

2021 SCN UNIFORM III

Strain	FPhlm	Parentage	Previous testing	Comp.	Traits	SCN Resistance source
1 LD11-2170 (SCN)	PLtbr	Syngenta 03JR313108 x LD05-3171	5	F5		PI 88788
2 U15-606207 (SCN)	PGbf	LD07-3419 x U09-105007	3	F5	Rps	PI 88788,437654
3 LD07-3395bf (SCN)	WGbf	Syngenta WW115926 x LD00-2817	5	F5		PI 88788,437654
4 U14-910097 (SCN)	PGbf	U09-105007 x LD07-3419	2	F5		PI 88788,437654
5 CR17-1724	PTbl	LD00-3309 x L65-1274	20SCN P III	F5	nod NILS x SCN	
6 CR17-1905	PTbl	LD00-3309 x L65-1274	20SCN P III	F5	nod NILS x SCN	
7 LD16-6787	WGy	LD07-3419 x LD10-10226	1	F5		PI 88788,437654
8 LD17-2946a	WLtbl	U11-614119 x LD09-30224	20SCN P III	F5	Rag 1	PI 88788
9 LD17-8668	PGy	E11128T x U09-105007	20SCN P III	F5		PI 88788
10 LD17-10579	PLtbl	LD12-10534 x U11-920017	20SCN P III	F5		PI 88788, soja
11 LD17-10786	WLtbr	LD12-10534 x LD11-7311	20SCN P III	F5		PI 88788, soja
12 LD18-1855	PGy	LD11-7311 x LD10-10198	20PT IIIA	F5	Rps	PI 88788
13 LD18-1867	WGy	LD11-7311 x LD10-10198	20PT IIIA	F5	Rps	PI 88788
14 U17-304114	PGibl	U11-614093 x LD09-30224	20SCN P III	F5	Exp Rps	
15 U18-617265	PLtbl	LD12-3903 x U11-917032	20SCN P II	F5		PI 88788
16 U18-617270	PLtbl	LD12-3903 x U11-917032	20SCN P III	F5	Exp Rps	PI 88788
17 U18-913029	PLtbl	LD10-10198 x U11-911079	20SCN P III	F5	Exp Rps	PI 88788

2021 SCN UNIFORM III

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 LD11-2170 (SCN)	No data available					284	112	294	85	NR
2 U15-606207 (SCN)						10	18	68	12	R
3 LD07-3395bf (SCN)						97	13	47	19	R
4 U14-910097 (SCN)						23	8	17	6	HR
5 CR17-1724						171	91	104	45	LR
6 CR17-1905						104	183	207	61	NR
7 LD16-6787						152	84	141	46	LR
8 LD17-2946a						179	208	138	64	NR
9 LD17-8668						162	147	269	71	NR
10 LD17-10579						112	59	175	42	redo
11 LD17-10786						42	106	91	29	MR
12 LD18-1855						202	97	163	57	LR
13 LD18-1867						246	187	116	67	LR
14 U17-304114						119	96	58	33	MR
15 U18-617265						182	102	211	61	NR
16 U18-617270						139	108	240	60	NR
17 U18-913029						97	167	185	55	LR

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

2021 SCN UNIFORM III

Predicted resistance genes based on SNP marker analysis						
Entry	SCN	Iron Chlorosis	Phytophthora	Brown stem rot	Frogeye leaf spot	Stem canker
1 LD11-2170 (SCN)	no marker data available					
2 U15-606207 (SCN)	no marker data available					
3 LD07-3395bf (SCN)	no marker data available					
4 U14-910097 (SCN)	Rhg1-Peking+Rhg4	Ch13, Het LgN	none	S	S	R
5 CR17-1724	Rhg1-PI88788	LgN+Ch13	none	R	S	R
6 CR17-1905	Rhg1-PI88788	LgN+Ch13	none	R	S	R
7 LD16-6787	Rhg1-PI88788	LgN+Ch13	none	Het	S	R
8 LD17-2946a	Rhg1-PI88788	LgA1+Ch13	Rps1k	R	S	R
9 LD17-8668	Rhg1-PI88788	Ch13	Rps6	Het	S	R
10 LD17-10579	none	Ch13, Het LgN	none	R	S	R
11 LD17-10786	Rhg1-PI88788	LgN+Ch13	Rps1k	R	S	R
12 LD18-1855	Rhg1-PI88788	LgA1+LgN+Ch13	Rps1k	R	S	R
13 LD18-1867	Rhg1-PI88788	LgA1+LgN+Ch13	Rps1k	R	S	R
14 U17-304114	Rhg1-PI88788	LgN+Ch13	none	R	S	R
15 U18-617265	Rhg1-PI88788	Ch13	Rps1c	S	S	R
16 U18-617270	Rhg1-PI88788	LgA1+Ch13	none	R	S	R
17 U18-913029	no marker data available					

