

2014 "Select" Chip Processing Potato Variety Trials Overall Average- Ten Locations

LINE	CWT/A		PERCENT OF TOTAL ¹						CHIP SCORE ²	TUBER QUALITY ³				VINE VIGOR ⁴	VINE MATURITY ⁵	COMMENTS	
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR		HH	VD	IBS	BC				
NY154 ^{efgj}	668	703	94	4	81	13	1	1.087	1.1	1.5	2.1	0.5	0.0	3.8	4.0	0.0-1.5 common scab	
NYJ15-7 ^{efgj}	657	678	97	3	70	27	1	1.084	1.8	3.3	2.3	0.1	0.6	3.9	4.2	0.0-2.5 common scab	
FL1879^{efj}	626	639	98	2	63	35	0	1.078	1.5	1.3	1.4	1.1	0.5	4.2	2.8	0.0-2.0 common scab; misshapened pickouts	
NY152 ^{efghj}	595	666	88	11	84	5	1	1.081	1.2	1.9	0.9	0.4	0.0	3.7	3.6	0.0-2.5 common scab; small round uniform tuber type	
NY148 ^{abcdeghj}	574	616	93	7	86	6	0	1.089	1.4	0.0	0.1	0.6	0.1	2.9	3.2	0.0-2.0 common scab; uniform tuber type	
Sebec (AF0338-17) ^{aeefgj}	568	607	92	5	79	13	1	1.079	1.7	0.9	0.9	0.1	0.0	3.8	3.2	0.0-3.5 common scab	
BNC182-5 ^{aeefgj}	559	607	91	7	74	17	3	1.084	1.4	2.0	1.1	0.0	0.0	3.4	3.6	0.0-2.5 common scab; misshapen and sheep nose in pickouts	
Elkton ^{abcdeghj}	503	546	92	4	78	14	4	1.083	1.5	1.9	0.6	0.0	0.0	2.4	2.8	0.0-2.5 common scab; heavy netted skin; oval tuber type; misshapened pickouts	
W6822-3 ^{efj}	495	550	89	5	72	17	6	1.091	1.0	1.3	1.3	3.3	1.1	3.6	3.0	0.0-1.5 common scab	
A01143-3C ^{gij}	488	587	82	6	78	4	11	1.079	1.3	0.3	1.9	0.3	0.0	2.5	4.2	0.0-1.5 common scab; severe sheep nose in pickouts	
Snowden^{aeefgj}	486	530	90	9	82	9	1	1.088	1.3	0.6	2.5	0.1	0.3	2.8	3.2	0.0-3.0 common scab	
Manistee (MSL292-A) ^{abcdeghj}	480	501	95	4	82	13	1	1.084	1.0	0.4	1.0	0.0	0.0	2.5	2.6	0.0-3.5 common scab; flat round tuber type	
CO03243-3W ⁱ	478	535	89	10	82	7	1	1.076	1.5	1.7	0.0	0.0	0.3	0.3	4.0	1.5 common scab	
MSR127-2 ^{bcddefghj}	472	501	94	5	81	13	1	1.088	1.4	0.1	1.3	0.0	0.0	2.8	3.4	0.0-1.0 common scab; uniform round tuber type; sl alligator hide; gc in pickouts	
Lamoka ^{aeefgj}	468	489	95	5	73	22	1	1.084	1.0	0.0	3.3	0.1	0.1	3.8	3.5	0.0-1.0 common scab; pear shaped pickouts; alligator hide	
W5955-1 ^{bcddefgj}	457	503	90	6	76	14	4	1.085	1.2	1.4	0.9	0.9	0.4	2.6	3.3	0.0-2.0 common scab; pear shaped in pickouts	
CO02024-9W ^{efgij}	442	516	84	16	83	1	0	1.077	1.3	0.0	0.5	0.3	0.0	3.3	3.4	0.0-4.0 common scab; small uniform tuber type	
AF4157-6 ⁱ	439	489	85	13	79	6	2	1.086	1.3	0.2	3.3	0.2	0.0	2.0	2.7	0.0-2.0 common scab; gc and sl pinkeye in pickouts	
Atlanticⁱ	432	482	90	6	80	10	4	1.087	2.0	4.7	1.0	0.0	0.3	0.3	3.0	1.5 common scab	
MSS428-1 ^{bcddefg}	423	464	91	6	77	14	3	1.083	1.4	5.2	1.7	0.2	0.2	2.2	2.6	0.0-4.0 common scab; small uniform tuber type	
Pike^{ceffj}	418	438	95	5	89	6	0	1.084	1.4	0.5	1.4	1.4	0.1	3.0	3.2	0.0-2.5 common scab	
MSS934-4 ^{bcddefg}	411	481	85	9	76	9	6	1.077	1.7	0.5	2.2	0.0	0.2	2.6	2.8	0.0-4.0 common scab; gc in pickouts; bright skin	
MSL007-B ⁱ	389	412	95	5	85	10	0	1.082	1.5	0.0	2.0	0.0	0.0	0.0	4.0	0.5 common scab; heavy netted skin; uniform tuber type	
W6609-3 ^{efghij}	358	425	82	15	79	3	3	1.086	1.1	0.6	1.5	0.6	0.8	2.9	3.1	0.0-1.0 common scab	
A00188-3C ⁱ	322	440	74	24	73	1	2	1.084	1.0	0.3	3.0	0.0	0.3	0.3	3.5	0.0 common scab; pear shaped and points in pickouts	
AC01151-5W ⁱ	321	437	73	25	72	1	2	1.072	1.0	0.7	0.3	1.7	0.7	0.7	4.5	1.5 common scab	
CO02321-4W ⁱ	281	350	80	19	75	5	1	1.077	1.0	0.0	2.0	0.0	0.0	0.0	3.5	1.5 common scab	
MEAN	474	526						1.083									tr = trace, sl = slight, N/A = not available gc=growth crack

2014 Chip Variety Trial Sites

- ^a Crooks Farms; Set #1; Montcalm Co.
- ^b Crooks Farms; Set#2; Montcalm Co.
- ^c Crooks Farms; Set#3; Montcalm Co.
- ^d Crooks Farms; Set#4; Montcalm Co.
- ^e Lennard Ag. Company; St. Joseph Co.
- ^f Main Farms; Montcalm Co.
- ^g MSU Box Bin Trial; Montcalm Co.
- ^h Sandyland Farms; Set #1; Montcalm Co.
- ⁱ Sandyland Farms; SFA Trial (replicated); Montcalm Co.
- ^j Walther Farms (replicated); St. Joseph Co.

