

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

## **Data Summary: Tablestock (Non-russet) Variety Trials**

### **Table of Contents**

<b>1.....</b>	<b>2016 Statewide Tablestock (Non-russet) Line Summary</b>
<b>2-3.....</b>	<b>2016 Tablestock Trial; Crawford Farms; Montcalm County, MI</b>
<b>4.....</b>	<b>2016 Tablestock Trial; Horkey Brothers; Monroe County, MI</b>
<b>5-6.....</b>	<b>2016 Tablestock Trial; Kitchen Farms, Antrim County, MI</b>
<b>7.....</b>	<b>2016 Tablestock Trial; VanDamme Farms; Delta County, MI</b>
<b>8.....</b>	<b>2016 Replicated Tablestock Trial; Walther Farms; Antrim County, MI</b>
<b>9.....</b>	<b>2016 Replicated Tablestock Trial; Walther Farms, St. Joseph County, MI</b>
<b>10.....</b>	<b>2016 Replicated Tablestock Trial; Walther Farms, Tuscola County, MI</b>
<b>11.....</b>	<b>2016 Strip Tablestock Trial; Walther Farms, St. Joseph County, MI</b>
<b>12.....</b>	<b>2016 Strip Tablestock Trial; Walther Farms, Tuscola County, MI</b>
<b>13.....</b>	<b>2016 Tablestock Trial; Wilks Farms, Presque Isle County, MI</b>

