

2020 SCN PRELIMINARY II

Strain	FPhlm	Parentage	Gen.		SCN Resistance source
			Comp.	Traits	
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 E16915	PGibl	E13902 x E13367	F5	Rps1	PI 88788
6 E18012	PGibl	E07051 x E13364	F5	Rps1	PI 88788
7 E18015	P+Wy	IA2102 x E11128T	F5	Rps1	PI 88788
8 E18024T	PGy	LD01-7323 x E11128T	F5	Rps1	PI 88788
9 E18073	PGibl	E06167 x E07051 x E07051 x E06380	F5	Rps1	PI 88788
10 E18433	PGibl	E13364 x U06-814223R	F5	Rps1	PI 88788
11 E18580	PGibl	E07051 x E13364	F5	Rps1	PI 88788
12 E18610T	WGy	IA2102 x E11128T	F5	Rps1, protein	PI 88788
13 E18638T	P+Wy	E11128T x IA2102	F5	Rps1	PI 88788
14 LD17-2542	WGbf	U11-614119 x LD09-30224	F5		PI 88788
15 LD17-2558	PGibl	U11-614119 x LD09-30224	F5		PI 88788
16 LD17-2903	P+WtLtbl	U11-614119 x LD09-30224	F5		PI 88788
17 LD17-2967a	PLtbl	U11-614119 x LD09-30224	F5	Rag 1	PI 88788
18 LD17-3185a	PLtbl/br	LD10-5213a x LD10-10219	F5	Rag 2	PI 88788
19 LD17-6035	WT+Ltbl	U11-614119 x LD14-8003	F5		PI 88788
20 LD17-6036a	WGbf	U11-614119 x LD14-8003	F5	Rag 1+2	PI 88788
21 LD17-6351	WT+Gbl/bf	U11-932025 x LD10-5213a	F5		PI 88788
22 LD17-6422a	PGibl	U11-932025 x LD10-5213a	F5		PI 88788
23 LD18-235	PGibl/g	LD10-10198 x U11-917032	F5		PI 88788
24 LD18-249	PLtbl	LD10-10198 x U11-917032	F5		PI 88788
25 U18-613249	PGy	LD10-10198 x U11-911079	F5	Expected Rps Resistance	PI 88788
26 U18-615261	PLtbl	LD12-3903 x U11-911079	F5	Expected Rps Resistance	PI 88788
27 U18-615268	PLtbl	LD12-3903 x U11-911079	F5	Expected Rps Resistance	PI 88788
28 U18-617265	PLtbl	LD12-3903 x U11-917032	F5		PI 88788
29 U18-913021	PGibl	LD10-10198 x U11-911079	F5	Expected Rps Resistance	PI 88788
30 U18-915056	PLtbl	LD10-10198 x U11-911079	F5	Expected Rps Resistance	PI 88788
31 U18-917042	PGibl	LD10-10198 x U11-911079	F5	Expected Rps Resistance	PI 88788
32 U18-917054	PLtbl	LD10-10198 x U11-911079	F5	Expected Rps Resistance	PI 88788

