

2020 SCN PRELIMINARY I

Strain	FPhm	Parentage	Gen. Comp.	Traits	SCN Resistance source
1 MN1410	WGbf	Unknown	F5		None
2 ND Dickey (0)	PGy	P.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 M14-109088	PTy	M07-260028 x ND10-4423	F5		PI 88788
6 M14-116014	PTbl	AR12-127091 x U09-105007	F5		PI 88788
7 M14-118001	PGy	MN1701CN x AR12-128102	F5		PI 88788
8 M14-118010	PT+Gy+g	MN1701CN x AR12-128102	F5		PI 88788
9 M14-122011	P+Wbl	M08-365038 x IA1026	F5		PI 88788
10 M14-122031	PTbl	M08-365038 x IA1026	F5		PI 88788
11 M14-122035	PTy	M08-365038 x IA1026	F5		PI 88788
12 M14-122038	WTbr	M08-365038 x IA1026	F5		PI 88788
13 M14-126012	WTy	M07-278126 x M07-297007	F5		PI 88788
14 M14-129066	PGibl	M08-434072 x LD10-2715	F5		PI 88788
15 M14-129109	PGibl	M08-434072 x LD10-2715	F5		PI 88788
16 M14-224051	PTbl	MN1410 x PI447003A	F5	Diversity	PI 88788
17 M14-224081	PGbf+ibl	MN1410 x PI447003A	F5	Diversity	PI 88788
18 M14-224084	PT+Ltbr	MN1410 x PI447003A	F5	Diversity	PI 88788
19 OAC 17-84C-SCN	WGy	SeCan 10-18C x S23-T5	F4	SCN	PI88788
20 ORC 3819N	WTy	RCAT 1003N x RCAT 7612N	F5	Food-grade	PI 88788
21 U18-613247	PLtbl	LD10-10198 x U11-911079	F5	Expected Rps resistance	PI 88788
22 U18-903003	PLtbl	LD10-10198 x U11-911079	F5	Expected Rps resistance	PI 88788
23 U18-916036	PLtg	LD10-10198 x U11-911079	F5	Expected Rps Resistance	PI 88788
24 U18-919004	PTbl	LD10-10198 x U11-917032	F5		PI 88788
25 U18-923030	PLtbl	U11-911079 x U11-917032	F5	Expected Rps resistance	PI 88788
26 U18-929040	PLtbl	LD12-3903 x U11-911079	F5	Expected Rps resistance	PI 88788

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Entry	IL SCN screening										MN
	cyst counts			HG 0		cyst counts			HG 2.5.7		IDC
	rep1	rep2	rep3	FI	rating	rep1	rep2	rep3	FI	rating	score
1 MN1410	37	29	44	25	MR	149	135	122	91	NR	1.3
2 ND Dickey (0)	83	62	49	55	LR	116	109	128	79	NR	1.5
3 U11-917032 (SCN)	16	12	9	11	R	101	104	118	73	NR	2.4
4 U14-103015	81	95	106	63	NR	67	43	72	29	MR	4.1
5 M14-109088	75	84	61	49	LR	54	61	59	39	MR	1.4
6 M14-116014	47	53	55	35	MR	108	116	122	78	NR	2.3
7 M14-118001	93	104	106	68	NR	105	119	96	72	NR	3.3
8 M14-118010	74	61	78	48	LR	131	127	125	86	NR	2.6
9 M14-122011	34	2*	0*	23	**	66	89	87	54	LR	2.0
10 M14-122031	16	12	12	9	HR	67	71	71	47	LR	2.5
11 M14-122035	25	29	12	15	R	60	121	105	64	NR	2.1
12 M14-122038	11	8	13	7	HR	66	67	76	47	LR	1.4
13 M14-126012	11	15	9	8	HR	34	53	58	33	MR	1.3
14 M14-129066	10	15	24	11	R	155	157	168	77	NR	1.5
15 M14-129109	93	83	101	62	NR	128	107	112	78	NR	1.4
16 M14-224051	38	32	31	23	R	52	81	44	40	LR	1.9
17 M14-224081	74	67	63	46	LR	52	59	63	39	MR	1.3
18 M14-224084	55	46	48	33	MR	107	114	120	77	NR	1.3
19 OAC 17-84C-SCN	21	28	22	20	R	35	53	47	30	MR	1.8
20 ORC 3819N	127	116	119	81	NR	102	67	111	63	NR	4.5
21 U18-613247	10	16	19	10	R	118	129	94	77	NR	2.0
22 U18-903003	8	11	7	6	HR	89	81	96	60	NR	2.3
23 U18-916036	26	19	37	18	R	67	79	58	46	LR	2.4
24 U18-919004	72	52	61	41	LR	108	81	113	68	NR	3.9
25 U18-923030	16	11	10	8	HR	81	92	72	55	LR	3.3
26 U18-929040	39	21	15	17	R	105	96	117	72	NR	2.3

