

2010 North Central Region Potato Variety Trial

Best Western - O'Hare

Chicago, IL

December 13 – 14, 2010



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2010 North Central Regional Potato Variety Trial Cooperators

State or Province	Cooperator	Seed Shipping Address
MICHIGAN	Dr. Dave Douches Michigan State University Dept. of Crop & Soil Sci. 486 Plant & Soil Sci. Bldg. East Lansing, MI 48824-1325 VOICE: 517-355-0271 x1194, x1198, x1199 FAX: 517-353-5174 douchesd@msu.edu	Mr. Joe Coombs Michigan State University Crop Science Field Lab 4450 Beaumont Rd. East Lansing, MI 48824 VOICE: 517-355-2287 coombs@msu.edu Receive by: 01 April
MINNESOTA	Dr. Christian Thill University of Minnesota Dept. of Horticultural Science 1970 Folwell Ave. St. Paul, MN 55108 VOICE: 612-624-9737 FAX: 612-624-4941 thill005@umn.edu	Mr. Jeff Miller USDA/ARS Potato Research Worksite 311 5th Ave. Northeast East Grand Forks, MN 56721 VOICE: 218-773-2473 FAX: 701-795-8348 mille603@umn.edu Receive by: 01 April
NORTH DAKOTA	Dr. Asunta (Susie) Thompson North Dakota State University Dept. of Plant Sciences NDSU 7670; P.O. Box 6050 Fargo, ND 58108-6050 VOICE: 701-231-8160 FAX: 701-231-8474 CELL: 701-799-8536 asunta.thompson@ndsu.edu	Mr. Bryce Farnsworth/Mr. Richard Nilles North Dakota State University Potato Science Building 1220 16th St. North Fargo, ND 58108 VOICE: 701-231-1051 CELL: 701-793-8812/701-730-0429 receive by: 01 April bryce.farnsworth@ndsu.edu richard.nilles@ndsu.edu
WISCONSIN	Dr. Jiwan Palta University of Wisconsin Dept of Horticulture 1575 Linden Drive Madison, WI 53706 VOICE: 608.262.5782 FAX: 608-262-4743 jppalta@wisc.edu	Bryan Bowen UW Lelah Starks Potato Breeding Farm 4181 Camp Bryn Afon Road Rhinelander, WI 54501 VOICE: 715-369-0619 (farm) FAX: 715-369-4562 (farm) bdbowen@wisc.edu Receive by: 15 April
MANITOBA ¹ * Phytosanitary is required.	Dr. Benoit Bizimungu Agriculture and Agri-Foods Canada Lethbridge Research Center Hyw. 3, East Lethbridge P.O. 3000, Main Lethbridge, Alberta T1J 4B1 , Canada VOICE: 403-317-2276 FAX: 403-382-3156 bbizimungu@AGR.GC.CA	1. Marty Glynn USDA / ARS Potato Research Worksite Receive by: 15 April 2. Re-ship by Bizimungu to: Morden, Manitoba

(Harvest Samples ONLY) and (Seed Shipments for CANADA)

1) ALB & Ont did not participate in 2010.

USDA / ARS * Harvest samples only	Mr. Marty Glynn USDA/ARS Potato Research Worksite 311 5th Ave. Northeast East Grand Forks, MN 56721 VOICE: 218-773-2473 FAX: 701-795-8348 GLYNNM@fargo.ars.usda.gov
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North Central Regional Potato Variety Trial-2010

TABLE 1. Clonal entries, parentage, market use, and characteristics.

Entry No.	Clone	Entered by	Market Use	Unique features	Pedigree		Characteristics		
					Female	Male	Skin Type	Flesh Color	Shape
<u>RED</u>									
1	ND8314-1R	ND	FM				Red	W	Rnd-Oval
2	ND8555-8R	ND	FM				Red	Cream	Rnd-Oval
3	W2609-1R	WI	FM				Red	Cream	Rnd-Oval
4	Red Norland	Chk	FM		RedKote	ND626	Red	W	Rnd-Oval
5	Red Pontiac	Chk	FM				Red	Cream	Oval-Oblong
<u>RUSSET / LONG</u>									
6	CV00047-3	AB	FF				Rus	Cream	Oval-Oblong
7	CV99222-2	AB	FF				Rus	Cream	Oval-Oblong
8	ND8229-3	ND	FF/FM				Rus	Cream	Blocky, Long
9	W8946-1rus	WI	FF				Rus	Cream	Oval-Oblong
10	R. Burbank	Chk	FF		Chimera of Burbank		Rus	Cream	Oblong
11	R. Norkotah	Chk	FM		ND9526-4RUSS	ND9687-5RUSS	Rus	Cream	Oblong
<u>ROUND WHITE</u>									
12	MSL211-3	MI	C	Late Blight Resistant	MSG301-9	Jacqueline Lee	W	Cream	Rnd-Oval
13	MSL268-D	MI	C	Late Blight Resistant	NY103	Jacqueline Lee	W	Cream	Rnd-Oval
14	MSM182-1	MI	C	Late Blight Resistant	Stirling	NY121	W	Cream	Rnd
15	MSQ176-5	MI	C	Late Blight Resistant	MSI152-A	Missaukee	W	Cream	Rnd-Oval
16	ND8307C-3	ND	C				W	Cream	Rnd-Oval
17	W2717-5	WI	C	Long storage-cold chipping	S440	ND3828-15	W	Cream	Rnd-Oval
18	W2978-3	WI	C	Long storage, chip and tablestock	Monticello	Dakota Pearl	W	Cream	Rnd-Oval
19	W5015-12	WI	C	Long storage, high yield	Brodick	White Pearl	W	Cream	Rnd-Oval
20	Atlantic	Chk	C				W	Cream	Rnd-Oval
21	NorValley	Chk	C	Storage chip	Norchip	ND860-2	W	Cream	Rnd-Oval
22	Snowden	Chk	C				W	W	Rnd-Oval

North Central Regional Potato Variety Trial-2010

TABLE 2. Locations, Cooperators, and Cultural Information.

Site No.	Locations	Cooperators	Soil Type	Irrigation	Dates		Days to	
					Planting	Harvest	Vine Kill	Harvest
1	MICHIGAN (MI) Montcalm Research Farm Entrican, MI	Dr. Dave Douches Joe Coombs VOICE: 517-353-3145	McBride sandy loam	Overhead pivot as needed	4-May-10	27-Sep-10	114	126
2	MINNESOTA (MN) UM-Sand Plain Res Farm Becker, MN	Dr. Christian Thill Jeff Miller VOICE: 612-624-9737	Hubbard Loamy Sand	Soild Set Sprinkler	5-May-10	21-Sep-10	123	139
3	NORTH DAKOTA (ND) Oberg Farms Hoople, ND	Dr. Susie Thompson Bryce Farnsworth VOICE: 701-231-8160	sandy loam	dryland				
4	NORTH DAKOTA (ND) Forrest River Site Inkster, ND	Dr. Susie Thompson Bryce Farnsworth VOICE: 701-231-8160	sandy loam	Linear				
5	WISCONSIN (WI) UW-Hancock Res. Farm Hancock, WI	Dr. Jiwan Palta Dr. Felix Navarro VOICE: 608-262-1878	Plainfield loamy sand	Linear System 12.38" irrigation 28.8" rain	28-Apr-10	7-Sep-10	117	132
6	MANITOBA (MB) Morden, MB, Canada	Dr. Benoit Bizimungu VOICE: 506-452-4880	Hochfeld fine sandy loam	pivot	19-May-10	15-Sep-10		120

North Central Regional Potato Variety Trial-2010

TABLE 2. Locations, Cooperators, and Cultural Information.

Site No.	Locations	Cooperators	Cultural Information	
			N - P - K Fertilizer (lbs./A)	Herbicides
1	MICHIGAN (MI) Montcalm Research Farm Entrican, MI	Dr. Dave Douches Joe Coombs VOICE: 517-353-3145	286N-50P-42K from 4 applications + 2 t/a chicken manure pre-plant	Dual/Lorox (cracking) Sencor/Matrix (post)
2	MINNESOTA (MN) UM-Sand Plain Res Farm Becker, MN	Dr. Christian Thill Jeff Miller VOICE: 612-624-9737	250 lbs/ac 0-0-60 --- broadcast 250 lbs/ac 0-0-22 --- broadcast 300 lbs/ac 18-46-0 --- broadcast 440 lbs/ac 46-0-0 --- banded --split application	Sencor DF + Dual II Mag. Premerge
3	NORTH DAKOTA (ND) Oberg Farms Hoople, ND	Dr. Susie Thompson Bryce Farnsworth VOICE: 701-231-8160		
4	NORTH DAKOTA (ND) NPPGA Research Farm Tappen, ND	Dr. Susie Thompson Bryce Farnsworth VOICE: 701-231-8160		
5	WISCONSIN (WI) UW-Hancock Res. Farm Hancock, WI	Dr. Jiwan Palta Dr. Felix Navarro VOICE: 608-262-1878	3/31/2010: 500 lbs/acre 0-0-0-17S-21Ca, Calcium Sulfate 3/31/2010: 385 lbs/acre 0-0-60 Potash 4/28/2010: 550 lbs/acre 6-30-22-4S+micros with Platinum 5/14/2010: 360 lbs/acre 21-0-0-24S (IrrigAid Gold) 6/01/2010 350 lbs/acre 34-0-0 Ammonium Nitrate 6/24/2010 150 lbs/acre 34-0-0 Ammonium Nitrate 7/02/2010 100 lbs/acre 34-0-0 Ammonium Nitrate 7/16/2010 104 lbs/acre 32-0-0 UAN	5/15: 0.5 lb/a Metribuzin 5/15: 1pt/a Paralell 6/17: 1.5 oz/a Matrix 8/23: 1.5 pt/a Diquat E 8/30: 1.5 pt/a Diquat E
6	MANITOBA (MB) Morden, MB, Canada	Dr. Benoit Bizimungu VOICE: 506-452-4880	N = 174lbs/A, P = 95lbs/A, K = 50lbs/A	Prism Sencor

