

2019 SCN UNIFORM 0

Strain	FPhm	Parentage	Previous testing	Gen. Comp.	Traits	SCN Resistance source
1 ND Stutsman	PGy	Sheyenne x LaMoure	1	F4		None
2 MN0095	PGibl	M92-270029 x M93-313135	8	F5	Rps1	None
3 MN0404CN (SCN)	PTbl	MN0902CN x MN0304	1	F5	Rps1k	PI 88788
4 MN1410	WGbF	Unknown	13	F5		None
5 M07-296048HOLL-5	PTy	[M07-296048(4) x M05-319034LL] x [M07-296048(4) x M10-237089HO]	New	BC3F3	HOLL	PI 88788
6 M08-362045L	WLTbl	MN0606CN x U03-100612	1	F5		PI 88788
7 M12-354012	WLTy	AR10-205011 x ND07-4027	1	F5		PI 88788
8 M12-366065	WTy	M07-211456 x M06-310036	18SCN U00	F5		PI 88788
9 M12-386012	WGy	M06-289192 x M06-286029	1	F5		PI 88788
10 M13-104065	WTy	M07-260028 x M05-353086	New	F5		PI 88788
11 M13-104080	PT+Gy	M07-260028 x M05-353086	New	F5		PI 88788
12 M13-104106	PTy	M07-260028 x M05-353086	New	F5		PI 88788
13 M13-112029	PGy	ND09-3153 x M08-151086	New	F5		PI 88788
14 M13-112034	PT+Gy	ND09-3153 x M08-151086	New	F5		PI 88788
15 M13-118036	P+WGy	M06-288155 x U09-118017	New	F5		PI 88788
16 M13-121040	PTy	AR08-186008 x M02-149100	New	F5		PI 88788
17 M13-250056	WGbF	M06-288190 x AR09-191018	New	F5		PI 88788
18 M13-251003	PGy	M06-289273 x AR09-291011	New	F5		PI 88788
19 M13-251018	WGy	M06-289273 x AR09-291011	New	F5		PI 88788
20 M13-251024	PGy	M06-289273 x AR09-291011	New	F5		PI 88788
21 M13-252039	PGbF	M07-294030 x E07051	New	F5		PI 88788
22 M13-252044	PGbF	M07-294030 x E07051	New	F5		PI 88788
23 M13-257029	WTy	M07-209037 x LD08-12441a	New	F5		PI 88788
24 M13-262005	PGbF	M03-172059 x LD08-12435a	New	F5		PI 88788
25 M13-262037	PGibl	M03-172059 x LD08-12435a	New	F5		PI 88788
26 ND13-4508	WGy	P.91M10 x Sheyenne	18 UT 0	F4		none
27 ND16-2751	PGy	ND10-3459 x ND07-2205	New	F4		PI 88788
28 ND16-3035	WGy	ND10-2763 x ND10-2522	New	F4		PI 88788
29 ND16-5820	WGy	ND10-2763 x M05-363022	New	F4		PI 88788
30 ND16-6908	P+WGy	ND10-2763 x ND10-2522	New	F4		PI 88788
31 ND16-7704	PGy	ND10-3413 x ND10-3048	New	F4		PI 88788
