

2014 SCN PRELIM TEST I

Strain	FPhm	Parentage	Gen. Comp.	SCN res source	Traits
1 MN1410	WGbf	Unknown	F5	None	
2 IA1022 (SCN)	PGy	Dairyland 98822 x A00-711024	F5	PI88788	
3 Shyenenne (0)	PGy	Pioneer 9071 x A96-492041	F4	None	Rsp1-c
4 AR13-131001	PGibl	AR07-175036 x AR05-150139	F5	PI 90763,88788	
5 AR13-131002	PGibl	AR07-175036 x AR05-150139	F5	PI 90763,88788	
6 AR13-131003	PGibl	AR05-250101 x PI 567516C	F5	PI 567516C,88788	IDC
7 AR13-131005	PGibl	AR05-250101 x PI 567516C	F5	PI 567516C,88788	IDC
8 AR13-131009	PTbl+br	AR03-161009 x AR06-365076	F5	PI 507354,88788	
9 M08-208116	PTbl	MN0302 x LD05-16638	F5	PI 88788	
10 M08-208118	PTbl	MN0302 x LD05-16638	F5	PI 88788	
11 M08-328030	PGbf+y	MN0308CN x M03-176076	F5	PI 88788	protein
12 M08-344051	WGbf	LD00-2187 x MN0308CN	F5	PI 88788, 437654	
13 M08-354011	P+WTy	ND03-7566 x MN1413CN	F5	PI 88788	
14 M08-359087	WTy	M02-391112 x MN1701CN	F5	PI 88788,209332	
15 M08-359183	WLty	M02-391112 x MN1701CN	F5	PI 88788,209332	
16 M08-362051	PGy	MN0606CN x U03-100612	F5	PI 88788	
17 M08-365038	P+WTr	M90-184111 x U03-100612	F5	PI 88788	
18 M08-365100	PGibl	M90-184111 x U03-100612	F5	PI 88788	
19 M08-603047	PGy	V99-5089 x MN0606CN	F5	PI 88788	
20 ORC 7612N	WTy	Katrina x A04-543037	F6	PI 88788	

Entry	IL SCN screening				ISU IDC	MN IDC
	HG 0		HG 2.5.7		Ames	Danvers
	FI	rating	FI	rating	score	score
1 MN1410	76	NR	101	NR	2.6	2.2
2 IA1022 (SCN)	5	HR	40	LR	2.2	1.9
3 Shyenenne (0)	78	NR	104	NR	1.8	2.1
4 AR13-131001	4	HR	30	**	2.2	1.9
5 AR13-131002	4	HR	40	LR	3.7	2.1
6 AR13-131003	3	HR	27	MR	2.2	2.4
7 AR13-131005	3	HR	23	R	2.7	2.0
8 AR13-131009	10	R	42	LR	1.8	2.0
9 M08-208116	71	NR	98	NR	2.2	2.4
10 M08-208118	74	NR	122	NR	3.0	2.0
11 M08-328030	11	R	30	MR	3.0	2.7
12 M08-344051	0	HR	2	HR	2.5	2.4
13 M08-354011	3	HR	17	R	2.0	1.8
14 M08-359087	10	R	44	LR	2.2	2.6
15 M08-359183	5	HR	36	MR	2.6	2.0
16 M08-362051	4	HR	9	HR	3.5	2.7
17 M08-365038	53	L	28	**	1.8	2.3
18 M08-365100	7	HR	42	LR	2.7	2.6
19 M08-603047	71	NR	86	NR	2.0	2.3
20 ORC 7612N	68	NR	104	NR	2.7	3.2

