

## 2019 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 E17054	PGy	IA2102 x E07051	F5	Rps1	PI 88788
6 E17069	WGy	IA2102 x E06240	F5		PI 88788
7 E17143	PTbl	E07051 x (E13906 x E13816)	F5	High oleic	PI 88788
8 E17167	PGbf	Jilin 20-2 x AR09-191018	F5		Peking
9 E17184	PGy	Jilin 20-2 x LD01-7323	F5		PI 88788
10 E17203	PGbf	E11128T x LD02-4485	F5		PI 88788
11 E17227	PGibl	(E07051 x E11101) x (E07051 x E06380)	F5		PI 88788
12 E17269	WGbf	E13367 x AR09-191018	F5	Aphid, Rps1	PI 88788
13 E17274	WGy/bf	E13367 x IA2102	F5	Aphid, Rps1	PI 88788
14 E17275	WGbf	E13367 x IA2102	F5	Aphid, Rps1	PI 88788
15 E17283	P+WGibl/bf	E13367 x E05181-T	F5	Aphid, Rps1	PI 88788
16 E17506T	PGy	LD01-7323 x Jilin 20	F5		PI 88788
17 E17508	PGy	LD01-7323 x Jilin 20-2	F5		PI 88788
18 E17801-08	PGibl/bf	E07051 x E13802	F7	High oleic	PI 88788
19 E17804-01	Pgibl	E07051 x E15805	F5	High oleic	PI 88788
20 LD16-4302a	WGbf	HM09-W084 x LD09-30224	F5	Rag 1	PI 88788
21 LD16-4766a	PGbf	AR10-205011 x LD09-30224	F5	Rag 1	PI 88788
22 LD16-4852	PGibl	LD09-30015 x LD09-30224	F5		PI 88788
23 LD16-4942a	PGbf	LD10- 5903a x 13PRF4 LDX11050a	F5	Rag 1+2	PI 88788
24 LD16-6557	P+WGbf	LD07-3419 x AR10-205011	F5		PI 88788,437654
25 LD16-6830	PGibl	LD07-3419 x LD10-10226	F5		PI 88788,437654
26 LD16-6924	P+WGy	LD07-3419 x LD10-10226	F5		PI 88788,437654
27 LD16-7136	PGibl	LD07-3395 x LD10-10198	F5		PI 88788,437654
28 U17-908050	PLt+Gbl/ibl	LD09-30224 x U11-911079	F5		PI 88788,437654

2019 SCN PRELIMINARY II

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 IA2102	22	18	31	11	R	164	217	158	66	NR
2 LD02-4485 (SCN)	38	3	41	12	R	159	168	169	60	NR
3 U11-917032 (SCN)	16	12	19	7	HR	199	206	218	76	NR
4 U14-910097 (SCN)	2	2	1	1	HR	6	3	9	2	HR
5 E17054	4	9	12	4	HR	223	207	209	78	NR
6 E17069	7	29	31	10	R	238	206	217	81	NR
7 E17143	11	16	17	7	HR	289	208	300	97	NR
8 E17167	5	2	1	1	HR	162	149	174	59	NR
9 E17184	4	3	10	3	HR	140	123	155	51	LR
10 E17203	11	9	13	5	HR	247	256	255	92	NR
11 E17227	19	23	26	10	R	261	255	261	95	NR
12 E17269	37	29	44	16	R	281	288	259	101	NR
13 E17274	22	16	25	9	HR	184	276	198	80	NR
14 E17275	3	3	8	2	HR	261	136	237	77	NR
15 E17283	0	1	13	2	HR	146	132	155	53	LR
16 E17506T	11	5	12	4	HR	163	181	170	63	NR
17 E17508	27	23	34	13	R	193	211	202	74	NR
18 E17801-08	98	77	114	43	LR	218	239	228	83	NR
19 E17804-01	3	4	3	1	HR	135	175	151	56	LR
20 LD16-4302a	2	1	9	2	HR	195	141	181	63	NR
21 LD16-4766a	5	7	8	3	HR	122	116	136	46	LR
22 LD16-4852	4	12	13	4	HR	81	135	187	49	LR
23 LD16-4942a	15	11	11	6	HR	177	165	177	63	NR
24 LD16-6557	16	13	19	7	HR	175	253	183	74	NR
25 LD16-6830	1	1	3	1	HR	237	209	219	81	NR
26 LD16-6924	21	33	30	13	R	183	156	172	62	NR
27 LD16-7136	16	8	22	7	R	143	135	148	52	LR
28 U17-908050	89	71	98	39	MR	129	122	140	48	LR

