

# **2016 Potato Outreach Program On-Farm Variety Trials**

## **Data Summary: Michigan Chip Processing Trials**

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## 2016 Michigan Statewide Chip Processing Potato Variety Trials Overall Averages- Fourteen Locations

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>					SP GR	OTF CHIP SCORE <sup>3</sup>	RAW TUBER QUALITY <sup>2</sup> (%)				COMMON			COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO			HH	VD	IBS	BC	SCAB RATING <sup>4</sup>	VINE VIGOR <sup>5</sup>	VINE MATURITY <sup>6</sup>	
<b>Atlantic<sup>f</sup></b>	<b>658</b>	<b>734</b>	<b>90</b>	<b>3</b>	<b>63</b>	<b>27</b>	<b>7</b>	<b>1.086</b>	<b>1.0</b>	<b>30</b>	<b>0</b>	<b>60</b>	<b>0</b>	<b>0.0</b>	<b>3.0</b>	<b>3.0</b>	misshapened tubers and pickouts
BNC182-5 <sup>l</sup>	630	672	94	6	77	17	0	1.077	1.0	0	57	0	0	0.2	4.0	3.2	
B2904-2 <sup>m</sup>	585	619	94	6	92	3	0	1.073	1.0	0	40	0	0	1.0	4.0	4.0	
W8822-1 <sup>ghkli</sup>	563	616	91	7	87	4	2	1.078	1.1	0	29	5	2	0.4	3.3	2.6	heavy netted skin, yellow flesh color
NY153 <sup>cdeghil</sup>	548	593	92	6	78	14	2	1.080	1.0	13	36	0	0	1.1	2.4	3.0	round, flattened shape
MSX540-4 <sup>acdeghijl</sup>	547	589	93	5	82	11	2	1.080	1.2	0	41	1	0	0.9	2.3	3.4	
MSV033-1 <sup>ghim</sup>	527	602	88	6	71	18	6	1.070	1.0	0	45	0	0	1.9	2.9	3.8	heat sprouts and gc in pickouts
MSR127-2 <sup>acdeghijkln</sup>	527	579	91	7	78	13	3	1.076	1.2	1	34	0	1	0.7	2.5	4.2	heavy netted skin, gc in pickouts, sl alligator hide
TX09396-1W <sup>ik</sup>	513	548	93	4	65	28	2	1.080	1.0	3	43	12	0	1.9	3.0	4.0	sticky stolons
MSW485-2 <sup>cdeghikl</sup>	512	575	89	11	84	5	1	1.080	1.0	7	40	6	4	0.8	2.9	4.1	nice overall tuber appearance, sl alligator hide, tr sticky stolons
NYL1-7 <sup>ghim</sup>	496	533	93	7	90	3	1	1.069	1.1	0	30	0	0	1.1	3.6	1.9	
NY152 <sup>acdeghijkln</sup>	493	578	84	15	82	2	1	1.073	1.1	0	34	2	1	0.8	2.8	3.0	small overall tuber size
NY162 <sup>ghim</sup>	483	529	91	6	82	9	3	1.073	1.0	0	35	3	0	1.1	2.3	2.6	
NC0349-3 <sup>bfgghikm</sup>	481	532	90	10	76	14	1	1.067	1.1	53	68	0	0	2.4	2.7	2.8	slightly flattened shape, severe scab
<b>Lamoka<sup>adeghikm</sup></b>	<b>473</b>	<b>524</b>	<b>90</b>	<b>7</b>	<b>79</b>	<b>12</b>	<b>3</b>	<b>1.075</b>	<b>1.1</b>	<b>0</b>	<b>43</b>	<b>1</b>	<b>0</b>	<b>0.8</b>	<b>3.3</b>	<b>3.0</b>	flattened, pear shaped tubers
MSZ219-14 <sup>l</sup>	468	531	88	4	81	8	8	1.067	1.0	7	43	0	0	0.5	4.0	2.5	heat sprouting, non-uniform tuber type
Manistee <sup>aghim</sup>	467	514	91	7	83	8	2	1.071	1.0	0	30	4	0	1.6	2.4	2.2	flattened apical to stem end, netted skin
<b>Snowden<sup>acghijklmn</sup></b>	<b>467</b>	<b>538</b>	<b>87</b>	<b>12</b>	<b>82</b>	<b>5</b>	<b>2</b>	<b>1.076</b>	<b>1.1</b>	<b>2</b>	<b>47</b>	<b>4</b>	<b>2</b>	<b>2.0</b>	<b>3.1</b>	<b>3.2</b>	
NYL7-2 <sup>ghim</sup>	465	502	92	6	81	11	2	1.072	1.0	0	25	0	0	0.9	2.9	2.1	light, smooth skin, round tuber type
MSV313-2 <sup>il</sup>	457	482	95	2	33	62	2	1.067	1.0	0	17	12	0	0.3	3.1	2.9	
MSV301-2 <sup>ghim</sup>	455	503	90	8	83	7	2	1.072	1.0	0	33	0	0	0.5	3.3	2.1	round tuber shape, tr sheep nosing
MSV358-3 <sup>ghim</sup>	454	517	88	10	86	2	2	1.073	1.1	0	25	0	0	0.1	3.0	2.1	uniform tuber type, netted skin
MSZ222-19 <sup>l</sup>	449	504	89	5	67	22	9	1.076	1.0	7	23	17	0	0.3	4.2	2.5	
NY154 <sup>i</sup>	444	497	89	7	72	17	4	1.076	1.0	0	50	0	0	0.0	3.5	3.5	
MSW474-1 <sup>cdeghijl</sup>	431	514	83	15	76	7	1	1.071	1.1	0	18	1	0	0.5	2.5	3.7	heavy netted skin, deep apical eye

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LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>					SP GR	OTF CHIP SCORE <sup>3</sup>	RAW TUBER QUALITY <sup>2</sup> (%)				COMMON			COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO			HH	VD	IBS	BC	SCAB RATING <sup>4</sup>	VINE VIGOR <sup>5</sup>	VINE MATURITY <sup>6</sup>	
NY157 <sup>ghkl</sup>	428	479	88	11	81	6	1	1.070	1.0	2	37	1	2	1.1	3.0	2.4	shatter bruise
MSZ219-1 <sup>l</sup>	426	488	87	3	84	3	9	1.068	1.0	0	40	0	0	0.2	4.3	2.5	gc in pickouts
MSW509-5 <sup>ghim</sup>	425	483	88	11	83	5	1	1.068	1.8	0	60	3	0	0.5	3.0	2.5	
W5955-1 <sup>acdeghijn</sup>	423	464	91	7	66	25	2	1.074	1.1	16	42	6	11	0.8	2.6	3.5	tr points, nice round tuber shape
ND7519-1 <sup>bdefghil</sup>	412	466	87	11	81	7	2	1.079	1.1	0	32	10	7	0.9	3.2	2.7	circular, flattened tuber shape
B2869-29 <sup>m</sup>	410	510	80	20	80	0	0	1.077	1.0	0	50	0	0	0.0	3.0	3.0	
NYK27-1 <sup>ghim</sup>	402	453	89	9	80	9	2	1.070	1.0	5	23	0	8	1.0	3.4	2.0	
AF4648-2 <sup>ghikm</sup>	400	439	91	6	74	16	3	1.076	1.1	6	45	1	0	0.7	2.3	3.5	gc in pickouts, heat sprouts
MSV241-2 <sup>il</sup>	395	426	93	6	85	8	1	1.079	1.0	0	27	7	0	1.4	2.0	3.0	
MSM246-B <sup>ghijm</sup>	378	412	92	7	84	8	1	1.078	1.0	0	32	0	0	1.4	2.9	3.5	sl sheepnosing
BNC311-4 <sup>m</sup>	364	495	74	9	74	0	17	1.069	1.0	0	20	0	0	0.0	4.0	2.0	
W6822-3 <sup>ghikl</sup>	358	443	77	23	72	4	1	1.078	1.0	3	43	14	7	1.7	3.7	2.3	small, non uniform tuber type
<b>Pike<sup>aghl</sup></b>	<b>355</b>	<b>396</b>	<b>89</b>	<b>9</b>	<b>85</b>	<b>4</b>	<b>2</b>	<b>1.073</b>	<b>1.3</b>	<b>0</b>	<b>23</b>	<b>7</b>	<b>0</b>	<b>0.5</b>	<b>1.9</b>	<b>3.3</b>	
MSV507-040 <sup>ghil</sup>	352	388	91	3	71	21	5	1.075	1.0	0	34	13	2	1.0	2.5	2.5	heavy eyebrowing, deep apical eye, tr heat sprouts
NDA081453CAB-2C <sup>k</sup>	335	386	82	11	73	8	2	1.078	1.0	0	27	7	3	2.0	5.0	2.5	
NDTX081648CB-13W <sup>ghikl</sup>	314	402	79	17	79	1	4	1.075	1.4	0	33	0	0	1.3	3.3	2.9	small size profile, severe heat sprouts
B2727-2 <sup>bdefghikl</sup>	305	362	83	15	81	3	2	1.077	1.0	3	14	1	0	2.4	2.6	2.1	oblong tuber shape
CO07070-13W <sup>bfghim</sup>	304	382	78	21	77	1	2	1.069	1.0	2	10	2	0	1.7	3.8	1.2	round tuber shape, bright skinned
AF5040-8 <sup>k</sup>	303	376	81	18	77	4	1	1.080	1.0	0	13	7	0	2.7	4.5	4.5	
MSV383-B <sup>cdeghil</sup>	275	362	76	8	67	9	16	1.075	1.1	10	19	2	1	0.5	2.5	2.6	severe gc in pickouts, heavy netted skin
CO07070-10W <sup>odeghikl</sup>	273	358	75	24	74	1	1	1.082	1.1	1	10	1	0	1.8	3.4	1.5	round tuber shape
<b>MEAN</b>	<b>440</b>	<b>498</b>	<b>87</b>	<b>9</b>	<b>77</b>	<b>10</b>	<b>3</b>	<b>1.075</b>	<b>1.1</b>	<b>4</b>	<b>33</b>	<b>5</b>	<b>1</b>	<b>1.0</b>	<b>3.1</b>	<b>2.9</b>	

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

gc=growth crack

**2016 Chip Variety Trial Sites**

<sup>a</sup>4-L Farms; Allegan Co.

<sup>b</sup>Crooks Farms; Set #1; Montcalm Co.

<sup>c</sup>Crooks Farms; Set#2; Montcalm Co.

<sup>d</sup>Crooks Farms; Set#3; Montcalm Co.

<sup>e</sup>Crooks Farms; Set#4; Montcalm Co.

<sup>f</sup>Lennard Ag. Company (Early Trial); St. Joseph Co.