2021 SCN UNIFORM III

2021 Summary

2022 Summary														
Entry	Locations	Yield						Maturity	Lodging	Height	Seed			
		All		Infested		Non-infested					weight	quality	protein	oil
		bu/a	rank	bu/a	rank	bu/a	rank	date	score	in.	g/100	score	@13%	@13%
		7		6		1*		8	7	6	6	6	6	6
1	LD11-2170 (SCN)	81.1	6	83.8	8	65.1	1	9/25	1.6	34	16.7	1.2	35.1	19.1
2	U15-606207 (SCN)	83.9	2	89.0	1	53.6	16	3	1.5	35	16.9	1.4	33.4	18.7
3	LD07-3395bf (SCN)	81.4	4	85.2	4	58.6	7	5	1.6	34	17.0	1.3	32.5	19.4
4	U14-910097 (SCN)	84.0	1	87.5	2	62.6	4	-1	2.5	32	16.1	1.5	33.4	19.7
5	CR17-1724	74.0	17	76.9	17	56.8	11	5	1.3	36	13.9	1.2	34.5	17.4
6	CR17-1905	76.8	14	78.7	16	64.9	2	5	1.5	36	14.2	1.2	34.2	17.3
7	LD16-6787	80.5	7	83.7	9	61.2	5	4	1.4	35	16.3	1.3	34.9	17.5
8	LD17-2946a	81.2	5	85.0	5	58.4	8	-1	2.0	34	17.2	1.5	35.2	18.2
9	LD17-8668	76.8	14	80.2	15	56.4	13	1	2.2	32	20.8	1.7	37.2	17.3
10	LD17-10579	80.0	11	82.8	11	62.8	3	0	2.1	36	20.2	1.3	34.1	18.6
11	LD17-10786	78.0	12	81.7	13	55.7	14	1	1.5	35	18.2	1.3	34.2	18.1
12	LD18-1855	80.1	10	83.5	10	59.8	6	-2	1.7	34	16.1	1.2	34.8	17.6
13	LD18-1867	82.3	3	86.7	3	55.6	15	0	1.7	35	16.3	1.5	33.7	18.4
14	U17-304114	77.8	13	81.1	14	57.9	9	1	1.6	34	16.5	1.2	34.6	17.8
15	U18-617265	80.4	8	84.1	6	57.8	10	0	1.3	34	16.3	1.3	34.1	19.6
16	U18-617270	80.2	9	84.1	7	56.6	12	3	1.5	33	18.0	1.2	34.6	19.0
17	U18-913029	76.8	14	81.9	12	45.9	17	-4	1.5	36	14.5	1.5	34.7	18.2
	Mean	79.7		83.3		58.2		1.2	1.7	34.4	16.8	1.3	34.4	18.3
	C.V. %	7.3		7.1		5.3		2.8	35.5	6.4				
	LSD(.05)	3.5		3.8		6.5		1.5	3.9	1.4				
	Replications	17		15		2		17	14	14				