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

2014 SCN PRELIM TEST I

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									
1 MN1410	Locations	5		4		1		5	6	5	4	4	5	5	
2 IA1022 (SCN)		54.4	9	54.4	10	54.1	10	918	2.0	32	1.8	17.5	35.7	17.3	
3 Sheyenne (0)		57.2	6	57.5	4	56.4	7	4	1.9	29	2.8	16.8	32.3	18.6	
4 AR13-131001		44.3	20	43.6	20	46.8	14	-8	1.5	27	3.3	17.6	35.2	17.8	
5 AR13-131002		53.3	11	51.9	12	59.3	6	0	1.6	26	1.8	20.9	35.5	17.3	
6 AR13-131003		57.5	4	56.7	7	61.0	5	2	2.0	28	1.8	17.1	35.1	16.7	
7 AR13-131005		57.3	5	56.0	8	62.4	3	3	2.0	31	1.5	18.8	34.7	17.6	
8 AR13-131009		57.0	7	57.7	2	54.2	9	1	1.8	28	1.3	20.4	35.4	17.3	
9 M08-208116		58.9	2	56.8	5	67.5	1	7	1.9	35	1.5	16.3	35.5	16.2	
10 M08-208118		49.1	15	50.8	14	42.4	18	-2	1.9	32	2.3	21.4	37.8	16.3	
11 M08-328030		53.3	11	52.7	11	55.8	8	0	1.7	33	1.3	18.7	36.3	16.7	
12 M08-344051		45.6	19	47.0	19	39.9	19	-7	1.4	25	3.3	18.2	38.3	17.2	
13 M08-354011		46.1	18	48.3	17	37.5	20	-3	1.6	27	2.0	15.0	32.2	18.6	
14 M08-359087		48.5	16	49.6	16	44.1	17	-6	2.0	28	1.8	14.7	34.9	18.3	
15 M08-359183		56.2	8	57.6	3	50.6	12	1	2.3	33	2.3	17.1	34.7	17.1	
16 M08-362051		49.3	14	50.4	15	44.9	15	-3	2.1	32	2.5	18.0	36.2	17.2	
17 M08-365038		60.5	1	60.3	1	61.4	4	3	2.0	31	2.0	15.8	34.7	17.1	
18 M08-365100		53.4	10	54.7	9	48.3	13	2	1.8	31	2.0	17.3	32.6	18.9	
19 M08-603047		58.2	3	56.8	5	63.7	2	6	2.1	30	2.0	17.5	34.7	18.0	
20 ORC 7612N		47.2	17	47.9	18	44.8	16	-6	1.7	28	2.8	16.5	34.0	17.9	
		52.2	13	51.9	12	53.6	11	0	2.0	32	1.5	19.8	34.9	17.6	
Mean		53.0		53.1		52.4		0.0	1.8	30.5					
LSD(.05)		3.9		4.5		7.5		1.0	0.3	2.2					
C.V. %		8.4		8.0		6.9		6.3	18.3	7.1					

2014 SCN PRELIM TEST I

Yield (bu/a)

SCN HG Type	Mason City	Newell	Dekalb	Fairfax	Lamberton	Urbana
	IA	IA	IL	MN	MN	IL
SCN HG Type	2.5.7	IA	2.5.7	2.5.7	I	NI
Strain						
1 MN1410	50.1	42.3	69.3	40.3	58.1	54.1
2 IA1022 (SCN)	55.0	51.9	66.6	48.8	57.6	56.4
3 Sheyenne (0)	40.8	26.3	47.7	32.5	53.6	46.8
4 AR13-131001	52.2	66.7	61.2	33.4	60.6	59.3
5 AR13-131002	53.6	45.9	70.5	39.2	63.5	61.0
6 AR13-131003	55.7	55.2	72.3	37.5	58.5	62.4
7 AR13-131005	48.0	58.5	70.4	48.8	63.7	54.2
8 AR13-131009	56.7	68.8	68.7	39.6	62.3	67.5
9 M08-208116	49.7	42.6	58.2	41.3	54.2	42.4
10 M08-208118	48.6	50.5	62.8	40.7	58.7	55.8
11 M08-328030	42.4	37.0	50.4	43.1	52.4	39.9
12 M08-344051	43.3	48.6	51.6	46.5	51.7	37.5
13 M08-354011	46.6	48.9	51.8	46.6	53.3	44.1
14 M08-359087	55.4	47.6	65.9	46.3	62.7	50.6
15 M08-359183	44.5	43.9	50.4	45.5	61.1	44.9
16 M08-362051	58.6	63.5	69.8	49.5	63.3	61.4
17 M08-365038	57.7	44.3	59.9	42.0	59.1	48.3
18 M08-365100	56.0	55.7	68.3	45.9	57.0	63.7
19 M08-603047	38.9	22.7	59.0	34.2	57.5	44.8
20 ORC 7612N	54.0	55.3	62.4	35.0	56.2	53.6
Average	50.6	47.8	61.9	41.8	58.3	52.4
LSD(.05)	4.0	18.6	9.5	8.3	11.4	7.5
C.V. %	4.0	19.5*	7.3	9.6	9.5	6.9
Replications	2	2	2	2	2	2
Row spacing (in.)	30	30	30	30	30	30

