

2023 SCN PRELIMINARY II

Strain	FPhlm	Parentage	Previous testing	Gen. Comp.	Cooperator reported Traits	Cooperator reported SCN Resistance source
1 IA2102	WGY	A04-545045 x AgriPro 98180-A01-06131		F4		None
2 LD02-4485 (SCN)	PGbf	M90-184111 x IA3010		F5		PI 88788
3 U11-917032 (SCN)	PTbl	LD02-4485 x U03-100612		F6		PI 88788
4 U14-910097 (SCN)	PGbf	U09-105007 x LD07-3419		F5		PI 88788,437654
5 A17203-84	MLtbl	DSN11-12073/LD12-459 x U14-924158		F5		
6 A17206-29	PLtbr	DSN11-12119/AR15-258048 x U14-924158		F5		
7 A17210- 2	PLtbl	AR15-258048/SA13-1310 x U14-924158		F5		
8 A17210-12	PLtbl	AR15-258048/SA13-1310 x U14-924158		F5		
9 E21058	PTbr	E15917 x E14077		F5		PI 88788
10 E21088	PGibf	E16901T x E12076T-04		F5		PI 88788
11 E21102	PTbl	E17550 x E14077		F5		PI 88788
12 E21062T	MLty	E16901T x E14077		F5	high protein	PI 88788
13 E21107	PGbf	LD02-4485 x E14077		F5		PI 88788
14 E21109	PG+Ltbl/bl	LD02-4485 x E14077		F5		PI 88788
15 E21116	PMbl/ibl	E17550 x E14077		F5		PI 88788
16 E21118	PMbl/ibl	LD10-10198 x E14077		F5		PI 88788
17 E21125	PLtbr	M07-209037 x PI 567425B		F5		PI 88788
18 E21127	PLtbr	M07-209037 x PI 567425B		F5		PI 88788
19 E21327	PMbr/bf	LD02-4485 x Dennison F2:3 14-19		F5		PI 88788
20 E21345	PLtbr	LD10-10198 x E18902		F5		PI 88788
21 LD19-5111	WGY	E13100 x LD10-10198		F5		Rhq1 88788
22 LD20-4408	WGbif	M07-209037 x U14-910097		F5		Rhq 4, Rhq1 (437654)
23 LD20-4471	PLtbl	U14-925152 x U11-917032		F5		Rhq 4, Rhq1 (437654)
24 LD20-4533	PLtbl	U14-925152 x E14077		F5		Rhq 4, Rhq1 (437654)
25 LD20-4542	PTbl	LD14-6363 x E14077		F5		scn soja, Rhq1 88788
26 LD20-4790	PGy	M07-209037 x LD14-6190		F5		scn soja, Rhq1 88788
27 LD20-5738	PLtbl	LD13-1429 x LD14-6363		F5		scn soja, Rhq1 88788
28 U19-053024	PGibf	LD12-459 x U14-910097		F5	Rps	PI 88788, PI 437654
29 U19-054037	PLtbr	LD12-459 x U14-910097		F5	Rps	PI 88788, PI 437654
30 U19-070096	PLtbl	SA13-1385 x ORC 3713N		F5	Rps	PI 88788
31 U19-074079	PGibf	LD12-459 x U14-910097		F5	Rps	PI 88788, PI 437654
32 U19-075095	PMbl/ibl	U14-925152 x SA13-1310		F5	IDC, Rps	PI 88788, PI 437654
33 U19-076104	PLtbl	U14-925152 x SA13-1310		F5	IDC, Rps	PI 88788, PI 437654
34 U19-077084	PT+Ltbl/br	U14-903100 x LD12-3903		F5	Rps	PI 88788
35 U19-217019	PGbf	U14-910097 x U14-909100		F5	Rps	PI 88788, PI 437654
36 U19-220012	PGbf	U14-910097 x U14-909100		F5	Rps	PI 88788, PI 437654
37 U19-238013	PGibf	U14-925152 x U14-909100		F5	IDC, Rps	PI 88788, PI 437654
38 U19-238031	PGbf	U14-925152 x U14-909100		F5	IDC, Rps	PI 88788, PI 437654
39 U19-244036	PGibf	U14-925152 x U14-909100		F5	IDC, Rps	PI 88788, PI 437654
40 U20-903154	PGibf	U14-910097 x U14-211226		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 IA2102							R	S	S	S	
2 LD02-4485 (SCN)							R	S	S	S	
3 U11-917032 (SCN)							Het	S	S	S	
4 U14-910097 (SCN)							S	R	R	S	
5 A17203-84	Preliminary Test Entries not screened							Het	S	S	S
6 A17206-29							R	S	S	S	
7 A17210- 2							S	R	R	S	
8 A17210-12							S	Het	Het	S	
9 E21058							R	S	R	S	
10 E21088							R	S	Het	S	
11 E21102							R	S	Het	S	
12 E21062T							R	S	S	S	
13 E21107							-	S	R	S	
14 E21109							R	S	S	S	
15 E21116							R	S	Het	S	
16 E21118							R	S	-	S	
17 E21125							-	S	-	S	
18 E21127							S	S	S	S	
19 E21327							-	S	S	S	
20 E21345							S	S	S	S	
21 LD19-5111							R	S	S	S	
22 LD20-4408							S	R	R	S	
23 LD20-4471							S	R	R	S	
24 LD20-4533							S	R	R	S	
25 LD20-4542							-	S	-	S	
26 LD20-4790							R	S	S	S	
27 LD20-5738							R	S	S	S	
28 U19-053024							S	R	R	S	
29 U19-054037							R	S	R	S	
30 U19-070096							Het	S	S	S	
31 U19-074079							R	S	Het	S	
32 U19-075095							S	R	-	S	
