

2015 SCN PRELIM TEST III

Strain	FPhm	Parentage	Gen. Comp.	SCN res source	Traits
1 IA3023	WLTbl	Dairyland DSR-365 x Pioneer P9381	F5	None	
2 IA3024	PGIbl	A97-553017 x Pioneer YB33A99	F5	None	1% linolenic
3 IA3048	WGy	Dairyland 99540 x IA2068	F4	PI 88788	
4 LD07-3395bf	WGbf	LD07-3395 RESELECTION	F5	PI 88788,437654	
5 AR12-327069	PGIbl	AR07-276077 x Syngenta 03JR101916	F4	PI 88788	
6 AR13-231042	PLTbl	AR03-161009 x Syngenta 03JR321088	F5	PI 507354,88788	
7 AR13-331023	P+Wt+Gbl/bf/bl	AR03-161009 x AR06-365076	F5	PI 507354,88788	
8 AR14-347003	PLTbl	AR07-176119 x (A95-684043 x PI 404166)	F3	PI 404166,90763	
9 AR14-347012	PLTbl	AR07-176119 x (A95-684043 x PI 404166)	F3	PI 404166,90763	
10 AR14-347021	P+Wbf	AR07-176090 x (A95-684043 x Ina)	F3	PI 88788,437654,90763	
11 AR14-347022	PLTbl	AR07-176090 x (A95-684043 x Ina)	F3	PI 88788,437654,90763	
12 AR14-347048	PLTbl	(PI 90763 x AR1) x AR07-176119	F3	PI 90763,88788	
13 LD12-1843	WTbl	LD04-11056W x Shillinger 432.TCS	F5	PI 88788	
14 LD12-2203	PLtLbl	CL04-13234 x LD00-3309	F5	PI 88788	
15 LD12-2625	PLTbl	LD06-7596 x LD04-13265	F5	PI 88788	
16 LD12-3596	WTbl	LG04-5372 x Syngenta 05BR006009	F5	PI 88788	
17 LD12-3903	PT+Ltbl	LD06-7620 x Syngenta 05BR006009	F5	PI 88788	
18 LD12-5953a	PGbf	Syngenta 04BR307588 x LD09-15077	F5	PI 88788	Rag 2
19 LD12-8534	WLTbl	LD04-11056W x LD06-7620	F5	PI 88788	
20 LD12-12717a	PGbf	LD08-12446a x LD05-30588a	F5	PI 88788	Rag1+2
21 LD12-12730a	PGbf	LD08-12446a x LD05-30588a	F5	PI 88788	Rag1+2
22 LD12-12734a	PGbf	LD08-12446a x LD05-30588a	F5	PI 88788	Rag1+2

Entry	IL SCN screening				ISU IDC	ISU SDS
	HG 0		HG 2.5.7		Ames	Glenwood
	Fl (Lee 74)	rating	Fl (Lee 74)	rating	score	DX
1 IA3023	66	NR	73	NR	2.1	15
2 IA3024	89	NR	71	NR	1.9	41
3 IA3048	2	HR	19	R	2.0	5
4 LD07-3395bf	1	HR	1	HR	2.1	4
5 AR12-327069	7	HR	29	MR	2.1	12
6 AR13-231042	14	R	24	R	2.5	8
7 AR13-331023	5	HR	7	HR	2.3	9
8 AR14-347003	6	HR	11	R	2.6	4
9 AR14-347012	7	HR	17	R	2.4	6
10 AR14-347021	2	HR	23	R	1.9	7
11 AR14-347022	5	HR	18	R	1.5	8
12 AR14-347048	24	R	26	MR	2.0	8
13 LD12-1843	11	R	22	R	2.1	4
14 LD12-2203	7	HR	13	R	1.9	6
15 LD12-2625	5	HR	19	R	1.8	6
16 LD12-3596	81	NR	55	LR	1.8	7
17 LD12-3903	3	HR	12	R	1.4	6
18 LD12-5953a	30	MR	21	R	1.6	4
19 LD12-8534	14	R	22	R	2.7	9
20 LD12-12717a	5	HR	10	R	2.0	8
21 LD12-12730a	4	HR	13	R	1.6	8
22 LD12-12734a	4	HR	11	R	1.5	10

