

2023 SCN PRELIMINARY III

Strain	FPhm	Parentage	Previous testing	Gen. Comp.	Cooperator reported Traits	Cooperator reported 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 A17203-21	WLtbl	DSN11-12073/LD12-459 x U14-924158		F5		
6 A17203-79	PLtbl	DSN11-12073/LD12-459 x U14-924158		F5		
7 A17204-16	PGibl	DSN11-12119/LD13-8466 x U14-924158		F5		
8 A17206-10	PLtbr	DSN11-12119/AR15-258048 x U14-924158		F5		
9 A17206-53	PGibl	DSN11-12119/AR15-258048 x U14-924158		F5		
10 A17206-56	PGbf	DSN11-12119/AR15-258048 x U14-924158		F5		
11 A17206-78	PLtbr	DSN11-12119/AR15-258048 x U14-924158		F5		
12 A17206-8	PGibl	DSN11-12119/AR15-258048 x U14-924158		F5		
13 A17210-24	PTbr	AR15-258048/SA13-1310 x U14-924158		F5		
14 A17210-35	PTbl	AR15-258048/SA13-1310 x U14-924158		F5		
15 A17210-40	PLtbr	AR15-258048/SA13-1310 x U14-924158		F5		
16 A17210-60	PLtbr	AR15-258048/SA13-1310 x U14-924158		F5		
17 LD20-1718	PLtbr	LD11-2170 x LD12-3903		F5		Rhg1 88788
18 LD20-1797	PLtbl	LD11-2170 x LD12-3903		F5		Rhg1 88788
19 LD20-5010	PGbf	LD12-3903 x LD11-2170		F5		Rhg 4, Rhg1 (437654)
20 LD20-5015	PGbf	U14-910097 x LD11-2170		F5		Rhg 4, Rhg1 (437654)
21 LD20-5413	PGibl	U14-925152 x LD12-3903		F5		Rhg 4, Rhg1 (437654)
22 LD20-5724	WLtbl	E3796 x LD11-2170		F5		Rhg1 88788
23 LD20-11626	PLtbr/bl	LD12-3903 x LD11-2170		F5		Rhg1 88788
24 S20-2017	PGibl	S13-2743C x K14-1717			SC,BSR	PI88788-type
25 SA19-10545	PLtbr	SA13-2699 x LD11-2170		F5	Rps1k, Rdc3, BSR	Rhg1-b
26 SA19-10687	PLtbr	SA13-2926 x LD11-2170		F5	Rps1k, Rdc3	Rhg1-b
27 SA19-12549	PLtbl	U14-924158 x LD11-2170		F5	Rps1k, Rdc3	Rhg1-a, Rhg2?
28 SA20-2256	PLtbl	SA13-1385 x 18AS-9		F5	Rps1a, Rdc3, BSR	Rhg1-b
29 SA20-9732	PLtbl	SA16-13740 x U14-924158		F5	Rdc3	Rhg1-a, Rhg2?
30 SA20-9978	PGibl	SA16-13847 x U14-211226		F5	Rps1c, Rdc3, Rcs3, BSR	Rhg1-b
31 U19-052043	PGibl	LD12-459 x U14-910097		F5	Rps	PI 88788, PI 437654
32 U19-053111	PT+L+Gbl/b	LD12-3903 x U14-910097		F5	Rps	PI 88788, PI 437654
33 U19-053145	PGbf/ibl	LD12-3903 x U14-910097		F5	Rps	PI 88788, PI 437654
34 U19-057139	PTbl	U14-903100 x LD12-3903		F5	Rps	PI 88788
35 U19-061113	PLtbl	U14-903100 x U14-924158		F5	IDC, Rps	PI 88788, PI 437654
36 U19-075083	PGibl	U14-925152 x SA13-1310		F5	IDC, Rps	PI 88788, PI 437654
37 U19-075094	PGibl	U14-925152 x SA13-1310		F5	IDC, Rps	PI 88788, PI 437654
38 U19-218017	PGbf	U14-910097 x U14-909100		F5	Rps	PI 88788, PI 437654
39 U19-221005	PGbf	U14-910097 x U14-909100		F5	Rps	PI 88788, PI 437654
40 U20-934093	PLtbr	U14-910097 x U14-212231		F5	Rps	PI 88788, PI 437654

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Entry	MO SCN screening						SNP marker analysis			Root Knot
	HG 7		HG 2.5.7		HG 1.2.5.7		SCN			Nematode
	FI	rating	FI	rating	FI	rating	Rhg1-88788	Rhg1-Peking	Rhg4	
1 LD11-2170 (SCN)							R	S	S	S
2 U15-606207 (SCN)							S	R	R	S
3 LD07-3395bf (SCN)							S	R	R	S
4 U14-910097 (SCN)							S	R	R	S
5 A17203-21	Preliminary Test Entries not screened						R	S	Het	S
6 A17203-79							R	S	S	S
7 A17204-16							S	S	S	S
8 A17206-10							S	R	R	S
9 A17206-53							S	R	R	S
10 A17206-56							S	R	Het	S
11 A17206-78							Het	Het	S	S
12 A17206-8							S	R	R	S
13 A17210-24							S	R	R	S
14 A17210-35							S	R	R	S
15 A17210-40							R	S	R	S
16 A17210-60							R	S	S	S
17 LD20-1718							R	S	S	S
18 LD20-1797							R	S	S	S
19 LD20-5010							S	R	R	S
20 LD20-5015							S	R	R	S
21 LD20-5413							S	R	R	S
22 LD20-5724							R	S	S	S
23 LD20-11626							R	S	S	S
24 S20-2017							R	S	S	S
25 SA19-10545							R	S	S	S
26 SA19-10687							R	S	-	S
27 SA19-12549							S	R	S	S
28 SA20-2256							R	S	S	S
29 SA20-9732							S	R	S	S
30 SA20-9978							R	S	S	S
31 U19-052043							S	R	S	S
32 U19-053111							Het	Het	Het	S
33 U19-053145							R	S	S	S
34 U19-057139							Het	S	S	S
35 U19-061113							S	S	S	S
36 U19-075083							S	R	-	S
37 U19-075094							S	R	S	S
38 U19-218017							R	S	R	S
39 U19-221005							R	S	R	S
40 U20-934093							S	S	R	S