32 ND16-7896	WGbF	ND10-3495 x ND Stutsman	New	F4		PI 88788
33 ND16-8078	P+WGy	ND10-3460 x ND10-3323	New	F4		PI 88788
34 ND16-8305	WGy	ND10-2479 x ND10-2522	New	F4		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 ND Stutsman	69	73	78	33	MR	247	259	248	92	NR	1.7
2 MN0095	87	73	84	36	MR	245	287	303	102	NR	1.2
3 MN0404CN (SCN)	14	9	19	6	HR	181	156	176	62	NR	3.0
4 MN1410	141	116	122	57	LR	284	195	296	94	NR	3.8
5 M07-296048HOLL-5	2	2	14	3	HR	316	272	309	109	NR	1.8
6 M08-362045L	2	1	8	2	HR	144	124	159	52	LR	2.8
7 M12-354012	16	17	22	8	HR	195	186	180	68	NR	3.8
8 M12-366065	8	11	17	5	HR	135	1*	112	45	LR	3.2
9 M12-386012	43	45	58	22	R	242	75	229	67	**	2.7
10 M13-104065	2	8	11	3	HR	164	152	173	60	NR	1.5
11 M13-104080	64	52	78	29	MR	173	164	156	81	NR	1.3
12 M13-104106	3	9	.	3	HR	65	114	88	33	MR	1.7
13 M13-112029	174	10*	138	70	NR	82	86	142	38	MR	2.2
14 M13-112034	22	15	29	10	R	302	292	312	110	NR	3.5
15 M13-118036	43	36	40	18	R	117	109	121	57	LR	3.2
16 M13-121040	63	40	71	26	MR	143	148	145	53	LR	2.7
17 M13-250056	2	1	1	1	HR	7	13	5	3	HR	3.3
18 M13-251003	11	9	19	6	HR	96	122	103	39	MR	1.7
19 M13-251018	27	21	24	11	R	82	78	94	31	MR	4.5
20 M13-251024	14	9	25	7	HR	161	145	191	61	NR	2.3
21 M13-252039	24	18	31	11	R	264	194	259	87	NR	4.0
22 M13-252044	43	37	51	20	R	268	246	256	94	NR	4.3
23 M13-257029	23	20	31	11	R	208	188	204	73	NR	3.5
24 M13-262005	76	59	84	33	MR	178	205	183	69	NR	4.3
25 M13-262037	49	54	61	24	R	202	184	217	73	NR	4.0
26 ND13-4508	84	61	97	36	MR	224	247	.	86	NR	3.2
27 ND16-2751	17	14	20	8	HR	382	251	387	124	NR	2.5
28 ND16-3035	41	36	49	19	R	288	208	317	99	NR	4.5
29 ND16-5820	4	2	9	2	HR	151	166	160	58	LR	3.8
30 ND16-6908	46	41	56	21	R	243	217	253	87	NR	4.7
31 ND16-7704	27	22	32	12	R	229	226	234	84	NR	3.5
32 ND16-7896	6	4	11	3	HR	142	225	139	62	NR	1.0
33 ND16-8078	7	3	13	3	HR	191	256	186	77	NR	3.3
34 ND16-8305	25	19	31	11	R	306	191	315	99	NR	2.7