¹SIZE
Bs: < 4.0 oz.
As: 4.0 - 10.0 oz.
OV: > 10 oz.
PO: Pickouts

²CHIP COLOR SCORE -
Snack Food Association Scale
(Out of the field)
Ratings: 1 - 5
1: Excellent
5: Poor

³TUBER QUALITY (number of tubers per 10 cut)
HH: Hollow Heart
VD: Vascular Discoloration
IBS: Internal Brown Spot
BC: Brown Center

⁴VINE VIGOR RATING
Ratings: 1 - 5
1: Slow Emergence
5: Early Emergence (vigorous vine, some flowering)

⁵VINE MATURITY RATING
Ratings: 1 - 5
1: Early (vines completely dead)
5: Late (vigorous vine, some flowering)

2014 "Select" Processing Potato Variety Trial; Set #1 Crooks Farms, Waterwheel Rd., Montcalm County, MI

Harvest (Group 1) 22-Sep-14 143 Days

DD, Base 40⁶ 3032

LINE	CWT/A		PERCENT OF TOTAL ¹						SP GR	CHIP SCORE ³	TUBER QUALITY ²				TOTAL CUT	VINE VIGOR ⁴	VINE MATURITY ⁵	COMMENTS	CHIP COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	HH			VD	IBS	BC						
Group 1	NY 148 Plot	774	827	94	6	93	1	1	1.092	1.0	0	0	0	0	10	2.0	4.5	1.0 common scab	4 SL SED
	Elkton	616	668	92	3	84	9	5	1.086	1.5	6	0	0	0	10	1.0	3.0	2.5 common scab, misshapen pickouts	4 SED
	BNC182-5	609	664	92	8	85	7	0	1.088	1.5	5	0	0	0	10	1.5	4.0	pinkeye, 2.5 common scab	4 tr SED
	Sebec (AF0338-17)	580	635	91	8	78	14	1	1.079	1.0	2	0	0	0	10	2.0	3.0	2.5 common scab, uniform tuber type	
	Manistee	541	552	98	2	80	18	0	1.081	1.0	0	0	0	0	10	1.0	3.0	2.0 common scab, flat round tuber type	
	Snowden	440	457	96	3	87	10	1	1.090	1.0	0	0	0	0	10	1.5	3.5	3.0 common scab	1 HH
Group 2	NY 148 H****	679	752	90	8	88	2	2	1.091	1.0	0	1	0	0	10	2.0	4.0	tr pitted scab	1 SED
	NY 148 H**	613	669	92	8	86	5	0	1.094	1.0	0	0	0	0	10	2.0	4.0	tr pitted scab, uniform tuber type	
	NY 148 H***	590	628	94	6	88	6	0	1.093	1.0	0	0	0	0	10	2.0	4.0	tr pitted scab, uniform tuber shape	
	Snowden***	415	446	93	7	90	3	0	1.092	1.0	0	1	0	0	10	1.5	3.0	pitted scab	
	NY 148 H*	400	440	91	9	91	0	0	1.087	1.0	0	0	0	0	10	1.5	4.0	tr pitted scab, uniform tuber type	
MEAN		569	613						1.088										

tr = trace, sl = slight, N/A = not applicable

SED = stem end defect, gc = growth crack

¹SIZE

Bs: < 1 7/8"
As: 1 7/8" - 3.25"
OV: > 3.25"
PO: Pickouts

²TUBER QUALITY (number of tubers per total cut)

HH: Hollow Heart
VD: Vascular Discoloration
IBS: Internal Brown Spot
BC: Brown Center

³CHIP COLOR SCORE -
Snack Food Association Scale

(Out of the field)
Ratings: 1 - 5
1: Excellent
5: Poor

⁴VINE VIGOR RATING

Date Taken: 3-Jun-14
Ratings: 1 - 5
1: Slow Emergence
5: Early Emergence (vigorous vine, some flowering)

⁵VINE MATURITY RATING

Date Taken: 12-Aug-14
Ratings: 1 - 5
1: Early (vines completely dead)
5: Late (vigorous vine, some flowering)

Planted: 2-May-14
Vines Killed: 2-Sep-14
Days from Planting to Vine Kill: 123
Seed Spacing: 10"
No Fumigation

⁶MAWN STATION: Entrican
Planting to Vine Kill

Harvest Dates

* 13-Aug-14
** 22-Aug-14
*** 28-Aug-14
**** 5-Sep-14

2014 "Select" Processing Potato Variety Trial; Set #2 Crooks Farms, Kleiss Rd., Montcalm County, MI

Harvest 2-Oct-14 139 Days

DD, Base 40⁶ 2759

LINE	CWT/A		PERCENT OF TOTAL ¹					SP GR	CHIP SCORE ³	TUBER QUALITY ²				TOTAL CUT	VINE VIGOR ⁴	VINE MATURITY ⁵	COMMENTS	CHIP COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO			HH	VD	IBS	BC					
NY148	566	603	93	7	91	2	0	1.087	1.0	0	1	0	1	10	1.5	3.5	2.0 common scab,	1 blackleg
Manistee (MSL292-A)	481	510	94	6	85	9	0	1.081	1.0	1	2	0	0	10	2.0	3.0	2.0 common scab	
Elkton	472	550	86	4	84	2	10	1.085	1.5	0	1	0	0	10	2.0	3.5	oval to oblong tuber type, misshapened pickouts, 0.5 common scab	
MSS428-1	465	482	96	3	85	11	1	1.082	1.0	8	1	1	0	10	1.5	3.5	1.5 common scab, gc in pickouts	severe SED
W5955-1	442	470	93	7	83	10	0	1.085	1.0	0	2	0	1	10	1.5	3.5	2.0 common scab, uniform round tuber type	
MSR127-2	434	457	95	3	95	0	2	1.091	1.0	1	1	0	0	10	1.0	4.0	1.0 common scab	
Lamoka	434	456	95	5	64	31	0	1.082	1.0	0	2	0	0	10	2.0	4.0	1.0 common, pear shaped tubers	
MSS934-4	357	414	86	6	81	5	8	1.072	1.5	0	3	0	0	10	1.5	3.0	3.0 common scab, gc in pickouts	severe VD