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

## 2019 SCN PRELIMINARY II

## 2019 Summary

Entry	Yield						Maturity date	Lodging score	Height in.	Seed				
	All		Infested		Non-infested					weight	quality	protein	oil	
	bu/a	rank	bu/a	rank	bu/a	rank				g/100	score	@13%	@13%	
	Locations	3		3*		0		3		3		3		3
1 IA2102		52.4	15	53.8	15		9/22	2.1	32	15.6	1.3	34.1	17.7	
2 LD02-4485 (SCN)		54.5	9	54.2	9		1	1.4	32	15.4	1.7	32.1	18.5	
3 U11-917032 (SCN)		47.6	24	47.9	24		-4	1.1	29	14.8	1.7	33.0	19.0	
4 U14-910097 (SCN)		59.8	1	59.4	1		3	1.3	31	14.4	1.7	32.6	19.1	
5 E17054		54.0	12	53.8	12		-1	1.1	32	17.3	1.7	34.3	17.4	
6 E17069		57.4	3	57.4	3		4	2.1	38	17.3	1.7	36.3	17.8	
7 E17143		44.4	27	44.2	27		2	1.1	32	15.7	1.3	36.4	16.6	
8 E17167		53.6	13	54.1	13		0	1.6	35	17.4	1.7	34.7	18.7	
9 E17184		51.3	17	51.9	17		-2	1.6	32	16.0	1.3	34.2	19.0	
10 E17203		55.8	5	55.8	5		0	1.1	31	15.8	2.3	34.1	17.7	
11 E17227		52.5	14	52.9	14		3	1.1	31	18.2	1.7	34.3	18.0	
12 E17269		54.7	8	55.1	8		-1	1.2	30	14.5	1.3	33.8	17.9	
13 E17274		48.0	23	48.6	23		-4	2.3	31	13.3	1.3	33.1	17.6	
14 E17275		54.2	10	54.3	10		-1	2.0	31	14.6	1.7	33.8	17.6	
15 E17283		55.3	6	55.3	6		6	1.1	29	19.0	2.3	35.0	17.9	
16 E17506T		50.9	20	50.9	20		-2	1.2	32	21.1	1.3	34.3	18.0	
17 E17508		51.1	19	51.1	19		2	1.0	28	20.2	1.7	35.7	18.0	
18 E17801-08		39.7	28	40.2	28		2	1.6	32	13.5	1.7	34.3	16.8	
19 E17804-01		49.5	21	49.7	21		0	1.0	30	17.7	1.7	35.5	17.0	
20 LD16-4302a		54.9	7	55.7	7		1	1.1	31	15.5	1.7	35.6	16.4	
21 LD16-4766a		56.9	4	57.0	4		1	1.0	31	16.8	1.3	34.9	17.7	
22 LD16-4852		57.7	2	58.3	2		3	1.1	31	14.7	1.7	33.4	18.0	
23 LD16-4942a		45.1	26	45.6	26		-3	1.5	30	15.8	2.0	33.4	19.4	
24 LD16-6557		52.1	16	52.7	16		3	1.1	30	16.6	1.7	34.1	18.6	
25 LD16-6830		48.6	22	49.0	22		1	1.0	27	15.1	1.3	33.3	19.4	
26 LD16-6924		47.6	25	47.5	25		3	1.1	29	15.4	1.7	33.6	17.8	
27 LD16-7136		54.1	11	54.9	11		2	1.0	29	16.3	1.7	33.3	19.2	
28 U17-908050		51.3	17	49.7	17		2	1.1	29	14.1	1.7	33.2	19.6	
Mean		51.9		51.9					31	16.1	1.6	34.1	18.1	
LSD(.05)		3.0		3.0										
C.V. %		6.3		6.3										
Replications		7		7										