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

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2019 Summary

Entry	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							
Locations	4		1*		3		5	5	4	4	4	4	4
1 ND Stutsman	47.2	6	60.4	10	42.8	4	9/27	1.0	30	14.6	1.1	33.8	17.6
2 MN0095	40.6	31	52.9	30	36.6	29	-11	1.0	28	12.1	1.4	34.6	17.9
3 MN0404CN (SCN)	41.9	28	55.3	25	37.4	27	-8	1.6	30	13.9	1.1	33.5	18.1
4 MN1410	47.4	5	57.7	18	43.9	2	6	1.0	32	17.3	1.2	33.4	18.1
5 M07-296048HOLL-5	44.1	17	53.8	28	40.9	12	3	1.2	33	16.7	1.1	34.6	16.2
6 M08-362045L	43.7	19	58.3	15	38.8	22	0	1.0	26	15.6	1.3	33.5	18.2
7 M12-354012	47.9	2	65.9	2	41.9	8	0	1.0	30	14.9	1.4	33.2	18.2
8 M12-366065	42.0	26	54.5	27	37.8	26	-4	1.2	29	14.4	1.1	33.4	18.1
9 M12-386012	42.7	24	55.6	24	38.4	24	-3	1.0	27	17.0	1.6	35.9	17.6
10 M13-104065	44.3	16	57.9	17	39.7	15	-2	1.0	31	18.9	1.4	34.0	17.2
11 M13-104080	37.0	34	42.0	34	36.6	28	-7	1.0	30	15.8	1.3	34.2	17.4
12 M13-104106	42.4	25	60.5	9	36.4	30	-4	1.0	28	18.0	1.1	34.1	17.1
13 M13-112029	38.4	32	49.7	33	34.6	33	-4	1.0	28	14.1	1.1	33.9	18.2
14 M13-112034	38.1	33	52.9	31	33.2	34	-5	1.0	28	15.0	1.1	34.4	18.2
15 M13-118036	48.3	1	59.9	11	44.4	1	0	1.0	28	15.7	1.1	33.2	17.6
16 M13-121040	41.8	29	50.5	32	38.9	21	0	1.0	31	14.5	1.4	32.2	18.5
17 M13-250056	47.9	2	61.1	8	43.4	3	2	1.0	32	15.8	1.1	32.4	18.2
18 M13-251003	46.2	10	59.4	12	41.8	9	-3	1.0	31	16.7	1.3	33.0	17.5
19 M13-251018	45.2	13	64.4	3	38.8	22	0	1.0	28	17.9	1.1	33.4	17.6
20 M13-251024	46.8	8	62.2	7	41.7	10	-1	1.0	32	15.4	1.2	33.2	17.3
21 M13-252039	42.8	22	56.5	21	38.3	25	8	1.1	30	17.6	1.6	33.1	16.9
22 M13-252044	46.5	9	58.4	14	42.6	6	7	1.2	27	17.7	1.6	32.9	17.4
23 M13-257029	43.8	18	56.0	23	39.7	15	0	1.0	30	16.7	1.1	35.6	17.8
24 M13-262005	44.5	15	57.2	20	40.2	14	2	1.0	27	16.6	1.2	33.3	18.3
25 M13-262037	45.7	11	55.3	26	42.5	7	4	1.0	28	16.2	1.3	33.2	18.0
26 ND13-4508	42.8	22	53.5	29	39.3	19	0	1.0	27	16.8	1.2	33.9	17.2
27 ND16-2751	45.4	12	57.5	19	41.4	11	5	1.0	30	15.6	1.1	32.8	17.9
28 ND16-3035	41.0	30	62.5	6	39.5	18	-8	1.0	27	15.2	1.2	32.5	18.1
29 ND16-5820	47.0	7	69.2	1	39.6	17	0	1.0	26	16.0	1.2	33.5	18.0
30 ND16-6908	41.9	27	59.0	13	36.1	32	-8	1.0	25	15.6	1.2	32.5	18.3
31 ND16-7704	44.8	14	58.1	16	40.3	13	-6	1.0	25	14.5	1.3	33.2	18.1
32 ND16-7896	43.4	20	56.1	22	39.1	20	-3	1.4	29	15.3	1.2	34.6	17.5
33 ND16-8078	47.9	2	63.1	5	42.8	4	5	1.0	30	16.5	1.3	33.5	17.8
34 ND16-8305	43.2	21	63.9	4	36.4	30	-6	1.0	23	15.5	1.1	32.9	18.3
Mean	44.0		57.4		39.6			1.0	29	15.9	1.2	33.6	17.8
LSD(.05)	4.5		7.5		4.7								
C.V. %	12.7		8.0		12.8								
Replications	12		3		9								

*Colfax, ND yield data not included in means

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2 Year Summary

Entry	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							
Locations	11		5		6		12	12	10	10	10	10	10
1 ND Stutsman	50.5	4	51.7	4	48.9	2	9/21	1.2	31	15.4	1.5	34.1	17.9
2 MN0095	41.7	7	43.5	7	40.1	5	-8	1.1	26	13.2	1.5	34.8	18.2
3 MN0404CN (SCN)	43.5	6	47.8	6	40.6	5	-7	1.8	29	14.5	1.5	34.1	18.5
4 MN1410	53.9	1	56.4	2	52.3	1	5	1.5	35	17.9	1.4	34.5	18.1
6 M08-362045L	51.8	2	57.3	1	47.4	3	0	1.3	28	15.9	1.4	34.4	18.4
7 M12-354012	51.5	3	56.4	2	47.9	3	-1	1.5	30	15.3	2.2	34.4	18.3
9 M12-386012	47.5	5	51.5	5	42.4	4	-3	1.1	29	16.7	1.6	35.9	17.8