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



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Yield (bu/a)

SCN HG Type	Decatur	Rosemount	Waseca	Thameville	Woodstock
	MI	MN	MN	ON	ON
	Inf	2.5.7	Inf	2.5.6.7	NI
Strain					
<b>1 MN1410</b>	16.8	44.6	51.1	63.0	42.0
<b>2 ND Dickey (0)</b>	21.1	44.2	52.7	62.0	51.7
<b>3 U11-917032 (SCN)</b>	30.8	49.9	60.8	81.2	53.8
<b>4 U14-103015</b>	21.9	41.0	54.9	72.6	47.6
<b>5 M14-109088</b>	.	49.2	42.9	52.7	32.1
<b>6 M14-116014</b>	30.2	47.3	52.8	67.9	50.6
<b>7 M14-118001</b>	26.2	49.8	57.9	64.8	49.0
<b>8 M14-118010</b>	19.7	49.0	53.2	60.8	40.4
<b>9 M14-122011</b>	30.4	40.3	52.8	80.0	50.9
<b>10 M14-122031</b>	30.5	40.1	63.6	79.6	60.2
<b>11 M14-122035</b>	31.1	45.8	71.4	81.7	53.3
<b>12 M14-122038</b>	27.0	41.9	51.4	71.2	46.2
<b>13 M14-126012</b>	28.5	45.4	55.7	77.1	50.8
<b>14 M14-129066</b>	28.7	44.3	58.8	78.8	51.1
<b>15 M14-129109</b>	24.8	37.4	56.7	71.7	44.6
<b>16 M14-224051</b>	22.3	47.7	52.0	73.0	57.5
<b>17 M14-224081</b>	26.3	43.6	52.9	74.6	43.7
<b>18 M14-224084</b>	29.6	47.2	56.4	63.2	57.4
<b>19 OAC 17-84C-SCN</b>	31.7	47.2	55.5	64.4	30.7
<b>20 ORC 3819N</b>	26.8	43.6	54.3	86.0	62.6
<b>21 U18-613247</b>	37.6	49.7	58.7	83.5	50.4
<b>22 U18-903003</b>	38.3	41.7	65.9	73.4	59.4
<b>23 U18-916036</b>	38.3	43.4	68.6	81.1	51.3
<b>24 U18-919004</b>	36.0	46.5	57.7	86.7	45.6
<b>25 U18-923030</b>	35.3	34.9	54.3	77.9	48.1
<b>26 U18-929040</b>	40.7	42.3	66.4	93.6	49.6
<b>Average</b>	28.4	44.5	56.9	73.9	49.2
<b>LSD(2-sided,.05)</b>	9.4	8.7	7.9	16.2	9.5
<b>C.V. %</b>	17.0	12.1	8.6	10.6	7.7
<b>Replications</b>	3	3	3	3	3
<b>Row spacing (in.)</b>	30	30	30	17	13

2020 SCN PRELIMINARY I

Yield (rank)

SCN HG Type	Decatur	Rosemount	Waseca	Thameville	Woodstock
	MI	MN	MN	ON	ON
Strain	Inf	2.5.7	Inf	2.5.6.7	NI
<b>1 MN1410</b>	25	13	25	23	23
<b>2 ND Dickey (0)</b>	23	15	22	24	8
<b>3 U11-917032 (SCN)</b>	9	1	6	6	6
<b>4 U14-103015</b>	22	22	15	16	18
<b>5 M14-109088</b>	26	4	26	26	25
<b>6 M14-116014</b>	12	7	21	19	13
<b>7 M14-118001</b>	19	2	9	20	16
<b>8 M14-118010</b>	24	5	18	25	24
<b>9 M14-122011</b>	11	23	20	8	11
<b>10 M14-122031</b>	10	24	5	9	2
<b>11 M14-122035</b>	8	11	1	5	7
<b>12 M14-122038</b>	16	20	24	18	19
<b>13 M14-126012</b>	15	12	13	12	12
<b>14 M14-129066</b>	14	14	7	10	10
<b>15 M14-129109</b>	20	25	11	17	21
<b>16 M14-224051</b>	21	6	23	15	4
<b>17 M14-224081</b>	18	16	19	13	22
<b>18 M14-224084</b>	13	8	12	22	5
<b>19 OAC 17-84C-SCN</b>	7	8	14	21	26
<b>20 ORC 3819N</b>	17	16	17	3	1
<b>21 U18-613247</b>	4	3	8	4	14
<b>22 U18-903003</b>	2	21	4	14	3
<b>23 U18-916036</b>	3	18	2	7	9
<b>24 U18-919004</b>	5	10	10	2	20
<b>25 U18-923030</b>	6	26	16	11	17
<b>26 U18-929040</b>	1	19	3	1	15

