

2020 SCN UNIFORM III

Strain	FPhm	Parentage	Previous testing	Gen. Comp.	Traits	SCN Resistance source
1 LD11-2170 (SCN)	PLtbr	Syngenta 03JR313108 x LD05-3171	4	F5		PI 88788
2 U15-606207	PGbf	LD07-3419 x U09-105007	2	F5	Rps	PI 88788,437654
3 LD07-3395bf (SCN)	WGbf	Syngenta WW115926 x LD00-2817	4	F5		PI 88788,437654
4 U14-910097 (SCN)	PGbf	U09-105007 x LD07-3419	1	F5		PI 88788,437654
5 LD15- 456	WLtbl	HM09-W084 x LD10-10226	1	F5		PI 88788
6 LD15- 467	WLtbl	HM09-W084 x LD10-10226	1	F5		PI 88788
7 LD15-1477	WLtbr	WN0902577 x LD07-4477	1	F5		PI 88788
8 LD15-6762	PGbf	WN0902577 x SD08CV-2102	1	F5		PI 88788
9 LD16-6787	WGy	LD07-3419 x LD10-10226	19SCN P III	F5		PI 88788,437654
10 LD16-6886	PGy+ibl	LD07-3419 x LD10-10226	19SCN P III	F5		PI 88788,437654
11 LD16-7669	PLt+Gbl+ibl	LD07-3395 x U09-133021	19SCN P III	F5		PI 88788,437654
12 SA14-9653	PTbl	LD07-4477 x LD02-9050	2	F4		PI 88788
13 SA16-12491	PGibl	LS09-1803 x LD09-10911	19SCN P III	F5		PI 88788

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Entry	IL SCN screening										NE
	cyst counts			HG 0		cyst counts			HG 2.5.7		Gall Midge
	rep1	rep2	rep3	FI	rating	rep1	rep2	rep3	FI	rating	score
<b>1 LD11-2170 (SCN)</b>	40	51	29	<b>27</b>	<b>MR</b>	125	101	129	<b>80</b>	<b>NR</b>	0.0
<b>2 U15-606207</b>	10	6	8	<b>5</b>	<b>HR</b>	2	2	1	<b>1</b>	<b>HR</b>	1.0
<b>3 LD07-3395bf (SCN)</b>	22	17	35	<b>17</b>	<b>R</b>	11	26	16	<b>12</b>	<b>R</b>	0.0
<b>4 U14-910097 (SCN)</b>	4	1	4	<b>2</b>	<b>HR</b>	3	6	2	<b>2</b>	<b>HR</b>	1.0
<b>5 LD15- 456</b>	37	31	44	<b>25</b>	<b>MR</b>	95	81	111	<b>65</b>	<b>NR</b>	1.5
<b>6 LD15- 467</b>	10	16	15	<b>9</b>	<b>HR</b>	92	74	79	<b>55</b>	<b>LR</b>	2.0
<b>7 LD15-1477</b>	8	5	13	<b>6</b>	<b>HR</b>	133	127	123	<b>61</b>	<b>NR</b>	1.5
<b>8 LD15-6762</b>	46	36	36	<b>26</b>	<b>MR</b>	127	134	138	<b>90</b>	<b>NR</b>	1.0
<b>9 LD16-6787</b>	2	5	9	<b>4</b>	<b>HR</b>	70	69	74	<b>48</b>	<b>LR</b>	0.0
<b>10 LD16-6886</b>	15	18	28	<b>14</b>	<b>R</b>	9	28	31	<b>11</b>	<b>R</b>	0.0
<b>11 LD16-7669</b>	39	17	26	<b>18</b>	<b>R</b>	22	48	25	<b>21</b>	<b>R</b>	0.0
<b>12 SA14-9653</b>	37	26	45	<b>24</b>	<b>R</b>	132	126	139	<b>89</b>	<b>NR</b>	0.0
<b>13 SA16-12491</b>	68	50	54	<b>39</b>	<b>MR</b>	112	106	87	<b>69</b>	<b>NR</b>	0.0

Ave of 2 reps.  
 1-9 visual scale.  
 1=10% infection  
 2=20% infection  
 Etc.

