

2021 SCN PRELIMINARY I

Strain	FPhlm	Parentage	Gen.		SCN Resistance source
			Comp.	Traits	
1 MN1410	WGbf	Unknown	F5		None
2 ND Dickey (0)	PGy	Pioneer 91M10 x Sheyenne	F4		none
3 U11-917032 (SCN)	PTbl	LD02-4485 x U03-100612	F6		PI 88788
4 U14-103015	PLtbl	LG07-2249 x LG07-6944	F5	Diversity	None
5 E18169	PGibl	E16804-1 x LD02-4485	F5	High oleic	PI 88788
6 E19314T	PGy	E16902 x E11128T	F5		PI 88789
7 E19323T	PGy	E16902 x E11128T	F5	high protein	PI 88789
8 E19669	PGibl	E12076T x E16830-1	F5	High oleic	PI 88788
9 E19675	P+WGy/gr	E12076T x E16830-1	F5	High oleic	PI 88788
10 M15-115060	PLtbr		F5	BSRCN	PI 88788
11 M15-115078	P+WLtbl		F5	BSRCN	PI 88788
12 M15-159069	PLtbl/br	M07-292111 x MN0107	F5	EARLYCN	PI 88788
13 M15-159100	PTbr	M07-292111 x MN0107	F5	EARLYCN	PI 88788
14 M15-159120	WTgr	M07-292111 x MN0107	F5	EARLYCN	PI 88788
15 M15-179024	WMy	ND10-3427 x M08-609011	F5	IDC-SCN	PI 88788
16 M15-221030	P+WG+Ty	ND10-3464 x M07-296048	F5		PI 88788
17 M15-221047	P+WTbr	ND10-3464 x M07-296048	F5		PI 88788
18 M15-222019	WGbf	ND10-3464 x U11-917032	F5		PI 88788
19 M15-273094	P+WTbr	MSC09-776063 x M10-236018	F5	HI OLICN	PI567516C
20 M15-280072	PTbl/br	M10-237089 x MSC09-774074	F5	HIOCN	PI567516C
21 OAC 19-61C-SCN	PGy	OAC Prescott x S23-T5	F4		PI88788
22 ORC 6218N	PGy	OAC Prosper x S18-R6	F5	Food grade	PI88788
23 ORC 8518N	PGy	OAC Prosper x OX-111	F5	Food grade	PI88788
24 U19-903124	PGy/gr	ORC_3713N x U14-924158	F5	IDC	PI 88788,437654
25 U19-909037	PGbf	ORC_3713N x U14-910097	F5	Rps	PI 88788,437654
26 U19-911031	PGbf/ibl	ORC_3713N x U14-925152	F5	IDC	PI 88788,437654
27 U19-913011	PGy/gr	ORC_3713N x U14-925152	F5	IDC	PI 88788,437654

2021 SCN PRELIMINARY I

Entry	IL SCN screening									
	cyst counts			HG 0		cyst counts			HG 2.5.7	
	rep1	rep2	rep3	FI	rating	rep1	rep2	rep3	FI	rating
1 MN1410	No data available					201	268	275	88	NR
2 ND Dickey (0)						391	194	279	106	NR
3 U11-917032 (SCN)						211	137	119	57	LR
4 U14-103015						201	289	288	95	NR
5 E18169						116	16	244	46	redo
6 E19314T						224	337	282	103	NR
7 E19323T						4*	93	237	61	redo
8 E19669						380	363	320	130	NR
9 E19675						204	320	231	93	NR
10 M15-115060						33	39	195	33	redo
11 M15-115078						107	161	141	50	LR
12 M15-159069						309	239	291	103	NR
13 M15-159100						36	38	97	21	R
14 M15-159120						75	24	91	23	R
15 M15-179024						102	167	122	48	LR
16 M15-221030						143	69	110	40	LR
17 M15-221047						229	157	140	65	NR
18 M15-222019						181	190	111	59	LR
19 M15-273094						265	352	268	109	NR
20 M15-280072						121	112	188	52	LR
21 OAC 19-61C-SCN						246	312	232	97	NR
22 ORC 6218N						125	118	274	63	NR
23 ORC 8518N						150	313	303	94	NR
24 U19-903124						69	37	22	16	R
25 U19-909037						32	4	34	9	HR
26 U19-911031						29	4	15	6	HR
27 U19-913011						136	225	109	58	LR