2020 SCN PRELIMINARY II

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
1 IA2102	55	48	42	33	MR	152	146	159	73	NR	3.0
2 LD02-4485 (SCN)	12	16	12	9	HR	142	97	81	72	NR	2.0
3 U11-917032 (SCN)	16	12	9	11	R	101	104	118	73	NR	2.0
4 U14-910097 (SCN)	4	1	4	2	HR	3	6	2	2	HR	2.0
5 E16915	28	74	63	37	MR	69	73	66	47	LR	1.5
6 E18012	129	111	97	76	NR	120	133	137	88	NR	1.5
7 E18015	42	36	33	25	MR	106	125	92	73	NR	3.0
8 E18024T	13	10	5	6	HR	71	87	86	55	LR	2.0
9 E18073	91	77	86	57	LR	134	119	116	83	NR	2.0
10 E18433	45	88	92	50	LR	67	149	73	65	NR	5.5
11 E18580	147	126	126	89	NR	165	131	145	99	NR	2.5
12 E18610T	52	41	60	34	MR	141	86	120	78	NR	6.0
13 E18638T	48	55	43	33	MR	72	81	64	49	LR	3.5
14 LD17-2542	0	9	9	4	HR	56	67	63	42	LR	2.5
15 LD17-2558	6	6	6	4	HR	62	78	74	48	LR	1.0
16 LD17-2903	3	8	6	4	HR	82	75	91	56	LR	1.0
17 LD17-2967a	5	9	8	5	HR	57	73	74	46	LR	1.0
18 LD17-3185a	26	22	19	15	R	142	134	119	89	NR	1.0
19 LD17-6035	31	12	19	14	R	73	87	114	62	NR	1.0
20 LD17-6036a	56	57	62	39	MR	116	96	89	68	NR	1.0
21 LD17-6351	38	27	26	20	R	80	92	83	57	LR	2.0
22 LD17-6422a	16	14	22	12	R	76	64	81	50	LR	2.5
23 LD18-235	73	85	86	55	NR	194	123	203	83	NR	0.0
24 LD18-249	70	68	78	48	LR	104	86	126	71	NR	1.0
25 U18-613249	20	14	27	14	R	94	73	87	57	LR	3.0
26 U18-615261	25	19	34	17	R	71	78	64	48	LR	2.0
27 U18-615268	18	22	14	12	R	106	97	113	71	NR	2.5
28 U18-617265	6	4	8	4	HR	75	81	63	49	LR	0.0
29 U18-913021	16	13	18	11	R	117	119	99	75	NR	1.5
30 U18-915056	15	10	11	8	HR	64	83	71	49	LR	1.0
31 U18-917042	12	21	26	13	R	81	98	89	60	NR	0.0
32 U18-917054	31	8	27	15	R	109	111	96	71	NR	1.0

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

2020 SCN PRELIMINARY II

Yield (bu/a)

	Pontiac	Decatur	Lincoln	Mead
	IL	MI	NE	NE
SCN HG Type	2.5.7	Inf	2.5.7	2.5.7
Strain				
1 IA2102	53.6	32.5	43.7	66.9
2 LD02-4485 (SCN)	55.3	38.5	53.8	70.2
3 U11-917032 (SCN)	51.9	29.7	62.5	63.9
4 U14-910097 (SCN)	61.5	42.1	77.4	57.4
5 E16915	51.8	30.2	52.1	56.9
6 E18012	49.8	20.3	53.0	54.7
7 E18015	58.4	34.9	45.0	60.4
8 E18024T	50.4	31.8	51.9	64.8
9 E18073	54.0	19.5	54.1	51.8
10 E18433	56.5	27.4	47.4	59.8
11 E18580	48.4	.	48.7	56.4
12 E18610T	52.0	27.3	38.3	61.0
13 E18638T	51.3	29.4	33.2	62.6
14 LD17-2542	60.2	34.7	63.9	64.7
15 LD17-2558	59.8	35.4	51.5	65.4
16 LD17-2903	56.3	34.2	61.3	67.9
17 LD17-2967a	60.5	39.0	70.2	61.8
18 LD17-3185a	57.5	34.7	60.8	60.4
19 LD17-6035	61.2	28.7	61.6	66.6
20 LD17-6036a	58.3	35.8	64.4	65.9
21 LD17-6351	53.6	33.7	51.2	65.1
22 LD17-6422a	55.1	30.3	50.2	67.2
23 LD18-235	57.6	22.2	76.6	61.6
24 LD18-249	57.2	16.0	67.4	63.5
25 U18-613249	56.3	39.1	58.9	55.4
26 U18-615261	58.7	35.8	58.8	59.3
27 U18-615268	50.0	33.9	52.0	61.5
28 U18-617265	55.5	36.9	68.3	56.6
29 U18-913021	54.7	32.4	57.7	62.2
30 U18-915056	59.3	39.3	66.7	67.9
31 U18-917042	50.4	30.1	59.9	71.8
32 U18-917054	54.8	31.2	63.7	66.0
Average	55.3	31.8	57.1	62.4
LSD(2-sided,.05)	6.7	8.5	19.4	10.4
C.V. %	5.9	13.6	13.8	6.8
Replications	2	3	2	2
Row spacing (in.)	30	30	30	30

2020 SCN PRELIMINARY II

Yield (rank)