## 2016 Statewide Tablestock Potato Variety Trials Overall Averages- Ten Locations

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>			
YELLOW SKIN TYPE	W9576-11Y <sup>ag</sup>	465	573	81	17	80	1	2	1.053	0	18	0	0	1.5	4.3	2.4	non-uniform tuber shape, pinkeye	
	Yukon Gold <sup>ah</sup>	457	498	92	4	77	15	4	1.074	3	13	0	0	1.2	3.5	2.5	pinkish color around eyes, moderate yellow flesh	
	Soraya <sup>abcdegj</sup>	447	552	79	8	71	8	13	1.056	0	24	1	0	0.2	3.6	3.3	dark yellow flesh, oblong tuber shape, sl alligator hide, misshapened pickouts	
	Jelly <sup>eg</sup>	439	520	85	12	83	2	3	1.069	0	34	0	8	0.6	3.4	4.2	medium yellow flesh, oblong tuber shape	
	MSV093-1Y <sup>abcdgij</sup>	437	507	84	9	70	14	7	1.064	0	34	0	0	0.5	3.8	3.8	round tuber shape, medium yellow flesh	
	Lehigh <sup>bcdfh</sup>	428	463	93	3	72	21	4	1.066	3	28	0	0	0.8	3.1	3.1	medium yellow flesh, light netted skin	
	Allora <sup>hi</sup>	425	531	81	14	78	3	5	1.063	0	1	0	0	0.7	3.9	2.9	uniform oval tuber shape, pinkeye	
	Satina <sup>abcfhj</sup>	422	494	83	8	78	5	9	1.055	0	33	3	0	0	1.0	3.9	4.0	uniform round tuber shape, alligator hide, nice yellow skin
	Alegria <sup>abcghij</sup>	420	478	87	9	81	6	4	1.064	0	31	3	0	0.8	3.9	3.0	dark yellow flesh, light russeting, oblong tuber shape, tr pinkeye	
	Viviana <sup>acdeg</sup>	393	521	75	20	73	2	5	1.059	0	18	1	0	1.1	3.8	1.9	oval pear shaped tubers, tr pinkeye, alligator hide	
	NY149 <sup>abcdegj</sup>	380	488	76	19	73	3	5	1.063	1	41	1	0	0.7	3.9	3.0	pinkish color around eyes, oval shape, medium yellow flesh	
	Elife <sup>eg</sup>	369	546	66	28	66	0	6	1.063	0	24	0	0	1.0	3.9	2.2	non-uniform tuber type, some pointed tubers	
	Julinka <sup>abcddeg</sup>	364	495	73	19	69	4	8	1.063	0	39	1	0	1.4	3.5	2.4	dark yellow flesh, oblong tuber shape, tr pinkeye	
	Oneida Gold <sup>acghij</sup>	337	415	81	18	79	2	1	1.065	0	17	2	1	0.6	3.6	3.6	small round uniform tuber shape, lightly russeted skin	
	Wega <sup>abcghij</sup>	334	496	65	28	65	0	7	1.054	0	24	1	0	0.6	3.2	3.1	oblong tuber shape, moderate yellow flesh, tr pinkeye	
	NYL30-5 <sup>abcdegj</sup>	315	454	67	26	66	1	7	1.067	0	39	0	0	1.0	3.8	2.9	heat sprouting, pinkish colored eyes, oval tuber shape, light yellow skin	
	Smart <sup>acghij</sup>	293	448	65	31	65	0	4	1.059	0	29	0	0	0.7	3.2	2.7	dark yellow flesh, oblong oval tuber shape, nice skin	
Malou <sup>abcdeg</sup>	282	386	71	29	70	1	0	1.056	0	51	1	0	1.3	3.7	1.6	small round tuber shape, bright skin		
MSW182-1Y <sup>fh</sup>	271	517	52	47	52	0	1	1.079	0	15	5	0	1.5	4.3	3.8	pinkish color around eyes		
ROUND WHITE TYPE	<b>Reba</b> <sup>abcj</sup>	<b>453</b>	<b>477</b>	<b>95</b>	<b>4</b>	<b>70</b>	<b>25</b>	<b>1</b>	<b>1.062</b>	<b>3</b>	<b>25</b>	<b>0</b>	<b>0</b>	<b>0.9</b>	<b>3.1</b>	<b>3.1</b>	<b>blocky oval tuber shape, bright skin</b>	
	MSV179-1 <sup>abcj</sup>	424	441	96	2	69	27	2	1.061	0	18	0	0	1.0	2.6	3.5	cream colored flesh, nice uniform round shape	
	MSQ131-A <sup>b</sup>	342	346	99	1	45	54	0	1.044	0	40	40	0	3.0	-	2.5		
RED SKIN TYPE	Red Carolina <sup>acdeg</sup>	567	659	86	9	83	3	5	1.055	0	31	3	0	1.5	3.8	3.1	pinkeye, moderate silver scurf, oblong tuber shape	
	Red La Soda <sup>acghij</sup>	538	582	92	6	72	20	2	1.057	2	28	2	6	0.8	4.1	3.2	misshapened tubers, deep eyes, silver scurf, light red skin	
	Red La Soda 10-3 <sup>acdegij</sup>	496	554	89	7	77	12	4	1.058	0	18	4	2	1.7	3.3	2.5	deep eyes, non-uniform tuber shape, skinning	
	Red La Soda NY <sup>acghij</sup>	474	520	91	6	74	17	3	1.055	0	26	4	6	0.8	3.7	2.7	misshapened tubers, deep eyes, silver scurf	
	NY159 <sup>acdegj</sup>	448	505	88	9	80	8	3	1.051	0	17	1	0	1.0	3.2	2.6	medium red skin, severe silver scurf, moderate skinning	
	ND7132-1R <sup>acdegj</sup>	434	504	85	8	78	7	7	1.056	0	29	2	0	0.9	3.4	3.7	nice red skin color, oval tuber type, silver scurf, tr pinkeye	