<sup>g</sup>Lennard Ag. Company (Chip Trial); Howe, IN

<sup>h</sup>Main Farms; Montcalm Co.

<sup>i</sup>MSU Box Bin Trial; Montcalm Co.

<sup>j</sup>Sandyland Farms; Set #1; Montcalm Co.

<sup>k</sup>Sandyland Farms; SFA Trial (replicated); Montcalm Co.

<sup>l</sup>Walther Farms (replicated); St. Joseph Co.

<sup>m</sup>Walther Farms (Strip Trial); St. Joseph Co.

<sup>n</sup>Crawford Farms; Montcalm Co.

<sup>1</sup>SIZE

Bs: < 1 7/8"

As: 1 7/8" - 3.25"

OV: > 3.25"

PO: Pickouts

<sup>3</sup>CHIP COLOR SCORE -  
Snack Food Association Scale

(Out of the field)

Ratings: 1 - 5

1: Excellent

5: Poor

<sup>4</sup>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

<sup>2</sup>TUBER QUALITY  
(percentage of tubers)

HH: Hollow Heart

VD: Vascular Discoloration

IBS: Internal Brown Spot

BC: Brown Center

<sup>5</sup>VINE VIGOR RATING

Ratings: 1 - 5

1: Slow Emergence

5: Early Emergence

(vigorous vine, some flowering)

<sup>6</sup>VINE MATURITY RATING

Ratings: 1 - 5

1: Early (vines completely dead)

5: Late (vigorous vine, some flowering)

# 2016 Processing Potato Variety Trial

## 4-L Farms, Allegan County, MI

Harvest 12-Oct-16      154 Days

DD, Base 40<sup>7</sup>      3793

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>					SP GR	CHIP SCORE <sup>3</sup>	RAW TUBER QUALITY <sup>2</sup> (%)				COMMON		VINE MATURETY <sup>6</sup>	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO			HH	VD	IBS	BC	SCAB RATING <sup>4</sup>	VINE VIGOR <sup>5</sup>		
<b>Snowden</b>	<b>556</b>	<b>658</b>	<b>84</b>	<b>15</b>	<b>81</b>	<b>3</b>	<b>0</b>	<b>1.076</b>	<b>1.0</b>	<b>0</b>	<b>70</b>	<b>10</b>	<b>20</b>	<b>0.0</b>	<b>3.0</b>	<b>3.0</b>	
W5955-1	541	577	94	6	55	39	0	1.076	1.0	20	50	0	30	1.5	3.0	4.0	
MSR127-2	528	569	93	7	75	18	0	1.079	1.0	0	40	0	0	1.0	2.5	3.5	
<b>Lamoka</b>	<b>526</b>	<b>573</b>	<b>92</b>	<b>7</b>	<b>84</b>	<b>7</b>	<b>1</b>	<b>1.076</b>	<b>1.0</b>	<b>0</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>0.5</b>	<b>3.5</b>	<b>3.0</b>	
NY152	503	541	93	7	91	2	0	1.072	1.0	0	40	0	0	0.0	2.5	2.5	
MSX540-4	494	534	93	7	83	9	0	1.080	1.0	0	50	0	0	1.0	2.0	3.5	
Manistee	391	443	88	10	88	0	1	1.072	1.0	0	40	0	0	0.0	2.0	2.5	
<b>Pike</b>	<b>334</b>	<b>390</b>	<b>86</b>	<b>9</b>	<b>84</b>	<b>1</b>	<b>5</b>	<b>1.074</b>	<b>1.0</b>	<b>0</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>2.0</b>	<b>3.0</b>	
<b>MEAN</b>	<b>484</b>	<b>536</b>	<b>90</b>	<b>9</b>	<b>80</b>	<b>10</b>	<b>1</b>	<b>1.076</b>	<b>1.0</b>	<b>3</b>	<b>44</b>	<b>1</b>	<b>6</b>	<b>0.5</b>	<b>2.6</b>	<b>3.1</b>	

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

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

<sup>2</sup>TUBER QUALITY  
 (percentage of tubers out of 10)  
 HH: Hollow Heart  
 VD: Vascular Discoloration  
 IBS: Internal Brown Spot  
 BC: Brown Center

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

<sup>5</sup>VINE VIGOR RATING  
 Date: 10-Jun-16  
 Ratings: 1 - 5  
 1: Slow Emergence  
 5: Early Emergence (vigorous  
 vine, some flowering)

<sup>6</sup>VINE MATURITY RATING  
 Date: 19-Aug-16  
 Ratings: 1 - 5  
 1: Early (vines completely  
 dead)  
 5: Late (vigorous vine, some  
 flowering)

Planted: 11-May-16  
 Vines Killed: 14-Sep-16  
 Days from Planting to Vine Kill: 126  
 Seed Spacing: 10"  
 Fumigation: No

<sup>4</sup>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

<sup>7</sup>MAWN STATION: Allegan  
 Planting to Vine Kill

# 2016 "Select" Processing Potato Variety Trial; Set #1 Crooks Farms, Kendaville Rd., Montcalm County, MI

Harvest 31-Aug-16    117 Days

DD, Base 40<sup>7</sup> 2787

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>					SP GR	CHIP SCORE <sup>3</sup>	RAW TUBER QUALITY <sup>2</sup> (%)				COMMON SCAB RATING <sup>4</sup>	VINE VIGOR <sup>5</sup>	VINE MATURITY <sup>6</sup>	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO			HH	VD	IBS	BC				
ND7519-1	304	386	79	21	76	3	0	1.079	1.0	0	60	0	0	2.0	2.5	3.0	flat shape
NC0349-3	285	340	84	16	82	2	0	1.070	1.0	40	90	0	0	4.0	2.0	2.5	
B2727-2	252	343	73	27	73	0	0	1.081	1.0	0	0	0	0	3.5	4.0	2.0	oblong shaped
CO07070-13W	188	316	60	40	60	0	0	1.068	1.0	0	0	10	0	2.5	2.0	1.0	nice round tuber shape, bright white skin
<b>MEAN</b>	<b>258</b>	<b>346</b>	<b>74</b>	<b>26</b>	<b>73</b>	<b>1</b>	<b>0</b>	<b>1.074</b>	<b>1.0</b>	<b>10</b>	<b>38</b>	<b>3</b>	<b>0</b>	<b>3.0</b>	<b>2.6</b>	<b>2.1</b>	tr = trace, sl = slight, N/A = not applicable SED = stem end defect, gc = growth crack

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

<sup>2</sup>TUBER QUALITY  
(percentage of tubers out of 10)  
HH: Hollow Heart  
VD: Vascular Discoloration  
IBS: Internal Brown Spot  
BC: Brown Center

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

<sup>5</sup>VINE VIGOR RATING  
Date Taken: 6-Jun-16  
Ratings: 1 - 5  
1: Slow Emergence  
5: Early Emergence (vigorous vine, some flowering)

<sup>6</sup>VINE MATURITY RATING  
Date Taken: 11-Aug-16  
Ratings: 1 - 5  
1: Early (vines completely dead)  
5: Late (vigorous vine, some flowering)

Planted: 6-May-16  
Vines Killed: 17-Aug-16  
Days from Planting to Vine Kill: 103  
Seed Spacing : 10"  
Fumigation: No

<sup>4</sup> 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

<sup>7</sup>MAWN STATION: Entrican  
Planting to Vine Kill

## 2016 "Select" Processing Potato Variety Trial; Set #2 Crooks Farms, Lake Montcalm Rd., Montcalm County, MI

Harvest 27-Sep-16    138 Days

DD, Base 40<sup>7</sup> 3144

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>						CHIP SCORE <sup>3</sup>	RAW TUBER QUALITY <sup>2</sup> (%)				COMMON SCAB RATING <sup>4</sup>	VINE VIGOR <sup>5</sup>	VINE MATURITY <sup>6</sup>	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR		HH	VD	IBS	BC				
NY153	595	626	95	4	75	20	1	1.078	1.0	10	50	0	0	0.0	2.0	3.0	
MSX540-4	589	616	96	4	83	13	0	1.079	1.0	0	70	0	0	0.0	2.0	3.5	
NY152	523	571	92	8	87	5	0	1.070	1.0	0	40	0	0	0.0	2.0	2.5	
MSW474-1	516	580	89	11	74	15	0	1.071	1.5	0	30	10	0	0.0	3.0	4.0	
ND7519-1	479	515	93	7	74	19	0	1.076	1.0	0	60	0	10	0.5	3.5	1.0	
W5955-1	447	481	93	6	65	28	1	1.069	1.0	0	90	0	0	0.5	3.0	3.0	
MSR127-2	438	508	86	9	66	21	4	1.071	1.0	0	70	0	0	0.0	2.5	5.0	
<b>Snowden</b>	<b>434</b>	<b>475</b>	<b>91</b>	<b>8</b>	<b>83</b>	<b>9</b>	<b>1</b>	<b>1.071</b>	<b>1.5</b>	<b>0</b>	<b>60</b>	<b>0</b>	<b>0</b>	<b>2.0</b>	<b>3.0</b>	<b>2.5</b>	
MSW485-2	369	431	86	14	84	2	0	1.079	1.0	0	70	0	0	0.0	2.5	5.0	
MSV383-B	337	381	89	8	84	5	3	1.075	1.0	30	50	0	0	0.5	2.5	1.0	
B2727-2	235	276	85	15	85	0	0	1.076	1.0	0	50	0	0	2.5	3.0	2.0	
CO07070-10W	163	243	67	31	67	0	2	1.078	1.0	0	20	0	0	1.0	3.5	1.0	
<b>MEAN</b>	<b>427</b>	<b>475</b>	<b>88</b>	<b>10</b>	<b>77</b>	<b>11</b>	<b>1</b>	<b>1.074</b>	<b>1.1</b>	<b>3</b>	<b>55</b>	<b>1</b>	<b>1</b>	<b>0.6</b>	<b>2.7</b>	<b>2.8</b>	

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

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

<sup>2</sup>TUBER QUALITY  
(percentage of tubers out of 10)  
HH: Hollow Heart  
VD: Vascular Discoloration  
IBS: Internal Brown Spot  
BC: Brown Center

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

<sup>5</sup>VINE VIGOR RATING  
Date Taken: 10-Jun-16  
Ratings: 1 - 5  
1: Slow Emergence  
5: Early Emergence (vigorous vine, some flowering)

<sup>6</sup>VINE MATURITY RATING  
Date Taken: 26-Aug-16  
Ratings: 1 - 5  
1: Early (vines completely dead)  
5: Late (vigorous vine, some flowering)

Planted: 12-May-16  
Vines Killed: 31-Aug-16  
Days from Planting to Vine Kill: 111  
Seed Spacing: 10"  
Fumigation: No