33 U19-076104							-	-	S	S	
34 U19-077084							S	S	S	S	
35 U19-217019							Het	Het	R	S	
36 U19-220012							R	S	R	S	
37 U19-238013							R	S	S	S	
38 U19-238031							Het	Het	R	S	
39 U19-244036							-	S	-	S	
40 U20-903154							R	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 IA2102	R	S	R	S	S	S	S	S	S	S	R	S	R
2 LD02-4485 (SCN)	S	S	R	S	S	S	S	S	S	S	S	S	R
3 U11-917032 (SCN)	Het	S	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 A17203-84	S	R	R	S	S	S	S	S	S	S	S	S	Het
6 A17206-29	Het	Het	R	S	S	S	S	S	S	S	Het	S	R
7 A17210- 2	S	R	R	S	S	S	S	S	S	S	S	S	R
8 A17210-12	Het	R	Het	S	S	S	S	S	S	S	Het	S	R
9 E21058	R	S	Het	S	S	S	R	S	S	S	S	S	R
10 E21088	S	Het	R	S	S	S	Het	S	S	S	-	S	R
11 E21102	R	S	R	S	S	S	R	S	S	S	S	S	R
12 E21062T	S	Het	R	S	S	S	-	S	S	S	R	S	R
13 E21107	-	S	R	S	S	S	-	S	S	S	S	S	R
14 E21109	R	S	R	S	S	S	-	S	S	S	S	S	R
15 E21116	Het	S	Het	S	-	S	Het	S	S	S	Het	S	R
16 E21118	Het	Het	R	Het	S	S	Het	S	S	S	S	S	R
17 E21125	R	-	R	-	S	S	-	S	S	S	-	S	R
18 E21127	R	R	R	R	S	S	S	S	S	S	R	S	R
19 E21327	S	S	R	S	S	S	S	S	S	S	S	S	R
20 E21345	R	R	R	R	S	S	S	S	S	S	R	S	R
21 LD19-5111	R	R	R	S	S	S	S	S	S	S	R	S	R
22 LD20-4408	S	S	R	S	S	S	S	S	S	S	S	S	R
23 LD20-4471	S	S	R	S	S	S	S	S	S	S	S	S	R
24 LD20-4533	S	R	R	S	S	S	S	S	S	S	R	S	R
25 LD20-4542	-	Het	R	S	S	S	Het	S	S	S	-	S	R
26 LD20-4790	S	S	R	S	S	S	S	S	S	S	R	S	R
27 LD20-5738	S	R	R	S	S	S	S	S	S	S	S	S	R
28 U19-053024	S	R	R	S	S	S	S	S	S	S	S	S	R
29 U19-054037	S	S	S	S	S	S	S	S	S	S	S	S	R
30 U19-070096	Het	S	R	S	S	S	Het	S	S	S	S	S	R
31 U19-074079	S	S	R	S	S	S	S	S	S	S	R	S	R
32 U19-075095	S	R	R	S	S	S	S	S	S	S	Het	S	R
33 U19-076104	S	S	R	S	S	S	S	S	S	S	R	S	R
34 U19-077084	R	S	R	S	-	S	-	S	S	-	S	S	R
35 U19-217019	R	S	R	S	S	S	S	S	S	S	S	S	R
36 U19-220012	R	S	R	S	S	S	S	S	S	S	S	S	R
37 U19-238013	S	S	R	S	S	S	S	S	S	S	Het	S	R
38 U19-238031	R	S	R	S	S	S	S	S	S	S	R	S	R
39 U19-244036	S	Het	R	S	S	S	S	S	S	S	-	S	R
40 U20-903154	Het	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 IA2102	Rhg1_PI88788	LgA+Ch13	
2 LD02-4485 (SCN)	Rhg1_PI88788	Ch13	
3 U11-917032 (SCN)			
4 U14-910097 (SCN)	Rhg1_Peking, Rhg4_Peking	H-LgA+Ch13	
5 A17203-84	Het-Rhg1_PI88788	LgN+Ch13	
6 A17206-29	Rhg1_PI88788	H-LgA+H-LgN+Ch13	
7 A17210- 2	Rhg1_Peking, Rhg4_Peking	LgN+Ch13	
8 A17210-12	Het-Rhg1_Peking, Het-Rhg4_Peking	H-LgA+LgN+H-Ch13	
9 E21058	Rhg1_PI88788, Rhg4_Peking	LgA+H-Ch13	Rps1k
10 E21088	Rhg1_PI88788, Het-Rhg4_Peking	H-LgN+Ch13	H-Rps1k
11 E21102	Rhg1_PI88788, Het-Rhg4_Peking	LgA+Ch13	Rps1k
12 E21062T	Rhg1_PI88788	H-LgN+Ch13	
13 E21107	?Rhg1_PI88788, Rhg4_Peking	Ch13	
14 E21109	Rhg1_PI88788	LgA+Ch13	
15 E21116	Rhg1_PI88788, Het-Rhg4_Peking	H-LgA+H-Ch13	H-Rps1k
16 E21118	Rhg1_PI88788	H-LgA+H-LgN+Ch13	H-Rps1a+H-Rps1k
17 E21125	?	Ch13	
18 E21127	None	LgA+LgN+Ch13	Rps1a
19 E21327	?	Ch13	
20 E21345	None	LgA+LgN+Ch13	Rps1a
21 LD19-5111	Rhg1_PI88788	LgA+LgN+Ch13	
22 LD20-4408	Rhg1_Peking, Rhg4_Peking	Ch13	
23 LD20-4471	Rhg1_Peking, Rhg4_Peking	Ch13	
24 LD20-4533	Rhg1_Peking, Rhg4_Peking	LgN+Ch13	
25 LD20-4542	?	H-LgN+Ch13	H-Rps1k
26 LD20-4790	Rhg1_PI88788	Ch13	
27 LD20-5738	Rhg1_PI88788	LgN+Ch13	
28 U19-053024	Rhg1_Peking, Rhg4_Peking	LgN+Ch13	
29 U19-054037	Rhg1_PI88788, Rhg4_Peking		
30 U19-070096	Het-Rhg1_PI88788	H-LgA+Ch13	H-Rps1k
31 U19-074079	Rhg1_PI88788, Het-Rhg4_Peking	Ch13	
32 U19-075095	Rhg1_Peking	LgN+Ch13	
33 U19-076104	?	Ch13	
34 U19-077084	None	LgA+Ch13	
35 U19-217019	Het-Rhg1_PI88788&Peking, R-Rhg4_Peking	LgA+Ch13	
36 U19-220012	Rhg1_PI88788, Rhg4_Peking	LgA+Ch13	
37 U19-238013	Rhg1_PI88788	Ch13	
38 U19-238031	Het-Rhg1_PI88788&Peking, R-Rhg4_Peking	LgA+Ch13	
39 U19-244036	?	H-LgN+Ch13	
40 U20-903154	Rhg1_PI88788, Rhg4_Peking	H-LgA+Ch13	