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SCN HG Type	Yield (bu/a)				
	Thief River				
	Gary MN Inf	Colfax ND 2.5.7	Falls MN NI	Ottawa ON NI	Woodstock ON NI
Strain					
1 ND Stutsman	60.4	42.4	58.6	43.3	26.6
2 MN0095	52.9	25.9	46.3	36.0	25.0
3 MN0404CN (SCN)	55.3	18.3	48.6	34.7	25.8
4 MN1410	57.7	47.6	52.5	46.4	34.0
5 M07-296048HOLL-5	53.8	30.6	46.1	38.5	36.6
6 M08-362045L	58.3	42.4	54.8	34.1	30.7
7 M12-354012	65.9	39.1	50.1	44.4	35.2
8 M12-366065	54.5	34.1	47.2	39.5	25.9
9 M12-386012	55.6	31.9	53.5	38.3	23.9
10 M13-104065	57.9	28.9	44.6	42.7	28.5
11 M13-104080	42.0	29.3	48.4	33.5	27.3
12 M13-104106	60.5	24.1	41.4	35.2	30.6
13 M13-112029	49.7	31.5	47.0	30.4	29.7
14 M13-112034	52.9	32.6	43.1	27.3	24.8
15 M13-118036	59.9	37.2	56.0	41.8	35.5
16 M13-121040	50.5	28.8	51.7	36.0	31.0
17 M13-250056	61.1	37.1	49.7	42.1	38.9
18 M13-251003	59.4	38.3	48.8	41.3	38.4
19 M13-251018	64.4	38.3	45.2	37.9	33.0
20 M13-251024	62.2	37.8	51.6	35.0	35.5
21 M13-252039	56.5	40.6	46.5	35.0	42.6
22 M13-252044	58.4	31.4	41.5	46.7	39.7
23 M13-257029	56.0	33.0	49.1	35.7	29.2
24 M13-262005	57.2	26.5	54.6	35.1	32.3
25 M13-262037	55.3	38.0	54.2	38.9	32.3
26 ND13-4508	53.5	35.7	51.4	40.3	29.6
27 ND16-2751	57.5	47.3	47.2	41.4	36.7
28 ND16-3035	62.5	39.7	47.6	39.9	28.2
29 ND16-5820	69.2	36.9	54.0	36.1	29.9
30 ND16-6908	59.0	35.4	49.4	35.0	24.8
31 ND16-7704	58.1	37.3	52.3	37.4	28.1
32 ND16-7896	56.1	37.9	45.1	40.4	35.2
33 ND16-8078	63.1	41.9	56.1	39.8	29.1
34 ND16-8305	63.9	31.3	49.0	36.2	24.5
Average	57.4	35.0	49.2	38.1	31.2
LSD(2-sided,.05)	7.5	14.8	7.0	9.8	5.7
C.V. %	8.0	26.5	8.8	13.2	11.1
Replications	3	3	3	3	3
Row spacing (in.)	10	30	10	15	14

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SCN HG Type	Yield (rank)				
	Thief River				
	Gary MN Inf	Colfax ND 2.5.7	Falls MN NI	Ottawa ON NI	Woodstock ON NI
Strain					
1 ND Stutsman	10	3	1	4	27
2 MN0095	30	32	27	22	30
3 MN0404CN (SCN)	25	34	20	30	29
4 MN1410	18	1	9	2	11
5 M07-296048HOLL-5	28	27	28	16	6
6 M08-362045L	15	4	4	31	16
7 M12-354012	2	8	14	3	9
8 M12-366065	27	20	24	14	28
9 M12-386012	24	23	8	17	34
10 M13-104065	17	29	31	5	23
11 M13-104080	34	28	21	32	26
12 M13-104106	9	33	34	25	17
13 M13-112029	33	24	25	33	19
14 M13-112034	31	22	32	34	31
15 M13-118036	11	15	3	7	7
16 M13-121040	32	30	11	23	15
17 M13-250056	8	16	15	6	3
18 M13-251003	12	9	19	9	4
19 M13-251018	3	9	29	18	12
20 M13-251024	7	13	12	28	7
21 M13-252039	21	6	26	29	1
22 M13-252044	14	25	33	1	2
23 M13-257029	23	21	17	24	21
24 M13-262005	20	31	5	26	13
25 M13-262037	26	11	6	15	13
26 ND13-4508	29	18	13	11	20
27 ND16-2751	19	2	23	8	5
28 ND16-3035	6	7	22	12	24
29 ND16-5820	1	17	7	21	18
30 ND16-6908	13	19	16	27	31
31 ND16-7704	16	14	10	19	25
32 ND16-7896	22	12	30	10	9
33 ND16-8078	5	5	2	13	22
34 ND16-8305	4	26	18	20	33