*Romney, IN yield data not included in means

2021 SCN UNIFORM III

2 Year Summary

Entry	Yield						Maturity	Lodging	Height	Seed			
	All		Infested		Non-infested					weight	quality	protein	oil
	bu/a	rank	bu/a	rank	bu/a	rank				g/100	score	@13%	@13%
Locations	13		11		2		14	13	11	11	11	11	
1 LD11-2170 (SCN)	76.4	5	77.9	5	68.8	1	9/26	1.4	33	16.3	1.1	33.8	20.1
2 U15-606207	77.3	1	80.3	1	61.1	5	2	1.3	34	16.0	1.3	32.4	19.7
3 LD07-3395bf (SCN)	76.8	4	78.5	4	67.3	3	4	1.4	33	16.1	1.4	31.6	20.3
4 U14-910097 (SCN)	77.3	1	79.1	3	67.7	2	-1	2.2	32	15.3	1.5	32.5	20.4
7 LD16-6787	77.2	3	79.8	2	63.1	4	4	1.2	35	15.6	1.3	33.7	18.3
Mean	77.0		79.1		65.6		2.4	1.5	33.4	15.9	1.3	32.8	19.7

2021 SCN UNIFORM III

SCN HG Type	Yield (bu/a)							
	Ames	Arthur	Urbana	Albany	Rock Port	Phillips	Romney	West
	IA	IL	IL	MO	MO	NE	IN	Lafayette
	Inf	Inf	Inf	Inf	Inf	Inf	NI	NI
Strain								
1 LD11-2170 (SCN)	83.5	72.6	71.1	76.3	96.4	103.1	54.0	65.1
2 U15-606207 (SCN)	87.0	82.1	74.6	78.1	111.2	100.9	81.3	53.6
3 LD07-3395bf (SCN)	84.6	69.5	73.1	81.4	97.3	105.1	77.2	58.6
4 U14-910097 (SCN)	92.9	81.7	72.4	83.3	93.0	101.9	66.2	62.6
5 CR17-1724	79.5	69.3	64.1	67.4	90.0	90.9	52.4	56.8
6 CR17-1905	83.0	79.3	66.9	65.2	89.8	88.3	74.5	64.9
7 LD16-6787	82.9	76.1	71.5	73.2	100.4	98.0	70.3	61.2
8 LD17-2946a	89.4	77.5	68.9	75.9	103.8	94.7	60.9	58.4
9 LD17-8668	79.2	72.2	66.3	73.9	92.2	97.6	56.6	56.4
10 LD17-10579	81.7	70.7	70.6	78.6	93.7	101.7	68.9	62.8
11 LD17-10786	85.2	66.1	67.4	78.4	94.1	99.1	69.4	55.7
12 LD18-1855	86.8	61.0	68.1	81.3	102.6	101.3	65.4	59.8
13 LD18-1867	91.4	65.6	67.1	83.5	108.1	104.7	75.1	55.6
14 U17-304114	86.3	77.3	67.2	65.9	96.0	93.8	67.4	57.9
15 U18-617265	88.0	78.4	63.7	82.2	90.6	102.0	69.8	57.8
16 U18-617270	86.5	81.5	70.6	71.6	98.8	95.7	71.3	56.6
17 U18-913029	79.9	73.4	68.1	74.7	91.0	104.5	63.4	45.9
Mean	85.2	73.8	68.9	75.9	97.0	99.0	67.3	58.2
C.V. %	4.8	9.0	3.9	6.4	7.1	5.4	19.2	5.3
LSD(2-sided,.05)	6.8	14.0	5.7	8.1	11.4	13.2	27.4	6.5
Replications	3	2	2	3	3	2	2	2
Row spacing (in.)	30	30	30	30	30	30	30	30

2021 SCN UNIFORM III

Yield (rank)								
SCN HG Type	Ames	Arthur	Urbana	Albany	Rock Port	Phillips	Romney	West
	IA	IL	IL	MO	MO	NE	IN	Lafayette
	Inf	Inf	Inf	Inf	Inf	Inf	NI	NI
Strain								
1 LD11-2170 (SCN)	11	10	5	9	8	4	16	1
2 U15-606207 (SCN)	5	1	1	8	1	9	1	16
3 LD07-3395bf (SCN)	10	13	2	4	7	1	2	7
4 U14-910097 (SCN)	1	2	3	2	12	6	11	4
5 CR17-1724	16	14	16	15	16	16	17	11
6 CR17-1905	12	4	14	17	17	17	4	2
7 LD16-6787	13	8	4	13	5	11	6	5
8 LD17-2946a	3	6	8	10	3	14	14	8
9 LD17-8668	17	11	15	12	13	12	15	13
10 LD17-10579	14	12	6	6	11	7	9	3
11 LD17-10786	9	15	11	7	10	10	8	14
12 LD18-1855	6	17	9	5	4	8	12	6
13 LD18-1867	2	16	13	1	2	2	3	15
14 U17-304114	8	7	12	16	9	15	10	9
15 U18-617265	4	5	17	3	15	5	7	10
16 U18-617270	7	3	6	14	6	13	5	12
17 U18-913029	15	9	9	11	14	3	13	17