A11 (res) 1.4
 IA3049 (sus) 2.5

2015 SCN PRELIM TEST III

Summary

Entry	Locations	Yield						Maturity date	Lodging score	Height in.	Seed			
		All		Infested		Non-infested					quality	weight	protein	oil
		bu/a	rank	bu/a	rank	bu/a	rank				score	g/100	@ 13%	@ 13%
1	IA3023	57.7	16	57.7	16	0	5	6	6	6	6	5	5	
2	IA3024	55.3	19	55.3	19		9/17	2.0	37	1.8	14.9	33.4	19.7	
3	IA3048	65.5	5	65.5	5		0	1.8	37	2.2	15.9	34.1	19.8	
4	LD07-3395bf	68.7	1	68.7	1		2	2.2	39	2.0	14.5	34.1	19.4	
5	AR12-327069	65.0	8	65.0	8		5	1.9	36	1.7	15.2	32.7	19.8	
6	AR13-231042	64.3	10	64.3	10		-3	2.2	36	1.7	13.3	35.1	19.3	
7	AR13-331023	59.8	15	59.8	15		-2	2.3	37	1.7	14.3	35.5	19.1	
8	AR14-347003	42.4	22	42.4	22		3	3.3	45	2.2	14.3	34.4	19.5	
9	AR14-347012	50.2	21	50.2	21		-3	2.4	36	2.2	13.4	34.9	19.3	
10	AR14-347021	55.5	18	55.5	18		1	2.7	45	2.2	13.2	36.5	18.3	
11	AR14-347022	56.2	17	56.2	17		-3	2.6	35	1.8	14.8	35.4	19.0	
12	AR14-347048	52.0	20	52.0	20		-4	2.6	39	1.7	15.3	35.5	19.1	
13	LD12-1843	65.6	4	65.6	4		2	2.8	38	2.3	14.0	33.2	20.3	
14	LD12-2203	65.4	7	65.4	7		4	1.8	40	2.0	16.3	36.0	19.4	
15	LD12-2625	65.5	5	65.5	5		1	1.7	37	1.7	14.3	34.5	18.8	
16	LD12-3596	62.2	12	62.2	12		6	2.5	38	1.5	13.8	32.6	20.3	
17	LD12-3903	68.2	2	68.2	2		3	1.9	42	2.0	14.3	33.9	20.1	
18	LD12-5953a	62.9	11	62.9	11		3	1.7	36	2.0	15.4	33.7	19.5	
19	LD12-8534	66.7	3	66.7	3		1	1.8	36	2.0	14.9	34.0	20.0	
20	LD12-12717a	64.9	9	64.9	9		4	2.2	42	2.0	14.4	34.0	19.5	
21	LD12-12730a	61.5	14	61.5	14		2	2.0	39	2.0	14.6	32.3	20.0	
22	LD12-12734a	62.0	13	62.0	13		1	1.7	37	2.0	14.7	34.7	19.5	
	Mean	60.8		60.8			1	1.8	38	1.8	14.7	33.3	20.0	
	LSD(.05)	3.8		3.8			18.0	2.2	38.3	1.9	14.6	34.3	19.5	
	C.V. %	8.3		8.3			2.2	0.4	1.7					
	Replications	14		14			13.5	21.5	5.6					

Yield (bu/a)