MEAN 456 493

1.083

tr = trace, sl = slight, N/A = not applicable

SED = stem end defect, gc = growth crack

¹SIZE

Bs: < 1 7/8"
As: 1 7/8" - 3.25"
OV: > 3.25"
PO: Pickouts

²TUBER QUALITY (number of tubers per total cut)

HH: Hollow Heart
VD: Vascular Discoloration
IBS: Internal Brown Spot
BC: Brown Center

³CHIP COLOR SCORE -
Snack Food Association Scale

(Out of the field)
Ratings: 1 - 5
1: Excellent
5: Poor

⁴VINE VIGOR RATING

Date Taken: 10-Jun-14
Ratings: 1 - 5
1: Slow Emergence
5: Early Emergence (vigorous vine, some)

⁵VINE MATURITY RATING

Date T_e: 13-Aug-14
Ratings: 1 - 5
1: Early (vines completely dead)
5: Late (vigorous vine, some)

Planted: 16-May-14
Vines Killed: 30-Aug-14
Days from Planting to Vine Kill: 106
Seed Spacing : 10"
No Fumigation

⁶MAWN STATION: Entrican
Planting to Vine Kill

2014 "Select" Processing Potato Variety Trial; Set #3

Crooks Farms, Nevins Rd., Montcalm County, MI

Harvest 22-Sep-14 118 Days
DD, Base 40⁶ 2474

LINE	CWT/A		PERCENT OF TOTAL ¹					SP GR	CHIP SCORE ³	TUBER QUALITY ²				TOTAL CUT	VINE VIGOR ⁴	VINE MATURITY ⁵	COMMENTS	CHIP COMMENTS		
	US#1	TOTAL	US#1	Bs	As	OV	PO			HH	VD	IBS	BC							
NY148	630	672	93	7	91	2	0	1.090	1.0	0	0	0	0	10	3.0	3.5	2.0 common scab, sl sticky stolons			
MSR127-2	476	490	97	2	88	9	1	1.091	1.0	0	4	0	0	10	3.0	4.5	1.0 common scab			
Elkton	461	491	94	4	83	11	2	1.088	1.0	0	2	0	0	10	2.0	2.5	2.5 common scab			
W5955-1	433	486	89	5	63	26	6	1.087	1.0	1	0	0	0	10	2.0	4.0	2.0 common scab			
MSS934-4	417	449	93	3	87	6	4	1.077	2.0	0	3	0	0	10	2.5	2.5	4.0 common scab	scab		
MSS428-1	401	421	95	5	81	14	0	1.088	1.0	1	4	0	0	10	2.5	3.0	2.5 common scab	scab		
Manistee (MSL292-A)	383	393	97	3	88	9	0	1.086	1.0	0	0	0	0	10	2.5	2.5	3.5 common scab	scab		
Pike	326	352	93	7	82	11	0	1.091	1.0	0	0	0	0	10	1.5	2.5	2.5 common scab			
MEAN		441	469						1.087											

tr = trace, sl = slight, N/A = not applicable
SED = stem end defect, gc = growth crack

¹SIZE
Bs: < 1 7/8"
As: 1 7/8" - 3.25"
OV: > 3.25"
PO: Pickouts

²TUBER QUALITY (number of tubers per total cut)
HH: Hollow Heart
VD: Vascular Discoloration
IBS: Internal Brown Spot
BC: Brown Center

³CHIP COLOR SCORE -
Snack Food Association Scale
(Out of the field)
Ratings: 1 - 5
1: Excellent
5: Poor

⁴VINE VIGOR RATING
Date Taken: 23-Jun-14
Ratings: 1 - 5
1: Slow Emergence
5: Early Emergence (vigorous vine, some flowering)

⁵VINE MATURITY RATING
Date Taken: 22-Aug-14
Ratings: 1 - 5
1: Early (vines completely dead)
5: Late (vigorous vine, some flowering)

Planted: 27-May-14
Vines Killed: 27-Aug-14
Days from Planting to Vine Kill: 92
Seed Spacing : 10"
No Fumigation

⁶MAWN STATION: Entrican
Planting to Vine Kill

2014 "Select" Processing Potato Variety Trial; Set #4 Crooks Farms, McBride Rd., Montcalm County, MI

Harvest 14-Oct-14 132 Days
DD, Base 40⁶ 2478

LINE	CWT/A		PERCENT OF TOTAL ¹						SP GR	CHIP SCORE ³	TUBER QUALITY ²				TOTAL CUT	VINE VIGOR ⁴	VINE MATURITY ⁵	COMMENTS	CHIP COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	HH			VD	IBS	BC						
MSS428-1	492	511	96	4	81	15	0	1.088	1.0	5	0	0	1	10	3.0	3.5	0.0 common scab, uniform round tuber type		
NY148	490	536	91	9	91	0	0	1.087	1.0	0	0	0	0	10	3.0	3.5	0.0 common scab, uniform round tuber type		
Elkton	487	502	97	3	88	9	0	1.081	1.5	0	0	0	0	10	2.5	4.0	0.0 common scab, uniform oval tubers, netted skin		
W5955-1	466	541	87	9	77	10	4	1.081	1.0	0	0	1	1	10	3.0	3.5	0.0 common scab, knobs and pear shaped tubers in pickouts		
MSS934-4	432	461	93	6	90	3	1	1.075	1.0	0	1	0	0	10	3.5	3.0	1.0 common scab, bright smooth skin appearance		
MSR127-2	363	392	93	7	91	2	0	1.080	1.0	0	1	0	0	10	2.5	5.0	0.0 common scab, uniform round tuber type, 2 tubers with wet break down		
Manistee (MSL292-A)	322	353	91	9	91	0	0	1.074	1.0	0	0	0	0	10	2.5	2.5	0.0 common scab, flattened round tuber type, 6 tubers with wet break down		
MEAN		436	471							1.081									

tr = trace, sl = slight, NA = not available
SED = stem end defect, gc = growth crack