(*)=small root, (.)=missing sample, (**)=rep data too variable to rate

2021 SCN PRELIMINARY I

Predicted resistance genes based on SNP marker analysis						
Entry	SCN	Iron Chlorosis	Phytophthora	Brown stem rot	Frogeye leaf spot	Stem canker
1 MN1410	no marker data available					
2 ND Dickey (0)	no marker data available					
3 U11-917032 (SCN)	no marker data available					
4 U14-103015	no marker data available					
5 E18169	none	Ch13	none	Het	S	R
6 E19314T	Rhg1-PI88788	Ch13	Rps1k	R	S	R
7 E19323T	Rhg1-PI88788	LgN+Ch13	none	R	S	R
8 E19669	none	Ch13, Het LgA	Rps1k	R	S	S
9 E19675	none	LgA1+LgN+Ch13	Rps1k	R	S	S
10 M15-115060	Rhg1-PI88788	LgA+Ch13, Het LgN	Het Rps1k	Het	S	R
11 M15-115078	Het Rhg1-PI88788	LgA1	none	R	S	R
12 M15-159069	Het Rhg1-PI88788	Ch13, Het LgA+LgN	none	Het	S	R
13 M15-159100	Rhg1-PI88788	LgA1+LgN+Ch13	none	R	S	R
14 M15-159120	Rhg1-PI88788	LgA1+LgN+Ch13	none	R	S	R
15 M15-179024	Rhg1-PI88788	Ch13	Rps6	R	S	R
16 M15-221030	Rhg1-PI88788	LgN+Ch13	none	Het	S	R
17 M15-221047	Rhg1-PI88788	Ch13	none	R	S	R
18 M15-222019	Rhg1-PI88788	Ch13	none	R	S	R
19 M15-273094	none	Ch13		R	R	R
20 M15-280072	Het Rhg1-PI88788	LgA1+Ch13	Het Rps1a	.	S	R
21 OAC 19-61C-SCN	Het Rhg1-PI88788	Ch13	Het Rps1c	S	S	R
22 ORC 6218N	Rhg1-PI88788	LgN+Ch13	none	Het	S	R
23 ORC 8518N	Rhg1-PI88788	LgN+Ch13	none	S	S	R
24 U19-903124	Rhg1-Peking	Ch13	Rps1c	R	S	R
25 U19-909037	Rhg1-Peking+Rhg4	Ch13	none	S	S	R
26 U19-911031	Rhg1-Peking+Rhg4	LgN+Ch13	none	R	S	R
27 U19-913011	Rhg1-PI88788	Ch13	Rps1c	R	S	R

