

2015 SCN PRELIM TEST I

Strain	FPhlm	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 Sheyenne (0)	PGy	Pioneer 9071 x A96-492041	F4	None	Rsp1-c
4 AR14-147002	PGbf	Syngenta 04RM819800 x IAR2101	F4	PI 507354	
5 AR14-147009	PLtbr	AR07-176090 x (Ina x AR03-161009)	F3	PI 88788,437654,507354	
6 M09-246032	WGbf	M90-184111 x M02-141020	F5	PI 88788	
7 M09-269079	PGibl	MN0908CN x LD02-4485	F5	PI 88788,209332	
8 M09-274049	PTbr	MN0208CN x LD02-4485	F5	PI 88788,209332	
9 M09-278026	P+WGy	M90-184111 x E06936	F5	PI 88788	
10 M09-285032	PGy	MN1701CN x E06936	F5	PI 88788,209332	
11 M09-285149	PGbf	MN1701CN x E06936	F5	PI 88788,209332	
12 MSC09-771018	PTbr	MN0095 x PI438489B	F5	PI 438489B	
13 MSC09-771019	PTbr	MN0095 x PI438489B	F5	PI 438489B	
14 MSC09-774074	PTbr	Sheyenne x PI567516C	F5	PI 567516C	
15 MSC09-774089	WGy	Sheyenne x PI567516C	F5	PI 567516C	
16 MSC09-776063	WGbf	MN1410 x PI567516C	F5	PI 567516C	
17 MSC09-777140	WGbf+y	IA2073 x PI438489B	F5	PI 438489B	
18 ORC 3313N	WGy	Starfield x SC 2307	F5	PI 88788	
19 ORC 3713N	PGy	Starfield x SC 2307	F5	PI 88788	
20 OAC 13-85C-SCN	PTbr	SC Starfield (SCN) x OAC Wallace	F4	PI 88788	
21 OAC 13-87C-SCN	WTbr	SC Starfield (SCN) x OAC Wallace	F4	PI 88788	

Entry	IL SCN screening				ISU IDC	MN IDC
	HG 0		HG 2.5.7		Ames	Danvers
	FI (Lee 74)	rating	FI (Lee 74)	rating	score	score
1 MN1410	75	NR	55	LR	2.3	1.4
2 IA1022 (SCN)	16	R	13	R	2.5	0.9
3 Sheyenne (0)	81	NR	62	NR	1.4	0.7
4 AR14-147002	63	NR	48	LR	2.5	1.2
5 AR14-147009	0	HR	6	HR	1.6	1.3
6 M09-246032	111	NR	60	NR	2.0	1.1
7 M09-269079	10	R	17	R	1.5	0.8
8 M09-274049	46	MR	55	LR	2.3	0.7
9 M09-278026	3	HR	14	R	2.3	1.3
10 M09-285032	9	HR	16	R	2.6	1.2
11 M09-285149	1	HR	5	HR	1.9	0.9
12 MSC09-771018	77	NR	81	NR	1.9	1.0
13 MSC09-771019	68	NR	59	LR	1.8	0.8
14 MSC09-774074	4	HR	19	R	2.1	0.8
15 MSC09-774089	4	HR	18	R	2.4	0.9
16 MSC09-776063	**	**	**	**	2.5	1.7
17 MSC09-777140	**	**	15	R	2.0	0.9
18 ORC 3313N	13	R	26	MR	2.3	1.3
19 ORC 3713N	10	R	27	MR	1.8	1.3
20 OAC 13-85C-SCN	45	MR	48	LR	1.2	0.9
21 OAC 13-87C-SCN	1	HR	16	R	2.4	1.0

