

2016 SCN PRELIM TEST III

Strain	FPhIm	Parentage	Gen. Comp.	SCN res source	Traits
1 IA3023	WLTbl	Dairyland DSR-365 x Pioneer P9381	F5	None	
2 IA3048	WGy	Dairyland 99540 x IA2068	F4	PI 88788	
3 LD07-3395bf	WGbF	LD07-3395 RESELECTION	F5	PI 88788,437654	
4 U11-920017	PTbr	HS5-3417 x LD02-4485	F6	None	Rps res.
5 AR15-258093	PT+Gbr/bl/y/bf	ND07-4635 x AR16SCN	F3	PI 88788	
6 AR15-358011	PTbl	AR10-305198 x RxEF59-70	F3	PI 428489B	
7 AR15-358029	PTbl	AR16SCN x Var 75881	F3	PI 88788	
8 AR15-358030	PGibl	JTN-5203 x IAR1902 SCN	F3	Peking	
9 AR15-358063	PTgr	AR10-305198 x ND07-4635	F3	PI 438489B	
10 LD13-843	PLtbr	CL05-32415 x 75358-74	F5	PI 88788	
11 LD13-1750	PLtbl	LD07-3395 x LD06-7596	F5	PI 88788,437654	
12 LD13-2000	PTbl	WN0800105 x LD06-7862	F5	PI 88788	Rag 2
13 LD13-2008	WLTbl	WN0800105 x LD06-7862	F5	PI 88788	
14 LD13-2594	WLTbl	SJ0800020 x CL06-121119	F5	PI 88788	
15 LD13-2850	P+WLTbr	WN0800105 x LD07-2192	F5	PI 88788	
16 LD13-3483	WGbF	LD07-3395 x CL06-121119	F5	PI 88788,437654	
17 LD13-4542a	PLtbl/br	LD08-12430a x NE0900094	F5	PI 88788	Rag 2
18 LD13-5290a	PGibl	LD09-30224 x LD08-12438a	F5	PI 88788	Rag 1+2
19 LD13-5775a	WTbr	AR09-291001 x LD08-4767a	F5	PI 88788,437654	Rag 1
20 LD13-6152	PGibl	LD06-7984 x NE0900094	F5	PI 88788,437654	
21 LD13-6628	P+WLTbl	LD07-3395 x NE0900094	F5	PI 88788,437654	
22 LD13-6813	PLtbl	LD04-13265 x 75358-74	F5	PI 88788	

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Entry	IL SCN screening				ISU IDC	ISU SDS
	HG 0		HG 2.5.7		Bruner	Glenwood
	FI	rating	FI	rating	score	DX
1 IA3023	66	NR	64	NR	2.8	
2 IA3048	2	HR	69	NR	3.0	
3 LD07-3395bf	1	HR	32	MR	4.0	
4 U11-920017	74	NR	49	LR	1.5	
5 AR15-258093	20	R	72	NR	2.8	
6 AR15-358011	6	HR	61	NR	3.0	
7 AR15-358029	20	R	56	LR	3.3	
8 AR15-358030	0	HR	4	HR	2.3	
9 AR15-358063	8	HR	53	LR	2.3	
10 LD13-843	13	R	57	LR	3.0	
11 LD13-1750	35	MR	64	NR	4.3	
12 LD13-2000	12	R	77	NR	4.0	
13 LD13-2008	11	R	72	NR	2.5	
14 LD13-2594	24	R	79	NR	2.3	
15 LD13-2850	40	**	64	NR	3.3	
16 LD13-3483	3	**	31	**	3.3	
17 LD13-4542a	9	HR	70	NR	2.5	
18 LD13-5290a	5	HR	64	NR	1.5	
19 LD13-5775a	6	HR	38	MR	2.0	
20 LD13-6152	68	NR	71	NR	3.5	
21 LD13-6628	63	NR	67	NR	2.3	
22 LD13-6813	56	LR	60	NR	3.3	