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### 2023 Summary

Entry	Yield							Seed					
	All		Infested		Non-infested		Maturity date	Lodging score	Height in.	weight g/100	quality score	protein @13%	oil @13%
	bu/a	rank	bu/a	rank	bu/a	rank							
Locations	7		4		3		4	4	3	4	3	3	
1 IA2102	67.1	28	61.6	36	74.5	9	9/19	2.6	38	17.0	1.5	34.3	19.3
2 LD02-4485 (SCN)	67.6	27	66.2	31	69.5	27	-0.5	1.9	36	15.4	1.3	32.5	20.3
3 U11-917032 (SCN)	62.4	39	60.9	38	64.3	37	-5.5	2.0	34	17.1	1.3	33.7	20.7
4 U14-910097 (SCN)	76.3	1	75.1	2	77.9	2	4.8	1.8	37	15.6	1.3	33.1	20.7
5 A17203-84	69.7	22	67.2	30	73.0	15	-0.1	1.1	33	16.9	1.0	32.7	20.7
6 A17206-29	65.4	33	67.8	26	62.3	40	-2.7	1.3	35	15.4	1.3	32.1	20.7
7 A17210- 2	71.2	18	72.5	10	69.5	28	-1.2	1.0	33	16.3	1.5	32.5	20.6
8 A17210-12	70.5	20	69.5	20	71.7	20	1.5	1.4	39	16.9	1.3	33.9	20.0
9 E21058	65.6	32	62.5	32	69.8	26	-0.5	1.3	37	15.1	1.0	33.1	19.9
10 E21088	64.0	36	62.3	34	66.3	33	2.0	1.5	38	16.7	1.0	35.1	18.7
11 E21102	63.3	37	62.0	35	65.2	35	-1.4	1.4	38	17.2	1.0	32.7	20.7
12 E21062T	62.7	38	59.7	39	66.7	31	-3.7	1.1	34	17.1	1.0	35.1	19.6
13 E21107	71.9	15	72.0	13	71.7	20	1.9	1.6	38	15.4	1.3	34.0	19.6
14 E21109	72.7	12	72.5	10	72.9	16	0.9	1.3	39	16.9	1.0	33.9	19.2
15 E21116	64.2	35	62.3	33	66.6	32	1.7	1.5	40	17.9	1.7	34.6	19.9
16 E21118	73.4	8	73.2	6	73.8	13	3.7	1.1	40	14.3	1.0	33.9	18.9
17 E21125	73.2	11	70.3	18	76.9	5	0.0	1.4	37	16.0	1.3	34.0	18.8
18 E21127	75.1	3	72.9	8	77.9	2	0.1	1.8	38	16.4	1.3	34.1	18.8
19 E21327	65.3	34	61.5	37	70.4	24	1.9	2.0	41	16.2	1.3	32.8	20.9
20 E21345	73.4	8	71.9	14	75.2	8	-0.5	1.8	40	16.5	1.3	34.6	18.5
21 LD19-5111	69.2	24	67.8	26	71.1	22	-2.0	1.4	36	15.7	1.0	34.4	18.9
22 LD20-4408	66.2	30	67.9	25	63.9	39	-2.9	1.4	31	16.7	1.3	33.1	20.8
23 LD20-4471	72.4	14	71.3	16	73.9	12	4.3	1.5	36	16.5	1.3	32.6	21.1
24 LD20-4533	69.6	23	71.5	15	67.2	30	4.2	2.4	41	17.2	1.0	34.4	20.8
25 LD20-4542	66.3	29	67.3	29	65.1	36	-4.1	1.0	32	17.1	1.3	34.6	20.5
26 LD20-4790	66.0	31	67.4	28	64.2	38	-2.2	1.5	41	18.1	1.0	34.2	20.0
27 LD20-5738	73.5	7	75.8	1	70.6	23	3.8	1.5	37	15.9	1.3	32.8	19.3
28 U19-053024	72.7	12	73.1	7	72.2	19	2.4	1.4	35	15.6	1.3	34.0	20.3
29 U19-054037	76.2	2	75.1	2	77.7	4	4.9	1.4	40	15.0	1.0	33.4	20.5
30 U19-070096	69.1	25	68.4	23	70.0	25	4.0	1.4	40	14.9	1.0	34.5	19.8
31 U19-074079	74.9	4	72.0	12	78.7	1	4.2	1.3	35	15.4	1.3	33.1	20.3
32 U19-075095	71.2	18	69.5	20	73.4	14	5.4	1.8	38	15.4	1.0	33.7	20.7
33 U19-076104	68.1	26	68.6	22	67.4	29	6.3	1.4	39	15.3	1.0	33.9	20.6
34 U19-077084	61.8	40	59.1	40	65.4	34	4.3	1.0	37	16.2	1.0	32.5	20.1
35 U19-217019	73.3	10	72.8	9	74.0	11	5.8	1.4	41	15.3	1.3	32.5	20.1
36 U19-220012	74.5	5	73.3	5	76.0	6	2.9	1.1	37	16.0	1.3	32.9	20.5
37 U19-238013	71.8	16	69.8	19	74.5	9	3.0	1.1	39	15.5	1.3	32.7	20.4
38 U19-238031	74.5	5	73.4	4	76.0	6	6.3	1.4	41	17.5	1.3	32.5	21.4
39 U19-244036	70.0	21	68.2	24	72.5	18	4.2	1.3	39	14.5	1.0	32.3	19.8
40 U20-903154	71.8	17	71.1	17	72.7	17	6.2	2.0	44	14.8	1.0	32.2	20.7
Mean	69.7		68.7		71.1		1.6	1.5	37.6	16.1	1.2	33.5	20.1
C.V. %	8.9		8.9		9.0		7.4	26.8	5.2				
LSD(.05)	4.6		6.0		7.3		1.5	0.4	2.3				
Replications	14		8		6		8	8	6				

