

2015 Statewide Chip Processing Potato Variety Trials

Overall Average- Ten Locations

LINE	CWT/A		PERCENT OF TOTAL ¹					SP GR	OTF CHIP SCORE ³	RAW TUBER QUALITY ² (%)				COMMON	VINE VIGOR ⁵	VINE MATURITY ⁶	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO			HH	VD	IBS	BC	SCAB RATING ⁴			
MSV033-1 ⁱ	765	815	94	4	86	8	2	1.081	1.0	3	58	3	0	0.0	3.5	3.4	uniform round tuber type, heat sprouts, sticky stolons
MSV313-2 ^{gj}	631	651	97	2	53	44	1	1.083	1.0	0	18	0	0	0.5	3.8	2.8	large round tuber type, heavy netted skin, gc
NY152 ^j	596	676	88	10	81	7	2	1.074	1.0	0	13	3	0	1.2	2.5	3.5	sl compressed tuber type
NY154 ^{abcddefghj}	592	629	93	6	86	7	1	1.083	1.1	3	31	2	0	0.8	3.1	3.2	netted skin type, flat to oval tuber type, alligator hide
NY157 ^{abcddefgj}	552	595	92	6	85	7	2	1.081	1.0	0	23	1	3	0.4	3.1	2.9	alligator hide, oval to pear shaped tuber type
A01143-3C ^{aefgh}	535	610	87	9	83	4	4	1.081	1.2	0	23	5	0	0.6	3.5	3.5	knobby tuber shape, sheepnosing in pickouts, heat sprouts, sl alligator hide
FL1879^{aefj}	533	560	93	6	68	25	1	1.079	1.1	5	22	13	3	0.6	2.8	2.3	severe pink eye, alligator hide, flattened tuber shape
MSW474-1 ^{gi}	522	642	80	20	78	2	0	1.086	1.0	0	3	0	0	0.3	4.0	2.9	compressed tuber type, heavy netted skin, sl sheep nose
Snowden^{abefghij}	514	559	91	7	81	10	2	1.083	1.0	2	40	2	0	2.1	3.3	2.0	compressed tuber type, pink eye, netted skin type, gc
MSX540-4 ^{gj}	507	572	88	11	87	1	1	1.096	1.3	0	24	3	0	1.0	4.0	2.5	sticky stolons, round pointed tuber type
W6822-3 ^j	502	562	88	9	76	12	3	1.085	1.0	2	14	23	0	0.6	3.3	2.2	points in tubers, moderate pinkeye
Pike^{aefj}	474	502	91	9	86	5	0	1.085	1.0	0	25	28	0	0.0	3.0	2.6	sl alligator hide, round to pear shaped tuber type
AF4975-3 ^{aefgj}	466	517	89	8	76	13	3	1.082	1.5	2	19	20	7	0.4	3.6	2.4	heat sprouts, knobby tuber shape, raised lenticels
CO03243-3W ^{abcddefghij}	461	497	92	6	80	12	2	1.076	1.2	1	18	0	0	1.8	2.9	3.2	uniform round tuber type, thin skin, sl rot
Manistee ^{abcddefgj}	455	483	93	6	81	12	1	1.081	1.0	4	27	1	0	1.8	2.6	2.2	compressed tuber type, netted skin type, sl alligator hide
Lamoka^{abcddefgij}	449	477	94	4	80	14	2	1.082	1.0	0	38	6	0	0.6	3.6	2.7	oval to pear shaped tuber type, alligator hide
AF4648-2 ^{abcddefghij}	448	494	90	8	79	11	2	1.080	1.2	1	6	1	0	0.2	2.7	2.8	oval shaped tuber type, bright tuber appearance, sl alligator hide
W5955-1 ^{abcddefghj}	440	490	89	8	76	13	3	1.083	1.0	5	19	7	1	0.3	3.3	2.9	alligator hide, netted skin type, uniform round shaped tubers
NY148 ^h	426	475	90	7	85	5	3	1.082	1.0	0	0	0	0	0.5	2.0	4.0	
Atlanticⁱ	418	452	93	4	68	25	3	1.081	1.0	30	3	0	0	0.7	3.0	2.0	netted skin type
AC01151-5W ⁱ	400	542	74	24	71	3	2	1.072	1.0	3	10	3	0	2.7	2.5	4.0	gc
A00188-3C ⁱ	384	487	79	13	76	3	8	1.079	1.0	0	7	0	0	0.0	4.0	3.5	pointed tubers in pickouts
MSR127-2 ^g	362	428	85	15	85	0	0	1.093	1.0	0	20	0	0	0.0	3.5	2.5	small uniform tuber size
AC03433-1W ⁱ	320	375	85	7	62	23	8	1.068	1.0	40	20	0	0	1.7	1.5	3.5	
MEAN	490	545	89	9	78	11	2	1.081	1.1	4	20	5	1	0.8	3.1	2.9	tr = trace, sl = slight, N/A = not available gc=growth crack

2015 Chip Variety Trial Sites

^aCounty Line Farms; Allegan Co.