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SCN HG Type	Maturity				
	Thief River				
	Gary MN Inf	Colfax ND 2.5.7	Falls MN NI	Ottawa ON NI	Woodstock ON NI
Strain					
1 ND Stutsman	10/01	9/27	10/07	9/16	9/22
2 MN0095	-11	-12	-17	-12	-3
3 MN0404CN (SCN)	-11	-8	-11	-10	-2
4 MN1410	11	7	3	6	4
5 M07-296048HOLL-5	4	9	-1	3	2
6 M08-362045L	-2	0	-5	3	2
7 M12-354012	0	1	-6	0	3
8 M12-366065	-8	-3	-8	-3	0
9 M12-386012	-5	-3	-5	0	-3
10 M13-104065	-6	-4	-6	2	2
11 M13-104080	-10	-6	-8	-8	-5
12 M13-104106	-7	-3	-10	0	-1
13 M13-112029	-5	-3	-9	-2	0
14 M13-112034	-8	-3	-11	-3	-2
15 M13-118036	2	1	-2	1	-3
16 M13-121040	-1	2	-4	0	4
17 M13-250056	5	4	-1	0	3
18 M13-251003	8	9	-37	2	3
19 M13-251018	5	7	-19	2	3
20 M13-251024	-1	0	-5	1	1
21 M13-252039	12	12	0	5	11
22 M13-252044	8	13	0	1	12
23 M13-257029	6	-1	-8	-1	3
24 M13-262005	5	4	1	1	1
25 M13-262037	5	9	2	0	4
26 ND13-4508	-1	3	-5	2	1
27 ND16-2751	13	3	1	3	4
28 ND16-3035	-10	-8	-16	-4	-3
29 ND16-5820	-1	0	-5	2	2
30 ND16-6908	-9	-3	-16	-8	-2
31 ND16-7704	-8	-2	-13	-4	-1
32 ND16-7896	-6	-4	-3	0	-1
33 ND16-8078	8	5	3	6	5
34 ND16-8305	-9	-6	-12	-2	0
Planted	5/17	6/05	5/18	5/21	6/14

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Lodging (score)

SCN HG Type	Thief River				
	Gary	Colfax	Falls	Ottawa	Woodstock
	MN	ND	MN	ON	ON
Strain	Inf	2.5.7	NI	NI	NI
1 ND Stutsman	1.0	1.0	1.0	1.0	1.0
2 MN0095	1.0	1.0	1.0	1.0	1.0
3 MN0404CN (SCN)	3.0	1.0	1.0	1.0	1.8
4 MN1410	1.0	1.0	1.0	1.0	1.0
5 M07-296048HOLL-5	2.0	1.0	1.0	1.0	1.1
6 M08-362045L	1.0	1.0	1.0	1.0	1.0
7 M12-354012	1.0	1.0	1.0	1.0	1.0
8 M12-366065	2.0	1.0	1.0	1.0	1.0
9 M12-386012	1.0	1.0	1.0	1.0	1.0
10 M13-104065	1.0	1.0	1.0	1.0	1.0
11 M13-104080	1.0	1.0	1.0	1.0	1.0
12 M13-104106	1.0	1.0	1.0	1.0	1.0
13 M13-112029	1.0	1.0	1.0	1.0	1.0
14 M13-112034	1.0	1.0	1.0	1.0	1.0
15 M13-118036	1.0	1.0	1.0	1.0	1.0
16 M13-121040	1.0	1.0	1.0	1.0	1.1
17 M13-250056	1.0	1.0	1.0	1.0	1.0
18 M13-251003	1.0	1.0	1.0	1.0	1.0
19 M13-251018	1.0	1.0	1.0	1.0	1.0
20 M13-251024	1.0	1.0	1.0	1.0	1.0
21 M13-252039	1.0	1.0	1.0	1.3	1.0
22 M13-252044	2.0	1.0	1.0	1.0	1.0
23 M13-257029	1.0	1.0	1.0	1.0	1.0
24 M13-262005	1.0	1.0	1.0	1.0	1.0
25 M13-262037	1.0	1.0	1.0	1.0	1.0
26 ND13-4508	1.0	1.0	1.0	1.0	1.0
27 ND16-2751	1.0	1.0	1.0	1.0	1.0
28 ND16-3035	1.0	1.0	1.0	1.0	1.0
29 ND16-5820	1.0	1.0	1.0	1.0	1.0
30 ND16-6908	1.0	1.0	1.0	1.0	1.0
31 ND16-7704	1.0	1.0	1.0	1.0	1.0
32 ND16-7896	1.0	1.0	3.0	1.0	1.0
33 ND16-8078	1.0	1.0	1.0	1.0	1.0
34 ND16-8305	1.0	1.0	1.0	1.0	1.0

