

2014 SCN PRELIM TEST II

Strain	FPhm	Parentage	Gen. Comp.	SCN res source	Traits
1 IA2102	WGy	A04-545045 x AgriPro 98180-A01-06131	F4	None	F4 None
2 IA1022 (SCN)	PGy	Dairyland 98822 x A00-711024	F5	PI88788	F5 PI88788
3 IA3024	PLtbl	A97-553017 x Pioneer YB33A99	F5	None	F5 None
4 LD02- 4485	PGbf	M90-184111 x IA3010	F5	PI88788	F5 PI88788
5 AR13-231010	PGibl	AR07-175036 x AR05-150139	F5	PI 90763,88788	F5 PI 90763,88788
6 AR13-231013	PLtbl	AR05-250103 x PI 567354	F5	PI 567354,88788	F5 PI 567354,88788
7 E12007	PTbl	E00003 x U03-300134	F5	PI 88788	F5 PI 88788
8 E12023	PTbl	E05053 x U03-300134	F5	PI 88788	F5 PI 88788
9 E12061	PLtbl	U03-300134 x Skylla	F5	PI 88788	F5 PI 88788
10 E12076	WGy	LD01-7323 x U01-390489	F5	PI 88788	F5 PI 88788
11 E12377	PLtgr	E07048 x E08242	F4	PI 88788	F4 PI 88788
12 LD10-14323	PGy	LD01-7323(5) x (LD01-7323 x 98-2-3)	F5	PI88788	F5 PI88788
13 LD11-4787a	PGy	LD01-7323 x APXG05-12-1-13	F5	PI88788	F5 PI88788
14 LD11-6066	PGgr	IA1022 x Dairyland 99753-81	F5	PI88788	F5 PI88788
15 LD11-6087	PGibl	IA1022 x Dairyland 99753-81	F5	PI88788	F5 PI88788
16 LD11-6797	P+WGb/ibl	LD03-6566 x IA1022	F5	PI88788	F5 PI88788
17 M08-344021	WGbf	LD00-2187 X MN0308CN	F5	PI 88788	F5 PI 88788
18 M08-344109	WGy	LD00-2187 X MN0308CN	F5	PI 88788	F5 PI 88788
19 ORC 5811N	PTy	LD01-7323 x LG00-6925	F6	PI 88788	F6 PI 88788

Entry	IL SCN screening				ISU IDC	MN IDC
	HG 0		HG 2.5.7		Ames	Danvers
	Fl	rating	Fl	rating	score	score
1 IA2102	7	HR	42	LR	1.6	2.8
2 IA1022 (SCN)	5	HR	40	LR	2.2	3.2
3 IA3024	68	NR	88	NR	3.0	2.7
4 LD02- 4485	4	HR	19	R	3.0	2.3
5 AR13-231010	15	R	54	LR	2.3	2.4
6 AR13-231013	68	NR	104	NR	2.8	2.8
7 E12007	75	NR	80	NR	1.7	2.9
8 E12023	69	NR	99	NR	2.5	2.9
9 E12061	76	NR	83	NR	2.4	3.1
10 E12076	13	R	59	LR	2.8	3.3
11 E12377	51	LR	75	NR	3.5	3.4
12 LD10-14323	5	HR	28	MR	3.3	3.1
13 LD11-4787a	8	HR	57	LR	3.0	2.4
14 LD11-6066	11	R	54	LR	2.5	3.2
15 LD11-6087	71	NR	107	NR	2.5	3.2
16 LD11-6797	2	HR	11	R	2.0	3.6
17 M08-344021	7	R	42	LR	1.7	3.3
18 M08-344109	9	HR	28	MR	1.6	2.7
19 ORC 5811N	2	HR	24	R	2.4	3.4