(\*)=small root, (.)=missing sample, (\*\*)=rep data too variable to rate

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2020 Summary

Entry	Yield						Maturity date	Lodging score	Height in.	Seed			
	All		Infested		Non-infested					weight	quality	protein	oil
	bu/a	rank	bu/a	rank	bu/a	rank				g/100	score	@13%	@13%
Locations	<b>6</b>		5		1		6	6	5	5	5	5	
<b>1 LD11-2170 (SCN)</b>	<b>71.0</b>	<b>4</b>	70.8	3	72.6	3	9/27	1.1	33	15.8	1.0	32.5	21.0
<b>2 U15-606207</b>	<b>69.5</b>	<b>6</b>	69.8	6	68.6	4	1	1.1	33	14.9	1.2	31.4	20.7
<b>3 LD07-3395bf (SCN)</b>	<b>71.4</b>	<b>3</b>	70.6	4	76.1	1	3	1.2	31	15.1	1.4	30.7	21.1
<b>4 U14-910097 (SCN)</b>	<b>69.6</b>	<b>5</b>	69.1	7	72.8	2	0	1.9	32	14.3	1.4	31.6	21.2
<b>5 LD15- 456</b>	<b>66.9</b>	<b>8</b>	68.6	8	59.3	11	-2	1.4	33	16.0	1.4	33.2	20.7
<b>6 LD15- 467</b>	<b>66.2</b>	<b>10</b>	67.8	10	59.0	12	-2	1.2	33	16.3	1.4	33.4	20.4
<b>7 LD15-1477</b>	<b>65.6</b>	<b>11</b>	65.4	11	66.9	5	-1	1.3	35	13.5	1.4	33.4	20.3
<b>8 LD15-6762</b>	<b>72.1</b>	<b>2</b>	73.8	2	64.0	7	2	1.3	36	14.4	1.4	33.4	20.0
<b>9 LD16-6787</b>	<b>73.4</b>	<b>1</b>	75.2	1	65.0	6	3	1.0	35	14.7	1.2	32.4	19.2
<b>10 LD16-6886</b>	<b>68.8</b>	<b>7</b>	70.5	5	61.0	9	-1	1.1	31	16.7	1.2	32.0	20.9
<b>11 LD16-7669</b>	<b>66.9</b>	<b>8</b>	68.4	9	59.5	10	2	1.1	37	12.5	1.3	32.1	20.2
<b>12 SA14-9653</b>	<b>62.9</b>	<b>12</b>	64.9	12	53.5	13	4	1.5	34	15.9	1.2	33.8	19.2
<b>13 SA16-12491</b>	<b>60.7</b>	<b>13</b>	60.4	13	62.2	8	2	1.8	36	12.3	1.4	32.2	19.4
Mean	<b>68.1</b>		68.9		64.6		0.9	1.3	33.8	14.8	1.3	32.5	20.3
LSD(.05)	<b>4.7</b>		5.3		12.7								
C.V. %	<b>10.5</b>		10.6		9.0								
Replications	<b>14</b>		12		2								

\*Arthur, IL yield data not included in means

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2 Year Summary

Entry	Yield						Maturity date	Lodging score	Height in.	Seed			
	All		Infested		Non-infested					weight	quality	protein	oil
	bu/a	rank	bu/a	rank	bu/a	rank				g/100	score	@13%	@13%
Locations	<b>12</b>		9		3		12	12	10	11	11	10	10
<b>1 LD11-2170 (SCN)</b>	<b>66.0</b>	<b>4</b>	69.3	3	55.9	4	9/28	1.2	30.8	15.5	1.4	33.6	19.7
<b>2 U15-606207</b>	<b>67.1</b>	<b>2</b>	70.7	2	56.5	3	2	1.2	31.7	15.5	1.6	32.3	19.4
<b>3 LD07-3395bf (SCN)</b>	<b>65.8</b>	<b>5</b>	68.4	5	57.8	1	4	1.2	29.9	15.8	1.7	31.7	19.9
<b>4 U14-910097 (SCN)</b>	<b>66.2</b>	<b>3</b>	69.2	4	57.1	2	-1	1.8	29.8	14.8	1.5	32.5	20.0
<b>5 LD15- 456</b>	<b>63.8</b>	<b>6</b>	67.6	6	52.2	7	-1	1.4	31.1	16.4	1.7	34.0	19.5
<b>6 LD15- 467</b>	<b>63.6</b>	<b>7</b>	67.5	7	51.6	9	-1	1.3	31.2	16.9	1.7	34.2	19.4
<b>7 LD15-1477</b>	<b>63.3</b>	<b>9</b>	67.0	8	51.8	8	0	1.3	33.4	14.6	1.5	34.2	19.1
<b>8 LD15-6762</b>	<b>67.4</b>	<b>1</b>	71.5	1	55.1	6	1	1.4	34.2	15.3	1.6	34.3	19.0
<b>12 SA14-9653</b>	<b>63.3</b>	<b>8</b>	66.0	9	55.2	5	4	1.7	33.5	16.3	1.5	34.6	18.2
Mean	<b>65.2</b>		68.6		54.8		1.0	1.4	31.7	15.7	1.6	33.5	19.4

