

# **2017 Potato Outreach Program On-Farm Variety Trials**

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

### **Table of Contents**

<b>1-2.....</b>	<b>2017 Statewide Chip Line Summary</b>
<b>3.....</b>	<b>2017 Processing Trial; 4-L Farms, Allegan County, MI</b>
<b>4.....</b>	<b>2017 Processing Trial; County Line Farms, Allegan County, MI</b>
<b>5.....</b>	<b>2017 Processing Trial; Crawford Farms, Montcalm County, MI</b>
<b>6.....</b>	<b>2017 Processing Trial; Crooks Farms Set#1, Montcalm County, MI</b>
<b>7.....</b>	<b>2017 Processing Trial; Crooks Farms Set#2, Montcalm County, MI</b>
<b>8.....</b>	<b>2017 Processing Trial; Crooks Farms Set #3 Montcalm County, MI</b>
<b>9.....</b>	<b>2017 Processing Trial; Crooks Farms Set #4, Montcalm County, MI</b>
<b>10.....</b>	<b>2017 Processing Trial; Johnson’s Farm, Bay County, MI</b>
<b>11.....</b>	<b>2017 Early Bulking Chip Trial; Lennard Ag. Co.; St. Joseph County, MI</b>
<b>12.....</b>	<b>2017 Processing Trial; Lennard Ag. Co.; St. Joseph County, MI</b>
<b>13.....</b>	<b>2017 Processing Trial; Main Farms, Montcalm County, MI</b>
<b>14-15.....</b>	<b>2017 MPIC Box Bin Trial; Montcalm Research Center</b>
<b>16.....</b>	<b>2017 MDARD Late Box Bin Trial; Montcalm Research Center</b>
<b>17.....</b>	<b>2017 Processing Trial; Sandyland Farms, Montcalm County, MI</b>
<b>18.....</b>	<b>2017 Potatoes USA/SNAC Trial; Sandyland Farms, Montcalm County, MI</b>
<b>19.....</b>	<b>2017 Replicated Processing Trial; Walther Farms; St. Joseph County, MI</b>

## 2017 Michigan Statewide Chip Processing Potato Variety Trials

### Overall Averages - Sixteen Locations

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>						RAW TUBER QUALITY <sup>4</sup> (%)					COMMON SCAB RATING <sup>5</sup>	SED SCORE <sup>6</sup>	VINE VIGOR <sup>7</sup>	VINE MATURITY <sup>8</sup>	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR <sup>2</sup>	OTF CHIP SCORE <sup>3</sup>	HH	VD	IBS	BC					
MSV313-2 <sup>di</sup>	713	743	96	2	40	56	2	1.082	1.8	0	20	0	0	0.8	1.8	3.3	3.5	skinning, very large tuber size
MSZ219-13 <sup>lp</sup>	596	627	96	2	88	8	2	1.082	1.0	0	12	0	0	0.0	1.0	3.3	3.5	
MSX111-3 <sup>l</sup>	530	579	91	7	73	18	2	1.087	1.0	10	20	20	20	0.5	-	3.5	3.0	
W9968-5 <sup>bdefgijklp</sup>	526	594	88	10	82	6	2	1.087	1.4	6	11	6	3	0.6	2.8	3.1	3.2	pear shaped, oval to oblong tuber type, heavy russetting
<b>Atlantic<sup>bdip</sup></b>	<b>520</b>	<b>548</b>	<b>95</b>	<b>4</b>	<b>83</b>	<b>12</b>	<b>1</b>	<b>1.083</b>	<b>1.6</b>	<b>10</b>	<b>13</b>	<b>3</b>	<b>0</b>	<b>1.8</b>	<b>2.3</b>	<b>3.7</b>	<b>3.3</b>	<b>alligator hide</b>
MSX540-4 <sup>abeghijklmnop</sup>	511	579	88	10	84	4	2	1.090	1.2	0	12	1	0	0.8	1.1	2.9	3.3	
AF5040-8 <sup>dinp</sup>	497	553	88	11	86	2	1	1.084	1.8	0	29	0	0	1.4	1.5	3.7	2.0	large overall tuber size, few b size tubers
NY152 <sup>abcdefghijklmnop</sup>	496	577	86	12	82	4	2	1.084	1.3	5	13	0	1	1.1	0.7	3.0	2.8	
MSW485-2 <sup>abcefgijklmnop</sup>	495	583	84	14	79	5	2	1.090	1.3	9	12	2	2	0.8	2.6	3.0	3.5	alligator hide
W8822-1 <sup>bdik</sup>	494	564	87	11	79	8	2	1.079	1.3	0	8	0	0	0.6	1.5	3.3	2.5	yellow flesh, heavy net skin, pointed pick outs
NY162 <sup>kjp</sup>	485	530	91	6	83	8	3	1.080	1.1	3	8	4	3	0.8	1.2	3.1	2.0	very bright chip color
Hodag <sup>abcdefghijklmnop</sup>	480	539	88	8	76	13	4	1.086	1.0	8	17	2	2	0.5	0.8	3.4	3.1	poined tubers in pickouts
<b>Snowden<sup>abchijklmnop</sup></b>	<b>478</b>	<b>550</b>	<b>88</b>	<b>10</b>	<b>84</b>	<b>4</b>	<b>2</b>	<b>1.088</b>	<b>1.2</b>	<b>4</b>	<b>17</b>	<b>4</b>	<b>0</b>	<b>0.8</b>	<b>0.5</b>	<b>3.5</b>	<b>2.7</b>	
MSR127-2 <sup>abcefgijklmnop</sup>	471	536	87	9	81	7	4	1.088	1.1	3	10	1	0	0.5	1.0	3.3	3.7	alligator hide, some brown center
Mega Chip <sup>k</sup>	466	558	84	5	63	21	11	1.091	1.0	0	20	0	0	0.0	1.5	4.5	2.0	
MSZ052-1 <sup>befgijklmp</sup>	463	536	86	7	75	11	7	1.078	1.3	3	11	0	0	0.5	1.2	3.1	3.6	sheep nose, deep apical eyes
NDA081453CAB-2C <sup>bdikop</sup>	463	516	90	7	81	9	3	1.078	1.5	0	16	12	3	1.0	1.7	3.5	2.6	uniform round tuber type
MSV030-4 <sup>befgijklmnop</sup>	461	518	89	10	85	4	2	1.090	1.2	0	12	0	0	0.8	1.5	2.9	2.8	slight pink eye, flattened round tuber type, netted skin
Pinnacle Chipper <sup>kp</sup>	455	733	80	20	79	1	0	1.090	1.0	5	25	0	0	0.8	0.8	4.0	2.0	
ND7519-1 <sup>bdefgijklp</sup>	452	512	88	10	85	3	2	1.086	1.3	6	10	9	4	1.0	0.9	3.8	2.5	
ND7799C-1 <sup>bdijklp</sup>	451	502	89	8	75	14	3	1.066	1.3	3	23	1	0	0.6	1.6	4.0	2.1	skinning, trace alligator hide, heat sprouts
TX09396-1W <sup>bdijklp</sup>	440	480	92	4	55	37	4	1.086	1.0	20	13	22	0	1.1	0.6	2.4	2.8	skinning, knobs and misshapes in pickouts
MSZ022-7 <sup>lmp</sup>	437	482	90	6	79	11	3	1.075	1.2	0	15	0	0	0.5	1.5	2.7	4.3	
<b>Lamoka<sup>abefijklmnop</sup></b>	<b>432</b>	<b>501</b>	<b>89</b>	<b>7</b>	<b>84</b>	<b>5</b>	<b>4</b>	<b>1.085</b>	<b>1.4</b>	<b>2</b>	<b>15</b>	<b>1</b>	<b>1</b>	<b>1.0</b>	<b>1.1</b>	<b>3.5</b>	<b>2.6</b>	<b>flattened oval tuber type, chip blistering</b>
MSZ219-1 <sup>lp</sup>	432	460	95	3	78	17	2	1.081	1.0	7	7	0	0	0.3	-	3.7	3.5	
Manistee <sup>abchijklmnop</sup>	427	470	89	9	82	7	1	1.081	1.1	0	5	0	0	0.9	0.6	3.4	2.6	flat round tuber type, nice netted skin type
AF4648-2 <sup>bdikp</sup>	422	480	87	9	82	5	4	1.081	1.2	4	10	2	0	0.6	1.3	3.6	2.8	slight bruising, oval tuber type, bright appearance
MSZ219-14 <sup>lp</sup>	407	439	93	4	86	7	3	1.080	1.5	0	25	0	5	0.3	0.5	3.7	3.5	
NY157 <sup>bcj</sup>	398	460	87	12	81	6	1	1.083	1.0	25	0	0	5	2.3	0.5	2.0	2.5	
MSV358-3 <sup>abefgijklmnop</sup>	390	438	89	9	85	4	3	1.079	1.4	1	10	0	0	0.8	0.9	2.8	2.3	very nice chip color and quality
MSZ242-9 <sup>l</sup>	351	458	76	19	72	4	5	1.094	1.0	0	10	20	0	0.0	-	4.0	3.0	
<b>Pike<sup>bkm</sup></b>	<b>339</b>	<b>401</b>	<b>84</b>	<b>13</b>	<b>75</b>	<b>9</b>	<b>3</b>	<b>1.082</b>	<b>1.0</b>	<b>0</b>	<b>7</b>	<b>30</b>	<b>10</b>	<b>0.2</b>	<b>0.3</b>	<b>2.8</b>	<b>2.7</b>	
Saginaw Chipper <sup>kp</sup>	338	426	80	20	79	1	0	1.079	1.3	0	40	0	0	0.3	0.8	5.0	2.5	
MSX120-5Y <sup>m</sup>	336	437	77	19	75	2	4	1.078	1.0	0	0	0	0	0.5	-	2.5	4.0	severe pink eye, light yellow flesh
Madison <sup>bkip</sup>	327	392	83	12	80	3	5	1.097	1.5	10	6	3	0	0.6	0.7	3.4	1.8	
NDTX081648CB-13W <sup>o</sup>	320	405	79	19	78	1	2	1.083	3.0	0	40	0	0	2.0	-	1.5	3.0	
MSV016-2 <sup>m</sup>	299	322	93	5	63	30	2	1.089	2.5	30	0	0	0	0.0	-	1.5	3.5	smooth light skin
MSV033-1 <sup>m</sup>	297	437	68	4	49	19	28	1.084	1.0	60	0	0	0	1.0	-	2.5	4.0	many misshapen tubers, sheep nose, knobs
B2727-2 <sup>o</sup>	262	294	89	6	82	7	5	1.081	3.0	10	17	0	0	2.7	-	0.5	3.5	oval tuber type
MSX050-1 <sup>m</sup>	249	352	70	17	64	6	13	1.065	1.5	10	0	0	0	0.5	-	3.5	4.0	
MSV307-2 <sup>m</sup>	241	352	68	16	59	9	16	1.079	1.0	30	0	0	0	0.5	-	3.0	3.0	many misshapen tubers, growth crack
MSZ242-13 <sup>l</sup>	240	313	77	20	77	0	3	1.100	1.0	0	0	0	0	0.0	-	3.5	3.0	
MSZ219-46 <sup>l</sup>	234	246	95	5	73	22	0	1.079	1.0	0	20	0	0	0.5	-	4.0	3.5	
AC01144-1W <sup>o</sup>	222	318	71	23	68	3	6	1.067	4.0	3	43	0	0	1.3	-	2.0	3.0	some black leg
MSW075-2 <sup>l</sup>	125	197	64	35	64	0	1	1.078	1.0	0	0	0	0	0.0	-	3.5	3.0	
<b>MEAN</b>	<b>440</b>	<b>507</b>	<b>87</b>	<b>9</b>	<b>77</b>	<b>10</b>	<b>4</b>	<b>1.084</b>	<b>1.3</b>	<b>6</b>	<b>14</b>	<b>4</b>	<b>1</b>	<b>0.8</b>	<b>1.2</b>	<b>3.2</b>	<b>2.9</b>	

