

2022 SCN PRELIMINARY IIIB

Strain	FPhm	Parentage	Gen.	Cooperator reported	
			Comp.	Traits	SCN Resistance source
1 LD11-2170 (SCN)	PLtbr	Syngenta 03JR313108 x LD05-3171	F5		PI 88788
2 U15-606207 (SCN)	PGbf	LD07-3419 x U09-105007	F5	Rps	PI 88788,437654
3 LD07-3395bf (SCN)	WGbf	Syngenta WW115926 x LD00-2817	F5		PI 88788,437654
4 U14-910097 (SCN)	PGbf	U09-105007 x LD07-3419	F5		PI 88788,437654
5 LD19-2650	PLtbr	LD13-3483 x LD11-2170	F5		PI 88788
6 LD19-5690	WLtbr	LD12-6010a x LD11-2170	F5		PI 88788
7 LD19-6357	P+WGbf/ibl	U13-912010 x LD11-2170	F5		PI 88788
8 LD19-6363	PGbf/ibl	U13-912010 x LD11-2170	F5		PI 88788
9 LD19-6534	PLtbr	U14-925152 x LD11-2170	F5		PI 88788,437654
10 LD19-6606	PLtbr	U14-925152 x LD11-2170	F5		PI 88788,437654
11 LD19-6607	PLtbr	U14-925152 x LD11-2170	F5		PI 88788,437654
12 LD19-6615	PGibl	U14-925152 x LD11-2170	F5		PI 88788,437654
13 LD19-8565	P+WLtbl	LD07-3395bf x LD11-2170	F5		PI 88788,437654
14 LD19-9093	PLtLbl	SA13-1385 x U14-924158	F5		PI 88788,437654
15 LD19-9742	WLtbl	LD07-3395bf x U11-494100	F4		PI 88788,437654
16 LD19-10182	P+WLtbl	U11-494100 x LD13-8769	F5	soja scn	PI 88788
17 LD20-5524	PLtbr	LD11-2170 x LD12-3903	F4		PI 88788
18 SA19-10016	PLtbl	SA13-1310 x LD11-2170	F5	Rhg1b, Rps1k, SC	Rhg1b
19 SA19-10777	PGibl	SA13-2926 x LD11-2170	F5	Rhg1b, Rps1k, SC	Rhg1b
20 SA19-12541	PLtbr	U14-924158 x LD11-2170	F5	Rhg1a, Rhg4, BSR, SC	Rhg1a+Rhg4
21 SA19-28597	PLtbl	SA13-1385 x U14-924158	F5	Rhg1a, Rhg4, SC	Rhg1a+Rhg4
22 SA19-28698	PLtbl	SA13-1385 x U14-211226	F5	Rhg1b, Rps1k, SC	Rhg1b
23 SA19-9788	WLtbl/br	SA13-2489 x LD11-2170	F5	Rhg1a, Rhg2, Rps1k	Rhg1a+Rhg2
24 SA19-9915	WLtbr	SA13-2489 x LD11-2170	F5	Rhg1a, Rhg2, Rps1k, BSR	Rhg1a+Rhg2

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Entry	SNP marker analysis		
	SCN		
	Rhg1-88788	Rhg1-Peking	Rhg4
1 LD11-2170 (SCN)			
2 U15-606207 (SCN)			
3 LD07-3395bf (SCN)			
4 U14-910097 (SCN)			
5 LD19-2650	S	.	S
6 LD19-5690	R	S	S
7 LD19-6357	R	S	S
8 LD19-6363	R	S	S
9 LD19-6534	R	S	S
10 LD19-6606	R	S	Het
11 LD19-6607	R	S	Het
12 LD19-6615	R	S	S
13 LD19-8565	R	S	S
14 LD19-9093	.	S	R
15 LD19-9742	S	R	R
16 LD19-10182	S	Het	S
17 LD20-5524	R	S	S
18 SA19-10016	R	S	S
19 SA19-10777	R	S	S
20 SA19-12541	S	R	.
21 SA19-28597	.	.	.
22 SA19-28698	R	S	S
23 SA19-9788	S	R	S
24 SA19-9915	S	R	S