North Central Regional Potato Variety Trial-2010**TABLE 2. Locations, Cooperators, and Cultural Information.**

Site No.	Locations	Cooperators	Cultural Information	
			Insecticides	Fungicides
1	MICHIGAN (MI) Montcalm Research Farm Entrican, MI	Dr. Dave Douches Joe Coombs VOICE: 517-353-3145	Admire at planting	Weekly fungicides
2	MINNESOTA (MN) UM-Sand Plain Res Farm Becker, MN	Dr. Christian Thill Jeff Miller VOICE: 612-624-9737	Admire Pro, Radiant, BayThroid, Dimethoate Thionex, Coragen, Permethrin, Rimon	Quadris, Ultra-Flourish Bravo, PolyRam, Previcur Endura, Kocide, Curzate Tanos
3	NORTH DAKOTA (ND) Oberge Farms Hoople, ND	Dr. Susie Thompson Bryce Farnsworth VOICE: 701-231-8160		
4	NORTH DAKOTA (ND) NPPGA Research Farm Tappen, ND	Dr. Susie Thompson Bryce Farnsworth VOICE: 701-231-8160		
5	WISCONSIN (WI) UW-Hancock Res. Farm Hancock, WI	Dr. Jiwan Palta Dr. Felix Navarro VOICE: 608-262-1878	7/23: 5 fl oz Coragen	6/10: 2.125 pt/a Bravo Zn + 2 pt/a Champ FormulalI 6/15: 2.125 pt/a Bravo Zn + 8oz/a Tanos 6/21: 2 pt/a Bravo Zn + Headline 8 fl oz/a 6/28: 2 pt/a Bravo Zn 7/6: 3.5oz/a Endura + 2 pt/a EquusZN 7/13: 12 fl oz/a Abba 0.15 EC 7/20: 2 pt/a Bravo Zn + 3.5 oz/a Endura 7/25: 1.87 oz/a Agri-Tin 80WP + 2 lbs/a Manzate Pro-Stick
6	MANITOBA (MB) Morden, MB, Canada	Dr. Benoit Bizimungu VOICE: 506-452-4880	N/A	Dithane DG Bravo 500 Revus

North Central Regional Potato Variety Trial-2010

TABLE 2. Locations, Cooperators, and Cultural Information.

Site No.	Locations	Cooperators	Cultural Information
			Other Information
1	MICHIGAN (MI) Montcalm Research Farm Entrican, MI	Dr. Dave Douches Joe Coombs VOICE: 517-353-3145	
2	MINNESOTA (MN) UM-Sand Plain Res Farm Becker, MN	Dr. Christian Thill Jeff Miller VOICE: 612-624-9737	
3	NORTH DAKOTA (ND) Oberge Farms Hoople, ND	Dr. Susie Thompson Bryce Farnsworth VOICE: 701-231-8160	
4	NORTH DAKOTA (ND) NPPGA Research Farm Tappen, ND	Dr. Susie Thompson Bryce Farnsworth VOICE: 701-231-8160	
5	WISCONSIN (WI) UW-Hancock Res. Farm Hancock, WI	Dr. Jiwan Palta Dr. Felix Navarro VOICE: 608-262-1878	7/30: 1.87 oz/a Agri-Tin 80WP + 2 lbs/a Manzate Pro-Stick 8/4: 2 pt/a EquusZN 8/9: 2.125 pt/a Bravo Zn + 2 lbs/a Manzate Pro-Stick 8/14: 2 pt/a EquusZN 8/19: 8oz/a Tanos + 2 lbs/a Manzate Pro-Stick 8/24: 2 pt/a EquusZN
6	MANITOBA (MB) Morden, MB, Canada	Dr. Benoit Bizimungu VOICE: 506-452-4880	Rainfall = 21in Irrigation = 1in

North Central Regional Potato Variety Trial - 2010 - Red Entries

Entry

No. Clone

1) **ND8314-1R**

Flesh: W



2) **ND8555-8R**

Flesh: Cream



3) **W2609-1R**

Flesh: Cream



4) **Red Norland**

Flesh: W



5) **Red Pontiac**

Flesh: Cream



2010 North Central Regional Potato Variety Trial - Table 7

Summary Table: Maturity, Ylds (cwt/a), Gravity, Scab, External/Internal Defects

Red

Entry No: 5

Entered By: Chk

Program

MAN

MI

MN

ND*

WI

ND*

Red Norland

Red Pontiac

Red Pontiac										
Mat ¹	SpGr ²	Total Yld	A's	B's	Culls	% US # 1	Chip ³	Scab ⁴		LB ⁵
		cwt/a						Severity	Coverage	Score
5.0	1.073	538	431	31	75	80	-	1	1	
2.1	1.061	421	303	42	13	87	3.5	4.5	-	
3.5	1.059	616	574	35	7	93	9.0	3	5	9
3.0	1.064	323	77	10	1	25	-	1	T	
2.0	1.051	427	322	8	97	41	-	3.8	-	
3.5	1.087	334	198	32	9	59	-	1	T	
-	-	-	-	-	-	-	-	-	-	-
3.4	1.062	465	341	25	39	65	-	2.7	3	9

	External Defects (%)					Internal Defects (%)					
	Scab	GC	2 ⁰ Gr.	Grn	Rot	Free	HH	IN	VD	BC	Free
MAN	33	0	0	0	1	66	0	0	0	0	100
MI	-	-	-	-	-	-	5	0	5	0	90
MN	0	0	-	0	-	100	0	0	0	0	100
ND*	25	0	4	0	0	71	0	0	16	0	84
WI	14.3	2.5	1.3	7.9	0.4	73.7	0.9	0.2	6.4	0.0	92.4
ND*	9	2	0	0	0	85	1	0	16	0	84
Red Norland	-	-	-	-	-	-	-	-	-	-	-
Red Pontiac	18.1	0.6	1.8	2.0	0.5	77.7	1.2	0.0	5.5	0.0	93.3

1) MN maturity rating = 1 Early, 2 Medium-early, 3 Medium, 4 Medium-late, 5 Late

1) ND maturity scale: 1=very early, 5=very late

1) WI readings = Plant Vigor (Not included in average)

2) MN Specific gravity determination: [weight in air/(weight in air - weight in water)]

3) MI Chip = 1 - 5; 2.5 = Unacceptable

3) MN Chip = 2 - 10; 5 = Unacceptable

3) ND chip score reported as USDA color chart values 1=white, 10=unacceptably dark.

4) MN Scab Severity: 1 (Small, Surface) - 3 (Very large pustules, Pitted)

4) MN Scab Coverage: 1=<2%, 2=2-5%, 3=5-10%, 4=10-25%, 5=25-50%, 6>50%

4) ND Scab rating...0 equals no infection, other scores per Severity/Coverage footnote description.

5) MN LB Scale: (% defoliation) 1=0, 2=0<5, 3=5<15, 4=15<35, 5=35<65, 6=65<85, 7=85<95, 8=95<100, 9 = 100

* ND non-irrigated sites at Hoople (chip) and Crystal (red fresh), irrigated sites at Larimore (proc only) and Inkster (fresh, chip and processing)

North Central Regional Potato Variety Trial in 2010 - Red Comments

Sort 2	Clone		Rep	Comments/Notes	K/D
1	ND8314-1R	BL	1	Red, Rnd-oval, Ex. Color, yld	K
2	ND8314-1R	BL	2	Red, Rnd-oval, Good color/skin, Some off-types, Knobs, Flattened, Ex. Yld	K-
3	ND8314-1R	BL	3	Red, Some off-types	K-
4	ND8314-1R	BL	4	Red, Rnd-oval, Stolons, Some off types, Ex. Yld	K-
5	ND8314-1R	WI		somewhat flat, round oval, excellent skin texture and color, good internal and external quality, small tuber size	
6	ND8555-8R	BL	1	Red, Rnd, Good color, Skins, Unif. Shape/ size, Med size, Ex. Yld	K
7	ND8555-8R	BL	2	Red, Rnd-oval, Ex. Color, Skins, Unif. shape/size, Ex-yld, Med-lge size	K
8	ND8555-8R	BL	3	Red, Rnd-ovl, Ex. Color, Skins, Pitted Scab, Unif. Shape/size Few dumbbells	D
9	ND8555-8R	BL	4	Red, Rnd-oval. Ex. Color, Skins, Unif. Shpe/size, Ex. yld, Attractive	K
10	ND8555-8R	WI		Excellent color off the field, some netting and silver scurf	
11	W2609-1R	BL	1	Red, Rnd-oval, Ex. Color, skins, Unif. Shape/size, Med-lge. Ex. Yld	K
12	W2609-1R	BL	2	Red, Rnd Ex. Color, Few off-types, Ex. Yld	K
13	W2609-1R	BL	3	Red, Rnd-oval, Ex. Color/skin, Ex. Yld	K
14	W2609-1R	BL	4	Red, Rnd-oval, Good color, Skins, Unif. Size, Med-lge, Ex-yld	K-
15	W2609-1R	WI		silver scurf, mid red color, very nice size, some skinning, excellent internal/external appearance, high %US#1	
16	Red Norland	BL	1	Red, Rnd-oval, Good color, Ex. Skin, Scurf, Med-lge, Ex. Yld	K
17	Red Norland	BL	2	Red, Rnd-oval, Good color, Ex. Skin, Ex-yld, GC, Lge	K
18	Red Norland	BL	3	Red, Rnd-oval, Good color, Ex. yld	K
19	Red Norland	BL	4	Red, Rnd-oval, Good color/skin, Med-lge size	K
20	Red Norland	WI		Greening, light color, surface scab, netting, light color and silver scurf	
21	Red Pontiac	BL	1	Red, Oval-oblong, Knobs, GC, Pale, Huge, Ex-yld, Skins	D
22	Red Pontiac	BL	2	Red, Oval-oblong, Deep eyes, Huge, Pale color, Ex. yld	D
23	Red Pontiac	BL	3	Red, Oval-oblong, Deep eyes, Pale color, Huge, Ex. Yld	D
24	Red Pontiac	BL	4	Red, Pale color, Lge size, Deep eyes	D
25	Red Pontiac	WI		Scab, rough, deep eyes, light color	