**2017 Chip Variety Trial Sites**

- <sup>a</sup>4-L Farms, Allegan County
- <sup>b</sup>County Line Farms, Allegan County
- <sup>c</sup>Crawford Farms, Montcalm County
- <sup>d</sup>Crooks Farms Set #1, Montcalm County
- <sup>e</sup>Crooks Farms Set #2, Montcalm County
- <sup>f</sup>Crooks Farms Set #3, Montcalm County
- <sup>g</sup>Crooks Farms Set #4, Montcalm County
- <sup>h</sup>Johnsons Farms, Bay County
- <sup>i</sup>Lennard Ag. Company Early Trial, St. Joseph County, MI
- <sup>j</sup>Lennard Ag. Company Chip Trial, St. Joseph County, MI
- <sup>k</sup>Main Farms, Montcalm County
- <sup>l</sup>MSU Box Bin Trial, Montcalm County
- <sup>m</sup>MSU Late Box Bin Trial, Montcalm County
- <sup>n</sup>Sandyland Farms, Montcalm County
- <sup>o</sup>Sandyland Farms SNAC Trial, Montcalm County
- <sup>p</sup>Walther Farms, St. Joseph County

**<sup>1</sup>SIZE**

Bs: < 1 7/8"  
As: 1 7/8" - 3 1/4"  
OV: > 3 1/4"  
PO: Pickouts

**<sup>2</sup>SPECIFIC GRAVITY**

Data not replicated  
within trials

**<sup>3</sup>OUT OF THE FIELD CHIP COLOR SCORE  
(SNAC Scale)**

Ratings: 1 - 5  
1: Excellent  
5: Poor

**<sup>4</sup>RAW TUBER QUALITY  
(percent of tubers out of 10)**

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

**<sup>5</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>6</sup>SED(STEM END DEFECT) SCORE**

0: No stem end defect  
1: Trace stem end defect  
2: Slight stem end defect  
3: Moderate stem end defect  
4: Severe stem end defect  
5: Extreme stem end defect

**<sup>7</sup>VINE VIGOR RATING**

Date: variable  
Rating 1-5  
1: Slow emergence  
5: Early emergence

**<sup>8</sup>VINE MATURITY RATING**

Date: variable  
Rating 1-5  
1: Early (vines completely dead)  
5: Late (vigorous vines, some flowering)

# 2017 Chip Processing Potato Variety Trial

## 4-L Farms, Allegan County, MI

Planting: 5/17 Vine Kill: 9/12 Harvest: 9/25  
GDD<sub>40</sub>: 3240

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>					RAW TUBER QUALITY <sup>4</sup> (%)						COMMON SCAB RATING <sup>5</sup>	SED SCORE <sup>6</sup>	VINE VIGOR <sup>7</sup>	VINE MATURITY <sup>8</sup>	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR <sup>2</sup>	OTF CHIP SCORE <sup>3</sup>	HH	VD	IBS	BC					
Hodag	660	703	93	4	68	25	3	1.085	1.0	0	30	0	0	0.5	0.5	4.0	3.5	
MSX540-4	579	653	89	10	86	3	1	1.089	1.5	0	40	0	0	0.5	1.0	3.5	3.0	
Manistee	521	555	94	6	81	13	0	1.085	1.0	0	0	0	0	0.0	0.5	3.5	4.0	flat round tuber type
<b>Lamoka</b>	<b>513</b>	<b>554</b>	<b>92</b>	<b>4</b>	<b>87</b>	<b>5</b>	<b>4</b>	<b>1.087</b>	<b>1.0</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>0.5</b>	<b>0.5</b>	<b>4.0</b>	<b>3.0</b>	<b>flattened oval tuber type</b>
NY152	501	562	89	9	84	5	2	1.082	1.5	0	40	0	0	0.0	0.5	3.5	3.0	
<b>Snowden</b>	<b>475</b>	<b>540</b>	<b>88</b>	<b>7</b>	<b>87</b>	<b>1</b>	<b>5</b>	<b>1.093</b>	<b>1.0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0.5</b>	<b>4.0</b>	<b>3.5</b>	
MSW485-2	466	541	86	13	84	2	1	1.097	2.0	0	10	0	0	0.5	3.0	4.0	3.0	
MSV358-3	449	495	91	8	91	0	1	1.076	1.0	0	10	0	0	0.5	0.5	3.5	3.5	
MSR127-2	161	260	62	33	55	7	5	1.083	1.0	0	10	0	0	0.5	0.5	3.5	4.0	
<b>MEAN</b>	<b>481</b>	<b>540</b>	<b>87</b>	<b>10</b>	<b>80</b>	<b>7</b>	<b>2</b>	<b>1.086</b>	<b>1.2</b>	<b>0</b>	<b>17</b>	<b>0</b>	<b>0</b>	<b>0.3</b>	<b>0.8</b>	<b>3.7</b>	<b>3.4</b>	

**<sup>1</sup>SIZE**

Bs: < 1 7/8"  
As: 1 7/8" - 3 1/4"  
OV: > 3 1/4"  
PO: Pickouts

**<sup>2</sup>SPECIFIC GRAVITY**

Data not replicated

**<sup>3</sup>OUT OF THE FIELD CHIP COLOR SCORE**

(SNAC Scale)  
Ratings: 1 - 5  
1: Excellent  
5: Poor

**<sup>4</sup>RAW TUBER QUALITY**

(percent of tubers out of 10)  
HH: Hollow Heart  
VD: Vascular Discoloration  
IBS: Internal Brown Spot  
BC: Brown Center

**<sup>5</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>6</sup>SED(STEM END DEFECT) SCORE**

0: No stem end defect  
1: Trace stem end defect  
2: Slight stem end defect  
3: Moderate stem end defect  
4: Severe stem end defect  
5: Extreme stem end defect

**<sup>7</sup>VINE VIGOR RATING**

Date: 6/15/17  
Rating 1-5  
1: Slow emergence  
5: Early emergence (vigorous vine, some flowering)

**<sup>8</sup>VINE MATURITY RATING**

Date: 8/29/17  
Rating 1-5  
1: Early (vines completely dead)  
5: Late (vigorous vines, some flowering)

**FIELD DATA**

Planting date 5/17/17  
Vine Kill Date 9/12/17  
Harvest Date 9/25/17  
Days (planting to vine kill) 118  
Days (planting to harvest) 131  
GDD<sub>40</sub> MAWN Station Allegan  
GDD<sub>40</sub> (planting to vine kill) 3240  
Seed Spacing 10"

# 2017 Chip Processing Potato Variety Trial

## County Line Farms, Allegan County, MI

Planting: 5/17 Vine Kill: 9/15 Harvest: 10/10  
GDD<sub>40</sub>: 3315

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>					RAW TUBER QUALITY <sup>4</sup> (%)							COMMON SCAB RATING <sup>5</sup>	SED SCORE <sup>6</sup>	VINE VIGOR <sup>7</sup>	VINE MATURITY <sup>8</sup>	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR <sup>2</sup>	OTF CHIP SCORE <sup>3</sup>	HH	VD	IBS	BC						
MSV030-4	564	626	90	6	76	14	4	1.092	1.5	0	30	0	0	0.5	2.0	2.0	3.5		
<b>Lamoka</b>	<b>560</b>	<b>578</b>	<b>97</b>	<b>3</b>	<b>86</b>	<b>11</b>	<b>0</b>	<b>1.084</b>	<b>1.0</b>	<b>0</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>1.5</b>	<b>1.0</b>	<b>1.5</b>	<b>2.5</b>		
MSX540-4	555	634	88	11	83	5	1	1.090	1.0	0	10	0	0	0.5	1.0	1.5	3.5		
MSW485-2	553	628	88	11	79	9	1	1.085	1.0	0	0	0	0	1.0	0.0	2.0	3.0	alligator hide	
<b>Atlantic</b>	<b>548</b>	<b>599</b>	<b>91</b>	<b>8</b>	<b>76</b>	<b>15</b>	<b>1</b>	<b>1.084</b>	<b>1.0</b>	<b>40</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4.0</b>	<b>2.5</b>	<b>2.5</b>	<b>3.5</b>		
W8822-1	507	561	91	6	81	10	3	1.084	1.5	0	0	0	0	0.0	2.5	1.5	3.5	yellow flesh, heavy net skin	
MSR127-2	507	563	90	8	80	10	2	1.092	1.0	0	10	0	0	0.5	1.0	2.0	3.0	alligator hide	
Hodag	497	539	93	5	77	16	2	1.086	1.0	30	0	0	0	0.5	2.0	2.0	3.0		
NY157	450	513	85	14	73	12	1	1.084	1.0	50	0	0	10	2.0	0.5	2.0	2.5		
NY152	445	521	86	13	85	1	1	1.087	1.0	0	20	0	0	2.5	0.5	2.0	3.0		
MSZ052-11	442	591	75	4	53	22	21	1.080	1.0	0	0	0	0	0.5	0.5	1.5	4.0	sheep nose	
NDA081453CAB-2C	431	466	92	7	79	13	1	1.078	1.5	0	20	0	0	2.0	0.5	2.0	4.0		
ND7519-1	412	495	83	16	83	0	1	1.088	1.5	0	0	10	0	1.0	0.0	2.5	3.5		
<b>Snowden</b>	<b>393</b>	<b>462</b>	<b>86</b>	<b>14</b>	<b>81</b>	<b>5</b>	<b>0</b>	<b>1.088</b>	<b>1.0</b>	<b>0</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>1.5</b>	<b>1.0</b>	<b>2.0</b>	<b>3.5</b>		
AF4648-2	390	433	90	6	74	16	4	1.080	2.0	20	10	0	0	0.5	2.5	2.0	3.5		
<b>Pike</b>	<b>384</b>	<b>425</b>	<b>91</b>	<b>8</b>	<b>79</b>	<b>12</b>	<b>1</b>	<b>1.082</b>	<b>1.0</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>20</b>	<b>0.5</b>	<b>0.5</b>	<b>1.5</b>	<b>4.0</b>		
W9968-5	379	437	87	12	75	12	1	1.076	1.5	30	0	0	10	0.5	2.5	1.5	3.0	pear shape	
MSV358-3	370	428	86	11	83	3	3	1.088	1.0	0	0	0	0	1.5	0.5	1.5	2.5		
Manistee	344	382	90	9	82	8	1	1.086	1.0	0	20	0	0	2.0	1.0	2.5	2.5		
TX09396-1W	318	332	96	1	49	47	3	1.086	1.0	30	10	0	0	1.5	2.0	1.0	2.5		
Madison	298	392	77	19	74	3	4	1.098	2.0	40	0	10	0	1.0	1.0	3.0	2.5		
ND7799C-1	273	344	79	17	72	7	4	1.065	1.0	0	40	0	0	0.0	1.5	2.0	3.0		
<b>MEAN</b>	<b>437</b>	<b>498</b>	<b>88</b>	<b>10</b>	<b>76</b>	<b>11</b>	<b>3</b>	<b>1.085</b>	<b>1.2</b>	<b>11</b>	<b>10</b>	<b>1</b>	<b>2</b>	<b>1.2</b>	<b>1.2</b>	<b>1.9</b>	<b>3.2</b>		