2019 SCN UNIFORM 0

SCN HG Type	Height (inches)				
	Thief River				
	Gary MN	Colfax ND	Falls MN	Ottawa ON	Woodstock ON
Strain	Inf	2.5.7	NI	NI	NI
1 ND Stutsman	39		33	27	23
2 MN0095	37		33	22	19
3 MN0404CN (SCN)	34		34	29	22
4 MN1410	42		35	26	26
5 M07-296048HOLL-5	39		36	29	28
6 M08-362045L	34		30	21	19
7 M12-354012	36		34	28	22
8 M12-366065	37		32	26	22
9 M12-386012	33		31	22	20
10 M13-104065	38		33	29	25
11 M13-104080	38		34	26	23
12 M13-104106	35		30	23	22
13 M13-112029	38		34	21	21
14 M13-112034	38		30	22	22
15 M13-118036	36		31	24	23
16 M13-121040	37		35	26	24
17 M13-250056	38		35	28	27
18 M13-251003	37		36	29	24
19 M13-251018	35		34	24	20
20 M13-251024	40		32	28	27
21 M13-252039	41		34	24	23
22 M13-252044	35		30	24	20
23 M13-257029	35		33	26	26
24 M13-262005	33		33	22	21
25 M13-262037	33		32	24	23
26 ND13-4508	34		30	24	21
27 ND16-2751	43		32	26	20
28 ND16-3035	33		32	23	18
29 ND16-5820	34		29	19	22
30 ND16-6908	33		29	21	17
31 ND16-7704	31		29	22	19
32 ND16-7896	35		32	25	23
33 ND16-8078	39		34	24	22
34 ND16-8305	28		28	20	15

2019 SCN UNIFORM 0

SCN HG Type	Seed Weight (g/100)				
	Thief River				
	Gary MN Inf	Colfax ND 2.5.7	Falls MN NI	Ottawa ON NI	Woodstock ON NI
Strain					
1 ND Stutsman	14.4		14.5	15.0	14.4
2 MN0095	12.2		12.4	12.0	11.7
3 MN0404CN (SCN)	15.0		14.3	13.0	13.3
4 MN1410	17.0		17.2	18.9	16.2
5 M07-296048HOLL-5	16.8		17.0	17.1	15.8
6 M08-362045L	16.0		15.6	16.3	14.6
7 M12-354012	15.4		14.3	14.8	14.9
8 M12-366065	15.2		13.9	13.8	14.5
9 M12-386012	17.3		16.8	18.1	15.6
10 M13-104065	19.0		20.1	18.5	17.9
11 M13-104080	16.1		16.1	15.9	15.2
12 M13-104106	18.5		17.1	18.7	17.6
13 M13-112029	15.2		13.7	13.8	13.5
14 M13-112034	15.5		14.6	14.5	15.2
15 M13-118036	14.9		16.5	16.1	15.1
16 M13-121040	14.9		14.6	14.0	14.5
17 M13-250056	16.3		16.0	15.5	15.2
18 M13-251003	16.2		17.7	17.0	15.8
19 M13-251018	18.0		18.9	17.4	17.2
20 M13-251024	15.7		15.7	14.9	15.2
21 M13-252039	18.0		18.2	16.8	17.3
22 M13-252044	17.8		17.6	17.7	17.6
23 M13-257029	16.5		17.1	16.4	16.9
24 M13-262005	17.9		17.8	15.8	14.8
25 M13-262037	15.7		16.1	16.5	16.4
26 ND13-4508	16.8		17.0	17.5	15.8
27 ND16-2751	16.3		15.6	15.2	15.1
28 ND16-3035	15.7		15.0	14.5	15.4
29 ND16-5820	16.8		16.0	15.7	15.6
30 ND16-6908	15.4		15.7	14.7	16.4
31 ND16-7704	14.4		14.3	14.4	14.8
32 ND16-7896	15.2		16.6	14.9	14.5
33 ND16-8078	16.6		16.2	17.2	15.8
34 ND16-8305	15.4		15.3	15.5	15.9