**rep data too variable to rate
A11 (res) 1.4
IA3049 (sus) 2.5

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Summary

Entry	Yield								Maturity	Lodging	Height	Seed				
	All		Infested		Non-infested		date	score				in.	quality	weight	protein	oil
	bu/a	rank	bu/a	rank	bu/a	rank										
Locations	7		7		0		6	7	7	6	6	6	6			
1 MN1410	46.0	17	46.0	17			9/15	1.8	30	2.2	15.8	35.5	19.0			
2 IA1022 (SCN)	54.3	15	54.3	15			4	2.0	31	1.7	14.9	32.3	20.3			
3 Sheyenne (0)	37.5	21	37.5	21			-7	1.4	26	2.3	15.2	35.3	19.3			
4 AR14-147002	54.7	14	54.7	14			7	1.9	31	2.2	14.5	33.0	19.7			
5 AR14-147009	55.6	12	55.6	12			8	2.2	35	1.7	14.7	33.7	18.1			
6 M09-246032	37.8	20	37.8	20			-5	1.6	29	1.7	13.6	35.5	19.4			
7 M09-269079	57.7	9	57.7	9			5	2.1	36	1.3	15.6	34.6	19.7			
8 M09-274049	42.5	19	42.5	19			-5	1.4	28	1.8	14.9	35.6	18.1			
9 M09-278026	59.2	5	59.2	5			2	1.8	34	1.7	14.0	33.5	18.8			
10 M09-285032	60.4	3	60.4	3			2	1.9	35	1.5	15.1	33.4	19.7			
11 M09-285149	62.5	2	62.5	2			4	1.8	32	1.5	16.2	34.3	19.2			
12 MSC09-771018	50.0	16	50.0	16			2	1.4	34	1.7	16.4	32.2	20.4			
13 MSC09-771019	44.9	18	44.9	18			-1	1.6	32	1.8	15.5	31.7	20.9			
14 MSC09-774074	62.7	1	62.7	1			5	1.7	30	1.7	14.5	31.3	20.3			
15 MSC09-774089	58.2	7	58.2	7			3	1.8	34	1.8	15.0	34.2	19.4			
16 MSC09-776063	59.2	5	59.2	5			7	1.9	35	1.8	14.9	32.5	19.6			
17 MSC09-777140	57.8	8	57.8	8			6	1.4	26	2.0	16.2	32.2	19.6			
18 ORC 3313N	56.4	10	56.4	10			6	1.4	36	2.0	20.7	35.6	19.6			
19 ORC 3713N	59.6	4	59.6	4			7	1.7	37	2.0	18.6	34.0	20.3			
20 OAC 13-85C-SCN	54.9	13	54.9	13			3	1.5	36	2.2	17.3	32.7	20.0			
21 OAC 13-87C-SCN	55.7	11	55.7	11			0	1.4	34	2.0	17.3	33.8	20.2			
Mean	53.7		53.7				17.4	1.7	32.4	1.8	15.7	33.7	19.6			
LSD(.05)	3.2		3.2				0.7	0.2	1.3							
C.V. %	9.6		9.6				5.8	15.8	6.6							
Replications	14		14				12	14	14							

Yield (bu/a)

SCN HG Type	Mason City	Newell	Dekalb	Urbana	Fairfax	Lamberton	Waseca
	IA	IA	IL	IL	MN	MN	MN
	2.5.7	2.5.7	0	2.5.7	1.2.5.7	Inf	Inf
Strain							
1 MN1410	55.2	61.7	54.1	48.0	21.1	37.2	45.0
2 IA1022 (SCN)	59.1	67.3	49.7	52.9	43.2	50.7	57.3
3 Sheyenne (0)	38.8	55.9	37.5	43.5	20.8	35.2	31.1
4 AR14-147002	62.7	66.8	60.5	68.0	28.1	45.9	51.0
5 AR14-147009	63.0	59.0	59.2	60.2	41.7	58.3	47.8
6 M09-246032	44.1	51.4	37.5	40.8	21.0	37.8	32.3
7 M09-269079	61.0	60.3	53.9	56.5	56.3	56.3	59.5
8 M09-274049	44.8	52.4	44.0	39.9	30.4	49.0	37.0
9 M09-278026	58.5	67.5	65.7	58.2	58.7	51.7	54.1
10 M09-285032	65.9	64.8	66.5	59.0	50.9	59.1	56.5
11 M09-285149	62.7	67.7	67.5	64.0	60.3	57.8	57.8
12 MSC09-771018	53.8	59.5	56.2	52.7	35.3	43.7	48.7
13 MSC09-771019	53.1	58.1	46.4	38.8	33.9	44.2	40.0
14 MSC09-774074	67.1	69.8	66.8	55.9	62.9	59.5	57.2
15 MSC09-774089	61.8	62.0	52.5	58.0	52.6	61.7	59.0
16 MSC09-776063	67.8	65.3	59.6	49.7	50.4	58.2	63.4
17 MSC09-777140	61.4	61.9	52.7	54.8	62.0	52.6	59.5
18 ORC 3313N	63.7	63.3	55.8	55.5	51.2	52.0	53.2
19 ORC 3713N	61.0	58.7	62.5	66.2	57.9	60.3	50.4
20 OAC 13-85C-SCN	54.6	64.2	51.4	52.7	59.1	49.4	52.6
21 OAC 13-87C-SCN	59.5	66.1	50.6	50.9	53.9	55.1	53.6
Average	58.1	62.1	54.8	53.6	45.3	51.2	50.8
LSD(2-sided,.05)	4.3	8.4	15.2	8.4	13.8	11.6	9.7
C.V. %	3.7	6.5	13.3	7.5	14.5	10.8	9.2
Replications	2	2	2	2	2	2	2
Row spacing (in.)	30	30	30	30	30	30	30