	Dark Red Chieftain <sup>acghij</sup>	426	468	91	9	83	8	0	1.058	0	50	0	0	0.7	2.9	3.6	good overall appearance, silver scurf, netted skin	
	<b>Dark Red Norland</b> <sup>acdegij</sup>	<b>403</b>	<b>463</b>	<b>87</b>	<b>10</b>	<b>83</b>	<b>4</b>	<b>3</b>	<b>1.059</b>	<b>2</b>	<b>19</b>	<b>0</b>	<b>0</b>	<b>0.4</b>	<b>3.9</b>	<b>1.8</b>	<b>silver scurf, non-uniform tuber shape</b>	
	Red Endeavor <sup>acghij</sup>	394	501	79	21	75	4	0	1.056	0	15	0	0	0.4	3.9	2.4	silver scurf, skinning, light netted skin, pinkeye, uniform round tuber shape	
	AF4985-1R <sup>acdeg</sup>	391	465	84	9	81	3	7	1.056	0	12	3	0	0.2	2.4	2.7	skinning, misshapened tubers, deep eyes	
	<b>Red Norland</b> <sup>acghij</sup>	<b>378</b>	<b>439</b>	<b>86</b>	<b>11</b>	<b>79</b>	<b>7</b>	<b>3</b>	<b>1.054</b>	<b>0</b>	<b>16</b>	<b>1</b>	<b>1</b>	<b>0.7</b>	<b>3.7</b>	<b>1.8</b>	<b>light red skin</b>	
	ND6002-1R <sup>acdegj</sup>	377	423	89	10	81	8	1	1.059	0	26	0	0	0.5	3.0	2.4	silver scurf, sl pinkeye, skinning	
	MSW343-2R <sup>acghij</sup>	377	428	86	13	84	2	1	1.053	0	20	0	0	0.9	2.3	1.8	pink skin, sl silver scurf, uniform tuber type, deep eyed	
	Nordonna <sup>acghij</sup>	376	472	79	15	71	8	6	1.058	2	16	4	2	1.6	3.1	3.3	silver scurf, knobs in pickouts, heat sprouts	
	Dakota Ruby <sup>acdegj</sup>	356	491	71	27	70	1	2	1.067	2	18	1	0	0.3	2.9	2.8	moderate silver scurf, small uniform round tuber shape, skinning	
	W8890-1R <sup>ag</sup>	328	443	73	26	73	0	1	1.059	0	22	3	0	0.8	3.8	2.7	oval tuber type, nice skin set, good color	
	AF4831-2R <sup>acdeg</sup>	328	452	73	26	73	0	1	1.055	0	11	0	0	0.7	2.8	3.0	silver scurf, sl skinning	
	CO098012-5R <sup>acdeg</sup>	309	435	69	30	69	0	1	1.063	0	19	1	0	1.4	2.7	3.3	sl silver scurf, uniform round tuber shape	
	Merlot <sup>acghij</sup>	286	465	60	32	60	0	8	1.068	0	29	1	3	1.0	3.2	3.8	medium yellow flesh, oval to oblong tuber shape, medium red skin color	
Modoc <sup>acghij</sup>	283	414	68	30	68	0	2	1.053	4	20	2	0	0.9	2.8	1.8	reddish pink skin, oblong tuber type		
NDCO08165-1R <sup>e</sup>	255	396	64	34	64	0	2	1.072	0	7	0	0	0.8	3.8	2.5			
CO00291-5R <sup>acghij</sup>	246	304	78	19	76	2	3	1.053	1	31	0	0	1.5	2.4	3.5	dark red skin color, silver scurf		
Ciklamen <sup>acdeg</sup>	148	332	43	55	43	0	2	1.075	3	39	0	0	1.9	3.1	3.4	light red skin color, silver scurf, oblong non-uniform tuber shape		
NOVELTY TYPE	CO8155-2Rus/Y <sup>h</sup>	519	666	78	18	78	0	4	1.066	0	0	0	0	0.0	4.5	2.5	yellow flesh	
	MST386-1P <sup>h</sup>	478	545	88	2	53	35	10	1.070	0	30	0	0	0.0	2.5	4.0		
	W9962-1RY/Y <sup>acghij</sup>	468	532	88	10	80	8	2	1.052	0	43	0	0	0.4	2.9	2.8	lightly netted skin, heat sprouts, yellow and red spotted skin, yellow flesh	
	MSX324-1P <sup>acghij</sup>	314	437	72	23	71	1	5	1.073	0	15	0	0	0.3	3.4	2.0	moderate silver scurf, purple skin, deep eyes	
	MSX001-4WP <sup>acghij</sup>	292	318	91	7	68	23	2	1.056	0	24	0	0	0.2	2.9	1.9	grey colored, purple flesh	
	MSW316-3PY <sup>acghij</sup>	261	381	69	19	68	1	12	1.064	0	20	0	0	1.7	4.0	3.2	non-uniform tuber shape, purple skin	
	MSR226-1RR <sup>acghij</sup>	231	422	55	44	55	0	1	1.062	0	35	0	0	0.3	2.4	2.5	red colored flesh, pear shaped	
	Blue Belle <sup>abcdeg</sup>	203	314	64	30	61	3	6	1.057	0	40	0	0	1.1	3.1	4.8	purple splash around eyes	
	MSR226-ARR <sup>acghij</sup>	201	353	55	44	54	1	1	1.064	0	35	0	0	0.5	2.3	2.5	dark red skin, red flesh, non-uniform tuber type	
	Amarosa <sup>acghij</sup>	106	286	33	65	33	0	2	1.061	0	26	0	0	0.3	2.1	3.8	small fingerling type, red skin, red mottled flesh	
<b>MEAN</b>	<b>367</b>	<b>466</b>	<b>77</b>	<b>19</b>	<b>70</b>	<b>7</b>	<b>4</b>	<b>1.061</b>	<b>0.5</b>	<b>25.2</b>	<b>1.6</b>	<b>0.5</b>	<b>0.9</b>	<b>3.3</b>	<b>2.9</b>		tr = trace, sl = slight, N/A = not available gc=growth crack	