** rep data too variable to rate
A11 (res) 2.3
IA3049 (sus) 2.7

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Summary

Entry	Yield								Maturity date	Lodging score	Height in.	Seed			
	All		Infested		Non-infested		quality score	weight g/100				protein @13%	oil @13%		
	bu/a	rank	bu/a	rank	bu/a	rank									
	Locations	7		6		1		5	5	5	5	5	6	6	
1 IA2102		64.3	2	62.8	4	73.9	1	9/20	2.3	32	2.6	16.3	34.4	17.6	
2 IA1022 (SCN)		59.4	14	60.5	9	52.4	19	-5	2.2	32	2.2	16.7	33.4	18.8	
3 IA3024		61.6	9	59.9	11	71.7	4	5	2.0	34	1.8	17.8	33.9	17.4	
4 LD02- 4485		66.7	1	65.8	1	72.1	3	2	2.1	34	2.4	15.9	31.9	17.9	
5 AR13-231010		62.7	4	61.9	7	67.5	8	2	2.1	33	2.0	17.5	33.2	17.5	
6 AR13-231013		59.1	15	58.3	14	64.1	10	-2	1.8	33	1.8	17.0	34.8	16.8	
7 E12007		62.2	6	60.4	10	73.2	2	4	2.0	37	2.2	15.1	34.5	17.4	
8 E12023		60.2	12	58.8	13	68.7	7	5	2.1	34	2.4	15.4	34.9	17.1	
9 E12061		53.8	19	50.9	19	71.4	5	1	1.6	31	1.6	16.3	33.5	17.7	
10 E12076		64.0	3	64.0	2	64.1	10	3	2.3	33	1.8	17.4	34.2	17.1	
11 E12377		60.1	13	58.3	14	71.1	6	1	2.2	34	2.0	16.8	33.6	17.7	
12 LD10-14323		62.5	5	63.1	3	58.6	14	-1	2.2	31	2.6	17.2	35.3	17.3	
13 LD11-4787a		61.7	8	62.1	6	59.8	13	-1	1.9	32	1.8	17.0	35.0	17.5	
14 LD11-6066		58.8	16	57.9	16	64.0	12	1	2.0	31	2.2	16.8	33.5	18.1	
15 LD11-6087		60.9	10	59.9	11	67.0	9	4	2.0	32	2.8	16.0	33.0	18.2	
16 LD11-6797		62.0	7	62.7	5	58.3	15	2	1.7	35	2.0	16.8	32.5	19.0	
17 M08-344021		57.5	17	57.7	17	56.4	17	1	1.6	33	2.6	15.8	32.7	18.5	
18 M08-344109		54.6	18	54.8	18	53.3	18	1	2.7	37	2.6	15.4	35.1	17.6	
19 ORC 5811N		60.5	11	60.9	8	57.9	16	-4	2.1	32	2.2	18.5	35.8	17.6	
Mean		60.7		60.0		64.5		1.0	2.0	33.0					
LSD(.05)		4.1		4.7		6.5		1.6	0.4	2.0					
C.V. %		9.1		9.7		4.8		9.8	20.0	6.7					

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Yield (bu/a)

SCN HG Type	Ames	Moorhead	Pontiac	Decatur	Fairfax	Lamberton	Plattsmouth	Urbana
	IA	IA	IL	MI	MN	MN	NE	IL
SCN HG Type	1,2,5,7	2,5,7	2,5,7	I	2,5,7	I	2,5,7	NI
Strain								
1 IA2102	64.2	65.7	79.8	43.6	48.4	54.0	63.8	73.9
2 IA1022 (SCN)	66.1	66.3	68.2	19.3	49.2	50.0	63.3	52.4
3 IA3024	52.5	65.8	79.3	18.0	52.2	52.6	57.1	71.7
4 LD02- 4485	63.2	69.7	79.5	49.0	49.0	59.0	74.3	72.1
5 AR13-231010	66.2	71.0	73.5	43.4	53.2	48.1	59.7	67.5
6 AR13-231013	54.1	64.7	77.1	42.8	42.8	51.3	59.9	64.1
7 E12007	50.6	63.4	77.8	48.4	43.7	59.4	67.0	73.2
8 E12023	45.2	66.0	76.6	26.1	44.0	51.2	69.7	68.7
9 E12061	50.7	47.5	65.9	30.4	40.7	48.6	51.8	71.4
10 E12076	62.4	75.3	73.4	35.1	45.7	53.7	73.8	64.1
11 E12377	51.4	59.7	71.8	48.5	41.2	47.5	78.3	71.1
12 LD10-14323	59.7	56.5	78.3	47.3	52.6	56.6	75.0	58.6
13 LD11-4787a	62.2	69.0	73.6	39.0	43.3	55.4	68.5	59.8
14 LD11-6066	58.4	50.4	75.1	24.2	46.1	52.2	65.3	64.0
15 LD11-6087	54.6	66.0	77.7	25.2	43.5	53.5	63.8	67.0
16 LD11-6797	66.4	58.0	80.5	33.0	49.6	47.4	74.0	58.3
17 M08-344021	51.1	69.2	66.1	45.0	46.3	55.1	58.5	56.4
18 M08-344109	59.7	56.6	66.0	41.8	48.2	51.8	46.8	53.3
19 ORC 5811N	58.4	73.8	73.4	29.1	49.5	53.5	57.0	57.9
Average	57.7	63.9	74.4	36.2	46.8	52.7	64.6	64.5
LSD(.05)	12.8	15.8	6.8	23.3	9.8	8.0	14.8	6.5
C.V. %	10.4	11.8	4.3	25.2*	10.2	7.4	9.3	4.8
Replications	2	2	2	2	2	2	2	2
Row spacing (in.)	30	30	30	30	30	30	30	30