2020 SCN PRELIMINARY I

Maturity

	Decatur	Rosemount	Waseca	Thameville	Woodstock
	MI	MN	MN	ON	ON
SCN HG Type	Inf	2.5.7	Inf	2.5.6.7	NI
Strain					
1 MN1410		9/21	9/17		9/20
2 ND Dickey (0)		-7	-4		2
3 U11-917032 (SCN)		3	6		7
4 U14-103015		4	7		11
5 M14-109088		-19	-22		-13
6 M14-116014		2	2		5
7 M14-118001		4	7		7
8 M14-118010		2	2		3
9 M14-122011		3	5		5
10 M14-122031		4	7		4
11 M14-122035		5	9		6
12 M14-122038		4	3		5
13 M14-126012		2	4		9
14 M14-129066		3	9		11
15 M14-129109		4	9		11
16 M14-224051		-1	-1		4
17 M14-224081		-1	1		0
18 M14-224084		1	2		6
19 OAC 17-84C-SCN		5	7		9
20 ORC 3819N		3	4		7
21 U18-613247		9	12		15
22 U18-903003		7	9		8
23 U18-916036		7	10		9
24 U18-919004		8	8		7
25 U18-923030		5	7		8
26 U18-929040		9	12		13
Planted	5/03	5/29	5/08	5/23	5/26

## 2020 SCN PRELIMINARY I

## Lodging (score)

SCN HG Type	Decatur	Rosemount	Waseca	Thameville	Woodstock
	MI	MN	MN	ON	ON
Strain	Inf	2.5.7	Inf	2.5.6.7	NI
<b>1 MN1410</b>	1.0	1.0	2.0	1.0	1.0
<b>2 ND Dickey (0)</b>	1.0	1.0	2.0	1.0	1.9
<b>3 U11-917032 (SCN)</b>	1.0	1.3	2.0	1.5	1.5
<b>4 U14-103015</b>	1.0	1.0	2.0	1.0	1.5
<b>5 M14-109088</b>	1.0	1.3	2.0	3.0	1.2
<b>6 M14-116014</b>	1.0	1.0	2.0	1.0	1.6
<b>7 M14-118001</b>	1.0	1.0	2.0	1.5	1.0
<b>8 M14-118010</b>	1.3	1.5	2.0	2.0	1.6
<b>9 M14-122011</b>	1.0	1.3	2.0	2.0	1.0
<b>10 M14-122031</b>	1.0	1.0	2.0	1.0	1.0
<b>11 M14-122035</b>	1.0	1.0	2.0	1.5	1.0
<b>12 M14-122038</b>	1.0	1.0	2.0	2.0	1.0
<b>13 M14-126012</b>	1.0	1.7	1.3	1.5	2.3
<b>14 M14-129066</b>	1.0	1.3	2.0	2.5	1.8
<b>15 M14-129109</b>	1.0	2.0	2.3	2.0	1.8
<b>16 M14-224051</b>	1.0	2.7	2.0	2.0	1.8
<b>17 M14-224081</b>	1.0	1.0	2.0	1.5	1.0
<b>18 M14-224084</b>	1.0	1.3	2.0	1.0	2.5
<b>19 OAC 17-84C-SCN</b>	1.0	1.0	2.0	1.5	1.0
<b>20 ORC 3819N</b>	1.0	2.0	2.3	1.0	2.3
<b>21 U18-613247</b>	1.0	1.0	2.0	1.0	1.6
<b>22 U18-903003</b>	1.0	1.0	2.0	1.0	1.0
<b>23 U18-916036</b>	1.0	1.3	2.0	1.0	1.0
<b>24 U18-919004</b>	1.0	2.0	2.0	2.0	1.0
<b>25 U18-923030</b>	1.0	1.3	2.0	1.5	1.3
<b>26 U18-929040</b>	1.0	1.3	2.0	1.0	1.3

2020 SCN PRELIMINARY I

Height (inches)