	Pontiac	Decatur	Lincoln	Mead
	IL	MI	NE	NE
SCN HG Type	2.5.7	Inf	2.5.7	2.5.7
Strain				
1 IA2102	22	16	30	6
2 LD02-4485 (SCN)	17	5	19	2
3 U11-917032 (SCN)	25	23	10	14
4 U14-910097 (SCN)	1	1	1	26
5 E16915	26	21	21	27
6 E18012	31	29	20	31
7 E18015	8	10	29	22
8 E18024T	28	18	23	12
9 E18073	21	30	18	32
10 E18433	13	26	28	24
11 E18580	32	32	27	29
12 E18610T	24	27	31	21
13 E18638T	27	24	32	16
14 LD17-2542	4	11	8	13
15 LD17-2558	5	9	24	10
16 LD17-2903	14	13	12	3
17 LD17-2967a	3	4	3	18
18 LD17-3185a	11	12	13	23
19 LD17-6035	2	25	11	7
20 LD17-6036a	9	7	7	9
21 LD17-6351	22	15	25	11
22 LD17-6422a	18	20	26	5
23 LD18-235	10	28	2	19
24 LD18-249	12	31	5	15
25 U18-613249	14	3	15	30
26 U18-615261	7	8	16	25
27 U18-615268	30	14	22	20
28 U18-617265	16	6	4	28
29 U18-913021	20	17	17	17
30 U18-915056	6	2	6	4
31 U18-917042	28	22	14	1
32 U18-917054	19	19	9	8

2020 SCN PRELIMINARY II

Maturity

	Pontiac	Decatur	Lincoln	Mead
	IL	MI	NE	NE
SCN HG Type	2.5.7	Inf	2.5.7	2.5.7
Strain				
1 IA2102	9/18		9/26	9/05
2 LD02-4485 (SCN)	1		1	2
3 U11-917032 (SCN)	-6		-3	-3
4 U14-910097 (SCN)	12		6	3
5 E16915	2		5	1
6 E18012	0		5	1
7 E18015	4		4	2
8 E18024T	5		2	3
9 E18073	3		4	5
10 E18433	2		7	1
11 E18580	-2		2	2
12 E18610T	1		-1	1
13 E18638T	-3		-2	0
14 LD17-2542	5		6	7
15 LD17-2558	5		9	3
16 LD17-2903	-2		-3	-1
17 LD17-2967a	4		2	5
18 LD17-3185a	5		8	2
19 LD17-6035	1		1	2
20 LD17-6036a	2		4	4
21 LD17-6351	-5		-3	-2
22 LD17-6422a	-4		-3	-1
23 LD18-235	2		0	3
24 LD18-249	0		-1	2
25 U18-613249	10		8	6
26 U18-615261	8		10	4
27 U18-615268	4		6	1
28 U18-617265	8		10	8
29 U18-913021	0		4	0
30 U18-915056	8		8	7
31 U18-917042	-5		-3	1
32 U18-917054	-2		-1	1
Planted	6/03	5/03	6/09	5/20

2020 SCN PRELIMINARY II

Lodging (score)

	Pontiac	Decatur	Lincoln	Mead
	IL	MI	NE	NE
SCN HG Type	2.5.7	Inf	2.5.7	2.5.7
Strain				
1 IA2102	2.5	1.0	3.5	3.3
2 LD02-4485 (SCN)	2.3	1.0	3.0	2.0
3 U11-917032 (SCN)	2.5	1.0	3.0	1.0
4 U14-910097 (SCN)	3.3	1.0	3.0	1.5
5 E16915	1.3	1.0	2.0	1.0
6 E18012	1.3	1.0	1.0	1.0
7 E18015	2.0	1.0	3.0	1.0
8 E18024T	2.5	1.0	2.0	1.8
9 E18073	1.8	1.0	2.0	1.0
10 E18433	2.5	1.0	3.5	2.5
11 E18580	1.3	1.0	2.0	1.0
12 E18610T	3.3	1.0	4.0	2.5
13 E18638T	1.8	1.0	1.5	2.3
14 LD17-2542	2.0	1.0	2.5	1.3
15 LD17-2558	2.0	1.0	3.0	1.0
16 LD17-2903	1.8	1.0	3.5	1.0
17 LD17-2967a	1.5	1.0	2.5	1.0
18 LD17-3185a	2.0	1.0	2.0	1.0
19 LD17-6035	1.8	1.0	1.0	1.0
20 LD17-6036a	1.5	1.0	3.0	1.0
21 LD17-6351	1.0	1.0	1.0	1.0
22 LD17-6422a	1.5	1.0	2.0	1.0
23 LD18-235	1.0	1.0	2.0	1.0
24 LD18-249	2.0	1.0	2.5	1.0
25 U18-613249	1.8	1.0	2.0	1.0
26 U18-615261	1.3	1.0	1.0	1.0
27 U18-615268	1.3	1.0	2.0	1.0
28 U18-617265	1.3	1.0	1.0	1.0
29 U18-913021	1.5	1.0	1.5	1.0
30 U18-915056	1.5	1.0	1.5	1.0
31 U18-917042	1.0	1.0	1.0	1.0
32 U18-917054	1.0	1.0	1.0	1.0