2021 SCN UNIFORM III

Maturity								
	Ames	Arthur	Urbana	Albany	Rock Port	Phillips	Romney	West Lafayette
	IA	IL	IL	MO	MO	NE	IN	IN
SCN HG Type	Inf	Inf	Inf	Inf	Inf	Inf	NI	NI
Strain								
1 LD11-2170 (SCN)	9/28	9/26	9/21	9/27	9/30	9/26	9/23	9/16
2 U15-606207 (SCN)	-1	3	6	1	2	4	8	4
3 LD07-3395bf (SCN)	0	5	6	3	4	5	7	7
4 U14-910097 (SCN)	0	-1	-1	0	-3	-3	-2	2
5 CR17-1724	5	7	8	1	2	6	7	7
6 CR17-1905	1	5	9	1	3	8	5	6
7 LD16-6787	2	6	6	1	3	4	7	5
8 LD17-2946a	-1	-2	-2	0	-1	2	-6	-1
9 LD17-8668	0	1	1	1	0	3	1	3
10 LD17-10579	1	-3	1	0	-1	2	0	-3
11 LD17-10786	2	-2	4	2	0	1	1	2
12 LD18-1855	0	-4	-3	-3	-3	-1	-2	-3
13 LD18-1867	0	-4	-3	1	0	5	1	-2
14 U17-304114	0	1	1	-2	-1	3	2	3
15 U18-617265	-2	0	2	1	-2	2	-2	1
16 U18-617270	3	4	4	1	1	5	0	3
17 U18-913029	-2	-5	-5	-5	-2	1	-7	-5
Planted	5/24	5/24	5/24	6/10	6/03	5/21	6/1	5/15

2021 SCN UNIFORM III

Lodging (score)								
SCN HG Type	Ames	Arthur	Urbana	Albany	Rock Port	Phillips	Romney	West
	IA	IL	IL	MO	MO	NE	IN	Lafayette
	Inf	Inf	Inf	Inf	Inf	Inf	NI	NI
Strain								
1 LD11-2170 (SCN)		1.0	1.0	2.0	4.0	1.0	1.0	1.0
2 U15-606207 (SCN)		1.0	1.0	1.0	3.7	1.5	1.0	1.0
3 LD07-3395bf (SCN)		1.0	1.0	2.3	4.2	1.0	1.0	1.0
4 U14-910097 (SCN)		1.8	2.5	3.3	3.3	3.0	2.5	1.0
5 CR17-1724		1.0	1.0	1.0	3.0	1.0	1.0	1.0
6 CR17-1905		1.0	1.0	1.7	3.0	1.0	1.5	1.0
7 LD16-6787		1.0	1.0	1.7	3.3	1.0	1.0	1.0
8 LD17-2946a		1.3	1.5	2.7	4.3	1.0	2.0	1.0
9 LD17-8668		1.5	2.0	2.7	5.0	1.0	2.0	1.0
10 LD17-10579		1.5	2.0	2.7	4.3	2.0	1.0	1.0
11 LD17-10786		1.0	1.0	2.0	3.3	1.5	1.0	1.0
12 LD18-1855		1.0	1.0	2.8	4.0	1.0	1.0	1.0
13 LD18-1867		1.0	1.0	2.0	3.7	1.5	2.0	1.0
14 U17-304114		1.3	1.0	2.5	3.7	1.0	1.0	1.0
15 U18-617265		1.0	1.0	1.7	2.3	1.0	1.0	1.0
16 U18-617270		1.0	1.0	2.3	2.3	2.0	1.0	1.0
17 U18-913029		1.0	1.0	2.3	2.7	1.5	1.0	1.0

