21.2	19.1	19.8			
4 K11-2363		21.0	18.9		21.8	18.3	21.8			
5 K13-1515		21.1	20.4		21.3	19.8	21.8			
6 K13-1615		20.4	20.1		21.9	19.0	21.5			
7 LD12-8677		20.4	20.8		22.2	20.6	22.0			
8 LD12-10534		20.0	20.3		20.8	18.9	21.5			