2021 SCN PRELIMINARY I

2021 Summary

2022 Summary														
		Yield						Seed						
		All		Infested		Non-infested		Maturity	Lodging	Height	weight	quality	protein	oil
Entry		bu/a	rank	bu/a	rank	bu/a	rank	date	score	in.	g/100	score	@13%	@13%
	Locations	5		3*		2		6*	7	7	7	7	7	7
1	MN1410	47.4	22	48.2	25	52.6	13	917	1.5	34	16.2	1.6	35.6	18.7
2	ND Dickey (0)	48.1	19	50.7	18	50.5	18	-5	1.3	32	16.5	1.9	35.3	18.7
3	U11-917032 (SCN)	58.7	2	61.6	3	60.8	2	4	2.0	33	16.0	1.6	34.0	19.2
4	U14-103015	56.2	4	58.9	4	58.6	4	5	1.6	32	16.5	1.4	34.2	19.0
5	E18169	47.2	23	49.6	23	49.9	21	4	1.6	32	15.9	1.5	34.5	18.7
6	E19314T	59.0	1	65.7	1	55.3	10	6	1.8	35	20.6	1.5	35.9	17.5
7	E19323T	54.3	8	57.3	6	56.1	8	10	1.9	36	20.4	1.4	35.4	17.8
8	E19669	44.6	26	50.0	21	42.9	26	3	2.0	37	15.4	1.9	37.0	17.2
9	E19675	44.6	25	49.8	22	43.2	25	2	2.4	33	16.0	1.9	36.6	17.4
10	M15-115060	49.9	15	54.0	13	50.1	20	-1	2.6	36	15.1	1.4	34.6	18.6
11	M15-115078	47.6	21	50.1	20	50.3	19	5	2.5	34	14.3	1.4	34.6	18.8
12	M15-159069	54.7	6	58.5	5	55.4	9	4	2.0	32	14.9	1.6	34.9	19.0
13	M15-159100	51.0	10	55.1	9	51.3	16	6	2.5	41	15.5	1.3	34.6	19.0
14	M15-159120	50.5	12	52.4	16	53.9	12	3	1.4	31	14.2	1.5	35.3	18.3
15	M15-179024	50.9	11	55.0	10	51.3	16	0	1.7	33	15.1	1.6	34.7	18.5
16	M15-221030	45.4	24	48.0	26	47.8	23	-3	1.5	33	16.7	1.6	35.0	18.8
17	M15-221047	42.8	27	47.6	27	41.9	27	-5	1.6	29	14.8	1.3	36.0	18.6
18	M15-222019	50.1	14	54.5	12	49.9	21	0	2.4	35	15.5	1.4	34.6	19.6
19	M15-273094	48.9	18	50.9	17	52.3	14	8	1.5	40	15.9	1.3	35.9	17.8
20	M15-280072	50.2	13	53.6	14	51.6	15	9	2.1	39	17.1	1.7	35.0	18.1
21	OAC 19-61C-SCN	49.4	17	50.7	19	54.6	11	5	1.5	35	18.5	1.7	35.0	18.4
22	ORC 6218N	49.5	16	48.2	24	58.6	4	2	1.7	32	19.3	1.6	35.9	17.2
23	ORC 8518N	55.5	5	56.1	8	61.7	1	9	2.2	36	19.0	1.4	36.7	17.0
24	U19-903124	52.9	9	54.5	11	56.8	7	9	1.7	37	16.4	1.6	31.9	19.4
25	U19-909037	47.6	20	53.4	15	46.0	24	9	1.6	31	16.9	1.4	34.0	19.0
26	U19-911031	58.6	3	62.5	2	59.9	3	7	1.6	38	17.5	1.4	33.1	19.9
27	U19-913011	54.5	7	56.5	7	58.6	4	6	1.7	36	17.6	1.6	33.6	19.4
Mean		50.7		53.8		52.7		3.9	1.9	34.5	16.6	1.5	35.0	18.5
C.V. %		14.4		14.2		9.4		14.5	35.2	12.4				
LSD(2-sided,.05)		5.3		7.2		7.0		1.9	0.4	3.0				
Replications		11		7		4								

*Decatur, MI, Lamberton and Rosemount, MN yield data and Lamberton maturity data not included in means.

2021 SCN PRELIMINARY I

Yield (bu/a)								
	Urbana	Decatur	Lamberton	Rosemount	Waseca	Thamesville	St. Pauls	Woodstock
	IL	MI	MN	MN	MN	ON	ON	ON
SCN HG Type	Inf	Inf	Inf	Inf	Inf	Inf	NI	NI
Strain								
1 MN1410	42.5	12.3	33.6	27.1	59.6	49.3	49.9	55.3
2 ND Dickey (0)	42.1	13.9	29.1	10.2	60.7	56.1	52.8	48.2
3 U11-917032 (SCN)	49.4	46.0	21.9	30.6	74.0	68.1	60.0	61.5
4 U14-103015	52.9	19.3	14.9	23.1	63.6	66.9	58.6	58.5
5 E18169	45.1	35.8	29.8	32.4	57.5	53.0	46.2	53.6
6 E19314T	57.0	50.4	43.1	39.0	70.4	76.5	52.6	58.1
7 E19323T	57.2	44.0	30.8	35.0	65.9	55.5	56.6	55.7
8 E19669	44.5	30.2	29.5	24.0	54.8	57.2	43.2	42.6
9 E19675	40.5	19.0	22.1	23.6	52.4	63.3	42.7	43.7
10 M15-115060	46.7	44.6	37.9	26.8	60.3	61.6	49.4	50.8
11 M15-115078	45.8	44.0	23.0	29.4	62.1	49.1	43.6	57.0
12 M15-159069	48.4	40.2	35.8	27.6	65.2	68.6	52.5	58.4
13 M15-159100	48.0	44.7	39.3	44.8	63.0	61.0	48.9	53.8
14 M15-159120	43.4	48.0	24.8	40.5	64.2	56.3	48.9	58.9
15 M15-179024	46.5	39.6	29.0	28.9	63.0	62.1	48.4	54.2
16 M15-221030	40.5	31.2	23.8	37.9	64.6	45.6	50.1	45.6
17 M15-221047	37.3	27.7	21.7	17.8	57.8	54.5	45.3	38.6
18 M15-222019	47.4	42.9	23.3	27.2	60.5	62.4	42.8	57.0
19 M15-273094	44.6	36.8	21.3	31.5	59.8	55.0	49.3	55.3
20 M15-280072	49.8	50.2	22.8	36.3	56.2	61.5	48.6	54.6
21 OAC 19-61C-SCN	45.1	40.3	23.3	16.2	68.4	47.8	52.6	56.6
22 ORC 6218N	48.5	32.0	24.6	26.7	55.4	49.9	59.4	57.8
23 ORC 8518N	52.6	50.6	29.7	31.8	60.1	64.8	61.0	62.4
24 U19-903124	49.1	40.2	22.1	33.3	63.7	57.5	55.9	57.8
25 U19-909037	40.8	29.7	27.8	19.6	65.8	63.0	45.8	46.3
26 U19-911031	47.5	58.3	36.9	37.4	65.2	75.2	55.3	64.5
27 U19-913011	54.6	32.7	26.4	39.4	61.0	63.0	56.3	61.0
Mean	46.9	37.2	27.7	29.6	62.0	59.4	51.0	54.3
C.V. %	6.5	24.0	33.2	13.4	6.9	13.0	9.1	9.5
LSD(2-sided,.05)	6.3	17.5	19.2	8.0	6.9	15.8	9.6	10.6
Replications	2	3	3	3	3	2	3	3
Row spacing (in.)	30	30	30	30	30	30	13	13