2021 SCN UNIFORM III

Height (inches)								
SCN HG Type	Ames	Arthur	Urbana	Albany	Rock Port	Phillips	Romney	West
	IA	IL	IL	MO	MO	NE	IN	Lafayette
	Inf	Inf	Inf	Inf	Inf	Inf	NI	NI
Strain								
1 LD11-2170 (SCN)		32	32	35	36	37		29
2 U15-606207 (SCN)		37	34	37	38	39		27
3 LD07-3395bf (SCN)		30	31	36	39	38		29
4 U14-910097 (SCN)		33	32	33	33	35		27
5 CR17-1724		35	31	39	43	40		29
6 CR17-1905		35	33	37	41	41		29
7 LD16-6787		36	32	35	40	40		30
8 LD17-2946a		34	34	33	35	39		31
9 LD17-8668		32	30	35	33	37		28
10 LD17-10579		36	34	38	39	39		31
11 LD17-10786		33	30	36	38	40		31
12 LD18-1855		32	33	33	38	38		31
13 LD18-1867		34	32	38	37	39		29
14 U17-304114		34	31	35	37	39		29
15 U18-617265		35	30	37	38	35		28
16 U18-617270		32	31	33	38	34		29
17 U18-913029		35	35	37	37	39		31

2021 SCN UNIFORM III

Seed Weight (g/100)								
SCN HG Type	Ames	Arthur	Urbana	Albany	Rock Port	Phillips	Romney	West
	IA	IL	IL	MO	MO	NE	IN	Lafayette
	Inf	Inf	Inf	Inf	Inf	Inf	NI	NI
Strain								
1 LD11-2170 (SCN)	17.4	16.3	16.4		16.9	18.2		15.1
2 U15-606207 (SCN)	17.5	16.8	16.7		17.7	17.3		15.3
3 LD07-3395bf (SCN)	18.1	16.7	16.8		16.6	18.5		15.4
4 U14-910097 (SCN)	17.2	15.9	15.2		16.2	17.9		14.4
5 CR17-1724	15.4	13.8	13.5		13.8	14.1		12.7
6 CR17-1905	15.6	13.4	14.2		14.9	14.3		12.5
7 LD16-6787	17.0	16.2	17.0		16.3	16.5		15.0
8 LD17-2946a	18.6	17.2	17.2		17.2	17.6		15.3
9 LD17-8668	22.1	21.7	19.8		21.7	22.0		17.5
10 LD17-10579	21.4	19.2	20.1		20.4	21.8		18.2
11 LD17-10786	20.2	17.6	18.3		18.5	18.4		16.4
12 LD18-1855	16.9	15.7	15.7		17.6	16.6		14.4
13 LD18-1867	17.0	16.7	16.3		17.2	16.9		14.0
14 U17-304114	17.7	16.9	16.4		16.6	16.3		15.3
15 U18-617265	17.3	16.5	15.9		15.9	17.6		15.0
16 U18-617270	18.7	18.3	16.7		19.0	18.1		17.3
17 U18-913029	14.8	14.9	14.3		14.1	15.4		13.4

2021 SCN UNIFORM III

Seed Quality (score)								
SCN HG Type	Ames	Arthur	Urbana	Albany	Rock Port	Phillips	Romney	West Lafayette
	IA	IL	IL	MO	MO	NE	IN	IN
	Inf	Inf	Inf	Inf	Inf	Inf	NI	NI
Strain								
1 LD11-2170 (SCN)	1.0	1.0	2.0		1.0	1.0		1.0
2 U15-606207 (SCN)	1.0	2.0	2.0		1.3	1.0		1.0
3 LD07-3395bf (SCN)	1.0	2.0	2.0		1.0	1.0		1.0
4 U14-910097 (SCN)	1.0	2.0	2.0		1.0	1.0		2.0
5 CR17-1724	1.0	2.0	1.0		1.0	1.0		1.0
6 CR17-1905	1.0	1.0	2.0		1.0	1.0		1.0
7 LD16-6787	1.0	1.0	2.0		1.3	1.0		1.5
8 LD17-2946a	1.0	2.0	2.0		1.0	1.0		2.0
9 LD17-8668	1.0	2.0	2.0		1.0	1.0		3.0
10 LD17-10579	1.0	1.0	2.0		1.0	1.0		2.0
11 LD17-10786	1.0	1.0	2.0		1.3	1.0		1.5
12 LD18-1855	1.0	1.0	2.0		1.0	1.0		1.0
13 LD18-1867	1.0	2.0	2.0		1.3	1.0		1.5
14 U17-304114	1.0	1.0	2.0		1.3	1.0		1.0
15 U18-617265	1.0	1.0	2.0		1.0	1.0		1.5
16 U18-617270	1.0	1.0	2.0		1.0	1.0		1.0
17 U18-913029	1.0	2.0	2.0		1.7	1.0		1.5