¹SIZE
Bs: < 1 7/8"
As: 1 7/8" - 3.25"
OV: > 3.25"
PO: Pickouts

²TUBER QUALITY (number of tubers per total cut)
HH: Hollow Heart
VD: Vascular Discoloration
IBS: Internal Brown Spot
BC: Brown Center

³CHIP COLOR SCORE -
Snack Food Association Scale
(Out of the field)
Ratings: 1 - 5
1: Excellent
5: Poor

⁴VINE VIGOR RATING
Date Taken: 30-Jun-14
Ratings: 1 - 5
1: Slow Emergence
5: Early Emergence (vigorous vine, some flowering)

⁵VINE MATURITY RATING
Date Taken: 22-Aug-14
Ratings: 1 - 5
1: Early (vines completely dead)
5: Late (vigorous vine, some flowering)

Planted: 4-Jun-14
Vines Killed: 4-Sep-14
Days from Planting to Vine Kill: 92
Seed Spacing : 10"
No Fumigation

⁶MAWN STATION: Entrican
Planting to Vine Kill

2014 Processing Potato Variety Trial Lennard Ag., St. Joseph County, MI

Harvest 13-Oct-14 138 Days

DD, Base 40⁶ 3121

LINE	CWT/A		PERCENT OF TOTAL ¹						CHIP SCORE ³	TUBER QUALITY ²				TOTAL CUT	VINE VIGOR ⁴	VINE MATURITY ⁵	COMMENTS	CHIP COMMENTS	
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR		HH	VD	IBS	BC						
NYJ15-7	866	886	98	1	58	40	1	1.090	2.0	9	0	0	0	10	4.5	4.0	0.0 common scab, misshapen pickouts, very large oversize tubers		
NY154	748	772	97	0	67	30	3	1.092	1.0	5	0	0	0	10	3.5	3.5	flat round tuber type, 0.0 common scab		
BNC182-5	731	790	93	3	60	33	4	1.083	1.5	3	0	0	0	10	4.5	2.5	0.0 common scab, misshapen and sheep nose in pickouts		
NY152	682	715	96	2	84	12	2	1.080	1.5	6	0	1	0	10	3.5	3.5	uniform round tuber type, 0.0 common scab		
MSS934-1	652	789	82	4	55	27	14	1.084	2.0	3	0	0	0	10	4.5	4.0	misshapen and knobs in pickouts, 0.0 common scab, tuber type not uniform	severe SED	
Snowden	647	686	95	5	84	11	0	1.095	1.0	1	1	0	1	10	4.0	4.0	0.0 common scab		
FL1879	639	652	98	1	72	26	1	1.083	1.5	2	0	0	0	10	4.0	2.5	0.0 common scab, misshapen pickouts. sl pinkeye		
NY148 Rep 2	629	651	97	3	88	9	0	1.081	1.5	0	0	1	0	10	4.0	4.0	0.0 common scab, uniform round tuber type	SED	
Sebec (AF0338-17)	609	633	96	3	76	20	1	1.075	2.0	2	0	0	0	10	4.0	3.5	0.5 common scab,	severe SED	
Manistee (MSL292-A)	584	610	96	2	75	21	2	1.083	1.0	0	1	0	0	10	3.5	3.5	1.0 common scab, gc in pickouts		
Lamoka	574	579	99	1	78	21	0	1.083	1.0	0	2	0	0	10	4.0	3.5	0.0 common scab		
MSR127-2	559	585	96	2	70	26	2	1.090	1.5	0	0	0	0	10	3.5	3.0	0.0 common scab, sl pinkeye, uniform round tuber type		
Elkton	508	619	82	2	57	25	16	1.084	1.5	4	0	0	0	10	3.5	2.5	0.0 common scab, oval tuber type, heavy netted skin		
MSS428-1	494	581	85	7	68	17	8	1.079	2.0	9	0	0	0	10	3.5	3.5	0.5 common scab, misshapen pickouts	severe HH, 24 chipped 1 rotten	
NY148 Rep 1	469	491	95	5	70	25	0	1.096	1.5	0	0	0	0	10	3.5	2.5	0.5 common scab, uniform tuber type		
W6609-3	469	508	92	7	89	3	1	1.093	1.0	3	0	0	2	10	3.0	3.5	0.0 common scab, misshapen pickouts,		
CO02024-9W	443	515	86	14	86	0	0	1.075	1.5	0	0	0	0	10	4.0	4.5	small uniform tuber type, 0.0 common scab		
W5955-1	441	458	96	2	81	15	2	1.085	1.5	4	0	0	0	10	3.5	4.0	0.0 common scab, tr pear-shaped tubers in pickouts,		
W6822-3	409	513	80	3	52	28	17	1.090	1.0	2	0	2	3	10	3.0	3.0	0.0 common scab, severe knobs in pickouts		
Pike	245	259	94	6	94	0	0	1.072	1.5	2	0	0	0	10	3.0	3.5	0.0 common scab, small uniform tuber type	severe SED	
MEAN	570	615						1.085											

tr = trace, sl = slight, NA = not available

SED = stem end defect, gc = growth crack

¹SIZE
Bs: < 1 7/8"
As: 1 7/8" - 3.25"
OV: > 3.25"
PO: Pickouts

²TUBER QUALITY (number of tubers per total cut)
HH: Hollow Heart
VD: Vascular Discoloration
IBS: Internal Brown Spot
BC: Brown Center

³CHIP COLOR SCORE -
Snack Food Association Scale
(Out of the field)
Ratings: 1 - 5
1: Excellent
5: Poor

⁴VINE VIGOR RATING
Date Taken: 27-Jun-14
Ratings: 1 - 5
1: Slow Emergence
5: Early Emergence (vigorous vine, some flowering)

⁵VINE MATURITY RATING
Date Taken: 25-Aug-14
Ratings: 1 - 5
1: Early (vines completely dead)
5: Late (vigorous vine, some flowering)

Planted: 28-May-14
Vines Killed: 1-Oct-14
Days from Planting to Vine Kill: 126
Seed Spacing: 10"
No Fumigation