SCN HG Type	Glenwood	Muscatine	Arthur	Urbana	Manhattan	Columbus	Plattsmouth	
	IA	IA	IL	IL	KS	NE	NE	
	2.5.7	2.5.7	Inf	2.5.7	Inf	2.5.7	Inf	
Strain								
1	IA3023	53.3	46.1	84.4	58.2	48.9	42.9	70.2
2	IA3024	39.5	39.2	78.7	59.0	48.7	50.8	70.9
3	IA3048	58.9	71.0	82.0	67.8	46.4	61.0	71.1
4	LD07-3395bf	61.8	80.4	82.1	70.3	51.5	57.1	78.0
5	AR12-327069	63.5	64.5	77.9	65.8	47.1	55.7	80.5
6	AR13-231042	58.9	68.2	73.3	59.7	50.9	58.6	80.7
7	AR13-331023	54.5	60.7	68.6	68.5	43.9	53.7	68.5
8	AR14-347003	40.2	46.0	56.1	38.9	27.6	35.4	52.0
9	AR14-347012	51.0	59.2	60.7	51.6	36.7	46.9	45.7
10	AR14-347021	56.9	61.6	71.0	53.2	38.3	47.3	60.1
11	AR14-347022	57.7	66.2	70.7	54.5	44.0	43.6	58.0
12	AR14-347048	54.2	62.9	71.1	51.7	37.6	32.8	53.4
13	LD12-1843	60.2	70.2	82.3	73.5	47.5	49.2	76.0
14	LD12-2203	60.4	67.3	84.8	67.3	47.5	52.1	78.6
15	LD12-2625	66.9	67.8	87.0	69.4	41.7	50.3	75.4
16	LD12-3596	54.3	57.4	86.1	68.5	44.5	49.5	75.0
17	LD12-3903	64.9	77.7	85.3	68.6	47.5	55.5	78.1
18	LD12-5953a	60.4	56.8	79.9	57.8	51.8	51.5	83.2
19	LD12-8534	58.7	66.6	83.6	73.1	51.1	54.4	79.6
20	LD12-12717a	58.2	71.2	84.7	68.8	45.1	53.9	72.6
21	LD12-12730a	60.4	68.8	79.0	53.1	47.9	46.8	74.4
22	LD12-12734a	54.4	69.5	79.9	60.1	50.7	49.7	69.7
	Average	55.9	62.1	75.4	60.6	43.9	49.2	67.9
	LSD(2-sided,.05)	10.5	7.6	9.1	5.7	7.9	9.4	15.1
	C.V. %	8.9	5.7	5.7	4.5	8.4	9.0	10.3
	Replications	2	2	2	2	2	2	2
	Row spacing (in.)	30	30	30	30	30	30	30

2015 SCN PRELIM TEST III

Yield (rank)

Strain	Glenwood	Muscatine	Arthur	Urbana	Manhattan	Columbus	Plattsmouth
	IA 2.5.7	IA 2.5.7	IL Inf	IL 2.5.7	KS Inf	NE 2.5.7	NE Inf
1 IA3023	19	20	6	15	6	20	15
2 IA3024	22	22	14	14	7	11	14
3 IA3048	9	4	10	9	13	1	13
4 LD07-3395bf	4	1	9	3	2	3	7
5 AR12-327069	3	13	15	11	12	4	3
6 AR13-231042	9	8	16	13	4	2	2
7 AR13-331023	15	16	20	7	17	8	17
8 AR14-347003	21	21	22	22	22	21	21
9 AR14-347012	20	17	21	21	21	17	22
10 AR14-347021	14	15	18	18	19	16	18
11 AR14-347022	13	12	19	17	16	19	19
12 AR14-347048	18	14	17	20	20	22	20
13 LD12-1843	8	5	8	1	9	15	8
14 LD12-2203	5	10	4	10	9	9	5
15 LD12-2625	1	9	1	4	18	12	9
16 LD12-3596	17	18	2	8	15	14	10
17 LD12-3903	2	2	3	6	9	5	6
18 LD12-5953a	5	19	11	16	1	10	1
19 LD12-8534	11	11	7	2	3	6	4
20 LD12-12717a	12	3	5	5	14	7	12
21 LD12-12730a	5	7	13	19	8	18	11
22 LD12-12734a	16	6	11	12	5	13	16