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Yield (bu/a)

SCN HG Type	Crawfords-						
	Ames	Urbana	Decatur	Mead	ville	Cotesfield	Phillips
	IA	IL	MI	NE	IA	NE	NE
	2.5.7	2.5.7	Inf	7	NI	NI	NI
Strain							
1 IA2102	67.6	61.9	69.3	57.1	76.1	59.3	88.0
2 LD02-4485 (SCN)	72.2	66.6	56.3	69.8	81.8	55.8	70.8
3 U11-917032 (SCN)	62.6	57.2	52.3	71.7	66.8	50.8	75.4
4 U14-910097 (SCN)	75.0	75.0	71.7	78.6	86.3	60.7	86.6
5 A17203-84	75.5	68.4	55.0	77.4	85.9	57.7	75.2
6 A17206-29	78.0	63.6	61.7	67.8	83.9	45.9	57.0
7 A17210- 2	81.6	62.1	67.1	79.1	74.9	53.0	80.5
8 A17210-12	75.1	67.4	71.8	63.9	80.5	47.1	87.5
9 E21058	65.8	62.2	54.7	67.4	83.0	48.0	78.3
10 E21088	64.6	60.6	67.6	56.3	80.3	40.6	77.8
11 E21102	66.0	49.5	-	67.7	74.5	44.1	76.8
12 E21062T	50.1	56.7	71.7	68.0	85.0	45.1	69.9
13 E21107	73.4	65.3	72.5	76.8	82.8	53.7	78.4
14 E21109	78.8	67.0	69.0	75.4	88.1	52.8	77.7
15 E21116	59.1	57.1	61.6	71.4	73.8	43.5	82.5
16 E21118	72.5	72.6	64.9	82.7	89.8	52.1	79.6
17 E21125	69.3	69.0	69.6	73.4	82.8	54.3	93.7
18 E21127	81.5	67.6	72.8	69.9	80.5	56.1	97.0
19 E21327	64.8	62.7	61.6	66.4	82.9	53.7	74.6
20 E21345	78.3	69.3	59.2	81.0	89.0	53.9	82.7
21 LD19-5111	68.5	65.1	62.5	75.0	81.9	47.5	83.8
22 LD20-4408	74.8	59.9	57.3	79.5	78.3	47.7	65.8
23 LD20-4471	63.6	72.5	63.7	85.3	93.7	52.4	75.6
24 LD20-4533	65.0	69.2	74.9	76.8	91.4	44.9	65.2
25 LD20-4542	76.5	61.0	56.0	75.5	70.1	44.5	80.6
26 LD20-4790	69.8	65.0	65.5	69.0	75.4	43.3	73.8
27 LD20-5738	86.6	67.2	74.2	75.2	80.6	49.3	81.9
28 U19-053024	75.7	66.0	66.6	83.9	82.9	53.9	79.8
29 U19-054037	74.4	73.5	66.2	86.4	89.4	61.8	81.9
30 U19-070096	69.0	67.2	63.8	73.8	76.6	56.4	77.0
31 U19-074079	75.0	70.2	62.7	80.2	92.0	63.0	81.1
32 U19-075095	69.9	65.3	66.2	76.6	84.6	50.1	85.5
33 U19-076104	73.1	69.1	57.9	74.5	84.1	48.7	69.3
34 U19-077084	59.3	56.5	50.5	70.1	75.6	53.6	78.0
35 U19-217019	75.9	73.6	64.3	77.6	87.7	56.8	77.4
36 U19-220012	71.2	73.4	70.9	77.9	89.6	49.7	88.7
37 U19-238013	72.6	66.9	61.5	78.3	94.5	48.0	81.0
38 U19-238031	71.5	71.3	74.1	76.6	91.1	54.7	82.3
39 U19-244036	70.7	61.0	58.2	83.0	85.4	51.2	80.9
40 U20-903154	62.4	75.7	71.6	74.6	85.2	62.3	70.7
Mean	71.3	65.8	64.6	74.3	83.1	51.7	78.8
C.V. %	9.2	5.7	9.6	9.2	7.4	7.3	10.5
LSD(2-sided,.05)	13.3	7.5	12.5	16.9	12.5	9.2	20.4
Replications	2	2	2	2	2	2	2
Row spacing (in.)	30	30	30	30	30	30	30