(-)=missing data

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	SNP marker analysis												
	Iron Chlorosis			Phytophthora							Brown stem rot	Frogeye leaf spot	Stem canker
	Fec-LgA1	Fec-LgN	Ch13	Rps1a	Rps1c	Rps1d	Rps1k	Rps2	Rps3a	Rps6			
1 LD11-2170 (SCN)	S	R	-	S	S	S	R	S	S	S	-	S	R
2 U15-606207 (SCN)	S	R	R	S	S	S	S	S	S	R	S	S	R
3 LD07-3395bf (SCN)	S	R	R	S	S	S	S	S	S	S	S	S	R
4 U14-910097 (SCN)	Het	S	R	S	S	S	S	S	S	S	S	S	R
5 A17203-21	Het	R	R	S	S	S	S	S	S	S	S	S	R
6 A17203-79	R	R	R	S	S	S	S	S	S	S	S	S	R
7 A17204-16	S	R	R	S	S	S	S	S	S	S	S	S	S
8 A17206-10	R	R	R	S	S	S	S	S	S	S	S	S	R
9 A17206-53	S	R	R	S	S	S	S	S	S	S	S	S	R
10 A17206-56	R	S	R	S	R	S	S	S	S	S	S	S	R
11 A17206-78	S	R	R	R	S	S	S	S	S	S	R	S	R
12 A17206-8	S	S	R	S	S	S	S	S	S	S	S	S	R
13 A17210-24	R	R	R	S	S	S	S	S	S	S	S	S	R
14 A17210-35	S	R	R	S	S	S	S	S	S	S	S	S	R
15 A17210-40	Het	Het	R	S	S	S	S	S	S	S	S	S	R
16 A17210-60	S	S	R	S	S	S	S	S	S	S	R	S	R
17 LD20-1718	S	S	-	S	R	S	S	S	S	S	R	S	R
18 LD20-1797	S	R	S	S	R	S	S	S	S	S	R	S	R
19 LD20-5010	S	R	S	S	S	S	R	S	S	S	S	S	R
20 LD20-5015	S	R	S	S	S	S	R	S	S	S	S	S	R
21 LD20-5413	R	S	R	S	R	S	S	S	S	S	R	S	R
22 LD20-5724	S	-	R	S	-	S	S	S	S	S	R	S	R
23 LD20-11626	-	Het	Het	S	Het	S	-	S	S	S	R	S	R
24 S20-2017	S	R	Het	S	S	S	S	S	S	S	R	S	R
25 SA19-10545	S	Het	S	S	S	S	Het	S	S	S	-	S	R
26 SA19-10687	S	S	S	S	S	S	R	S	S	S	S	S	R
27 SA19-12549	S	R	R	S	S	S	R	S	S	S	S	S	R
28 SA20-2256	-	Het	R	Het	S	S	S	S	S	S	R	S	R
29 SA20-9732	S	R	S	S	S	S	S	S	S	S	S	S	R
30 SA20-9978	S	S	R	S	R	S	S	S	S	S	R	R	R
31 U19-052043	S	S	R	S	S	S	S	S	S	S	S	S	R
32 U19-053111	Het	S	R	S	S	S	S	S	S	S	Het	S	R
33 U19-053145	Het	Het	Het	S	S	S	-	S	S	S	R	S	R
34 U19-057139	R	S	R	S	S	S	S	S	S	Het	S	S	R
35 U19-061113	Het	S	R	S	S	S	S	S	S	-	Het	S	R
36 U19-075083	S	R	R	S	S	S	S	S	S	S	R	S	R
37 U19-075094	S	Het	R	S	S	S	S	S	S	S	S	S	R
38 U19-218017	R	S	R	S	S	S	S	S	S	S	S	S	R
39 U19-221005	R	S	R	S	S	S	S	S	S	S	S	S	R
40 U20-934093	R	S	R	S	S	S	S	S	S	S	S	S	R

(-)=missing data

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Predicted resistance genes based on SNP marker analysis