2021 SCN UNIFORM III

Protein (%)								
SCN HG Type	Ames	Arthur	Urbana	Albany	Rock Port	Phillips	Romney	West
	IA	IL	IL	MO	MO	NE	IN	Lafayette
	Inf	Inf	Inf	Inf	Inf	Inf	NI	NI
Strain								
1 LD11-2170 (SCN)	35.6	34.8	36.3		36.0	34.8		33.3
2 U15-606207 (SCN)	33.0	32.2	34.0		35.0	34.1		31.9
3 LD07-3395bf (SCN)	31.2	32.0	33.3		33.9	31.9		32.6
4 U14-910097 (SCN)	33.7	32.5	33.3		34.5	33.8		32.7
5 CR17-1724	35.0	33.6	36.4		34.3	33.7		34.1
6 CR17-1905	35.5	33.3	34.9		34.6	34.1		32.9
7 LD16-6787	34.8	34.9	36.9		35.0	33.8		34.1
8 LD17-2946a	35.8	34.9	36.3		35.1	35.6		33.5
9 LD17-8668	37.9	37.4	38.5		37.9	36.7		34.6
10 LD17-10579	35.0	33.2	35.1		34.4	34.2		32.7
11 LD17-10786	33.9	33.0	35.8		34.6	33.3		34.8
12 LD18-1855	34.9	35.1	35.6		35.5	35.0		33.1
13 LD18-1867	33.7	33.5	35.4		34.6	33.9		31.3
14 U17-304114	35.1	34.2	36.1		35.4	34.2		32.7
15 U18-617265	34.6	33.8	35.5		33.4	34.4		32.9
16 U18-617270	35.5	32.9	35.7		34.5	35.5		33.5
17 U18-913029	35.2	34.0	35.4		35.2	35.2		33.3

2021 SCN UNIFORM III

Oil (%)								
SCN HG Type	Ames	Arthur	Urbana	Albany	Rock Port	Phillips	Romney	West Lafayette
	IA	IL	IL	MO	MO	NE	IN	IN
	Inf	Inf	Inf	Inf	Inf	Inf	NI	NI
Strain								
1 LD11-2170 (SCN)	18.3	19.2	19.3		18.8	19.1		20.1
2 U15-606207 (SCN)	18.4	19.5	18.9		17.9	17.7		19.5
3 LD07-3395bf (SCN)	19.5	20.0	19.2		19.2	19.3		19.0
4 U14-910097 (SCN)	19.0	20.5	20.3		19.1	18.9		20.4
5 CR17-1724	17.1	17.8	16.9		17.5	17.6		17.5
6 CR17-1905	16.7	17.9	17.1		17.4	16.8		17.9
7 LD16-6787	17.3	17.5	17.3		17.4	17.8		17.6
8 LD17-2946a	17.4	18.7	17.9		18.1	17.7		19.8
9 LD17-8668	17.0	17.8	16.7		17.0	16.6		18.8
10 LD17-10579	17.6	19.5	18.7		18.4	17.7		19.6
11 LD17-10786	17.5	19.5	18.0		17.8	17.8		18.0
12 LD18-1855	16.9	18.4	17.7		17.1	16.6		18.6
13 LD18-1867	17.6	19.1	18.2		17.7	17.6		20.0
14 U17-304114	17.0	18.1	17.4		17.3	17.5		19.3
15 U18-617265	18.7	20.1	19.7		19.7	18.7		20.4
16 U18-617270	18.1	19.5	19.1		18.9	18.2		20.3
17 U18-913029	17.5	18.8	18.6		18.1	17.1		19.1