Maturity

Strain	Glenwood	Muscatine	Arthur	Urbana	Manhattan	Columbus	Plattsmouth
	IA 2.5.7	IA 2.5.7	IL Inf	IL 2.5.7	KS Inf	NE 2.5.7	NE Inf
1 IA3023		9/15	9/08	9/13	9/17		10/02
2 IA3024		4	1	0	-3		-5
3 IA3048		7	1	3	1		-2
4 LD07-3395bf		4	7	8	3		3
5 AR12-327069		-5	-3	-3	-2		-3
6 AR13-231042		3	-4	-6	-1		-4
7 AR13-331023		6	4	3	1		1
8 AR14-347003		5	-2	-7	-1		-9
9 AR14-347012		6	2	-1	-1		-3
10 AR14-347021		1	-5	-5	-3		-4
11 AR14-347022		-1	-4	-6	-2		-8
12 AR14-347048		3	4	2	1		-1
13 LD12-1843		7	7	6	1		1
14 LD12-2203		2	3	1	-1		-3
15 LD12-2625		13	10	7	-1		2
16 LD12-3596		9	4	1	-1		-1
17 LD12-3903		6	6	5	1		0
18 LD12-5953a		5	2	1	-3		-1
19 LD12-8534		5	7	5	3		3
20 LD12-12717a		8	2	3	-1		-1
21 LD12-12730a		6	2	2	-2		-2
22 LD12-12734a		6	2	1	-2		-2
Planted	5/28	5/12	5/05	5/08	6/02	5/22	6/08

2015 SCN PRELIM TEST III

Lodging (score)

Strain	Glenwood	Muscatine	Arthur	Urbana	Manhattan	Columbus	Plattsmouth
	IA	IA	IL	IL	KS	NE	NE
SCN HG Type	2.5.7	2.5.7	Inf	2.5.7	Inf	2.5.7	Inf
1 IA3023	2.8	2.0	2.5	1.0	1.5		2.3
2 IA3024	2.8	1.8	2.0	1.0	1.5		2.0
3 IA3048	2.8	2.0	2.3	1.0	2.5		2.5
4 LD07-3395bf	2.3	2.0	1.5	1.0	1.5		3.0
5 AR12-327069	3.0	2.3	1.8	1.0	3.0		2.0
6 AR13-231042	3.3	2.0	1.8	1.0	3.0		3.0
7 AR13-331023	4.0	2.5	3.3	2.0	4.0		3.8
8 AR14-347003	3.3	2.0	2.8	1.0	2.0		3.3
9 AR14-347012	3.3	2.5	3.5	1.0	2.5		3.3
10 AR14-347021	3.5	2.0	2.5	1.0	2.5		4.0
11 AR14-347022	3.5	2.3	2.8	1.0	2.5		3.5
12 AR14-347048	3.5	2.5	3.0	1.0	3.0		3.5
13 LD12-1843	2.5	2.0	2.3	1.0	1.0		2.0
14 LD12-2203	2.3	2.0	1.3	1.0	1.0		2.5
15 LD12-2625	3.3	2.0	3.5	1.0	2.5		2.8
16 LD12-3596	2.5	2.0	2.5	1.0	1.5		2.0
17 LD12-3903	2.5	1.5	1.8	1.0	1.0		2.5
18 LD12-5953a	2.5	2.0	2.0	1.0	1.0		2.0
19 LD12-8534	4.0	1.8	2.3	1.0	1.5		2.5
20 LD12-12717a	3.8	1.8	1.8	1.0	1.5		2.5
21 LD12-12730a	3.0	1.8	1.3	1.0	1.0		2.0
22 LD12-12734a	2.8	1.5	1.3	1.0	1.0		3.0

Height (inches)

Strain	Glenwood	Muscatine	Arthur	Urbana	Manhattan	Columbus	Plattsmouth
	IA	IA	IL	IL	KS	NE	NE
SCN HG Type	2.5.7	2.5.7	Inf	2.5.7	Inf	2.5.7	Inf
1 IA3023	44	29	39	29	37		42
2 IA3024	44	28	40	31	39		42
3 IA3048	43	33	43	33	38		43
4 LD07-3395bf	40	34	40	31	35		36
5 AR12-327069	40	30	38	31	36		40
6 AR13-231042	42	31	42	33	38		36
7 AR13-331023	54	41	45	40	45		48
8 AR14-347003	44	34	38	26	36		40
9 AR14-347012	53	43	47	37	44		46
10 AR14-347021	40	31	39	29	33		38
11 AR14-347022	46	36	42	32	36		39
12 AR14-347048	44	38	41	29	36		42
13 LD12-1843	41	37	43	36	40		43
14 LD12-2203	44	32	42	29	34		43
15 LD12-2625	44	34	40	28	41		42
16 LD12-3596	47	35	46	35	42		45
17 LD12-3903	41	33	41	30	32		38
18 LD12-5953a	36	32	38	29	38		42
19 LD12-8534	46	36	46	35	40		47
20 LD12-12717a	44	37	42	32	37		41
21 LD12-12730a	46	34	41	28	35		42
22 LD12-12734a	43	38	41	32	37		40