<sup>4</sup>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

<sup>7</sup>MAWN STATION: Entrican  
Planting to Vine Kill

## 2016 "Select" Processing Potato Variety Trial; Set #3 Crooks Farms, Musson Rd., Montcalm County, MI

Harvest 5-Oct-16      139 Days

DD, Base 40<sup>7</sup> 3237

LINE	CWT/A		US#1	PERCENT OF TOTAL <sup>1</sup>				SP GR	CHIP SCORE <sup>3</sup>	RAW TUBER QUALITY <sup>2</sup> (%)				COMMON SCAB RATING <sup>4</sup>	VINE VIGOR <sup>5</sup>	VINE MATURITY <sup>6</sup>	COMMENTS
	US#1	TOTAL		Bs	As	OV	PO			HH	VD	IBS	BC				
MSR127-2	718	778	92	6	73	19	2	1.072	2.0	0	40	0	0	1.0	1.5	4.5	pinkeye
MSX540-4	611	627	97	3	77	20	0	1.079	2.5	0	70	0	0	2.0	1.5	3.5	tr pinkeye
NY153	535	560	96	3	68	27	1	1.078	1.0	30	30	0	0	1.0	1.5	2.5	round flattened shape
<b>Lamoka</b>	<b>472</b>	<b>499</b>	<b>95</b>	<b>4</b>	<b>54</b>	<b>41</b>	<b>1</b>	<b>1.071</b>	<b>1.5</b>	<b>0</b>	<b>70</b>	<b>0</b>	<b>0</b>	<b>2.0</b>	<b>2.5</b>	<b>2.5</b>	
MSW485-2	462	508	91	9	80	11	0	1.074	1.0	20	20	0	10	1.0	2.0	4.0	sl alligator hide
W5955-1	408	456	89	6	69	20	4	1.075	2.0	20	30	0	0	0.5	2.0	3.0	nice round tuber shape
MSW474-1	345	425	81	18	75	7	1	1.068	1.5	0	10	0	0	0.5	2.0	4.5	pinkeye, heavy lenticels
CO07070-10W	331	402	82	18	80	2	0	1.074	1.0	0	10	0	0	3.0	3.0	1.0	nice round tuber shape
NY152	325	417	78	22	75	3	0	1.066	1.0	0	60	0	0	1.5	2.0	1.5	
ND7519-1	293	352	83	14	81	2	3	1.074	1.0	0	20	0	0	1.5	2.5	2.0	circular flat tuber shape
B2727-2	274	313	88	12	82	6	0	1.067	1.0	0	0	0	0	4.0	1.5	1.5	oblong shape
MSV383-B	261	288	90	9	85	6	1	1.068	1.0	0	0	0	0	0.5	2.5	4.0	pinkeye, alligator hide, round slightly flattened tuber shape
<b>MEAN</b>	<b>420</b>	<b>469</b>	<b>89</b>	<b>10</b>	<b>75</b>	<b>14</b>	<b>1</b>	<b>1.072</b>	<b>1.4</b>	<b>6</b>	<b>30</b>	<b>0</b>	<b>1</b>	<b>1.5</b>	<b>2.0</b>	<b>2.9</b>	tr = trace, sl = slight, N/A = not applicable SED = stem end defect, gc = growth crack

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

<sup>2</sup>TUBER QUALITY  
(percentage of tubers out of 10)  
HH: Hollow Heart  
VD: Vascular Discoloration  
IBS: Internal Brown Spot  
BC: Brown Center

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

<sup>5</sup>VINE VIGOR RATING  
Date Taken: 15-Jun-16  
Ratings: 1 - 5  
1: Slow Emergence  
5: Early Emergence (vigorous vine, some flowering)

<sup>6</sup>VINE MATURITY RATING  
Date Taken: 22-Aug-16  
Ratings: 1 - 5  
1: Early (vines completely dead)  
5: Late (vigorous vine, some flowering)

Planted: 19-May-16  
Vines Killed: 6-Sep-16  
Days from Planting to Vine Kill: 110  
Seed Spacing: 10"  
Fumigation: No

<sup>4</sup> 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

<sup>7</sup>MAWN STATION: Entrican  
Planting to Vine Kill

## 2016 "Select" Processing Potato Variety Trial; Set #4 Crooks Farms, McBride Rd., Montcalm County, MI

Harvest 17-Oct-16    139 Days

DD, Base 40<sup>7</sup> 3059

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>						CHIP SCORE <sup>3</sup>	RAW TUBER QUALITY <sup>2</sup> (%)				COMMON SCAB RATING <sup>4</sup>	VINE VIGOR <sup>5</sup>	VINE MATURITY <sup>6</sup>	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR		HH	VD	IBS	BC				
MSR127-2	703	766	92	5	75	17	4	1.084	1.0	10	40	0	10	0.0	2.0	5.0	
NY153	566	613	92	8	79	13	0	1.087	1.0	10	40	0	0	2.0	1.5	3.5	
MSX540-4	549	590	93	6	82	11	1	1.088	1.0	0	20	0	0	1.0	1.0	3.5	
<b>Lamoka</b>	<b>532</b>	<b>584</b>	<b>91</b>	<b>8</b>	<b>74</b>	<b>17</b>	<b>1</b>	<b>1.080</b>	<b>1.0</b>	<b>0</b>	<b>50</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>4.5</b>	<b>3.0</b>	<b>pointed pear shaped tubers</b>
MSW485-2	505	567	89	11	83	6	0	1.090	1.0	10	50	0	0	0.0	1.5	5.0	
W5955-1	459	499	92	6	58	34	2	1.084	1.0	80	30	0	0	0.0	1.5	4.5	
NY152	437	501	87	12	86	2	1	1.082	1.0	0	40	0	10	0.5	1.5	3.5	
B2727-2	328	370	88	12	88	0	0	1.086	1.0	0	20	0	0	2.5	1.5	2.0	
MSW474-1	326	410	80	19	76	4	1	1.081	1.0	0	20	0	0	0.5	1.0	4.0	
ND7519-1	321	380	84	16	81	3	0	1.089	1.0	0	60	10	0	0.5	2.5	3.0	
MSV383-B	315	394	80	11	71	9	9	1.083	1.0	0	30	0	10	0.0	1.5	4.0	growth cracks, knobbing
CO07070-10W	205	314	65	34	63	2	1	1.092	1.0	0	0	0	0	0.0	3.0	1.5	
<b>MEAN</b>	<b>437</b>	<b>499</b>	<b>86</b>	<b>12</b>	<b>76</b>	<b>10</b>	<b>2</b>	<b>1.085</b>	<b>1.0</b>	<b>9</b>	<b>33</b>	<b>1</b>	<b>3</b>	<b>0.6</b>	<b>1.9</b>	<b>3.5</b>	tr = trace, sl = slight, N/A = not applicable SED = stem end defect, gc = growth crack

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

<sup>2</sup>TUBER QUALITY  
(percentage of tubers out of 10)  
HH: Hollow Heart  
VD: Vascular Discoloration  
IBS: Internal Brown Spot  
BC: Brown Center

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

<sup>5</sup>VINE VIGOR RATING  
Date Taken: 24-Jun-16  
Ratings: 1 - 5  
1: Slow Emergence  
5: Early Emergence (vigorous vine, some flowering)

<sup>6</sup>VINE MATURITY RATING  
Date Taken: 26-Aug-16  
Ratings: 1 - 5  
1: Early (vines completely dead)  
5: Late (vigorous vine, some flowering)

Planted: 31-May-16  
Vines Killed: 10-Sep-16  
Days from Planting to Vine Kill: 102  
Seed Spacing: 10"  
Fumigation: No

<sup>4</sup>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

<sup>7</sup>MAWN STATION: Entrican  
Planting to Vine Kill



# 2016 Chip Processing Potato Variety Trial

## Crawford Farms, Montcalm County, MI

Harvest 19-Oct-16 148 Days  
DD, Base 40<sup>7</sup> 3242

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>						RAW TUBER QUALITY <sup>2</sup> (%)				COMMON	VINE	VINE	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR	HH	VD	IBS	BC	SCAB RATING <sup>3</sup>	VIGOR <sup>4</sup>	MATURITY <sup>5</sup>	
MSR127-2	473	496	95	4	95	1	0	1.081	0	10	0	0	0.0	2.5	4.5	
<b>Snowden</b>	<b>468</b>	<b>541</b>	<b>86</b>	<b>14</b>	<b>83</b>	<b>3</b>	<b>0</b>	<b>1.079</b>	<b>0</b>	<b>40</b>	<b>0</b>	<b>0</b>	<b>2.0</b>	<b>3.5</b>	<b>3.5</b>	
NY152	463	633	73	27	73	0	0	1.074	0	80	0	0	0.0	3.0	3.5	
W5955-1	248	273	91	5	63	28	4	1.070	10	60	0	0	2.0	2.0	3.5	
<b>MEAN</b>	<b>413</b>	<b>486</b>	<b>86</b>	<b>12</b>	<b>79</b>	<b>8</b>	<b>1</b>	<b>1.076</b>	<b>3</b>	<b>48</b>	<b>0</b>	<b>0</b>	<b>1.0</b>	<b>2.8</b>	<b>3.8</b>	

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

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

<sup>2</sup>TUBER QUALITY  
(percentage of tubers out of 10)  
HH: Hollow Heart  
VD: Vascular Discoloration  
IBS: Internal Brown Spot  
BC: Brown Center

<sup>4</sup>VINE VIGOR RATING  
Date: 22-Jun-16  
Ratings: 1 - 5  
1: Slow Emergence  
5: Early Emergence (vigorous vine, some flowering)

<sup>5</sup>VINE MATURITY RATING  
Date: 26-Aug-16  
Ratings: 1 - 5  
1: Early (vines completely dead)  
5: Late (vigorous vine, some flowering)

Planted: 24-May-16  
Vines Killed: 9-Sep-16  
Days from Planting to Vine Kill: 108  
Seed Spacing: 10"  
Fumigation: No  
<sup>7</sup>MAWN STATION: Entrican  
Planting to Vine Kill