Entry	SCN	Iron Chlorosis	Phytophthora
1 LD11-2170 (SCN)	Rhg1_PI88788	LgN	Rps1k
2 U15-606207 (SCN)	Rhg1_Peking, Rhg4_Peking	LgN+Ch13	Rps6
3 LD07-3395bf (SCN)	Rhg1_Peking, Rhg4_Peking	LgN+Ch13	
4 U14-910097 (SCN)	Rhg1_Peking, Rhg4_Peking	H-LgA+Ch13	
5 A17203-21	Rhg1_PI88788, Het-Rhg4_Peking	H-LgA+LgN+Ch13	
6 A17203-79	Rhg1_PI88788	LgA+LgN+Ch13	
7 A17204-16	None	LgN+Ch13	
8 A17206-10	Rhg1_Peking, Rhg4_Peking	LgA+LgN+Ch13	
9 A17206-53	Rhg1_Peking, Rhg4_Peking	LgN+Ch13	
10 A17206-56	Rhg1_Peking, Het-Rhg4_Peking	LgA+Ch13	Rps1c
11 A17206-78	Het-Rhg1_PI88788&Peking	LgN+Ch13	Rps1a
12 A17206-8	Rhg1_Peking, Rhg4_Peking	Ch13	
13 A17210-24	Rhg1_Peking, Rhg4_Peking	LgA+LgN+Ch13	
14 A17210-35	Rhg1_Peking, Rhg4_Peking	LgN+Ch13	
15 A17210-40	Rhg1_PI88788, Rhg4_Peking	H-LgA+H-LgN+Ch13	
16 A17210-60	Rhg1_PI88788	Ch13	
17 LD20-1718	Rhg1_PI88788		Rps1c
18 LD20-1797	Rhg1_PI88788	LgN	Rps1c
19 LD20-5010	Rhg1_Peking, Rhg4_Peking	LgN	Rps1k
20 LD20-5015	Rhg1_Peking, Rhg4_Peking	LgN	Rps1k
21 LD20-5413	Rhg1_Peking, Rhg4_Peking	LgA+Ch13	Rps1c
22 LD20-5724	Rhg1_PI88788	Ch13	
23 LD20-11626	Rhg1_PI88788	H-LgN+H-Ch13	H-Rps1c
24 S20-2017	Rhg1_PI88788	LgN+H-Ch13	
25 SA19-10545	Rhg1_PI88788	H-LgN	H-Rps1k
26 SA19-10687	Rhg1_PI88788		Rps1k
27 SA19-12549	Rhg1_Peking	LgN+Ch13	Rps1k
28 SA20-2256	Rhg1_PI88788	H-LgN+Ch13	H-Rps1a
29 SA20-9732	Rhg1_Peking	LgN	
30 SA20-9978	Rhg1_PI88788	Ch13	Rps1c
31 U19-052043	Rhg1_Peking	Ch13	
32 U19-053111	Het-Rhg1_PI88788,Peking,Het-Rhg4_Peking	H-LgA+Ch13	
33 U19-053145	Rhg1_PI88788	H-LgA+H-LgN+H-Ch13	
34 U19-057139	Het-Rhg1_PI88788	LgA+Ch13	H-Rps6
35 U19-061113	None	H-LgA+Ch13	
36 U19-075083	Rhg1_Peking	LgN+Ch13	
37 U19-075094	Rhg1_Peking	H-LgN+Ch13	
38 U19-218017	Rhg1_PI88788, Rhg4_Peking	LgA+Ch13	
39 U19-221005	Rhg1_PI88788, Rhg4_Peking	LgA+Ch13	
40 U20-934093	Rhg4_Peking	LgA+Ch13	

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2023 Summary

Entry	Yield								Seed				
	All		Infested		Non-infested		Maturity	Lodging	Height	weight	quality	protein	oil
	bu/a	rank	bu/a	rank	bu/a	rank	date	score	in.	g/100	score	@13%	@13%
Locations	8*		4		4*		5*	8	7	7	6	5	5
1 LD11-2170 (SCN)	73.1	14	69.1	28	77.1	7	9/25	1.3	35	14.8	1.5	34.7	20.3
2 U15-606207 (SCN)	72.7	15	69.2	27	76.2	13	1.6	1.4	37	15.3	1.5	33.2	20.2
3 LD07-3395bf (SCN)	71.9	20	69.0	29	74.8	17	3.4	1.3	34	15.2	1.7	33.2	20.0
4 U14-910097 (SCN)	74.0	10	69.3	24	78.8	2	-1.2	1.8	34	15.0	1.3	34.3	20.4
5 A17203-21	71.7	25	74.3	3	69.0	33	-0.8	1.6	38	15.3	1.5	33.6	19.6
6 A17203-79	74.1	9	71.3	14	76.9	11	-0.6	1.4	38	15.3	1.1	33.4	20.2
7 A17204-16	74.0	10	72.5	11	75.6	16	2.0	2.0	42	15.1	1.3	32.9	20.6
8 A17206-10	74.0	10	73.8	4	74.3	18	-0.8	1.3	35	15.2	1.2	32.2	20.9
9 A17206-53	72.4	16	68.5	32	76.3	12	2.4	1.4	39	15.1	2.0	33.3	19.7
10 A17206-56	72.2	18	70.6	17	73.7	21	0.4	1.5	38	15.4	1.3	33.2	20.6
11 A17206-78	71.9	20	70.0	21	73.7	21	-1.0	1.4	35	14.8	1.8	33.8	20.9
12 A17206-8	69.9	32	72.8	8	67.0	40	0.6	1.3	37	12.2	1.8	32.5	19.7
13 A17210-24	73.2	13	68.6	31	77.8	4	1.0	1.3	37	14.4	1.5	32.5	20.8
14 A17210-35	71.4	28	72.7	10	70.0	32	3.4	1.3	40	14.4	1.2	33.0	20.9
15 A17210-40	68.6	35	69.3	24	67.9	37	4.0	1.6	40	15.4	1.2	33.0	20.5
16 A17210-60	67.5	36	66.2	36	68.7	35	0.8	1.5	38	16.1	1.3	35.0	20.5
17 LD20-1718	74.6	7	69.9	22	79.4	1	0.6	1.3	37	16.4	1.3	34.1	20.5
18 LD20-1797	71.6	27	70.1	19	73.0	25	2.2	1.2	35	16.2	1.8	34.8	19.9
19 LD20-5010	72.4	16	70.6	17	74.2	19	0.0	1.2	35	12.7	1.0	33.3	20.4
20 LD20-5015	75.0	5	74.4	2	75.7	15	1.0	1.2	35	13.2	1.3	33.5	20.3
21 LD20-5413	75.4	2	73.8	4	77.0	10	0.8	1.4	36	14.0	1.3	34.2	20.1
22 LD20-5724	72.1	19	71.0	16	73.2	23	1.2	1.2	36	13.6	1.2	34.6	19.4
23 LD20-11626	68.9	34	69.0	30	68.8	34	-0.8	1.4	37	15.6	1.3	34.6	20.0
24 S20-2017	69.9	32	67.2	34	72.5	26	6.6	1.9	41	16.1	1.0	35.5	18.3
25 SA19-10545	75.6	1	75.2	1	76.0	14	2.4	1.3	37	13.9	1.3	34.0	19.4
26 SA19-10687	74.2	8	71.3	14	77.1	7	4.6	1.6	37	16.3	1.8	34.0	19.9
27 SA19-12549	71.9	20	73.4	6	70.5	30	2.8	1.2	35	13.0	1.2	32.8	19.7
28 SA20-2256	71.7	25	72.4	12	71.1	29	3.6	1.4	37	15.1	1.3	33.7	19.5
29 SA20-9732	65.5	39	63.7	38	67.4	38	5.5	1.5	39	13.5	1.0	33.7	19.9
30 SA20-9978	63.5	40	59.6	40	67.4	39	5.0	1.9	43	16.6	1.5	34.0	19.7
31 U19-052043	67.3	37	66.1	37	68.4	36	0.0	1.8	36	13.9	1.7	33.6	20.1
32 U19-053111	71.8	24	69.7	23	73.9	20	1.8	1.6	37	15.0	1.7	34.2	19.8
33 U19-053145	75.2	4	73.0	7	77.4	5	3.6	1.3	35	15.6	1.8	34.2	20.1
34 U19-057139	71.9	20	66.7	35	77.1	7	0.0	1.2	35	16.3	1.5	32.3	20.8
35 U19-061113	70.3	31	68.5	32	72.1	28	1.6	1.2	36	15.8	1.2	33.9	20.1
36 U19-075083	71.2	30	70.1	20	72.3	27	1.4	1.2	38	14.6	1.7	34.3	20.5
37 U19-075094	66.7	38	63.3	39	70.1	31	1.8	1.4	38	14.2	1.7	33.6	20.9
38 U19-218017	75.3	3	71.9	13	78.7	3	0.6	1.6	37	15.3	2.2	33.4	20.3
39 U19-221005	71.3	29	69.3	24	73.2	23	0.6	1.5	39	16.0	1.8	33.4	20.6
40 U20-934093	75.0	5	72.8	8	77.2	6	2.8	1.6	41	15.2	1.5	32.8	21.0
Mean	71.8		70.0		73.5		1.7	1.4	37.2	14.9	1.5	33.7	20.2
C.V. %	9.0		7.8		10.0		7.7	25.3	5.2				
LSD(.05)	4.5		5.4		7.3		1.7	0.3	1.8				
Replications	16		8		8		10	16	14				