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Yield (rank)

Strain	Yield (rank)						
	Mason City	Newell	Dekalb	Urbana	Fairfax	Lamberton	Waseca
	IA	IA	IL	IL	MN	MN	MN
SCN HG Type	2.5.7	2.5.7	0	2.5.7	1.2.5.7	Inf	Inf
1 MN1410	15	13	17	24	19	20	17
2 IA1022 (SCN)	13	4	24	19	13	13	6
3 Shyenenne (0)	21	19	27	25	21	21	21
4 AR14-147002	6	5	12	2	18	16	13
5 AR14-147009	5	16	14	7	14	5	16
6 M09-246032	20	21	28	26	20	19	20
7 M09-269079	10	14	18	12	7	8	2
8 M09-274049	19	20	26	27	17	15	19
9 M09-278026	14	3	5	9	5	12	9
10 M09-285032	3	8	4	8	11	4	8
11 M09-285149	6	2	2	4	3	7	5
12 MSC09-771018	17	15	15	21	15	18	15
13 MSC09-771019	18	18	25	28	16	17	18
14 MSC09-774074	2	1	3	15	1	3	7
15 MSC09-774089	8	11	21	10	9	1	4
16 MSC09-776063	1	7	13	23	12	6	1
17 MSC09-777140	9	12	20	17	2	10	3
18 ORC 3313N	4	10	16	16	10	11	11
19 ORC 3713N	11	17	9	3	6	2	14
20 OAC 13-85C-SCN	16	9	22	20	4	14	12
21 OAC 13-87C-SCN	12	6	23	22	8	9	10

Maturity

Strain	Maturity						
	Mason City	Newell	Dekalb	Urbana	Fairfax	Lamberton	Waseca
	IA	IA	IL	IL	MN	MN	MN
SCN HG Type	2.5.7	2.5.7	0	2.5.7	1.2.5.7	Inf	Inf
1 MN1410	9/21		9/14	8/24	9/14	9/30	9/21
2 IA1022 (SCN)	3		3	2	6	2	5
3 Shyenenne (0)	-9		-6	-3	-2	-15	-10
4 AR14-147002	4		9	5	12	1	7
5 AR14-147009	8		9	5	10	3	10
6 M09-246032	-5		-6	-5	0	-9	-6
7 M09-269079	5		7	6	2	1	6
8 M09-274049	-6		-3	-5	2	-14	-9
9 M09-278026	2		5	0	4	0	0
10 M09-285032	2		4	1	2	-1	2
11 M09-285149	4		5	3	2	1	4
12 MSC09-771018	3		3	4	2	-3	-2
13 MSC09-771019	-1		1	0	4	-8	-5
14 MSC09-774074	6		9	2	6	0	3
15 MSC09-774089	4		6	0	6	0	2
16 MSC09-776063	7		8	5	8	4	10
17 MSC09-777140	7		9	4	6	2	5
18 ORC 3313N	5		8	7	6	2	4
19 ORC 3713N	4		8	8	6	4	7
20 OAC 13-85C-SCN	4		1	7	4	-2	0
21 OAC 13-87C-SCN	-3		1	4	2	-4	-5
Planted	5/13	5/22	5/22	5/08	5/21	5/20	5/13