⁶MAWN STATION: Coldwater
Planting to Vine Kill

2014 Processing Potato Variety Trial
Main Farms, Montcalm County, MI
Harvest 24-Sep-14 124 Days
DD, Base 40⁶ 2650

LINE	CWT/A		PERCENT OF TOTAL ¹					SP GR	CHIP SCORE ³	TUBER QUALITY ²				TOTAL CUT	VINE VIGOR ⁴	VINE MATURITY ⁵	COMMENTS	CHIP COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO			HH	VD	IBS	BC					
NY154	556	581	96	4	84	12	0	1.079	1.0	0	5	1	0	10	4.5	4.0	1.5 common scab	6 SED
NY148	494	541	92	8	87	5	0	1.096	1.0	0	0	1	0	10	4.0	3.5	2.0 common scab, tr pitted scab	2 severe VD
NY152	483	563	86	14	85	1	0	1.075	1.0	0	3	0	0	10	5.0	4.0	2.5 common scab, small uniform tuber type	4 SED
NYJ15-7	471	492	95	5	78	17	0	1.079	1.5	0	4	0	1	10	3.5	4.0	2.5 common scab	8 SED
FL1879	449	468	96	4	74	22	0	1.071	2.0	1	2	0	1	10	4.0	2.5	2.0 common scab	2 SED
Manistee (MSL292-A)	442	457	96	4	86	10	0	1.090	1.0	0	2	0	0	10	4.0	2.0	2.5 common scab	
Pike	420	441	95	5	90	5	0	1.081	1.5	0	5	0	0	10	3.5	3.0	1.0 common scab	
MSS428-1	418	456	92	6	81	11	2	1.076	1.5	2	3	0	0	10	3.0	2.5	4.0 common scab	10 SED
MSR127-2	417	460	91	7	90	1	2	1.091	1.0	0	2	0	0	10	4.0	3.0	1.0 common scab, gc in pickouts	
Sebec (AF0338-17)	408	430	95	5	94	1	0	1.076	1.5	0	2	0	0	10	4.5	3.0	3.5 common scab	11 SED
BNC182-5	402	431	93	6	85	8	1	1.081	1.0	1	1	0	0	10	4.0	3.5	2.0 common scab	6 SED
W6822-5	374	406	93	6	87	6	1	1.089	1.0	1	3	0	0	10	3.5	2.5	1.5 common scab	
Snowden	372	423	87	12	84	3	1	1.085	1.0	1	5	0	0	10	4.0	2.5	3.0 common scab	
Elkton	370	389	95	5	89	6	0	1.079	1.0	2	0	0	0	10	3.5	3.0	0.5 common scab	
W5955-1	369	401	92	6	87	5	2	1.084	1.5	0	0	0	0	10	5.0	3.5	1.5 common scab	8 SED
CO02024-9W	358	431	83	17	83	0	0	1.077	1.0	0	0	0	0	10	4.5	3.0	4.0 common scab	6 SED
Lamoka	349	362	97	3	63	34	0	1.073	1.0	0	4	0	0	10	5.0	3.0	1.0 common scab	2 SED
MSS934-4	275	372	74	22	69	5	4	1.070	1.5	0	4	0	0	10	4.0	4.0	2.0 common scab, gc in pickouts	
W6609-3	269	331	81	18	81	0	1	1.081	1.0	0	3	0	0	10	4.0	3.0	1.0 common scab	4 SED
MEAN	405	444						1.081										

tr = trace, sl = slight, NA = not available
SED = stem end defect, gc = growth crack

¹SIZE
Bs: < 1 7/8"
As: 1 7/8" - 3.25"
OV: > 3.25"
PO: Pickouts

²TUBER QUALITY (number of tubers per total cut)
HH: Hollow Heart
VD: Vascular Discoloration
IBS: Internal Brown Spot
BC: Brown Center

³CHIP COLOR SCORE -
Snack Food Association Scale
(Out of the field)
Ratings: 1 - 5
1: Excellent
5: Poor

⁴VINE VIGOR RATING
Date Taken: 25-Jun-14
Ratings: 1 - 5
1: Slow Emergence
5: Early Emergence (vigorous vine, some flowering)

⁵VINE MATURITY RATING
Date Taken: 13-Aug-14
Ratings: 1 - 5
1: Early (vines completely dead)
5: Late (vigorous vine, some flowering)

Planted: 23-May-14
Vines Killed: 30-Aug-14
Days from Planting to Vine Kill: 99
Seed Spacing: 10"
No Fumigation

⁶MAWN STATION: Entrican
Planting to Vine Kill

2014 MPIC Box Bin Processing Potato Variety Trial

MSU Montcalm Research Center, Montcalm County, MI

Harvest date **29-Sep-14** 147 days
DD, Base 40⁶ 3170

LINE	CWT/A		PERCENT OF TOTAL ¹						CHIP SCORE ³	TUBER QUALITY ²				TOTAL CUT	VINE VIGOR ⁴	VINE MATURITY ⁵	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR		HH	VD	IBS	BC				
NY152	469	598	78	21	75	3	1	1.088	1.0	3	0	0	0	10	3.0	3.0	1.5 common scab
NY154	465	530	88	10	86	2	2	1.097	1.0	1	2	0	0	10	3.0	4.5	uniform netted skin, 0.0 common scab
Elkton	460	497	93	3	77	16	4	1.090	1.0	5	1	0	0	10	3.0	3.5	oval tuber type
NYJ15-7	457	480	95	4	81	14	1	1.088	1.0	4	2	0	0	10	3.0	4.5	1.0 common scab
W5955-1	439	520	84	5	74	10	11	1.090	1.0	6	1	0	0	10	3.5	3.5	0.5 common scab
MSR127-2	392	434	90	8	86	4	2	1.094	1.0	0	0	0	0	10	3.0	4.5	gc in pickouts
NY148	383	464	82	17	81	1	1	1.098	1.5	0	0	0	0	10	3.5	3.5	1.0 common scab
Manistee (MSL292-A)	370	404	91	6	84	7	3	1.088	1.0	2	0	0	0	10	3.5	3.0	1.0 common scab, flattened tuber shape
Sebec (AF0338-17)	370	421	88	10	88	0	2	1.084	1.5	0	1	0	0	10	3.5	2.5	1.0 common scab
A01143-3C	357	449	79	7	78	1	14	1.077	1.5	1	0	0	0	10	3.0	4.5	gc in pickouts, non-uniform tuber type 0.5 common scab
Snowden	347	418	83	15	79	4	2	1.093	1.0	1	3	0	0	10	3.0	3.0	1.5 common scab, misshapen pickouts
MSS934-4	330	398	83	11	73	10	6	1.081	2.0	0	2	0	1	10	3.0	3.0	1.5 common scab
W6609-3	306	381	81	14	76	5	5	1.090	1.0	0	0	0	0	10	2.5	3.0	sl pinkeye
Lamoka	281	330	85	12	80	5	3	1.088	1.0	0	5	0	0	10	3.5	3.0	pear shape pickouts, alligator hide, 0.5 common scab, bright skin
MSS428-1	267	334	80	13	67	13	7	N/A	2.0	6	2	0	0	10	2.5	3.0	0.5 common scab
BNC182-5	248	306	81	11	66	15	8	1.081	1.0	1	0	0	0	10	2.5	4.0	
CO02024-9W	242	359	67	33	67	0	0	1.079	1.0	0	0	0	0	10	3.5	3.5	1.5 common scab