Yield (rank)

SCN HG Type	Ames	Moorhead	Pontiac	Decatur	Fairfax	Lamberton	Plattsmouth	Urbana
	IA	IA	IL	MI	MN	MN	NE	IL
SCN HG Type	1,2,5,7	2,5,7	2,5,7	I	2,5,7	I	2,5,7	NI
Strain								
1 IA2102	18	11	2	6	8	6	10	1
2 IA1022 (SCN)	3	7	16	18	6	15	12	19
3 IA3024	13	10	4	19	3	10	16	4
4 LD02- 4485	4	4	3	1	7	2	3	3
5 AR13-231010	2	3	12	7	1	17	14	8
6 AR13-231013	12	12	8	8	17	13	13	10
7 E12007	19	13	6	3	14	1	8	2
8 E12023	17	9	9	15	13	14	6	7
9 E12061	16	19	19	13	19	16	18	5
10 E12076	5	1	13	11	12	7	5	10
11 E12377	14	14	15	2	18	18	1	6
12 LD10-14323	7	17	5	4	2	3	2	14
13 LD11-4787a	6	5	11	10	16	4	7	13
14 LD11-6066	10	18	10	17	11	11	9	12
15 LD11-6087	11	8	7	16	15	8	10	9
16 LD11-6797	1	15	1	12	4	19	4	15
17 M08-344021	15	6	17	5	10	5	15	17
18 M08-344109	8	16	18	9	9	12	19	18
19 ORC 5811N	9	2	13	14	5	8	17	16

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Maturity

SCN HG Type	Ames	Moorhead	Pontiac	Decatur	Fairfax	Lamberton	Plattsmouth	Urbana
	IA 1,2,5,7	IA 2,5,7	IL 2,5,7	MI I	MN 2,5,7	MN I	NE 2,5,7	IL NI
Strain								
1 IA2102	9/29		9/13			10/6	9/22	9/19
2 IA1022 (SCN)	2		-8			-6	-4	-9
3 IA3024	8		5			7	10	4
4 LD02- 4485	5		1			8	-2	3
5 AR13-231010	2		3			2	5	3
6 AR13-231013	-2		-6			3	1	-6
7 E12007	8		4			2	8	3
8 E12023	7		8			2	6	7
9 E12061	4		-5			6	3	0
10 E12076	11		12			-11	5	3
11 E12377	6		3			-9	1	5
12 LD10-14323	5		2			-7	-1	4
13 LD11-4787a	1		-5			4	-2	1
14 LD11-6066	4		-4			5	4	1
15 LD11-6087	9		4			7	7	3
16 LD11-6797	8		0			7	3	-4
17 M08-344021	3		0			3	1	2
18 M08-344109	5		4			-3	0	3
19 ORC 5811N	-3		-7			3	-8	-9
Planted	5/23	5/21	5/7	5/5	5/30	5/15	5/21	5/21

Lodging (score)

SCN HG Type	Ames	Moorhead	Pontiac	Decatur	Fairfax	Lamberton	Plattsmouth	Urbana
	IA 1,2,5,7	IA 2,5,7	IL 2,5,7	MI I	MN 2,5,7	MN I	NE 2,5,7	IL NI
Strain								
1 IA2102		2.5	2.5			2.0	2.0	2.3
2 IA1022 (SCN)		2.5	3.3			1.0	2.3	1.8
3 IA3024		2.5	2.3			2.0	1.5	1.8
4 LD02- 4485		2.5	2.8			1.5	2.0	1.8
5 AR13-231010		2.5	2.0			2.0	2.3	1.5
6 AR13-231013		2.0	2.0			2.0	1.8	1.3
7 E12007		2.5	2.5			1.5	1.8	1.8
8 E12023		2.8	2.3			2.0	1.8	1.8
9 E12061		2.3	1.3			1.5	1.3	1.5
10 E12076		2.8	2.5			2.0	2.3	2.0
11 E12377		2.8	2.5			2.0	1.5	2.0
12 LD10-14323		3.0	2.5			2.0	2.0	1.5
13 LD11-4787a		2.3	2.0			1.5	2.0	1.5
14 LD11-6066		2.5	2.0			2.0	1.8	1.8
15 LD11-6087		2.5	2.5			1.5	1.8	1.5
16 LD11-6797		2.3	1.8			1.0	1.8	1.5
17 M08-344021		2.0	1.8			1.5	1.5	1.0
18 M08-344109		2.8	4.0			1.5	3.3	2.0
19 ORC 5811N		2.8	2.3			1.5	2.3	1.5