2019 SCN UNIFORM 0

Seed Quality (score)

SCN HG Type	Thief River				
	Gary	Colfax	Falls	Ottawa	Woodstock
	MN	ND	MN	ON	ON
Inf	2.5.7	NI	NI	NI	NI
Strain					
1 ND Stutsman	1.0		1.0	1.0	1.5
2 MN0095	1.0		1.0	2.0	1.5
3 MN0404CN (SCN)	1.0		1.0	1.0	1.5
4 MN1410	1.0		1.0	1.3	1.5
5 M07-296048HOLL-5	1.0		1.0	1.0	1.5
6 M08-362045L	1.0		1.0	1.7	1.5
7 M12-354012	1.0		1.0	2.0	1.5
8 M12-366065	1.0		1.0	1.0	1.5
9 M12-386012	2.0		1.0	2.0	1.5
10 M13-104065	1.0		1.0	1.0	2.5
11 M13-104080	1.0		1.0	1.7	1.5
12 M13-104106	1.0		1.0	1.0	1.5
13 M13-112029	1.0		1.0	1.0	1.5
14 M13-112034	1.0		1.0	1.0	1.5
15 M13-118036	1.0		1.0	1.0	1.5
16 M13-121040	1.0		1.0	2.0	1.5
17 M13-250056	1.0		1.0	1.0	1.5
18 M13-251003	1.0		1.0	1.7	1.5
19 M13-251018	1.0		1.0	1.3	1.0
20 M13-251024	1.0		1.0	1.3	1.5
21 M13-252039	1.0		2.0	1.7	1.5
22 M13-252044	1.0		2.0	2.0	1.5
23 M13-257029	1.0		1.0	1.0	1.5
24 M13-262005	1.0		1.0	1.3	1.5
25 M13-262037	1.0		1.0	1.7	1.5
26 ND13-4508	1.0		1.0	1.3	1.5
27 ND16-2751	1.0		1.0	1.0	1.5
28 ND16-3035	1.0		1.0	1.3	1.5
29 ND16-5820	1.0		1.0	1.3	1.5
30 ND16-6908	1.0		1.0	1.3	1.5
31 ND16-7704	1.0		1.0	1.7	1.5
32 ND16-7896	1.0		1.0	1.3	1.5
33 ND16-8078	1.0		1.0	1.7	1.5
34 ND16-8305	1.0		1.0	1.0	1.5