^bCrooks Farms; Set #1; Montcalm Co.

^cCrooks Farms; Set#2; Montcalm Co.

^dCrooks Farms; Set#3; Montcalm Co.

^eLennard Ag. Company; St. Joseph Co.

^fMain Farms; Montcalm Co.

^gMSU Box Bin Trial; Montcalm Co.

^hSandyland Farms; Set #1; Montcalm Co.

ⁱSandyland Farms; SFA Trial (replicated); Montcalm Co.

^jWalther Farms (replicated); St. Joseph Co.

¹SIZE

Bs: < 4.0 oz.

As: 4.0 - 10.0 oz.

OV: > 10 oz.

PO: Pickouts

³CHIP COLOR SCORE - Snack Food Association Scale

(Out of the field)

Ratings: 1 - 5

1: Excellent

5: Poor

⁴COMMON SCAB RATING

0.0: Complete absence of surface or pitted lesions

1.0: Presence of surface lesions

2.0: Pitted lesions on tubers, though coverage is low

3.0: Pitted lesions common on tubers

4.0: Pitted lesions severe on tubers

5.0: More than 50% of tuber surface area covered in pitted lesions

²TUBER QUALITY (percentage of tubers)

HH: Hollow Heart

VD: Vascular Discoloration

IBS: Internal Brown Spot

BC: Brown Center

⁵VINE VIGOR RATING

Ratings: 1 - 5

1: Slow Emergence

5: Early Emergence

(vigorous vine, some flowering)

⁶VINE MATURITY RATING

Ratings: 1 - 5

1: Early (vines completely dead)

5: Late (vigorous vine, some flowering)

2015 Processing Potato Variety Trial County Line Farms, Allegan County, MI

Harvest 13-Oct-15 140 Days

DD, Base 40⁷ 3436

LINE	CWT/A		PERCENT OF TOTAL ¹						CHIP SCORE ³	RAW TUBER QUALITY ² (%)				COMMON	VINE	VINE	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR		HH	VD	IBS	BC	SCAB RATING ⁴	VIGOR ⁵	MATURITY ⁶	
NY157	335	373	90	8	80	10	2	1.078	1.0	0	50	0	0	0.0	3.0	3.5	alligator hide, misshapen pickouts
Lamoka	314	341	92	8	79	13	0	1.075	1.0	0	20	0	0	0.0	3.5	2.5	alligator hide
A01143-3C	312	393	79	17	76	3	3	1.074	1.0	0	30	0	0	0.0	3.5	4.0	severe sheep nose in pickouts, sl alligator hide
AF4648-2	270	328	82	17	80	2	1	1.076	1.0	0	0	0	0	0.0	2.5	2.5	alligator hide
Snowden	265	338	79	21	76	3	0	1.082	1.0	0	30	0	0	2.5	3.0	2.0	sl alligator hide
AF4975-3	252	300	84	16	77	7	0	1.079	1.0	0	30	0	0	0.0	3.5	2.5	sheep nose, alligator hide
NY154	218	255	85	13	72	13	2	1.073	1.0	0	40	0	0	0.0	3.5	3.5	alligator hide
W5955-1	204	230	89	11	78	11	0	1.074	1.0	0	40	0	0	0.0	1.5	4.0	alligator hide
FL1879	178	213	83	17	65	18	0	1.076	1.0	0	20	0	0	0.0	1.5	2.5	alligator hide
Manistee	177	214	83	17	68	14	0	1.077	1.0	30	40	0	0	2.5	1.0	2.5	alligator hide
CO03243-3W	168	197	85	13	75	10	1	1.070	1.0	0	20	0	0	2.0	1.5	3.5	alligator hide, two tubers with late blight
Pike	157	200	78	22	74	4	0	1.077	1.0	0	30	0	0	0.0	1.5	3.0	sl alligator hide
MEAN	237	282	84	15	75	9	1	1.076	1.0	3	29	0	0	0.6	2.5	3.0	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
(percentage of tubers out of 10)
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

⁵VINE VIGOR RATING
Date: 24-Jun-15
Ratings: 1 - 5
1: Slow Emergence
5: Early Emergence (vigorous vine, some flowering)