*Rock Port, MO yield data not included in means.

*Novely, MO and Manhattan, KS maturity data not included in means.

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Yield (rank)

SCN HG Type	Yield (rank)				Crawfords-		Rock		Phillips	
	Ames	Urbana	Novelty	Lincoln	ville	Manhattan	Port	Cook	Phillips	
	IA	IL	MO	NE	IA	KS	MO	NE	NE	
Strain	2.5.7	2.5.7	1.2.5.7	2.5.7	NI	NI	NI	NI	NI	
1 LD11-2170 (SCN)	24	23	22	26	4	18	29	5	23	
2 U15-606207 (SCN)	20	23	18	29	10	5	11	31	14	
3 LD07-3395bf (SCN)	32	7	28	31	15	10	18	11	35	
4 U14-910097 (SCN)	40	3	4	25	8	3	25	9	17	
5 A17203-21	9	7	7	7	36	35	30	24	32	
6 A17203-79	7	21	25	6	22	20	30	7	8	
7 A17204-16	12	10	2	32	26	1	1	28	20	
8 A17206-10	2	27	22	5	3	11	6	30	30	
9 A17206-53	35	18	31	11	30	17	10	17	2	
10 A17206-56	26	31	9	9	19	27	2	34	4	
11 A17206-78	18	20	35	20	13	15	-	25	28	
12 A17206-8	15	9	36	3	34	31	35	40	26	
13 A17210-24	23	1	38	30	7	6	28	22	7	
14 A17210-35	10	18	15	15	35	22	16	21	34	
15 A17210-40	31	16	10	14	33	32	19	37	36	
16 A17210-60	30	28	11	39	37	24	9	38	25	
17 LD20-1718	16	35	25	23	18	2	4	8	11	
18 LD20-1797	3	11	36	35	14	21	23	2	40	
19 LD20-5010	27	13	13	18	20	28	11	12	21	
20 LD20-5015	11	5	5	13	6	4	26	32	24	
21 LD20-5413	1	4	32	27	5	25	5	13	6	
22 LD20-5724	6	22	15	33	2	16	20	33	33	
23 LD20-11626	19	30	20	28	25	38	3	26	29	
24 S20-2017	34	32	33	16	39	12	-	20	3	
25 SA19-10545	13	13	21	1	23	29	36	4	12	
26 SA19-10687	8	34	1	34	11	6	13	16	16	
27 SA19-12549	22	12	22	2	24	37	21	14	39	
28 SA20-2256	17	2	29	21	31	39	7	18	1	
29 SA20-9732	37	15	-	38	38	39	-	15	37	
30 SA20-9978	38	36	-	40	40	26	-	29	31	
31 U19-052043	28	39	3	37	17	33	8	27	38	
32 U19-053111	21	33	14	19	27	13	27	23	5	
33 U19-053145	4	26	6	22	16	14	21	10	9	
34 U19-057139	33	40	27	17	28	9	33	6	15	
35 U19-061113	28	37	30	8	21	30	13	19	27	
36 U19-075083	25	17	12	24	12	23	24	39	13	
37 U19-075094	39	38	8	36	32	34	34	36	18	
38 U19-218017	14	29	17	10	29	6	32	3	10	
39 U19-221005	36	6	33	4	9	19	15	35	22	
40 U20-934093	5	25	19	12	1	36	17	1	19	