Yield (rank)

SCN HG Type	Mason City	Newell	Dekalb	Fairfax	Lamberton	Urbana
	IA	IA	IL	MN	MN	IL
SCN HG Type	2.5.7	IA	2.5.7	2.5.7	I	NI
Strain						
1 MN1410	11	17	5	13	11	10
2 IA1022 (SCN)	7	8	8	2	12	7
3 Sheyenne (0)	19	19	20	20	17	14
4 AR13-131001	10	2	12	19	7	6
5 AR13-131002	9	13	2	15	2	5
6 AR13-131003	5	7	1	16	10	3
7 AR13-131005	14	4	3	2	1	9
8 AR13-131009	3	1	6	14	5	1
9 M08-208116	12	16	15	11	16	18
10 M08-208118	13	9	10	12	9	8
11 M08-328030	18	18	18	9	19	19
12 M08-344051	17	11	17	5	20	20
13 M08-354011	15	10	16	4	18	17
14 M08-359087	6	12	9	6	4	12
15 M08-359183	16	15	18	8	6	15
16 M08-362051	1	3	4	1	3	4
17 M08-365038	2	14	13	10	8	13
18 M08-365100	4	5	7	7	14	2
19 M08-603047	20	20	14	18	13	16
20 ORC 7612N	8	6	11	17	15	11

2014 SCN PRELIM TEST I

Maturity

Strain	Mason City	Newell	Dekalb	Fairfax	Lamberton	Urbana
	IA	IA	IL	MN	MN	IL
SCN HG Type	2.5.7	IA	2.5.7	2.5.7	I	NI
1 MN1410	9/20		9/12	9/30	9/27	9/03
2 IA1022 (SCN)	5		2	3	3	5
3 Shyenenne (0)	-13		-10	-4	-7	-4
4 AR13-131001	2		2	0	-1	-1
5 AR13-131002	5		2	0	0	3
6 AR13-131003	4		4	0	2	5
7 AR13-131005	3		0	0	2	1
8 AR13-131009	8		11	-4	6	15
9 M08-208116	-1		-2	-2	-5	-1
10 M08-208118	2		1	-4	0	0
11 M08-328030	-7		-8	-4	-11	-7
12 M08-344051	-2		-3	-4	-2	-4
13 M08-354011	-5		-7	-8	-6	-6
14 M08-359087	3		2	0	-1	1
15 M08-359183	-4		-4	0	-4	-5
16 M08-362051	6		3	2	2	4
17 M08-365038	4		-1	3	3	3
18 M08-365100	7		5	6	6	6
19 M08-603047	-9		-6	-8	-2	-3
20 ORC 7612N	1		-2	0	-1	0
Planted	5/20	5/17	5/20	5/30	5/15	5/21

Lodging (score)

Strain	Mason City	Newell	Dekalb	Fairfax	Lamberton	Urbana
	IA	IA	IL	MN	MN	IL
SCN HG Type	2.5.7	IA	2.5.7	2.5.7	I	NI
1 MN1410	2.0	2.3	2.5	1.0	2.0	2.3
2 IA1022 (SCN)	2.5	2.5	1.8	1.0	1.5	2.0
3 Shyenenne (0)	1.8	1.8	1.3	1.0	1.5	1.5
4 AR13-131001	2.3	1.8	1.3	1.0	2.0	1.5
5 AR13-131002	2.5	2.0	2.5	1.0	2.0	1.8
6 AR13-131003	2.5	2.3	2.5	1.0	2.0	2.0
7 AR13-131005	2.5	2.3	1.8	1.0	1.5	1.5
8 AR13-131009	2.3	2.0	2.3	1.0	2.0	1.8
9 M08-208116	2.3	2.3	2.3	1.0	1.5	1.8
10 M08-208118	2.0	2.0	1.5	1.0	2.0	1.5
11 M08-328030	1.8	1.8	1.3	1.0	1.5	1.3
12 M08-344051	2.0	2.5	1.5	1.0	1.0	1.5
13 M08-354011	2.0	2.3	1.5	2.0	2.0	2.0
14 M08-359087	2.3	2.5	2.5	2.0	2.0	2.3
15 M08-359183	2.3	2.0	2.3	2.0	2.0	2.0
16 M08-362051	2.5	2.8	2.0	1.0	2.0	2.0
17 M08-365038	2.0	2.0	2.3	1.0	2.0	1.5
18 M08-365100	2.3	2.3	3.0	1.0	2.0	2.0
19 M08-603047	1.5	1.5	1.8	2.0	2.0	1.3
20 ORC 7612N	2.5	2.5	2.5	1.0	2.0	1.5