MEAN 364 431

1.088

tr = trace, sl = slight, NA = not available

SED = stem end defect, gc = growth crack

¹SIZE

Bs: < 1 7/8"
As: 1 7/8" - 3.25"
OV: > 3.25"
PO: Pickouts

²TUBER QUALITY (number of tubers per total cut)

HH: Hollow Heart
VD: Vascular Discoloration
IBS: Internal Brown Spot
BC: Brown Center

³CHIP COLOR SCORE - Snack Food Association Scale

(Out of the field)
Ratings: 1 - 5
1: Excellent
5: Poor

⁴VINE VIGOR RATING

Date Taken: 16-Jun-14
Ratings: 1 - 5
1: Slow Emergence
5: Early Emergence (vigorous vine, some flowering)

⁵VINE MATURITY RATING

Date Taken: #####
Ratings: 1 - 5
1: Early (vines completely dead)
5: Late (vigorous vine, some flowering)

Planted: 5-May-14
Vines Killed: 8-Sep-14
Days from Planting to Vine Kill: 126
Seed Spacing: 10"
No Fumigation

⁶MAWN STATION: Entrican
Planting to Vine Kill

2014 Processing Potato Variety Trial Sandyland Farms, Montcalm County, MI

Harvest 9-Oct-14 130 Days
DD, Base 40⁶ 2740

LINE	CWT/A		PERCENT OF TOTAL ¹					CHIP SCORE ³	TUBER QUALITY ²				TOTAL CUT	VINE VIGOR ⁴	VINE MATURITY ⁵	COMMENTS	
	US#1	TOTAL	US#1	Bs	As	OV	PO		SP GR	HH	VD	IBS					BC
NY152	519	594	87	13	87	0	0	1.084	1.0	0	0	0	0	10	3.0	4.0	
NY148	495	546	91	7	76	15	2	1.080	2.5	0	0	0	0	10	3.0	3.5	severe bruising
MSR127-2	432	471	92	6	79	13	2	1.084	2.0	0	0	0	0	10	3.5	4.5	
Elkton	332	363	91	8	78	13	1	1.075	2.5	0	1	0	0	10	2.5	3.5	sl alligator hide
W6609-3	259	354	74	21	70	4	5	1.082	1.0	0	1	2	2	10	3.0	3.0	
MEAN		407	465						1.081								

tr = trace, sl = slight, NA = not available
SED = stem end defect, gc = growth crack

¹SIZE
Bs: < 1 7/8"
As: 1 7/8" - 3.25"
OV: > 3.25"
PO: Pickouts

²TUBER QUALITY (number of tubers per total cut)
HH: Hollow Heart
VD: Vascular Discoloration
IBS: Internal Brown Spot
BC: Brown Center

³CHIP COLOR SCORE -
Snack Food Association Scale
(Out of the field)
Ratings: 1 - 5
1: Excellent
5: Poor

⁴VINE VIGOR RATING
Date Taken: 30-Jun-14
Ratings: 1 - 5
1: Slow Emergence
5: Early Emergence (vigorous vine, some flowering)

⁵VINE MATURITY RATING
Date Taken: 26-Aug-14
Ratings: 1 - 5
1: Early (vines completely dead)
5: Late (vigorous vine, some flowering)

Planted: 01-Jun-14
Vines Killed: 12-Sep-14
Days from Planting to Vine Kill: 103
Seed Spacing: 10"
Fumigated

⁶MAWN STATION: Entrican
Planting to Vine Kill

2014 USPB / SFA Processing Potato Variety Trial

Sandyland Farms, Montcalm County, MI

Harvest 9-Oct-14 130 Days
DD, Base 40⁶ 2670

LINE	CWT/A		PERCENT OF TOTAL ¹					SP GR	CHIP SCORE ³	TUBER QUALITY ²				TOTAL CUT	VINE VIGOR ⁴	VINE MATURITY ⁵	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO			HH	VD	IBS	BC				
CO03243-3W	478	535	89	10	82	7	1	1.076	1.5	5	0	0	1	30	3.0	4.0	1.5 common scab
CO02024-9W	436	500	87	13	85	2	0	1.077	1.5	0	3	2	0	30	3.0	3.0	1.0 common scab
A01143-3C	433	524	82	10	80	2	8	1.080	1.5	0	6	0	0	30	4.0	4.0	severe sheepnose in pickouts, 1.5 common scab
Atlantic	432	482	90	6	80	10	4	1.087	2.0	14	3	0	1	30	3.5	3.0	1.5 common scab
MSL007-B	389	412	95	5	85	10	0	1.082	1.5	0	6	0	0	30	2.0	4.0	uniform tuber type, heavy netted skin, 0.5 common scab
W5955-1	348	417	84	10	73	11	6	1.080	1.5	0	6	0	3	30	3.5	4.0	1.0 common scab
A00188-3C	322	440	74	24	73	1	2	1.084	1.0	1	9	0	1	30	4.0	3.5	0.0 common scab, points and pear shape in pickouts
AC01151-5W	321	437	73	25	72	1	2	1.072	1.0	2	1	5	2	30	2.5	4.5	1.5common scab
Snowden	318	388	82	17	77	5	1	1.079	2.0	0	10	0	0	30	3.0	3.0	2.0 common scab
CO02321-4W	281	350	80	19	75	5	1	1.077	1.0	0	6	0	0	30	3.0	3.5	1.5 common scab
W6609-3	239	320	75	22	73	2	3	1.079	1.5	0	8	0	1	30	3.5	2.5	0.5 common scab
AF4157-6	208	285	73	24	73	0	3	1.079	1.5	0	11	0	0	30	3.5	2.5	2.0 common scab, gc in pickouts
MEAN	350	424						1.079									

tr = trace, sl = slight, NA = not available

SED = stem end defect, gc = growth crack

¹SIZE
Bs: < 1 7/8"
As: 1 7/8" - 3.25"
OV: > 3.25"
PO: Pickouts

²TUBER QUALITY (number of tubers per total cut)
HH: Hollow Heart
VD: Vascular Discoloration
IBS: Internal Brown Spot
BC: Brown Center