⁶VINE MATURITY RATING
Date: 28-Aug-15
Ratings: 1 - 5
1: Early (vines completely dead)
5: Late (vigorous vine, some flowering)

Planted: 26-May-15
Vines Killed: 22-Sep-15
Days from Planting to Vine Kill: 119
Seed Spacing: 10"
Fumigation: No

⁴COMMON SCAB RATING
0.0: Complete absence of surface or pitted lesions
1.0: Presence of surface lesions
2.0: Pitted lesions on tubers, though coverage is low
3.0: Pitted lesions common on tubers
4.0: Pitted lesions severe on tubers
5.0: More than 50% of tuber surface area covered in pitted lesions

⁷MAWN STATION: Allegan
Planting to Vine Kill

2015 "Select" Processing Potato Variety Trial; Set #1

Crooks Farms, Deaner rd., Montcalm County, MI

Harvest 22-Sep-15 145 Days

DD, Base 40⁷ 3102

LINE	CWT/A		PERCENT OF TOTAL ¹					SP GR	CHIP SCORE ³	RAW TUBER QUALITY ² (%)				COMMON SCAB RATING ⁴	VINE VIGOR ⁵	VINE MATURITY ⁶	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO			HH	VD	IBS	BC				
NY157	582	610	95	2	93	3	2	1.080	1.0	0	20	0	0	0.0	3.5	2.0	flat oval tuber type, tr points
NY154	531	555	96	4	95	1	0	1.081	1.0	0	0	0	0	0.0	2.5	1.0	
CO03243-3W	526	538	98	2	90	7	0	1.079	1.5	0	30	0	0	2.0	3.0	2.0	4 rotten tubers in plot,
Lamoka	481	503	96	4	81	15	0	1.079	1.0	0	70	0	0	0.5	3.0	1.0	sl skinning, oval to oblong tuber type
Snowden	419	444	94	5	88	6	1	1.086	1.0	10	40	0	0	2.0	3.5	0.5	
W5955-1	395	458	86	9	86	0	5	1.080	1.0	0	10	0	0	0.5	4.0	0.0	points in pickouts
AF4648-2	394	439	90	8	90	0	3	1.077	1.5	0	20	0	0	0.0	2.0	1.0	oval tuber type, thin skin
Manistee	393	408	96	4	85	11	0	1.082	1.0	0	20	0	0	2.0	2.5	0.5	flat apical to stem end, netted skin type
MEAN	465	494	94	5	88	5	1	1.081	1.1	1	26	0	0	0.9	3.0	1.0	

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
 (percentage of tubers out of 10)
 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

⁵VINE VIGOR RATING
 Date Taken: 1-Jun-15
 Ratings: 1 - 5
 1: Slow Emergence
 5: Early Emergence (vigorous vine, some flowering)

⁶VINE MATURITY RATING
 Date Taken: 17-Aug-15
 Ratings: 1 - 5
 1: Early (vines completely dead)
 5: Late (vigorous vine, some flowering)

Planted: 30-Apr-15
 Vines Killed: 1-Sep-15
 Days from Planting to Vine Kill: 124
 Seed Spacing : 10"
 Fumigation: No

⁴ COMMON SCAB RATING
 0.0: Complete absence of surface or pitted lesions
 1.0: Presence of surface lesions
 2.0: Pitted lesions on tubers, though coverage is low
 3.0: Pitted lesions common on tubers
 4.0: Pitted lesions severe on tubers
 5.0: More than 50% of tuber surface area covered in pitted lesions