2023 SCN PRELIMINARY III

SCN HG Type	Maturity								
	Ames	Urbana	Novelty	Lincoln	Crawfords-ville	Manhattan	Rock	Cook	Phillips
	IA	IL	MO	NE	IA	KS	MO	NE	NE
	2.5.7	2.5.7	1.2.5.7	2.5.7	NI	NI	NI	NI	NI
Strain									
1 LD11-2170 (SCN)	9/26	9/20	9/30	9/23		9/28	9/29	9/25	
2 U15-606207 (SCN)	4	4	0	1		4	1	-2	
3 LD07-3395bf (SCN)	5	7	1	3		1	2	0	
4 U14-910097 (SCN)	2	0	0	-1		-2	-2	-5	
5 A17203-21	0	0	0	-2		-1	0	-2	
6 A17203-79	0	2	0	-1		0	-1	-3	
7 A17204-16	3	5	0	1		5	1	0	
8 A17206-10	-1	0	0	0		-4	0	-3	
9 A17206-53	3	5	0	2		-5	2	0	
10 A17206-56	1	3	0	0		-3	0	-2	
11 A17206-78	-2	0	0	-4		-5	4	-3	
12 A17206-8	2	5	0	0		-5	0	-4	
13 A17210-24	0	5	0	1		-3	1	-2	
14 A17210-35	4	7	0	5		-4	4	-3	
15 A17210-40	6	8	0	4		-4	0	2	
16 A17210-60	1	2	0	1		-4	0	0	
17 LD20-1718	1	0	0	1		-3	0	1	
18 LD20-1797	3	2	0	1		-1	3	2	
19 LD20-5010	1	2	0	2		-5	-2	-3	
20 LD20-5015	2	4	0	1		-3	0	-2	
21 LD20-5413	1	1	0	0		-3	1	1	
22 LD20-5724	3	4	0	1		-4	2	-4	
23 LD20-11626	-1	1	0	1		-5	-1	-4	
24 S20-2017	6	8	2	8		-1	6	5	
25 SA19-10545	4	4	0	1		-5	0	3	
26 SA19-10687	5	6	1	5		3	2	5	
27 SA19-12549	5	4	0	4		-5	3	-2	
28 SA20-2256	5	6	0	4		-3	5	-2	
29 SA20-9732	6	8	-	7		-5	-	1	
30 SA20-9978	5	6	-	3		-4	-	6	
31 U19-052043	2	0	0	-1		-2	2	-3	
32 U19-053111	4	2	0	1		-5	1	1	
33 U19-053145	5	4	0	6		2	3	0	
34 U19-057139	1	1	0	1		-4	0	-3	
35 U19-061113	3	3	0	1		-3	3	-2	
36 U19-075083	0	4	0	3		-2	0	0	
37 U19-075094	3	3	0	1		-3	0	2	
38 U19-218017	2	0	0	1		-3	3	-3	
39 U19-221005	0	3	0	2		-2	1	-3	
40 U20-934093	4	3	0	1		-3	3	3	
Planted	5/24	5/15	6/14	5/24	5/04	6/16	6/03	5/19	5/23

2023 SCN PRELIMINARY III

Lodging (score)

SCN HG Type	Crawfords-				Rock		Cook	Phillips	
	Ames	Urbana	Novelty	Lincoln	ville	Manhattan			Port
	IA	IL	MO	NE	IA	KS			MO
	2.5.7	2.5.7	1.2.5.7	2.5.7	NI	NI	NI	NI	NI
Strain									
1 LD11-2170 (SCN)	1.0	1.0	1.5	1.5		1.0	1.5	1.5	1.0
2 U15-606207 (SCN)	1.0	1.0	1.5	1.0		1.0	2.0	2.3	1.0
3 LD07-3395bf (SCN)	1.0	1.0	1.5	1.0		1.0	1.0	2.5	1.0
4 U14-910097 (SCN)	2.5	1.5	1.5	2.0		1.0	1.5	2.8	1.0
5 A17203-21	2.0	1.0	1.5	1.5		1.0	1.5	2.8	1.0
6 A17203-79	1.0	1.0	1.5	1.0		1.0	1.5	2.5	1.0
7 A17204-16	2.0	1.0	1.5	2.0		1.0	3.0	3.3	1.0
8 A17206-10	1.0	1.0	1.5	1.0		1.0	1.5	1.8	1.0
9 A17206-53	1.5	1.0	1.5	1.0		1.0	2.0	1.8	1.0
10 A17206-56	1.0	1.0	1.5	1.0		1.0	3.0	2.3	1.0
11 A17206-78	1.5	1.0	1.5	1.5		1.0	1.0	2.5	1.0
12 A17206-8	1.0	1.0	1.5	1.0		1.0	1.5	2.3	1.0
13 A17210-24	1.0	1.0	1.5	1.0		1.0	1.5	1.8	1.0
14 A17210-35	1.0	1.0	1.5	1.0		1.0	2.0	1.5	1.0
15 A17210-40	2.0	1.0	1.5	1.0		1.0	1.5	3.5	1.0
16 A17210-60	1.0	1.0	1.5	1.5		1.0	2.0	2.8	1.0
17 LD20-1718	1.0	1.0	1.5	1.0		1.0	2.0	1.5	1.0
18 LD20-1797	1.0	1.0	1.5	1.5		1.0	1.0	1.5	1.0
19 LD20-5010	1.0	1.0	1.5	1.0		1.0	1.5	1.3	1.0
20 LD20-5015	1.0	1.0	1.5	1.0		1.0	1.5	1.3	1.0
21 LD20-5413	1.0	1.0	1.5	1.5		1.0	1.5	2.0	1.0
22 LD20-5724	1.0	1.0	1.5	1.0		1.0	1.5	1.3	1.0
23 LD20-11626	1.0	1.0	1.5	1.0		1.0	1.5	2.8	1.0
24 S20-2017	2.0	1.0	2.0	2.0		1.0	1.5	3.5	1.0
25 SA19-10545	1.0	1.0	1.5	1.0		1.0	1.5	1.8	1.0
26 SA19-10687	1.5	1.0	1.5	2.0		1.0	2.0	2.5	1.0
27 SA19-12549	1.0	1.0	1.5	1.0		1.0	1.5	1.5	1.0
28 SA20-2256	1.5	1.0	1.5	1.0		1.0	1.5	2.0	1.0
29 SA20-9732	1.5	1.0	-	1.5		1.0	-	2.3	1.0
30 SA20-9978	2.0	1.5	-	2.0		1.0	-	2.8	1.0
31 U19-052043	2.5	1.0	1.5	1.0		1.0	2.5	3.0	1.0
32 U19-053111	2.0	1.0	1.5	1.0		1.0	1.5	3.0	1.0
33 U19-053145	1.0	1.0	1.5	1.0		1.0	1.5	1.8	1.0
34 U19-057139	1.0	1.0	1.5	1.0		1.0	1.5	1.3	1.0
35 U19-061113	1.0	1.0	1.5	1.0		1.0	1.5	1.3	1.0
36 U19-075083	1.0	1.0	1.5	1.0		1.0	1.0	2.0	1.0
37 U19-075094	1.0	1.0	1.5	1.5		1.0	1.0	2.5	1.0
38 U19-218017	1.5	1.0	1.5	2.0		1.0	1.5	3.0	1.0
39 U19-221005	1.0	1.0	1.5	1.5		1.0	2.5	2.3	1.0
40 U20-934093	2.0	1.0	1.5	1.0		1.0	2.5	2.5	1.0