\*Bellwood, NE yield data not included in means

## 2019 SCN PRELIMINARY II

## Yield (bu/a)

SCN HG Type	Pontiac	Urbana	Decatur	Bellwood
	IL	IL	MI	NE
SCN HG Type	2.5.7	2.5.7	Inf	2.5.7
Strain				
1 IA2102	62.4	51.1	48.0	53.6
2 LD02-4485 (SCN)	64.9	58.1	39.6	71.0
3 U11-917032 (SCN)	61.7	44.5	37.4	47.6
4 U14-910097 (SCN)	68.3	61.1	48.9	56.1
5 E17054	63.2	52.9	45.2	64.5
6 E17069	66.5	57.6	48.2	57.9
7 E17143	55.0	51.7	25.8	46.9
8 E17167	62.8	53.5	45.9	51.4
9 E17184	59.8	50.5	45.4	51.8
10 E17203	63.8	59.5	44.0	57.0
11 E17227	59.9	56.4	42.4	58.6
12 E17269	63.5	55.5	46.3	44.7
13 E17274	60.3	48.4	37.0	44.0
14 E17275	61.4	56.3	45.3	45.9
15 E17283	65.1	56.4	44.6	66.1
16 E17506T	60.3	55.4	37.1	37.7
17 E17508	61.5	54.3	37.5	47.9
18 E17801-08	53.1	45.9	21.5	33.8
19 E17804-01	57.3	54.8	37.0	56.1
20 LD16-4302a	60.5	58.7	47.9	58.9
21 LD16-4766a	66.3	61.4	43.2	60.4
22 LD16-4852	67.8	66.2	40.8	56.7
23 LD16-4942a	51.8	49.6	35.5	39.8
24 LD16-6557	65.1	56.2	36.9	60.2
25 LD16-6830	61.6	54.8	30.5	58.1
26 LD16-6924	60.9	54.0	27.6	44.1
27 LD16-7136	64.3	58.4	41.9	52.5
28 U17-908050	64.8	53.3	31.1	45.0
Average	61.9	54.9	39.7	52.4
LSD(2-sided,.05)	5.4	6.3	6.5	15.5
C.V. %	4.2	5.6	8.4	16.7
Replications	2	2	3	2
Row spacing (in.)	30	30	30	30

## 2019 SCN PRELIMINARY II

## Yield (rank)

SCN HG Type	Pontiac	Urbana	Decatur	Bellwood
	IL	IL	MI	NE
	2.5.7	2.5.7	Inf	2.5.7
Strain				
1 IA2102	14	23	3	14
2 LD02-4485 (SCN)	7	7	16	1
3 U11-917032 (SCN)	15	28	18	19
4 U14-910097 (SCN)	1	3	1	13
5 E17054	12	21	9	3
6 E17069	3	8	2	9
7 E17143	26	22	27	20
8 E17167	13	19	6	17
9 E17184	24	24	7	16
10 E17203	10	4	11	10
11 E17227	23	9	13	7
12 E17269	11	13	5	23
13 E17274	21	26	21	25
14 E17275	18	11	8	21
15 E17283	5	9	10	2
16 E17506T	21	14	19	27
17 E17508	17	17	17	18
18 E17801-08	27	27	28	28
19 E17804-01	25	15	20	12
20 LD16-4302a	20	5	4	6
21 LD16-4766a	4	2	12	4
22 LD16-4852	2	1	15	11
23 LD16-4942a	28	25	23	26
24 LD16-6557	5	12	22	5
25 LD16-6830	16	15	25	8
26 LD16-6924	19	18	26	24
27 LD16-7136	9	6	14	15
28 U17-908050	8	20	24	22