⁷MAWN STATION: Entrican
 Planting to Vine Kill

2015 "Select" Processing Potato Variety Trial; Set #2

Crooks Farms, Peoples Rd., Montcalm County, MI

Harvest 7-Oct-15

146 Days

DD, Base 40⁷ 2680

LINE	CWT/A		PERCENT OF TOTAL ¹				SP GR	CHIP SCORE ³	RAW TUBER QUALITY ² (%)				COMMON SCAB RATING ⁴	VINE VIGOR ⁵	VINE MATURITY ⁶	COMMENTS	
	US#1	TOTAL	US#1	Bs	As	OV			PO	HH	VD	IBS					BC
NY154	685	712	96	4	93	3	0	1.091	1.0	0	10	0	0	2.0	2.5	4.5	flat oval tuber type
CO03243-3W	666	694	96	4	83	13	0	1.083	1.0	0	0	0	0	2.0	3.0	3.0	flat oval tuber type
NY157	648	673	96	4	95	1	0	1.089	1.0	0	10	0	0	0.0	3.0	4.0	oval to oblong tuber type
W5955-1	585	643	91	9	83	8	0	1.090	1.0	10	20	0	0	0.0	3.5	4.5	flat round tuber type
Lamoka	564	593	95	3	75	20	2	1.084	1.0	0	20	10	0	0.0	4.0	4.0	oval tuber type, sl alligator hide
Manistee	522	558	94	4	89	5	2	1.086	1.0	0	20	0	0	2.5	2.5	4.0	flat apical to stem end
AF4648-2	504	555	91	7	83	8	2	1.080	1.0	0	20	0	0	0.0	2.0	4.0	flat round tuber type
Lamoka (Field)	438	475	92	5	86	6	3	1.089	1.0	0	10	0	0	0.5	4.0	4.0	oval tuber type, sl alligator hide
MEAN	576	613	94	5	86	8	1	1.087	1.0	1	14	1	0	0.9	3.1	4.0	

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
(percentage of tubers out of 10)
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

⁵VINE VIGOR RATING
Date: 10-Jun-15
Ratings: 1 - 5
1: Slow Emergence
5: Early Emergence (vigorous vine, some flowering)

⁶VINE MATURITY RATING
Date: 17-Aug-15
Ratings: 1 - 5
1: Early (vines completely dead)
5: Late (vigorous vine, some flowering)

Planted: 14-May-15
Vines Killed: 26-Aug-15
Days from Planting to Vine Kill: 104
Seed Spacing : 10"
Fumigation: No

⁴COMMON SCAB RATING
0.0: Complete absence of surface or pitted lesions
1.0: Presence of surface lesions
2.0: Pitted lesions on tubers, though coverage is low
3.0: Pitted lesions common on tubers
4.0: Pitted lesions severe on tubers
5.0: More than 50% of tuber surface area covered in pitted lesions

⁷MAWN STATION: Entrican
Planting to Vine Kill

2015 "Select" Processing Potato Variety Trial; Set #3

Crooks Farms, Wyman rd., Montcalm County, MI

Harvest 7-Oct-15 119 Days

DD, Base 40⁷ 2999

LINE	CWT/A		PERCENT OF TOTAL ¹					SP GR	CHIP SCORE ³	RAW TUBER QUALITY ² (%)				COMMON SCAB RATING ⁴	VINE VIGOR ⁵	VINE MATURITY ⁶	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO			HH	VD	IBS	BC				
NY157	461	495	93	7	88	5	0	1.086	1.0	0	60	0	0	1.0	3.0	4.0	alligator hide
NY154	436	454	96	4	85	11	0	1.086	1.0	20	40	0	0	2.5	2.5	4.0	alligator hide, pink eye
CO03243-3W	367	401	91	9	89	2	0	1.077	1.5	0	30	0	0	3.5	2.5	4.0	uniform round tuber type
Manistee	357	375	95	5	87	8	0	1.079	1.0	0	40	0	0	3.0	3.0	3.0	flat apical to stem end
Lamoka	356	381	93	5	77	16	2	1.079	1.0	0	50	20	0	3.0	3.0	3.0	oval tuber type
AF4648-2	309	369	84	14	82	2	2	1.082	1.0	10	10	0	0	1.0	2.5	3.5	flat oval tuber type, tc pear shape tuber
W5955-1	261	313	83	13	78	5	4	1.087	1.0	0	20	0	0	0.5	2.5	4.0	pointed tubers in pickouts
MEAN	364	398	91	8	84	7	1	1.082	1.1	4	36	3	0	2.3	2.7	3.6	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
(percentage of tubers out of 10)
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

⁵VINE VIGOR RATING
Date: 6-Jul-15
Ratings: 1 - 5
1: Slow Emergence
5: Early Emergence (vigorous vine, some flowering)

⁶VINE MATURITY RATING
Date: 31-Aug-15
Ratings: 1 - 5
1: Early (vines completely dead)
5: Late (vigorous vine, some flowering)

Planted: 10-Jun-15
Vines Killed: 28-Sep-15
Days from Planting to Vine Kill: 110
Seed Spacing : 10"
Fumigation: No

⁴ COMMON SCAB RATING
0.0: Complete absence of surface or pitted lesions
1.0: Presence of surface lesions
2.0: Pitted lesions on tubers, though coverage is low
3.0: Pitted lesions common on tubers
4.0: Pitted lesions severe on tubers
5.0: More than 50% of tuber surface area covered in pitted lesions