2023 SCN PRELIMINARY III

Height (inches)

SCN HG Type	Crawfords-				Rock		Cook	Phillips	
	Ames	Urbana	Novelty	Lincoln	ville	Manhattan			Port
	IA	IL	MO	NE	IA	KS			MO
	2.5.7	2.5.7	1.2.5.7	2.5.7	NI	NI	NI	NI	NI
Strain									
1 LD11-2170 (SCN)	37	31	29	44		29	34	42	
2 U15-606207 (SCN)	40	33	30	42		34	39	43	
3 LD07-3395bf (SCN)	37	32	30	41		32	28	39	
4 U14-910097 (SCN)	37	31	28	40		34	30	38	
5 A17203-21	39	34	33	45		39	37	42	
6 A17203-79	41	35	32	45		35	33	44	
7 A17204-16	47	35	37	49		40	43	44	
8 A17206-10	38	31	28	39		33	35	40	
9 A17206-53	43	34	31	48		35	38	47	
10 A17206-56	40	35	33	43		34	41	44	
11 A17206-78	43	33	31	42		34	22	41	
12 A17206-8	43	34	30	42		33	33	43	
13 A17210-24	41	36	30	45		36	30	46	
14 A17210-35	43	35	32	46		36	41	44	
15 A17210-40	50	36	34	46		37	33	44	
16 A17210-60	39	33	33	45		34	37	43	
17 LD20-1718	40	31	31	42		34	39	42	
18 LD20-1797	40	32	30	43		32	31	41	
19 LD20-5010	38	32	31	42		28	34	42	
20 LD20-5015	40	32	30	42		32	30	42	
21 LD20-5413	39	31	31	42		34	35	39	
22 LD20-5724	40	31	30	42		31	37	42	
23 LD20-11626	42	32	31	42		34	40	43	
24 S20-2017	47	39	35	49		34	35	46	
25 SA19-10545	42	32	31	45		35	33	40	
26 SA19-10687	40	31	30	44		35	37	41	
27 SA19-12549	38	34	31	45		32	26	42	
28 SA20-2256	40	33	31	44		31	35	43	
29 SA20-9732	40	38	-	46		31	-	43	
30 SA20-9978	44	37	-	47		38	-	49	
31 U19-052043	38	32	32	42		32	37	41	
32 U19-053111	42	31	30	44		35	31	44	
33 U19-053145	40	30	31	40		32	30	40	
34 U19-057139	36	30	30	43		32	31	42	
35 U19-061113	40	33	31	44		36	28	44	
36 U19-075083	41	36	31	47		36	33	41	
37 U19-075094	40	35	35	46		36	33	43	
38 U19-218017	43	34	32	42		35	31	40	
39 U19-221005	41	35	34	42		35	41	43	
40 U20-934093	47	38	33	47		36	39	48	

2023 SCN PRELIMINARY III

Seed Weight (g/100)

SCN HG Type	Crawfords-				Rock		Cook NE NI	Phillips NE NI	
	Ames	Urbana	Novelty	Lincoln	ville	Manhattan			Port
	IA	IL	MO	NE	IA	KS			MO
Strain	2.5.7	2.5.7	1.2.5.7	2.5.7	NI	NI	NI	NI	
1 LD11-2170 (SCN)	16.3	17.1	14.0			9.9	14.4	15.9	16.3
2 U15-606207 (SCN)	15.7	17.1	14.1			13.5	15.3	15.6	16.0
3 LD07-3395bf (SCN)	15.3	17.2	15.6			10.8	15.1	16.2	16.0
4 U14-910097 (SCN)	16.6	17.5	13.6			11.6	14.7	15.9	15.3
5 A17203-21	17.4	17.7	14.5			11.9	14.6	15.5	15.4
6 A17203-79	16.2	16.6	14.9			13.9	13.9	15.8	16.0
7 A17204-16	17.1	16.3	13.5			13.9	15.1	15.0	14.9
8 A17206-10	16.1	16.4	14.4			12.7	14.7	15.6	16.6
9 A17206-53	16.3	17.8	14.5			11.1	14.2	16.4	15.5
10 A17206-56	16.6	17.7	13.9			12.7	15.6	15.5	15.6
11 A17206-78	14.9	16.2	13.6			12.9	16.1	14.7	15.4
12 A17206-8	12.9	14.4	12.1			9.0	12.2	12.2	12.8
13 A17210-24	15.1	16.7	12.7			11.4	15.7	14.3	14.8
14 A17210-35	16.4	16.7	13.2			10.0	13.9	14.9	15.5
15 A17210-40	17.2	17.6	14.7			10.1	16.1	15.4	16.4
16 A17210-60	18.1	18.7	15.8			11.8	15.4	15.8	16.8
17 LD20-1718	18.0	18.0	15.5			14.6	15.9	16.7	16.4
18 LD20-1797	18.3	19.2	15.2			10.0	16.4	17.0	17.3
19 LD20-5010	12.7	15.0	11.8			10.7	12.4	13.2	13.0
20 LD20-5015	14.0	15.2	13.1			11.3	12.1	13.2	13.7
21 LD20-5413	15.5	17.6	13.3			9.2	14.0	14.4	14.3
22 LD20-5724	15.2	15.9	14.0			9.2	13.5	12.7	14.5
23 LD20-11626	17.4	19.1	15.4			11.0	14.2	15.7	16.8
24 S20-2017	17.8	18.2	15.5			11.9	15.9	17.1	16.3
25 SA19-10545	14.7	16.5	13.2			9.2	13.7	15.7	14.6
26 SA19-10687	18.6	19.8	15.5			11.5	14.4	17.3	17.1
27 SA19-12549	13.3	14.2	12.4			11.1	14.2	13.1	13.0
28 SA20-2256	17.2	17.7	14.6			10.3	14.8	15.4	16.0
29 SA20-9732	14.9	14.9	-			10.4	-	13.7	13.6
30 SA20-9978	17.2	19.0	-			13.4	-	16.4	16.8
31 U19-052043	15.8	16.2	12.7			11.9	12.9	14.0	13.5
32 U19-053111	17.5	17.7	13.8			13.0	14.7	13.8	14.3
33 U19-053145	17.1	18.7	14.5			12.3	15.1	15.9	15.5
34 U19-057139	16.9	19.9	14.9			13.5	15.2	16.9	16.5
35 U19-061113	16.7	17.7	14.9			11.5	17.0	16.3	16.7
36 U19-075083	15.7	16.8	13.9			11.6	14.2	14.0	16.1
37 U19-075094	14.7	16.3	13.9			11.5	12.9	14.7	15.4
38 U19-218017	17.7	18.0	14.0			11.9	14.4	15.9	15.3
39 U19-221005	16.7	19.2	14.9			12.5	15.8	15.8	16.8
40 U20-934093	17.6	17.8	14.6			10.7	14.7	15.4	15.7