North Central Regional Potato Variety Trial - 2010 - Russet Entries

Entry

No. Clone

6)

CV00047-3

Flesh: Cream



7)

CV99222-2

Flesh: Cream



8)

ND8229-3

Flesh: Cream



9)

W8946-1rus

Flesh: Cream



North Central Regional Potato Variety Trial - 2010 - Russet Entries

Entry

No. Clone

10) **Russet Burbank**

Flesh: Cream



11) **Russet Norkotah**

Flesh: Cream



2010 North Central Regional Potato Variety Trial - Table 8

Summary Table: Maturity, Ylds (cwt/a), Gravity, Scab, External/Internal Defects

Russet

Entry No: 6

Entered By: CAN

Program

MAN

MI

MN

ND - Inkster*

ND - Larimore*

WI

Avg.

Russet Burbank

Russet Norkotah

CV00047-3											
	Mat ¹	SpGr ²	Total Yld	cwt/a			% US # 1	Chip ³	Scab ⁴		LB ⁵
				A's	B's	Culls			Severity	Coverage	
	3.3	1.091	340	258	64	19	76	55.4	0	0	
	-	-	-	-	-	-	-	-	-	-	
	3.0	1.080	518	394	116	8	76	0	1	1	9
	3.0	1.083	295	203	63	4	77	-	0	0	
	1.1	1.096	298	202	56	12	76	-	0	0	
	-	-	-	-	-	-	-	-	-	-	
Avg.	2.6	1.088	363	264	75	11	76	-	0.3	0.3	9
Russet Burbank	3.1	1.078	443	298	64	36	75	-	0.5	0.0	9
Russet Norkotah	2.1	1.075	379	243	51	25	77	-	1.1	0.8	9

	External Defects (%)					Internal Defects (%)					
	Scab	GC	2 ⁰ Gr.	Grn	Rot	Free	HH	IN	VD	BC	Free
MAN	0	0	5	6	0	89	6	0	1	0	93
MI	-	-	-	-	-	-	-	-	-	-	-
MN	0	0	-	4	-	96	0	8	0	0	92
ND - Inkster*	0	0	2	0	0	98	0	0	8	0	92
ND - Larimore*	0	2	8	0	0	90	6	0	10	0	84
WI	-	-	-	-	-	-	-	-	-	-	-
Avg.	0	1	5	3	0	93	3	2	5	0	90
Russet Burbank	2.1	2.0	25.3	0.3	0.3	76.5	15.5	0.0	2.2	0.4	81.9
Russet Norkotah	0.0	1	3	0	1	96	11	0.2	5.2	0.4	84

1) MN maturity rating = 1 Early, 2 Medium-early, 3 Medium, 4 Medium-late, 5 Late

1) ND maturity scale: 1=very early, 5=very late

1) WI readings = Plant Vigor (Not included in average)

2) MN Specific gravity determination: **[weight in air/(weight in air - weight in water)]**

3) MI Chip = 1 - 5; 2.5 = Unacceptable

3) MN Chip = 2 - 10; 5 = Unacceptable

3) ND chip score reported as USDA color chart values 1=white, 10=unacceptably dark.

4) MN Scab Severity: 1 (Small, Surface) - 3 (Very large pustules, Pitted)

4) MN Scab Coverage: 1=< 2%, 2=2-5%, 3=5-10%, 4=10-25%, 5=25-50%, 6>50%

4) ND Scab rating...0 equals no infection, other scores per Severity/Coverage footnote description.

5) MN LB Scale: (% defoliation) 1=0, 2=0<5, 3=5<15, 4=15<35, 5=35<65, 6=65<85, 7=85<95, 8=95<100, 9 = 100

* ND non-irrigated sites at Hoople (chip) and Crystal (red fresh), irrigated sites at Larimore (proc only) and Inkster (fresh, chip and processing)

2010 North Central Regional Potato Variety Trial - Table 11

Summary Table: Maturity, Ylds (cwt/a), Gravity, Scab, External/Internal Defects

Russet

Entry No: 9

Entered By: WI

Program

MAN

MI

MN

ND - Inkster*

ND - Larimore*

WI

Avg.

Russet Burbank

Russet Norkotah

W8946-1rus											
Mat ¹	SpGr ²	Total Yld	A's	B's	Culls	% US # 1	Chip ³	Scab ⁴		LB ⁵	
		cwt/a							Severity	Coverage	Score
MAN	5.0	1.101	395	282	113	0	71	45.1	0	0	
MI	3.8	1.091	391	223	141	20	58	-	1.3	-	
MN	4.0	1.091	546	298	237	12	55	0	1.5	1	7
ND - Inkster*	3.3	1.091	481	366	87	7	80	-	0	0	
ND - Larimore*	1.9	1.116	285	193	74	7	70	-	0	0	
WI	2.3	1.085	415	356	45	14	81	-	1.1	-	
Avg.	3.6	1.096	419	286	116	10	69	-	0.6	0.3	7
Russet Burbank	3.1	1.078	443	298	64	36	75	-	0.5	0.0	9
Russet Norkotah	2.1	1.075	379	243	51	25	77	-	1.1	0.8	9

External Defects (%)						Internal Defects (%)					
Scab	GC	2 ⁰ Gr.	Grn	Rot	Free	HH	IN	VD	BC	Free	
MAN	0	0	0	0	0	100	0	0	1	0	99
MI	-	-	-	-	-	-	0	3	8	0	89
MN	4	0	-	4	-	92	0	0	0	0	100
ND - Inkster*	0	1	7	0	0	92	0	0	10	0	90
ND - Larimore*	4	4	0	0	0	92	0	0	1	0	99
WI	0.0	0.6	0.4	1.0	0.1	98.0	0.4	0.0	2.58	0.0	97.0
Avg.	1.6	1.1	1.8	1.0	0.0	94.8	0.1	0.4	3.7	0.0	95.7
Russet Burbank	2.1	2.0	25.3	0.3	0.3	76.5	15.5	0.0	2.2	0.4	81.9
Russet Norkotah	0.0	1	3	0	1	96	11	0.2	5.2	0.4	84

1) MN maturity rating = 1 Early, 2 Medium-early, 3 Medium, 4 Medium-late, 5 Late

1) ND maturity scale: 1=very early, 5=very late

1) WI readings = Plant Vigor (Not included in average)

2) MN Specific gravity determination: $[\text{weight in air}/(\text{weight in air} - \text{weight in water})]$

3) MI Chip = 1 - 5; 2.5 = Unacceptable

3) MN Chip = 2 - 10; 5 = Unacceptable

3) ND chip score reported as USDA color chart values 1=white, 10=unacceptably dark.

4) MN Scab Severity: 1 (Small, Surface) - 3 (Very large pustules, Pitted)

4) MN Scab Coverage: 1=<2%, 2=2-5%, 3=5-10%, 4=10-25%, 5=25-50%, 6>50%

4) ND Scab rating...0 equals no infection, other scores per Severity/Coverage footnote description.