2021 SCN PRELIMINARY I

SCN HG Type	Yield (rank)							
	Urbana	Decatur	Lamberton	Rosemount	Waseca	Thamesville	St. Pauls	Woodstock
	IL	MI	MN	MN	MN	ON	ON	ON
Strain	Inf	Inf	Inf	Inf	Inf	Inf	NI	NI
1 MN1410	22	27	6	18	21	24	14	15
2 ND Dickey (0)	23	26	11	27	16	18	9	22
3 U11-917032 (SCN)	7	6	24	13	1	4	2	3
4 U14-103015	4	24	27	23	11	5	4	6
5 E18169	17	17	8	10	23	22	21	20
6 E19314T	2	3	1	4	2	1	11	8
7 E19323T	1	9	7	8	4	19	5	14
8 E19669	20	21	10	21	26	16	25	26
9 E19675	26	25	22	22	27	7	27	25
10 M15-115060	14	8	3	19	18	12	15	21
11 M15-115078	16	10	20	14	14	25	24	11
12 M15-159069	10	13	5	16	6	3	12	7
13 M15-159100	11	7	2	1	13	14	17	19
14 M15-159120	21	5	15	2	9	17	17	5
15 M15-179024	15	15	12	15	12	11	20	18
16 M15-221030	25	20	17	5	8	27	13	24
17 M15-221047	27	23	25	25	22	21	23	27
18 M15-222019	13	11	18	17	17	10	26	11
19 M15-273094	19	16	26	12	20	20	16	15
20 M15-280072	6	4	21	7	24	13	19	17
21 OAC 19-61C-SCN	17	12	19	26	3	26	11	13
22 ORC 6218N	9	19	16	20	25	23	3	9
23 ORC 8518N	5	2	9	11	19	6	1	2
24 U19-903124	8	14	23	9	10	15	7	9
25 U19-909037	24	22	13	24	5	8	22	23
26 U19-911031	12	1	4	6	7	2	8	1
27 U19-913011	3	18	14	3	15	9	6	4