## 2023 SCN PRELIMINARY II

Yield (rank)

SCN HG Type	Crawfords-						
	Ames	Urbana	Decatur	Mead	ville	Cotesfield	Phillips
	IA	IL	MI	NE	IA	NE	NE
Strain	2.5.7	2.5.7	Inf	7	NI	NI	NI
1 IA2102	29	31	12	39	33	5	4
2 LD02-4485 (SCN)	20	21	34	31	26	10	34
3 U11-917032 (SCN)	36	36	38	27	40	23	30
4 U14-910097 (SCN)	12	2	8	10	12	4	6
5 A17203-84	10	14	36	14	13	6	31
6 A17206-29	6	27	26	34	19	33	40
7 A17210- 2	2	30	15	9	36	18	18
8 A17210-12	11	16	6	38	29	32	5
9 E21058	31	29	37	36	20	28	22
10 E21088	34	34	14	40	30	40	24
11 E21102	30	40	-	35	37	37	28
12 E21062T	40	38	7	33	16	34	36
13 E21107	16	24	5	16	24	15	21
14 E21109	4	19	13	20	10	19	25
15 E21116	39	37	27	28	38	38	10
16 E21118	19	6	20	5	6	21	20
17 E21125	26	13	11	26	23	12	2
18 E21127	3	15	4	30	28	9	1
19 E21327	33	28	28	37	22	16	32
20 E21345	5	10	30	6	9	13	9
21 LD19-5111	28	25	25	22	25	31	8
22 LD20-4408	14	35	33	8	31	30	38
23 LD20-4471	35	7	23	2	2	20	29
24 LD20-4533	32	11	1	15	4	35	39
25 LD20-4542	7	32	35	19	39	36	17
26 LD20-4790	25	26	19	32	35	39	33
27 LD20-5738	1	17	2	21	27	26	13
28 U19-053024	9	22	16	3	21	14	19
29 U19-054037	15	4	18	1	8	3	12
30 U19-070096	27	17	22	25	32	8	27
31 U19-074079	12	9	24	7	3	1	14
32 U19-075095	24	23	17	17	17	24	7
33 U19-076104	17	12	32	24	18	27	37
34 U19-077084	38	39	39	29	34	17	23
35 U19-217019	8	3	21	13	11	7	26
36 U19-220012	22	5	10	12	7	25	3
37 U19-238013	18	20	29	11	1	29	15
38 U19-238031	21	8	3	18	5	11	11
39 U19-244036	23	32	31	4	14	22	16
40 U20-903154	37	1	9	23	15	2	35