5) MN LB Scale: (% defoliation) 1=0, 2=0<5, 3=5<15, 4=15<35, 5=35<65, 6=65<85, 7=85<95, 8=95<100, 9 = 100

* ND non-irrigated sites at Hoople (chip) and Crystal (red fresh), irrigated sites at Larimore (proc only) and Inkster (fresh, chip and processing)

2010 North Central Regional Potato Variety Trial - Table 12

Summary Table: Maturity, Ylds (cwt/a), Gravity, Scab, External/Internal Defects

Russet

Entry No: 10

Entered By: Chk

Program

MAN

MI

MN

ND - Inkster*

ND - Larimore*

WI

Russet Burbank

Russet Norkotah

Russet Burbank											
Mat ¹	SpGr ²	Total Yld	A's	B's	Culls	% US # 1	Chip ³	Scab ⁴		LB ⁵	
		cwt/a							Severity	Coverage	Score
4.5	1.080	402	305	69	23	76	38.7	0	0		
1.4	1.064	252	151	93	3	62	-	2.3	-		
4.0	1.074	674	562	89	23	83	2.3	0	0	9	
3.5	1.077	495	281	42	89	73	-	0	0		
2.0	1.095	391	191	24	45	82	-	0	0		
2.1	1.073	504	390	62	52	64	-	1.1	-		
3.1	1.078	443	298	64	36	75	-	0.5	0.0	9	
-	-	-	-	-	-	-	-	-	-	-	

External Defects (%)						Internal Defects (%)					
Scab	GC	2 ⁰ Gr.	Grn	Rot	Free	HH	IN	VD	BC	Free	
MAN	0	2	11	0	1	86	27	0	0	2	71
MI	-	-	-	-	-	-	0	0	5	0	95
MN	8	0	-	0	-	92	13	0	0	0	88
ND - Inkster*	0	4	41	1	0	54	1	0	6	0	93
ND - Larimore*	0	2	24	0	0	74	37	0	0	0	63
WI	0.0	1.2	1.2	1.7	0.3	95.6	2.0	5.1	0.3	1.2	91.3
Russet Burbank	2.1	2.0	25.3	0.3	0.3	76.5	15.5	0.0	2.2	0.4	81.9
Russet Norkotah	-	-	-	-	-	-	-	-	-	-	-

1) MN maturity rating = 1 Early, 2 Medium-early, 3 Medium, 4 Medium-late, 5 Late

1) ND maturity scale: 1=very early, 5=very late

1) WI readings = Plant Vigor (Not included in average)

2) MN Specific gravity determination: **[weight in air/(weight in air - weight in water)]**

3) MI Chip = 1 - 5; 2.5 = Unacceptable

3) MN Chip = 2 - 10; 5 = Unacceptable

3) ND chip score reported as USDA color chart values 1=white, 10=unacceptably dark.

4) MN Scab Severity: 1 (Small, Surface) - 3 (Very large pustules, Pitted)

4) MN Scab Coverage: 1=< 2%, 2=2-5%, 3=5-10%, 4=10-25%, 5=25-50%, 6>50%

4) ND Scab rating...0 equals no infection, other scores per Severity/Coverage footnote description.

5) MN LB Scale: (% defoliation) 1=0, 2=0<5, 3=5<15, 4=15<35, 5=35<65, 6=65<85, 7=85<95, 8=95<100, 9 = 100

* ND non-irrigated sites at Hoople (chip) and Crystal (red fresh), irrigated sites at Larimore (proc only) and Inkster (fresh, chip and processing)

North Central Regional Potato Variety Trial in 2010 - Russet Comments

Sort 2	Clone		Rep	Comments/Notes	K/D
26	CV00047-3	BL	1	Rus, Oblong, Good length, Unif. Shape, Ex. Yld	K
27	CV00047-3	BL	2	Rus, Oval-oblong, Too many small, More oval, Good yld	D
28	CV00047-3	BL	3	Rus, GC, Oval-oblong, V's, Short-med lngth, Good size	K
29	CV00047-3	BL	4	Rus, Ex. Yld, Unif. Shape/size, Med lugth, Blocky types	K
30	CV00047-3	WI		Not received	
31	CV99222-2	BL	1	Rus, Oblong, Crescents, knobs, Short-med length, Pitted Scab, Ex. Yld	D
32	CV99222-2	BL	2	Rus, Good yld, Oval-oblong, Too small, short, Too many oval	D
33	CV99222-2	BL	3	Rus, Pitted scab, Too many small, Ex. Yld, Too short overall	D
34	CV99222-2	BL	4	Rus, Oval-oblong, V's, Crescents, Unif. Shape/size, Superb yld	K
35	CV99222-2	WI		Not received	
36	ND8229-3	BL	1	Rus, Unif. Shape/size, Good length, Ex-yld, Attractive	K
37	ND8229-3	BL	2	Rus, Oblong, Unif. Shape/size, Ex. Yld, Attractive, 2 w/elephant hide	K
38	ND8229-3	BL	3	Rus, Shallow eyes, Oblong, Good length, Attractive	K
39	ND8229-3	BL	4	Rus, Oblong, Good length, size, Attractive	K
40	ND8229-3	WI		Nice type, size, blocky, smooth, uniform	
41	W8946-1rus	BL	1	Rus, Ex. Yld, Too small/short	D
42	W8946-1rus	BL	2	Rus, Ex. Yld, Oval-oblong, Too many small/short	D
43	W8946-1rus	BL	3	Rus, Ex. Yld, Oval-oblong, Too short/small, (FM?)	D
44	W8946-1rus	BL	4	Rus, Knobs GC, Oval-oblong, Short, Too short, Small FM?	D
45	W8946-1rus	WI		Maybe too small, uniform	
46	Russet Burbank	BL	1	Rus, Oblong-long, Knobs, Hooks, Superior yld	D
47	Russet Burbank	BL	2	Rus, Ex. lngth, Knobs, Crescents, Ex-yld	D
48	Russet Burbank	BL	3	Rus, Ex.lngth, Knobs, Dumbbells, Superb yld	K-
49	Russet Burbank	BL	4	Rus, Oblong, Crescents, Points, Long, Superb yld	K
50	R. Burbank	WI		Very long & narrow &variable shape	
51	Russet Norkotah	BL	1	Rus, Oblong, Unif. Shape/size, Ex-yld	K+
52	Russet Norkotah	BL	2	Rus, oblong, Ex. Skin, Unif. Shape, Attractive	K+
53	Russet Norkotah	BL	3	Rus, Oblong, Unif. Shape/size, Ex. Yld	K+
54	Russet Norkotah	BL	4	Rus, Unif. Shpe/size, Ex. Yld, Lge size, Attractive	K+
55	R. Norkotah	WI		Very uniform, blocky, net is set	

North Central Regional Potato Variety Trial - 2010 - White Entries

Entry

No. Clone

12) **MSL211-3**

Flesh: Cream



13) **MSL268-D**

Flesh: Cream



14) **MSM182-1**

Flesh: Cream



15) **MSQ176-5**

Flesh: Cream



16) **ND8307C-3**

Flesh: Cream



17) **W2717-5**

Flesh: Cream



18) **W2978-3**

Flesh: Cream



19) **W5015-12**

Flesh: Cream



20) **Atlantic**

Flesh: Cream



21) **NorValley**

Flesh: Cream



22) **Snowden**

Flesh: W



2010 North Central Regional Potato Variety Trial - Table 14

Summary Table: Maturity, Ylds (cwt/a), Gravity, Scab, External/Internal Defects

White

Entry No: 12

Entered By: MI

Program

MAN

MI

MN

ND - Inkster*

WI

Avg.

ND - Hoople*

Atlantic

NorValley

Snowden

MSL211-3											
Mat ¹	SpGr ²	Total Yld	A's	B's	Culls	% US # 1	Chip ³	Scab ⁴		LB ⁵	
		cwt/a							Severity	Coverage	Score
-	-	-	-	-	-	-	-	-	-	-	
1.3	1.068	458	371	46	9	89	2.5	2.2	-		
3.0	1.069	678	538	135	5	79	8.0	2.5	2	9	
3.5	1.072	215	134	41	3	78	7.3	1	T		
2.0	1.064	433	354	21	58	69	-	1.1	-		
2.6	1.068	446	349	61	19	79	-	1.7	2.0	9	
2.3	1.074	143	77	59	0	58	5.5	1	T		
3.1	1.090	443	360	51	15	78	-	1.9	4	9	
2.7	1.074	429	358	47	16	82	-	2.0	1.5	9	
3.0	1.086	481	387	76	9	80	-	1.7	2.3	9	

	External Defects (%)					Internal Defects (%)					
	Scab	GC	2 ⁰ Gr.	Grn	Rot	Free	HH	IN	VD	BC	Free
MAN	-	-	-	-	-	-	-	-	-	-	-
MI	-	-	-	-	-	-	0	0	3	0	97
MN	0	0	-	0	-	100	0	0	0	0	100
ND - Inkster*	13	3	1	1	0	82	0	0	2	0	98
WI	0.1	2.0	0.1	9.4	0.4	88.0	0.9	0.2	0.0	0.0	98.8
Avg.	4.4	1.7	0.6	3.5	0.2	90.0	0.2	0.0	1.1	0.0	98.5
ND - Hoople*	6	0	0	0	0	94	0	0	20	0	80
Atlantic	6.7	0.8	1.2	1.3	0.0	90.4	18.9	8.4	6.8	0.7	67.5
NorValley	2.9	0.3	3.1	3.1	0.1	92.0	0.1	0	0.3	0.3	99.3
Snowden	5.8	0.1	0.0	1.4	0.0	90.1	4.5	0.0	3.4	0.4	90.8

1) MN maturity rating = 1 Early, 2 Medium-early, 3 Medium, 4 Medium-late, 5 Late

1) ND maturity scale: 1=very early, 5=very late

1) WI readings = Plant Vigor (Not included in average)

2) MN Specific gravity determination: $[\text{weight in air}/(\text{weight in air} - \text{weight in water})]$

3) MI Chip = 1 - 5; 2.5 = Unacceptable

3) MN Chip = 2 - 10; 5 = Unacceptable

3) ND chip score reported as USDA color chart values 1=white, 10=unacceptably dark.

4) MN Scab Severity: 1 (Small, Surface) - 3 (Very large pustules, Pitted)

4) MN Scab Coverage: 1=<2%, 2=2-5%, 3=5-10%, 4=10-25%, 5=25-50%, 6>50%

4) ND Scab rating...0 equals no infection, other scores per Severity/Coverage footnote description.