** rep data too variable to rate

Ave. 2.4

LSD 2.2

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2016 Summary

Entry	Yield								Seed					
	All		Infested		Non-infested		Maturity date	Lodging score	Height in.	quality score	weight g/100	protein @13%	oil @13%	
	bu/a	rank	bu/a	rank	bu/a	rank								
	Locations	8		8		0		5	7	7	8	8	4	4
1 IA3023		60.2	20	60.2	20			9/22	2.4	38	1.7	14.2	32.6	19.5
2 IA3048		68.6	7	68.6	7			0	2.9	40	1.8	13.9	34.0	19.1
3 LD07-3395bf		72.7	1	72.7	1			3	2.9	37	2.1	15.1	31.6	20.2
4 U11-920017		62.2	18	62.2	18			-3	2.3	36	2.2	15.9	31.7	20.5
5 AR15-258093		63.3	17	63.3	17			-4	3.5	38	2.4	15.2	34.3	20.1
6 AR15-358011		58.2	22	58.2	22			0	3.3	40	1.9	14.4	36.7	18.0
7 AR15-358029		65.8	13	65.8	13			-2	3.1	36	2.1	15.4	35.7	19.8
8 AR15-358030		69.7	5	69.7	5			0	3.6	44	2.5	13.9	34.3	19.8
9 AR15-358063		58.5	21	58.5	21			2	3.3	43	2.2	16.1	33.9	18.6
10 LD13-843		64.7	15	64.7	15			1	2.8	43	2.1	15.6	32.1	19.5
11 LD13-1750		64.8	14	64.8	14			3	3.4	41	2.0	15.7	33.5	19.1
12 LD13-2000		68.5	8	68.5	8			1	2.3	36	2.0	16.3	34.7	18.1
13 LD13-2008		65.9	12	65.9	12			0	2.9	38	1.9	15.7	35.5	17.7
14 LD13-2594		68.3	9	68.3	9			5	2.4	42	2.1	15.5	35.1	18.1
15 LD13-2850		71.5	2	71.5	2			2	2.7	42	1.7	16.1	33.0	18.2
16 LD13-3483		69.8	4	69.8	4			2	2.9	36	2.3	14.6	33.8	18.2
17 LD13-4542a		66.1	11	66.1	11			-1	3.0	38	1.9	17.3	33.0	20.1
18 LD13-5290a		69.5	6	69.5	6			-3	1.8	38	1.8	13.7	32.7	19.6
19 LD13-5775a		70.0	3	70.0	3			1	2.8	45	1.8	13.7	33.3	19.4
20 LD13-6152		67.5	10	67.5	10			0	2.1	37	1.8	16.0	33.9	20.2
21 LD13-6628		63.9	16	63.9	16			-1	2.7	38	2.1	14.0	32.8	19.6
22 LD13-6813		60.8	19	60.8	19			2	2.9	42	2.0	16.1	34.2	19.3
Mean		65.9		65.9				22.7	2.8	39.6	2.0	15.2	33.7	19.2
LSD(.05)		3.9		3.9				2.4	0.4	1.6				
C.V. %		8.5		8.5				12.9	17.8	5.5				
Replications		16		16				12	14	14				

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Yield (rank)

Strain	Glenwood	Muscatine	Arthur	Urbana	Manhattan	Novelty	Auburn	Columbus
	IA	IA	IL	IL	KS	MO	NE	NE
	SCN HG Type 1.2.5.7	2.5.7	2.5.7	2.5.7	I	2.5.7	2.5.7	0
1 IA3023	16	17	11	19	18	20	1	22
2 IA3048	9	16	8	5	10	6	20	1
3 LD07-3395bf	7	12	1	1	1	9	11	2
4 U11-920017	12	19	5	21	19	10	4	21
5 AR15-258093	10	14	22	20	16	16	17	6
6 AR15-358011	17	22	20	22	22	18	15	13
7 AR15-358029	20	11	14	12	6	19	2	16
8 AR15-358030	3	6	13	11	17	1	5	17
9 AR15-358063	13	21	21	18	21	12	21	15
10 LD13-843	11	13	4	12	20	14	16	12
11 LD13-1750	18	7	18	16	5	5	22	14
12 LD13-2000	14	2	17	14	14	8	10	5
13 LD13-2008	21	9	6	8	13	17	18	5
14 LD13-2594	19	3	19	6	2	13	6	9
15 LD13-2850	5	8	12	3	7	4	3	7
16 LD13-3483	1	5	2	7	3	15	13	10
17 LD13-4542a	8	18	3	2	9	7	8	20
18 LD13-5290a	4	20	6	9	4	3	7	3
19 LD13-5775a	2	4	9	4	15	11	9	8
20 LD13-6152	6	15	16	10	8	2	14	18
21 LD13-6628	15	1	10	15	11	22	19	11
22 LD13-6813	22	10	15	17	12	21	12	19