2020 SCN PRELIMINARY II

Height (inches)

	Pontiac	Decatur	Lincoln	Mead
	IL	MI	NE	NE
SCN HG Type	2.5.7	Inf	2.5.7	2.5.7
Strain				
1 IA2102	39	33	34	42
2 LD02-4485 (SCN)	38	35	36	41
3 U11-917032 (SCN)	34	29	31	36
4 U14-910097 (SCN)	36	30	32	37
5 E16915	38	32	32	40
6 E18012	34	26	32	42
7 E18015	35	29	29	39
8 E18024T	36	33	33	39
9 E18073	41	29	34	43
10 E18433	38	29	34	38
11 E18580	35	36	28	37
12 E18610T	36	31	32	39
13 E18638T	38	29	30	37
14 LD17-2542	37	32	34	41
15 LD17-2558	39	33	35	41
16 LD17-2903	36	31	32	38
17 LD17-2967a	37	32	35	40
18 LD17-3185a	35	31	33	41
19 LD17-6035	40	32	33	39
20 LD17-6036a	38	33	34	39
21 LD17-6351	35	26	32	35
22 LD17-6422a	31	24	29	33
23 LD18-235	38	30	35	40
24 LD18-249	39	29	36	42
25 U18-613249	44	35	37	46
26 U18-615261	37	29	34	40
27 U18-615268	38	30	33	39
28 U18-617265	37	28	33	42
29 U18-913021	39	35	35	43
30 U18-915056	40	32	40	42
31 U18-917042	35	31	32	37
32 U18-917054	34	28	29	37

2020 SCN PRELIMINARY II

Seed Weight (g/100)

	Pontiac	Decatur	Lincoln	Mead
	IL	MI	NE	NE
SCN HG Type	2.5.7	Inf	2.5.7	2.5.7
Strain				
1 IA2102	12.8		16.3	12.6
2 LD02-4485 (SCN)	12.6		14.5	12.4
3 U11-917032 (SCN)	12.7		15.4	12.4
4 U14-910097 (SCN)	13.1		14.3	10.7
5 E16915	14.5		17.4	13.0
6 E18012	12.7		16.6	12.0
7 E18015	16.0		19.3	14.9
8 E18024T	15.9		17.2	13.9
9 E18073	15.5		16.4	13.3
10 E18433	13.2		17.3	12.4
11 E18580	12.9		17.1	12.7
12 E18610T	15.9		18.5	14.5
13 E18638T	14.0		16.9	14.7
14 LD17-2542	14.3		15.7	12.9
15 LD17-2558	14.7		16.5	12.6
16 LD17-2903	13.9		15.4	13.5
17 LD17-2967a	14.0		14.9	11.8
18 LD17-3185a	14.6		16.5	11.0
19 LD17-6035	13.2		13.9	11.7
20 LD17-6036a	13.5		16.5	12.6
21 LD17-6351	14.8		15.6	13.1
22 LD17-6422a	15.5		16.2	14.2
23 LD18-235	10.9		12.6	10.2
24 LD18-249	13.2		15.4	12.8
25 U18-613249	12.2		13.6	10.2
26 U18-615261	11.7		14.1	10.5
27 U18-615268	12.6		14.9	11.9
28 U18-617265	12.9		15.3	11.7
29 U18-913021	10.9		12.9	10.2
30 U18-915056	12.6		13.6	11.0
31 U18-917042	10.3		11.7	11.3
32 U18-917054	11.5		13.1	11.2

2020 SCN PRELIMINARY II

Seed Quality (score)