2023 SCN PRELIMINARY II

Maturity

SCN HG Type	Crawfords-						
	Ames	Urbana	Decatur	Mead	ville	Cotesfield	Phillips
	IA	IL	MI	NE	IA	NE	NE
Strain	2.5.7	2.5.7	Inf	7	NI	NI	NI
1 IA2102	9/21	9/14		9/19			9/24
2 LD02-4485 (SCN)	0	3		-2			-4
3 U11-917032 (SCN)	-5	-5		-7			-6
4 U14-910097 (SCN)	7	6		3			4
5 A17203-84	0	2		-1			-2
6 A17206-29	1	-3		-6			-3
7 A17210- 2	-3	2		-5			1
8 A17210-12	3	5		-2			1
9 E21058	1	2		-4			-1
10 E21088	5	5		-2			1
11 E21102	-1	2		-5			-2
12 E21062T	-1	0		-5			-3
13 E21107	2	3		2			1
14 E21109	2	5		-4			0
15 E21116	4	2		2			-1
16 E21118	5	6		2			2
17 E21125	2	2		-5			1
18 E21127	3	1		-3			-1
19 E21327	4	3		1			0
20 E21345	2	1		-2			-3
21 LD19-5111	2	1		-7			-4
22 LD20-4408	-2	-1		-4			-5
23 LD20-4471	3	7		4			4
24 LD20-4533	7	5		4			1
25 LD20-4542	-5	-2		-7			-3
26 LD20-4790	-1	0		-5			-3
27 LD20-5738	5	6		2			3
28 U19-053024	3	5		1			2
29 U19-054037	5	8		5			3
30 U19-070096	2	6		5			3
31 U19-074079	5	6		4			2
32 U19-075095	6	6		5			5
33 U19-076104	8	8		6			4
34 U19-077084	5	8		3			2
35 U19-217019	7	8		5			4
36 U19-220012	2	5		2			3
37 U19-238013	2	4		4			3
38 U19-238031	8	7		6			4
39 U19-244036	4	6		4			3
40 U20-903154	8	7		7			3
Planted	5/24	5/15	5/09	5/16	5/04	5/17	5/23



**2023 SCN PRELIMINARY II**

**Lodging (score)**

SCN HG Type	Crawfords-						
	Ames	Urbana	Decatur	Mead	ville	Cotesfield	Phillips
	IA	IL	MI	NE	IA	NE	NE
Strain	2.5.7	2.5.7	Inf	7	NI	NI	NI
1 IA2102	4.0	3.0		2.5			1.0
2 LD02-4485 (SCN)	1.5	2.0		3.0			1.0
3 U11-917032 (SCN)	3.5	1.5		2.0			1.0
4 U14-910097 (SCN)	3.0	1.0		2.0			1.0
5 A17203-84	1.0	1.0		1.5			1.0
6 A17206-29	1.5	1.5		1.0			1.0
7 A17210- 2	1.0	1.0		1.0			1.0
8 A17210-12	2.0	1.0		1.5			1.0
9 E21058	1.0	1.0		2.0			1.0
10 E21088	2.0	1.0		2.0			1.0
11 E21102	1.5	1.0		2.0			1.0
12 E21062T	1.0	1.0		1.5			1.0
13 E21107	2.0	1.0		2.5			1.0
14 E21109	1.5	1.0		1.5			1.0
15 E21116	2.0	1.0		2.0			1.0
16 E21118	1.0	1.0		1.5			1.0
17 E21125	1.5	1.0		2.0			1.0
18 E21127	2.5	1.5		2.0			1.0
19 E21327	2.0	2.5		2.5			1.0
20 E21345	2.5	1.5		2.0			1.0
21 LD19-5111	2.0	1.0		1.5			1.0
22 LD20-4408	1.5	1.0		2.0			1.0
23 LD20-4471	2.0	1.0		2.0			1.0
24 LD20-4533	4.0	2.0		2.5			1.0
25 LD20-4542	1.0	1.0		1.0			1.0
26 LD20-4790	2.0	1.0		2.0			1.0
27 LD20-5738	2.0	1.0		2.0			1.0
28 U19-053024	1.0	1.0		2.5			1.0
29 U19-054037	1.5	1.0		2.0			1.0
30 U19-070096	1.5	1.0		2.0			1.0
31 U19-074079	1.0	1.0		2.0			1.0
32 U19-075095	2.5	1.5		2.0			1.0
33 U19-076104	1.5	1.0		2.0			1.0
34 U19-077084	1.0	1.0		1.0			1.0
35 U19-217019	1.5	1.0		2.0			1.0
36 U19-220012	1.0	1.0		1.5			1.0
37 U19-238013	1.0	1.0		1.5			1.0
38 U19-238031	1.5	1.0		2.0			1.0
39 U19-244036	1.0	1.0		2.0			1.0
40 U20-903154	3.0	2.0		2.0			1.0

**2023 SCN PRELIMINARY II**

Height (inches)

SCN HG Type	Crawfords-						
	Ames	Urbana	Decatur	Mead	ville	Cotesfield	Phillips
	IA	IL	MI	NE	IA	NE	NE
Strain	2.5.7	2.5.7	Inf	7	NI	NI	NI
1 IA2102	44	34		36			
2 LD02-4485 (SCN)	39	34		37			
3 U11-917032 (SCN)	38	28		36			
4 U14-910097 (SCN)	41	32		37			
5 A17203-84	36	28		36			
6 A17206-29	42	28		36			
7 A17210- 2	38	27		34			
8 A17210-12	45	34		39			
9 E21058	41	32		39			
10 E21088	45	33		35			
11 E21102	42	32		40			
12 E21062T	38	31		35			
13 E21107	41	34		39			
14 E21109	44	33		40			
15 E21116	45	34		40			
16 E21118	44	36		41			
17 E21125	41	34		38			
18 E21127	44	33		38			
19 E21327	47	37		40			
20 E21345	46	35		39			
21 LD19-5111	42	30		35			
22 LD20-4408	36	24		34			
23 LD20-4471	40	29		39			
24 LD20-4533	51	34		38			
25 LD20-4542	36	28		34			
26 LD20-4790	48	36		41			
27 LD20-5738	44	30		37			
28 U19-053024	38	30		37			
29 U19-054037	43	37		41			
30 U19-070096	44	36		40			
31 U19-074079	38	30		37			
32 U19-075095	42	34		40			
33 U19-076104	44	34		41			
34 U19-077084	39	32		41			
35 U19-217019	44	37		42			
36 U19-220012	40	33		40			
37 U19-238013	44	32		41			
38 U19-238031	46	35		42			
39 U19-244036	43	34		41			
40 U20-903154	51	36		45			