<sup>3</sup>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

# 2016 Processing Potato Variety Trial Lennard Ag. Co., Howe, IN

Harvest 26-Sep-16 140 Days

DD, Base 40<sup>7</sup> 3412

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>						SP GR	CHIP SCORE <sup>3</sup>	RAW TUBER QUALITY <sup>2</sup> (%)				COMMON			COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	HH			VD	IBS	BC	SCAB RATING <sup>4</sup>	VINE VIGOR <sup>5</sup>	VINE MATURITY <sup>6</sup>		
W8822-1	778	816	95	3	89	6	1	1.078	1.0	0	50	10	10	0.0	3.0	3.0	heavily russeted skin, yellowed fresh color	
MSX540-4	691	762	91	6	88	3	3	1.078	1.0	0	30	0	0	2.0	2.5	3.5		
NY153	679	734	92	3	81	12	4	1.079	1.0	40	60	0	0	1.5	3.0	4.0		
MSW485-2	678	714	95	5	91	4	0	1.080	1.0	20	70	10	0	1.0	3.5	4.0	nice overall tuber appearance	
NYL7-2	665	705	94	2	82	12	3	1.078	1.0	0	50	0	0	1.0	3.0	2.5		
<b>Snowden</b>	<b>647</b>	<b>692</b>	<b>93</b>	<b>5</b>	<b>89</b>	<b>5</b>	<b>2</b>	<b>1.078</b>	<b>1.0</b>	<b>0</b>	<b>50</b>	<b>0</b>	<b>0</b>	<b>2.5</b>	<b>3.0</b>	<b>3.5</b>		
NC0349-3	643	718	90	8	70	20	2	1.048	1.5	80	90	0	0	5.0	2.5	2.5	severe scab	
NY152	624	716	87	11	86	2	2	1.070	1.5	0	20	0	0	2.0	2.5	4.0		
MSV301-2	623	655	95	4	83	12	1	1.076	1.0	0	60	0	0	0.5	3.5	2.0	trace sheep nosing	
Manistee	606	638	95	3	78	17	2	1.076	1.0	0	50	0	0	2.5	2.5	2.5		
NY162	592	641	92	5	73	20	3	1.078	1.0	0	60	0	0	2.0	2.5	2.0		
NY157	583	612	95	4	85	10	1	1.071	1.0	10	70	0	10	2.0	2.5	2.0		
NYL1-7	575	597	96	3	95	1	1	1.074	1.5	0	40	0	0	1.0	4.0	1.5		
MSV033-1	571	744	77	5	52	25	18	1.071	1.0	0	80	0	0	2.0	2.5	3.5	knobbed pickouts	
W6822-3	570	644	89	10	84	5	1	1.075	1.0	10	60	50	30	3.0	3.5	2.0		
MSR127-2	569	618	92	4	74	18	4	1.073	2.0	0	50	0	0	0.5	2.0	4.0		
W5955-1	539	563	96	3	67	29	1	1.074	1.0	10	40	10	30	1.0	3.0	4.0		
<b>Lamoka</b>	<b>517</b>	<b>573</b>	<b>90</b>	<b>6</b>	<b>87</b>	<b>3</b>	<b>4</b>	<b>1.076</b>	<b>1.0</b>	<b>0</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>0.5</b>	<b>2.5</b>	<b>3.0</b>		
MSV358-3	514	572	90	8	89	1	2	1.071	1.5	0	20	0	0	0.0	3.0	2.0	dark buff skin	
AF4648-2	443	491	90	6	72	18	4	1.073	1.0	0	70	0	0	0.5	2.0	3.0		
MSW509-5	435	514	85	14	80	5	1	1.070	3.0	0	90	10	0	1.0	3.0	3.0	excellent size profile	
CO07070-13W	432	483	89	9	89	0	2	1.068	1.0	10	30	0	0	3.0	3.5	1.0		
MSV507-040	393	414	95	2	65	30	3	1.079	1.0	0	60	30	0	1.5	2.5	3.5	lumpy shape, heavy eyebrow	
<b>Pike</b>	<b>389</b>	<b>416</b>	<b>94</b>	<b>5</b>	<b>84</b>	<b>10</b>	<b>1</b>	<b>1.075</b>	<b>1.0</b>	<b>0</b>	<b>40</b>	<b>20</b>	<b>0</b>	<b>1.5</b>	<b>1.0</b>	<b>4.0</b>		
MSW474-1	385	516	75	22	72	3	4	1.067	1.0	0	20	0	0	1.5	3.0	4.0	slight sheep nosing	
MSM246-B	384	400	96	4	84	12	0	1.075	1.0	0	50	0	0	2.5	2.5	4.0		
ND7519-1	376	404	93	6	90	4	1	1.074	1.0	0	30	20	0	1.5	3.5	4.0		
NYK27-1	365	403	91	9	79	11	1	1.068	1.0	20	40	0	0	3.5	3.0	2.0		
B2727-2	303	378	80	8	76	4	11	1.072	1.0	20	20	0	0	3.0	2.0	3.0	rot noted in plot, sl tubular shape	
NDTX081648CB-13W	295	397	74	25	74	0	1	1.066	1.5	0	40	0	0	3.0	2.5	3.5		
CO07070-10W	295	377	78	19	78	0	3	1.078	1.5	10	20	0	0	3.5	2.5	2.0		
MSV383-B	191	323	59	8	30	29	32	1.069	1.5	40	10	10	0	0.5	2.0	2.5		
<b>MEAN</b>	<b>511</b>	<b>570</b>	<b>89</b>	<b>7</b>	<b>79</b>	<b>10</b>	<b>4</b>	<b>1.073</b>	<b>1.2</b>	<b>8</b>	<b>47</b>	<b>5</b>	<b>3</b>	<b>1.8</b>	<b>2.7</b>	<b>3.0</b>	tr = trace, sl = slight, NA = not available SED = stem end defect, gc = growth crack	

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

<sup>2</sup>TUBER QUALITY  
(percentage of tubers out of 10)  
HH: Hollow Heart  
VD: Vascular Discoloration  
IBS: Internal Brown Spot  
BC: Brown Center

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

<sup>4</sup>VINE VIGOR RATING  
Date: 7-Jun-16  
Ratings: 1 - 5  
1: Slow Emergence  
5: Early Emergence (vigorous vine, some flowering)

<sup>5</sup>VINE MATURITY RATING  
Date: 19-Aug-16  
Ratings: 1 - 5  
1: Early (vines completely dead)  
5: Late (vigorous vine, some flowering)

Planted: 9-May-16  
Vines Killed: 29-Aug-16  
Days from Planting to Vine Kill: 112  
Seed Spacing: 10"  
Fumigation: No

<sup>4</sup>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

<sup>7</sup>MAWN STATION: Constantine  
Planting to Vine Kill

# 2016 Potato Processing On-Farm Trial Lennard Ag. Co., St. Joseph County, MI

Harvest 30-Aug-16      132 Days

DD, Base 40<sup>7</sup>      3711

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>						CHIP SCORE <sup>3</sup>	RAW TUBER QUALITY <sup>2</sup> (%)				COMMON			COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR		HH	VD	IBS	BC	SCAB RATING <sup>4</sup>	VINE VIGOR <sup>5</sup>	VINE MATURITY <sup>6</sup>	
NC0349-3	759	780	97	2	54	43	1	1.075	1.0	80	40	0	0	0.0	3.0	3.5	slightly flattened shape
<b>Atlantic</b>	<b>658</b>	<b>734</b>	<b>90</b>	<b>3</b>	<b>63</b>	<b>27</b>	<b>7</b>	<b>1.086</b>	<b>1.0</b>	<b>30</b>	<b>0</b>	<b>60</b>	<b>0</b>	<b>0.0</b>	<b>3.0</b>	<b>3.0</b>	<b>misshapen tubers and pickouts</b>
ND7519-1	576	603	95	5	79	17	0	1.086	1.0	0	0	40	0	0.0	3.0	4.0	slightly flattened shape
B2727-2	490	516	95	3	87	8	2	1.087	1.0	10	0	0	0	0.0	2.0	2.0	oblonged tuber shape
CO07070-13W	421	512	82	11	80	2	6	1.073	1.0	0	0	0	0	0.0	4.0	1.5	nice round shape, growth cracks in pickouts
<b>MEAN</b>	<b>581</b>	<b>629</b>	<b>92</b>	<b>5</b>	<b>73</b>	<b>19</b>	<b>3</b>	<b>1.081</b>	<b>1.0</b>	<b>24</b>	<b>8</b>	<b>20</b>	<b>0</b>	<b>0.0</b>	<b>3.0</b>	<b>2.8</b>	

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

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

<sup>2</sup>TUBER QUALITY  
(percentage of tubers out of 10)  
HH: Hollow Heart  
VD: Vascular Discoloration  
IBS: Internal Brown Spot  
BC: Brown Center

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

<sup>5</sup>VINE VIGOR RATING  
Date: 2-Jun-16  
Ratings: 1 - 5  
1: Slow Emergence  
5: Early Emergence (vigorous vine, some flowering)

<sup>6</sup>VINE MATURITY RATING  
Date: 12-Aug-16  
Ratings: 1 - 5  
1: Early (vines completely dead)  
5: Late (vigorous vine, some flowering)

Planted: 20-Apr-16  
Vines Killed: 30-Aug-16  
Days from Planting to Vine Kill: 132  
Seed Spacing: 10"  
Fumigation: NA

<sup>4</sup>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

<sup>7</sup>MAWN STATION: Constantine  
Planting to Vine Kill

**2016 Processing Potato Variety Trial**  
**Main Farms, Montcalm Co., MI**  
Harvest 12-Sep-16 118 Days  
DD, Base 40<sup>7</sup> 2922