	Decatur	Rosemount	Waseca	Thameville	Woodstock
	MI	MN	MN	ON	ON
SCN HG Type	Inf	2.5.7	Inf	2.5.6.7	NI
Strain					
1 MN1410	27	38	29	45	34
2 ND Dickey (0)	26	34	27	41	33
3 U11-917032 (SCN)	27	33	29	45	35
4 U14-103015	25	34	29	50	33
5 M14-109088	22	30	25	43	28
6 M14-116014	28	40	32	45	34
7 M14-118001	28	34	29	50	33
8 M14-118010	30	38	34	49	34
9 M14-122011	28	36	29	50	33
10 M14-122031	29	35	29	45	33
11 M14-122035	28	35	32	51	35
12 M14-122038	24	33	25	45	31
13 M14-126012	30	38	30	49	40
14 M14-129066	27	35	34	49	33
15 M14-129109	27	38	33	49	34
16 M14-224051	22	38	30	49	34
17 M14-224081	28	38	32	47	33
18 M14-224084	32	42	33	45	41
19 OAC 17-84C-SCN	27	36	30	47	31
20 ORC 3819N	29	40	36	51	34
21 U18-613247	34	43	40	53	42
22 U18-903003	32	37	35	51	37
23 U18-916036	33	39	34	47	38
24 U18-919004	29	32	32	49	32
25 U18-923030	32	33	30	47	32
26 U18-929040	30	37	32	54	32



## 2020 SCN PRELIMINARY I

## Seed Weight (g/100)

SCN HG Type	Decatur	Rosemount	Waseca	Thameville	Woodstock
	MI	MN	MN	ON	ON
	Inf	2.5.7	Inf	2.5.6.7	NI
Strain					
1 MN1410		15.7	14.7	18.3	17.7
2 ND Dickey (0)		16.8	18.1	17.3	17.8
3 U11-917032 (SCN)		15.0	15.4	18.0	16.4
4 U14-103015		14.2	14.7	16.7	16.8
5 M14-109088		13.3	12.7	15.1	14.6
6 M14-116014		15.1	17.6	20.2	19.8
7 M14-118001		14.2	13.9	15.6	15.9
8 M14-118010		.	13.8	14.6	14.6
9 M14-122011		14.1	14.5	17.9	16.7
10 M14-122031		15.1	16.4	18.5	18.2
11 M14-122035		15.4	17.3	19.3	18.5
12 M14-122038		15.1	18.3	17.8	18.3
13 M14-126012		15.0	15.3	17.4	15.4
14 M14-129066		15.6	15.2	18.1	17.3
15 M14-129109		13.9	14.2	16.8	13.7
16 M14-224051		13.6	13.1	17.2	16.3
17 M14-224081		15.0	14.2	16.6	15.1
18 M14-224084		13.3	14.1	16.3	16.4
19 OAC 17-84C-SCN		13.8	15.5	17.0	16.1
20 ORC 3819N		16.9	16.6	17.1	20.3
21 U18-613247		.	11.6	14.9	13.4
22 U18-903003		12.4	13.0	16.6	13.8
23 U18-916036		11.5	12.5	14.2	13.0
24 U18-919004		12.6	13.7	16.6	15.5
25 U18-923030		14.2	13.5	16.3	16.3
26 U18-929040		13.9	15.0	16.3	16.1

2020 SCN PRELIMINARY I

Seed Quality (score)

SCN HG Type	Decatur	Rosemount	Waseca	Thameville	Woodstock
	MI	MN	MN	ON	ON
	Inf	2.5.7	Inf	2.5.6.7	NI
Strain					
1 MN1410		1.0	1.0	1.0	1.5
2 ND Dickey (0)		1.0	1.0	1.0	1.0
3 U11-917032 (SCN)		1.0	1.0	1.0	1.5
4 U14-103015		1.0	1.0	1.0	1.5
5 M14-109088		1.0	1.0	1.0	1.5
6 M14-116014		1.0	1.0	1.0	1.5
7 M14-118001		1.0	1.0	1.0	1.0
8 M14-118010		.	1.0	1.0	1.5
9 M14-122011		1.0	2.0	1.0	1.5
10 M14-122031		1.0	1.0	1.0	1.5
11 M14-122035		1.0	1.0	1.0	1.5
12 M14-122038		1.0	2.0	1.0	1.5
13 M14-126012		1.0	1.0	1.0	1.5
14 M14-129066		1.0	1.0	1.0	1.5
15 M14-129109		1.0	1.0	1.0	1.5
16 M14-224051		1.0	1.0	1.0	1.5
17 M14-224081		1.0	1.0	1.0	1.5
18 M14-224084		1.0	1.0	1.0	1.5
19 OAC 17-84C-SCN		1.0	1.0	1.0	1.5
20 ORC 3819N		1.0	1.0	1.0	1.5
21 U18-613247		.	1.0	1.0	1.5
22 U18-903003		1.0	1.0	1.0	1.5
23 U18-916036		1.0	2.0	1.0	1.5
24 U18-919004		1.0	1.0	1.0	1.5
25 U18-923030		1.0	1.0	1.0	1.5
26 U18-929040		1.0	3.0	1.0	1.5

