

2019 SCN PRELIMINARY III

Strain	FPhIm	Parentage	Gen. Comp.	Traits	SCN Resistance source
1 LD11-2170 (SCN)	PLtbr	Syngenta 03JR313108 x LD05-3171	F5		PI 88788
2 IA3048 (SCN)	WGy	Dairyland 99540 x IA2068	F4		PI 88788
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 LD16-3374	WGy/bf	LD07-3419 x LD10-9110	F5		PI 88788,437654
6 LD16-4047	WGy	S10-11200 x LD10-9823	F5		PI 88788,437654
7 LD16-6787	WGy	LD07-3419 x LD10-10226	F5		PI 88788,437654
8 LD16-6886	PGy/ibl	LD07-3419 x LD10-10226	F5		PI 88788,437654
9 LD16-6888	WGy	LD07-3419 x LD10-10226	F5		PI 88788,437654
10 LD16-6893	PGgr	LD07-3419 x LD10-10226	F5		PI 88788,437654
11 LD16-7126	WGy	LD07-3395 x LD10-10198	F5		PI 88788,437654
12 LD16-7622	PGibl/bf	LD07-3395 x U09-133021	F5		PI 88788,437654
13 LD16-7637	PGibl	LD07-3395 x U09-133021	F5		PI 88788,437654
14 LD16-7669	PLt+Gbl/ibl	LD07-3395 x U09-133021	F5		PI 88788,437654
15 SA16-1961	WTy/br	LG11-6208 x A12-961054	F5		PI 88788
16 SA16-2194	WTy/br	U11-616086 x A12-961044	F5		PI 88788
17 SA16-10349	PGibl	Ellis x LD11-10927	F5		PI 88788
18 SA16-12014	WGy	SA12-1530 x LD10-2477	F5		PI 88788
19 SA16-12491	PGibl	LS09-1803 x LD09-10911	F5		PI 88788
20 SA16-12880	PGibl	U11-616086 x LS09-2659	F5		PI 88788

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Entry	IL SCN screening									
	cyst counts			HG 0		cyst counts			HG 2.5.7	
	rep1	rep2	rep3	Fl	rating	rep1	rep2	rep3	Fl	rating
1 LD11-2170 (SCN)	11	7	15	9	HR	238	44*	217	83	NR
2 IA3048 (SCN)	1	2	9	2	HR	217	167	225	74	NR
3 LD07-3395bf (SCN)	9	7	5	3	HR	7*	16*	6*	4	HR
4 U14-910097 (SCN)	2	2	1	1	HR	6	3	9	2	HR
5 LD16-3374	3	2	41	7	HR	173	5*	161	61	NR
6 LD16-4047	53	49	48	22	R	99	107	86	48	LR
7 LD16-6787	16	14	10	6	HR	1*	131	118	61	NR
8 LD16-6886	91	109	96	44	LR	170	163	163	60	NR
9 LD16-6888	53	48	48	22	R	132	128	145	49	LR
10 LD16-6893	22	16	38	11	R	182	164	193	66	NR
11 LD16-7126	13	20	19	8	HR	132	138	144	50	LR
12 LD16-7622	2	4	1	1	HR	4	1	3	1	HR
13 LD16-7637	8	11	16	5	HR	4	6	5	2	HR
14 LD16-7669	3	0	12	2	HR	125	102	113	56	LR
15 SA16-1961	21	19	19	9	HR	143	194	152	60	NR
16 SA16-2194	21	16	23	9	HR	193	178	131	61	NR
17 SA16-10349	73	76	89	36	MR	237	152	217	74	NR
18 SA16-12014	38	8*	45	19	R	239	238	213	84	NR
19 SA16-12491	8	9	17	5	HR	155	122	145	51	LR
20 SA16-12880	4	8	9	3	HR	176	156	166	61	NR

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

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Yield (bu/a)