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SCN HG Type	Yield (bu/a)						
	Arthur	Romney	Manhattan	Columbia	Holdrege	Lincoln	West Lafayette
	IL	IN	KS	MO	NE	NE	IN
	2.5.7	2.5.7	Inf	2.5.7	Inf	2.5.7	NI
Strain							
<b>1 LD11-2170 (SCN)</b>	87.4	85.2	57.9	57.5	80.1	73.5	72.6
<b>2 U15-606207</b>	59.9	93.7	56.7	51.6	80.7	66.9	68.6
<b>3 LD07-3395bf (SCN)</b>	64.4	84.0	67.0	50.2	80.6	70.6	76.1
<b>4 U14-910097 (SCN)</b>	75.8	86.8	67.5	56.5	72.6	62.3	72.8
<b>5 LD15- 456</b>	52.9	70.4	67.2	52.7	87.9	66.3	59.3
<b>6 LD15- 467</b>	60.5	80.2	66.2	53.5	65.8	73.8	59.0
<b>7 LD15-1477</b>	51.3	74.4	55.9	55.7	73.7	69.6	66.9
<b>8 LD15-6762</b>	64.1	82.8	67.5	60.2	88.8	70.3	64.0
<b>9 LD16-6787</b>	55.7	86.0	65.6	60.8	82.8	81.2	65.0
<b>10 LD16-6886</b>	61.9	88.4	62.4	53.2	72.3	76.4	61.0
<b>11 LD16-7669</b>	71.6	81.6	61.9	55.7	70.8	72.6	59.5
<b>12 SA14-9653</b>	77.2	71.8	60.2	51.9	71.0	69.7	53.5
<b>13 SA16-12491</b>	62.8	57.6	58.9	57.2	65.1	65.6	62.2
<b>Average</b>	65.0	80.2	62.7	55.1	76.3	70.7	64.6
<b>LSD(2-sided,.05)</b>	28.4	17.4	6.9	13.6	18.2	11.2	12.7
<b>C.V. %</b>	<b>20.1</b>	9.9	6.5	14.7	9.6	5.9	9.0
<b>Replications</b>	2	2	3	3	2	2	2
<b>Row spacing (in.)</b>	30	30	30	30	30	30	30

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Yield (rank)							
SCN HG Type	Arthur	Romney	Manhattan	Columbia	Holdrege	Lincoln	West
	IL	IN	KS	MO	NE	NE	Lafayette
	2.5.7	2.5.7	Inf	2.5.7	Inf	2.5.7	NI
Strain							
<b>1 LD11-2170 (SCN)</b>	1	5	11	3	6	4	3
<b>2 U15-606207</b>	10	1	12	12	4	10	4
<b>3 LD07-3395bf (SCN)</b>	5	6	4	13	5	6	1
<b>4 U14-910097 (SCN)</b>	3	3	1	5	8	13	2
<b>5 LD15- 456</b>	12	12	3	10	2	11	11
<b>6 LD15- 467</b>	9	9	5	8	12	3	12
<b>7 LD15-1477</b>	13	10	13	7	7	9	5
<b>8 LD15-6762</b>	6	7	1	2	1	7	7
<b>9 LD16-6787</b>	11	4	6	1	3	1	6
<b>10 LD16-6886</b>	8	2	7	9	9	2	9
<b>11 LD16-7669</b>	4	8	8	6	11	5	10
<b>12 SA14-9653</b>	2	11	9	11	10	8	13
<b>13 SA16-12491</b>	7	13	10	4	13	12	8

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Maturity							
	Arthur	Romney	Manhattan	Columbia	Holdrege	Lincoln	West Lafayette
	IL	IN	KS	MO	NE	NE	IN
SCN HG Type	2.5.7	2.5.7	Inf	2.5.7	Inf	2.5.7	NI
Strain							
<b>1 LD11-2170 (SCN)</b>	9/21	9/26	9/24	9/29		10/05	9/27
<b>2 U15-606207</b>	-1	1	0	4		3	0
<b>3 LD07-3395bf (SCN)</b>	5	2	4	4		4	2
<b>4 U14-910097 (SCN)</b>	2	-5	0	3		-1	-2
<b>5 LD15- 456</b>	-4	-2	0	1		-1	-4
<b>6 LD15- 467</b>	-4	-3	0	1		-1	-4
<b>7 LD15-1477</b>	-4	-2	0	2		-1	-3
<b>8 LD15-6762</b>	2	3	0	3		0	2
<b>9 LD16-6787</b>	5	2	1	4		4	3
<b>10 LD16-6886</b>	-4	-2	0	3		1	-3
<b>11 LD16-7669</b>	3	2	0	5		4	1
<b>12 SA14-9653</b>	4	3	3	3		6	3
<b>13 SA16-12491</b>	1	-2	0	5		5	2
<b>Planted</b>	5/12	5/27	6/08	6/03	6/19	6/09	6/02