2019 SCN UNIFORM 0

SCN HG Type	Protein (%)				
	Thief River				
	Gary MN Inf	Colfax ND 2.5.7	Falls MN NI	Ottawa ON NI	Woodstock ON NI
Strain					
1 ND Stutsman	33.9		33.6	32.1	35.5
2 MN0095	34.3		34.5	33.8	35.7
3 MN0404CN (SCN)	.		33.7	32.9	33.7
4 MN1410	31.8		32.7	33.4	35.5
5 M07-296048HOLL-5	33.8		34.4	34.7	35.3
6 M08-362045L	32.8		33.5	33.8	33.9
7 M12-354012	32.8		32.9	33.0	34.0
8 M12-366065	33.1		32.7	32.5	35.2
9 M12-386012	34.6		35.0	36.9	36.8
10 M13-104065	33.2		33.8	33.8	35.2
11 M13-104080	32.9		33.4	34.8	35.7
12 M13-104106	33.7		33.6	34.3	34.8
13 M13-112029	33.2		34.1	33.0	35.5
14 M13-112034	33.8		33.8	33.5	36.5
15 M13-118036	33.3		33.4	32.2	34.1
16 M13-121040	31.6		32.2	31.3	33.6
17 M13-250056	32.4		32.9	30.9	33.3
18 M13-251003	33.0		32.3	32.3	34.3
19 M13-251018	34.0		32.7	32.5	34.6
20 M13-251024	32.7		32.5	33.5	34.2
21 M13-252039	33.5		32.5	33.0	33.6
22 M13-252044	33.4		32.6	31.3	34.5
23 M13-257029	34.5		35.4	36.3	36.1
24 M13-262005	33.5		32.2	32.4	35.2
25 M13-262037	32.8		33.1	31.5	35.4
26 ND13-4508	33.4		32.8	33.8	35.6
27 ND16-2751	32.5		32.1	32.8	34.0
28 ND16-3035	32.3		32.2	31.1	34.5
29 ND16-5820	33.1		32.8	33.7	34.5
30 ND16-6908	31.7		32.6	31.4	34.3
31 ND16-7704	32.8		33.3	32.0	34.6
32 ND16-7896	34.2		34.1	35.5	34.7
33 ND16-8078	34.2		33.3	31.8	34.8
34 ND16-8305	32.8		32.6	31.1	35.1

2019 SCN UNIFORM 0

SCN HG Type	Oil (%)				
	Thief River				
	Gary MN Inf	Colfax ND 2.5.7	Falls MN NI	Ottawa ON NI	Woodstock ON NI
Strain					
1 ND Stutsman	16.3		17.4	18.6	18.1
2 MN0095	18.0		17.2	18.4	18.1
3 MN0404CN (SCN)	.		17.7	18.3	18.4
4 MN1410	18.8		17.5	18.2	17.8
5 M07-296048HOLL-5	16.5		16.0	15.4	17.0
6 M08-362045L	18.5		18.6	17.6	18.3
7 M12-354012	17.8		18.7	18.3	18.2
8 M12-366065	17.7		18.2	18.5	18.0
9 M12-386012	17.5		17.1	17.8	18.1
10 M13-104065	17.5		16.9	17.0	17.4
11 M13-104080	17.8		17.5	16.8	17.3
12 M13-104106	16.9		17.3	16.8	17.7
13 M13-112029	18.1		17.7	19.4	17.8
14 M13-112034	17.9		18.1	19.0	17.8
15 M13-118036	17.7		17.5	17.5	17.5
16 M13-121040	18.9		18.8	18.1	18.0
17 M13-250056	17.1		18.2	18.7	18.6
18 M13-251003	18.2		17.0	17.3	17.7
19 M13-251018	17.8		16.9	17.5	18.2
20 M13-251024	18.0		17.3	16.4	17.3
21 M13-252039	16.7		16.5	16.8	17.7
22 M13-252044	17.4		16.5	17.9	17.8
23 M13-257029	18.0		17.4	17.9	17.9
24 M13-262005	18.5		17.7	18.7	18.4
25 M13-262037	18.0		17.8	18.2	17.9
26 ND13-4508	17.7		17.0	16.9	17.3
27 ND16-2751	17.8		18.5	17.3	18.0
28 ND16-3035	17.8		18.0	18.4	18.3
29 ND16-5820	17.7		18.7	17.5	18.2
31 ND16-6908	18.1		18.4	18.7	17.9
32 ND16-7704	17.6		18.4	18.7	18.0
33 ND16-7896	17.5		17.5	17.4	17.5
34 ND16-8078	17.5		17.8	18.1	17.8
35 ND16-8305	17.6		18.3	18.8	18.3