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>				SP GR	CHIP SCORE <sup>3</sup>	RAW TUBER QUALITY <sup>2</sup> (%)				COMMON SCAB RATING <sup>4</sup>		VINE VIGOR <sup>5</sup>	VINE MATURITY <sup>6</sup>	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV			PO	HH	VD	IBS	BC	RATING <sup>4</sup>			
NY152	670	702	95	4	94	1	0	1.070	1.0	0	10	0	0	1.5	2.5	4.0	
MSV033-1	587	608	97	2	78	18	1	1.065	1.0	0	20	0	0	3.0	1.5	4.0	
ND7519-1	578	599	96	4	88	8	0	1.081	1.5	0	20	0	50	2.0	3.0	2.5	
MSW485-2	571	613	93	7	83	11	0	1.075	1.0	0	20	0	20	1.0	2.5	4.0	
NY153	557	579	96	4	78	18	0	1.082	1.0	0	20	0	0	1.0	2.5	3.0	
NYL1-7	526	551	95	5	85	10	0	1.068	1.0	0	10	0	0	2.0	3.5	2.5	
NYL7-2	525	553	95	4	94	1	1	1.074	1.0	0	20	0	0	2.0	2.0	1.5	light smooth skin, round tuber type
MSX540-4	501	513	98	1	87	11	1	1.077	1.0	0	40	0	0	0.0	1.5	4.0	
W8822-1	497	528	94	5	92	2	0	1.075	1.0	0	20	0	0	0.0	2.5	2.0	heavy netted skin
NY162	491	507	97	2	92	5	1	1.075	1.0	0	20	0	0	0.5	2.0	3.0	
MSW474-1	486	526	92	5	79	13	2	1.067	1.0	0	10	0	0	0.5	2.5	3.5	netted skin
MSV358-3	446	491	91	9	90	1	1	1.081	1.0	0	0	0	0	0.0	2.5	3.0	
NC0349-3	437	487	90	9	81	8	2	1.068	1.0	60	30	0	0	3.5	2.0	2.0	
Manistee	433	474	91	9	91	0	0	1.071	1.0	0	20	0	0	2.5	1.5	1.5	flattened shape
MSV301-2	428	470	91	8	88	3	1	1.074	1.0	0	0	0	0	1.0	2.0	3.0	round tuber shape
NYK27-1	421	447	94	6	88	6	0	1.068	1.0	0	30	0	20	0.5	3.5	1.5	
MSW509-5	417	443	94	6	85	9	0	1.064	1.0	0	10	0	0	0.5	2.0	2.0	
<b>Lamoka</b>	<b>407</b>	<b>449</b>	<b>91</b>	<b>5</b>	<b>86</b>	<b>5</b>	<b>4</b>	<b>1.073</b>	<b>1.5</b>	<b>0</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>0.5</b>	<b>2.0</b>	<b>2.5</b>	
CO07070-10W	400	446	90	9	90	0	2	1.083	1.0	0	0	0	0	3.0	2.0	2.0	uniform round tuber shape
W5955-1	357	391	91	8	75	16	0	1.066	1.0	0	30	0	20	1.0	2.0	3.5	
<b>Snowden</b>	<b>342</b>	<b>395</b>	<b>86</b>	<b>14</b>	<b>86</b>	<b>0</b>	<b>0</b>	<b>1.075</b>	<b>1.0</b>	<b>0</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>2.0</b>	<b>1.5</b>	<b>3.5</b>	
NY157	329	363	91	9	87	4	0	1.063	1.0	0	10	0	0	1.0	2.5	2.5	
MSV507-040	323	331	97	3	88	10	0	1.075	1.0	0	0	0	0	0.5	2.0	2.0	
AF4648-2	316	362	87	5	87	0	8	1.077	1.0	0	10	0	0	0.5	1.0	3.5	gc in pickouts
MSR127-2	315	352	89	9	88	1	2	1.065	1.0	0	10	0	0	1.0	1.5	4.0	
MSM246-B	315	335	94	6	94	0	0	1.077	1.0	0	20	0	0	0.5	1.5	4.0	sl sheepnosing observed
W6822-3	314	399	79	21	77	2	0	1.076	1.0	0	20	0	0	2.5	3.0	1.5	
B2727-2	300	341	88	12	88	0	0	1.070	1.0	0	0	0	0	3.5	2.5	2.0	
<b>Pike</b>	<b>278</b>	<b>320</b>	<b>87</b>	<b>13</b>	<b>87</b>	<b>0</b>	<b>1</b>	<b>1.072</b>	<b>1.5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.5</b>	<b>1.5</b>	<b>3.5</b>	
NDTX081648CB-13W	272	316	86	13	86	0	1	1.073	1.5	0	30	0	0	0.5	2.0	3.0	
MSV383-B	245	332	74	4	74	0	22	1.074	1.0	0	20	0	0	1.0	2.0	2.0	severe gc in pickouts, heavy netted skin
CO07070-13W	163	233	70	28	68	2	1	1.067	1.0	0	10	0	0	3.0	3.5	1.0	
<b>MEAN</b>	<b>414</b>	<b>452</b>	<b>91</b>	<b>8</b>	<b>85</b>	<b>5</b>	<b>2</b>	<b>1.073</b>	<b>1.1</b>	<b>2</b>	<b>16</b>	<b>0</b>	<b>3</b>	<b>1.3</b>	<b>2.2</b>	<b>2.7</b>	tr = trace, sl = slight, NA = not available SED = stem end defect, gc = growth crack

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

<sup>2</sup>TUBER QUALITY  
(percentage of tubers out of 10)  
HH: Hollow Heart  
VD: Vascular Discoloration  
IBS: Internal Brown Spot  
BC: Brown Center

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

<sup>5</sup>VINE VIGOR RATING  
Date: 15-Jun-16  
Ratings: 1 - 5  
1: Slow Emergence  
5: Early Emergence (vigorous vine, some flowering)

<sup>6</sup>VINE MATURITY RATING  
Date: 26-Aug-16  
Ratings: 1 - 5  
1: Early (vines completely dead)  
5: Late (vigorous vine, some flowering)

Planted: 17-May-16  
Vines Killed: 26-Aug-16  
Days from Planting to Vine Kill: 101  
Seed Spacing: 10"  
Fumigation: No

<sup>4</sup>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

<sup>7</sup>MAWN STATION: Entrican  
Planting to Vine Kill

# 2016 MPIC Box Bin Processing Potato Variety Trial

## MSU Montcalm Research Center, Montcalm County, MI

Harvest date **30-Sep-16** 150 Days

**DD, Base 40<sup>8</sup>** **3537**

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>						CHIP SCORE <sup>3</sup>	RAW TUBER QUALITY (%) <sup>2</sup>				COMMON			COMMENTS <sup>7</sup>
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR		HH	VD	IBS	BC	SCAB RATING <sup>4</sup>	VINE VIGOR <sup>5</sup>	VINE MATURITY <sup>6</sup>	
TX09396-1W	618	659	94	3	63	31	3	1.081	1.0	0	60	20	0	2.0	3.0	4.0	Sticky stolons
MSR127-2	606	641	94	5	88	6	1	1.076	1.0	0	60	0	0	2.0	3.0	4.0	
<b>Snowden</b>	<b>510</b>	<b>596</b>	<b>85</b>	<b>14</b>	<b>76</b>	<b>9</b>	<b>1</b>	<b>1.073</b>	<b>1.0</b>	<b>10</b>	<b>40</b>	<b>10</b>	<b>0</b>	<b>2.5</b>	<b>3.0</b>	<b>3.0</b>	
W8822-1	480	539	89	9	84	5	2	1.081	1.5	0	10	0	0	0.0	3.5	2.5	Heavy dark russet skin type and light yellow flesh
MSX540-4	478	539	89	9	82	7	2	1.081	1.0	0	40	10	0	0.0	3.0	4.0	
MSV313-2 (Low N)	472	532	89	9	89	0	2	1.073	1.0	0	40	0	0	1.0	2.0	3.5	
MSW474-1	459	566	81	18	77	4	1	1.075	1.0	0	10	0	0	0.5	3.0	3.5	Deep apical eye
Manistee	457	491	93	6	76	17	1	1.072	1.0	0	20	0	0	2.0	2.5	2.0	Flat apical stem end tuber type, netted skin
AF4648-2	457	480	95	4	74	21	1	1.076	1.0	30	60	0	0	1.5	3.0	3.0	
MSW485-2	452	544	83	17	82	1	0	1.088	1.0	0	20	0	0	0.5	3.5	3.0	Tr sticky stolons
MSV033-1	447	505	88	7	63	25	5	1.073	1.0	0	40	0	0	1.5	4.0	3.0	Growth cracking, sticky stolons, nice chip color
NY154	444	497	89	7	72	17	4	1.076	1.0	0	50	0	0	0.0	3.5	3.5	
NYL1-7	436	483	90	9	89	1	1	1.067	1.0	0	40	0	0	1.5	3.5	1.5	
MSW509-5	423	483	87	11	81	6	2	1.074	2.0	0	50	0	0	0.5	4.0	2.5	
MSV358-3	403	493	82	16	82	0	2	1.073	1.0	0	10	0	0	0.5	2.5	1.5	Uniform tuber type, moderate netted skin
NY153	398	462	86	13	82	4	1	1.081	1.0	0	20	0	0	2.0	3.0	2.5	
<b>Lamoka</b>	<b>378</b>	<b>447</b>	<b>85</b>	<b>11</b>	<b>76</b>	<b>9</b>	<b>4</b>	<b>1.075</b>	<b>1.0</b>	<b>0</b>	<b>70</b>	<b>0</b>	<b>0</b>	<b>0.5</b>	<b>3.0</b>	<b>2.5</b>	<b>Flat oval tuber type</b>
MSM246-B	366	403	91	9	82	9	0	1.080	1.0	0	20	0	0	2.0	3.0	3.0	
NCO349-3	360	415	87	13	75	12	0	1.071	1.0	40	70	0	0	2.0	2.0	3.0	
NDTX081648CB-13W	359	427	84	14	83	1	2	1.085	1.5	0	30	0	0	1.0	4.0	2.5	
NYK27-1	358	431	83	16	68	15	1	1.072	1.0	0	20	0	10	0.0	2.5	2.5	Severe shatter bruising, tr black spot bruise
MSV301-2	353	408	87	12	84	3	1	1.066	1.0	0	0	0	0	0.0	3.5	1.5	
Snowden (Low N)	352	399	89	10	85	4	1	1.072	1.0	0	40	0	0	2.0	2.5	3.0	Tr pinkeye, deep apical eye

Continued on next page

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>					SP GR	CHIP SCORE <sup>3</sup>	RAW TUBER QUALITY (%) <sup>2</sup>				SCAB RATING <sup>4</sup>	VINE VIGOR <sup>5</sup>	VINE MATURITY <sup>6</sup>	COMMENTS <sup>7</sup>
	US#1	TOTAL	US#1	Bs	As	OV	PO			HH	VD	IBS	BC				
W5955-1	339	391	87	11	76	11	2	1.072	1.0	0	50	0	30	0.0	3.0	3.0	Excellent chip color and quality
MSV313-2	336	350	96	3	44	52	1	1.068	1.0	0	10	0	0	0.5	2.5	3.0	
ND7519-1	332	438	76	22	75	1	2	1.079	1.0	0	10	20	0	0.5	4.0	2.0	Small uniform tuber type
NY162	319	377	85	13	80	5	2	1.067	1.0	0	10	0	0	2.0	2.0	3.0	
MSV507-040	315	344	92	2	64	28	6	1.073	1.0	0	40	0	0	1.5	2.0	2.0	Deep apical eyes
MSV241-2	303	330	92	6	87	5	2	1.083	1.0	0	10	10	0	1.5	1.5	3.0	
NYL7-2	269	296	91	7	62	29	2	1.067	1.0	0	10	0	0	0.5	3.0	2.5	Growth cracking
CO07070-13W	241	322	75	24	75	0	1	1.075	1.0	0	0	0	0	0.0	4.5	1.0	Small overall tuber type
NY152	240	391	61	39	61	0	0	1.078	1.0	0	10	0	0	1.0	3.5	2.0	Small overall tuber type
MSV383-B	234	318	74	11	67	7	15	1.074	1.0	0	0	0	0	1.0	3.0	2.0	Severe growth cracking and mishapened tubers
CO07070-10W	199	301	66	34	66	0	0	1.083	1.0	0	0	0	0	1.5	3.5	1.0	
NY157	195	266	73	26	66	7	1	1.070	1.0	0	30	0	0	0.5	3.5	3.0	Severe shatter bruise
B2727-2	175	276	63	37	63	0	0	1.077	1.0	0	20	0	0	1.0	3.0	2.0	
W6822-3	162	292	56	44	56	0	0	1.081	1.0	0	40	0	0	1.0	4.0	2.0	Small overall tuber type
<b>MEAN</b>	<b>371</b>	<b>436</b>	<b>84</b>	<b>14</b>	<b>74</b>	<b>10</b>	<b>2</b>	<b>1.075</b>	<b>1.1</b>	<b>2</b>	<b>29</b>	<b>2</b>	<b>1</b>	<b>1.0</b>	<b>3.1</b>	<b>2.6</b>	tr = trace, sl = slight, NA = not available SED = stem end defect, gc = growth crack