³CHIP COLOR SCORE -
Snack Food Association Scale
(Out of the field)
Ratings: 1 - 5
1: Excellent
5: Poor

⁴VINE VIGOR RATING
Date Taken: 30-Jun-14
Ratings: 1 - 5
1: Slow Emergence
5: Early Emergence (vigorous vine, some flowering)

⁵VINE MATURITY RATING
Date Taken: 26-Aug-14
Ratings: 1 - 5
1: Early (vines completely flowering)
5: Late (vigorous vine, some flowering)

Planted: 1-Jun-14
Vines Killed: 8-Sep-14
Days from Planting to Vine Kill: 99
Seed Spacing : 10"
Fall Fumigation

⁶MAWN STATION: Entrican
Planting to Vine Kill

2014 Chip Processing Potato Variety Trial

Walther Farms, St. Joseph County, MI

Harvest 17-Oct-14 169 Days

DD, Base 40⁶ 3457

LINE	CWT/A		PERCENT OF TOTAL ¹						SP GR*	CHIP SCORE ^{3*}	TUBER QUALITY ²				VINE VIGOR ⁴	VINE MATURITY ⁵	COMMENTS	CHIP COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	HH			VD	IBS	BC					
NY154	903	930	97	3	89	8	0	1.079	1.5	0.0	1.3	1.0	0.0	4.1	4.1	0.0 common scab		
Sebac	871	917	95	1	65	30	4	1.079	2.5	0.5	1.5	0.3	0.0	4.8	3.8	0.0-1.5 common scab; gc and sheep nose in pickouts		
NYJ15-7	833	852	98	2	61	37	0	1.079	2.5	0.3	3.3	0.5	1.3	4.5	4.4	0.0 common scab; round uniform tuber type	few chips with severe SED	
Elkton	825	838	98	2	64	34	0	1.077	2.0	0.5	0.3	0.0	0.0	4.4	3.9	0.0 common scab; alligator hide		
NY152	820	860	96	4	89	7	0	1.080	1.5	0.3	1.5	0.8	0.0	3.9	3.4	0.0 common scab; small round uniform tuber type		
NY148	811	830	98	2	94	4	0	1.087	1.5	0.0	0.0	3.5	0.0	4.5	3.8	0.0 common scab	severe black spot bruising	
BNC182-5	806	843	96	4	75	21	0	1.088	2.0	0.0	4.3	0.0	0.0	4.5	3.8	0.0 common scab		
FL1879	791	799	99	1	43	56	0	1.080	1.0	0.8	2.3	3.3	0.5	4.5	3.4	0.0 common scab	one severely bruised tuber	
Snowden	791	810	98	2	79	19	0	1.085	1.5	0.3	2.8	0.3	0.5	4.5	3.3	0.0 common scab	tr black spot bruise	
CO02024-9W	733	774	94	6	93	1	0	1.075	1.5	0.0	1.3	0.8	0.0	4.3	3.1	0.0 common scab; small tuber type		
W5955-1	717	733	98	2	71	27	0	1.086	1.0	0.5	2.3	6.0	0.3	4.6	3.9	0.0 common scab; severe heat necrosis		
Manistee	715	730	98	2	69	29	0	1.090	1.0	0.0	3.0	0.3	0.0	3.5	4.1	0.0-0.5 common scab	nice chip	
MSR127-2	706	719	98	2	52	46	0	1.082	2.5	0.0	2.3	0.0	0.0	4.0	3.3	0.0 common scab; tr alligator hide, pinkeye	severe SED	
Lamoka	704	716	98	2	79	19	0	1.091	1.0	0.0	3.3	0.3	0.3	4.5	4.0	0.0 common scab; sl alligator hide, oval tuber type	tr black spot bruise	
W6822-3	701	731	96	4	77	19	0	1.093	1.0	0.8	1.0	8.0	0.3	4.3	3.4	0.0 common scab; severe heat necrosis		
Pike	682	700	97	3	88	9	0	1.092	1.5	0.0	0.5	5.5	0.3	4.1	3.8	0.0 common scab; heat necrosis		
A01143-3C	674	788	85	3	76	9	12	1.079	1.0	0.0	3.8	0.8	0.0	4.5	4.1	0.0 common scab; severe sheep nose in pickouts		
AF4157-6	670	692	97	3	85	12	0	1.092	1.0	0.3	3.0	0.3	0.0	4.0	2.9	0.0 common scab; sl pinkeye	nice chip color	
W6609-3	607	654	93	7	88	5	0	1.093	1.0	0.3	2.3	1.3	0.3	4.3	3.5	0.0 common scab	sticky stolons	
MEAN	756	785						1.085										tr = trace, sl = slight, NA = not available
LSD_{0.05}	102	100		1.8	13.6	12.0	3.0	-	-	NS	1.9	1.4	0.6	0.4	0.3			SED = stem end defect, gc = growth crack

¹SIZE
Bs: < 1 7/8"
As: 1 7/8" - 3.25"
OV: > 3.25"
PO: Pickouts

²TUBER QUALITY (number of tubers per total cut)
HH: Hollow Heart
VD: Vascular Discoloration
IBS: Internal Brown Spot
BC: Brown Center

³CHIP COLOR SCORE -
Snack Food Association Scale
(Out of the field)
Ratings: 1 - 5
1: Excellent
5: Poor

⁴VINE VIGOR RATING
Date Taken: 13-Jun-14
Ratings: 1 - 5
1: Slow Emergence
5: Early Emergence (vigorous vine, some flowering)