SCN HG Type	Arthur	Urbana	Bellwood	Manhattan
	IL	IL	NE	KS
	2.5.7	2.5.7	2.5.7	NI
Strain				
1 LD11-2170 (SCN)	80.2	54.9	69.6	27.1
2 IA3048 (SCN)	74.4	42.7	66.4	15.2
3 LD07-3395bf (SCN)	79.9	39.4	62.3	23.4
4 U14-910097 (SCN)	79.3	42.3	59.7	24.3
5 LD16-3374	71.0	33.4	56.2	14.8
6 LD16-4047	76.2	31.1	41.2	20.2
7 LD16-6787	82.0	43.5	60.9	21.7
8 LD16-6886	80.5	43.2	64.3	22.5
9 LD16-6888	79.6	36.3	57.1	20.2
10 LD16-6893	77.7	39.0	61.0	21.5
11 LD16-7126	79.2	41.4	62.5	19.3
12 LD16-7622	77.5	38.8	53.1	15.8
13 LD16-7637	78.9	39.7	54.9	21.0
14 LD16-7669	76.2	30.3	65.4	22.4
15 SA16-1961	61.2	39.2	47.6	17.1
16 SA16-2194	71.7	31.7	48.6	20.7
17 SA16-10349	70.1	39.4	54.3	17.6
18 SA16-12014	81.5	41.1	55.8	16.7
19 SA16-12491	78.7	44.3	47.9	28.4
20 SA16-12880	70.7	40.1	56.4	11.6
Average	76.3	39.6	57.3	20.0
LSD(2-sided,.05)	8.1	6.0	6.3	4.7
C.V. %	5.1	7.3	7.5	11.1
Replications	2	2	2	2
Row spacing (in.)	30	30	30	30

2019 SCN PRELIMINARY III

Yield (rank)

	Arthur	Urbana	Bellwood	Manhattan
	IL	IL	NE	KS
SCN HG Type	2.5.7	2.5.7	2.5.7	NI
Strain				
1 LD11-2170 (SCN)	4	1	1	2
2 IA3048 (SCN)	15	5	2	18
3 LD07-3395bf (SCN)	5	11	6	4
4 U14-910097 (SCN)	7	6	9	3
5 LD16-3374	17	17	12	19
6 LD16-4047	13	19	20	11
7 LD16-6787	1	3	8	7
8 LD16-6886	3	4	4	5
9 LD16-6888	6	16	10	12
10 LD16-6893	11	14	7	8
11 LD16-7126	8	7	5	13
12 LD16-7622	12	15	16	17
13 LD16-7637	9	10	14	9
14 LD16-7669	13	20	3	6
15 SA16-1961	20	13	19	15
16 SA16-2194	16	18	17	10
17 SA16-10349	19	11	15	14
18 SA16-12014	2	8	13	16
19 SA16-12491	10	2	18	1
20 SA16-12880	18	9	11	20

2019 SCN PRELIMINARY III

Maturity

	Arthur	Urbana	Bellwood	Manhattan
	IL	IL	NE	KS
SCN HG Type	2.5.7	2.5.7	2.5.7	NI
Strain				
1 LD11-2170 (SCN)	10/02	9/30	9/20	9/28
2 IA3048 (SCN)	0	0	0	1
3 LD07-3395bf (SCN)	1	4	2	5
4 U14-910097 (SCN)	0	-2	-2	-1
5 LD16-3374	1	2	-2	2
6 LD16-4047	0	6	2	5
7 LD16-6787	4	4	3	4
8 LD16-6886	1	0	1	0
9 LD16-6888	1	-2	0	-2
10 LD16-6893	1	-2	1	-2
11 LD16-7126	2	2	3	3
12 LD16-7622	0	0	-1	-1
13 LD16-7637	1	2	-1	0
14 LD16-7669	2	2	3	1
15 SA16-1961	0	4	2	13
16 SA16-2194	4	4	3	11
17 SA16-10349	0	4	3	6
18 SA16-12014	0	4	0	1
19 SA16-12491	4	6	4	9
20 SA16-12880	3	6	3	4
Planted	6/4	6/5	5/15	6/5

2019 SCN PRELIMINARY III

Lodging (score)