5) MN LB Scale: (% defoliation) 1=0, 2=0<5, 3=5<15, 4=15<35, 5=35<65, 6=65<85, 7=85<95, 8=95<100, 9 = 100

* ND non-irrigated sites at Hoople (chip) and Crystal (red fresh), irrigated sites at Larimore (proc only) and Inkster (fresh, chip and processing)

2010 North Central Regional Potato Variety Trial - Table 15

Summary Table: Maturity, Ylds (cwt/a), Gravity, Scab, External/Internal Defects

White

Entry No: 13

Entered By: MI

Program

MAN

MI

MN

ND - Inkster*

WI

Avg.

ND - Hoople*

Atlantic

NorValley

Snowden

MSL268-D										
Mat ¹	SpGr ²	Total Yld	A's	B's	Culls	% US # 1	Chip ³	Scab ⁴		LB ⁵
		cwt/a						Severity	Coverage	Score
-	-	-	-	-	-	-	-	-	-	-
1.8	1.081	419	339	67	8	82	1.0	3	-	
4.0	1.083	739	562	146	31	76	6.0	3	3	9
3.3	1.082	333	203	90	5	71	4.3	1	T	
2.5	1.076	447	383	12	52	76	-	2.1	-	
3.0	1.081	485	372	79	24	76	-	2.3	3.0	9
3	1.098	244	121	112	0	56	4.0	1	T	
3.1	1.090	443	360	51	15	78	-	1.9	4	9
2.7	1.074	429	358	47	16	82	-	2.0	1.5	9
3.0	1.086	481	387	76	9	80	-	1.7	2.3	9

	External Defects (%)					Internal Defects (%)					
	Scab	GC	2 ⁰ Gr.	Grn	Rot	Free	HH	IN	VD	BC	Free
MAN	-	-	-	-	-	-	-	-	-	-	-
MI	-	-	-	-	-	-	0	0	10	0	90
MN	4	4	-	0	-	92	4	0	0	0	96
ND - Inkster*	12	0	7	0	0	82	0	0	7	0	90
WI	0.0	4.0	0.6	2.5	0.7	92.2	0.9	1.3	0.0	0.0	97.7
Avg.	5.3	2.7	3.8	0.8	0.4	88.7	1.3	0.3	4.3	0.0	93.4
ND - Hoople*	3	0	1	0	0	96	1	0	32	0	68
Atlantic	6.7	0.8	1.2	1.3	0.0	90.4	18.9	8.4	6.8	0.7	67.5
NorValley	2.9	0.3	3.1	3.1	0.1	92.0	0.1	0	0.3	0.3	99.3
Snowden	5.8	0.1	0.0	1.4	0.0	90.1	4.5	0.0	3.4	0.4	90.8

1) MN maturity rating = 1 Early, 2 Medium-early, 3 Medium, 4 Medium-late, 5 Late

1) ND maturity scale: 1=very early, 5=very late

1) WI readings = Plant Vigor (Not included in average)

2) MN Specific gravity determination: $[\text{weight in air}/(\text{weight in air} - \text{weight in water})]$

3) MI Chip = 1 - 5; 2.5 = Unacceptable

3) MN Chip = 2 - 10; 5 = Unacceptable

3) ND chip score reported as USDA color chart values 1=white, 10=unacceptably dark.

4) MN Scab Severity: 1 (Small, Surface) - 3 (Very large pustules, Pitted)

4) MN Scab Coverage: 1=<2%, 2=2-5%, 3=5-10%, 4=10-25%, 5=25-50%, 6>50%

4) ND Scab rating...0 equals no infection, other scores per Severity/Coverage footnote description.

5) MN LB Scale: (% defoliation) 1=0, 2=0<5, 3=5<15, 4=15<35, 5=35<65, 6=65<85, 7=85<95, 8=95<100, 9 = 100

* ND non-irrigated sites at Hoople (chip) and Crystal (red fresh), irrigated sites at Larimore (proc only) and Inkster (fresh, chip and processing)

2010 North Central Regional Potato Variety Trial - Table 16

Summary Table: Maturity, Ylds (cwt/a), Gravity, Scab, External/Internal Defects

White

Entry No: 14

Entered By: MI

Program

MAN

MI

MN

ND - Inkster*

WI

Avg.

ND - Hoople*

Atlantic

NorValley

Snowden

MSM182-1										
Mat ¹	SpGr ²	Total Yld	A's	B's	Culls	% US # 1	Chip ³	Scab ⁴		LB ⁵
		cwt/a						Severity	Coverage	Score
-	-	-	-	-	-	-	-	-	-	
2.0	1.068	382	298	57	4	84	2.5	3.0	-	
3.5	1.065	595	406	189	0	68	8.0	2.5	3.5	9
3.0	1.075	307	193	58	0	80	7.0	1	T	
2.1	1.066	405	379	9	17	83	-	1.5	-	
2.8	1.069	422	319	78	5	79	-	2.0	3.5	9
2.8	1.088	119	69	29	0	73	5.8	1	T	
3.1	1.090	443	360	51	15	78		1.9	4	9
2.7	1.074	429	358	47	16	82		2.0	1.5	9
3.0	1.086	481	387	76	9	80		1.7	2.3	9

	External Defects (%)					Internal Defects (%)					
	Scab	GC	2 ⁰ Gr.	Grn	Rot	Free	HH	IN	VD	BC	Free
MAN	-	-	-	-	-	-	-	-	-	-	-
MI	-	-	-	-	-	-	5	13	3	0	79
MN	0	0	-	0	-	100	0	13	0	0	88
ND - Inkster*	36	0	0	0	0	64	0	0	8	0	92
WI	1.2	0.6	0.3	1.4	0.1	96.3	1.5	5.1	0.0	0.0	93.3
Avg.	12.4	0.2	0.2	0.5	0.0	86.8	1.6	7.5	2.6	0.0	88.0
ND - Hoople*	13	0	1	0	0	86	0	0	22	0	75
Atlantic	6.7	0.8	1.2	1.3	0.0	90.4	18.9	8.4	6.8	0.7	67.5
NorValley	2.9	0.3	3.1	3.1	0.1	92.0	0.1	0	0.3	0.3	99.3
Snowden	5.8	0.1	0.0	1.4	0.0	90.1	4.5	0.0	3.4	0.4	90.8

1) MN maturity rating = 1 Early, 2 Medium-early, 3 Medium, 4 Medium-late, 5 Late

1) ND maturity scale: 1=very early, 5=very late

1) WI readings = Plant Vigor (Not included in average)

2) MN Specific gravity determination: $[\text{weight in air}/(\text{weight in air} - \text{weight in water})]$

3) MI Chip = 1 - 5; 2.5 = Unacceptable

3) MN Chip = 2 - 10; 5 = Unacceptable

3) ND chip score reported as USDA color chart values 1=white, 10=unacceptably dark.

4) MN Scab Severity: 1 (Small, Surface) - 3 (Very large pustules, Pitted)

4) MN Scab Coverage: 1=<2%, 2=2-5%, 3=5-10%, 4=10-25%, 5=25-50%, 6>50%

4) ND Scab rating...0 equals no infection, other scores per Severity/Coverage footnote description.

5) MN LB Scale: (% defoliation) 1=0, 2=0<5, 3=5<15, 4=15<35, 5=35<65, 6=65<85, 7=85<95, 8=95<100, 9 = 100

* ND non-irrigated sites at Hoople (chip) and Crystal (red fresh), irrigated sites at Larimore (proc only) and Inkster (fresh, chip and processing)

2010 North Central Regional Potato Variety Trial - Table 17

Summary Table: Maturity, Ylds (cwt/a), Gravity, Scab, External/Internal Defects

White

Entry No: 15

Entered By: MI

Program

MAN

MI

MN

ND - Inkster*

WI

Avg.

ND - Hoople*

Atlantic

NorValley

Snowden

MSQ176-5										
Mat ¹	SpGr ²	Total Yld	A's	B's	Culls	% US # 1	Chip ³	Scab ⁴		LB ⁵
		cwt/a						Severity	Coverage	Score
-	-	-	-	-	-	-	-	-	-	-
2.0	1.066	411	271	41	4	89	1.0	3.0	-	
3.8	1.069	537	426	111	0	79	7.0	2.0	5	8.5
3.8	1.073	358	226	24	0	94	5.8	1	T	
3.0	1.062	460	383	5	72	56	-	1.8	-	
3.2	1.068	441	326	45	19	79	-	1.9	5.0	9
3.8	1.081	168	93	35	0	79	4.3	1	T	
3.1	1.090	443	360	51	15	78		1.9	4	9
2.7	1.074	429	358	47	16	82		2.0	1.5	9
3.0	1.086	481	387	76	9	80		1.7	2.3	9

	External Defects (%)					Internal Defects (%)					
	Scab	GC	2 ⁰ Gr.	Grn	Rot	Free	HH	IN	VD	BC	Free
MAN	-	-	-	-	-	-	-	-	-	-	-
MI	-	-	-	-	-	-	23	5	3	0	69
MN	25	0	-	0	-	75	0	0	0	0	100
ND - Inkster*	21	1	0	1	0	77	1	0	4	1	95
WI	6.0	1.6	0.3	10.0	0.4	81.7	6.5	0.0	1.4	1.4	90.7
Avg.	17.3	0.9	0.1	3.7	0.2	77.9	7.5	1.3	2.0	0.6	88.7
ND - Hoople*	0	0	0	0	0	100	1	0	8	0	91
Atlantic	6.7	0.8	1.2	1.3	0.0	90.4	18.9	8.4	6.8	0.7	67.5
NorValley	2.9	0.3	3.1	3.1	0.1	92.0	0.1	0	0.3	0.3	99.3
Snowden	5.8	0.1	0.0	1.4	0.0	90.1	4.5	0.0	3.4	0.4	90.8

1) MN maturity rating = 1 Early, 2 Medium-early, 3 Medium, 4 Medium-late, 5 Late

1) ND maturity scale: 1=very early, 5=very late

1) WI readings = Plant Vigor (Not included in average)

2) MN Specific gravity determination: $[\text{weight in air}/(\text{weight in air} - \text{weight in water})]$

3) MI Chip = 1 - 5; 2.5 = Unacceptable

3) MN Chip = 2 - 10; 5 = Unacceptable

3) ND chip score reported as USDA color chart values 1=white, 10=unacceptably dark.