<p><b><sup>1</sup>SIZE</b></p> <p>Bs: &lt; 1 7/8" As: 1 7/8" - 3 1/4" OV: &gt; 3 1/4" PO: Pickouts</p>	<p><b><sup>2</sup>SPECIFIC GRAVITY</b></p> <p>Data not replicated</p>	<p><b><sup>3</sup>OUT OF THE FIELD CHIP COLOR SCORE</b></p> <p><b>(SNAC Scale)</b></p> <p>Ratings: 1 - 5 1: Excellent 5: Poor</p>	<p><b><sup>4</sup>RAW TUBER QUALITY</b></p> <p><b>(percent of tubers out of 10)</b></p> <p>HH: Hollow Heart VD: Vascular Discoloration IBS: Internal Brown Spot BC: Brown Center</p>	<p><b><sup>5</sup>COMMON SCAB RATING</b></p> <p>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</p>	<p><b><sup>6</sup>SED (STEM END DEFECT) SCORE</b></p> <p>0: No stem end defect 1: Trace stem end defect 2: Slight stem end defect 3: Moderate stem end defect 4: Severe stem end defect 5: Extreme stem end defect</p>
<p><b><sup>7</sup>VINE VIGOR RATING</b></p> <p>Date: 6/15/17 Rating 1-5 1: Slow emergence 5: Early emergence (vigorous vines, some flowering)</p>	<p><b><sup>8</sup>VINE MATURITY RATING</b></p> <p>Date: 8/19/17 Rating 1-5 1: Early (vines completely dead) 5: Late (vigorous vines, some flowering)</p>	<p><b>FIELD DATA</b></p> <p>Planting date: 5/17/17 Vine Kill Date: 9/15/17 Harvest Date: 10/10/17 Days (planting to vine kill): 122 Days (planting to harvest): 146 GDD<sub>40</sub> MAWN Station: Allegan GDD<sub>40</sub> (planting to vine kill): 3315 Seed Spacing: 10"</p>			

# 2017 Chip Processing Potato Variety Trial

## Crawford Farms, Montcalm County, MI

Planting: 5/22 Vine Kill: 9/7 Harvest: 10/3  
GDD<sub>40</sub>: 2835

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>					RAW TUBER QUALITY <sup>3</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 <sup>2</sup>	HH	VD	IBS	BC				
MSR127-2	494	549	90	7	87	3	3	1.084	0	10	0	0	0.5	2.5	not taken	no comments
Manistee	473	506	93	7	90	3	0	1.080	0	0	0	0	3.0	3.0		
<b>Snowden</b>	<b>447</b>	<b>567</b>	<b>79</b>	<b>12</b>	<b>79</b>	<b>0</b>	<b>9</b>	<b>1.089</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2.0</b>	<b>2.5</b>		
Hodag	428	487	88	11	88	0	1	1.087	0	20	0	0	0.0	2.5		
NY152	424	504	84	15	84	0	1	1.081	0	0	0	0	2.5	2.0		
MSW485-2	395	527	75	24	73	2	1	1.091	50	0	0	0	2.0	2.0		
NY157	346	407	85	13	77	8	2	1.082	0	0	0	0	2.5	2.0		
<b>MEAN</b>	<b>430</b>	<b>507</b>	<b>85</b>	<b>13</b>	<b>83</b>	<b>2</b>	<b>2</b>	<b>1.085</b>	<b>7</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>1.8</b>	<b>2.4</b>		

**<sup>1</sup>SIZE**

Bs: < 1 7/8"  
As: 1 7/8" - 3 1/4"  
OV: > 3 1/4"  
PO: Pickouts

**<sup>2</sup>SPECIFIC GRAVITY**

Data not replicated

**<sup>3</sup>RAW TUBER QUALITY**

(percent of tubers out of 10)  
HH: Hollow Heart  
VD: Vascular Discoloration  
IBS: Internal Brown Spot  
BC: Brown Center

**<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>5</sup>VINE VIGOR RATING**

Date: 6/16/17  
Rating 1-5  
1: Slow emergence  
5: Early emergence (vigorous vines, some flowering)

**<sup>6</sup>VINE MATURITY RATING**

Date: Not taken  
Rating 1-5  
1: Early (vines completely dead)  
5: Late (vigorous vines, some flowering)

**FIELD DATA**

Planting Date 5/22/17  
Vine Kill Date 9/7/17  
Harvest Date 10/3/17  
Days (planting to vine kill) 109  
Days (planting to harvest) 134  
GDD<sub>40</sub> MAWN Station Entrican  
GDD<sub>40</sub> 2835  
Seed Spacing 10"

# 2017 Chip Processing Potato Variety Trial: Set #1

## Crooks Farms, Montcalm County, MI

Planting: 5/10 Vine Kill: 8/28 Harvest: 9/12  
GDD<sub>40</sub>: 2853

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>						RAW TUBER QUALITY <sup>4</sup> (%)						COMMON SCAB RATING <sup>5</sup>	SED SCORE <sup>6</sup>	VINE VIGOR <sup>7</sup>	VINE MATURITY <sup>8</sup>	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR <sup>2</sup>	OTF CHIP SCORE <sup>3</sup>	HH	VD	IBS	BC						
NY152	833	892	93	5	69	24	2	1.075	1.0	0	20	0	0	0.5	1.0	4.0	not taken		
MSV313-2	745	784	95	2	46	49	3	1.079	1.5	0	20	0	0	0.5	1.5	3.0		skinning	
W8822-1	612	654	93	7	78	15	0	1.075	1.0	0	20	0	0	1.5	1.0	4.0		heavy netted skin, light yellow flesh	
W9968-5	608	716	85	15	79	6	0	1.082	1.5	0	40	20	0	1.5	3.0	3.5			
ND7519-1	537	595	90	8	85	5	2	1.078	1.0	10	0	10	0	0.5	0.5	4.0			
TX09396-1W	384	443	86	14	59	27	0	1.078	1.0	0	60	10	0	2.0	0.5	3.0		skinning	
<b>Atlantic</b>	<b>379</b>	<b>385</b>	<b>99</b>	<b>1</b>	<b>82</b>	<b>17</b>	<b>0</b>	<b>1.078</b>	<b>1.0</b>	<b>0</b>	<b>20</b>	<b>10</b>	<b>0</b>	<b>0.0</b>	<b>2.0</b>	<b>3.5</b>			
AF4648-2	356	429	83	11	81	2	6	1.077	1.0	0	30	0	0	1.0	2.0	3.5			
ND7799C-1	338	367	92	7	76	16	1	1.062	1.5	20	30	10	0	2.0	2.0	3.5		skinning	
NDA081453CAB-2C	331	402	83	11	67	16	6	1.067	1.0	0	20	0	0	0.5	1.5	4.0			
AF5040-8	298	330	90	10	90	0	0	1.074	1.5	0	20	0	0	0.5	0.5	4.0			
<b>MEAN</b>	<b>493</b>	<b>545</b>	<b>90</b>	<b>8</b>	<b>74</b>	<b>16</b>	<b>2</b>	<b>1.075</b>	<b>1.2</b>	<b>3</b>	<b>25</b>	<b>5</b>	<b>0</b>	<b>1.0</b>	<b>1.4</b>	<b>3.6</b>			

**<sup>1</sup>SIZE**

Bs: < 1 7/8"  
As: 1 7/8" - 3 1/4"  
OV: > 3 1/4"  
PO: Pickouts

**<sup>2</sup>SPECIFIC GRAVITY**

Data not replicated

**<sup>3</sup>OUT OF THE FIELD CHIP COLOR SCORE**

(SNAC Scale)  
Ratings: 1 - 5  
1: Excellent  
5: Poor

**<sup>4</sup>RAW TUBER QUALITY**

(percent of tubers out of 10)  
HH: Hollow Heart  
VD: Vascular Discoloration  
IBS: Internal Brown Spot  
BC: Brown Center

**<sup>5</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>6</sup>SED(STEM END DEFECT) SCORE**

0: No stem end defect  
1: Trace stem end defect  
2: Slight stem end defect  
3: Moderate stem end defect  
4: Severe stem end defect  
5: Extreme stem end defect

**<sup>7</sup>VINE VIGOR RATING**

Date: 6/16/17  
Rating 1-5  
1: Slow emergence  
5: Early emergence (vigorous vines, some flowering)

**<sup>8</sup>VINE MATURITY RATING**

Date: Not taken  
Rating 1-5  
1: Early (vines completely dead)  
5: Late (vigorous vines, some flowering)

**FIELD DATA**

Planting date 5/10/17  
Vine Kill Date 8/28/17  
Harvest Date 9/12/17  
Days (planting to vine kill) 110  
Days (planting to harvest) 126  
GDD<sub>40</sub> MAWN Station Entrican  
GDD<sub>40</sub> 2853  
Seed Spacing 10"

# 2017 Chip Processing Potato Variety Trial: Set #2

## Crooks Farms, Montcalm County, MI

Planting: 5/18 Vine Kill: 9/1 Harvest: 9/28  
GDD<sub>40</sub>: 2781

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>					RAW TUBER QUALITY <sup>4</sup> (%)							COMMON SCAB RATING <sup>5</sup>	SED SCORE <sup>6</sup>	VINE VIGOR <sup>7</sup>	VINE MATURITY <sup>8</sup>	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR <sup>2</sup>	OTF CHIP SCORE <sup>3</sup>	HH	VD	IBS	BC						
MSW485-2	639	731	88	7	84	4	5	1.084	1.5	10	20	10	0	0.5	3.0	3.5	not taken		
MSX540-4	560	613	91	7	90	1	2	1.084	1.5	0	0	0	0	2.0	2.0	4.0			
W9968-5	532	608	88	8	80	8	4	1.087	2.0	0	20	0	0	1.0	3.0	3.0			
MSR127-2	508	581	88	6	78	10	6	1.084	1.0	0	0	0	0	1.0	1.0	3.0			
NY152	506	610	83	17	82	1	0	1.083	1.5	0	0	0	0	1.5	1.0	3.5			
MSV030-4	492	571	87	12	80	7	2	1.086	1.0	0	10	0	0	1.0	1.0	2.5			
MSZ052-11	411	491	84	12	80	4	4	1.077	2.0	0	10	0	0	1.0	1.0	3.5		deep apical eyes	
ND7519-1	398	480	83	16	82	1	1	1.081	1.5	0	20	0	0	1.0	1.0	4.0			
Hodag	376	418	90	8	72	18	3	1.069	1.0	0	40	0	0	0.5	1.5	4.0			
<b>Lamoka</b>	<b>349</b>	<b>362</b>	<b>97</b>	<b>3</b>	<b>77</b>	<b>20</b>	<b>1</b>	<b>1.079</b>	<b>1.0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2.0</b>	<b>1.0</b>	<b>3.5</b>		chip blistering	
MSV358-3	239	314	76	18	76	0	6	1.075	1.5	0	0	0	0	0.0	2.0	3.0			
<b>MEAN</b>	<b>455</b>	<b>525</b>	<b>87</b>	<b>10</b>	<b>80</b>	<b>7</b>	<b>3</b>	<b>1.081</b>	<b>1.4</b>	<b>1</b>	<b>11</b>	<b>1</b>	<b>0</b>	<b>1.0</b>	<b>1.6</b>	<b>3.4</b>			

**<sup>1</sup>SIZE**

Bs: < 1 7/8"  
As: 1 7/8" - 3 1/4"  
OV: > 3 1/4"  
PO: Pickouts

**<sup>2</sup>SPECIFIC GRAVITY**

Data not replicated

**<sup>3</sup>OUT OF THE FIELD CHIP COLOR SCORE**

(SNAC Scale)  
Ratings: 1 - 5  
1: Excellent  
5: Poor

**<sup>4</sup>RAW TUBER QUALITY**

(percent of tubers out of 10)  
HH: Hollow Heart  
VD: Vascular Discoloration  
IBS: Internal Brown Spot  
BC: Brown Center

**<sup>5</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>6</sup>SED(STEM END DEFECT) SCORE**

0: No stem end defect  
1: Trace stem end defect  
2: Slight stem end defect  
3: Moderate stem end defect  
4: Severe stem end defect  
5: Extreme stem end defect