2014 SCN PRELIM TEST I

Height (inches)

Strain	Mason City	Newell	Dekalb	Fairfax	Lamberton	Urbana
	IA	IA	IL	MN	MN	IL
	SCN HG Type 2.5.7	IA	2.5.7	2.5.7	I	NI
1 MN1410	28	26	37		31	36
2 IA1022 (SCN)	29	25	33		30	30
3 Sheyenne (0)	26	21	32		25	31
4 AR13-131001	25	21	29		27	29
5 AR13-131002	27	24	32		28	31
6 AR13-131003	30	30	37		28	31
7 AR13-131005	25	26	31		28	28
8 AR13-131009	32	32	39		33	38
9 M08-208116	34	25	39		31	31
10 M08-208118	31	29	37		31	35
11 M08-328030	24	22	29		23	25
12 M08-344051	27	25	29		25	27
13 M08-354011	27	26	31		28	30
14 M08-359087	34	28	36		31	35
15 M08-359183	34	26	35		30	33
16 M08-362051	28	31	32		30	32
17 M08-365038	33	28	35		30	31
18 M08-365100	28	26	36		32	30
19 M08-603047	25	20	35		30	31
20 ORC 7612N	32	32	35		29	34

Seed Quality (score)

Strain	Mason City	Newell	Dekalb	Fairfax	Lamberton	Urbana
	IA	IA	IL	MN	MN	IL
	SCN HG Type 2.5.7	IA	2.5.7	2.5.7	I	NI
1 MN1410			2.0	1.0	2.0	2.0
2 IA1022 (SCN)			3.0	3.0	2.0	3.0
3 Sheyenne (0)			3.0	3.0	4.0	3.0
4 AR13-131001			1.0	2.0	2.0	2.0
5 AR13-131002			1.0	3.0	2.0	1.0
6 AR13-131003			2.0	2.0	1.0	1.0
7 AR13-131005			1.0	2.0	1.0	1.0
8 AR13-131009			1.0	2.0	1.0	2.0
9 M08-208116			3.0	1.0	3.0	2.0
10 M08-208118			1.0	1.0	1.0	2.0
11 M08-328030			4.0	2.0	4.0	3.0
12 M08-344051			2.0	2.0	3.0	1.0
13 M08-354011			2.0	1.0	2.0	2.0
14 M08-359087			3.0	2.0	3.0	1.0
15 M08-359183			3.0	2.0	3.0	2.0
16 M08-362051			2.0	2.0	2.0	2.0
17 M08-365038			2.0	2.0	2.0	2.0
18 M08-365100			1.0	3.0	2.0	2.0
19 M08-603047			3.0	2.0	4.0	2.0
20 ORC 7612N			2.0	1.0	2.0	1.0

2014 SCN PRELIM TEST I

Seed Weight (g/100)