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Lodging (score)

SCN HG Type	Mason City	Newell	Dekalb	Urbana	Fairfax	Lamberton	Waseca
	IA	IA	IL	IL	MN	MN	MN
Strain	2.5.7	2.5.7	0	2.5.7	1.2.5.7	Inf	Inf
1 MN1410	2.3	2.5	1.5	1.0	2.0	1.0	2.0
2 IA1022 (SCN)	2.5	2.8	1.8	1.8	2.0	1.0	2.0
3 Sheyenne (0)	1.5	2.0	1.0	1.0	1.5	1.0	1.5
4 AR14-147002	2.3	3.0	1.5	1.5	2.0	1.0	2.0
5 AR14-147009	2.5	3.0	2.0	1.8	2.0	2.0	2.0
6 M09-246032	2.3	3.0	1.0	1.0	1.5	1.0	1.5
7 M09-269079	2.3	3.0	1.5	1.8	2.0	2.0	2.0
8 M09-274049	2.0	2.3	1.3	1.0	1.0	1.0	1.0
9 M09-278026	2.3	2.5	1.5	1.5	2.0	1.0	2.0
10 M09-285032	2.5	2.5	1.8	1.8	2.0	1.0	2.0
11 M09-285149	2.3	2.5	1.5	1.0	2.0	1.0	2.0
12 MSC09-771018	2.0	2.3	1.3	1.3	1.0	1.0	1.0
13 MSC09-771019	2.0	2.8	1.0	1.3	1.5	1.5	1.0
14 MSC09-774074	2.0	2.0	1.8	1.0	2.0	1.0	2.0
15 MSC09-774089	2.5	2.8	1.3	1.3	2.0	1.0	2.0
16 MSC09-776063	2.5	2.5	1.5	1.3	2.0	1.5	2.0
17 MSC09-777140	2.0	1.5	1.5	1.0	1.5	1.0	1.5
18 ORC 3313N	2.5	2.0	1.3	1.0	1.0	1.0	1.0
19 ORC 3713N	2.5	2.3	1.3	1.0	2.0	1.0	2.0
20 OAC 13-85C-SCN	1.8	2.3	1.0	1.3	1.5	1.5	1.0
21 OAC 13-87C-SCN	2.0	2.0	1.3	1.3	1.0	1.0	1.0

Height (inches)

SCN HG Type	Mason City	Newell	Dekalb	Urbana	Fairfax	Lamberton	Waseca
	IA	IA	IL	IL	MN	MN	MN
Strain	2.5.7	2.5.7	0	2.5.7	1.2.5.7	Inf	Inf
1 MN1410	34	38	30	35	22	30	25
2 IA1022 (SCN)	32	39	27	33	29	30	26
3 Sheyenne (0)	26	34	25	30	21	25	24
4 AR14-147002	32	41	29	35	24	31	24
5 AR14-147009	37	42	35	36	31	35	31
6 M09-246032	31	40	24	30	25	31	26
7 M09-269079	35	43	29	41	38	36	32
8 M09-274049	28	35	24	31	24	28	24
9 M09-278026	35	41	30	35	39	31	28
10 M09-285032	34	42	32	37	37	34	28
11 M09-285149	33	39	28	32	31	33	31
12 MSC09-771018	34	41	32	37	31	33	31
13 MSC09-771019	34	41	28	32	34	32	26
14 MSC09-774074	30	43	25	25	30	31	28
15 MSC09-774089	37	38	27	36	37	37	30
16 MSC09-776063	38	42	29	32	36	34	32
17 MSC09-777140	27	31	23	23	30	25	26
18 ORC 3313N	36	36	32	39	44	35	33
19 ORC 3713N	36	41	32	41	40	36	32
20 OAC 13-85C-SCN	35	44	32	38	43	32	30
21 OAC 13-87C-SCN	33	38	31	34	46	33	28

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Seed Quality (score)