⁷MAWN STATION: Entrican
Planting to Vine Kill

2015 Processing Potato Variety Trial
Lennard Ag., St. Joseph County, MI
Harvest 6-Oct-15 151 Days
DD, Base 40⁷ 3613

LINE	CWT/A		PERCENT OF TOTAL ¹						CHIP SCORE ³	RAW TUBER QUALITY ² (%)				COMMON SCAB	VINE VIGOR ⁵	VINE MATURITY ⁶	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP		GR	HH	VD	IBS	BC	RATING ⁴		
NY154	815	845	96	3	82	14	1	1.083	1.5	0	100	0	0	0.0	3.0	3.0	nice uniform tuber type, netted skin type
FL1879	768	789	97	2	55	42	1	1.081	1.0	10	40	30	0	0.0	3.5	3.0	severe pink eye and alligator hide
Snowden	741	767	97	2	75	22	1	1.081	1.0	0	80	10	0	2.0	3.5	2.5	netted skin type, uniform tuber type
A01143-3C	646	699	92	4	79	13	4	1.080	1.0	0	40	20	0	0.5	4.0	3.5	alligator hide, sheep nosing in pickouts
Pike	643	655	98	2	86	12	0	1.089	1.0	0	20	40	0	0.0	3.5	2.5	alligator hide, bright skin, uniform round tuber type
AF4648-2	629	673	94	4	77	17	2	1.083	1.0	0	0	0	0	0.0	2.5	3.0	gc in pickouts, thin skin, bright appearance, sl pink eye and alligator hide
NY157	598	634	94	4	80	14	2	1.075	1.0	0	10	10	20	0.0	3.0	2.5	alligator hide
W5955-1	578	613	94	4	65	29	2	1.082	1.0	10	20	20	10	0.0	4.0	3.0	tr greening, tr rot, alligator hide, light netted skin type, uniform round tuber type
Manistee	546	562	97	3	79	18	0	1.081	1.0	0	50	0	0	0.0	3.0	2.0	sl greening, flat tuber type apical to stem end
Lamoka	512	546	94	3	60	34	3	1.083	1.0	0	100	0	0	0.0	3.5	3.5	severe alligator hide, oval tuber type
AF4975-3	505	587	86	4	63	23	10	1.078	2.0	0	0	60	0	0.0	3.5	3.5	heat sprouts and deep apical eyes in pickouts, sl rot
CO03243-3W	391	432	91	6	72	19	3	1.068	1.5	10	10	0	0	0.0	3.0	3.5	severe alligator hide and pink eye, misshapen pickouts, sl greening
MEAN	614	650	94	3	73	21	2	1.081	1.2	3	39	16	3	0.2	3.3	3.0	

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
(percentage of tubers out of 10)
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

⁵VINE VIGOR RATING
Date: 11-Jun-15
Ratings: 1 - 5
1: Slow Emergence
5: Early Emergence (vigorous vine, some flowering)

⁶VINE MATURITY RATING
Date: 13-Aug-15
Ratings: 1 - 5
1: Early (vines completely dead)
5: Late (vigorous vine, some flowering)

Planted: 8-May-15
Vines Killed: 17-Sep-15
Days from Planting to Vine Kill: 132
Seed Spacing: 10"
Fumigation: No

⁴COMMON SCAB RATING
0.0: Complete absence of surface or pitted lesions
1.0: Presence of surface lesions
2.0: Pitted lesions on tubers, though coverage is low
3.0: Pitted lesions common on tubers
4.0: Pitted lesions severe on tubers
5.0: More than 50% of tuber surface area covered in pitted lesions