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Height (inches)

SCN HG Type	Ames	Moorhead	Pontiac	Decatur	Fairfax	Lamberton	Plattsmouth	Urbana
	IA	IA	IL	MI	MN	MN	NE	IL
1,2,5,7	2,5,7	2,5,7	I	2,5,7	I	2,5,7	NI	
Strain								
1 IA2102		33	39			28	25	33
2 IA1022 (SCN)		39	39			28	27	28
3 IA3024		41	39			31	25	35
4 LD02- 4485		41	39			29	26	34
5 AR13-231010		39	38			31	24	32
6 AR13-231013		39	37			30	25	33
7 E12007		43	43			28	28	41
8 E12023		41	40			32	25	34
9 E12061		33	36			29	23	33
10 E12076		41	32			28	30	36
11 E12377		41	38			32	27	32
12 LD10-14323		35	37			28	23	30
13 LD11-4787a		36	36			34	24	31
14 LD11-6066		34	37			29	24	32
15 LD11-6087		39	39			32	21	31
16 LD11-6797		38	42			31	30	34
17 M08-344021		41	40			27	28	30
18 M08-344109		47	42			33	29	32
19 ORC 5811N		38	35			29	24	32

Seed Quality (score)

SCN HG Type	Ames	Moorhead	Pontiac	Decatur	Fairfax	Lamberton	Plattsmouth	Urbana
	IA	IA	IL	MI	MN	MN	NE	IL
1,2,5,7	2,5,7	2,5,7	I	2,5,7	I	2,5,7	NI	
Strain								
1 IA2102			2.0		5.0	1.0	3.0	2.0
2 IA1022 (SCN)			2.0		2.0	2.0	2.0	3.0
3 IA3024			2.0			1.0	2.0	2.0
4 LD02- 4485			3.0		3.0	2.0	2.0	2.0
5 AR13-231010			2.0		3.0	1.0	2.0	2.0
6 AR13-231013			2.0		2.0	2.0	2.0	1.0
7 E12007			1.0		5.0	1.0	2.0	2.0
8 E12023			1.0		5.0	2.0	2.0	2.0
9 E12061			1.0		2.0	1.0	2.0	2.0
10 E12076			1.0		2.0	1.0	2.0	3.0
11 E12377			1.0		5.0	1.0	1.0	2.0
12 LD10-14323			2.0		5.0	2.0	2.0	2.0
13 LD11-4787a			2.0		2.0	1.0	2.0	2.0
14 LD11-6066			2.0		4.0	1.0	2.0	2.0
15 LD11-6087			3.0		5.0	2.0	2.0	2.0
16 LD11-6797			2.0			2.0	2.0	2.0
17 M08-344021			4.0		4.0	1.0	2.0	2.0
18 M08-344109			4.0		3.0	1.0	2.0	3.0
19 ORC 5811N			3.0		3.0	1.0	2.0	2.0

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Seed Weight (g/100)

SCN HG Type	Ames	Moorhead	Pontiac	Decatur	Fairfax	Lamberton	Plattsmouth	Urbana
	IA	IA	IL	MI	MN	MN	NE	IL
1,2,5,7	2,5,7	2,5,7	I	2,5,7	I	2,5,7	NI	
Strain								
1 IA2102			17.9		10.7	16.8	18.9	17.1
2 IA1022 (SCN)			17.9		12.8	16.5	19.8	16.5
3 IA3024			17.6			17.8	18.8	17.0
4 LD02- 4485			15.7		13.1	16.8	17.6	16.5
5 AR13-231010			18.4		14.3	16.4	20.2	18.3
6 AR13-231013			17.5		12.2	15.6	21.8	18.1
7 E12007			15.2		10.4	16.1	18.3	15.6
8 E12023			15.1		11.2	18.6	17.2	14.8
9 E12061			16.7		11.7	18.2	16.8	17.9
10 E12076			19.9		13.2	17.8	18.9	17.4
11 E12377			17.5		12.0	16.5	19.5	18.7
12 LD10-14323			18.6		10.8	19.1	19.9	17.7
13 LD11-4787a			17.4		13.4	17.5	19.1	17.7
14 LD11-6066			18.8		12.9	14.8	20.2	17.2
15 LD11-6087			17.7		11.4	16.1	18.6	16.0
16 LD11-6797			16.2			17.2	19.0	14.8
17 M08-344021			17.2		11.2	15.4	18.6	16.4
18 M08-344109			17.3		10.0	17.3	17.2	15.1
19 ORC 5811N			21.1		13.5	18.5	21.0	18.6