2021 SCN PRELIMINARY I

Maturity								
	Urbana	Decatur	Lamberton	Rosemount	Waseca	Thamesville	St. Pauls	Woodstock
	IL	MI	MN	MN	MN	ON	ON	ON
SCN HG Type	Inf	Inf	Inf	Inf	Inf	Inf	NI	NI
Strain								
1 MN1410	8/31		9/20	9/17	9/13	9/16	9/21	9/29
2 ND Dickey (0)	-4		-1	-3	-3	-3	-8	-9
3 U11-917032 (SCN)	7		-5	8	5	3	-1	0
4 U14-103015	8		-1	11	4	4	0	1
5 E18169	9		-4	7	7	3	0	1
6 E19314T	9		9	9	12	2	-1	2
7 E19323T	12		-1	10	12	12	10	3
8 E19669	3		-4	6	4	4	2	0
9 E19675	1		7	1	5	1	-2	4
10 M15-115060	3		-4	-1	1	-3	-3	-4
11 M15-115078	7		-1	5	6	7	6	0
12 M15-159069	5		-3	8	6	7	-2	0
13 M15-159100	8		4	11	10	5	0	0
14 M15-159120	6		-2	7	8	2	-2	-4
15 M15-179024	4		-12	-1	2	3	-4	-7
16 M15-221030	0		-12	0	1	-3	-5	-9
17 M15-221047	-4		-9	0	-2	-3	-8	-12
18 M15-222019	3		-6	1	1	-1	-4	0
19 M15-273094	8		2	13	9	8	7	2
20 M15-280072	12		-12	12	6	11	12	3
21 OAC 19-61C-SCN	6		-2	8	6	7	4	2
22 ORC 6218N	5		-10	3	4	6	-2	-1
23 ORC 8518N	13		-11	11	9	6	10	3
24 U19-903124	9		3	11	12	11	6	4
25 U19-909037	8		-1	12	15	6	11	3
26 U19-911031	7		4	6	9	10	9	2
27 U19-913011	10		-2	9	9	8	-1	3
Planted	5/24	5/07	5/16	5/26	5/11	5/31	5/17	6/01

2021 SCN PRELIMINARY I

Lodging (score)								
	Urbana	Decatur	Lamberton	Rosemount	Waseca	Thamesville	St. Pauls	Woodstock
	IL	MI	MN	MN	MN	ON	ON	ON
SCN HG Type	Inf	Inf	Inf	Inf	Inf	Inf	NI	NI
Strain								
1 MN1410	1.8		1.0	2.0	2.0	1.0	1.5	1.3
2 ND Dickey (0)	1.3		1.0	1.5	2.0	1.0	1.5	1.0
3 U11-917032 (SCN)	2.0		1.5	2.5	3.0	2.0	1.3	1.8
4 U14-103015	2.0		1.0	2.0	2.0	1.5	1.0	1.5
5 E18169	1.5		1.0	2.0	2.0	1.5	1.8	1.3
6 E19314T	1.8		2.0	2.5	2.0	1.5	1.3	1.5
7 E19323T	2.3		1.5	3.0	2.0	1.5	1.3	1.8
8 E19669	2.8		1.0	2.0	2.7	1.5	1.8	2.0
9 E19675	2.5		1.5	2.0	3.0	1.5	3.3	3.3
10 M15-115060	3.0		2.0	3.0	3.0	2.5	1.8	3.0
11 M15-115078	3.0		1.0	3.0	3.3	2.0	2.3	2.8
12 M15-159069	3.0		1.0	2.5	2.7	1.0	1.0	3.0
13 M15-159100	3.0		2.0	3.0	3.0	2.5	2.5	1.8
14 M15-159120	1.3		1.0	2.0	2.3	1.0	1.3	1.0
15 M15-179024	2.0		1.0	2.5	2.7	1.5	1.3	1.0
16 M15-221030	1.8		1.0	2.0	2.3	1.5	1.0	1.0
17 M15-221047	2.0		1.0	2.0	2.3	1.5	1.3	1.0
18 M15-222019	4.0		1.0	2.5	3.0	3.0	1.8	1.8
19 M15-273094	1.5		1.0	2.0	2.0	1.5	1.0	1.8
20 M15-280072	1.8		1.5	3.0	2.3	1.0	3.5	1.3
21 OAC 19-61C-SCN	1.3		1.0	2.5	2.0	1.5	1.0	1.3
22 ORC 6218N	1.8		1.0	3.0	3.0	1.0	1.0	1.3
23 ORC 8518N	2.5		1.0	3.0	3.0	1.5	2.0	2.3
24 U19-903124	1.5		1.0	3.0	2.3	1.0	1.3	1.5
25 U19-909037	1.0		1.0	3.0	2.0	1.0	2.0	1.5
26 U19-911031	1.0		1.5	2.5	2.0	1.5	1.3	1.5
27 U19-913011	1.8		1.0	3.0	2.0	1.5	1.0	1.3