	Arthur	Urbana	Bellwood	Manhattan
	IL	IL	NE	KS
SCN HG Type	2.5.7	2.5.7	2.5.7	NI
Strain				
1 LD11-2170 (SCN)	1.0	1.0	1.0	2.0
2 IA3048 (SCN)	2.0	1.0	1.5	3.0
3 LD07-3395bf (SCN)	1.0	1.0	1.0	1.5
4 U14-910097 (SCN)	1.8	1.0	1.5	2.0
5 LD16-3374	1.0	1.0	1.0	2.0
6 LD16-4047	1.0	1.0	1.0	1.0
7 LD16-6787	1.0	1.0	1.0	1.5
8 LD16-6886	1.3	1.0	1.0	2.0
9 LD16-6888	1.0	1.0	1.0	2.0
10 LD16-6893	1.0	1.0	1.0	1.5
11 LD16-7126	1.0	1.0	1.0	1.5
12 LD16-7622	1.3	1.0	1.0	2.5
13 LD16-7637	1.3	1.0	1.0	2.0
14 LD16-7669	1.5	1.0	1.0	1.5
15 SA16-1961	1.3	1.0	1.5	1.5
16 SA16-2194	1.3	1.0	1.0	2.0
17 SA16-10349	1.0	1.0	1.0	2.5
18 SA16-12014	2.8	1.0	2.0	2.5
19 SA16-12491	1.5	1.0	1.5	1.0
20 SA16-12880	2.0	1.0	2.0	3.0

2019 SCN PRELIMINARY III

Height (inches)

	Arthur	Urbana	Bellwood	Manhattan
	IL	IL	NE	KS
SCN HG Type	2.5.7	2.5.7	2.5.7	NI
Strain				
1 LD11-2170 (SCN)	30	26		28
2 IA3048 (SCN)	30	26		32
3 LD07-3395bf (SCN)	30	23		28
4 U14-910097 (SCN)	29	24		30
5 LD16-3374	28	24		27
6 LD16-4047	32	24		28
7 LD16-6787	32	26		29
8 LD16-6886	31	24		29
9 LD16-6888	29	21		29
10 LD16-6893	28	22		28
11 LD16-7126	28	25		28
12 LD16-7622	31	23		29
13 LD16-7637	33	24		32
14 LD16-7669	33	24		31
15 SA16-1961	29	24		29
16 SA16-2194	30	24		32
17 SA16-10349	31	25		31
18 SA16-12014	35	28		31
19 SA16-12491	32	27		30
20 SA16-12880	35	30		25

2019 SCN PRELIMINARY III

Seed Weight (g/100)

	Arthur	Urbana	Bellwood	Manhattan
	IL	IL	NE	KS
SCN HG Type	2.5.7	2.5.7	2.5.7	NI
Strain				
1 LD11-2170 (SCN)	18.5	15.6	13.2	14.0
2 IA3048 (SCN)	18.6	15.0	13.2	12.2
3 LD07-3395bf (SCN)	18.2	16.1	12.5	14.9
4 U14-910097 (SCN)	18.5	15.2	11.9	12.5
5 LD16-3374	17.5	14.6	12.1	13.5
6 LD16-4047	14.6	13.3	10.0	11.2
7 LD16-6787	18.3	15.9	11.9	11.7
8 LD16-6886	20.7	17.4	14.5	14.9
9 LD16-6888	18.5	15.7	13.7	13.1
10 LD16-6893	19.6	16.0	14.6	14.3
11 LD16-7126	19.1	16.4	14.7	14.7
12 LD16-7622	15.5	13.2	10.1	11.6
13 LD16-7637	17.1	14.7	10.4	11.4
14 LD16-7669	14.7	13.7	10.4	10.2
15 SA16-1961	14.9	14.0	10.4	12.7
16 SA16-2194	16.6	14.5	11.7	13.1
17 SA16-10349	16.6	15.3	12.1	13.7
18 SA16-12014	16.8	15.4	11.6	11.1
19 SA16-12491	14.8	13.7	10.5	12.2
20 SA16-12880	17.5	16.5	12.3	15.7

2019 SCN PRELIMINARY III

Seed Quality (score)