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Maturity

	Glenwood IA SCN HG Type 1.2.5.7	Muscatine IA 2.5.7	Arthur IL 2.5.7	Urbana IL 2.5.7	Manhattan KS I	Novelty MO 2.5.7	Auburn NE 2.5.7	Columbus NE 0
Strain								
1 IA3023	9/24		9/23	9/18	9/27	9/21		9/21
2 IA3048	-1		-2	1	-2	3		2
3 LD07-3395bf	2		1	5	2	3		6
4 U11-920017	1		-6	-5	-8	-1		-2
5 AR15-258093	2		-8	-6	-9	-2		-4
6 AR15-358011	3		-3	1	-5	0		3
7 AR15-358029	2		-4	-2	-5	-2		0
8 AR15-358030	2		-3	3	-5	3		1
9 AR15-358063	2		1	5	-3	3		4
10 LD13-843	-2		0	5	-4	2		4
11 LD13-1750	3		3	7	-1	3		2
12 LD13-2000	5		-3	4	-5	1		6
13 LD13-2008	3		-4	1	-4	1		4
14 LD13-2594	-1		4	9	5	3		10
15 LD13-2850	3		1	4	-3	3		7
16 LD13-3483	6		1	3	-1	0		5
17 LD13-4542a	-1		1	0	-5	2		0
18 LD13-5290a	1		-8	-1	-7	-2		0
19 LD13-5775a	4		1	2	-3	1		-1
20 LD13-6152	13		-4	-4	-5	-1		-1
21 LD13-6628	1		-4	0	-1	-1		0
22 LD13-6813	-2		2	5	3	2		5
Planted	5/18	4/25	5/18	5/21	6/2	5/24	6/6	5/19

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Lodging (score)

	Glenwood IA	Muscatine IA	Arthur IL	Urbana IL	Manhattan KS	Novelty MO	Auburn NE	Columbus NE
SCN HG Type	1.2.5.7	2.5.7	2.5.7	2.5.7	I	2.5.7	2.5.7	0
Strain								
1 IA3023	2.5	2.5	3.3	2.3	2.5	1.8		2.0
2 IA3048	2.8	1.8	3.3	2.8	3.0	3.5		3.0
3 LD07-3395bf	3.0	2.0	3.3	2.8	3.0	4.5		2.0
4 U11-920017	3.8	2.3	2.0	2.0	2.5	2.8		1.0
5 AR15-258093	4.0	1.8	4.0	2.8	4.0	4.3		3.5
6 AR15-358011	3.8	3.3	4.0	2.8	3.0	4.0		2.5
7 AR15-358029	4.0	2.3	3.3	2.5	4.0	4.0		2.0
8 AR15-358030	3.8	2.8	4.0	3.5	4.0	4.3		3.0
9 AR15-358063	3.8	3.3	3.5	2.5	3.5	4.3		2.0
10 LD13-843	3.3	2.5	3.3	2.8	3.0	3.8		1.0
11 LD13-1750	4.0	2.5	3.8	3.5	3.5	4.3		2.5
12 LD13-2000	2.5	1.8	2.3	1.8	3.0	3.3		1.5
13 LD13-2008	3.3	2.0	2.8	2.3	3.5	4.3		2.0
14 LD13-2594	2.8	1.8	3.3	2.3	2.0	3.5		1.0
15 LD13-2850	2.5	2.3	3.5	2.8	3.5	3.0		1.5
16 LD13-3483	3.0	2.0	3.5	2.8	3.0	4.0		2.0
17 LD13-4542a	3.5	2.3	3.3	2.3	4.5	3.5		2.0
18 LD13-5290a	2.3	1.8	1.8	2.0	1.5	1.8		1.5
19 LD13-5775a	3.0	2.5	3.5	2.5	2.5	3.5		2.0
20 LD13-6152	2.5	1.3	2.0	2.5	2.0	3.5		1.0
21 LD13-6628	3.3	1.8	2.3	3.5	3.0	3.3		2.0
22 LD13-6813	3.3	2.8	3.3	2.8	2.5	3.5		2.0

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Height (inches)

	Glenwood IA	Muscatine IA	Arthur IL	Urbana IL	Manhattan KS	Novelty MO	Auburn NE	Columbus NE
SCN HG Type	1.2.5.7	2.5.7	2.5.7	2.5.7	I	2.5.7	2.5.7	0
Strain								
1 IA3023	47	22	40	42	43	41		33
2 IA3048	47	25	45	42	41	43		39
3 LD07-3395bf	44	24	40	38	42	37		34
4 U11-920017	43	19	39	39	41	38		32
5 AR15-258093	46	23	42	38	40	39		36
6 AR15-358011	50	19	45	46	40	47		38
7 AR15-358029	42	25	40	38	40	36		31
8 AR15-358030	53	30	45	50	49	44		39
9 AR15-358063	52	23	51	48	46	45		38
10 LD13-843	53	29	48	49	45	43		38
11 LD13-1750	49	26	44	46	44	41		41
12 LD13-2000	44	24	39	38	39	37		34
13 LD13-2008	46	25	41	39	43	40		35
14 LD13-2594	50	29	48	44	48	43		37
15 LD13-2850	51	22	48	45	46	44		38
16 LD13-3483	43	24	41	40	37	39		31
17 LD13-4542a	47	20	42	41	43	42		34
18 LD13-5290a	46	25	44	40	37	40		33
19 LD13-5775a	52	28	47	49	53	47		41
20 LD13-6152	45	25	42	41	42	39		28
21 LD13-6628	44	25	41	41	43	38		36
22 LD13-6813	51	29	45	47	48	42		36