SCN HG Type	Mason City	Newell	Dekalb	Urbana	Fairfax	Lamberton	Waseca
	IA	IA	IL	IL	MN	MN	MN
Strain	2.5.7	2.5.7	0	2.5.7	1.2.5.7	Inf	Inf
1 MN1410	2.0		1.0	3.0	2.0	3.0	2.0
2 IA1022 (SCN)	2.0		1.0	2.0	1.0	2.0	2.0
3 Shyenenne (0)	2.0		2.0	4.0	2.0	2.0	2.0
4 AR14-147002	2.0		1.0	3.0	2.0	4.0	1.0
5 AR14-147009	1.0		1.0	2.0	2.0	2.0	2.0
6 M09-246032	2.0		1.0	2.0	2.0	2.0	1.0
7 M09-269079	1.0		1.0	2.0	1.0	2.0	1.0
8 M09-274049	1.0		1.0	3.0	2.0	2.0	2.0
9 M09-278026	2.0		1.0	2.0	2.0	2.0	1.0
10 M09-285032	2.0		1.0	2.0	2.0	1.0	1.0
11 M09-285149	2.0		1.0	1.0	1.0	2.0	2.0
12 MSC09-771018	2.0		1.0	2.0	2.0	2.0	1.0
13 MSC09-771019	2.0		1.0	3.0	2.0	1.0	2.0
14 MSC09-774074	2.0		1.0	2.0	1.0	2.0	2.0
15 MSC09-774089	2.0		1.0	2.0	2.0	2.0	2.0
16 MSC09-776063	2.0		1.0	3.0	2.0	2.0	1.0
17 MSC09-777140	2.0		2.0	2.0	2.0	2.0	2.0
18 ORC 3313N	2.0		1.0	3.0	2.0	2.0	2.0
19 ORC 3713N	2.0		1.0	3.0	2.0	2.0	2.0
20 OAC 13-85C-SCN	2.0		2.0	4.0	2.0	2.0	1.0
21 OAC 13-87C-SCN	2.0		1.0	3.0	2.0	2.0	2.0

Seed Weight (g/100)

SCN HG Type	Mason City	Newell	Dekalb	Urbana	Fairfax	Lamberton	Waseca
	IA	IA	IL	IL	MN	MN	MN
Strain	2.5.7	2.5.7	0	2.5.7	1.2.5.7	Inf	Inf
1 MN1410	15.5		15.3	15.9	15.8	15.6	16.4
2 IA1022 (SCN)	14.3		13.2	15.9	14.9	15.9	15.1
3 Shyenenne (0)	15.4		14.9	18.8	13.6	12.7	15.6
4 AR14-147002	14.1		14.2	14.9	15.1	15.0	13.9
5 AR14-147009	14.4		13.4	14.6	13.1	15.1	17.7
6 M09-246032	13.4		13.1	14.6	12.6	13.7	14.4
7 M09-269079	15.0		14.4	17.2	15.3	17.1	14.5
8 M09-274049	14.9		14.8	17.1	14.4	14.0	13.9
9 M09-278026	12.9		13.6	16.2	14.0	14.1	13.1
10 M09-285032	14.1		14.5	17.7	14.7	15.2	14.2
11 M09-285149	13.7		14.3	16.4	15.3	15.1	22.1
12 MSC09-771018	15.7		17.1	18.4	14.8	16.2	16.1
13 MSC09-771019	14.2		14.8	17.2	14.3	15.9	16.4
14 MSC09-774074	14.4		13.8	14.9	15.1	14.7	14.2
15 MSC09-774089	14.0		14.0	16.5	14.9	15.4	15.4
16 MSC09-776063	14.2		14.9	15.9	14.8	14.8	15.0
17 MSC09-777140	14.8		15.5	18.2	16.6	16.5	15.8
18 ORC 3313N	20.4		19.7	23.8	20.4	20.6	19.2
19 ORC 3713N	18.0		17.1	21.2	18.0	19.8	17.5
20 OAC 13-85C-SCN	17.0		17.4	17.7	17.3	17.4	16.8
21 OAC 13-87C-SCN	17.0		18.1	18.4	16.7	17.4	16.2

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Protein (%)