## 2019 SCN PRELIMINARY II

## Maturity

	Pontiac	Urbana	Decatur	Bellwood
	IL	IL	MI	NE
SCN HG Type	2.5.7	2.5.7	Inf	2.5.7
Strain				
1 IA2102	9/26	9/22		9/17
2 LD02-4485 (SCN)	0	2		2
3 U11-917032 (SCN)	-6	-6		-1
4 U14-910097 (SCN)	4	2		2
5 E17054	-1	0		-1
6 E17069	6	4		2
7 E17143	1	4		2
8 E17167	0	0		1
9 E17184	-3	-2		-1
10 E17203	-1	0		1
11 E17227	3	4		1
12 E17269	-3	0		-1
13 E17274	-6	-4		-2
14 E17275	-1	-2		0
15 E17283	5	8		4
16 E17506T	-2	0		-4
17 E17508	2	2		1
18 E17801-08	2	2		2
19 E17804-01	-1	0		1
20 LD16-4302a	2	2		-1
21 LD16-4766a	2	2		0
22 LD16-4852	4	4		1
23 LD16-4942a	-3	-6		0
24 LD16-6557	2	4		2
25 LD16-6830	2	0		1
26 LD16-6924	2	4		2
27 LD16-7136	3	2		1
28 U17-908050	2	2		2
Planted	6/7	6/5	5/11	5/15

## 2019 SCN PRELIMINARY II

## Lodging (score)

	Pontiac	Urbana	Decatur	Bellwood
	IL	IL	MI	NE
SCN HG Type	2.5.7	2.5.7	Inf	2.5.7
Strain				
1 IA2102	2.3	2.5	1.7	2.0
2 LD02-4485 (SCN)	1.5	1.0	1.0	2.0
3 U11-917032 (SCN)	1.5	1.0	1.0	1.0
4 U14-910097 (SCN)	1.5	1.0	1.3	1.5
5 E17054	1.3	1.0	1.3	1.0
6 E17069	2.3	2.0	2.3	2.0
7 E17143	1.0	1.0	1.3	1.0
8 E17167	2.0	1.5	1.3	1.5
9 E17184	2.0	1.0	1.7	1.5
10 E17203	1.0	1.0	1.0	1.5
11 E17227	1.5	1.0	1.0	1.0
12 E17269	1.5	1.0	1.3	1.0
13 E17274	2.0	2.0	2.7	2.5
14 E17275	1.8	2.0	2.3	2.0
15 E17283	1.5	1.0	1.0	1.0
16 E17506T	1.8	1.0	1.0	1.0
17 E17508	1.0	1.0	1.0	1.0
18 E17801-08	1.8	1.5	1.0	2.0
19 E17804-01	1.0	1.0	1.0	1.0
20 LD16-4302a	1.0	1.0	1.3	1.0
21 LD16-4766a	1.0	1.0	1.0	1.0
22 LD16-4852	1.0	1.0	1.0	1.5
23 LD16-4942a	1.5	1.0	1.3	2.0
24 LD16-6557	1.3	1.0	1.0	1.0
25 LD16-6830	1.0	1.0	1.0	1.0
26 LD16-6924	1.0	1.0	1.0	1.5
27 LD16-7136	1.0	1.0	1.0	1.0
28 U17-908050	1.3	1.0	1.0	1.0

2019 SCN PRELIMINARY II

Height (inches)