Strain	Mason City	Newell	Dekalb	Fairfax	Lamberton	Urbana
	IA	IA	IL	MN	MN	IL
	SCN HG Type	2.5.7	IA	2.5.7	2.5.7	I
1 MN1410			19.3	15.3	18.4	16.9
2 IA1022 (SCN)			19.2	15.1	16.8	16.2
3 Sheyenne (0)			17.9	15.4	19.3	17.6
4 AR13-131001			22.8	19.2	21.3	20.4
5 AR13-131002			19.2	13.5	18.0	17.7
6 AR13-131003			21.2	16.2	20.1	17.6
7 AR13-131005			22.1	18.5	22.0	19.1
8 AR13-131009			17.0	13.8	17.9	16.5
9 M08-208116			23.4	18.6	23.2	20.2
10 M08-208118			19.8	17.3	18.8	18.8
11 M08-328030			19.7	17.7	18.4	17.1
12 M08-344051			15.4	14.3	15.4	14.8
13 M08-354011			15.8	13.9	15.0	14.0
14 M08-359087			19.8	16.1	16.7	15.9
15 M08-359183			19.0	17.6	18.2	17.1
16 M08-362051			17.1	14.7	16.2	15.3
17 M08-365038			19.0	14.5	18.1	17.5
18 M08-365100			18.2	15.9	17.9	18.0
19 M08-603047			17.3	13.7	18.3	16.7
20 ORC 7612N			22.2	17.1	20.8	18.9

Protein (%)

Strain	Mason City	Newell	Dekalb	Fairfax	Lamberton	Urbana
	IA	IA	IL	MN	MN	IL
	SCN HG Type	2.5.7	IA	2.5.7	2.5.7	I
1 MN1410	34.1		39.0	35.4	35.8	34.1
2 IA1022 (SCN)	30.8		34.2	31.3	34.1	30.8
3 Sheyenne (0)	32.8		37.6	35.0	36.2	34.2
4 AR13-131001	33.9		37.6	35.2	34.9	36.1
5 AR13-131002	35.1		37.2	34.1	35.6	33.7
6 AR13-131003	32.3		36.1	35.3	36.9	32.8
7 AR13-131005	35.0		37.5	33.5	35.6	35.5
8 AR13-131009	35.8		36.9	34.8	37.1	33.2
9 M08-208116	36.7		40.6	37.2	39.3	35.0
10 M08-208118	35.5		36.9	38.0	36.9	34.3
11 M08-328030	36.4		40.7	38.1	38.6	37.7
12 M08-344051	29.5		33.3	31.7	34.2	32.5
13 M08-354011	33.0		36.2	34.5	36.9	33.9
14 M08-359087	32.2		37.2	36.0	34.3	33.9
15 M08-359183	35.1		38.7	35.6	35.5	36.2
16 M08-362051	33.2		36.9	33.8	35.4	34.1
17 M08-365038	30.6		33.1	33.6	34.0	31.6
18 M08-365100	33.4		35.8	33.7	37.0	33.4
19 M08-603047	32.7		34.3	33.3	36.1	33.8
20 ORC 7612N	33.2		38.3	34.2	35.9	33.1

2014 SCN PRELIM TEST I

Oil (%)

SCN HG Type	Mason City	Newell	Dekalb	Fairfax	Lamberton	Urbana
	IA	IA	IL	MN	MN	IL
Strain	2.5.7	IA	2.5.7	2.5.7	I	NI
1 MN1410	18.5		16.9	16.2	16.8	18.0
2 IA1022 (SCN)	18.9		18.3	17.3	18.8	19.5
3 Shyenne (0)	18.4		17.0	16.6	18.1	18.7
4 AR13-131001	18.2		16.2	15.7	17.3	19.1
5 AR13-131002	16.7		16.3	15.0	17.0	18.7
6 AR13-131003	18.4		16.0	16.3	17.4	19.9
7 AR13-131005	16.9		16.4	16.6	18.6	17.9
8 AR13-131009	15.6		16.0	15.7	16.1	17.5
9 M08-208116	16.2		15.6	15.7	16.8	17.1
10 M08-208118	17.5		16.0	16.3	16.0	17.9
11 M08-328030	19.1		15.3	16.3	17.7	17.4
12 M08-344051	19.7		18.3	17.1	18.7	18.9
13 M08-354011	18.9		17.2	17.5	19.1	18.6
14 M08-359087	18.0		17.0	15.5	16.8	18.1
15 M08-359183	17.4		17.3	16.5	17.4	17.6
16 M08-362051	18.7		15.5	15.8	17.8	17.6
17 M08-365038	19.0		19.1	17.9	18.4	20.1
18 M08-365100	18.3		18.5	16.6	16.9	19.4
19 M08-603047	18.7		17.7	16.8	17.4	18.7
20 ORC 7612N	18.5		18.2	16.3	16.6	18.4