**2023 SCN PRELIMINARY II**

**Seed Weight (g/100)**

SCN HG Type	Crawfords-						
	Ames	Urbana	Decatur	Mead	ville	Cotesfield	Phillips
	IA	IL	MI	NE	IA	NE	NE
Strain	2.5.7	2.5.7	Inf	7	NI	NI	NI
1 IA2102	18.8	17.1		15.0			17.1
2 LD02-4485 (SCN)	16.2	16.5		13.5			15.3
3 U11-917032 (SCN)	18.7	16.5		15.7			17.6
4 U14-910097 (SCN)	16.4	16.8		14.1			15.0
5 A17203-84	17.5	18.1		15.4			16.4
6 A17206-29	16.4	16.7		13.6			14.9
7 A17210- 2	16.9	17.3		14.0			16.8
8 A17210-12	17.6	18.4		13.9			17.8
9 E21058	16.1	16.5		13.0			14.9
10 E21088	16.6	18.6		14.3			17.4
11 E21102	16.6	18.3		15.6			18.4
12 E21062T	16.7	18.6		16.1			16.9
13 E21107	15.9	17.2		13.7			14.7
14 E21109	17.7	17.3		15.3			17.4
15 E21116	17.7	19.2		15.6			18.9
16 E21118	14.5	15.4		12.5			15.0
17 E21125	16.6	17.0		13.7			16.6
18 E21127	17.2	16.9		14.7			16.9
19 E21327	16.8	17.6		14.3			15.9
20 E21345	17.4	17.2		14.5			16.7
21 LD19-5111	17.5	15.8		13.7			16.0
22 LD20-4408	17.4	18.0		15.1			16.4
23 LD20-4471	17.1	16.8		15.1			17.1
24 LD20-4533	17.1	19.8		14.9			16.8
25 LD20-4542	18.0	17.8		15.6			17.2
26 LD20-4790	19.0	19.4		15.2			18.9
27 LD20-5738	16.9	16.7		13.4			16.4
28 U19-053024	16.7	16.3		13.6			15.8
29 U19-054037	15.7	15.5		13.8			14.8
30 U19-070096	14.7	15.7		14.3			15.0
31 U19-074079	16.2	16.6		14.3			14.7
32 U19-075095	16.0	16.5		14.0			15.2
33 U19-076104	15.4	15.8		14.1			15.8
34 U19-077084	15.8	17.2		14.2			17.7
35 U19-217019	15.8	16.2		14.2			15.1
36 U19-220012	16.4	18.0		14.3			15.4
37 U19-238013	15.6	15.8		14.1			16.5
38 U19-238031	18.5	18.8		15.3			17.3
39 U19-244036	15.4	15.2		13.0			14.4
40 U20-903154	15.3	16.8		14.4			12.9

## 2023 SCN PRELIMINARY II

### Seed Quality (score)

SCN HG Type	Crawfords-						
	Ames	Urbana	Decatur	Mead	ville	Cotesfield	Phillips
	IA	IL	MI	NE	IA	NE	NE
Strain	2.5.7	2.5.7	Inf	7	NI	NI	NI
1 IA2102	1.5	2.0		1.0			
2 LD02-4485 (SCN)	1.0	2.0		1.0			
3 U11-917032 (SCN)	1.0	2.0		1.0			
4 U14-910097 (SCN)	1.0	2.0		1.0			
5 A17203-84	1.0	1.0		1.0			
6 A17206-29	1.0	2.0		1.0			
7 A17210- 2	1.5	2.0		1.0			
8 A17210-12	1.0	2.0		1.0			
9 E21058	1.0	1.0		1.0			
10 E21088	1.0	1.0		1.0			
11 E21102	1.0	1.0		1.0			
12 E21062T	1.0	1.0		1.0			
13 E21107	1.0	2.0		1.0			
14 E21109	1.0	1.0		1.0			
15 E21116	1.0	3.0		1.0			
16 E21118	1.0	1.0		1.0			
17 E21125	1.0	2.0		1.0			
18 E21127	1.0	2.0		1.0			
19 E21327	1.0	2.0		1.0			
20 E21345	1.0	2.0		1.0			
21 LD19-5111	1.0	1.0		1.0			
22 LD20-4408	1.0	2.0		1.0			
23 LD20-4471	1.0	2.0		1.0			
24 LD20-4533	1.0	1.0		1.0			
25 LD20-4542	1.0	2.0		1.0			
26 LD20-4790	1.0	1.0		1.0			
27 LD20-5738	1.0	2.0		1.0			
28 U19-053024	1.0	2.0		1.0			
29 U19-054037	1.0	1.0		1.0			
30 U19-070096	1.0	1.0		1.0			
31 U19-074079	1.0	2.0		1.0			
32 U19-075095	1.0	1.0		1.0			
33 U19-076104	1.0	1.0		1.0			
34 U19-077084	1.0	1.0		1.0			
35 U19-217019	1.0	2.0		1.0			
36 U19-220012	1.0	2.0		1.0			
37 U19-238013	1.0	2.0		1.0			
38 U19-238031	1.0	2.0		1.0			
39 U19-244036	1.0	1.0		1.0			
40 U20-903154	1.0	1.0		1.0			