**<sup>7</sup>VINE VIGOR RATING**

Date: 6/16/17  
Rating 1-5  
1: Slow emergence  
5: Early emergence (vigorous vines, some flowering)

**<sup>8</sup>VINE MATURITY RATING**

Date: Not taken  
Rating 1-5  
1: Early (vines completely dead)  
5: Late (vigorous vines, some flowering)

**FIELD DATA**

Planting date 5/18/17  
Vine Kill Date 9/1/17  
Harvest Date 9/28/17  
Days (planting to vine kill) 106  
Days (planting to harvest) 134  
GDD<sub>40</sub> MAWN Station Entrican  
GDD<sub>40</sub> 2781  
Seed Spacing 10"



# 2017 Chip Processing Potato Variety Trial: Set #3

## Crooks Farms, Montcalm County, MI

Planting: 5/22 Vine Kill: 9/11 Harvest: 10/9  
GDD<sub>40</sub>: 2893

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>						RAW TUBER QUALITY <sup>4</sup> (%)						COMMON SCAB RATING <sup>5</sup>	SED SCORE <sup>6</sup>	VINE VIGOR <sup>7</sup>	VINE MATURITY <sup>8</sup>	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR <sup>2</sup>	OTF CHIP SCORE <sup>3</sup>	HH	VD	IBS	BC						
MSW485-2	694	732	95	5	92	3	0	1.096	1.0	10	0	0	0	2.0	3.0	4.0	4.5	no comments	
W9968-5	636	681	93	2	92	1	5	1.093	1.5	0	0	0	0	0.5	3.0	3.5	3		
MSR127-2	597	622	96	3	95	1	1	1.094	1.0	0	10	0	0	0.5	2.0	4.0	4		
Hodag	552	602	91	4	82	9	5	1.086	1.0	20	10	0	0	0.5	1.5	4.5	3		
MSV030-4	525	538	98	2	98	0	0	1.095	1.5	0	10	0	0	2.0	1.5	3.5	2.5		
NY152	500	543	92	6	91	1	2	1.084	1.0	0	0	0	0	2.0	0.5	4.0	2.5		
ND7519-1	462	505	92	5	87	5	3	1.093	1.5	10	40	20	0	0.5	2.0	4.0	2		
MSZ052-11	408	456	89	5	84	5	6	1.079	1.5	0	0	0	0	0.5	1.0	4.0	4		
MSV358-3	387	416	93	3	90	3	4	1.085	1.0	10	0	0	0	2.0	1.0	4.0	2		
<b>Lamoka</b>	<b>350</b>	<b>403</b>	<b>87</b>	<b>3</b>	<b>79</b>	<b>8</b>	<b>10</b>	<b>1.086</b>	<b>2.0</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1.0</b>	<b>3.0</b>	<b>5.0</b>	<b>2</b>		
<b>MEAN</b>	<b>511</b>	<b>550</b>	<b>93</b>	<b>4</b>	<b>89</b>	<b>4</b>	<b>4</b>	<b>1.089</b>	<b>1.3</b>	<b>7</b>	<b>7</b>	<b>2</b>	<b>0</b>	<b>1.2</b>	<b>1.9</b>	<b>4.1</b>	<b>3.0</b>		

**1SIZE**

Bs: < 1 7/8"  
As: 1 7/8" - 3 1/4"  
OV: > 3 1/4"  
PO: Pickouts

**2SPECIFIC GRAVITY**  
Data not replicated

**3OUT OF THE FIELD CHIP COLOR SCORE (SNAC Scale)**

Ratings: 1 - 5  
1: Excellent  
5: Poor

**4RAW TUBER QUALITY (percent of tubers out of 10)**

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

**5COMMON 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

**6SED(STEM END DEFECT) SCORE**

0: No stem end defect  
1: Trace stem end defect  
2: Slight stem end defect  
3: Moderate stem end defect  
4: Severe stem end defect  
5: Extreme stem end defect

**7VINE VIGOR RATING**

Date: 6/27/17  
Rating 1-5  
1: Slow emergence  
5: Early emergence (vigorous vines, some flowering)

**8VINE MATURITY RATING**

Date: 9/6/17  
Rating 1-5  
1: Early (vines completely dead)  
5: Late (vigorous vines, some flowering)

**FIELD DATA**

Planting date 5/22/17  
Vine Kill Date 9/11/17  
Harvest Date 10/9/17  
Days (planting to vine kill) 112  
Days (planting to harvest) 141  
GDD<sub>40</sub> MAWN Station Entrican  
GDD<sub>40</sub> (planting to vine kill) 2893  
Seed Spacing 10"

# 2017 Chip Processing Potato Variety Trial: Set #4

## Crooks Farms, Montcalm County MI

Planting: 6/2 Vine Kill: 9/21 Harvest: 10/18  
GDD<sub>40</sub>: 2958

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>						RAW TUBER QUALITY <sup>4</sup> (%)						COMMON SCAB RATING <sup>5</sup>	SED SCORE <sup>6</sup>	VINE VIGOR <sup>7</sup>	VINE MATURITY <sup>8</sup>	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR <sup>2</sup>	OTF CHIP SCORE <sup>3</sup>	HH	VD	IBS	BC						
W9968-5	737	793	93	5	86	7	2	1.091	1.5	20	0	0	0	0.0	2.5	2.0	2.5		
MSW485-2	641	664	97	3	68	28	1	1.088	1.5	10	0	0	0	0.0	3.5	2.5	4.0		
MSR127-2	555	612	91	4	75	16	6	1.097	1.0	30	10	0	0	0.5	0.5	2.5	4.5		
NY152	536	590	91	6	89	2	3	1.087	1.0	10	0	0	10	0.5	1.5	2.5	3.0		
Hodag	527	550	96	1	45	51	3	1.088	1.0	20	20	0	0	0.5	0.5	3.0	2.0		
MSZ052-11	517	573	90	2	72	18	8	1.081	1.5	20	0	0	0	0.0	1.5	1.5	4.0	sheep nose	
MSX540-4	496	532	93	3	79	14	4	1.096	1.0	0	0	0	0	0.5	1.5	1.5	4.0		
MSV030-4	420	450	93	7	93	0	0	1.097	1.5	0	0	0	0	2.0	2.0	2.5	4.5		
MSV358-3	325	348	94	6	94	0	1	1.077	1.5	0	20	0	0	1.0	1.0	2.0	1.5		
ND7519-1	272	319	85	13	83	2	2	1.084	1.5	0	20	0	0	1.0	1.5	2.5	4.0		
<b>MEAN</b>	<b>503</b>	<b>543</b>	<b>92</b>	<b>5</b>	<b>78</b>	<b>14</b>	<b>3</b>	<b>1.089</b>	<b>1.3</b>	<b>11</b>	<b>7</b>	<b>0</b>	<b>1</b>	<b>0.6</b>	<b>1.6</b>	<b>2.3</b>	<b>3.3</b>		

**<sup>1</sup>SIZE**

Bs: < 1 7/8"  
As: 1 7/8" - 3 1/4"  
OV: > 3 1/4"  
PO: Pickouts

**<sup>2</sup>SPECIFIC GRAVITY**

Data not replicated

**<sup>3</sup>OUT OF THE FIELD CHIP COLOR SCORE**

(SNAC Scale)  
Ratings: 1 - 5  
1: Excellent  
5: Poor

**<sup>4</sup>RAW TUBER QUALITY**

(percent of tubers out of 10)  
HH: Hollow Heart  
VD: Vascular Discoloration  
IBS: Internal Brown Spot  
BC: Brown Center

**<sup>5</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>6</sup>SED(STEM END DEFECT) SCORE**

0: No stem end defect  
1: Trace stem end defect  
2: Slight stem end defect  
3: Moderate stem end defect  
4: Severe stem end defect  
5: Extreme stem end defect

**<sup>7</sup>VINE VIGOR RATING**

Date: 7/27/17  
Rating 1-5  
1: Slow emergence  
5: Early emergence (vigorous vines, some flowering)

**<sup>8</sup>VINE MATURITY RATING**

Date: 9/6/17  
Rating 1-5  
1: Early (vines completely dead)  
5: Late (vigorous vines, some flowering)

**FIELD DATA**

Planting date 6/2/17  
Vine Kill Date 9/21/17  
Harvest Date 10/18/17  
Days (planting to vine kill) 111  
Days (planting to harvest) 131  
GDD<sub>40</sub> MAWN Station Entrican  
GDD<sub>40</sub> 2958  
Seed Spacing 10"

# 2017 Chip Processing Variety Trial

## Johnson's Farm, Bay County, MI

Planting: 5/3 Vine Kill: 9/15 Harvest: 9/30  
GDD<sub>40</sub>: 3453

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>					RAW TUBER QUALITY <sup>4</sup> (%)						COMMON SCAB RATING <sup>5</sup>	SED SCORE <sup>6</sup>	VINE VIGOR <sup>7</sup>	VINE MATURITY <sup>8</sup>	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR <sup>2</sup>	OTF CHIP SCORE <sup>3</sup>	HH	VD	IBS	BC					
Hodag	444	521	85	9	81	4	6	1.090	1.0	0	20	10	0	0.5	1.0	5.0	1.5	
MSW485-2	409	577	71	26	70	1	3	1.093	1.0	0	10	0	0	0.5	1.5	2.0	2.5	alligator hide
<b>Snowden</b>	<b>400</b>	<b>511</b>	<b>78</b>	<b>20</b>	<b>77</b>	<b>1</b>	<b>2</b>	<b>1.088</b>	<b>1.0</b>	<b>10</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>1.0</b>	<b>0.5</b>	<b>5.0</b>	<b>1.0</b>	
MSR127-2	391	570	69	18	66	3	13	1.099	1.0	0	0	0	0	1.0	0.5	5.0	2.5	
MSX540-4	349	516	68	29	68	0	3	1.102	1.0	0	30	0	0	0.5	0.5	4.0	2.0	
Manistee	319	412	77	21	74	3	2	1.083	1.5	0	10	0	0	1.0	1.0	5.0	1.0	
NY152	296	462	64	32	64	0	4	1.085	1.5	0	20	0	0	1.0	0.5	3.5	2.5	
<b>MEAN</b>	<b>373</b>	<b>510</b>	<b>73</b>	<b>22</b>	<b>71</b>	<b>2</b>	<b>5</b>	<b>1.091</b>	<b>1.1</b>	<b>1</b>	<b>14</b>	<b>1</b>	<b>0</b>	<b>0.8</b>	<b>0.8</b>	<b>4.2</b>	<b>1.9</b>	

<b><u><sup>1</sup>SIZE</u></b>	<b><u><sup>2</sup>SPECIFIC GRAVITY</u></b>	<b><u><sup>3</sup>OUT OF THE FIELD CHIP COLOR SCORE</u></b>	<b><u><sup>4</sup>RAW TUBER QUALITY</u></b>	<b><u><sup>5</sup>COMMON SCAB RATING</u></b>	<b><u><sup>6</sup>SED(STEM END DEFECT) SCORE</u></b>
Bs: < 1 7/8" As: 1 7/8" - 3 1/4" OV: > 3 1/4" PO: Pickouts	Data not replicated	(SNAC Scale) Ratings: 1 - 5 1: Excellent 5: Poor	(percent of tubers out of 10) HH: Hollow Heart VD: Vascular Discoloration IBS: Internal Brown Spot BC: Brown Center	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	0: No stem end defect 1: Trace stem end defect 2: Slight stem end defect 3: Moderate stem end defect 4: Severe stem end defect 5: Extreme stem end defect
<b><u><sup>7</sup>VINE VIGOR RATING</u></b>		<b><u><sup>8</sup>VINE MATURITY RATING</u></b>	<b><u>FIELD DATA</u></b>		
Date: 6/15/17 Rating 1-5 1: Slow emergence 5: Early emergence (vigorous vines, some flowering)		Date: 8/29/17 Rating 1-5 1: Early (vines completely dead) 5: Late (vigorous vines, some flowering)	Planting date Vine Kill Date Harvest Date Days (planting to vine kill) Days (planting to harvest) GDD <sub>40</sub> MAWN Station GDD <sub>40</sub> (planting to vine kill) Seed Spacing	5/3/17 9/15/17 9/30/17 135 150 Munger 3453 10"	