⁷MAWN STATION: Constantine
Planting to Vine Kill

2015 Processing Potato Variety Trial
Main Farms, Montcalm County, MI
Harvest 10-Sep-15 133 Days
DD, Base 40⁷ 2984

LINE	CWT/A		PERCENT OF TOTAL ¹					SP GR	CHIP SCORE ³	RAW TUBER QUALITY ² (%)				COMMON SCAB RATING ⁴	VINE VIGOR ⁵	VINE MATURITY ⁶	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO			HH	VD	IBS	BC				
NY157	780	815	96	2	76	20	2	1.086	1.0	0	0	0	0	0.0	2.5	3.5	pear shaped tubers, flat tuber type
NY154	660	690	94	5	93	1	1	1.091	1.0	0	10	0	0	0.5	2.5	3.5	tr pear shaped tubers
CO03243-3W	655	677	97	2	86	11	1	1.090	1.0	0	20	0	0	2.5	3.0	3.5	severe alligator hide, round tuber type, rhizoctonia
A01143-3C	595	671	89	8	88	1	3	1.091	1.5	0	30	10	0	2.0	2.5	3.5	sheep nose and misshapen tubers in pickouts
Manistee	566	575	98	2	82	16	0	1.084	1.0	0	20	0	0	1.5	2.5	1.5	flat apical to stem end tubers with greening
Snowden	555	585	95	4	90	5	1	1.096	1.0	0	40	0	0	3.0	3.0	1.5	severe pinkeye
Pike	467	501	93	6	91	2	1	1.087	1.0	0	30	70	0	0.0	3.5	2.5	small overall tuber size, tr pear shaped tubers
FL1879	466	484	96	2	85	11	2	1.082	1.0	0	10	0	10	2.5	3.0	1.0	severe pinkeye
AF4975-3	457	492	93	6	86	7	1	1.084	1.5	0	20	0	0	0.0	3.5	1.5	raised lenticels
AF4648-2	457	494	93	4	87	6	3	1.084	1.0	0	0	0	0	0.0	2.0	3.0	oval tuber type, smooth skin type
Lamoka	451	476	95	3	88	7	2	1.090	1.0	0	20	0	0	0.5	3.0	2.5	sl pear shaped tubers
W5955-1	420	472	89	7	81	8	4	1.089	1.0	10	10	10	0	0.0	3.5	2.5	netted skin tuber type, sl pointed tubers
MEAN	544	578	94	4	86	8	2	1.088	1.1	1	18	8	1	1.0	2.9	2.5	

tr = trace, sl = slight, N/A = 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
(percentage of tubers out of 10)
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

⁵VINE VIGOR RATING
Date Taken: 1-Jun-15
Ratings: 1 - 5
1: Slow Emergence
5: Early Emergence (vigorous vine, some flowering)

⁶VINE MATURITY RATING
Date Taken: 17-Aug-15
Ratings: 1 - 5
1: Early (vines completely dead)
5: Late (vigorous vine, some flowering)

Planted: 30-Apr-15
Vines Killed: 28-Aug-15
Days from Planting to Vine Kill: 120
Seed Spacing: 10"
No Fumigation

⁴COMMON SCAB RATING
0.0: Complete absence of surface or pitted lesions
1.0: Presence of surface lesions
2.0: Pitted lesions on tubers, though coverage is low
3.0: Pitted lesions common on tubers
4.0: Pitted lesions severe on tubers
5.0: More than 50% of tuber surface area covered in pitted lesions

⁷MAWN STATION: Entrican
Planting to Vine Kill

2015 MPIC Box Bin Processing Potato Variety Trial MSU Montcalm Research Center, Montcalm County, MI

Harvest date **5-Oct-15** **156 Days**
DD, Base 40⁶ **3364**

LINE	CWT/A		PERCENT OF TOTAL ¹					SP GR	CHIP SCORE ³	RAW TUBER QUALITY (%) ²				COMMON			COMMENTS ⁷
	US#1	TOTAL	US#1	Bs	As	OV	PO			HH	VD	IBS	BC	RATING ⁴	VIGOR ⁵	MATURITY ⁶	
A01143-3C	544	598	91	9	91	0	0	1.086	1.0	0	10	0	0	0.5	4.0	3.0	sheep nose, nice tuber size profile and yield
MSV313-2	516	537	96	3	59	37	1	1.084	1.0	0	20	0	0	1.0	4.0	2.5	uniform round tuber type, large tuber size, dark russeted skin gc and tr HH, candidate for the low N trial
NY154	495	549	90	8	88	2	2	1.089	1.5	0	20	0	0	0.5	4.0	3.0	flat oval tuber type, large yield, high tuber numbers
Snowden	450	508	89	9	81	7	2	1.089	1.0	0	60	0	0	3.0	3.5	1.5	
W5955-1	437	500	87	10	79	8	3	1.091	1.0	0	30	0	0	0.5	4.0	2.0	tr pointed tubers, 3.0 alligator hide
MSW474-1	399	548	73	27	70	2	0	1.090	1.0	0	0	0	0	0.5	4.5	2.5	uniform round tuber type, sticky stolons
CO03243-3W	397	450	88	4	64	24	8	1.080	1.5	0	10	0	0	2.5	3.0	2.5	gc and knobs in pickouts, tr tuber rot
Manistee	396	453	88	11	77	10	1	1.084	1.0	0	10	0	0	3.0	3.0	2.0	flat apical to stem end tubers
Lamoka	391	422	93	6	91	1	1	1.087	1.0	0	30	0	0	1.0	4.5	1.0	oval tuber type, variable tuber type, tr black leg
AF4975-3	369	418	88	10	84	4	2	1.086	1.5	0	20	0	30	2.0	3.5	1.5	uniform round tuber type
MSX540-4	369	418	88	11	88	0	1	1.099	1.5	0	30	0	0	2.0	4.5	2.0	oval tuber type
MSR127-2	362	428	85	15	85	0	0	1.093	1.0	0	20	0	0	0.0	3.5	2.5	small uniform tuber size
NY157	356	435	82	16	82	0	2	1.080	1.0	0	20	0	0	2.0	3.5	1.0	oval tuber type, resprouting
AF4648-2	339	378	90	10	87	3	0	1.083	1.0	0	0	0	0	0.5	4.0	2.0	bright appearance, oval tuber type
MEAN	416	474	88	11	81	7	2	1.087	1.1	0	20	0	2	1.4	3.8	2.1	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 (percentage of tubers out of 10)
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