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Predicted resistance genes based on SNP marker analysis

Entry	SCN	Iron Chlorosis	Phytophthora	Root Knot Nematode	Brown Stem Rot	Frogeye Leaf Spot	Stem Canker
1 LD11-2170 (SCN)							
2 U15-606207 (SCN)							
3 LD07-3395bf (SCN)							
4 U14-910097 (SCN)							
5 LD19-2650	none	R-(LgN+Ch13)	Het-Rps1k	S	R	S	R
6 LD19-5690	Rhg1_PI88788	R-LgN	Het-Rps1k	S	Het	S	R
7 LD19-6357	Rhg1_PI88788		Rps1k	S	S	S	R
8 LD19-6363	Rhg1_PI88788	R-(LgN+Ch13)	Rps1k	S	S	S	R
9 LD19-6534	Rhg1_PI88788	R-(LgN+Ch13)		S	R	S	R
10 LD19-6606	Rhg1_PI88788	R-LgN	Het-Rps1k	S	R	S	R
11 LD19-6607	Rhg1_PI88788	R-(LgN+Ch13)	Het-Rps1k	S	R	S	R
12 LD19-6615	Rhg1_PI88788	R-LgN	Rps1k	S	R	S	R
13 LD19-8565	Rhg1_PI88788	R-(LgN+Ch13)	Rps1k	S	S	S	R
14 LD19-9093	Rhg4	R-Ch13		S	Het	S	R
15 LD19-9742	Rhg1-Peking+Rhg4	R-Ch13	Rps1c	S	S	S	R
16 LD19-10182	Het-Rhg1-Peking	Het-LgN + R-Ch13		S	S	S	R
17 LD20-5524	Rhg1_PI88788	R-(LgA1+LgN+Ch13)	Rps1k	S	R	S	R
18 SA19-10016	Rhg1_PI88788	R-(LgN+Ch13)	Rps1k	S	S	S	R
19 SA19-10777	Rhg1_PI88788		Rps1k	S	S	S	R
20 SA19-12541	Rhg1-Peking	R-LgN		S	R	S	R
21 SA19-28597	no data	Het-LgA1 + R-Ch13		S	S	S	R
22 SA19-28698	Rhg1_PI88788	R-Ch13	Rps1k	S	S	S	R
23 SA19-9788	Rhg1-Peking	R-(LgN+Ch13)	Het-Rps1k	S	S	S	R
24 SA19-9915	Rhg1-Peking	R-(LgN+Ch13)	Rps1k	S	R	S	R