# 2017 Early Bulking Chip Trial

## Lennard Ag Co, St. Joseph County, MI

Planting: 4/14 Vine Kill: 8/24 Harvest: 9/6  
GDD<sub>40</sub>: 3437

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>					RAW TUBER QUALITY <sup>4</sup> (%)							COMMON SCAB RATING <sup>5</sup>	SED SCORE <sup>6</sup>	VINE VIGOR <sup>7</sup>	VINE MATURITY <sup>8</sup>	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR <sup>2</sup>	OTF CHIP SCORE <sup>3</sup>	HH	VD	IBS	BC						
AF5040-8	831	879	95	5	92	3	0	1.094	1.5	0	10	0	0	1.0	3.5	4.5	2.5	large overall tuber size, few b size tubers	
ND7519-1	684	746	92	8	90	2	0	1.087	1.5	0	0	20	0	1.0	2.0	5.0	2.5		
MSV313-2	680	701	97	2	34	63	1	1.084	2.0	0	20	0	0	1.0	2.0	3.5	3.5	very large tuber size	
ND7799C-1	661	755	88	5	62	26	7	1.068	1.5	0	30	0	0	0.5	1.5	5.0	2.5	trace alligator hide, heat sprouts and knobs in pickouts	
<b>Atlantic</b>	<b>643</b>	<b>657</b>	<b>97</b>	<b>3</b>	<b>84</b>	<b>13</b>	<b>0</b>	<b>1.090</b>	<b>3.0</b>	<b>0</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>1.5</b>	<b>2.5</b>	<b>5.0</b>	<b>3.0</b>	<b>alligator hide</b>	
NDA081453CAB-2C	576	640	90	8	83	7	2	1.086	1.5	0	0	50	10	1.0	3.0	5.0	2.5	round uniform tuber type	
AF4648-2	570	619	92	7	86	6	1	1.083	1.0	0	0	0	0	0.5	0.5	4.0	3.0	oval tuber type, bright appearance	
TX09396-1W	535	566	94	3	28	66	3	1.088	1.0	20	10	40	0	1.5	0.5	2.0	4.0	knobs and misshapen tubers in pickouts	
W9968-5	525	620	85	15	85	0	0	1.095	1.5	0	10	20	0	0.5	1.0	3.5	4.0	oval to oblong tuber type, heavy russeted skin	
W8822-1	473	572	83	14	79	4	3	1.080	1.0	0	10	0	0	1.0	1.0	4.0	3.0	heavy netted skin, pointed pick outs	
<b>MEAN</b>	<b>618</b>	<b>675</b>	<b>91</b>	<b>7</b>	<b>72</b>	<b>19</b>	<b>2</b>	<b>1.086</b>	<b>1.6</b>	<b>2</b>	<b>12</b>	<b>13</b>	<b>1</b>	<b>1.0</b>	<b>1.8</b>	<b>4.2</b>	<b>3.1</b>		

<b><sup>1</sup>SIZE</b>	<b><sup>2</sup>SPECIFIC GRAVITY</b>	<b><sup>3</sup>OUT OF THE FIELD CHIP COLOR SCORE</b>	<b><sup>4</sup>RAW TUBER QUALITY</b>	<b><sup>5</sup>COMMON SCAB RATING</b>	<b><sup>6</sup>SED (STEM END DEFECT) SCORE</b>
Bs: < 1 7/8"	Data not replicated	(SNAC Scale)	(percent of tubers out of 10)	0.0: Complete absence of surface or pitted lesions	0: No stem end defect
As: 1 7/8" - 3 1/4"		Ratings: 1 - 5	HH: Hollow Heart	1.0: Presence of surface lesions	1: Trace stem end defect
OV: > 3 1/4"		1: Excellent	VD: Vascular Discoloration	2.0: Pitted lesions on tubers, though coverage is low	2: Slight stem end defect
PO: Pickouts		5: Poor	IBS: Internal Brown Spot	3.0: Pitted lesions common on tubers	3: Moderate stem end defect
			BC: Brown Center	4.0: Pitted lesions severe on tubers	4: Severe stem end defect
				5.0: More than 50% of tuber surface area covered in pitted lesions	5: Extreme stem end defect
<b><sup>7</sup>VINE VIGOR RATING</b>	<b><sup>8</sup>VINE MATURITY RATING</b>	<b>FIELD DATA</b>			
Date: 6/6/17	Date: 8/15/17	Planting date	4/14/17		
Rating 1-5	Rating 1-5	Vine Kill Date	8/24/17		
1: Slow emergence	1: Early (vines completely dead)	Harvest Date	9/25/17		
5: Early emergence (vigorous vines, some flowering)	5: Late (vigorous vines, some flowering)	Days (planting to vine kill)	132		
		Days (planting to harvest)	145		
		GDD <sub>40</sub> MAWN Station	Constantine		
		GDD <sub>40</sub> (planting to vine kill)	3437		
		Seed Spacing	10"		

# 2017 Chip Processing Potato Variety Trial

## Lennard Ag Co, St. Joseph County, MI

Planting: 4/14 Vine Kill: 8/26 Harvest: 9/15  
GDD<sub>40</sub>: 3475

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>					RAW TUBER QUALITY <sup>4</sup> (%)							COMMON SCAB RATING <sup>5</sup>	SED SCORE <sup>6</sup>	VINE VIGOR <sup>7</sup>	VINE MATURITY <sup>8</sup>	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR <sup>2</sup>	OTF CHIP SCORE <sup>3</sup>	HH	VD	IBS	BC						
Snowden	720	759	95	3	81	14	2	1.086	1.0	0	0	0	0	1.0	2.0	4.0	3.0		
MSR127-2	629	667	94	5	83	11	1	1.080	1.5	0	10	0	0	1.0	3.5	5.0	3.0		
MSZ052-11	601	657	91	8	74	17	1	1.074	1.0	0	20	0	0	0.5	1.0	3.0	3.0		
NY162	599	631	95	4	89	6	1	1.084	1.0	0	20	0	10	1.0	1.5	2.5	2.0		
W9968-5	574	616	93	6	89	4	1	1.084	2.0	0	0	10	20	0.5	3.0	4.0	3.0		
Lamoka	557	586	95	5	93	2	0	1.078	1.0	0	0	0	0	1.5	2.5	5.0	2.5		
MSX540-4	537	602	89	10	89	0	1	1.084	1.5	0	0	0	0	1.5	1.5	4.0	3.0	flattened round tuber type, average size profile	
TX09396-1W	520	535	97	1	61	36	2	1.083	1.0	0	0	80	0	1.0	2.0	2.0	3.0	very large round tuber type	
ND7799C-1	489	523	93	6	81	12	1	1.063	1.0	0	10	0	0	0.5	1.0	5.0	2.0	bright tuber appearance	
Manistee	475	505	94	6	83	11	0	1.076	1.0	0	0	0	0	0.5	0.5	3.0	3.0	flattened tuber type	
MSV030-4	428	492	87	13	86	1	0	1.078	1.5	0	50	0	0	1.0	2.0	5.0	2.0		
<b>MEAN</b>	<b>557</b>	<b>597</b>	<b>93</b>	<b>6</b>	<b>83</b>	<b>10</b>	<b>1</b>	<b>1.079</b>	<b>1.2</b>	<b>0</b>	<b>10</b>	<b>8</b>	<b>3</b>	<b>0.9</b>	<b>1.9</b>	<b>3.9</b>	<b>2.7</b>		

<sup>1</sup>**SIZE**

Bs: < 1 7/8"  
As: 1 7/8" - 3 1/4"  
OV: > 3 1/4"  
PO: Pickouts

<sup>2</sup>**SPECIFIC GRAVITY**

Data not replicated

<sup>3</sup>**OUT OF THE FIELD CHIP COLOR SCORE (SNAC Scale)**

Ratings: 1 - 5  
1: Excellent  
5: Poor

<sup>4</sup>**RAW TUBER QUALITY (percent of tubers out of 10)**

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

<sup>5</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>6</sup>**SED(STEM END DEFECT) SCORE**

0: No stem end defect  
1: Trace stem end defect  
2: Slight stem end defect  
3: Moderate stem end defect  
4: Severe stem end defect  
5: Extreme stem end defect

<sup>7</sup>**VINE VIGOR RATING**

Date: 6/6/17  
Rating 1-5  
1: Slow emergence  
5: Early emergence (vigorous vines, some flowering)

<sup>8</sup>**VINE MATURITY RATING**

Date: 8/15/17  
Rating 1-5  
1: Early (vines completely dead)  
5: Late (vigorous vines, some flowering)

**FIELD DATA**

Planting date 4/14/17  
Vine Kill Date 8/26/17  
Harvest Date 9/15/17  
Days (planting to vine kill) 134  
Days (planting to harvest) 154  
GDD<sub>40</sub> MAWN Station Constantine  
GDD<sub>40</sub> (planting to vine kill) 3475  
Seed Spacing 10"

# 2017 Chip Processing Potato Variety Trial

## Main Farms, Montcalm Co.

Planting: 5/10 Vine Kill:9/1 Harvest: 9/29  
GDD<sub>40</sub>: 2940

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>					RAW TUBER QUALITY <sup>4</sup> (%)							COMMON SCAB RATING <sup>5</sup>	SED SCORE <sup>6</sup>	VINE VIGOR <sup>7</sup>	VINE MATURITY <sup>8</sup>	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR <sup>2</sup>	OTF CHIP SCORE <sup>3</sup>	HH	VD	IBS	BC						
MSX540-4	664	695	96	4	82	14	0	1.087	1.0	0	10	10	0	0.0	0.5	4.0	2.5		
Pinnacle	547	621	88	12	87	1	0	1.094	1.0	10	0	0	0	0.5	1.0	4.0	2.0		
NY152	518	635	81	14	78	3	5	1.096	1.0	0	10	0	0	1.0	0.5	4.0	1.5		
NY162	501	572	88	11	79	9	1	1.087	1.0	10	0	0	0	0.5	0.0	3.5	1.0	very bright chip color	
MSR127-2	490	603	82	11	75	7	7	1.092	1.0	10	0	10	0	0.5	1.0	4.0	2.0		
Hodag	488	555	88	9	80	8	3	1.093	1.0	0	10	0	20	0.5	0.5	4.0	2.5		
NDA081453CAB-2C	474	527	90	7	77	13	3	1.084	1.0	0	10	0	10	0.0	0.5	4.5	1.0		
Mega Chip	466	558	84	5	63	21	11	1.091	1.0	0	20	0	0	0.0	1.5	4.5	2.0		
<b>Snowden</b>	<b>464</b>	<b>510</b>	<b>91</b>	<b>9</b>	<b>86</b>	<b>5</b>	<b>0</b>	<b>1.083</b>	<b>1.0</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.5</b>	<b>0.0</b>	<b>4.0</b>	<b>1.5</b>		
MSV030-4	448	544	83	10	78	5	7	1.095	1.0	0	0	0	0	1.0	0.5	4.0	2.0		
MSZ052-11	433	492	89	11	73	16	0	1.074	1.0	0	10	0	0	0.5	1.0	4.0	3.0		
ND7519-1	416	458	91	9	85	6	0	1.093	1.0	10	0	20	20	0.5	0.0	4.5	1.5		
TX09396-1W	415	472	88	5	51	37	7	1.094	1.0	80	0	0	0	0.5	0.0	3.5	2.0		
ND7799C-1	408	466	87	9	70	17	4	1.069	1.0	0	0	0	0	0.5	0.5	4.5	1.0		
W9968-5	390	464	84	13	73	11	3	1.089	1.0	0	0	0	0	0.5	3.5	4.0	2.5		
W8822-1	382	469	82	16	79	3	2	1.077	1.5	0	0	0	0	0.5	1.5	3.5	1.0	light yellow flesh	
MSV358-3	381	431	88	8	80	8	4	1.076	1.0	0	0	0	0	1.0	0.0	4.5	1.0	very nice chip color and quality	
<b>Pike</b>	<b>366</b>	<b>410</b>	<b>89</b>	<b>8</b>	<b>76</b>	<b>13</b>	<b>3</b>	<b>1.087</b>	<b>1.0</b>	<b>0</b>	<b>0</b>	<b>50</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>	<b>4.0</b>	<b>0.0</b>		
Madison	350	410	85	10	76	9	5	1.097	1.5	0	0	0	0	1.0	0.5	4.0	1.0		
Saginaw Chipper	320	382	84	16	84	0	0	1.083	1.5	0	20	0	0	0.0	1.0	5.0	2.5		
MSW485-2	291	421	69	29	68	1	2	1.094	1.0	0	20	10	0	1.5	2.5	4.0	2.5		
AF4648-2	268	359	74	20	73	1	6	1.082	1.0	0	0	10	0	0.5	0.5	4.5	2.0		
Manistee	266	314	85	15	79	6	0	1.071	1.0	0	0	0	0	0.0	0.0	4.5	2.0		
<b>Lamoka</b>	<b>259</b>	<b>348</b>	<b>75</b>	<b>13</b>	<b>72</b>	<b>3</b>	<b>12</b>	<b>1.094</b>	<b>1.0</b>	<b>0</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>1.0</b>	<b>0.0</b>	<b>4.0</b>	<b>2.0</b>		
<b>MEAN</b>	<b>293</b>	<b>372</b>	<b>79</b>	<b>17</b>	<b>75</b>	<b>3</b>	<b>4</b>	<b>1.087</b>	<b>1.2</b>	<b>0</b>	<b>10</b>	<b>3</b>	<b>0</b>	<b>0.7</b>	<b>0.7</b>	<b>4.3</b>	<b>2.0</b>		