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## Lodging (score)

SCN HG Type	Arthur	Romney	Manhattan	Columbia	Holdrege	Lincoln	West Lafayette
	IL	IN	KS	MO	NE	NE	IN
	2.5.7	2.5.7	Inf	2.5.7	Inf	2.5.7	NI
Strain							
<b>1 LD11-2170 (SCN)</b>	1.0	1.5	1.0	1.3		1.0	1.0
<b>2 U15-606207</b>	1.0	1.0	1.0	1.5		1.0	1.0
<b>3 LD07-3395bf (SCN)</b>	1.3	1.0	1.0	1.5		1.0	1.5
<b>4 U14-910097 (SCN)</b>	1.8	3.0	1.3	1.7		2.0	1.5
<b>5 LD15- 456</b>	1.0	2.5	1.0	1.5		1.5	1.0
<b>6 LD15- 467</b>	1.0	1.5	1.0	1.5		1.0	1.0
<b>7 LD15-1477</b>	1.0	1.5	1.0	1.5		1.5	1.0
<b>8 LD15-6762</b>	1.5	1.0	1.0	1.5		2.0	1.0
<b>9 LD16-6787</b>	1.0	1.0	1.0	1.2		1.0	1.0
<b>10 LD16-6886</b>	1.0	1.0	1.0	1.3		1.0	1.0
<b>11 LD16-7669</b>	1.3	1.0	1.0	1.5		1.0	1.0
<b>12 SA14-9653</b>	2.8	1.5	1.0	1.5		1.0	1.5
<b>13 SA16-12491</b>	1.5	3.0	1.7	1.5		1.5	1.5



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Height (inches)							
	Arthur	Romney	Manhattan	Columbia	Holdrege	Lincoln	West Lafayette
	IL	IN	KS	MO	NE	NE	IN
SCN HG Type	2.5.7	2.5.7	Inf	2.5.7	Inf	2.5.7	NI
Strain							
<b>1 LD11-2170 (SCN)</b>	40		36	25		33	32
<b>2 U15-606207</b>	39		37	25		30	34
<b>3 LD07-3395bf (SCN)</b>	33		36	23		33	33
<b>4 U14-910097 (SCN)</b>	36		35	26		31	34
<b>5 LD15- 456</b>	38		37	25		34	31
<b>6 LD15- 467</b>	37		37	26		35	33
<b>7 LD15-1477</b>	39		39	28		35	37
<b>8 LD15-6762</b>	41		40	27		36	37
<b>9 LD16-6787</b>	37		38	28		37	34
<b>10 LD16-6886</b>	35		33	23		35	30
<b>11 LD16-7669</b>	40		41	27		39	38
<b>12 SA14-9653</b>	46		39	27		24	32
<b>13 SA16-12491</b>	40		38	27		37	36

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Seed Weight (g/100)							
	Arthur	Romney	Manhattan	Columbia	Holdrege	Lincoln	West Lafayette
	IL	IN	KS	MO	NE	NE	IN
SCN HG Type	2.5.7	2.5.7	Inf	2.5.7	Inf	2.5.7	NI
Strain							
<b>1 LD11-2170 (SCN)</b>	15.1		15.0	17.4		16.1	15.5
<b>2 U15-606207</b>	13.4		15.0	16.4		15.2	14.4
<b>3 LD07-3395bf (SCN)</b>	14.9		13.0	17.6		15.1	14.8
<b>4 U14-910097 (SCN)</b>	14.5		12.0	16.5		14.2	14.3
<b>5 LD15- 456</b>	14.5		14.0	17.7		17.0	16.8
<b>6 LD15- 467</b>	14.8		14.0	18.5		17.8	16.5
<b>7 LD15-1477</b>	11.7		11.0	15.8		14.9	14.0
<b>8 LD15-6762</b>	12.8		13.0	16.0		15.6	14.8
<b>9 LD16-6787</b>	13.3		13.0	16.5		15.5	15.4
<b>10 LD16-6886</b>	14.9		15.0	18.8		17.8	17.2
<b>11 LD16-7669</b>	12.3		10.0	14.7		13.1	12.2
<b>12 SA14-9653</b>	15.7		13.0	18.1		16.8	15.8
<b>13 SA16-12491</b>	12.0		10.0	14.5		12.4	12.7