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2022 Summary

Entry	Yield						Maturity date	Lodging score	Height in.	Seed	
	All bu/a	rank	Infested bu/a	rank	Non-infested bu/a	rank				weight g/100	quality score
Locations	8		7		1		8	7	7	5	5
1 LD11-2170 (SCN)	62.8	5	60.1	12	81.2	6	10/03	1.3	31	16.3	1.6
2 U15-606207 (SCN)	62.2	10	59.2	16	83.2	4	3	1.4	30	16.5	1.6
3 LD07-3395bf (SCN)	66.6	2	64.0	2	84.3	3	4	1.6	30	16.3	1.4
4 U14-910097 (SCN)	67.5	1	66.4	1	75.2	10	0	1.6	30	16.0	1.2
5 LD19-2650	62.7	8	59.9	13	82.6	5	1	1.2	30	16.5	1.4
6 LD19-5690	62.5	9	60.7	9	75.5	9	0	1.3	30	16.4	1.6
7 LD19-6357	58.2	21	56.1	22	72.6	14	-2	1.4	31	18.2	1.6
8 LD19-6363	58.7	20	58.7	19	58.4	21	-2	1.1	29	16.8	1.4
9 LD19-6534	62.2	10	61.1	7	70.2	19	-1	1.3	32	16.5	1.5
10 LD19-6606	59.8	19	62.1	4	43.7	23	0	1.1	33	17.4	1.4
11 LD19-6607	55.5	23	57.6	21	41.0	24	-1	1.4	32	17.6	1.5
12 LD19-6615	62.8	5	61.4	6	72.6	14	-1	1.3	32	15.6	1.4
13 LD19-8565	61.9	14	60.2	10	73.5	13	2	1.4	32	16.7	1.5
14 LD19-9093	62.2	10	60.2	10	75.8	8	3	1.6	35	15.5	1.8
15 LD19-9742	60.7	17	59.0	17	72.2	17	4	1.4	33	15.2	1.8
16 LD19-10182	61.1	16	59.6	14	72.1	18	3	1.3	34	16.0	1.8
17 LD20-5524	64.8	3	63.2	3	76.1	7	3	1.6	33	17.2	1.6
18 SA19-10016	64.1	4	61.1	7	85.1	2	3	1.4	33	14.4	1.6
19 SA19-10777	62.1	13	58.8	18	85.5	1	1	1.2	28	17.0	1.4
20 SA19-12541	62.8	5	61.9	5	69.6	20	3	1.4	30	14.0	1.4
21 SA19-28597	61.2	15	59.3	15	74.5	11	3	1.6	32	15.0	1.2
22 SA19-28698	59.9	18	58.0	20	72.6	14	4	1.3	28	17.8	1.2
23 SA19-9788	51.9	24	52.3	24	49.0	22	2	1.4	30	15.7	1.3
24 SA19-9915	56.0	22	53.4	23	74.4	12	3	1.2	28	14.5	1.6
Mean	61.3		59.8		71.7		1.5	1.4	31.1	16.2	1.5
C.V. %	9.0		8.9		9.5						
LSD(.05)	3.8		4.0		16.8						
Replications	16		14		2						

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Yield (rank)

	Ames	Urbana	Manhattan	Albany	Columbia	Novelty	Phillips	Cook
	IA	IL	KS	MO	MO	MO	NE	NE
SCN HG Type	2.5.7	2.5.7	7	1.2.5.7	2.5.7	1.2.5.7	2.5.7	NI
Strain								
1 LD11-2170 (SCN)	10	2	7	23	14	19	10	6
2 U15-606207 (SCN)	20	3	6	23	5	22	20	4
3 LD07-3395bf (SCN)	2	4	2	16	6	18	3	3
4 U14-910097 (SCN)	6	1	15	8	1	2	1	10
5 LD19-2650	17	19	12	5	21	3	8	5
6 LD19-5690	8	6	22	4	12	15	9	9
7 LD19-6357	21	12	19	20	15	21	13	14
8 LD19-6363	13	22	13	16	11	8	11	21
9 LD19-6534	4	11	16	7	19	20	4	19
10 LD19-6606	1	14	9	22	10	5	6	23
11 LD19-6607	3	23	18	21	16	11	15	24
12 LD19-6615	7	9	7	6	17	10	16	15
13 LD19-8565	19	7	5	9	20	9	23	13
14 LD19-9093	11	16	10	3	18	4	24	8
15 LD19-9742	15	5	21	1	23	13	21	17
16 LD19-10182	9	12	23	15	3	6	17	18
17 LD20-5524	5	8	4	10	22	1	12	7
18 SA19-10016	16	10	17	2	8	16	2	2
19 SA19-10777	14	21	14	14	7	7	14	1
20 SA19-12541	12	17	1	19	2	14	5	20
21 SA19-28597	18	15	8	13	4	23	7	11
22 SA19-28698	24	18	3	11	13	12	18	16
23 SA19-9788	22	20	24	18	24	24	19	22
24 SA19-9915	23	24	20	12	9	17	22	12