⁵VINE VIGOR RATING
Date: 10-Jun-15
Ratings: 1 - 5
1: Slow Emergence
5: Early Emergence (vigorous vine, some flowering)

⁶VINE MATURITY RATING
Date: 14-Aug-15
Ratings: 1 - 5
1: Early (vines completely dead)
5: Late (vigorous vine, some flowering)

Planted: 2-May-15
Vines Killed: 10-Sep-15
Days from Planting to Vine Kill: 131
Seed Spacing: 10"
Fumigation: No

⁴COMMON SCAB RATING
0.0: Complete absence of surface or pitted lesions
1.0: Presence of surface lesions
2.0: Pitted lesions on tubers, though coverage is low
3.0: Pitted lesions common on tubers
4.0: Pitted lesions severe on tubers
5.0: More than 50% of tuber surface area

⁷ALLIGATOR HIDE RATING
0.0: No incidence of raised corky skin spots
2.0: Unmarketable corky skin spots
5.0: Multiple, large corky skin lesions, covering a significant amount of surface area of the tuber

⁶MAWN STATION: Entrican
Planting to Vine Kill

2015 Processing Potato Variety Trial

Sandyland Farms, Montcalm County, MI

Harvest **21-Sep-15** **118** Days
DD, Base 40⁷ **3076**

LINE	CWT/A		PERCENT OF TOTAL ¹					SP GR	CHIP SCORE ³	RAW TUBER QUALITY ² (%)				COMMON SCAB RATING ⁴	VINE VIGOR ⁵	VINE MATURITY ⁶	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO			HH	VD	IBS	BC				
NY154	707	774	91	6	83	8	3	1.077	1.0	0	30	20	0	1.5	4.0	3.5	
AF4648-2	490	536	91	3	71	20	6	1.077	1.5	0	0	10	0	0.5	3.5	3.0	
A01143-3C	485	536	91	6	87	4	3	1.075	1.5	0	10	0	0	0.5	3.0	3.5	
Snowden	431	495	87	7	78	9	6	1.075	1.0	0	20	0	0	2.5	3.0	3.0	gc and deep apical eye
NY148	426	475	90	7	85	5	3	1.082	1.0	0	0	0	0	0.5	2.0	4.0	
CO03243-3W	389	432	90	8	85	5	2	1.069	1.0	0	20	0	0	2.5	3.0	3.5	gc
W5955-1	376	436	86	6	68	18	8	1.078	1.0	10	0	20	0	1.0	3.0	3.0	knobby tubers in pickouts
MEAN	472	526	90	6	80	10	4	1.076	1.1	1	11	7	0	1.3	3.1	3.4	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
(percentage of tubers out of 10)
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

⁵VINE VIGOR RATING
Date: 24-Jun-15
Ratings: 1 - 5
1: Slow Emergence
5: Early Emergence (vigorous vine, some flowering)

⁶VINE MATURITY RATING
Date: 31-Aug-15
Ratings: 1 - 5
1: Early (vines completely dead)
5: Late (vigorous vine, some flowering)

Planted: 26-May-15
Vines Killed: 17-Sep-15
Days from Planting to Vine Kill: 114
Seed Spacing: 12"
Fumigation: Yes

⁴COMMON SCAB RATING
0.0: Complete absence of surface or pitted lesions
1.0: Presence of surface lesions
2.0: Pitted lesions on tubers, though coverage is low
3.0: Pitted lesions common on tubers
4.0: Pitted lesions severe on tubers
5.0: More than 50% of tuber surface area covered in pitted lesions