2020 SCN PRELIMINARY I

Protein (%)

SCN HG Type	Decatur MI Inf	Rosemount MN 2.5.7	Waseca MN Inf	Thameville ON 2.5.6.7	Woodstock ON NI
Strain					
1 MN1410		34.9	32.9	34.7	34.3
2 ND Dickey (0)		35.5	33.0	34.8	34.3
3 U11-917032 (SCN)		32.8	31.1	33.9	32.7
4 U14-103015		33.7	32.2	34.8	33.3
5 M14-109088		33.7	31.6	36.2	33.3
6 M14-116014		33.8	34.1	35.1	33.1
7 M14-118001		33.5	32.3	35.7	33.7
8 M14-118010		.	32.0	35.0	32.4
9 M14-122011		34.1	32.1	35.9	34.6
10 M14-122031		33.7	31.0	34.4	33.7
11 M14-122035		33.9	32.6	34.7	33.5
12 M14-122038		32.6	33.0	35.0	34.0
13 M14-126012		34.5	33.5	36.4	35.0
14 M14-129066		34.7	33.8	36.3	34.4
15 M14-129109		33.3	32.8	34.4	33.4
16 M14-224051		34.1	31.2	35.7	34.5
17 M14-224081		33.1	31.5	34.5	33.9
18 M14-224084		33.4	32.5	33.8	33.6
19 OAC 17-84C-SCN		33.8	32.6	34.4	33.6
20 ORC 3819N		34.1	33.8	34.8	34.1
21 U18-613247		.	31.9	34.0	33.1
22 U18-903003		31.6	31.7	35.8	32.4
23 U18-916036		32.4	32.8	33.3	32.5
24 U18-919004		32.4	31.1	34.4	33.3
25 U18-923030		32.5	29.8	33.1	32.0
26 U18-929040		31.5	32.2	33.4	31.7

## 2020 SCN PRELIMINARY I

## Oil (%)

SCN HG Type	Decatur	Rosemount	Waseca	Thameville	Woodstock
	MI	MN	MN	ON	ON
	Inf	2.5.7	Inf	2.5.6.7	NI
Strain					
<b>1 MN1410</b>		18.6	19.8	19.7	18.0
<b>2 ND Dickey (0)</b>		18.8	19.8	19.4	17.8
<b>3 U11-917032 (SCN)</b>		19.2	21.0	20.1	18.3
<b>4 U14-103015</b>		18.8	20.9	19.7	18.4
<b>5 M14-109088</b>		20.3	21.0	20.2	18.4
<b>6 M14-116014</b>		18.7	19.8	19.7	17.9
<b>7 M14-118001</b>		18.2	19.7	19.1	17.9
<b>8 M14-118010</b>		.	20.2	19.2	17.6
<b>9 M14-122011</b>		18.5	21.1	19.9	18.8
<b>10 M14-122031</b>		18.6	20.3	20.1	18.1
<b>11 M14-122035</b>		17.9	20.0	19.6	18.7
<b>12 M14-122038</b>		19.1	20.3	20.1	18.4
<b>13 M14-126012</b>		18.4	19.5	18.8	17.5
<b>14 M14-129066</b>		18.4	18.8	19.2	18.2
<b>15 M14-129109</b>		19.2	19.8	20.1	18.8
<b>16 M14-224051</b>		19.1	20.7	19.0	18.1
<b>17 M14-224081</b>		18.8	20.3	19.5	17.8
<b>18 M14-224084</b>		18.7	19.8	20.0	17.7
<b>19 OAC 17-84C-SCN</b>		18.2	19.7	18.9	18.1
<b>20 ORC 3819N</b>		18.3	19.1	18.3	17.7
<b>21 U18-613247</b>		.	18.5	18.7	17.9
<b>22 U18-903003</b>		17.7	19.0	18.3	17.8
<b>23 U18-916036</b>		17.6	18.5	19.2	17.6
<b>24 U18-919004</b>		18.9	19.6	19.1	18.6
<b>25 U18-923030</b>		18.6	20.9	19.4	18.5
<b>26 U18-929040</b>		18.7	21.1	18.9	18.3