2015 SCN PRELIM TEST III

Seed Quality (score)

Strain	SCN HG Type	Glenwood	Muscatine	Arthur	Urbana	Manhattan	Columbus	Plattsmouth
		IA 2.5.7	IA 2.5.7	IL Inf	IL 2.5.7	KS Inf	NE 2.5.7	NE Inf
1 IA3023			2.0	2.0	2.0	2.0	1.0	2.0
2 IA3024			3.0	2.0	2.0	2.0	2.0	2.0
3 IA3048			2.0	1.0	2.0	3.0	2.0	2.0
4 LD07-3395bf			2.0	1.0	2.0	2.0	2.0	1.0
5 AR12-327069			2.0	1.0	1.0	3.0	1.0	2.0
6 AR13-231042			2.0	1.0	1.0	2.0	2.0	2.0
7 AR13-331023			2.0	2.0	2.0	3.0	2.0	2.0
8 AR14-347003			3.0	2.0	1.0	3.0	2.0	2.0
9 AR14-347012			2.0	2.0	2.0	3.0	2.0	2.0
10 AR14-347021			2.0	1.0	1.0	3.0	2.0	2.0
11 AR14-347022			2.0	1.0	1.0	3.0	1.0	2.0
12 AR14-347048			2.0	2.0	2.0	3.0	2.0	3.0
13 LD12-1843			1.0	3.0	2.0	2.0	2.0	2.0
14 LD12-2203			2.0	1.0	1.0	2.0	2.0	2.0
15 LD12-2625			1.0	1.0	1.0	3.0	1.0	2.0
16 LD12-3596			2.0	2.0	2.0	2.0	2.0	2.0
17 LD12-3903			2.0	1.0	2.0	3.0	2.0	2.0
18 LD12-5953a			2.0	2.0	2.0	2.0	2.0	2.0
19 LD12-8534			2.0	1.0	2.0	3.0	2.0	2.0
20 LD12-12717a			2.0	2.0	2.0	2.0	2.0	2.0
21 LD12-12730a			2.0	2.0	2.0	2.0	2.0	2.0
22 LD12-12734a			2.0	2.0	2.0	2.0	2.0	1.0

Seed Weight (g/100)

Strain	SCN HG Type	Glenwood	Muscatine	Arthur	Urbana	Manhattan	Columbus	Plattsmouth
		IA 2.5.7	IA 2.5.7	IL Inf	IL 2.5.7	KS Inf	NE 2.5.7	NE Inf
1 IA3023			13.4	18.3	15.0	12.5	12.0	18.0
2 IA3024			14.3	17.9	16.5	12.8	15.0	19.0
3 IA3048			15.4	16.6	14.7	11.3	13.0	16.0
4 LD07-3395bf			15.1	15.8	16.2	11.9	14.0	18.0
5 AR12-327069			13.0	15.6	12.6	10.5	12.0	16.0
6 AR13-231042			14.3	15.7	14.5	12.1	13.0	16.0
7 AR13-331023			13.8	16.0	16.0	11.1	13.0	16.0
8 AR14-347003			15.1	14.8	13.4	11.2	12.0	14.0
9 AR14-347012			14.3	14.6	13.8	11.5	10.0	15.0
10 AR14-347021			14.9	17.5	14.7	12.8	12.0	17.0
11 AR14-347022			15.7	17.5	14.8	12.5	14.0	17.0
12 AR14-347048			14.1	16.0	14.5	11.6	13.0	15.0
13 LD12-1843			16.6	17.8	17.6	13.7	14.0	18.0
14 LD12-2203			14.0	15.2	15.1	11.4	13.0	17.0
15 LD12-2625			13.6	16.0	13.4	10.5	13.0	16.0
16 LD12-3596			13.8	16.8	15.7	10.6	12.0	17.0
17 LD12-3903			16.6	17.5	16.6	11.6	14.0	16.0
18 LD12-5953a			15.2	16.4	14.5	12.4	14.0	17.0
19 LD12-8534			14.1	16.2	14.8	12.3	13.0	16.0
20 LD12-12717a			14.2	16.3	15.7	12.4	13.0	16.0
21 LD12-12730a			14.2	16.3	14.2	12.4	14.0	17.0
22 LD12-12734a			15.0	17.1	15.3	11.9	13.0	16.0