<sup>1</sup>SIZE

Bs: < 1 7/8"  
As: 1 7/8" - 3 1/4"  
OV: > 3 1/4"  
PO: Pickouts

<sup>2</sup>SPECIFIC GRAVITY

Data not replicated

<sup>3</sup>OUT OF THE FIELD CHIP COLOR SCORE (SNAC Scale)

Ratings: 1 - 5  
1: Excellent  
5: Poor

<sup>4</sup>RAW TUBER QUALITY (percent of tubers out of 10)

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

<sup>5</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>6</sup>SED (STEM END DEFECT) SCORE

0: No stem end defect  
1: Trace stem end defect  
2: Slight stem end defect  
3: Moderate stem end defect  
4: Severe stem end defect  
5: Extreme stem end defect

<sup>7</sup>VINE VIGOR RATING

Date: 6/16/17  
Rating 1-5  
1: Slow emergence  
5: Early emergence (vigorous vines, some flowering)

<sup>8</sup>VINE MATURITY RATING

Date: 8/30/17  
Rating 1-5  
1: Early (vines completely dead)  
5: Late (vigorous vines, some flowering)

FIELD DATA

Planting date 5/10/17  
Vine Kill Date 9/1/17  
Harvest Date 9/29/17  
Days (planting to vine kill) 114  
Days (planting to harvest) 142  
GDD<sub>40</sub> MAWN Station Entrican  
GDD<sub>40</sub> (planting to vine kill) 2940  
Seed Spacing 10"

# 2017 MPIC Box Bin Chip Potato Variety Trial

## MSU Montcalm Research Center, Montcalm County, MI

Planting: 5/8 Vine Kill: 9/13 Harvest: 10/3  
GDD<sub>40</sub>: 3167

LINE*	CWT/A		PERCENT OF TOTAL <sup>1</sup>						RAW TUBER QUALITY <sup>4</sup> (%)						COMMON SCAB RATING <sup>5</sup>	VINE VIGOR <sup>6</sup>	VINE MATURITY <sup>7</sup>	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR <sup>2</sup>	OTF CHIP SCORE <sup>3</sup>	HH	VD	IBS	BC					
MSZ219-13	672	706	95	5	84	11	0	1.084	1.0	0	0	0	0	0.0	3.5	3.5		
MSX111-3	530	579	91	7	73	18	2	1.087	1.0	10	20	20	20	0.5	3.5	3.0		
NY152	519	564	92	7	90	2	1	1.094	1.0	0	10	0	0	0.0	4.0	3.0		
MSR127-2 12"	464	516	90	9	88	2	1	1.081	1.0	0	10	0	0	0.5	4.0	4.0		
MSR127-2 (Low N) 12"	452	511	88	10	84	4	2	1.087	1.0	0	20	0	0	0.0	4.0	4.0		
TX09396-1W	450	500	90	7	63	27	3	1.095	1.0	0	0	10	0	0.0	3.0	2.5		
Snowden (Low N)	448	514	87	9	85	2	4	1.094	1.0	0	0	30	0	0.0	4.0	2.5		
MSR127-2 10"	445	509	88	11	86	2	1	1.085	1.0	0	20	0	0	0.0	4.0	4.0		
<b>Lamoka</b>	<b>438</b>	<b>499</b>	<b>88</b>	<b>12</b>	<b>88</b>	<b>0</b>	<b>0</b>	<b>1.091</b>	<b>1.0</b>	<b>0</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>4.0</b>	<b>2.0</b>		
<b>Snowden</b>	<b>436</b>	<b>512</b>	<b>85</b>	<b>13</b>	<b>84</b>	<b>1</b>	<b>2</b>	<b>1.093</b>	<b>1.0</b>	<b>0</b>	<b>50</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>4.0</b>	<b>2.5</b>		
MSR127-2 (Low N) 10"	431	489	88	11	82	6	1	1.092	1.0	0	10	0	0	0.0	4.0	4.0		
Hodag	429	504	86	13	84	2	1	1.091	1.0	0	20	0	0	0.0	4.0	3.0		
AF4648-2	418	458	91	7	87	4	2	1.087	1.0	0	0	0	0	0.5	4.0	2.5	slight bruising	
Manistee	408	464	88	8	82	6	4	1.087	1.0	0	10	0	0	1.0	3.5	2.0		
ND7519-1	382	449	85	13	85	0	2	1.094	1.0	20	0	0	20	0.0	3.5	2.5		
MSV030-4	379	443	85	14	83	2	1	1.096	1.0	0	0	0	0	0.0	3.0	2.5		
MSZ052-11	372	426	87	9	84	3	4	1.084	1.0	0	20	0	0	0.0	3.5	3.0		
MSV358-3	372	411	91	7	87	4	2	1.083	1.0	0	10	0	0	0.0	3.5	2.0		
Hodag (Low N)	368	454	81	19	81	0	0	1.092	1.0	0	0	0	0	0.5	3.5	3.0		
MSX540-4	352	396	89	11	89	0	0	1.094	1.0	0	0	0	0	0.0	4.0	3.5		
MSZ242-9	351	458	76	19	72	4	5	1.094	1.0	0	10	4	20	0.0	4.0	3.0		
MSZ219-1	349	370	94	6	83	11	0	1.086	1.0	0	0	0	0	0.0	4.0	3.5		
ND7799C-1	349	398	88	10	80	8	2	1.074	1.0	0	20	0	0	0.5	4.0	2.0		
W9968-5	334	384	87	7	73	14	6	1.092	1.0	10	20	10	0	0.0	3.0	3.5		
MSW485-2	328	444	74	21	73	1	5	1.092	1.0	20	0	0	20	0.0	4.0	3.0		
MSZ219-14	319	339	94	6	85	9	0	1.085	1.5	0	30	9	10	0.0	4.0	3.5		
MSZ022-7	309	352	87	10	71	16	3	1.079	1.0	0	20	0	0	0.5	3.5	4.5		
Madison	290	347	83	9	82	1	8	1.099	1.0	0	20	0	0	0.0	3.5	2.0		
NY162	278	330	84	8	72	12	8	1.078	1.0	0	0	10	0	1.0	3.5	3.0		
MSZ242-13	240	313	77	20	77	0	3	1.100	1.0	0	0	0	0	0.0	3.5	3.0		
MSZ219-46	234	246	95	5	73	22	0	1.079	1.0	0	20	0	0	0.5	4.0	3.5		
MSW075-2	125	197	64	35	64	0	1	1.078	1.0	0	0	0	0	0.0	3.5	3.0		
<b>MEAN</b>	<b>383</b>	<b>440</b>	<b>87</b>	<b>11</b>	<b>80</b>	<b>6</b>	<b>2</b>	<b>1.088</b>	<b>1.0</b>	<b>2</b>	<b>11</b>	<b>3</b>	<b>2</b>	<b>0.2</b>	<b>3.7</b>	<b>3.0</b>		

<sup>1</sup>SIZE

Bs: < 1 7/8"  
As: 1 7/8" - 3 1/4"  
OV: > 3 1/4"  
PO: Pickouts

<sup>2</sup>SPECIFIC GRAVITY

Data not replicated

<sup>3</sup>OUT OF THE FIELD CHIP COLOR SCORE (SNAC Scale)

Ratings: 1 - 5  
1: Excellent  
5: Poor

<sup>4</sup>RAW TUBER QUALITY

(percent of tubers out of 10)  
HH: Hollow Heart  
VD: Vascular Discoloration  
IBS: Internal Brown Spot  
BC: Brown Center

<sup>5</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

**6 VINE VIGOR RATING**

Date: 6/15/17

Rating 1-5

1: Slow emergence

5: Early emergence (vigorous vines, some flowering)

**7 VINE MATURITY RATING**

Date: 8/19/17

Rating 1-5

1: Early (vines completely dead)

5: Late (vigorous vines, some flowering)

**FIELD DATA**

Planting Date 5/8/17

Vine Kill Date 9/13/17

Harvest Date 10/3/17

Days (planting to vine kill) 129

Days (planting to harvest) 149

GDD<sub>40</sub> MAWN Station Entrican

GDD<sub>40</sub> (planting to vine kill) 3167

Seed Spacing 10"