2022 SCN PRELIMINARY IIIB

Maturity

	Ames	Urbana	Manhattan	Albany	Columbia	Novelty	Phillips	Cook
	IA	IL	KS	MO	MO	MO	NE	NE
SCN HG Type	2.5.7	2.5.7	7	1.2.5.7	2.5.7	1.2.5.7	2.5.7	NI
Strain								
1 LD11-2170 (SCN)	10/7	9/24	10/02	10/09	9/29	10/07	10/06	10/01
2 U15-606207 (SCN)	2	4	1	0	6	3	0	7
3 LD07-3395bf (SCN)	2	5	3	1	5	4	2	10
4 U14-910097 (SCN)	0	-1	0	0	3	-3	-1	2
5 LD19-2650	2	1	1	1	2	-1	1	3
6 LD19-5690	2	-1	-1	0	1	-4	-1	1
7 LD19-6357	0	-2	1	-7	-1	-4	-1	1
8 LD19-6363	0	-3	0	-5	-1	-5	-2	1
9 LD19-6534	-1	-1	1	-1	1	-4	-3	-1
10 LD19-6606	1	0	2	1	-1	1	-1	-1
11 LD19-6607	0	-1	0	1	-1	-4	-1	-1
12 LD19-6615	0	0	0	-1	-1	-3	-2	-1
13 LD19-8565	2	6	3	1	4	1	0	2
14 LD19-9093	3	7	0	2	3	-2	1	10
15 LD19-9742	4	7	4	1	4	2	2	7
16 LD19-10182	3	9	0	0	4	-1	-1	6
17 LD20-5524	2	5	0	1	3	2	4	9
18 SA19-10016	2	7	1	1	3	-1	2	6
19 SA19-10777	2	0	0	1	3	0	1	3
20 SA19-12541	3	5	2	1	3	4	1	6
21 SA19-28597	3	7	1	1	3	4	1	4
22 SA19-28698	2	9	1	2	3	4	5	8
23 SA19-9788	2	4	0	1	4	-1	1	2
24 SA19-9915	2	8	0	1	4	3	2	6
Planted	6/04	5/17	6/17	6/21	6/07	6/16	5/31	6/02

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Lodging (score)

	Ames	Urbana	Manhattan	Albany	Columbia	Novelty	Phillips	Cook
	IA	IL	KS	MO	MO	MO	NE	NE
SCN HG Type	2.5.7	2.5.7	7	1.2.5.7	2.5.7	1.2.5.7	2.5.7	NI
Strain								
1 LD11-2170 (SCN)	1.0	1.3	1.0	1.5	2.0	1.5		1.0
2 U15-606207 (SCN)	2.0	1.8	1.0	1.3	1.5	1.5		1.0
3 LD07-3395bf (SCN)	2.0	1.5	1.5	1.8	1.8	1.5		1.0
4 U14-910097 (SCN)	2.0	1.5	1.5	1.8	1.8	1.5		1.0
5 LD19-2650	1.5	1.0	1.0	1.0	1.5	1.5		1.0
6 LD19-5690	1.5	1.3	1.0	1.5	1.5	1.5		1.0
7 LD19-6357	2.0	1.0	1.0	1.5	1.5	1.5		1.0
8 LD19-6363	1.0	1.0	1.0	1.3	1.3	1.5		1.0
9 LD19-6534	2.0	1.0	1.0	1.5	1.3	1.5		1.0
10 LD19-6606	1.0	1.0	1.0	1.0	1.3	1.5		1.0
11 LD19-6607	1.5	1.0	1.5	1.3	1.8	1.5		1.0
12 LD19-6615	1.5	1.0	1.0	1.5	1.3	1.5		1.0
13 LD19-8565	1.5	1.5	1.5	1.3	1.3	1.5		1.0
14 LD19-9093	2.0	1.5	1.5	1.8	1.8	2.0		1.0
15 LD19-9742	1.5	1.3	1.0	1.8	1.5	1.5		1.0
16 LD19-10182	1.5	1.3	1.0	1.3	1.5	1.5		1.0
17 LD20-5524	1.5	1.5	1.0	1.8	2.3	2.0		1.0
18 SA19-10016	1.5	1.5	1.5	1.3	1.5	1.5		1.0
19 SA19-10777	1.5	1.0	1.0	1.0	1.5	1.5		1.0
20 SA19-12541	2.0	1.5	1.0	1.0	1.5	1.5		1.0
21 SA19-28597	2.0	1.3	1.5	1.8	2.0	1.5		1.0
22 SA19-28698	1.5	1.3	1.0	1.3	1.5	1.5		1.0
23 SA19-9788	2.0	1.3	1.0	1.3	1.8	1.5		1.0
24 SA19-9915	1.5	1.0	1.0	1.0	1.5	1.5		1.0