2021 SCN PRELIMINARY I

Height (inches)								
	Urbana	Decatur	Lamberton	Rosemount	Waseca	Thamesville	St. Pauls	Woodstock
	IL	MI	MN	MN	MN	ON	ON	ON
SCN HG Type	Inf	Inf	Inf	Inf	Inf	Inf	NI	NI
Strain								
1 MN1410	30		27	29	40	36	38	39
2 ND Dickey (0)	26		32	29	35	32	36	34
3 U11-917032 (SCN)	29		28	28	38	37	37	33
4 U14-103015	28		25	28	37	34	38	35
5 E18169	28		27	28	35	34	38	35
6 E19314T	31		30	30	35	42	40	35
7 E19323T	35		32	36	40	34	38	37
8 E19669	32		32	34	42	41	41	39
9 E19675	28		28	31	32	41	38	35
10 M15-115060	31		34	32	39	39	40	39
11 M15-115078	29		28	33	40	34	39	36
12 M15-159069	26		32	29	33	36	34	32
13 M15-159100	38		42	39	49	39	43	39
14 M15-159120	25		29	30	35	34	34	32
15 M15-179024	29		29	32	35	36	35	36
16 M15-221030	29		29	31	38	31	38	34
17 M15-221047	25		28	26	34	31	31	28
18 M15-222019	31		27	32	40	37	40	37
19 M15-273094	38		26	41	49	39	47	42
20 M15-280072	35		31	34	47	39	46	40
21 OAC 19-61C-SCN	27		30	30	41	34	44	36
22 ORC 6218N	27		29	30	35	35	36	34
23 ORC 8518N	31		31	32	41	39	42	39
24 U19-903124	34		33	35	41	37	37	39
25 U19-909037	28		29	29	33	35	33	34
26 U19-911031	31		35	36	43	42	41	39
27 U19-913011	31		26	35	44	36	41	39

2021 SCN PRELIMINARY I

Seed Weight (g/100)								
	Urbana	Decatur	Lamberton	Rosemount	Waseca	Thamesville	St. Pauls	Woodstock
	IL	MI	MN	MN	MN	ON	ON	ON
SCN HG Type	Inf	Inf	Inf	Inf	Inf	Inf	NI	NI
Strain								
1 MN1410	15.6		12.7	15.2	15.5	19.2	17.4	17.6
2 ND Dickey (0)	15.6		11.6	15.1	17.9	20.5	17.0	18.0
3 U11-917032 (SCN)	13.8		13.1	14.6	16.6	18.6	18.0	17.4
4 U14-103015	15.3		15.3	16.2	17.1	18.0	16.6	17.0
5 E18169	15.2		13.5	14.5	17.4	17.6	15.6	17.2
6 E19314T	17.2		18.2	19.0	20.3	23.0	22.9	23.6
7 E19323T	17.7		17.2	18.9	19.7	21.0	24.4	24.1
8 E19669	14.5		10.9	13.8	16.3	17.5	17.2	17.7
9 E19675	14.6		10.2	14.3	17.6	19.2	18.0	18.1
10 M15-115060	13.9		12.1	13.8	16.5	17.2	15.7	16.2
11 M15-115078	13.8		10.7	14.0	15.9	15.5	14.7	15.6
12 M15-159069	13.1		12.2	13.8	15.0	16.7	16.1	17.5
13 M15-159100	13.2		13.6	16.3	16.0	17.5	16.5	15.5
14 M15-159120	12.8		12.0	14.6	15.5	16.0	14.7	13.8
15 M15-179024	13.8		11.8	14.4	15.8	17.5	16.2	16.0
16 M15-221030	15.6		14.0	15.4	18.1	17.8	17.7	18.3
17 M15-221047	13.7		11.6	14.4	16.1	17.2	15.6	14.9
18 M15-222019	13.3		11.5	15.2	16.5	19.2	15.8	16.8
19 M15-273094	14.1		15.2	15.9	16.1	16.4	16.4	17.0
20 M15-280072	14.2		15.3	17.6	17.1	17.4	19.2	18.8
21 OAC 19-61C-SCN	16.6		18.1	17.6	19.0	20.1	18.4	19.4
22 ORC 6218N	18.4		17.3	18.6	19.2	21.3	19.7	20.9
23 ORC 8518N	17.4		18.5	18.3	18.0	20.0	20.3	20.4
24 U19-903124	14.0		15.4	16.6	17.1	17.1	17.4	17.3
25 U19-909037	15.0		16.6	17.0	17.0	17.4	17.8	17.2
26 U19-911031	15.4		15.4	16.4	17.9	20.8	18.2	18.2
27 U19-913011	16.4		15.5	16.7	18.2	19.1	17.7	19.7