2016 SCN PRELIM TEST III

Seed Quality (score)

SCN HG Type	Glenwood	Muscatine	Arthur	Urbana	Manhattan	Novelty	Auburn	Columbus
	IA 1.2.5.7	IA 2.5.7	IL 2.5.7	IL 2.5.7	KS I	MO 2.5.7	NE 2.5.7	NE 0
Strain								
1 IA3023	2.0	2.0	1.0	1.0	3.0	1.5	2.0	1.0
2 IA3048	1.0	1.0	2.0	2.0	3.0	1.5	2.0	2.0
3 LD07-3395bf	3.0	3.0	2.0	2.0	3.0	2.0	1.0	1.0
4 U11-920017	2.0	2.0	2.0	2.0	4.0	1.5	2.0	2.0
5 AR15-258093	3.0	3.0	3.0	2.0	3.0	1.5	2.0	2.0
6 AR15-358011	2.0	2.0	2.0	2.0	3.0	1.5	2.0	1.0
7 AR15-358029	3.0	3.0	2.0	2.0	3.0	1.5	1.0	1.0
8 AR15-358030	4.0	4.0	2.0	2.0	3.0	2.0	2.0	1.0
9 AR15-358063	2.0	2.0	2.0	2.0	4.0	1.5	2.0	2.0
10 LD13-843	2.0	2.0	2.0	2.0	3.0	1.5	2.0	2.0
11 LD13-1750	2.0	2.0	2.0	2.0	3.0	2.0	2.0	1.0
12 LD13-2000	2.0	2.0	3.0	2.0	3.0	2.3	1.0	1.0
13 LD13-2008	2.0	2.0	2.0	2.0	3.0	1.5	2.0	1.0
14 LD13-2594	3.0	3.0	2.0	2.0	2.0	1.8	2.0	1.0
15 LD13-2850	1.0	1.0	2.0	2.0	3.0	1.5	2.0	1.0
16 LD13-3483	3.0	3.0	2.0	2.0	3.0	2.0	2.0	1.0
17 LD13-4542a	2.0	2.0	2.0	2.0	3.0	1.5	2.0	1.0
18 LD13-5290a	2.0	2.0	2.0	2.0	3.0	1.5	1.0	1.0
19 LD13-5775a	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0
20 LD13-6152	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0
21 LD13-6628	3.0	3.0	2.0	2.0	2.0	1.5	2.0	1.0
22 LD13-6813	2.0	2.0	2.0	2.0	3.0	2.0	2.0	1.0

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Seed Weight (g/100)

SCN HG Type	Glenwood	Muscatine	Arthur	Urbana	Manhattan	Novelty	Auburn	Columbus
	IA 1.2.5.7	IA 2.5.7	IL 2.5.7	IL 2.5.7	KS I	MO 2.5.7	NE 2.5.7	NE 0
Strain								
1 IA3023	13.3	13.3	15.4	15.2	14.3	11.7	17.0	13.8
2 IA3048	13.0	13.0	14.8	15.9	11.2	15.2	13.9	13.9
3 LD07-3395bf	14.7	14.7	15.4	16.4	13.9	15.0	15.0	15.5
4 U11-920017	15.6	15.6	15.7	16.8	14.3	15.2	17.2	16.6
5 AR15-258093	15.3	15.3	16.4	15.5	13.0	14.6	15.7	15.4
6 AR15-358011	13.6	13.6	15.5	16.2	11.4	15.0	15.4	14.8
7 AR15-358029	14.3	14.3	17.2	16.8	13.1	14.9	16.4	16.4
8 AR15-358030	14.9	14.9	13.2	14.1	11.1	15.7	14.1	13.3
9 AR15-358063	16.4	16.4	16.7	17.2	12.9	16.8	17.1	15.5
10 LD13-843	15.7	15.7	16.6	16.3	13.0	15.7	16.5	15.3
11 LD13-1750	15.6	15.6	17.0	17.1	13.3	16.2	16.0	14.7
12 LD13-2000	15.3	15.3	17.4	18.3	14.0	16.1	17.9	16.4
13 LD13-2008	14.5	14.5	17.7	17.6	13.5	15.8	16.3	15.4
14 LD13-2594	14.8	14.8	17.9	18.0	12.2	14.3	16.7	15.4
15 LD13-2850	15.7	15.7	17.0	16.3	13.1	16.9	17.8	16.6
16 LD13-3483	14.7	14.7	16.2	16.2	11.8	13.4	15.1	14.6
17 LD13-4542a	15.9	15.9	18.5	19.2	14.5	19.0	18.9	16.3
18 LD13-5290a	13.0	13.0	15.0	14.8	11.9	14.0	14.4	13.3
19 LD13-5775a	13.6	13.6	14.6	15.4	11.4	13.5	14.8	12.6
20 LD13-6152	16.6	16.6	16.3	16.5	13.6	17.3	16.1	14.6
21 LD13-6628	14.5	14.5	15.2	15.2	13.5	12.3	14.8	12.0
22 LD13-6813	14.3	14.3	18.1	18.1	15.9	16.1	17.2	15.0