**\*Nitrogen Treatments**

Standard Treatment: 273 units N over 4 applications

Low N Treatment: 227 units N over 3 applications



# 2017 MDARD Late Box Bin Chip Potato Variety Trial

## MSU Montcalm Research Center, Montcalm County, MI

Planting: 6/2 Vine Kill: 9/21 Harvest: 10/19  
GDD<sub>40</sub>: 2960

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>					RAW TUBER QUALITY <sup>4</sup> (%)					COMMON SCAB RATING <sup>5</sup>	VINE VIGOR <sup>6</sup>	VINE MATURITY <sup>7</sup>	COMMENTS	
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR <sup>2</sup>	OTF CHIP SCORE <sup>3</sup>	HH	VD	IBS					BC
Manistee	548	586	94	4	88	6	2	1.088	1.0	0	70	0	0	0.0	3.0	3.5	nice netted skin type
Hodag	523	612	85	5	62	23	10	1.085	1.0	70	0	0	0	0.5	2.5	4.5	points in pickouts
MSV358-3	474	524	90	7	75	15	3	1.085	1.0	0	0	0	0	0.0	3.0	4.0	
MSX540-4	452	536	85	12	84	1	3	1.095	1.0	0	30	0	0	0.0	2.5	4.5	
MSZ022-7	445	487	92	5	83	9	3	1.075	1.0	20	0	0	0	0.5	2.5	4.0	
MSZ052-11	441	516	86	7	72	14	7	1.079	1.5	20	0	0	0	0.5	1.5	4.5	
MSV030-4	434	498	88	11	79	9	1	1.092	1.0	0	0	0	0	0.0	3.0	4.0	flattened round tuber type, nice netted skin type
MSR127-2	432	469	92	7	76	16	1	1.085	1.0	0	20	0	0	0.0	3.0	4.5	
MSW485-2	422	500	85	13	84	1	2	1.087	1.5	0	40	0	0	0.0	3.5	4.5	
NY152	408	452	90	9	82	8	1	1.083	1.0	60	0	0	0	0.0	3.0	4.0	
Snowden	365	456	80	15	79	1	5	1.088	1.0	0	50	0	0	0.0	3.0	4.0	
MSX120-5Y	336	437	77	19	75	2	4	1.078	1.0	0	0	0	0	0.5	2.5	4.0	severe pink eye, light yellow flesh
Lamoka	321	418	77	18	76	1	5	1.088	1.0	0	30	0	0	0.5	2.5	3.5	
MSV016-2	299	322	93	5	63	30	2	1.089	2.5	30	0	0	0	0.0	1.5	3.5	smooth light skin
MSV033-1	297	437	68	4	49	19	28	1.084	1.0	60	0	0	0	1.0	2.5	4.0	many misshapen tubers, sheep nose, knobs
Pike	268	369	73	23	70	3	4	1.077	1.0	0	20	0	0	0.0	3.0	4.0	
MSX050-1	249	352	70	17	64	6	13	1.065	1.5	10	0	0	0	0.5	3.5	4.0	
MSV307-2	241	352	68	16	59	9	16	1.079	1.0	30	0	0	0	0.5	3.0	3.0	many misshapen tubers, growth crack
<b>MEAN</b>	<b>386</b>	<b>462</b>	<b>83</b>	<b>11</b>	<b>73</b>	<b>10</b>	<b>6</b>	<b>1.083</b>	<b>1.2</b>	<b>17</b>	<b>14</b>	<b>0</b>	<b>0</b>	<b>0.3</b>	<b>2.7</b>	<b>4.0</b>	

**<sup>1</sup>SIZE**

Bs: < 1 7/8"  
As: 1 7/8" - 3 1/4"  
OV: > 3 1/4"  
PO: Pickouts

**<sup>2</sup>SPECIFIC GRAVITY**

Data not replicated

**<sup>3</sup>OUT OF THE FIELD CHIP COLOR SCORE**

(SNAC Scale)  
Ratings: 1 - 5  
1: Excellent  
5: Poor

**<sup>4</sup>RAW TUBER QUALITY**

(percent of tubers out of 10)  
HH: Hollow Heart  
VD: Vascular Discoloration  
IBS: Internal Brown Spot  
BC: Brown Center

**<sup>5</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>6</sup>VINE VIGOR RATING**

Date: 6/29/17  
Rating 1-5  
1: Slow emergence  
5: Early emergence (vigorous vines, some flowering)

**<sup>7</sup>VINE MATURITY RATING**

Date: 9/6/17  
Rating 1-5  
1: Early (vines completely dead)  
5: Late (vigorous vines, some flowering)

**FIELD DATA**

Planting Date 6/2/17  
Vine Kill Date 9/21/17  
Harvest Date 10/19/17  
Days (planting to vine kill) 111  
Days (planting to harvest) 140  
GDD<sub>40</sub> MAWN Station Entrican  
GDD<sub>40</sub> (planting to vine kill) 2960  
Seed Spacing 10"

# 2017 Chip Processing Potato Variety Trial

## Sandyland Farms, Montcalm County, MI

Planting: 5/26 Vine Kill: 9/12 Harvest: 10/17  
GDD<sub>40</sub>: 2840

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>					RAW TUBER QUALITY <sup>3</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 <sup>2</sup>	HH	VD	IBS	BC				
MSX540-4	561	641	88	10	86	2	2	1.089	0	0	0	0	2.0	1.5	3.5	
NY152	447	580	77	22	77	0	1	1.082	0	0	0	0	2.0	1.5	2.5	
MSR127-2	442	492	90	7	90	0	3	1.084	0	0	0	0	1.0	1.5	4.5	
MSV358-3	433	490	88	11	84	4	1	1.074	0	0	0	0	2.0	1.5	3.0	
MSV030-4	379	454	83	16	83	0	1	1.092	0	0	0	0	1.0	1.0	3.0	slight pink eye
Hodag	358	440	81	8	78	3	11	1.083	20	0	0	0	0.5	2.0	2.5	
<b>MEAN</b>	<b>437</b>	<b>516</b>	<b>85</b>	<b>12</b>	<b>83</b>	<b>2</b>	<b>3</b>	<b>1.084</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1.4</b>	<b>1.5</b>	<b>3.2</b>	

**<sup>1</sup>SIZE**

Bs: < 1 7/8"  
As: 1 7/8" - 3 1/4"  
OV: > 3 1/4"  
PO: Pickouts

**<sup>2</sup>SPECIFIC GRAVITY**

Data not replicated

**<sup>3</sup>RAW TUBER QUALITY**

(percent of tubers out of 10)  
HH: Hollow Heart  
VD: Vascular Discoloration  
IBS: Internal Brown Spot  
BC: Brown Center

**<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>5</sup>VINE VIGOR RATING**

Date: 6/16/17  
Rating 1-5  
1: Slow emergence  
5: Early emergence (vigorous vines, some flowering)

**<sup>6</sup>VINE MATURITY RATING**

Date: 9/6/17  
Rating 1-5  
1: Early (vines completely dead)  
5: Late (vigorous vines, some flowering)

**FIELD DATA**

Planting Date 5/26/17  
Vine Kill Date 9/12/17  
Harvest Date 10/17/17  
Days (planting to vine kill) 110  
Days (planting to harvest) 144  
GDD<sub>40</sub> MAWN Station Entrican  
GDD<sub>40</sub> (planting to vine kill) 2840  
Seed Spacing 10"

# 2017 Potatoes USA/SNAC International Chip Processing Potato Variety Trial

## Sandyland Farms, Montcalm County, MI

Planting: 5/26 Vine Kill: 9/12 Harvest: 10/17  
GDD<sub>40</sub>: 2840

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>					RAW TUBER QUALITY <sup>4</sup> (%)					COMMON SCAB RATING <sup>5</sup>	VINE VIGOR <sup>6</sup>	VINE MATURITY <sup>7</sup>	COMMENTS	
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR <sup>2</sup>	OTF CHIP SCORE <sup>3</sup>	HH	VD	IBS					BC
MSX540-4	500	570	88	9	86	2	3	1.087	2.0	0	10	0	0	2.0	1.5	3.0	
MSW485-2	495	575	86	13	83	3	1	1.086	2.0	3	37	0	0	1.7	1.0	4.5	
<b>Snowden</b>	<b>493</b>	<b>570</b>	<b>87</b>	<b>11</b>	<b>84</b>	<b>3</b>	<b>2</b>	<b>1.085</b>	<b>3.0</b>	<b>0</b>	<b>47</b>	<b>0</b>	<b>0</b>	<b>2.0</b>	<b>2.0</b>	<b>3.0</b>	
MSR127-2	469	523	90	5	85	5	5	1.086	2.0	3	33	0	0	0.5	1.5	3.5	
NY152	461	551	84	12	82	2	4	1.080	3.0	0	37	0	0	1.8	1.0	3.0	
<b>Lamoka</b>	<b>419</b>	<b>489</b>	<b>87</b>	<b>10</b>	<b>84</b>	<b>3</b>	<b>3</b>	<b>1.082</b>	<b>3.0</b>	<b>0</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>0.7</b>	<b>1.5</b>	<b>3.0</b>	
MSV358-3	396	477	83	12	79	4	5	1.074	3.0	0	40	0	0	1.8	1.5	1.0	
NDA081453CAB-2C	388	450	88	10	84	4	2	1.079	3.0	0	33	0	0	2.0	1.5	3.0	
NDTX081648CB-13W	320	405	79	19	78	1	2	1.083	3.0	0	40	0	0	2.0	1.5	3.0	
AF5040-8	276	375	76	22	72	4	2	1.081	3.0	0	47	0	0	2.2	2.0	1.5	
B2727-2	262	294	89	6	82	7	5	1.081	3.0	10	17	0	0	2.7	0.5	3.5	oval tuber type
AC01144-1W	222	318	71	23	68	3	6	1.067	4.0	3	43	0	0	1.3	2.0	3.0	some black leg
<b>MEAN</b>	<b>392</b>	<b>467</b>	<b>84</b>	<b>13</b>	<b>81</b>	<b>3</b>	<b>3</b>	<b>1.081</b>	<b>2.8</b>	<b>2</b>	<b>35</b>	<b>0</b>	<b>0</b>	<b>1.7</b>	<b>1.5</b>	<b>2.9</b>	

**<sup>1</sup>SIZE**

Bs: < 1 7/8"  
As: 1 7/8" - 3 1/4"  
OV: > 3 1/4"  
PO: Pickouts

**<sup>2</sup>SPECIFIC GRAVITY**

Data not replicated

**<sup>3</sup>OUT OF THE FIELD CHIP COLOR SCORE**

(SNAC Scale)  
Ratings: 1 - 5  
1: Excellent  
5: Poor

**<sup>4</sup>RAW TUBER QUALITY**

(percent of tubers out of 10)  
HH: Hollow Heart  
VD: Vascular Discoloration  
IBS: Internal Brown Spot  
BC: Brown Center

**<sup>5</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

**<sup>6</sup>VINE VIGOR RATING**

Date: 6/16/17  
Rating 1-5  
1: Slow emergence  
5: Early emergence (vigorous vines, some flowering)

**<sup>7</sup>VINE MATURITY RATING**

Date: 9/16/17  
Rating 1-5  
1: Early (vines completely dead)  
5: Late (vigorous vines, some flowering)

**FIELD DATA**

Planting Date: 5/26/17  
Vine Kill Date: 9/12/17  
Harvest Date: 10/17/17  
Days (planting to vine kill): 109  
Days (planting to harvest): 145  
GDD<sub>40</sub> MAWN Station: Entrican  
GDD<sub>40</sub> (planting to vine kill): 2840  
Seed Spacing: 10"