4) MN Scab Severity: 1 (Small, Surface) - 3 (Very large pustules, Pitted)

4) MN Scab Coverage: 1=<2%, 2=2-5%, 3=5-10%, 4=10-25%, 5=25-50%, 6>50%

4) ND Scab rating...0 equals no infection, other scores per Severity/Coverage footnote description.

5) MN LB Scale: (% defoliation) 1=0, 2=0<5, 3=5<15, 4=15<35, 5=35<65, 6=65<85, 7=85<95, 8=95<100, 9 = 100

* ND non-irrigated sites at Hoople (chip) and Crystal (red fresh), irrigated sites at Larimore (proc only) and Inkster (fresh, chip and processing)

2010 North Central Regional Potato Variety Trial - Table 19

Summary Table: Maturity, Ylds (cwt/a), Gravity, Scab, External/Internal Defects

White

Entry No: 17

Entered By: WI

Program

MAN

MI

MN

ND - Inkster*

WI

Avg.

ND - Hoople*

Atlantic

NorValley

Snowden

W2717-5										
Mat ¹	SpGr ²	Total Yld	A's	B's	Culls	% US # 1	Chip ³	Scab ⁴		LB ⁵
		cwt/a						Severity	Coverage	Score
MAN	3.5	1.095	284	191	65	3	66	56.9	1	T
MI	1.1	1.088	282	231	45	3	82	1.5	3.0	-
MN	3.0	1.087	477	343	127	6	72	5.0	3.0	1.5
ND - Inkster*	2.9	1.091	331	198	68	1	78	3.3	1	T
WI	2.1	1.080	347	307	24	16	76	-	1.8	-
Avg.	2.6	1.088	344	254	66	6	75	-	2.0	1.5
ND - Hoople*	2.0	1.097	182	96	42	6	72	3.3	1	T
Atlantic	3.1	1.090	443	360	51	15	78		1.9	4
NorValley	2.7	1.074	429	358	47	16	82		2.0	1.5
Snowden	3.0	1.086	481	387	76	9	80		1.7	2.3

	External Defects (%)					Internal Defects (%)					
	Scab	GC	2 ⁰ Gr.	Grn	Rot	Free	HH	IN	VD	BC	Free
MAN	24	0	0	0	7	69	5	1	30	0	64
MI	-	-	-	-	-	-	5	3	10	3	79
MN	0	0	-	0	-	100	8	0	0	4	88
ND - Inkster*	7	1	0	0	0	83	0	0	5	1	94
WI	0.2	1.5	0.0	4.6	0.1	93.6	1.5	2.4	1.1	1.1	93.9
Avg.	7.8	0.6	0.0	1.2	2.4	86.4	4.0	1.2	9.2	1.8	83.7
ND - Hoople*	0	0	6	0	0	94	3	0	32	0	65
Atlantic	6.7	0.8	1.2	1.3	0.0	90.4	18.9	8.4	6.8	0.7	67.5
NorValley	2.9	0.3	3.1	3.1	0.1	92.0	0.1	0	0.3	0.3	99.3
Snowden	5.8	0.1	0.0	1.4	0.0	90.1	4.5	0.0	3.4	0.4	90.8

1) MN maturity rating = 1 Early, 2 Medium-early, 3 Medium, 4 Medium-late, 5 Late

1) ND maturity scale: 1=very early, 5=very late

1) WI readings = Plant Vigor (Not included in average)

2) MN Specific gravity determination: $[\text{weight in air}/(\text{weight in air} - \text{weight in water})]$

3) MI Chip = 1 - 5; 2.5 = Unacceptable

3) MN Chip = 2 - 10; 5 = Unacceptable

3) ND chip score reported as USDA color chart values 1=white, 10=unacceptably dark.

4) MN Scab Severity: 1 (Small, Surface) - 3 (Very large pustules, Pitted)

4) MN Scab Coverage: 1=<2%, 2=2-5%, 3=5-10%, 4=10-25%, 5=25-50%, 6>50%

4) ND Scab rating: ...0 equals no infection, other scores per Severity/Coverage footnote description.

5) MN LB Scale: (% defoliation) 1=0, 2=0<5, 3=5<15, 4=15<35, 5=35<65, 6=65<85, 7=85<95, 8=95<100, 9 = 100

* ND non-irrigated sites at Hoople (chip) and Crystal (red fresh), irrigated sites at Larimore (proc only) and Inkster (fresh, chip and processing)

2010 North Central Regional Potato Variety Trial - Table 20

Summary Table: Maturity, Ylds (cwt/a), Gravity, Scab, External/Internal Defects

White

Entry No: 18

Entered By: WI

Program

MAN

MI

MN

ND - Inkster*

WI

Avg.

ND - Hoople*

Atlantic

NorValley

Snowden

W2978-3										
Mat ¹	SpGr ²	Total Yld	A's	B's	Culls	% US # 1	Chip ³	Scab ⁴		LB ⁵
		cwt/a						Severity	Coverage	Score
MAN	3.0	1.083	367	265	100	2	72	53.6	1	T
MI	1.1	1.072	322	238	74	0	77	1.0	3.5	-
MN	3.0	1.081	593	448	145	0	76	5.5	3.0	4.0
ND - Inkster*	3.0	1.072	324	193	82	0	74	2.5	1	T
WI	2.3	1.068	314	282	13	19	85	-	1.1	-
Avg.	2.5	1.075	384	285	83	4	77	-	1.9	4.0
ND - Hoople*	2.3	1.093	121	45	74	0	48	3.5	1	T
Atlantic	3.1	1.090	443	360	51	15	78	-	1.9	4
NorValley	2.7	1.074	429	358	47	16	82	-	2.0	1.5
Snowden	3.0	1.086	481	387	76	9	80	-	1.7	2.3

	External Defects (%)					Internal Defects (%)					
	Scab	GC	2 ⁰ Gr.	Grn	Rot	Free	HH	IN	VD	BC	Free
MAN	20	0	0	1	0	79	0	0	1	0	99
MI	-	-	-	-	-	-	0	0	0	0	100
MN	0	0	-	0	-	100	0	0	0	0	100
ND - Inkster*	6	1	0	1	0	92	0	0	3	0	97
WI	0.0	1.4	0.0	2.4	0.1	96.1	0.4	0.0	0.0	0.0	99.5
Avg.	6.5	0.6	0.0	1.1	0.0	91.8	0.1	0.0	0.8	0.0	99.1
ND - Hoople*	0	0	2	0	0	95	0	0	18	1	76
Atlantic	6.7	0.8	1.2	1.3	0.0	90.4	18.9	8.4	6.8	0.7	67.5
NorValley	2.9	0.3	3.1	3.1	0.1	92.0	0.1	0	0.3	0.3	99.3
Snowden	5.8	0.1	0.0	1.4	0.0	90.1	4.5	0.0	3.4	0.4	90.8

1) MN maturity rating = 1 Early, 2 Medium-early, 3 Medium, 4 Medium-late, 5 Late

1) ND maturity scale: 1=very early, 5=very late

1) WI readings = Plant Vigor (Not included in average)

2) MN Specific gravity determination: $[\text{weight in air}/(\text{weight in air} - \text{weight in water})]$

3) MI Chip = 1 - 5; 2.5 = Unacceptable

3) MN Chip = 2 - 10; 5 = Unacceptable

3) ND chip score reported as USDA color chart values 1=white, 10=unacceptably dark.

4) MN Scab Severity: 1 (Small, Surface) - 3 (Very large pustules, Pitted)

4) MN Scab Coverage: 1=<2%, 2=2-5%, 3=5-10%, 4=10-25%, 5=25-50%, 6>50%

4) ND Scab rating...0 equals no infection, other scores per Severity/Coverage footnote description.