2022 SCN PRELIMINARY IIIB

Height (inches)

	Ames	Urbana	Manhattan	Albany	Columbia	Novelty	Phillips	Cook
	IA	IL	KS	MO	MO	MO	NE	NE
SCN HG Type	2.5.7	2.5.7	7	1.2.5.7	2.5.7	1.2.5.7	2.5.7	NI
Strain								
1 LD11-2170 (SCN)	35	36	33	29	29	22		33
2 U15-606207 (SCN)	34	34	32	29	29	25		31
3 LD07-3395bf (SCN)	36	34	31	29	28	23		32
4 U14-910097 (SCN)	34	33	31	30	29	22		30
5 LD19-2650	35	31	32	31	28	24		30
6 LD19-5690	35	35	30	31	28	23		32
7 LD19-6357	35	35	30	30	30	25		31
8 LD19-6363	35	32	30	29	28	22		29
9 LD19-6534	37	32	35	33	29	28		30
10 LD19-6606	38	35	34	31	31	27		33
11 LD19-6607	37	33	32	33	31	29		31
12 LD19-6615	35	35	32	32	29	27		33
13 LD19-8565	35	36	34	33	29	28		32
14 LD19-9093	40	39	37	34	32	29		33
15 LD19-9742	34	36	32	34	32	28		32
16 LD19-10182	36	38	34	33	32	26		36
17 LD20-5524	37	35	31	33	30	27		36
18 SA19-10016	37	38	35	34	30	26		34
19 SA19-10777	29	28	28	27	27	24		32
20 SA19-12541	36	31	29	29	30	25		33
21 SA19-28597	37	35	33	33	31	25		31
22 SA19-28698	27	31	29	30	29	24		30
23 SA19-9788	34	32	29	31	31	27		30
24 SA19-9915	30	27	28	29	27	24		33

2022 SCN PRELIMINARY IIIB

Seed Weight (g/100)

	Ames	Urbana	Manhattan	Albany	Columbia	Novelty	Phillips	Cook
	IA	IL	KS	MO	MO	MO	NE	NE
SCN HG Type	2.5.7	2.5.7	7	1.2.5.7	2.5.7	1.2.5.7	2.5.7	NI
Strain								
1 LD11-2170 (SCN)	16.6	17.4	14.0		16.6		17.1	
2 U15-606207 (SCN)	17.4	17.4	13.2		18.3		16.2	
3 LD07-3395bf (SCN)	16.6	16.9	13.1		18.1		16.8	
4 U14-910097 (SCN)	16.5	16.7	13.2		17.1		16.6	
5 LD19-2650	17.0	17.4	13.2		17.7		17.0	
6 LD19-5690	17.0	17.4	13.6		17.1		16.9	
7 LD19-6357	18.9	19.0	15.2		19.1		18.9	
8 LD19-6363	16.7	17.5	14.6		17.8		17.5	
9 LD19-6534	16.2	17.4	15.0		16.9		16.8	
10 LD19-6606	18.0	18.9	14.9		18.2		17.2	
11 LD19-6607	18.5	18.8	14.3		19.1		17.4	
12 LD19-6615	16.4	17.0	12.6		16.4		15.8	
13 LD19-8565	16.2	17.4	15.0		18.3		16.8	
14 LD19-9093	15.3	17.1	13.8		16.9		14.5	
15 LD19-9742	15.2	16.0	12.5		16.9		15.2	
16 LD19-10182	16.6	17.0	12.7		17.7		15.9	
17 LD20-5524	17.6	19.0	13.6		18.3		17.5	
18 SA19-10016	15.0	15.3	12.2		15.0		14.6	
19 SA19-10777	16.9	18.0	13.8		18.4		18.0	
20 SA19-12541	13.8	15.3	11.8		15.6		13.4	
21 SA19-28597	14.7	16.4	12.3		17.3		14.5	
22 SA19-28698	18.3	18.9	15.3		19.7		16.8	
23 SA19-9788	16.4	16.5	12.9		16.9		15.9	
24 SA19-9915	15.1	15.8	11.2		15.9		14.4	