## 2023 SCN PRELIMINARY II

Protein (%)

SCN HG Type	Crawfords-						
	Ames	Urbana	Decatur	Mead	ville	Cotesfield	Phillips
	IA	IL	MI	NE	IA	NE	NE
Strain	2.5.7	2.5.7	Inf	7	NI	NI	NI
1 IA2102		34.3		34.8			33.8
2 LD02-4485 (SCN)		33.5		31.9			32.1
3 U11-917032 (SCN)		33.2		34.0			33.9
4 U14-910097 (SCN)		33.8		32.2			33.3
5 A17203-84		33.8		32.0			32.2
6 A17206-29		33.4		31.7			31.1
7 A17210- 2		33.1		32.4			32.2
8 A17210-12		35.0		33.1			33.7
9 E21058		33.8		32.9			32.8
10 E21088		35.8		35.1			34.4
11 E21102		32.8		32.8			32.5
12 E21062T		35.7		35.2			34.3
13 E21107		35.2		33.5			33.4
14 E21109		35.0		33.5			33.1
15 E21116		35.8		34.0			34.0
16 E21118		35.4		32.8			33.6
17 E21125		34.3		33.0			34.8
18 E21127		35.1		33.5			33.6
19 E21327		33.7		32.5			32.1
20 E21345		35.7		34.0			34.0
21 LD19-5111		35.5		33.8			33.9
22 LD20-4408		33.8		33.3			32.4
23 LD20-4471		32.7		32.6			32.4
24 LD20-4533		35.6		34.3			33.3
25 LD20-4542		35.2		34.7			34.0
26 LD20-4790		35.7		32.8			34.0
27 LD20-5738		33.9		32.2			32.3
28 U19-053024		35.0		33.0			34.0
29 U19-054037		34.7		32.4			33.2
30 U19-070096		35.3		33.9			34.2
31 U19-074079		34.0		32.7			32.7
32 U19-075095		34.6		32.5			33.9
33 U19-076104		34.8		32.5			34.4
34 U19-077084		33.1		32.2			32.3
35 U19-217019		34.1		31.2			32.3
36 U19-220012		34.1		32.1			32.6
37 U19-238013		33.7		31.5			33.0
38 U19-238031		33.0		32.0			32.3
39 U19-244036		33.3		31.0			32.6
40 U20-903154		33.9		31.5			31.3

**2023 SCN PRELIMINARY II**

Oil (%)

SCN HG Type	Crawfords-						
	Ames	Urbana	Decatur	Mead	ville	Cotesfield	Phillips
	IA	IL	MI	NE	IA	NE	NE
	2.5.7	2.5.7	Inf	7	NI	NI	NI
Strain							
1 IA2102		19.9		18.8			19.3
2 LD02-4485 (SCN)		19.8		20.8			20.3
3 U11-917032 (SCN)		21.5		20.6			19.9
4 U14-910097 (SCN)		20.4		21.1			20.7
5 A17203-84		20.4		20.8			21.1
6 A17206-29		20.6		20.6			20.9
7 A17210- 2		20.5		20.5			20.9
8 A17210-12		19.7		20.5			19.9
9 E21058		19.8		19.8			20.1
10 E21088		18.6		18.3			19.1
11 E21102		20.9		20.6			20.7
12 E21062T		19.5		19.4			19.9
13 E21107		19.3		20.0			19.7
14 E21109		18.5		19.4			19.7
15 E21116		19.4		20.0			20.4
16 E21118		18.4		19.2			19.1
17 E21125		18.7		19.2			18.6
18 E21127		18.6		19.0			18.8
19 E21327		20.5		21.0			21.2
20 E21345		18.1		18.5			19.1
21 LD19-5111		18.6		19.2			18.9
22 LD20-4408		20.8		20.9			20.8
23 LD20-4471		21.1		21.3			21.0
24 LD20-4533		20.2		21.0			21.3
25 LD20-4542		20.3		20.4			20.7
26 LD20-4790		19.7		20.7			19.6
27 LD20-5738		18.6		19.7			19.7
28 U19-053024		19.9		20.4			20.4
29 U19-054037		19.7		21.0			20.7
30 U19-070096		19.4		20.0			20.1
31 U19-074079		19.9		20.7			20.4
32 U19-075095		20.3		21.1			20.8
33 U19-076104		20.3		21.1			20.3
34 U19-077084		19.8		20.2			20.4
35 U19-217019		19.4		21.0			20.1
36 U19-220012		19.9		21.1			20.5
37 U19-238013		20.1		20.9			20.1
38 U19-238031		21.0		21.3			21.9
39 U19-244036		19.6		20.3			19.5
40 U20-903154		20.3		21.1			20.7