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

<sup>2</sup>TUBER QUALITY  
(percentage of tubers out of 10)  
HH: Hollow Heart  
VD: Vascular Discoloration  
IBS: Internal Brown Spot  
BC: Brown Center

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

<sup>5</sup>VINE VIGOR RATING  
Date: 10-Jun-16  
Ratings: 1 - 5  
1: Slow Emergence  
5: Early Emergence  
(vigorous vine, some flowering)

<sup>6</sup>VINE MATURITY RATING  
Date: 24-Aug-16  
Ratings: 1 - 5  
1: Early (vines completely dead)  
5: Late (vigorous vine, some flowering)

Planted: 3-May-16  
Vines Killed: 9-Sep-16  
Days from Planting to Vine Kill: 129  
Seed Spacing: 10"  
Fumigation: No

<sup>4</sup>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

<sup>7</sup>ALLIGATOR 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

<sup>8</sup>MAWN STATION: Entrican  
Planting to Vine Kill

# 2016 Processing Potato Variety Trial

## Sandyland Farms, Montcalm County, MI

Harvest 13-Oct-16 146 Days  
DD, Base 40<sup>7</sup> 2757

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>					SP GR	CHIP SCORE <sup>3</sup>	RAW TUBER QUALITY <sup>2</sup> (%)				COMMON SCAB RATING <sup>4</sup>	VINE VIGOR <sup>5</sup>	VINE MATURITY <sup>6</sup>	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO			HH	VD	IBS	BC				
NY152	464	576	81	18	78	3	2	1.074	1.0	0	20	0	0	0.5	4.0	3.5	
MSR127-2	425	478	89	9	67	22	2	1.080	1.0	0	0	0	0	1.0	3.0	4.0	
W5955-1	409	457	90	9	63	27	2	1.082	1.0	20	30	10	0	0.5	3.0	4.0	tr points
MSX540-4	391	441	89	9	81	8	3	1.084	1.0	0	10	0	0	2.0	4.0	3.0	
<b>Snowden</b>	<b>387</b>	<b>472</b>	<b>82</b>	<b>17</b>	<b>77</b>	<b>5</b>	<b>1</b>	<b>1.082</b>	<b>1.0</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>2.0</b>	<b>3.5</b>	<b>3.0</b>	
MSM246-B	357	400	89	11	82	7	0	1.086	1.0	0	10	0	0	2.0	3.5	3.5	
<b>MEAN</b>	<b>405</b>	<b>471</b>	<b>86</b>	<b>12</b>	<b>75</b>	<b>12</b>	<b>1</b>	<b>1.081</b>	<b>1.0</b>	<b>3</b>	<b>13</b>	<b>2</b>	<b>0</b>	<b>1.3</b>	<b>3.5</b>	<b>3.5</b>	tr = trace, sl = slight, NA = not available

SED = stem end defect, gc = growth crack

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

<sup>2</sup>TUBER QUALITY  
(percentage of tubers out of 10)  
HH: Hollow Heart  
VD: Vascular Discoloration  
IBS: Internal Brown Spot  
BC: Brown Center

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

<sup>5</sup>VINE VIGOR RATING  
Date: 22-Jun-16  
Ratings: 1 - 5  
1: Slow Emergence  
5: Early Emergence (vigorous vine, some flowering)

<sup>6</sup>VINE MATURITY RATING  
Date: 26-Aug-16  
Ratings: 1 - 5  
1: Early (vines completely dead)  
5: Late (vigorous vine, some flowering)

Planted: 20-May-16  
Vines Killed: 22-Aug-16  
Days from Planting to Vine Kill: 94  
Seed Spacing: 12"  
Fumigation: Yes

<sup>4</sup>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

<sup>7</sup>MAWN STATION: Entrican  
Planting to Vine Kill

# 2016 Potatoes USA/SNAC International Processing Potato Variety Trial Sandyland Farms, Montcalm County, MI

Harvest 13-Oct-16 146 Days  
DD, Base 40<sup>7</sup> 2757

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>				SP GR	CHIP SCORE <sup>2</sup>	RAW TUBER QUALITY <sup>3</sup> (%)				COMMON			COMMENTS	
	US#1	TOTAL	US#1	Bs	As	OV			PO	HH	VD	IBS	BC	SCAB RATING <sup>4</sup>	VINE VIGOR <sup>5</sup>		VINE MATURITY <sup>6</sup>
NY152	578	664	87	12	85	3	1	1.076	1.0	0	23	7	0	2.0	4.0	3.0	
MSR127-2	543	600	90	8	76	14	1	1.082	1.0	0	47	0	0	1.2	3.5	4.5	
W8822-1	515	583	88	11	84	5	1	1.084	1.0	0	43	0	0	2.0	3.5	3.0	alligator hide, cream colored flesh
NY157	504	560	90	9	83	7	1	1.079	1.0	0	47	3	0	2.0	3.0	2.0	
MSW485-2	483	575	84	15	83	1	1	1.086	1.0	7	40	3	0	2.0	4.0	5.0	
<b>Lamoka</b>	<b>441</b>	<b>489</b>	<b>90</b>	<b>9</b>	<b>85</b>	<b>5</b>	<b>1</b>	<b>1.081</b>	<b>1.0</b>	<b>0</b>	<b>30</b>	<b>7</b>	<b>0</b>	<b>2.0</b>	<b>4.0</b>	<b>4.5</b>	flat pointed tuber type
<b>Snowden</b>	<b>438</b>	<b>524</b>	<b>83</b>	<b>16</b>	<b>81</b>	<b>3</b>	<b>1</b>	<b>1.086</b>	<b>1.0</b>	<b>7</b>	<b>43</b>	<b>0</b>	<b>0</b>	<b>2.0</b>	<b>4.5</b>	<b>3.5</b>	
NC0349-3	420	472	89	11	80	9	0	1.072	1.5	60	83	0	0	2.5	4.0	2.5	
TX09396-1W	407	437	93	6	67	26	1	1.080	1.0	7	27	3	0	1.8	3.0	4.0	
CO07070-10W	368	468	79	21	77	1	1	1.088	1.5	0	27	7	0	2.3	5.0	1.5	
NDA081453CAB-2C	335	386	82	11	73	8	2	1.078	1.0	0	27	7	3	2.0	5.0	2.5	
B2727-2	304	352	86	13	81	5	1	1.079	1.0	3	13	13	0	3.0	3.5	2.0	oval tuber type
AF5040-8	303	376	81	18	77	4	1	1.080	1.0	0	13	7	0	2.7	4.5	4.5	
AF4648-2	301	347	87	11	73	14	2	1.075	1.0	0	33	3	0	0.8	3.0	4.5	
NDTX081648CB-13W	287	359	80	20	79	1	1	1.084	1.5	0	20	0	0	2.2	4.0	3.0	small size profile
W6822-3	198	295	67	32	66	1	1	1.082	1.0	3	50	3	3	2.0	4.0	3.5	
<b>MEAN</b>	<b>402</b>	<b>468</b>	<b>85</b>	<b>11</b>	<b>78</b>	<b>7</b>	<b>5</b>	<b>1.081</b>	<b>1.1</b>	<b>5</b>	<b>35</b>	<b>4</b>	<b>0</b>	<b>2.0</b>	<b>3.9</b>	<b>3.3</b>	tr = trace, sl = slight, NA = not available
<b>ANOVA P-Value</b>	<b>&lt;0.0001</b>	<b>&lt;0.0001</b>	<b>&lt;0.0001</b>	<b>&lt;0.0001</b>	<b>&lt;0.0001</b>	<b>&lt;0.0001</b>	0.495	<b>&lt;0.0001</b>	-	<b>&lt;0.0001</b>	<b>&lt;0.0001</b>	0.67	0.57	-	-	-	SED = stem end defect, gc = growth crack
<b>LSD</b>	<b>58</b>	<b>57</b>	<b>4.9</b>	<b>3.7</b>	<b>5.4</b>	<b>4.5</b>	-	<b>0.002</b>	-	<b>7.8</b>	<b>21.2</b>	-	-	-	-	-	

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

<sup>3</sup>TUBER QUALITY  
(percentage of tubers out of 10 per rep)  
HH: Hollow Heart  
VD: Vascular Discoloration  
IBS: Internal Brown Spot  
BC: Brown Center

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

<sup>5</sup>VINE VIGOR RATING  
Date Taken: 22-Jun-16  
Ratings: 1 - 5  
1: Slow Emergence  
5: Early Emergence (vigorous  
some flowering)

<sup>6</sup>VINE MATURITY RATING  
Date Taken: 26-Aug-16  
Ratings: 1 - 5  
1: Early (vines completely dead)  
5: Late (vigorous vine, some  
flowering)

Planted: 20-May-16  
Vines Killed: 22-Aug-16  
Days from Planting to Vine Kill: 94  
Seed Spacing: 10"  
Fall Fumigation  
Yes