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## Seed Quality (score)

SCN HG Type	West						
	Arthur	Romney	Manhattan	Columbia	Holdrege	Lincoln	Lafayette
	IL	IN	KS	MO	NE	NE	IN
	2.5.7	2.5.7	Inf	2.5.7	Inf	2.5.7	NI
Strain							
<b>1 LD11-2170 (SCN)</b>	1.0		1.0	1.0		1.0	1.0
<b>2 U15-606207</b>	1.0		2.0	1.0		1.0	1.0
<b>3 LD07-3395bf (SCN)</b>	2.0		2.0	1.0		1.0	1.0
<b>4 U14-910097 (SCN)</b>	2.0		2.0	1.0		1.0	1.0
<b>5 LD15- 456</b>	2.0		2.0	1.0		1.0	1.0
<b>6 LD15- 467</b>	2.0		2.0	1.0		1.0	1.0
<b>7 LD15-1477</b>	2.0		2.0	1.0		1.0	1.0
<b>8 LD15-6762</b>	2.0		2.0	1.0		1.0	1.0
<b>9 LD16-6787</b>	1.0		2.0	1.0		1.0	1.0
<b>10 LD16-6886</b>	2.0		1.0	1.0		1.0	1.0
<b>11 LD16-7669</b>	1.0		2.0	1.0		1.0	1.5
<b>12 SA14-9653</b>	1.0		2.0	1.0		1.0	1.0
<b>13 SA16-12491</b>	2.0		2.0	1.0		1.0	1.0

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Protein (%)							
	Arthur	Romney	Manhattan	Columbia	Holdrege	Lincoln	West Lafayette
	IL	IN	KS	MO	NE	NE	IN
SCN HG Type	2.5.7	2.5.7	Inf	2.5.7	Inf	2.5.7	NI
Strain							
<b>1 LD11-2170 (SCN)</b>	32.7		32.5	31.7		31.8	34.1
<b>2 U15-606207</b>	29.8		31.1	33.1		31.6	31.5
<b>3 LD07-3395bf (SCN)</b>	28.8		30.8	32.6		30.6	30.6
<b>4 U14-910097 (SCN)</b>	31.0		31.2	32.7		32.0	31.4
<b>5 LD15- 456</b>	30.7		33.9	33.7		33.1	34.8
<b>6 LD15- 467</b>	31.6		33.1	33.4		34.0	35.0
<b>7 LD15-1477</b>	32.3		33.2	33.6		33.3	34.7
<b>8 LD15-6762</b>	31.1		32.0	33.7		34.7	35.4
<b>9 LD16-6787</b>	30.3		31.7	33.9		33.3	33.0
<b>10 LD16-6886</b>	30.4		31.5	33.0		32.0	33.0
<b>11 LD16-7669</b>	30.3		32.3	32.6		31.8	33.3
<b>12 SA14-9653</b>	33.9		32.6	34.4		33.9	34.4
<b>13 SA16-12491</b>	30.2		31.7	33.1		31.3	34.6

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Oil (%)							
	Arthur	Romney	Manhattan	Columbia	Holdrege	Lincoln	West Lafayette
	IL	IN	KS	MO	NE	NE	IN
SCN HG Type	2.5.7	2.5.7	Inf	2.5.7	Inf	2.5.7	NI
Strain							
<b>1 LD11-2170 (SCN)</b>	21.0		21.3	21.6		20.7	20.3
<b>2 U15-606207</b>	20.9		21.1	20.5		20.4	20.3
<b>3 LD07-3395bf (SCN)</b>	22.2		20.9	21.8		20.2	20.7
<b>4 U14-910097 (SCN)</b>	21.5		21.7	21.7		20.4	20.5
<b>5 LD15- 456</b>	21.4		21.1	20.8		20.3	20.1
<b>6 LD15- 467</b>	20.8		20.8	21.0		18.9	20.5
<b>7 LD15-1477</b>	20.4		20.5	20.9		19.7	19.7
<b>8 LD15-6762</b>	20.7		20.4	20.8		18.7	19.3
<b>9 LD16-6787</b>	20.2		19.1	18.5		19.2	18.9
<b>10 LD16-6886</b>	21.7		21.2	21.5		19.3	20.8
<b>11 LD16-7669</b>	20.7		20.5	20.9		19.9	19.0
<b>12 SA14-9653</b>	18.9		19.8	19.3		18.3	19.5
<b>13 SA16-12491</b>	20.5		20.0	20.0		18.8	17.6