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Protein (%)

	Glenwood IA	Muscatine IA	Arthur IL	Urbana IL	Manhattan KS	Novelty MO	Auburn NE	Columbus NE
SCN HG Type	1.2.5.7	2.5.7	2.5.7	2.5.7	I	2.5.7	2.5.7	0
Strain								
1 IA3023	31.9					32.1	32.8	33.4
2 IA3048	34.4					34.1	33.3	34.1
3 LD07-3395bf	30.4					31.9	32.0	31.9
4 U11-920017	30.9					32.5	31.0	32.1
5 AR15-258093	34.4					35.3	33.3	34.1
6 AR15-358011	36.2					37.1	35.8	37.6
7 AR15-358029	36.4					35.5	34.6	36.1
8 AR15-358030	33.6					34.8	32.2	36.5
9 AR15-358063	34.4					34.3	33.2	33.9
10 LD13-843	32.0					33.5	30.3	32.6
11 LD13-1750	32.3					34.4	33.1	34.2
12 LD13-2000	34.4					35.0	34.7	34.6
13 LD13-2008	36.3					34.5	35.2	35.9
14 LD13-2594	35.9					35.2	34.0	35.4
15 LD13-2850	32.5					32.4	33.5	33.5
16 LD13-3483	33.2					33.8	33.3	34.9
17 LD13-4542a	33.7					32.3	31.5	34.3
18 LD13-5290a	32.0					33.1	32.2	33.5
19 LD13-5775a	32.0					33.7	33.6	34.0
20 LD13-6152	33.1					34.7	32.5	35.3
21 LD13-6628	32.8					33.9	31.2	33.3
22 LD13-6813	34.3					34.1	34.2	34.4

2016 SCN PRELIM TEST III

Oil (%)

	Glenwood IA	Muscatine IA	Arthur IL	Urbana IL	Manhattan KS	Novelty MO	Auburn NE	Columbus NE
SCN HG Type	1.2.5.7	2.5.7	2.5.7	2.5.7	I	2.5.7	2.5.7	0
Strain								
1 IA3023	17.8					20.5	19.1	20.6
2 IA3048	17.9					19.8	19.4	19.2
3 LD07-3395bf	18.9					21.1	19.9	21.0
4 U11-920017	19.5					21.3	20.5	20.5
5 AR15-258093	18.5					19.7	20.6	21.6
6 AR15-358011	15.9					19.2	18.6	18.1
7 AR15-358029	18.5					20.4	20.3	19.8
8 AR15-358030	18.6					20.3	20.7	19.5
9 AR15-358063	16.6					19.0	18.8	20.0
10 LD13-843	18.3					19.5	20.6	19.5
11 LD13-1750	17.9					20.1	18.9	19.8
12 LD13-2000	17.0					18.9	18.1	18.4
13 LD13-2008	15.5					19.4	18.0	18.0
14 LD13-2594	16.2					20.0	18.0	18.4
15 LD13-2850	17.7					18.2	18.2	18.8
16 LD13-3483	17.1					19.0	18.3	18.4
17 LD13-4542a	19.0					20.6	20.7	20.1
18 LD13-5290a	18.2					20.3	20.5	19.5
19 LD13-5775a	18.5					19.7	19.8	19.5
20 LD13-6152	19.7					21.1	20.3	19.8
21 LD13-6628	18.3					20.5	20.3	19.5
22 LD13-6813	17.9					20.3	19.9	19.1