<sup>7</sup>MAWN STATION: Entrican  
Planting to Vine Kill

<sup>4</sup>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

Data presented represents averages of three replications



# 2016 Strip Chip Processing Potato Variety Trial

## Walther Farms, St. Joseph County, MI

Harvest 13-Sep-16 139 Days  
DD, Base 40<sup>7</sup> 3621

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>					SP GR*	CHIP SCORE <sup>3a</sup>	RAW TUBER QUALITY <sup>2</sup> (%)				COMMON SCAB RATING <sup>4</sup>	VINE VIGOR <sup>5</sup>	VINE MATURITY <sup>6</sup>	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO			HH	VD	IBS	BC				
B2904-2	585	619	94	6	92	3	0	1.073	1.0	0	40	0	0	1.0	4.0	4.0	
NY162	533	589	90	3	84	7	7	1.071	1.0	0	50	10	0	0.0	2.5	2.5	
<b>Lamoka</b>	<b>508</b>	<b>575</b>	<b>88</b>	<b>4</b>	<b>83</b>	<b>5</b>	<b>8</b>	<b>1.073</b>	<b>1.0</b>	<b>0</b>	<b>40</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>4.0</b>	<b>3.0</b>	
MSV033-1	503	550	91	9	89	3	0	1.069	1.0	0	40	0	0	1.0	3.5	4.5	severe heat sprouts
AF4648-2	483	513	94	6	65	29	0	1.076	1.5	0	50	0	0	0.0	2.5	3.5	heat sprouts
MSM246-B	467	521	90	7	76	14	3	1.073	1.0	0	60	0	0	0.0	4.0	3.0	
NYK27-1	466	530	88	6	83	5	6	1.071	1.0	0	0	0	0	0.0	4.5	2.0	
NC0349-3	465	514	91	9	88	3	0	1.067	1.0	10	70	0	0	0.0	3.5	3.5	
MSV358-3	453	511	89	8	84	5	3	1.066	1.0	0	70	0	0	0.0	4.0	2.0	
Manistee	451	524	86	7	79	7	7	1.068	1.0	0	20	20	0	1.0	3.5	2.5	
NYL1-7	449	501	90	10	90	0	0	1.068	1.0	0	30	0	0	0.0	3.5	2.0	
MSW509-5	425	491	86	14	86	0	0	1.065	1.0	0	90	0	0	0.0	3.0	2.5	
MSV301-2	416	477	87	6	79	8	6	1.071	1.0	0	70	0	0	0.5	4.0	2.0	
B2869-29	410	510	80	20	80	0	0	1.077	1.0	0	50	0	0	0.0	3.0	3.0	
<b>Snowden</b>	<b>403</b>	<b>482</b>	<b>84</b>	<b>9</b>	<b>79</b>	<b>5</b>	<b>8</b>	<b>1.068</b>	<b>1.0</b>	<b>0</b>	<b>80</b>	<b>20</b>	<b>0</b>	<b>3.0</b>	<b>3.0</b>	<b>4.0</b>	
NYL7-2	399	453	88	10	88	0	2	1.071	1.0	0	20	0	0	0.0	3.5	2.0	
CO07070-13W	380	424	90	10	90	0	0	1.065	1.0	0	20	0	0	1.5	5.0	1.5	
BNC311-4	364	495	74	9	74	0	17	1.069	1.0	0	20	0	0	0.0	4.0	2.0	
<b>MEAN</b>	<b>453</b>	<b>515</b>	<b>88</b>	<b>8</b>	<b>83</b>	<b>5</b>	<b>4</b>	<b>1.070</b>	<b>1.0</b>	<b>1</b>	<b>46</b>	<b>3</b>	<b>0</b>	<b>0.44</b>	<b>3.6</b>	<b>2.8</b>	tr = trace, sl = slight, N/A = not available

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

<sup>2</sup>TUBER QUALITY  
(percent of tubers out of 10)  
HH: Hollow Heart  
VD: Vascular Discoloration  
IBS: Internal Brown Spot  
BC: Brown Center

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

<sup>5</sup>VINE VIGOR RATING  
Date: 7-Jun-16  
Ratings: 1 - 5  
1: Slow Emergence  
5: Early Emergence (vigorous vine, some flowering)

<sup>6</sup>VINE MATURITY RATING  
Date: 12-Aug-16  
Ratings: 1 - 5  
1: Early (vines completely dead)  
5: Late (vigorous vine, some flowering)

Planted: 27-Apr-16  
Vines Killed: 31-Aug-16  
Days from Planting to Vine Kill: 126  
Seed Spacing: 10"  
Fumigation: None

<sup>4</sup>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

\*data not replicated

<sup>7</sup>MAWN STATION: Constantine  
Planting to Vine Kill

# 2016 Replicated Chip Processing Potato Variety Trial

## Walther Farms, St. Joseph County, MI

Harvest 13-Sep-16 139 Days

DD, Base 40<sup>7</sup> 3621

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>					SP GR*	CHIP SCORE <sup>3+</sup>	RAW TUBER QUALITY <sup>2</sup> (%)				COMMON	VINE	VINE	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO			HH	VD	IBS	BC	RATING <sup>4</sup>	VIGOR <sup>5</sup>	MATURITY <sup>6</sup>	
BNC182-5	630	672	94	6	77	17	0	1.077	1.0	0	57	0	0	0.2	4.0	3.2	
MSX540-4	620	684	90	4	76	15	6	1.073	1.0	0	37	3	0	0.3	3.5	2.5	heat sprouting, pear shaped tubers
NY152	596	645	92	8	85	7	0	1.068	1.0	0	27	17	0	0.0	3.0	2.5	
MSV313-2	578	614	94	2	23	71	4	1.067	1.0	0	23	23	0	0.2	3.7	2.8	
MSW485-2	578	649	89	6	85	5	4	1.072	1.0	0	33	37	0	0.7	3.7	2.5	
W6822-3	543	587	93	7	80	13	0	1.074	1.0	0	43	17	0	0.0	4.2	2.5	non uniform tuber type
W8822-1	543	615	88	7	88	0	5	1.073	1.0	0	23	13	0	0.0	3.8	2.5	heavy netted skin, tr heat sprouts, yellow flesh
NY157	528	591	89	6	86	4	5	1.065	1.0	0	30	3	0	0.2	3.6	2.5	
NY153	507	575	89	8	83	6	4	1.076	1.0	0	30	0	3	0.2	3.0	2.5	pear shaped tubers, heat sprouts
MSW474-1	499	575	87	13	83	4	0	1.070	1.0	0	23	0	0	0.0	3.3	2.5	heavy netted skin
<b>Snowden</b>	<b>487</b>	<b>544</b>	<b>89</b>	<b>8</b>	<b>85</b>	<b>4</b>	<b>2</b>	<b>1.070</b>	<b>1.0</b>	<b>0</b>	<b>50</b>	<b>0</b>	<b>3</b>	<b>2.3</b>	<b>3.3</b>	<b>2.5</b>	
MSV241-2	486	522	93	6	83	10	1	1.076	1.0	0	43	3	0	1.3	2.5	3.0	heavy netted skin
W5955-1	485	551	89	5	68	21	6	1.068	1.0	0	13	43	0	0.5	3.8	2.5	
MSR127-2	475	563	85	7	79	5	9	1.069	1.0	0	3	0	0	0.5	3.2	3.0	gc in pickouts, heavy netted skin, alligator hide
MSZ219-14	468	531	88	4	81	8	8	1.067	1.0	7	43	0	0	0.5	4.0	2.5	heat sprouting, non uniform tuber type
MSZ222-19	449	504	89	5	67	22	9	1.076	1.0	7	23	17	0	0.3	4.2	2.5	
ND7519-1	445	520	85	5	82	3	10	1.072	1.0	0	27	3	0	0.0	4.5	2.5	severe heat sprouting
MSZ219-1	426	488	87	3	84	3	9	1.068	1.0	0	40	0	0	0.2	4.3	2.5	gc in pickouts
<b>Pike</b>	<b>417</b>	<b>456</b>	<b>91</b>	<b>8</b>	<b>85</b>	<b>6</b>	<b>1</b>	<b>1.073</b>	<b>1.5</b>	<b>0</b>	<b>20</b>	<b>7</b>	<b>0</b>	<b>0.0</b>	<b>3.2</b>	<b>2.5</b>	
B2727-2	387	451	86	13	82	3	2	1.075	1.0	0	20	0	0	0.5	3.2	2.5	
MSV507-40	375	461	81	6	66	16	13	1.072	1.0	0	37	23	7	0.5	3.5	2.5	tr heat sprouts
NDTX081648CB-13W	359	513	71	12	71	1	16	1.069	1.0	0	47	0	0	0.0	4.0	2.5	severe heat sprouting
MSV383-B	338	500	68	4	61	7	29	1.080	1.0	3	23	3	0	0.0	3.8	2.5	severe gc in pickouts, heavy netted skin
CO07070-10W	226	313	71	29	69	2	0	1.079	1.0	0	0	0	0	0.2	4.3	2.3	
<b>MEAN</b>	<b>477</b>	<b>547</b>	<b>87</b>	<b>8</b>	<b>76</b>	<b>11</b>	<b>6</b>	<b>1.072</b>	<b>1.0</b>	<b>1</b>	<b>30</b>	<b>9</b>	<b>1</b>	<b>0.35</b>	<b>3.6</b>	<b>2.6</b>	tr = trace, sl = slight, N/A = not available
<b>LSD<sub>0.05</sub></b>	<b>109.7</b>	<b>82.4</b>	<b>N/A</b>	<b>5.877</b>	<b>16.7</b>	<b>12.3</b>	<b>N/A</b>			<b>3.3</b>	<b>N/A</b>	<b>17.2</b>	<b>N/A</b>	<b>0.6</b>	<b>0.7</b>	<b>N/A</b>	SED = stem end defect, gc = growth crack
<b>ANOVA (Prob&gt;F)</b>	<b>&lt;.0001</b>	<b>&lt;.0001</b>	<b>0.0757</b>	<b>&lt;.0001</b>	<b>&lt;.0001</b>	<b>&lt;.0001</b>	<b>0.1100</b>			<b>0.0009</b>	<b>0.090</b>	<b>&lt;.0001</b>	<b>0.557</b>	<b>&lt;.0001</b>	<b>&lt;.0001</b>	<b>0.48</b>	

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

<sup>2</sup>TUBER QUALITY  
(percent of tubers out of 10)  
HH: Hollow Heart  
VD: Vascular Discoloration  
IBS: Internal Brown Spot  
BC: Brown Center

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

<sup>4</sup>VINE VIGOR RATING  
Date: 7-Jun-16  
Ratings: 1 - 5  
1: Slow Emergence  
5: Early Emergence (vigorous vine, some flowering)

<sup>5</sup>VINE MATURITY RATING  
Date: 12-Aug-16  
Ratings: 1 - 5  
1: Early (vines completely dead)  
5: Late (vigorous vine, some flowering)

Planted: 27-Apr-16  
Vines Killed: 31-Aug-16  
Days from Planting to Vine Kill: 126  
Seed Spacing: 10"  
Fumigation: Yes