⁵VINE MATURITY RATING
Date Taken: 1-Aug-14
Ratings: 1 - 5
1: Early (vines completely dead)
5: Late (vigorous vine, some flowering)

Planted: 1-May-14
Vines Killed: 4-Sep-14
Days from Planting to Vine Kill: 126
Seed Spacing: 10"
Fumigation

⁶MAWN STATION: Constantine
Planting to Vine Kill

¹data not replicated

2014 MSU Processing Potato Variety Trials

Entry	Pedigree	2014 Scab Rating*	Characteristics
Atlantic	Wauseon X B5141-6 (Lenape)	2.6	High yield, early maturing, high incidence of internal defects, high specific gravity
Elkton (B1992-106)	B1255-5 X B0564-9	1.8	Medium to medium-late maturity, high yield potential, round to oval tuber type, light netted skin
FL1879	Snowden X FL1207	2.5	High yield, late maturity, large tuber type, late season storage, medium specific gravity
Lamoka (NY139)	NY120 X NY115	1.5	High yield, mid-late season maturity, medium specific gravity, oval to oblong tuber type, low internal defects, long term chip quality
Manistee (MSL292-A)	Snowden X MSH098-2	1.9	Average yield, scab tolerance similar to Snowden, late blight susceptible, medium specific gravity, long storage potential, uniform, flat round tuber type, heavy netted skin
McBride (MSR169-8Y)	Pike X MSJ126-9Y	1.1	Below average yield, medium maturity, yellow flesh, average specific gravity, common scab tolerant
MegaChip (W1201)	WISCHIP X FYF85	1.0****	High specific gravity, round oval tubers, medium-large size, common scab resistant, deep apical eye
Nicolet (W2133-1)	Snowden X S440	1.8****	Medium yield, similar to Snowden, high specific gravity, mid-season chip quality
Pike (NYE55-35)	Allegany X Atlantic	1.3	Average yield, early to mid-season maturity, small tuber size profile, early storage, some internal defects, medium specific gravity
Pinnacle (W5015-12)	Brodick X W1355-1	2.6*	High tuber set and yield, medium-late vine maturity, uniform size tubers, tubers tend toward flat shape, very flat in some environments
Snowden (W855)	B5141-6 X Wischip	2.6	High yield, late maturity, mid-season storage, reconditions well in storage, medium to high specific gravity
Sebec (AF0338-17)	AF303-5 X SA8211-6	2.1	High yielding, round white, early bulking, moderately susceptible to common scab, resistant to verticillium wilt
A00188-3C	A91790-13 X Dakota Pearl	1.5***	Medium yield, scaly buff skin, high specific gravity, mid-season chip quality, common scab tolerance

*Scab rating based on 0-5 scale; 0 = most resistant and 5 = most susceptible. *2013 data, **2012 data, ***2010 data, ****2009 data, *****2005 data. Common Scab data provided by MSU Potato Breeding and Genetics Program. † 2014 Long Potato Group data.

Entry	Pedigree	2014 Scab Rating*	Characteristics
A01143-3C	COA95070-8 X Chipeta	1.8***	Average yielding, scaly buff chipper, smaller tuber size, late maturity, high incidence of sheep-nose
AC01151-5W	COA96142-7 X NDA2031-2	1.5†	Low yielding, high specific gravity, medium maturity, medium vine size, round tuber with white skin and white flesh
AF4157-6	Yankee Chipper X Dakota Chipper	1.0†	Medium earl maturity, round to oblong netted tubers, good gravity, good chip color from the field and storage, common scab tolerant
BNC182-5	Tacna X B0766-3	1.6	Short dormancy, above average yield potential, common scab tolerant, average chip quality, late blight susceptible, large round flat to oval tuber type
CO02024-9W	A91790-13W X CO95051-7W	2.0†	Medium maturity, high yield potential, good chip color, medium to low specific gravity
CO02321-4W	NY115 X BC0894-2W	2.8	Average yield potential, average specific gravity, medium maturity, common scab susceptible
CO03243-3W	BC894-2W X A91790-13W	1.5†	Large vine size with medium maturity, large yield potential, medium specific gravity
MSL007-B	MSA105-1 X MSG227-2	1.9	Average yield potential, early to mid-season maturity, uniform tuber type, medium specific gravity, scab tolerant, heavy netted skin
MSR127-2	MSJ167-1 X MSG227-2	1.4	Scab tolerant, high specific gravity, good chip quality from storage, above average yield potential, medium-late maturity
MSS428-1	Snowden X NY121	2.0†	Below average yield, early maturity, common scab susceptible, low specific gravity, high incidence of hollow heart
MSS934-4	ND6095-1 X ND7377Cb-1	2.9*	High yield, oval to oblong tuber type, common scab susceptible
NYJ15-7	MSK061-4 X Marcy	2.4	High yield, late maturity, medium to high specific gravity, scab susceptible, high incidence of hollow heart

*Scab rating based on 0-5 scale; 0 = most resistant and 5 = most susceptible. * 2013 data, **2012 data, ***2010 data, ****2009 data, *****2005 data. Common Scab data provided by MSU Potato Breeding and Genetics Program. † 2014 Long Potato Group data.

Entry	Pedigree	2014 Scab Rating*	Characteristics
NY148	NY128 X Marcy	1.5	Full season maturity, high gravity, scab-resistant chip stock, good yield potential, medium to late season storage quality, black spot bruise susceptible
NY152 (NYH15-5)	B38-14 X Marcy	2.8	Medium to high specific gravity, high yield potential, common scab susceptible, late maturing
NY154 (NYH15-17)	B38-14 X Marcy	1.6	High yield potential, high specific gravity, moderate common scab tolerant, late maturing
W5955-1	Pike X C31-5-120	1.6	Average yield, high specific gravity, size profile similar to Atlantic, long storage potential, pear-shaped
W6609-3	Pike X Dakota Pearl	0.9	Long term storage potential, common scab resistance, good specific gravity
W6822-3	-	1.8	Average yield, medium maturity, high specific gravity, susceptible to internal defects, common scab tolerant

*Scab rating based on 0-5 scale; 0 = most resistant and 5 = most susceptible. * 2013 data, **2012 data, ***2010 data, ****2009 data, *****2005 data. Common Scab data provided by MSU Potato Breeding and Genetics Program. † 2014 Long Potato Group data.