5) MN LB Scale: (% defoliation) 1=0, 2=0<5, 3=5<15, 4=15<35, 5=35<65, 6=65<85, 7=85<95, 8=95<100, 9 = 100

* ND non-irrigated sites at Hoople (chip) and Crystal (red fresh), irrigated sites at Larimore (proc only) and Inkster (fresh, chip and processing)

2010 North Central Regional Potato Variety Trial - Table 22

Summary Table: Maturity, Ylds (cwt/a), Gravity, Scab, External/Internal Defects

White

Entry No: 20

Entered By: Chk

Program

MAN

MI

MN

ND - Inkster*

WI

ND - Hoople*

Atlantic

NorValley

Snowden

Atlantic										
Mat ¹	SpGr ²	Total Yld	A's	B's	Culls	% US # 1	Chip ³	Scab ⁴		LB ⁵
cwt/a								Severity	Coverage	Score
4.3	1.098	441	343	82	15	78	47.6	1	T	
1.8	1.086	420	315	38	8	89	1.5	2.9	-	
3.5	1.088	597	495	94	9	83	6.0	3	4	9
3.0	1.089	309	258	30	2	89	4.3	1	T	
2.1	1.088	445	390	12	42	53	-	1.5	-	
2.1	1.107	177	115	31	1	81	3.3	1	T	
3.1	1.090	443	360	51	15	78	-	1.9	4.0	9
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

MAN

MI

MN

ND - Inkster*

WI

ND - Hoople*

Atlantic

NorValley

Snowden

	External Defects (%)					Internal Defects (%)					
	Scab	GC	2 ⁰ Gr.	Grn	Rot	Free	HH	IN	VD	BC	Free
MAN	9	0	0	0	0	91	8	1	2	0	89
MI	-	-	-	-	-	-	53	13	13	0	21
MN	8	0	-	0	-	92	25	17	0	0	58
ND - Inkster*	9	2	3	0	0	86	1	0	16	0	96
WI	0.3	1.4	0.5	5.2	0.1	92.6	8.1	11.8	3.4	3.4	73.3
ND - Hoople*	3	0	2	0	0	93	1	0	19	0	77
Atlantic	6.7	0.8	1.2	1.3	0.0	90.4	18.9	8.4	6.8	0.7	67.5
NorValley	-	-	-	-	-	-	-	-	-	-	-
Snowden	-	-	-	-	-	-	-	-	-	-	-

1) MN maturity rating = 1 Early, 2 Medium-early, 3 Medium, 4 Medium-late, 5 Late

1) ND maturity scale: 1=very early, 5=very late

1) WI readings = Plant Vigor (Not included in average)

2) MN Specific gravity determination: **[weight in air/(weight in air - weight in water)]**

3) MI Chip = 1 - 5; 2.5 = Unacceptable

3) MN Chip = 2 - 10; 5 = Unacceptable

3) ND chip score reported as USDA color chart values 1=white, 10=unacceptably dark.

4) MN Scab Severity: 1 (Small, Surface) - 3 (Very large pustules, Pitted)

4) MN Scab Coverage: 1=<2%, 2=2-5%, 3=5-10%, 4=10-25%, 5=25-50%, 6>50%

4) ND Scab rating...0 equals no infection, other scores per Severity/Coverage footnote description.

5) MN LB Scale: (% defoliation) 1=0, 2=0<5, 3=5<15, 4=15<35, 5=35<65, 6=65<85, 7=85<95, 8=95<100, 9 = 100

* ND non-irrigated sites at Hoople (chip) and Crystal (red fresh), irrigated sites at Larimore (proc only) and Inkster (fresh, chip and processing)

2010 North Central Regional Potato Variety Trial - Table 23

Summary Table: Maturity, Ylds (cwt/a), Gravity, Scab, External/Internal Defects

White

Entry No: 21

Entered By: Chk

Program

MAN

MI

MN

ND - Inkster*

WI

ND - Hoople*

Atlantic

NorValley

Snowden

NorValley											
Mat ¹	SpGr ²	Total Yld	A's	B's	Culls	% US # 1	Chip ³	Scab ⁴		LB ⁵	
		cwt/a							Severity	Coverage	Score
-	-	-	-	-	-	-	-	-	-	-	
1.4	1.072	416	321	62	0	85	1.0	2.3	-		
3.5	1.078	551	476	69	6	86	5.5	3	1.5	9	
3.3	1.075	274	231	45	1	86	3.5	1	T		
2.0	1.072	473	403	13	57	71	-	1.8	-		
1.9	1.092	213	111	77	3	62	2.8	1	T		
-	-	-	-	-	-	-	-	-	-	-	
2.7	1.074	429	358	47	16	82	-	2.0	1.5	9	
-	-	-	-	-	-	-	-	-	-	-	

	External Defects (%)					Internal Defects (%)					
	Scab	GC	2 ⁰ Gr.	Grn	Rot	Free	HH	IN	VD	BC	Free
MAN	-	-	-	-	-	-	-	-	-	-	-
MI	-	-	-	-	-	-	0	0	0	0	100
MN	0	0	-	0	-	100	0	0	0	0	100
ND - Inkster*	7	0	6	0	0	88	0	0	0	0	100
WI	1.6	0.8	0.1	9.3	0.1	88.1	0.4	0	1.1	1.1	97.3
ND - Hoople*	0	0	13	0	0	87	0	0	10	0	90
-	-	-	-	-	-	-	-	-	-	-	-
2.9	0.3	3.1	3.1	0.1	92.0	0.1	0	0.3	0.3	99.3	
-	-	-	-	-	-	-	-	-	-	-	

1) MN maturity rating = 1 Early, 2 Medium-early, 3 Medium, 4 Medium-late, 5 Late

1) ND maturity scale: 1=very early, 5=very late

1) WI readings = Plant Vigor (Not included in average)

2) MN Specific gravity determination: **[weight in air/(weight in air - weight in water)]**

3) MI Chip = 1 - 5; 2.5 = Unacceptable

3) MN Chip = 2 - 10; 5 = Unacceptable

3) ND chip score reported as USDA color chart values 1=white, 10=unacceptably dark.

4) MN Scab Severity: 1 (Small, Surface) - 3 (Very large pustules, Pitted)

4) MN Scab Coverage: 1=<2%, 2=2-5%, 3=5-10%, 4=10-25%, 5=25-50%, 6>50%

4) ND Scab rating...0 equals no infection, other scores per Severity/Coverage footnote description.

5) MN LB Scale: (% defoliation) 1=0, 2=0<5, 3=5<15, 4=15<35, 5=35<65, 6=65<85, 7=85<95, 8=95<100, 9 = 100

* ND non-irrigated sites at Hoople (chip) and Crystal (red fresh), irrigated sites at Larimore (proc only) and Inkster (fresh, chip and processing)

North Central Regional Potato Variety Trial in 2010 - White Comments

Sort 2	Clone		Rep	Comments/Notes	K/D
56	MSL211-3	BL	1	W, Oval, Flattened, Large size, Ex. Yld	K
57	MSL211-3	BL	2	W, Rnd-oval, Flattened, Large size, Ex. Yld	K
58	MSL211-3	BL	3	W, Rnd-oval, Large size, Ex. Yld, Sprouts	K
59	MSL211-3	BL	4	W, Rnd-oval, Flattened, Large size, Ex-yld	K
60	MSL211-3	WI		Low gravity, full shape to ~flat oval, greening	
61	MSL268-D	BL	1	W, Rnd-oval, Med-lge size, Ex. Yld	K
62	MSL268-D	BL	2	W, Rnd-oval, Lumps, Knobs, Unif. Shape, Ex. Yld, Pitted Scab	K-
63	MSL268-D	BL	3	W. Oval-oblong, Knobs, Huge, Ex. Yld	D
64	MSL268-D	BL	4	W, Rnd-oval, Ex-yld, Med-lge size, Few off-types, Pitted Scab	K-
65	MSL268-D	WI		Nice, except scab, protuberant eyes-oval,	
66	MSM182-1	BL	1	W, Rnd, Shallow eyes, Lumps, Unif. Shape/size, Ex. Yld	K
67	MSM182-1	BL	2	W, Rnd, Netted, Med size, Unif. Shape/size, Ex-yld	K
68	MSM182-1	BL	3	W, Rnd Shallow eyes, Lt-net, Ex. Yld, Unif. Shape	K
69	MSM182-1	BL	4	W, Rnd-oval, Netted, Ex. Yld, Tapered/points	K-
70	MSM182-1	WI		Low gravity, alligator skin	
71	MSQ176-5	BL	1	W, Rnd, Large size, Pitted Scab/ Scabby, Ex. Yld	D
72	MSQ176-5	BL	2	W, Rnd-oval, Lt-net, Scabby, Large size, Ex-yld, shallow eyes	D
73	MSQ176-5	BL	3	W, Rnd-oval, Lt. net, Large size, Ex. Yld, Pitted Scab	K-
74	MSQ176-5	BL	4	W. Rnd-oval, Lt-net, Mel-large size, Ex-yld, Pitted Scab & Scabby!	D
75	MSQ176-5	WI		Low gravity, hollow heart, eyes, lenticels, surface scab, alligator skin	
76	ND8307C-3	BL	1	W, Rnd-oval, Flattened, GC, Med. Large size	K
77	ND8307C-3	BL	2	W, Rnd-oval-oblong, Med size, Ex. Yld	K
78	ND8307C-3	BL	3	W, Rnd, Fattened, Small-med size, Unif. Shape/size, Ex. Yld	K
79	ND8307C-3	BL	4	W, Rnd-oval, Flattened, Med-large size	K
80	ND8307C-3	WI		High gravity, heavy net, lenticels, ~flat	
81	W2717-5	BL	1	W. Rnd-oval, Flattened, Stolons, Small-med size, Good yld	K-
82	W2717-5	BL	2	W. Rnd-oval, Unif. Shape/size, Med, Flattened	K
83	W2717-5	BL	3	W, Rnd-oval, Large size, Ex-yld	K
84	W2717-5	BL	4	W, Rnd, Med-lge. Size, Ex. Yld	K-
85	W2717-5	WI		Good gravity, nice, some sticking stolons, very uniform,	