	Pontiac	Urbana	Decatur	Bellwood
	IL	IL	MI	NE
SCN HG Type	2.5.7	2.5.7	Inf	2.5.7
Strain				
1 IA2102	34	33	30	
2 LD02-4485 (SCN)	33	33	31	
3 U11-917032 (SCN)	31	28	28	
4 U14-910097 (SCN)	33	30	30	
5 E17054	33	29	34	
6 E17069	41	36	38	
7 E17143	32	34	31	
8 E17167	41	30	35	
9 E17184	35	30	32	
10 E17203	32	31	31	
11 E17227	31	32	30	
12 E17269	32	30	29	
13 E17274	35	29	28	
14 E17275	32	32	29	
15 E17283	32	27	28	
16 E17506T	38	31	28	
17 E17508	28	29	28	
18 E17801-08	35	33	27	
19 E17804-01	31	29	29	
20 LD16-4302a	31	29	32	
21 LD16-4766a	32	28	32	
22 LD16-4852	35	31	28	
23 LD16-4942a	33	30	26	
24 LD16-6557	33	29	28	
25 LD16-6830	29	27	25	
26 LD16-6924	30	30	26	
27 LD16-7136	31	29	28	
28 U17-908050	33	29	24	



2019 SCN PRELIMINARY II

Seed Weight (g/100)

SCN HG Type	Pontiac	Urbana	Decatur	Bellwood
	IL	IL	MI	NE
Strain	2.5.7	2.5.7	Inf	2.5.7
1 IA2102	16.9	16.6		13.3
2 LD02-4485 (SCN)	16.4	16.5		13.5
3 U11-917032 (SCN)	16.7	14.2		13.5
4 U14-910097 (SCN)	16.3	15.2		11.8
5 E17054	18.7	18.9		14.5
6 E17069	19.5	17.9		14.4
7 E17143	17.3	17.2		12.7
8 E17167	18.8	18.1		15.3
9 E17184	17.4	16.0		14.7
10 E17203	17.0	16.7		13.6
11 E17227	20.8	19.4		14.3
12 E17269	15.5	15.1		13.0
13 E17274	14.6	13.5		11.8
14 E17275	16.4	15.4		12.2
15 E17283	21.6	20.1		15.2
16 E17506T	22.4	22.5		18.5
17 E17508	22.1	20.7		17.7
18 E17801-08	14.8	13.8		11.9
19 E17804-01	18.9	19.0		15.3
20 LD16-4302a	16.3	16.9		13.2
21 LD16-4766a	18.2	17.5		14.6
22 LD16-4852	16.2	16.2		11.9
23 LD16-4942a	16.6	16.5		14.2
24 LD16-6557	18.2	17.6		14.0
25 LD16-6830	16.9	15.4		12.9
26 LD16-6924	17.0	16.5		12.6
27 LD16-7136	17.9	17.9		13.2
28 U17-908050	15.8	14.3		12.3

## 2019 SCN PRELIMINARY II

## Seed Quality (score)

SCN HG Type	Pontiac	Urbana	Decatur	Bellwood
	IL	IL	MI	NE
	2.5.7	2.5.7	Inf	2.5.7
Strain				
1 IA2102	1.0	2.0		1.0
2 LD02-4485 (SCN)	2.0	2.0		1.0
3 U11-917032 (SCN)	2.0	2.0		1.0
4 U14-910097 (SCN)	2.0	2.0		1.0
5 E17054	2.0	2.0		1.0
6 E17069	2.0	2.0		1.0
7 E17143	1.0	2.0		1.0
8 E17167	2.0	2.0		1.0
9 E17184	1.0	2.0		1.0
10 E17203	3.0	3.0		1.0
11 E17227	2.0	2.0		1.0
12 E17269	1.0	2.0		1.0
13 E17274	1.0	2.0		1.0
14 E17275	2.0	2.0		1.0
15 E17283	3.0	3.0		1.0
16 E17506T	1.0	2.0		1.0
17 E17508	2.0	2.0		1.0
18 E17801-08	2.0	2.0		1.0
19 E17804-01	2.0	2.0		1.0
20 LD16-4302a	2.0	2.0		1.0
21 LD16-4766a	1.0	2.0		1.0
22 LD16-4852	2.0	2.0		1.0
23 LD16-4942a	2.0	3.0		1.0
24 LD16-6557	2.0	2.0		1.0
25 LD16-6830	1.0	2.0		1.0
26 LD16-6924	2.0	2.0		1.0
27 LD16-7136	2.0	2.0		1.0
28 U17-908050	2.0	2.0		1.0