2022 SCN PRELIMINARY IIIB

Seed Quality (score)

	Ames	Urbana	Manhattan	Albany	Columbia	Novelty	Phillips	Cook
	IA	IL	KS	MO	MO	MO	NE	NE
SCN HG Type	2.5.7	2.5.7	7	1.2.5.7	2.5.7	1.2.5.7	2.5.7	NI
Strain								
1 LD11-2170 (SCN)	2.0	2.0	2.0		1.0		1.0	
2 U15-606207 (SCN)	2.0	2.0	2.0		1.0		1.0	
3 LD07-3395bf (SCN)	1.0	2.0	2.0		1.0		1.0	
4 U14-910097 (SCN)	2.0	1.0	1.0		1.0		1.0	
5 LD19-2650	1.0	1.0	3.0		1.0		1.0	
6 LD19-5690	2.0	2.0	2.0		1.0		1.0	
7 LD19-6357	2.0	2.0	2.0		1.0		1.0	
8 LD19-6363	1.0	2.0	2.0		1.0		1.0	
9 LD19-6534	2.5	2.0	1.0		1.0		1.0	
10 LD19-6606	2.0	1.0	2.0		1.0		1.0	
11 LD19-6607	1.5	2.0	2.0		1.0		1.0	
12 LD19-6615	2.0	1.0	2.0		1.0		1.0	
13 LD19-8565	1.5	1.0	2.0		2.0		1.0	
14 LD19-9093	2.0	2.0	3.0		1.0		1.0	
15 LD19-9742	2.0	2.0	2.0		2.0		1.0	
16 LD19-10182	2.0	2.0	2.0		2.0		1.0	
17 LD20-5524	1.0	1.0	3.0		2.0		1.0	
18 SA19-10016	2.0	2.0	2.0		1.0		1.0	
19 SA19-10777	1.0	2.0	1.0		2.0		1.0	
20 SA19-12541	2.0	1.0	2.0		1.0		1.0	
21 SA19-28597	2.0	1.0	1.0		1.0		1.0	
22 SA19-28698	1.0	1.0	2.0		1.0		1.0	
23 SA19-9788	1.5	1.0	2.0		1.0		1.0	
24 SA19-9915	2.0	2.0	2.0		1.0		1.0	

2022 SCN PRELIMINARY IIIB

Protein (%)