⁷MAWN STATION: Entrican
Planting to Vine Kill

2015 Chip Processing Potato Variety Trial

Walther Farms, St. Joseph County, MI

Harvest 11-Sep-15 133 Days
DD, Base 40⁷ 3461

LINE	CWT/A		PERCENT OF TOTAL ¹					SP GR*	CHIP SCORE ^{3*}	RAW TUBER QUALITY ² (%)				COMMON SCAB RATING ⁴	VINE VIGOR ⁵	VINE MATURITY ⁶	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO			HH	VD	IBS	BC				
NY154	779	827	94	6	83	11	0	1.080	1.0	3	28	0	0	0.0	3.6	2.5	sticky stolons
MSV033-1	765	815	94	4	86	8	2	1.081	1.0	3	58	3	0	0.0	3.5	3.4	uniform round tuber type, heat sprouts, sticky stolons
AF4975-3	746	789	94	4	71	23	2	1.084	1.5	8	23	38	3	0.0	3.8	2.9	heat sprouts, knobby tuber shape, gc
MSV313-2	746	764	98	2	46	52	0	1.082	1.0	0	15	0	0	0.0	3.5	3.1	large round tuber type, heavy netted skin, gc
FL1879	719	753	96	3	67	29	1	1.077	1.5	10	18	23	0	0.0	3.1	2.5	
W5955-1	705	747	94	6	68	26	0	1.080	1.0	3	25	15	0	0.0	3.8	2.8	uniform round tuber type, sticky stolons
Manistee	685	717	96	3	83	13	1	1.073	1.0	0	15	5	0	0.0	3.3	2.1	flat apical to stem end
Snowden	671	698	96	4	80	16	0	1.080	1.0	3	30	3	0	0.0	3.5	2.6	sticky stolons
CO03243-3W	666	706	94	5	78	16	1	1.069	1.0	0	10	3	0	0.3	3.3	2.8	moderate alligator hide
NY157	659	725	90	3	86	4	7	1.077	1.0	0	13	0	3	0.0	3.1	2.5	moderate pinkeye, knobby tuber shape
W6822-3	648	689	94	6	77	17	0	1.090	1.0	0	15	35	0	0.3	3.6	2.4	points in tubers, moderate pinkeye
MSW474-1	644	737	87	12	86	1	0	1.081	1.0	0	5	0	0	0.0	3.5	3.3	flat apical to stem end, heavy netted skin, sl sheep nose
MSX540-4	645	725	89	10	86	3	1	1.093	1.0	0	18	5	0	0.0	3.5	3.0	sticky stolons, pointed tuber type
Lamoka	635	654	97	3	84	13	0	1.081	1.0	0	33	3	0	0.0	3.5	2.9	
AF4648-2	632	676	93	7	68	25	0	1.078	1.0	0	10	0	0	0.0	2.9	3.3	blocky tuber type
A01143-3C	631	762	82	7	79	3	11	1.083	1.0	0	15	3	3	0.1	4.0	3.4	knobby shape, severe heat sprouts, sticky stolons
Pike	627	652	96	4	93	3	0	1.086	1.0	0	20	0	0	0.0	3.4	2.3	sticky stolons
NYK28-18	577	659	87	9	86	1	4	1.084	1.0	0	13	10	0	0.0	3.8	2.3	flattened, pear-shaped tuber type, sticky stolons, knobs in pickouts
MEAN	677	727	93	5	78	15	2	1.081	1.1	2	20	8	0	0.03	3.5	2.8	tr = trace, sl = slight, N/A = not available
LSD_{0.05}	128	125	5.8	2.7	12.3	9.9	4.4			4.7	19.2	12.3	3.0	0.3	0.4	0.4	SED = stem end defect, gc = growth crack
ANOVA (Prob>F)	0.13	0.17	<.0001	<.0001	<.0001	<.0001	0.0002			0.001	0.001	<.0001	0.470	0.580	<.0001	<.0001	

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

²TUBER QUALITY
(percent of tubers out of 10)
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

⁵VINE VIGOR RATING
Date: 2-Jun-15
Ratings: 1 - 5
1: Slow Emergence
5: Early Emergence (vigorous vine, some flowering)

⁶VINE MATURITY RATING
Date: 13-Aug-15
Ratings: 1 - 5
1: Early (vines completely dead)
5: Late (vigorous vine, some flowering)

Planted: 1-May-15
Vines Killed: 3-Sep-15
Days from Planting to Vine Kill: 125
Seed Spacing: 10"
Fumigation: Yes

⁴COMMON SCAB RATING
0.0: Complete absence of surface or pitted lesions
1.0: Presence of surface lesions
2.0: Pitted lesions on tubers, though coverage is low
3.0: Pitted lesions common on tubers
4.0: Pitted lesions severe on tubers
5.0: More than 50% of tuber surface area covered in pitted lesions

*data not replicated

⁷MAWN STATION: Mendon
Planting to Vine Kill