	Arthur	Urbana	Bellwood	Manhattan
	IL	IL	NE	KS
SCN HG Type	2.5.7	2.5.7	2.5.7	NI
Strain				
1 LD11-2170 (SCN)	2.0	2.0	1.0	3.0
2 IA3048 (SCN)	2.0	2.0	1.0	3.0
3 LD07-3395bf (SCN)	2.0	2.0	1.0	3.0
4 U14-910097 (SCN)	2.0	2.0	1.0	3.0
5 LD16-3374	1.0	2.0	1.0	3.0
6 LD16-4047	2.0	2.0	1.0	3.0
7 LD16-6787	1.0	2.0	1.0	4.0
8 LD16-6886	2.0	2.0	1.5	3.0
9 LD16-6888	2.0	1.0	1.5	4.0
10 LD16-6893	2.0	2.0	1.5	3.0
11 LD16-7126	2.0	1.0	2.0	3.0
12 LD16-7622	2.0	1.0	1.5	4.0
13 LD16-7637	2.0	3.0	1.5	5.0
14 LD16-7669	2.0	2.0	1.0	3.0
15 SA16-1961	2.0	2.0	1.5	3.0
16 SA16-2194	2.0	2.0	1.0	3.0
17 SA16-10349	2.0	2.0	1.0	3.0
18 SA16-12014	2.0	2.0	1.0	3.0
19 SA16-12491	2.0	2.0	1.0	3.0
20 SA16-12880	2.0	2.0	1.5	3.0

2019 SCN PRELIMINARY III

Protein (%)

	Arthur	Urbana	Bellwood	Manhattan
	IL	IL	NE	KS
SCN HG Type	2.5.7	2.5.7	2.5.7	NI
Strain				
1 LD11-2170 (SCN)	34.7	34.7	35.1	
2 IA3048 (SCN)	34.1	34.0	34.4	
3 LD07-3395bf (SCN)	31.5	32.3	32.9	
4 U14-910097 (SCN)	33.2	33.1	34.5	
5 LD16-3374	31.1	31.1	32.8	
6 LD16-4047	33.1	33.8	35.8	
7 LD16-6787	35.2	34.6	35.2	
8 LD16-6886	33.0	31.9	32.8	
9 LD16-6888	32.9	32.2	33.0	
10 LD16-6893	32.2	32.0	33.3	
11 LD16-7126	33.7	31.5	31.9	
12 LD16-7622	32.3	31.8	33.8	
13 LD16-7637	34.0	32.8	35.0	
14 LD16-7669	33.1	34.0	34.4	
15 SA16-1961	34.6	35.6	36.2	
16 SA16-2194	32.7	31.6	34.0	
17 SA16-10349	36.2	36.5	38.2	
18 SA16-12014	35.7	33.8	35.5	
19 SA16-12491	33.2	33.2	34.7	
20 SA16-12880	33.3	35.0	35.0	

2019 SCN PRELIMINARY III

Oil (%)

	Arthur	Urbana	Bellwood	Manhattan
	IL	IL	NE	KS
SCN HG Type	2.5.7	2.5.7	2.5.7	NI
Strain				
1 LD11-2170 (SCN)	18.3	18.9	17.9	
2 IA3048 (SCN)	18.3	18.5	17.8	
3 LD07-3395bf (SCN)	19.3	19.3	19.1	
4 U14-910097 (SCN)	19.3	20.0	18.0	
5 LD16-3374	19.1	19.2	17.5	
6 LD16-4047	18.4	17.8	16.5	
7 LD16-6787	16.9	17.8	16.7	
8 LD16-6886	19.0	19.6	18.1	
9 LD16-6888	18.3	19.2	18.3	
10 LD16-6893	18.3	19.5	18.6	
11 LD16-7126	17.7	19.3	19.3	
12 LD16-7622	18.8	19.3	16.9	
13 LD16-7637	18.2	19.5	17.1	
14 LD16-7669	18.5	18.3	17.3	
15 SA16-1961	17.5	17.6	16.8	
16 SA16-2194	17.2	17.9	16.5	
17 SA16-10349	17.0	17.5	16.9	
18 SA16-12014	16.9	17.8	16.5	
19 SA16-12491	17.6	17.8	16.6	
20 SA16-12880	17.9	18.1	16.9	