2021 SCN PRELIMINARY I

Seed Quality (score)								
	Urbana	Decatur	Lamberton	Rosemount	Waseca	Thamesville	St. Pauls	Woodstock
	IL	MI	MN	MN	MN	ON	ON	ON
SCN HG Type	Inf	Inf	Inf	Inf	Inf	Inf	NI	NI
Strain								
1 MN1410	1.0		3.0	2.0	1.0	1.0	2.0	1.5
2 ND Dickey (0)	2.0		3.0	3.0	1.0	1.0	2.0	1.5
3 U11-917032 (SCN)	2.0		2.0	1.0	2.0	1.0	1.5	1.5
4 U14-103015	2.0		2.0	1.0	1.0	1.0	1.5	1.5
5 E18169	2.0		2.0	1.0	1.0	1.0	2.0	1.5
6 E19314T	2.0		2.0	2.0	1.0	1.0	1.5	1.0
7 E19323T	2.0		2.0	1.0	1.0	1.0	1.5	1.5
8 E19669	2.0		3.0	2.0	2.0	1.0	2.0	1.5
9 E19675	2.0		2.0	2.0	2.0	1.0	2.5	1.5
10 M15-115060	2.0		2.0	1.0	1.0	1.0	1.5	1.5
11 M15-115078	1.0		2.0	1.0	1.0	1.0	2.0	1.5
12 M15-159069	1.0		3.0	2.0	1.0	1.0	1.5	1.5
13 M15-159100	1.0		2.0	1.0	1.0	1.0	1.5	1.5
14 M15-159120	2.0		2.0	1.0	1.0	1.0	2.0	1.5
15 M15-179024	2.0		2.0	2.0	1.0	1.0	2.0	1.5
16 M15-221030	2.0		3.0	1.0	1.0	1.0	2.0	1.5
17 M15-221047	1.0		2.0	1.0	1.0	1.0	1.5	1.5
18 M15-222019	1.0		2.0	1.0	1.0	1.0	2.0	1.5
19 M15-273094	2.0		1.0	1.0	1.0	1.0	1.5	1.5
20 M15-280072	3.0		2.0	1.0	1.0	1.0	2.5	1.5
21 OAC 19-61C-SCN	2.0		3.0	2.0	1.0	1.0	1.5	1.5
22 ORC 6218N	2.0		2.0	1.0	2.0	1.0	1.5	1.5
23 ORC 8518N	2.0		2.0	1.0	1.0	1.0	1.5	1.0
24 U19-903124	3.0		2.0	1.0	2.0	1.0	1.5	1.0
25 U19-909037	2.0		2.0	1.0	1.0	1.0	1.5	1.5
26 U19-911031	2.0		2.0	1.0	1.0	1.0	1.5	1.5
27 U19-913011	2.0		3.0	1.0	1.0	1.0	1.5	1.5