	Pontiac	Decatur	Lincoln	Mead
	IL	MI	NE	NE
SCN HG Type	2.5.7	Inf	2.5.7	2.5.7
Strain				
1 IA2102	2.0		1.0	1.0
2 LD02-4485 (SCN)	3.0		1.0	1.0
3 U11-917032 (SCN)	3.0		1.0	1.0
4 U14-910097 (SCN)	2.0		1.0	1.0
5 E16915	2.0		1.0	1.0
6 E18012	2.0		1.0	1.0
7 E18015	2.0		1.0	1.0
8 E18024T	3.0		1.0	1.0
9 E18073	2.0		1.0	1.0
10 E18433	3.0		1.0	1.0
11 E18580	2.0		1.0	1.0
12 E18610T	2.0		1.0	1.0
13 E18638T	2.0		1.0	1.0
14 LD17-2542	2.0		1.0	1.0
15 LD17-2558	2.0		1.0	1.0
16 LD17-2903	2.0		1.0	1.0
17 LD17-2967a	2.0		1.0	1.0
18 LD17-3185a	2.0		1.0	1.0
19 LD17-6035	2.0		1.0	1.0
20 LD17-6036a	2.0		1.0	1.0
21 LD17-6351	2.0		1.0	1.0
22 LD17-6422a	2.0		1.0	1.0
23 LD18-235	1.0		1.0	1.0
24 LD18-249	2.0		1.0	1.0
25 U18-613249	3.0		1.0	1.0
26 U18-615261	2.0		1.0	1.0
27 U18-615268	2.0		1.0	1.0
28 U18-617265	2.0		1.0	1.0
29 U18-913021	2.0		1.0	1.0
30 U18-915056	2.0		1.0	1.0
31 U18-917042	2.0		1.0	1.0
32 U18-917054	2.0		1.0	1.0

2020 SCN PRELIMINARY II

Protein (%)				
	Pontiac	Decatur	Lincoln	Mead
	IL	MI	NE	NE
SCN HG Type	2.5.7	Inf	2.5.7	2.5.7
Strain				
1 IA2102	33.2		33.4	
2 LD02-4485 (SCN)	30.8		32.6	
3 U11-917032 (SCN)	32.8		30.9	
4 U14-910097 (SCN)	31.0		31.9	
5 E16915	32.1		32.7	
6 E18012	31.6		32.6	
7 E18015	31.6		33.6	
8 E18024T	34.2		33.4	
9 E18073	32.6		33.5	
10 E18433	32.5		32.9	
11 E18580	31.7		34.2	
12 E18610T	34.5		34.8	
13 E18638T	32.4		34.2	
14 LD17-2542	30.5		32.2	
15 LD17-2558	30.5		32.1	
16 LD17-2903	32.1		31.2	
17 LD17-2967a	31.8		31.6	
18 LD17-3185a	32.0		32.7	
19 LD17-6035	30.2		29.5	
20 LD17-6036a	30.6		32.0	
21 LD17-6351	33.4		34.3	
22 LD17-6422a	33.0		31.8	
23 LD18-235	31.8		32.8	
24 LD18-249	32.7		32.6	
25 U18-613249	31.1		32.9	
26 U18-615261	29.9		32.5	
27 U18-615268	33.4		33.3	
28 U18-617265	30.6		31.9	
29 U18-913021	31.6		32.0	
30 U18-915056	32.2		32.8	
31 U18-917042	31.1		31.8	
32 U18-917054	31.5		30.6	

2020 SCN PRELIMINARY II

Oil (%)

	Pontiac	Decatur	Lincoln	Mead
	IL	MI	NE	NE
SCN HG Type	2.5.7	Inf	2.5.7	2.5.7
Strain				
1 IA2102	20.2		19.4	
2 LD02-4485 (SCN)	20.9		18.5	
3 U11-917032 (SCN)	22.1		21.2	
4 U14-910097 (SCN)	20.9		20.7	
5 E16915	19.4		20.0	
6 E18012	20.9		19.4	
7 E18015	19.6		19.3	
8 E18024T	19.2		19.0	
9 E18073	22.0		20.2	
10 E18433	21.3		19.9	
11 E18580	20.7		19.9	
12 E18610T	19.7		18.9	
13 E18638T	20.6		19.5	
14 LD17-2542	20.7		19.7	
15 LD17-2558	20.7		19.3	
16 LD17-2903	21.0		21.3	
17 LD17-2967a	20.3		19.8	
18 LD17-3185a	19.9		18.7	
19 LD17-6035	21.2		21.8	
20 LD17-6036a	20.9		19.4	
21 LD17-6351	21.7		20.7	
22 LD17-6422a	21.4		21.0	
23 LD18-235	19.0		19.2	
24 LD18-249	20.0		19.9	
25 U18-613249	19.5		19.3	
26 U18-615261	21.0		19.0	
27 U18-615268	19.3		19.6	
28 U18-617265	21.7		21.1	
29 U18-913021	19.5		19.3	
30 U18-915056	19.3		19.8	
31 U18-917042	20.8		19.7	
32 U18-917054	21.1		20.2	