Protein (%)

SCN HG Type	Ames	Moorhead	Pontiac	Decatur	Fairfax	Lamberton	Plattsmouth	Urbana
	IA	IA	IL	MI	MN	MN	NE	IL
1,2,5,7	2,5,7	2,5,7	I	2,5,7	I	2,5,7	NI	
Strain								
1 IA2102	29.9		34.5		35.6	35.0	35.5	36.1
2 IA1022 (SCN)	35.2		33.2		33.2	33.0	35.0	30.9
3 IA3024	33.9		34.1		34.2		36.2	31.2
4 LD02- 4485	29.5		32.5		34.8	31.9	33.3	29.4
5 AR13-231010	32.8		32.4		34.8	32.6	33.8	32.7
6 AR13-231013	35.2		33.2		35.8	34.8	35.5	34.1
7 E12007	34.1		35.1		35.7	33.5	34.9	34.0
8 E12023	34.5		33.9		36.5	34.1	35.0	35.3
9 E12061	34.2		33.4		32.8	32.7	34.6	
10 E12076	34.8		34.5		36.1	33.8	33.8	32.5
11 E12377	35.0		33.0		34.4	32.9	33.3	33.2
12 LD10-14323	37.0		34.3		35.9	34.9	34.7	35.2
13 LD11-4787a	38.4		34.0		33.8	35.4	35.2	33.4
14 LD11-6066	33.6		32.4		35.2	33.2	35.7	31.2
15 LD11-6087	33.4		32.7			34.9	33.5	30.4
16 LD11-6797	34.6		31.2		32.8		33.6	30.3
17 M08-344021	31.3		33.1		32.8	33.7	34.2	31.1
18 M08-344109	33.9		34.5		36.9	34.5	36.6	34.1
19 ORC 5811N	35.9		36.4		35.0	35.6	36.7	35.1

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Oil (%)

SCN HG Type	Ames	Moorhead	Pontiac	Decatur	Fairfax	Lamberton	Plattsmouth	Urbana
	IA 1,2,5,7	IA 2,5,7	IL 2,5,7	MI I	MN 2,5,7	MN I	NE 2,5,7	IL NI
Strain								
1 IA2102	18.8		17.6		16.2	16.1	19.0	17.9
2 IA1022 (SCN)	16.7		18.4		18.4	18.3	20.1	20.7
3 IA3024	16.1		18.2		16.5		17.2	18.7
4 LD02- 4485	18.4		18.2		16.5	18.0	17.6	18.7
5 AR13-231010	16.3		17.9		18.2	17.0	17.1	18.7
6 AR13-231013	16.0		17.9		16.8	15.7	17.6	16.8
7 E12007	17.3		18.2		16.1	16.0	17.7	19.1
8 E12023	16.3		17.8		18.0	16.5	16.4	17.7
9 E12061	17.4		18.2		18.4	16.1	18.4	
10 E12076	16.4		16.8		17.4	15.8	17.1	19.1
11 E12377	16.6		19.3		17.2	17.0	17.3	18.7
12 LD10-14323	15.9		18.1		17.6	16.3	17.6	18.3
13 LD11-4787a	16.3		17.8		16.3	17.8	17.6	19.3
14 LD11-6066	18.1		19.5		16.3	18.1	18.0	18.8
15 LD11-6087	18.5		18.5			16.5	18.6	19.2
16 LD11-6797	18.6		19.9		16.5		19.9	20.2
17 M08-344021	18.3		19.4		18.2	18.0	18.2	19.0
18 M08-344109	18.0		17.9		16.7	16.9	17.8	18.4
19 ORC 5811N	17.8		17.2		17.0	16.5	18.8	18.1