

2020 SCN UNIFORM 00

Strain	FPhlm	Parentage	Previous testing	Gen. Comp.	Traits	SCN Resistance source
1 MN0083	WTy	MN97-121138 x MN0091	2	F5	Rps6	None
2 MN0095	PGibl	M92-270029 x M93-313135	5	F5	Rps1	None
3 ND Rolette	PGbf	MN0095 x ND05-17649	1	F4		None
4 MN0208CN (SCN)	WTy	MN0902CN x MN0201	5	F5	Rps1a	PI 88788
5 M13-257047	PGy	M07-209037 x LD08-12441a	19SCN U00	F5		PI 88788
6 M14-109088	PTy	M07-260028 x ND10-4423	New	F5		PI 88788

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 MN0083	117	87	121	73	NR	159	151	127	98	NR	1.8
2 MN0095	113	122	109	77	NR	110	99	123	75	NR	1.3
3 ND Rolette	60	16*	50	47	LR	121	*47	107	77	NR	1.3
4 MN0208CN (SCN)	60	60	48	38	MR	92	82	84	58	LR	1.8
5 M13-257047	58	69	46	39	MR	140	129	133	90	NR	1.9
6 M14-109088	33	39	27	22	R	57	74	84	48	LR	1.5

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

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2020 Summary

Entry	Locations	Yield						Maturity date	Lodging score	Height in.	Seed			
		All		Infested		Non-infested					weight g/100	quality score	protein @13%	oil @13%
		bu/a	rank	bu/a	rank	bu/a	rank							
		2		1		1		2		1		1		2
1 MN0083		35.8	6	33.0	6	38.7	4	9/07	.	27	15.1	1.0	36.0	18.1
2 MN0095		47.4	1	54.1	1	40.7	3	2	.	25	13.2	1.0	34.6	18.7
3 ND Rolette		43.6	4	49.6	2	37.6	6	2	.	25	13.2	1.0	34.7	18.6
4 MN0208CN (SCN)		45.8	2	46.2	4	45.5	1	5	.	30	14.0	1.0	36.0	18.3
5 M13-257047		44.9	3	52.2	3	37.7	5	8	.	29	16.6	1.0	33.8	19.4
6 M14-109088		42.8	5	44.4	5	41.2	2	0	.	27	14.3	1.0	35.1	18.9
Mean		43.4		46.6		40.2		3.2	.	27.1	14.4	1.0	35.0	18.7
LSD(.05)		7.1		11.9		5.3								
C.V. %		13.7		14.0		7.8								
Replications		6		3		3								

2 Year Summary

Entry	Locations	Yield						Maturity date	Lodging score	Height in.	Seed			
		All		Infested		Non-infested					weight g/100	quality score	protein @13%	oil @13%
		bu/a	rank	bu/a	rank	bu/a	rank							
		5		2		3		6		4		4		5
1 MN0083		38.1	5	37.4	5	38.6	5	9/13	1.0	29	15.0	1.5	35.2	17.7
2 MN0095		46.6	3	53.2	3	42.3	1	1	1.0	29	13.1	1.5	34.2	18.2
3 ND Rolette		48.4	1	55.0	2	44.1	2	-1	1.0	30	12.9	1.3	34.0	18.1
4 MN0208CN (SCN)		43.8	4	46.9	4	41.8	3	5	1.5	32	14.1	1.3	35.6	17.9
5 M13-257047		48.0	2	57.2	1	41.8	3	7	1.0	31	18.0	1.5	34.1	18.5
Mean		45.0		49.9		41.7		3.1	1.1	30.3	14.6	1.4	34.6	18.1

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Yield (bu/a)

SCN HG Type	Wyndmere	Roseau
	ND	MN
SCN HG Type	2.5.7	NI
Strain		
1 MN0083	33.0	38.7
2 MN0095	54.1	40.7
3 ND Rolette	49.6	37.6
4 MN0208CN (SCN)	46.2	45.5
5 M13-257047	52.2	37.7
6 M14-109088	44.4	41.2
Average	46.6	40.2
LSD(2-sided,.05)	11.9	5.3
C.V. %	14.0	7.8
Replications	3	3
Row spacing (in.)	30	30

Yield (rank)

SCN HG Type	Wyndmere	Roseau
	ND	MN
SCN HG Type	2.5.7	NI
Strain		
1 MN0083	6	4
2 MN0095	1	3
3 ND Rolette	2	6
4 MN0208CN (SCN)	4	1
5 M13-257047	3	5
6 M14-109088	5	2

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Maturity

	Wyndmere	Roseau
	ND	MN
SCN HG Type	2.5.7	NI
Strain		
1 MN0083	9/01	9/13
2 MN0095	2	2
3 ND Rolette	2	1
4 MN0208CN (SCN)	5	4
5 M13-257047	11	5
6 M14-109088	-1	0
Planted	5/11	5/20

Lodging (score)

	Wyndmere	Roseau
	ND	MN
SCN HG Type	2.5.7	NI
Strain		
1 MN0083		
2 MN0095		
3 ND Rolette		
4 MN0208CN (SCN)		
5 M13-257047		
6 M14-109088		

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Height (inches)

	Wyndmere	Roseau
	ND	MN
SCN HG Type	2.5.7	NI
Strain		
1 MN0083		27
2 MN0095		25
3 ND Rolette		25
4 MN0208CN (SCN)		30
5 M13-257047		29
6 M14-109088		27

Seed Weight (g/100)

	Wyndmere	Roseau
	ND	MN
SCN HG Type	2.5.7	NI
Strain		
1 MN0083		15.1
2 MN0095		13.2
3 ND Rolette		13.2
4 MN0208CN (SCN)		14.0
5 M13-257047		16.6
6 M14-109088		14.3

Seed Quality (score)

	Wyndmere	Roseau
	ND	MN
SCN HG Type	2.5.7	NI
Strain		
1 MN0083		1.0
2 MN0095		1.0
3 ND Rolette		1.0
4 MN0208CN (SCN)		1.0
5 M13-257047		1.0
6 M14-109088		1.0

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Protein (%)

	Wyndmere	Roseau
	ND	MN
SCN HG Type	2.5.7	NI
Strain		
1 MN0083	36.4	35.7
2 MN0095	34.5	34.8
3 ND Rolette	35.7	33.7
4 MN0208CN (SCN)	35.8	36.2
5 M13-257047	34.2	33.4
6 M14-109088	35.6	34.6

Oil (%)

	Wyndmere	Roseau
	ND	MN
SCN HG Type	2.5.7	NI
Strain		
1 MN0083	19.1	17.1
2 MN0095	19.6	17.8
3 ND Rolette	19.4	17.8
4 MN0208CN (SCN)	19.4	17.1
5 M13-257047	20.2	18.6
6 M14-109088	19.7	18.1