# 2017 Replicated Chip Processing Potato Variety Trial Walther Farms, St. Joseph County, MI

Planting: 4/26 Vine Kill: 8/26 Harvest: 9/18  
GDD<sub>40</sub>: 3265

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>						RAW TUBER QUALITY <sup>4</sup> (%)						COMMON SCAB RATING <sup>5</sup>	SED SCORE <sup>6</sup>	VINE VIGOR <sup>7</sup>	VINE MATURITY <sup>8</sup>	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR <sup>2</sup>	CHIP SCORE <sup>3</sup>	HH	VD	IBS	BC						
ND7799C-1	636	663	96	3	87	9	1	1.063	1.0	0	33	0	0	0.5	1.0	4.2	2.2		
<b>Snowden</b>	<b>617</b>	<b>652</b>	<b>95</b>	<b>2</b>	<b>94</b>	<b>1</b>	<b>3</b>	<b>1.083</b>	<b>1.0</b>	<b>0</b>	<b>37</b>	<b>7</b>	<b>0</b>	<b>0.5</b>	<b>0.5</b>	<b>4.0</b>	<b>3.2</b>		
MSW485-2	607	653	93	3	91	2	4	1.081	1.0	0	33	0	0	1.0	1.0	3.7	3.5		
Hodag	592	623	95	4	90	5	1	1.077	1.0	0	33	10	0	0.5	0.5	3.7	3.2		
AF5040-8	582	630	92	5	92	0	3	1.087	1.0	0	40	0	0	1.0	0.5	4.3	2.2		
NDA081453CAB-2C	577	609	95	4	93	2	1	1.072	1.0	0	13	20	0	0.5	1.5	3.7	3.2		
W9968-5	572	617	92	7	92	0	1	1.081	1.0	0	23	0	0	0.0	3.0	2.7	3.5		
NY162	562	588	95	3	92	3	2	1.073	1.5	0	13	7	0	0.5	1.5	2.7	2.7		
MSZ022-7	558	608	92	4	83	9	4	1.071	1.5	0	10	0	0	0.5	1.5	2.2	3.3		
<b>Lamoka</b>	<b>558</b>	<b>583</b>	<b>96</b>	<b>2</b>	<b>96</b>	<b>0</b>	<b>2</b>	<b>1.078</b>	<b>1.5</b>	<b>0</b>	<b>27</b>	<b>7</b>	<b>7</b>	<b>1.0</b>	<b>1.0</b>	<b>4.2</b>	<b>2.7</b>		
NY152	547	610	90	8	90	0	2	1.076	1.0	0	13	0	0	0.5	0.5	3.3	2.7		
MSZ052-11	543	620	87	4	87	0	9	1.071	1.0	0	27	0	0	0.5	0.5	3.0	3.2		
MSV030-4	541	568	95	4	94	1	1	1.083	1.0	3	7	0	0	0.0	1.0	2.3	3.5		
MSR127-2	534	569	94	3	92	2	3	1.083	1.0	3	10	0	0	0.5	0.5	3.2	4.0	two chips with brown center	
AF4648-2	530	581	91	3	89	2	6	1.081	-	3	17	0	0	0.5	-	3.5	3.3	samples mixed, no chip score	
MSX540-4	523	560	93	3	90	3	4	1.081	1.0	0	37	0	0	0.5	1.0	3.3	3.5		
MSZ219-13	520	549	95	2	91	4	3	1.081	1.0	0	23	0	0	0.0	1.0	3.0	4.5		
MSZ219-1	515	550	94	2	72	22	4	1.077	-	13	13	0	0	0.5	-	3.3	3.8	samples mixed, no chip score	
<b>Atlantic</b>	<b>512</b>	<b>550</b>	<b>93</b>	<b>5</b>	<b>89</b>	<b>4</b>	<b>2</b>	<b>1.082</b>	<b>1.5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1.5</b>	<b>2.0</b>	-	-		
ND7519-1	508	558	91	5	87	4	4	1.079	1.0	0	13	0	0	1.5	0.0	4.0	2.7		
MSZ219-14	496	538	92	2	87	5	6	1.075	1.5	0	20	0	0	0.5	0.5	3.3	3.8		
Manistee	489	510	96	2	96	0	2	1.073	1.0	0	3	3	0	1.0	0.0	2.8	1.8		
MSV358-3	463	488	95	4	95	0	1	1.076	1.5	0	17	0	0	0.0	1.0	3.2	2.3		
TX09396-1W	455	508	90	1	74	16	9	1.080	1.0	7	10	17	0	1.0	0.5	2.0	4.3		
Madison	370	418	89	8	89	0	3	1.095	1.5	0	3	0	0	0.5	0.5	3.0	1.2		
Pinnacle Chipper	363	514	71	29	71	0	0	1.086	1.0	0	50	0	0	1.0	0.5	-	-		
Saginaw Chipper	355	470	76	24	74	2	0	1.075	1.0	0	60	0	0	0.5	0.5	-	-		
<b>MEAN</b>	<b>523</b>	<b>570</b>	<b>92</b>	<b>5</b>	<b>88</b>	<b>4</b>	<b>3</b>	<b>1.079</b>	<b>1.0</b>	<b>1</b>	<b>22</b>	<b>3</b>	<b>0</b>	<b>0.6</b>	<b>0.9</b>	<b>3.3</b>	<b>3.1</b>		

<sup>1</sup>**SIZE**

Bs: < 1 7/8"  
As: 1 7/8" - 3 1/4"  
OV: > 3 1/4"  
PO: Pickouts

<sup>2</sup>**SPECIFIC GRAVITY**  
Data not replicated

<sup>3</sup>**OUT OF THE FIELD CHIP COLOR SCORE (SNAC Scale)**  
Ratings: 1 - 5  
1: Excellent  
5: Poor

<sup>4</sup>**RAW TUBER QUALITY (percent of tubers out of 10)**  
HH: Hollow Heart  
VD: Vascular Discoloration  
IBS: Internal Brown Spot  
BC: Brown Center

<sup>5</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>6</sup>**SED (STEM END DEFECT) SCORE**  
0: No stem end defect  
1: Trace stem end defect  
2: Slight stem end defect  
3: Moderate stem end defect  
4: Severe stem end defect  
5: Extreme stem end defect

<sup>7</sup>**VINE VIGOR RATING**  
Date: 6/17/17  
Rating 1-5  
1: Slow emergence  
5: Early emergence (vigorous vines, some flowering)

<sup>8</sup>**VINE MATURITY RATING**  
Date: 8/16/17  
Rating 1-5  
1: Early (vines completely dead)  
5: Late (vigorous vines, some flowering)

**FIELD DATA**  
Planting date 4/26/17  
Vine Kill Date 8/26/17  
Harvest Date 9/18/17  
Days (planting to vine kill) 122  
Days (planting to harvest) 146  
GDD<sub>40</sub> MAWN Station Constantine  
GDD<sub>40</sub> 3265  
Seed Spacing 10"

## 2017 Processing Variety Descriptions

Entry	Pedigree	2016 Scab Rating*	Characteristics
Atlantic	Wauseon x B5141-6 (Lenape)	0.0	High yield, early maturing, high incidence of internal defects, high specific gravity
Hodag (W5955-1)	Pike x Dakota Pearl	0.8	Average yield, high specific gravity, size profile similar to Atlantic, management should be adjusted because this variety tends to produce large tubers, long storage potential with common scab resistance
Lamoka (NY139)	NY120 x NY115	0.8	Average yield, mid-late season maturity, medium specific gravity, oval to oblong tuber type, low internal defects, long-term chip quality
Pike (NYE55-35)	Allegany x Atlantic	0.5	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	-	Average yield, high tuber set with smaller tuber size profile, medium-late vine maturity, tubers tend toward flattened shape, scab tolerance similar to Snowden
Madison	Sun Rain	-	--
Manistee (MSL292-A)	Snowden x MSH098-2	1.6	Average yield with early to mid-season maturity, excellent chip-processing quality and long storage potential, scab tolerance and specific gravity similar to Snowden, uniform round tubers with shallow eyes and heavy netted skin, some compressed tubers apical to stem
MegaChip	Wischip x FYF85	-	Medium to late season maturity, high yield potential, early bulking, longer dormancy than Snowden, common scab resistance, fairly resistant to shatter bruise, good chip quality out of the field and out of storage

(2017 Processing Varieties cont.)

<b>Entry</b>	<b>Pedigree</b>	<b>2016 Scab Rating*</b>	<b>Characteristics</b>
Saginaw Chipper (MSR061-1)	Pike x NY121	-	Medium yield, resistance to PVY, common scab, and foliar late blight, Late season maturity, excellent chip quality out of storage, low incidence of internal defects
Snowden (W855)	B5141-6 x Wischip	2.0	High yield, medium-late maturity, mid-season storage, reconditions well in storage, medium to high specific gravity
AC01144-1W	COA96141-2 x Willamette	-	--
AF4648-2	NY132 x Liberator	0.7	Moderate yield potential, mid-season maturity, high specific gravity, low internal defects, resistant to common scab, PVY, and golden nematode
AF5040-8	AF2376-5 x Lamoka	2.7	High yield potential, high specific gravity, medium maturing, vigorous vines, pale yellow flesh, round to oblong shape, common scab susceptible
B2727-2	B0766-3 x B2135-163	2.4	Early vine maturity, oval tuber shape
MSR127-2	MSJ167-1 x MSG227-2	0.7	Scab resistant, high specific gravity, good chip quality from 52 °F storage, above average yield potential, medium-late maturity, in SNAC, NCPT, and Fast Track trials
MSV030-4	Beacon Chipper x MSG227-2	-	--
MSV313-2	MSN238-A x OP	0.3	High yield potential, large round tubers with smooth shape, scab resistant, potential storage chipper, in Fast Track trial
MSV358-3	MSP239-1 x OP	0.1	Scab resistant with high specific gravity, chip storage potential from 50 °F, in Fast Track program

(2017 Processing Varieties cont.)

<b>Entry</b>	<b>Pedigree</b>	<b>2016 Scab Rating*</b>	<b>Characteristics</b>
MSW075-2	MSK061-4 x Nicolet	-	--
MSW485-2	MSQ070-1 x MSR156-7	0.8	High yielding with high specific gravity, mid-season maturity, excellent chip-processing quality out of the field and long-term storage, resistance to late-blight and common scab tolerant, in Fast Track and SNAC trials
MSX111-3	Dakota Crisp x MSN191-2Y	-	--
MSX540-4	Saginaw Chipper x Lamoka	0.9	Average yield with high specific gravity and high percentage of A-sized tubers, mid to late-season maturity, long-term chip-processing quality with resistance to PVY and late blight and tolerance to common scab, currently in Fast Track program
MSZ022-7	Kalkaska x Tundra	-	--
MSZ052-11	Pike x MSR127-2	-	--
MSZ219-1	Saginaw Chipper x MSR127-2	0.2	Scab, PVY and late-blight resistant with high specific gravity, smooth and round tubers, in NCPT and Fast Track
MSZ219-13	Saginaw Chipper x MSR127-2	-	--

(2017 Processing Varieties cont.)

<b>Entry</b>	<b>Pedigree</b>	<b>2016 Scab Rating*</b>	<b>Characteristics</b>
MSZ219-14	Saginaw Chipper x MSR127-2	0.5	High specific gravity, high yield potential with a high percentage of A-sized tubers, mid to late season maturity, long-term chip-processing quality with resistance to common scab, late blight, and PVY, in NCPT and Fast Track
MSZ219-46	Saginaw Chipper x MSR127-2	-	--
MSZ242-09	MSR169-8Y x MSU383-A	-	--
MSZ242-13	MSR169-8Y x MSU383-A	-	--
ND7519-1	ND3828-15 x W1353	0.9	High specific gravity, medium to high yield potential, medium vine maturity, round smooth skinned tubers
ND7799C-1	Dakota Pearl x Dakota Diamond	-	High yield potential, medium vine maturity, high specific gravity
NDA081453CAB-2C	Dakota Diamond x ND039173CAB-22	2.0	High yield potential, some resistance to common scab
NDTX081648CB-13W	ND8456-1 x ND7377CB-1	1.3	Medium maturity, oval shaped tubers
NY152 (NYH15-5)	B38-14 x Marcy	0.8	High yield potential, medium specific gravity, excellent long-term storage chip quality, tolerance to common scab, medium-late maturity
NY157	White Pearl x NY115	1.1	High yield potential, low internal defects, medium specific gravity, moderate common scab resistance
NY162 (NYK31-4)	NYE106-2 x NYE48-2	1.1	High yield potential, low internal defects, medium specific gravity, moderate common scab resistance



(2017 Processing Varieties cont.)

<b>Entry</b>	<b>Pedigree</b>	<b>2016 Scab Rating*</b>	<b>Characteristics</b>
TX09396-1W	Atlantic x Lamoka	1.9	Large tuber size, nice skin, moderate to high yield potential
W8822-1	Fasan x Tundra	0.4	High specific gravity, tolerant to PVY, late maturity, long storage potential, cream to yellow colored flesh depending on environmental conditions
W9968-5	Fasan x Nicolet	-	--

\*Scab rating based on 0-5 scale; 0 = most resistant and 5 = most susceptible. Common scab data provided by Potato Outreach Program. Line descriptions provided by various potato breeding programs and updated by Potato Outreach Program following evaluations at various trial locations throughout Michigan.