<sup>4</sup>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

\*data not replicated

<sup>7</sup>MAWN STATION: Constantine  
Planting to Vine Kill

# 2016 MSU Processing Potato Variety Trials

Entry	Pedigree	2015 Scab Rating*	Characteristics
Atlantic	Wauseon X B5141-6 (Lenape)	2.8	High yield, early maturing, high incidence of internal defects, high specific gravity
Lamoka (NY139)	NY120 X NY115	1.6	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	2.4	Average yield, scab resistance similar to Snowden, medium specific gravity, long storage potential, uniform, flat round tuber type, heavy netted skin
MegaChip (W1201)	WISCHIP X FYF85	-	High specific gravity, round oval tubers, medium-large size, common scab resistant, deep apical eye
Pike (NYE55-35)	Allegany X Atlantic	1.4	Average yield, early to mid-season maturity, small tuber size profile, early storage, some internal defects, medium specific gravity
Snowden (W855)	B5141-6 X Wischip	2.8	High yield, late maturity, mid-season storage, reconditions well in storage, medium to high specific gravity
AF4648-2	NY132 X Liberator	0.9	Moderate yield potential, common scab resistant, high specific gravity, low internal defects
AF5040-8	AF2376-5 X Lamoka	-	Medium maturing, vigorous vines, pale yellow flesh. High yield, high gravity, common scab susceptible, round to oblong shape.
AF5432-5	Harley Blackwell X Marcy	-	Medium to late maturing, vigorous vines, round to oblong shape, netted skin, high yield, moderate gravity, common scab susceptibility.
B2727-2	B0766-3 X B2135-163	-	
B2869-29	Harley Blackwell X B1316-5	-	
B2904-2	B1873-6 X Coastal Chip	-	
BNC182-5	Tacna X B0766-3	2.1	
BNC311-4	BNC41-7 X NCB2489-5	-	

<b>Entry</b>	<b>Pedigree</b>	<b>2015 Scab Rating*</b>	<b>Characteristics</b>
CO07070-10W	B0766-3T X CO00188-4W	-	High yield, medium vine vigor and maturity, high gravity.
CO07070-13W	B0766-3T X CO00188-4W	-	Vigorous vine, early maturing, medium yield and specific gravity.
MSM246-B	MSE274-A X NY115		
MSR127-2	MSJ167-1 X MSG227-2	1.3	Scab resistant, high specific gravity, good chip quality from storage, above average yield potential, medium-late maturity
MSV033-1	Beacon Chipper X MSJ147-1	1.9	High yield potential, common scab susceptible, high specific gravity
MSV241-2	Marcy X MegaChip	1.5	Scab resistant, high yield potential and specific gravity
MSV301-2	MSN105-1 X MSP197-1	1.5	Scab resistant with high yield potential and specific gravity. Currently in Potatoes USA Fast Track Program
MSV313-2	MSN238-A X OP	-	Scab resistant with high yield potential. Large round tubers with smooth shape. Potential storage chipper
MSV383-B	Pike X MSN238-A	1.1	Scab resistant chipper with high specific gravity. Smooth, round attractive tuber with storage potential
MSV358-3	MSP239-1 X OP	1.6	Scab resistant with high specific gravity. Has chip storage potential from 50°F. In Fast Track program
MSV507-40	Tundra X Kalkaska	-	Highly scab resistant long term storage chipper with high specific gravity. Currently in NCPT
MSW474-1	MSN190-2 X MSP516-A	-	Scab resistant with storage potential. Currently in the NCPT
MSW485-2	MSQ070-1 X MSR156-7	2.0	Scab resistant with moderate late-blight resistance. High specific gravity and attractive tuber shape. In Fast Track program
MSW509-5	Kalkaska X Marcy	1.4	Scab resistant with high yield potential. Smooth attractive tubers. Not for long-term storage. Currently in Fast Track program

<b>Entry</b>	<b>Pedigree</b>	<b>2015 Scab Rating*</b>	<b>Characteristics</b>
MSX540-4	Saginaw Chipper X NY139	2.0	Medium/high yield potential, common scab, late blight and PVY resistant, high specific gravity. Currently in Fast Track program
MSZ219-1	Saginaw Chipper X MSR127-2	1.1	Scab, PVY and late-blight resistant with high specific gravity. Tuber appearance is smooth and round. Currently in NCPT
MSZ219-14	Saginaw Chipper X MSR127-2	-	Scab, PVY and late-blight resistant with high specific gravity. Potential long-term storage chipper. Tubers are smooth and round. Currently in NCPT
MSZ222-19	MSR127-2 X Tundra	1.3	Scab resistant with high yield potential and specific gravity. Long-term storage potential. Currently in NCPT
NC0349-3	Snowden X B0564-9	-	Medium to late maturity, round tuber shape, medium specific gravity, netted skin, good chip color, some potential susceptibility to internal defects
ND7519-1	ND3828-15 X W1353	-	High specific gravity, medium to high yield potential, medium vine maturity, round smooth skinned tubers
NDA081453CAB-2C	Dakota Diamond X ND039173CAB-22	-	High yield potential, some resistance to common scab
NDTX081648CB-13W	ND8456-1 X ND7377CB-1	-	
NY152 (NYH15-5)	B38-14 X Marcy	-	High yield potential, medium specific gravity, moderate resistance to common scab, medium-late maturity
NY153	Waneta X Pike	-	
NY154 (NYH15-17)	B38-14 X Marcy	1.8	High yield potential, high specific gravity, moderate common scab resistance, late maturing
NY157	White Pearl X Marcy	2.1	High yield potential, low internal defects, medium specific gravity, moderate common scab resistance
NY162 (NYK31-4)	NYE106-2 X NYE48-2	-	
NYK27-1	Ivory Crisp X E48-2	-	

<b>Entry</b>	<b>Pedigree</b>	<b>2015 Scab Rating*</b>	<b>Characteristics</b>
NYL1-7	NYD40-35 X Pike	-	
NYL7-2	NYE50-8 X NYE48-2	-	
TX09396-1W	Atlantic X Lamoka	-	Large tuber size, nice skin, moderate to high yield potential
W5955-1	Pike X C31-5-120	1.5	Average yield, high specific gravity, size profile similar to Atlantic, long storage potential, pear-shaped
W6822-3	White Pearl X Dakota Pearl	-	Average yield, medium-late maturity, high specific gravity, susceptible to internal defects, moderate common scab resistance
W8822-1	Fasan X Tundra	-	High specific gravity, tolerant to PVY, late maturity, long storage potential, cream to yellow colored flesh depending on environmental conditions

\*Scab rating based on 0-5 scale; 0 = most resistant and 5 = most susceptible. Common scab data provided from MSU Potato Breeding and Genetics 2015 Scab Disease Trial at the Montcalm Research Farm. Line descriptions provided by various potato breeding programs and updated by Potato Outreach Program following evaluations at various trial locations.

## 2016 MPIC Demonstration Box Bin Variety Descriptions

Entry	Pedigree	2015 Scab Rating*	Characteristics
Hodag Chipper (W5955-1)	Pike X C31-5-120	1.5	Average yield, high specific gravity, size profile similar to Atlantic, long storage potential
Lamoka (NY139)	NY120 X NY115	1.6	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	2.4	Average yield, scab resistance similar to Snowden, medium specific gravity, long storage potential, uniform, flat round tuber type, heavy netted skin
Snowden (W855)	B5141-6 X Wischip	2.8	High yield, late maturity, mid-season storage, reconditions well in storage, medium to high specific gravity
AF4648-2	NY132 X Liberator	0.9	Moderate yield potential, common scab resistant, high specific gravity, low internal defects, resistant to PVY and Golden Nematode, must be chemically mature
B2727-2	B0766-3 X B2135-163	-	
CO07070-10W	B0766-3T X CO00188-4W	-	High yield, medium vine vigor and maturity, high specific gravity.
CO07070-13W	B0766-3T X CO00188-4W	-	Vigorous vine, early maturing and tuber bulking, medium yield and specific gravity
MSM246-B	MSE274-A X NY115	-	Average yield, medium specific gravity, common scab resistance similar to Snowden, long-term chip quality similar to Manistee
MSR127-2	MSJ167-1 X MSG227-2	1.3	Scab resistant, high specific gravity, good chip quality from storage, above average yield potential, medium-late maturity
MSV033-1	Beacon Chipper X MSJ147-1	1.9	High yield potential, common scab susceptible, high specific gravity
MSV241-2	Marcy X MegaChip	1.5	Scab resistant, high yield potential and specific gravity
MSV301-2	MSN105-1 X MSP197-1	1.5	Scab resistant with high yield potential and specific gravity, currently in Potatoes USA Fast Track Program
MSV313-2	MSN238-A X OP	-	Scab resistant with high yield potential, large round tubers with smooth shape, potential storage chipper
MSV383-B	Pike X MSN238-A	1.1	Scab resistant chipper with high specific gravity. Smooth, round attractive tuber with storage potential
MSV358-3	MSP239-1 X OP	1.6	Scab resistant with high specific gravity, has chip storage potential from 50°F, in Fast Track program
MSV507-40	Tundra X Kalkaska	-	Highly scab resistant long term storage chipper with high specific gravity, currently in NCPT
MSW474-1	MSN190-2 X MSP516-A	-	Scab resistant with storage potential, currently in the NCPT

<b>Entry</b>	<b>Pedigree</b>	<b>2015 Scab Rating*</b>	<b>Characteristics</b>
MSW485-2	MSQ070-1 X MSR156-7	2.0	Scab resistant with moderate late-blight resistance, high specific gravity and attractive tuber shape, in Fast Track program
MSW509-5	Kalkaska X Marcy	1.4	Scab resistant with high yield potential, smooth attractive tubers, not for long-term storage, currently in Fast Track program
MSX540-4	Saginaw Chipper X Lamoka	2.0	Medium/high yield potential, common scab, late blight and PVY resistant, high specific gravity, currently in Fast Track program
NC0349-3	Snowden X B0564-9	-	Medium to late maturity, round tuber shape, medium specific gravity, netted skin, good chip color, some potential susceptibility to internal defects
ND7519-1	ND3828-15 X W1353	-	High specific gravity, medium to high yield potential, medium vine maturity, round smooth skinned tubers
NDTX081648CB-13W	ND8456-1 X ND7377CB-1	-	
NY152 (NYH15-5)	B38-14 X Marcy	-	High yield potential, medium specific gravity, moderate resistance to common scab, medium-late maturity
NY153	Waneta X Pike	-	
NY154 (NYH15-17)	B38-14 X Marcy	1.8	High yield potential, high specific gravity, moderate common scab resistance, late maturing
NY157	White Pearl X Marcy	2.1	High yield potential, low internal defects, medium specific gravity, moderate common scab resistance
NY162 (NYK31-4)	NYE106-2 X NYE48-2	-	
NYK27-1	Ivory Crisp X NYE48-2	-	
NYL1-7	NYD40-35 X Pike	-	
NYL7-2	NYE50-8 X NYE48-2	-	
TX09396-1W	Atlantic X Lamoka	-	Large tuber size, nice skin, moderate to high yield potential
W6822-3	White Pearl X Dakota Pearl	-	Average yield, medium-late maturity, high specific gravity, susceptible to internal defects, moderate common scab resistance
W8822-1	Fasan X Tundra	-	High specific gravity, tolerant to PVY, late maturity, long storage potential, cream to yellow colored flesh depending on environmental conditions

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