## 2019 SCN PRELIMINARY II

## Protein (%)

SCN HG Type	Pontiac	Urbana	Decatur	Bellwood
	IL	IL	MI	NE
Strain	2.5.7	2.5.7	Inf	2.5.7
1 IA2102	33.0	34.6		34.7
2 LD02-4485 (SCN)	31.8	32.6		31.9
3 U11-917032 (SCN)	31.4	33.7		34.0
4 U14-910097 (SCN)	31.9	33.1		32.6
5 E17054	33.2	35.0		34.6
6 E17069	35.4	36.1		37.2
7 E17143	35.6	35.9		37.8
8 E17167	34.1	34.7		35.3
9 E17184	33.3	35.0		34.3
10 E17203	33.8	34.1		34.5
11 E17227	33.6	34.7		34.7
12 E17269	33.0	33.9		34.7
13 E17274	32.2	32.9		34.2
14 E17275	33.0	33.6		34.7
15 E17283	35.3	35.6		34.2
16 E17506T	34.2	34.2		34.4
17 E17508	35.9	35.5		35.7
18 E17801-08	34.0	33.8		35.1
19 E17804-01	34.9	36.2		35.4
20 LD16-4302a	34.7	36.2		35.8
21 LD16-4766a	34.5	34.1		36.0
22 LD16-4852	32.1	33.9		34.2
23 LD16-4942a	33.3	33.5		33.3
24 LD16-6557	33.7	34.0		34.6
25 LD16-6830	32.6	33.5		33.6
26 LD16-6924	31.7	34.7		34.3
27 LD16-7136	32.1	34.2		33.5
28 U17-908050	32.5	34.0		33.2

## 2019 SCN PRELIMINARY II

## Oil (%)

SCN HG Type	Pontiac	Urbana	Decatur	Bellwood
	IL	IL	MI	NE
SCN HG Type	2.5.7	2.5.7	Inf	2.5.7
Strain				
1 IA2102	18.1	18.1		16.9
2 LD02-4485 (SCN)	18.5	18.5		18.5
3 U11-917032 (SCN)	19.6	18.8		18.6
4 U14-910097 (SCN)	19.2	19.9		18.3
5 E17054	18.0	17.4		16.8
6 E17069	17.8	18.0		17.5
7 E17143	16.9	17.1		15.7
8 E17167	18.7	19.1		18.3
9 E17184	19.2	19.1		18.7
10 E17203	17.6	18.1		17.6
11 E17227	18.4	17.9		17.8
12 E17269	17.7	18.3		17.8
13 E17274	17.6	17.9		17.1
14 E17275	17.4	18.3		17.1
15 E17283	17.9	17.7		18.0
16 E17506T	17.4	18.3		18.2
17 E17508	18.0	18.2		17.8
18 E17801-08	16.5	16.6		17.2
19 E17804-01	16.9	17.3		16.8
20 LD16-4302a	16.1	16.7		16.3
21 LD16-4766a	17.8	18.4		17.0
22 LD16-4852	18.4	17.7		17.7
23 LD16-4942a	19.2	19.6		19.3
24 LD16-6557	18.8	18.8		18.2
25 LD16-6830	19.8	19.8		18.7
26 LD16-6924	18.9	17.8		16.7
27 LD16-7136	20.0	19.0		18.7
28 U17-908050	20.1	19.7		19.1