2023 SCN PRELIMINARY III

Seed Quality (score)

SCN HG Type				Crawfords-		Rock			
	Ames	Urbana	Novelty	Lincoln	ville	Manhattan	Port	Cook	Phillips
	IA	IL	MO	NE	IA	KS	MO	NE	NE
	2.5.7	2.5.7	1.2.5.7	2.5.7	NI	NI	NI	NI	NI
Strain									
1 LD11-2170 (SCN)	1.0	1.0	1.0			2.0	3.0	1.0	
2 U15-606207 (SCN)	1.0	2.0	1.0			2.0	2.0	1.0	
3 LD07-3395bf (SCN)	1.0	2.0	1.0			3.0	2.0	1.0	
4 U14-910097 (SCN)	1.0	1.0	1.0			2.0	2.0	1.0	
5 A17203-21	1.0	2.0	1.0			2.0	2.0	1.0	
6 A17203-79	1.5	1.0	1.0			1.0	1.0	1.0	
7 A17204-16	1.0	2.0	1.0			2.0	1.0	1.0	
8 A17206-10	1.0	1.0	1.0			1.0	2.0	1.0	
9 A17206-53	1.0	2.0	2.0			5.0	1.0	1.0	
10 A17206-56	1.0	2.0	1.0			2.0	1.0	1.0	
11 A17206-78	1.0	1.0	1.0			3.0	4.0	1.0	
12 A17206-8	2.0	1.0	1.0			4.0	2.0	1.0	
13 A17210-24	1.0	1.0	1.0			2.0	3.0	1.0	
14 A17210-35	1.0	1.0	1.0			1.0	2.0	1.0	
15 A17210-40	1.0	1.0	1.0			2.0	1.0	1.0	
16 A17210-60	1.0	2.0	1.0			2.0	1.0	1.0	
17 LD20-1718	2.0	2.0	1.0			1.0	1.0	1.0	
18 LD20-1797	2.0	1.0	1.0			3.0	3.0	1.0	
19 LD20-5010	1.0	1.0	1.0			1.0	1.0	1.0	
20 LD20-5015	1.0	2.0	1.0			2.0	1.0	1.0	
21 LD20-5413	1.0	1.0	1.0			3.0	1.0	1.0	
22 LD20-5724	1.0	1.0	1.0			2.0	1.0	1.0	
23 LD20-11626	1.0	1.0	1.0			3.0	1.0	1.0	
24 S20-2017	1.0	1.0	1.0			0.0	2.0	1.0	
25 SA19-10545	1.0	1.0	1.0			2.0	2.0	1.0	
26 SA19-10687	1.5	2.0	1.0			3.0	2.0	1.0	
27 SA19-12549	1.0	1.0	1.0			2.0	1.0	1.0	
28 SA20-2256	1.0	1.0	1.0			2.0	2.0	1.0	
29 SA20-9732	1.0	1.0	-			1.0	-	1.0	
30 SA20-9978	1.0	2.0	-			2.0	-	1.0	
31 U19-052043	1.0	2.0	2.0			2.0	2.0	1.0	
32 U19-053111	1.0	2.0	2.0			2.0	2.0	1.0	
33 U19-053145	2.0	2.0	1.0			3.0	2.0	1.0	
34 U19-057139	2.0	2.0	1.0			2.0	1.0	1.0	
35 U19-061113	2.0	1.0	1.0			1.0	1.0	1.0	
36 U19-075083	2.0	2.0	1.0			3.0	1.0	1.0	
37 U19-075094	2.0	2.0	1.0			2.0	2.0	1.0	
38 U19-218017	2.0	2.0	1.0			4.0	3.0	1.0	
39 U19-221005	2.0	2.0	2.0			2.0	2.0	1.0	
40 U20-934093	2.0	1.0	1.0			2.0	2.0	1.0	

2023 SCN PRELIMINARY III

Protein (%)