North Central Regional Potato Variety Trial in 2010 - White Comments

Sort 2	Clone		Rep	Comments/Notes	K/D
86	W2978-3	BL	1	W, Rnd-oval, Large size, Ex-yld, Shallow eyes, Lt. net, DEEP Pitted Scab	D
87	W2978-3	BL	2	W, Rnd-oval, Ex. Yld, shallow eyes, Pitted Scab	D
88	W2978-3	BL	3	W, Rnd-oval, Ex-yld, Large size, Pitted Scab	D
89	W2978-3	BL	4	W, Rnd-oval, Med-large size, Lt. net, Ex. Yld	K
90	W2978-3	WI		Low gravity, very uniform, nice tubers, yield?	
91	W5015-12	BL	1	W, Rnd-oval, Flattened,Unif. shape/size, Ex-yld, Pitted Scab	K-
92	W5015-12	BL	2	W, Rnd-oval, Med eyes, Flattened, Stolons, Dumbbells, Med. Large size, Ex. Yld	K
93	W5015-12	BL	3	W, Rnd, PPE, Med-large size, Slightly flattened	K
94	W5015-12	BL	4	W, Rnd-oval, Flattened, Med-lge size, Ex. yld	K
95	W5015-12	WI		Good gravity, ~flat, otherwise uniform, ~deep eyes	
96	Atlantic	BL	1	W, Rnd-oval, Netted, Lumps, Lge size, Ex. Yld	K
97	Atlantic	BL	2	W, Rnd-oval, Large Size, Ex. Yld, Med-deep eyes, Deep end folds, Rot	D
98	Atlantic	BL	3	W, Rnd-oval, Large-Jumbo size, Knobs, Pitted Scab	D
99	Atlantic	BL	4	W. Rnd-oval, Med-large size, Netted, Luisa, Knobs, Ex. Yld	K-
100	Atlantic	WI		High gravity, hollow heart, ibs, vd. Otherwise large size, nice tubers	
101	NorValley	BL	1	W, Rnd-oval, Lge size, GC, Ex. Yld	K
102	NorValley	BL	2	W, Rnd-oval, Lumps, Large size, Ex. yld	K
103	NorValley	BL	3	W, Rnd-oval, Large size, Lumps, Ex. Yld	K
104	NorValley	BL	4	W, Rnd-oval, Large size	K
105	NorValley	WI		Very nice, uniform full shape	
106	Snowden	BL	1	W, Rnd-oval, Med-deep eyes, Netted, Eyed, Med. Lge	K
107	Snowden	BL	2	W, Rnd-oval, Netted, Large size, Ex-yld, Lumps, Med-deep eyes	K
108	Snowden	BL	3	W, Rnd, Med-deep eyes, Netted, Med-lge size, Ex. Yld	K
109	Snowden			Deep eyes & uniform	

North Central Regional Potato Variety Trial - 2010

TABLE 25. Other Disease Rxns.

Entry No.	Clone	Irrigated					
		MAN	MI	MN ¹	WI ²		
		Rot	Blackspot Bruise	LB	Vert	EB	
		cwt/a		Final	%	Sev	Sev
<u>RED</u>							
1	ND8314-1R	7	1.0	9	94.4	4.6	5.0
2	ND8555-8R	15	1.1	9	47.7	3.3	4.3
3	W2609-1R	10	0.4	9	86.0	4.3	4.8
4	Red Norland	0	0.2	9	89.4	4.6	4.8
5	Red Pontiac	0	0.7	9	12.7	1.6	3.4
<u>RUSSET / LONG</u>							
6	CV00047-3	0	-	9	-	-	-
7	CV99222-2	0	-	9	-	-	-
8	ND8229-3	7	2.0	9	11.0	1.6	2.1
9	W8946-1rus	0	1.5	7	0.0	1.1	2.3
10	R. Burbank	5	0.1	9	27.7	2.8	2.8
11	R. Norkotah	12	0.8	9	42.7	3.3	3.8
<u>ROUND WHITE</u>							
12	MSL211-3	-	1.0	9	41.0	3.3	3.8
13	MSL268-D	-	1.5	9	16.0	2.0	3.4
14	MSM182-1	-	1.2	9	24.4	2.1	2.9
15	MSQ176-5	-	0.6	8.5	16.0	2.0	3.1
16	ND8307C-3	18	0.8	9	31.0	2.8	4.3
17	W2717-5	25	1.2	9	51.0	3.3	3.6
18	W2978-3	0	0.5	9	41.0	3.3	3.9
19	W5015-12	0	2.4	9	7.7	1.3	3.6
20	Atlantic	0	1.4	9	19.4	2.3	3.4
21	NorValley	-	1.2	9	15.5	2.6	3.9
22	Snowden	0	1.4	9	16.0	1.8	3.1

1) MN LB Scale: (% defoliation) 1=0, 2=0<5, 3=5<15, 4=15<35, 5=35<65, 6=65<85, 7=85<95, 8=95<100, 9 = 100

2) WI = % Verticillium Wilt

2) WI Verticillium Wilt Severity: (1= No symptom, 5= 100% branches); ≤ 2.5 = Acceptable.

2) WI Early Blight Severity: (1= No symptom, 5= 100% branches); ≤ 2.5 = Acceptable.

North Central Regional Potato Variety Trial - 2010

Common Scab; Becker, MN; Red Entries

Entry

No. Clone

Type	I/C		Area
	R1	R2	

1) **ND8314-1R**

Flesh: W



3	C	C	3
---	---	---	---

2) **ND8555-8R**

Flesh: Cream



2	I	C	2.5
---	---	---	-----

3) **W2609-1R**

Flesh: Cream



1.5	I	C	2
-----	---	---	---

4) **Red Norland**

Flesh: W



1	I	I	1.5
---	---	---	-----

5) **Red Pontiac**

Flesh: Cream



3	C	C	5
---	---	---	---

MN Scab Severity: 1 (Small, Surface) - 3 (Very large pustules, Pitted); I = Isolated, C = Coalesced
 MN Scab Coverage: 1 < 2%, 2 = 2-5%, 3 = 5-10%, 4 = 10-25%, 5 = 25-50%, 6 > 50%

North Central Regional Potato Variety Trial - 2010

Common Scab; Becker, MN; Russet Entries

Entry
No. Clone

Type	I/C		Area
	R1	R2	

6) **CV00047-3**

Flesh: Cream



1	0	C	1
---	---	---	---

7) **CV99222-2**

Flesh: Cream



3	C	C	4
---	---	---	---

8) **ND8229-3**

Flesh: Cream



2.5	I	I	1.5
-----	---	---	-----

9) **W8946-1rus**

Flesh: Cream



1.5	I	I	1
-----	---	---	---

MN Scab Severity: 1 (Small, Surface) - 3 (Very large pustules, Pitted); I = Isolated, C = Coalesced
 MN Scab Coverage: 1=< 2%, 2=2-5%, 3=5-10%, 4=10-25%, 5=25-50%, 6>50%

North Central Regional Potato Variety Trial - 2010

Common Scab; Becker, MN; Russet Entries

Entry
No. Clone

Type	I/C		Area
	R1	R2	

10) **Russet Burbank**

Flesh: Cream



0	0	0	0
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11) **Russet Norkotah**

Flesh: Cream



2.5	C	C	2.5
-----	---	---	-----

MN Scab Severity: 1 (Small, Surface) - 3 (Very large pustules, Pitted); I = Isolated, C = Coalesced
 MN Scab Coverage: 1=<2%, 2=2-5%, 3=5-10%, 4=10-25%, 5=25-50%, 6>50%

North Central Regional Potato Variety Trial - 2010

Common Scab; Becker, MN; White Entries

Entry

No. Clone

Type	I/C		Area
	R1	R2	

12) **MSL211-3**

Flesh: Cream



2.5	I	I	2
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13) **MSL268-D**

Flesh: Cream



3	I	I	3
---	---	---	---

14) **MSM182-1**

Flesh: Cream



2.5	C	C	3.5
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15) **MSQ176-5**

Flesh: Cream



2	C	C	5
---	---	---	---

MN Scab Severity: 1 (Small, Surface) - 3 (Very large pustules, Pitted); I = Isolated, C = Coalesced

MN Scab Coverage: 1=< 2%, 2=2-5%, 3=5-10%, 4=10-25%, 5=25-50%, 6>50%

North Central Regional Potato Variety Trial - 2010

Common Scab; Becker, MN; White Entries

Entry
No. Clone

Type	I/C		Area
	R1	R2	

16) **ND8307C-3**

Flesh: Cream



2	I	I	1.5
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17) **W2717-5**

Flesh: Cream



3	I	I	1.5
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18) **W2978-3**

Flesh: Cream



3	C	I	4
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19) **W5015-12**

Flesh: Cream



3	C	C	5
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MN Scab Severity: 1 (Small, Surface) - 3 (Very large pustules, Pitted); I = Isolated, C = Coalesced

MN Scab Coverage: 1=< 2%, 2=2-5%, 3=5-10%, 4=10-25%, 5=25-50%, 6>50%

North Central Regional Potato Variety Trial - 2010

Common Scab; Becker, MN; White Entries

Entry
No. Clone

Type	I/C		Area
	R1	R2	

20) **Atlantic**

Flesh: Cream



3	C	C	4
---	---	---	---

21) **NorValley**

Flesh: Cream



3	C	I	1.5
---	---	---	-----

22) **Snowden**

Flesh: W



3	C	C	4.5
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MN Scab Severity: 1 (Small, Surface) - 3 (Very large pustules, Pitted); I = Isolated, C = Coalesced
 MN Scab Coverage: 1=<2%, 2=2-5%, 3=5-10%, 4=10-25%, 5=25-50%, 6>50%