2021 SCN PRELIMINARY I

Protein (%)								
	Urbana	Decatur	Lamberton	Rosemount	Waseca	Thamesville	St. Pauls	Woodstock
	IL	MI	MN	MN	MN	ON	ON	ON
SCN HG Type	Inf	Inf	Inf	Inf	Inf	Inf	NI	NI
Strain								
1 MN1410	36.5		35.7	35.3	33.1	36.9	36.2	35.4
2 ND Dickey (0)	36.7		35.8	35.5	33.0	35.6	35.8	34.9
3 U11-917032 (SCN)	33.6		32.9	34.2	31.6	35.4	35.9	34.3
4 U14-103015	36.3		34.1	32.1	31.3	36.1	35.0	34.2
5 E18169	34.9		33.5	32.5	32.8	36.9	35.1	35.9
6 E19314T	36.6		34.8	35.4	33.9	37.3	37.0	36.4
7 E19323T	34.8		35.0	34.5	33.5	36.3	37.4	36.1
8 E19669	37.7		36.6	37.0	35.8	38.0	36.7	37.0
9 E19675	37.3		36.5	36.4	35.1	38.5	36.1	36.3
10 M15-115060	34.9		33.0	34.7	32.6	35.9	35.2	35.7
11 M15-115078	34.1		33.8	33.6	33.2	35.3	36.8	35.7
12 M15-159069	35.6		32.6	36.1	31.4	36.3	37.1	35.0
13 M15-159100	34.2		33.7	35.0	32.5	36.7	35.7	34.6
14 M15-159120	36.6		35.0	34.9	32.3	36.6	36.2	35.9
15 M15-179024	34.8		34.7	33.1	33.3	36.0	36.2	34.9
16 M15-221030	34.7		35.8	34.0	33.1	36.0	36.4	35.2
17 M15-221047	37.1		35.9	35.5	33.8	37.3	36.9	35.4
18 M15-222019	35.1		33.8	33.2	32.2	37.0	36.7	34.2
19 M15-273094	35.4		36.2	37.4	34.0	37.0	35.6	35.7
20 M15-280072	36.3		35.9	36.6	32.5	35.8	36.0	32.1
21 OAC 19-61C-SCN	35.7		35.6	34.6	32.1	35.9	36.0	34.8
22 ORC 6218N	36.9		36.6	35.3	33.9	36.3	36.0	36.2
23 ORC 8518N	37.4		37.6	37.7	34.5	37.4	36.9	35.7
24 U19-903124	30.9		32.5	33.5	30.0	33.1	32.5	30.7
25 U19-909037	33.4		35.1	35.2	31.2	35.3	35.1	32.1
26 U19-911031	34.1		33.8	31.9	31.1	35.5	33.7	31.9
27 U19-913011	32.3		33.7	33.9	31.7	34.9	35.1	33.6

2021 SCN PRELIMINARY I

Oil (%)								
	Urbana	Decatur	Lamberton	Rosemount	Waseca	Thamesville	St. Pauls	Woodstock
	IL	MI	MN	MN	MN	ON	ON	ON
SCN HG Type	Inf	Inf	Inf	Inf	Inf	Inf	NI	NI
Strain								
1 MN1410	18.8		18.6	18.5	19.5	18.8	17.9	18.8
2 ND Dickey (0)	18.5		17.7	18.1	19.9	19.8	17.9	19.1
3 U11-917032 (SCN)	20.2		19.2	18.8	20.5	19.3	18.1	18.4
4 U14-103015	19.1		19.2	18.0	20.4	19.9	18.0	18.4
5 E18169	19.1		19.9	18.5	18.8	19.1	17.5	17.7
6 E19314T	18.5		17.7	17.1	18.0	17.6	16.8	16.9
7 E19323T	19.1		17.7	17.9	18.1	18.5	16.5	16.9
8 E19669	17.5		18.0	17.1	17.8	17.6	16.7	15.8
9 E19675	18.0		18.4	16.9	18.4	17.2	16.3	16.6
10 M15-115060	18.5		19.9	18.4	19.3	19.1	17.8	17.3
11 M15-115078	18.7		18.6	19.7	19.3	19.5	17.6	17.9
12 M15-159069	19.2		20.6	17.5	19.8	18.8	18.6	18.0
13 M15-159100	20.4		18.8	18.1	19.2	19.4	18.7	18.4
14 M15-159120	18.5		18.3	17.2	19.4	19.0	18.1	17.4
15 M15-179024	19.1		17.9	18.9	18.4	18.9	18.0	18.1
16 M15-221030	19.8		18.5	18.5	19.7	18.9	17.4	18.4
17 M15-221047	18.2		18.4	18.3	19.0	19.5	18.0	19.0
18 M15-222019	19.6		19.6	20.0	20.8	19.9	18.3	18.7
19 M15-273094	18.8		18.2	15.7	18.1	18.5	17.7	17.4
20 M15-280072	18.1		17.2	16.9	19.1	18.9	17.6	18.5
21 OAC 19-61C-SCN	18.4		18.4	18.4	19.6	18.8	17.5	17.5
22 ORC 6218N	17.7		16.4	16.7	17.9	18.3	16.9	16.3
23 ORC 8518N	17.1		16.7	15.9	17.8	18.3	16.9	16.5
24 U19-903124	20.8		17.7	18.4	20.5	20.8	18.9	19.1
25 U19-909037	19.9		18.9	18.7	19.9	19.5	18.2	18.2
26 U19-911031	20.4		20.0	19.5	20.8	20.2	18.3	19.8
27 U19-913011	20.9		19.6	18.8	19.8	19.8	18.3	18.5