SCN HG Type	Mason City	Newell	Dekalb	Urbana	Fairfax	Lamberton	Waseca
	IA	IA	IL	IL	MN	MN	MN
Strain	2.5.7	2.5.7	0	2.5.7	1.2.5.7	Inf	Inf
1 MN1410	34.8		34.0	36.7	38.2	35.1	34.1
2 IA1022 (SCN)	33.1		30.1	33.5	31.8	32.7	32.3
3 Shyenenne (0)	35.5		36.1	37.4	36.1	32.4	34.5
4 AR14-147002	32.4		31.2	32.4	35.4	33.2	33.1
5 AR14-147009	34.2		33.2	33.8	34.3	34.1	32.8
6 M09-246032	35.6		34.2	36.9	38.0	32.9	35.3
7 M09-269079	35.6		32.8	33.3	35.7	34.1	36.2
8 M09-274049	36.7		33.8	37.3	36.1	34.3	35.5
9 M09-278026	34.5		32.5	35.4	33.7	31.8	33.0
10 M09-285032	31.8		32.1	36.0	34.7	32.5	33.1
11 M09-285149	34.6		33.3	35.3	35.9	32.2	34.3
12 MSC09-771018	32.8		31.7	32.9	34.9	29.3	31.8
13 MSC09-771019	30.1		29.9	34.5	33.5	31.1	31.2
14 MSC09-774074	30.8		29.5	32.8	32.6	30.4	31.6
15 MSC09-774089	33.8		32.4	35.9	35.4	33.8	33.6
16 MSC09-776063	32.4		33.0	35.1	33.3	30.2	31.2
17 MSC09-777140	32.6		30.6	33.7	33.3	31.9	31.0
18 ORC 3313N	35.9		33.5	35.9	36.0	35.7	36.3
19 ORC 3713N	33.9		33.3	34.2	36.0	33.2	33.5
20 OAC 13-85C-SCN	33.7		31.6	35.2	32.6	30.4	32.5
21 OAC 13-87C-SCN	32.7		33.3	36.7	33.9	33.3	32.6

Oil (%)

SCN HG Type	Mason City	Newell	Dekalb	Urbana	Fairfax	Lamberton	Waseca
	IA	IA	IL	IL	MN	MN	MN
Strain	2.5.7	2.5.7	0	2.5.7	1.2.5.7	Inf	Inf
1 MN1410	19.1		19.2	20.3	17.4	18.6	19.5
2 IA1022 (SCN)	19.8		21.4	20.7	20.2	19.9	19.9
3 Shyenenne (0)	18.6		19.2	19.4	20.2	19.2	18.9
4 AR14-147002	19.2		19.9	20.7	19.6	19.0	19.6
5 AR14-147009	17.7		18.4	18.7	17.7	17.9	18.4
6 M09-246032	18.4		19.6	20.5	18.1	20.1	19.5
7 M09-269079	19.3		20.5	20.8	19.5	19.4	18.7
8 M09-274049	17.4		19.1	18.8	17.6	17.5	18.3
9 M09-278026	17.5		19.4	18.9	18.7	19.0	19.5
10 M09-285032	19.9		20.1	19.1	20.0	19.4	19.7
11 M09-285149	18.1		19.6	19.7	19.3	18.8	19.4
12 MSC09-771018	19.6		20.8	20.9	20.3	20.4	20.6
13 MSC09-771019	20.9		21.9	20.5	20.1	21.0	20.9
14 MSC09-774074	19.9		20.6	21.3	19.7	19.7	20.3
15 MSC09-774089	19.0		19.9	20.4	18.7	19.4	19.1
16 MSC09-776063	20.0		19.9	19.8	19.4	19.3	19.4
17 MSC09-777140	19.8		20.3	20.4	19.5	19.2	18.5
18 ORC 3313N	19.1		20.0	20.7	19.8	19.0	19.0
19 ORC 3713N	19.6		20.5	20.8	20.4	20.7	19.5
20 OAC 13-85C-SCN	20.0		21.0	19.7	19.7	19.4	20.4
21 OAC 13-87C-SCN	20.6		20.0	19.7	19.9	20.2	20.5