	Ames	Urbana	Manhattan	Albany	Columbia	Novelty	Phillips	Cook
	IA	IL	KS	MO	MO	MO	NE	NE
SCN HG Type	2.5.7	2.5.7	7	1.2.5.7	2.5.7	1.2.5.7	2.5.7	NI
Strain								
1 LD11-2170 (SCN)	34.3	34.3	35.4		35.1		34.9	
2 U15-606207 (SCN)	31.2	34.4	33.6		35.8		33.4	
3 LD07-3395bf (SCN)	31.6	34.0	32.1		33.5		32.3	
4 U14-910097 (SCN)	32.8	33.5	32.9		35.7		32.9	
5 LD19-2650	33.3	35.1	34.8		35.7		35.1	
6 LD19-5690	33.7	35.0	35.8		35.3		35.1	
7 LD19-6357	33.5	35.0	34.9		33.8		35.4	
8 LD19-6363	32.1	34.5	35.1		34.9		33.6	
9 LD19-6534	32.6	34.3	34.5		34.5		33.8	
10 LD19-6606	33.6	34.8	34.4		34.9		34.0	
11 LD19-6607	34.6	35.7	34.5		34.9		34.3	
12 LD19-6615	33.0	35.5	33.7		33.9		33.5	
13 LD19-8565	33.1	35.6	33.6		35.2		34.1	
14 LD19-9093	32.0	33.6	33.8		34.9		32.7	
15 LD19-9742	30.9	33.9	34.0		34.0		32.8	
16 LD19-10182	32.2	35.2	34.9		34.7		32.7	
17 LD20-5524	33.2	34.9	34.2		35.2		34.9	
18 SA19-10016	33.1	34.5	34.0		34.3		33.5	
19 SA19-10777	31.3	33.5	32.9		33.5		32.4	
20 SA19-12541	31.4	31.7	32.3		32.4		32.1	
21 SA19-28597	30.8	33.7	33.3		33.6		32.9	
22 SA19-28698	32.6	34.2	33.1		34.9		33.3	
23 SA19-9788	33.5	33.6	34.3		33.0		33.0	
24 SA19-9915	34.5	35.3	35.0		34.6		32.7	

2022 SCN PRELIMINARY IIIB

Oil (%)

	Ames	Urbana	Manhattan	Albany	Columbia	Novelty	Phillips	Cook
	IA	IL	KS	MO	MO	MO	NE	NE
SCN HG Type	2.5.7	2.5.7	7	1.2.5.7	2.5.7	1.2.5.7	2.5.7	NI
Strain								
1 LD11-2170 (SCN)	19.8	19.7	20.5		21.0		19.1	
2 U15-606207 (SCN)	19.9	19.3	20.5		20.2		19.8	
3 LD07-3395bf (SCN)	20.0	19.2	20.8		20.7		19.8	
4 U14-910097 (SCN)	20.4	20.0	22.0		19.7		19.7	
5 LD19-2650	19.7	18.9	19.6		19.9		18.1	
6 LD19-5690	19.7	18.7	19.6		20.5		18.6	
7 LD19-6357	19.7	19.5	21.1		21.4		18.8	
8 LD19-6363	20.0	19.6	20.9		20.0		19.3	
9 LD19-6534	19.8	19.3	19.9		20.4		19.3	
10 LD19-6606	19.6	20.1	21.4		21.1		19.9	
11 LD19-6607	21.1	19.2	21.6		21.2		19.5	
12 LD19-6615	20.5	18.8	21.2		21.8		20.0	
13 LD19-8565	19.8	18.7	21.7		20.5		19.3	
14 LD19-9093	17.7	17.6	21.8		18.6		17.7	
15 LD19-9742	19.3	18.8	19.8		19.8		18.5	
16 LD19-10182	18.6	17.4	19.4		18.7		18.9	
17 LD20-5524	19.6	18.5	20.9		19.7		19.0	
18 SA19-10016	18.9	19.3	21.4		21.0		18.7	
19 SA19-10777	19.6	19.3	20.9		20.7		19.5	
20 SA19-12541	20.3	20.4	21.4		21.2		19.4	
21 SA19-28597	19.9	18.7	20.5		20.1		18.6	
22 SA19-28698	18.3	17.8	19.9		19.0		17.8	
23 SA19-9788	19.7	19.5	20.4		21.2		19.5	
24 SA19-9915	19.0	18.1	19.1		19.9		19.6	