2015 SCN PRELIM TEST III

Protein (%)

Strain	SCN HG Type	Glenwood	Muscatine	Arthur	Urbana	Manhattan	Columbus	Plattsmouth
		IA	IA	IL	IL	KS	NE	NE
		2.5.7	2.5.7	Inf	2.5.7	Inf	2.5.7	Inf
1 IA3023			32.0	34.0	32.4	34.6		34.1
2 IA3024			33.7	34.1	33.4	35.1		34.1
3 IA3048			34.2	33.6	33.6	36.5		32.6
4 LD07-3395bf			32.6	31.8	31.3	34.4		33.3
5 AR12-327069			36.1	34.4	33.8	36.4		34.8
6 AR13-231042			35.6	35.3	34.2	36.3		36.0
7 AR13-331023			34.3	34.4	34.0	35.9		33.5
8 AR14-347003			35.9	34.5	33.6	36.4		34.0
9 AR14-347012			36.1	36.4	35.2	37.7		37.2
10 AR14-347021			36.8	34.6	33.5	36.1		36.0
11 AR14-347022			36.1	34.8	34.3	37.1		35.5
12 AR14-347048			34.3	31.3	31.3	36.1		32.9
13 LD12-1843			35.9	36.0	34.9	36.9		36.1
14 LD12-2203			34.7	33.7	33.8	36.6		33.9
15 LD12-2625			32.3	33.3	30.9	34.5		32.1
16 LD12-3596			33.2	33.6	31.6	36.0		34.9
17 LD12-3903			33.5	32.0	34.6	34.6		33.6
18 LD12-5953a			34.2	34.2	31.7	35.1		34.6
19 LD12-8534			33.9	32.9	33.1	35.5		34.6
20 LD12-12717a			32.2	31.3	29.8	34.6		33.6
21 LD12-12730a			34.6	33.2	33.8	36.4		35.4
22 LD12-12734a			34.1	32.6	31.8	34.7		33.3

Oil (%)

Strain	SCN HG Type	Glenwood	Muscatine	Arthur	Urbana	Manhattan	Columbus	Plattsmouth
		IA	IA	IL	IL	KS	NE	NE
		2.5.7	2.5.7	Inf	2.5.7	Inf	2.5.7	Inf
1 IA3023			20.5	19.2	20.9	19.0		18.7
2 IA3024			19.9	19.8	20.4	18.9		19.8
3 IA3048			19.7	19.6	20.1	17.8		19.7
4 LD07-3395bf			20.3	20.3	20.6	19.1		18.5
5 AR12-327069			19.5	19.8	19.9	18.5		18.8
6 AR13-231042			19.0	19.3	20.4	18.4		18.7
7 AR13-331023			20.4	19.7	20.1	18.2		19.3
8 AR14-347003			19.2	19.8	20.3	18.0		19.1
9 AR14-347012			18.6	18.9	18.7	17.8		17.3
10 AR14-347021			19.1	19.4	19.6	18.1		18.6
11 AR14-347022			19.4	19.8	19.4	17.8		19.0
12 AR14-347048			20.0	21.1	21.3	19.0		20.0
13 LD12-1843			19.8	19.6	20.0	18.5		19.0
14 LD12-2203			19.4	19.3	18.8	17.5		19.0
15 LD12-2625			21.1	20.7	21.3	18.5		19.8
16 LD12-3596			21.4	20.2	20.9	18.3		19.5
17 LD12-3903			20.4	20.4	19.6	18.7		18.5
18 LD12-5953a			21.2	19.8	20.7	19.4		18.9
19 LD12-8534			19.7	20.5	19.9	18.4		18.8
20 LD12-12717a			20.4	20.0	21.5	19.2		19.0
21 LD12-12730a			19.8	20.5	19.1	18.9		19.1
22 LD12-12734a			20.1	20.2	21.2	19.4		19.2