SCN HG Type	Ames		Novelty	Crawfords-		Rock		Cook	Phillips
	IA	IL	MO	Lincoln	ville	Manhattan	Port	NE	NE
	2.5.7	2.5.7	1.2.5.7	NE	IA	KS	MO	NI	NI
Strain									
1 LD11-2170 (SCN)		36.0				35.9	33.0	34.9	33.8
2 U15-606207 (SCN)		33.5				33.3	33.6	33.2	32.5
3 LD07-3395bf (SCN)		33.3				34.3	33.4	32.8	32.2
4 U14-910097 (SCN)		34.4				34.9	34.7	34.6	33.0
5 A17203-21		34.6				34.5	33.4	32.9	32.8
6 A17203-79		34.0				32.9	33.3	33.2	33.4
7 A17204-16		34.4				33.1	32.4	32.8	32.0
8 A17206-10		31.9				31.8	32.7	31.6	32.8
9 A17206-53		33.5				34.6	33.7	32.9	32.0
10 A17206-56		34.0				33.8	33.0	33.6	31.6
11 A17206-78		34.4				34.0	34.6	32.7	33.1
12 A17206-8		32.1				35.1	32.5	31.8	31.2
13 A17210-24		33.3				32.8	32.8	32.1	31.4
14 A17210-35		34.4				33.1	33.3	32.4	31.8
15 A17210-40		34.5				32.9	33.5	32.3	31.9
16 A17210-60		35.8				36.5	35.1	33.6	33.8
17 LD20-1718		34.9				33.9	33.6	34.2	33.8
18 LD20-1797		35.5				35.5	34.5	34.6	33.9
19 LD20-5010		34.0				35.9	32.3	32.2	32.1
20 LD20-5015		34.4				34.6	33.0	32.9	32.8
21 LD20-5413		34.5				35.6	33.4	34.1	33.5
22 LD20-5724		35.6				36.8	33.6	33.4	33.7
23 LD20-11626		35.6				35.1	33.3	34.6	34.4
24 S20-2017		37.0				36.7	35.3	35.0	33.7
25 SA19-10545		34.2				36.0	33.3	33.4	33.3
26 SA19-10687		35.0				33.7	32.6	34.8	33.8
27 SA19-12549		33.6				33.4	32.8	32.5	32.0
28 SA20-2256		34.3				35.3	33.1	33.2	32.5
29 SA20-9732		34.0				35.9	34.4	32.5	32.0
30 SA20-9978		35.3				35.3	34.4	33.3	32.0
31 U19-052043		35.4				33.4	33.3	33.4	32.5
32 U19-053111		35.6				32.9	34.9	33.8	33.5
33 U19-053145		34.4				35.0	34.1	33.8	33.7
34 U19-057139		32.4				32.5	33.0	31.8	31.7
35 U19-061113		34.5				33.9	33.5	33.9	33.8
36 U19-075083		34.5				35.4	34.4	34.3	32.8
37 U19-075094		32.8				34.9	34.1	33.4	32.8
38 U19-218017		34.6				34.6	32.9	33.3	31.8
39 U19-221005		34.9				34.4	32.7	32.6	32.3
40 U20-934093		32.3				33.2	32.9	33.0	32.4

2023 SCN PRELIMINARY III

Oil (%)

SCN HG Type	Ames	Urbana	Novelty	Lincoln	Crawfords-ville	Manhattan	Rock Port	Cook	Phillips
	IA	IL	MO	NE	IA	KS	MO	NE	NE
Strain	2.5.7	2.5.7	1.2.5.7	2.5.7	NI	NI	NI	NI	NI
1 LD11-2170 (SCN)		20.1				20.0	21.1	19.8	20.6
2 U15-606207 (SCN)		19.5				20.4	20.2	20.5	20.3
3 LD07-3395bf (SCN)		19.6				18.8	20.5	20.0	20.8
4 U14-910097 (SCN)		19.9				20.5	20.1	20.3	21.1
5 A17203-21		19.4				19.0	20.1	19.7	19.9
6 A17203-79		19.7				20.6	20.9	19.5	19.9
7 A17204-16		19.3				21.3	20.3	20.6	21.2
8 A17206-10		20.9				21.3	20.6	20.9	20.8
9 A17206-53		19.0				18.6	19.7	20.2	20.8
10 A17206-56		19.9				21.1	20.2	20.3	21.5
11 A17206-78		20.3				21.0	20.7	21.3	21.2
12 A17206-8		20.2				17.8	19.3	20.3	21.0
13 A17210-24		19.8				21.2	21.2	20.7	21.0
14 A17210-35		20.6				20.8	20.6	20.8	21.8
15 A17210-40		20.2				20.0	19.9	21.1	21.2
16 A17210-60		20.3				20.4	20.2	20.8	20.5
17 LD20-1718		20.2				21.8	20.3	20.0	20.3
18 LD20-1797		19.9				18.3	20.6	19.9	21.0
19 LD20-5010		19.9				19.3	20.8	21.2	20.8
20 LD20-5015		19.9				20.2	20.5	20.3	20.5
21 LD20-5413		20.3				18.9	20.3	20.2	21.0
22 LD20-5724		19.1				18.1	19.8	19.9	20.2
23 LD20-11626		20.2				19.9	19.9	19.7	20.5
24 S20-2017		17.2				19.0	18.4	18.5	18.4
25 SA19-10545		19.7				18.1	20.4	19.6	19.4
26 SA19-10687		19.0				20.1	20.8	19.1	20.7
27 SA19-12549		18.9				20.3	19.6	19.4	20.4
28 SA20-2256		18.7				19.0	19.5	19.9	20.1
29 SA20-9732		19.8				19.5	19.0	20.7	20.4
30 SA20-9978		19.3				19.5	19.1	20.1	20.7
31 U19-052043		18.8				20.6	20.2	20.1	20.9
32 U19-053111		19.0				20.8	19.9	19.5	20.1
33 U19-053145		20.1				19.5	20.6	20.1	20.2
34 U19-057139		21.0				20.7	20.8	20.4	21.1
35 U19-061113		20.1				20.5	19.9	19.8	20.2
36 U19-075083		20.7				20.3	20.7	20.3	20.6
37 U19-075094		21.6				20.5	20.6	20.9	20.9
38 U19-218017		19.7				20.0	20.5	20.2	21.2
39 U19-221005		19.9				20.8	20.6	20.6	20.9
40 U20-934093		20.7				21.2	20.8	20.8	21.5