### 2016 Tablestock Variety Trial Sites

<sup>a</sup> Crawford Tablestock Trial, Montcalm Co.

<sup>b</sup> Horkey Tablestock Trial, Monroe Co.

<sup>c</sup> Kitchens Tablestock Trial, Antrim Co.

<sup>d</sup> VanDamme Tablestock Trial, Delta Co.

<sup>e</sup> Walther R/Y Replicated Trial, Tuscola Co.

<sup>f</sup> Walther R/Y Strip Trial, Tuscola Co.

<sup>g</sup> Walther R/Y Replicated Trial, St. Joseph Co.

<sup>h</sup> Walther R/Y Strip Trial, St. Joseph Co.

<sup>i</sup> Walther R/Y Replicated Trial, Antrim Co.

<sup>j</sup> Wilks Tablestock Trial, Presque Isle Co.

<sup>k</sup> NFPT (selected lines replicated); Walther Farms; St. Joseph Co.

### <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

Ratings: 1 - 5

1: Slow Emergence

5: Early Emergence

### <sup>5</sup>VINE MATURITY RATING

Ratings: 1 - 5

1: Early (vines completely dead)

5: Late (vigorous vine, some flowering)

### <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 Tablestock Potato Variety Trial Crawford Farms, Montcalm County, MI

Harvest 19-Oct-16 148 Days

DD, Base 40<sup>6</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	RATING <sup>3</sup>	VIGOR <sup>4</sup>	MATURITY <sup>5</sup>	
A03141-6Rus	565	611	92	5	68	24	3	1.079	50	40	0	0	1.0	2.5	4.5	
Mountain Gem Russet	544	589	95	3	93	2	2	1.068	20	60	0	0	0.0	2.0	3.5	
Reveille Russet	519	624	83	8	75	8	9	1.058	0	40	0	0	0.5	0.5	3.5	
Caribou Russet	470	495	95	2	71	24	3	1.068	0	60	0	0	1.5	2.5	4.0	
ND050032-4Rus	469	528	89	9	82	7	2	1.087	0	50	10	0	1.0	2.0	3.0	
AF5179-4Rus	464	535	87	5	76	11	8	1.075	0	50	0	0	1.0	2.5	4.5	
A02507-2LBRus	452	545	83	12	73	10	5	1.076	0	40	0	0	0.5	1.5	4.0	
COTX09022-3RusRE/Y	448	511	88	11	83	5	1	1.073	0	0	0	0	2.0	3.0	3.0	pink eyes
A09001-12TERus	423	480	88	8	88	0	4	1.072	0	0	0	0	0.0	2.5	2.5	
W9433-1Rus	421	482	87	8	78	9	5	1.064	0	40	0	0	1.5	2.0	3.0	moderate rot
A06862-18VRRus	395	474	83	12	83	0	5	1.074	0	40	0	0	0.5	3.5	4.5	
COTX09052-2Rus	385	440	87	12	79	8	1	1.061	0	80	0	0	0.5	1.0	3.0	
AC96052-1Rus	373	443	84	16	71	13	0	1.070	0	50	0	0	0.0	2.0	3.5	
W9742-3Rus	352	400	88	10	83	5	2	1.085	0	40	0	0	1.0	2.5	3.5	
<b>Silverton Russet</b>	<b>349</b>	<b>398</b>	<b>88</b>	<b>7</b>	<b>74</b>	<b>14</b>	<b>5</b>	<b>1.066</b>	<b>40</b>	<b>60</b>	<b>0</b>	<b>20</b>	<b>0.5</b>	<b>2.0</b>	<b>3.0</b>	alligator hide
WND8625-2Rus	332	369	90	6	78	12	4	1.061	0	60	0	0	2.5	1.5	3.5	
Dakota Russet	318	359	89	9	74	15	2	1.064	0	50	0	0	0.0	2.0	3.5	
TX08352-5Rus	306	364	84	14	80	4	2	1.049	0	20	0	0	1.5	2.0	1.5	
AF4124-7Rus	304	351	87	11	87	0	2	1.068	0	70	0	0	0.0	2.5	2.5	
AO03123-2Rus	262	368	71	23	66	5	6	1.077	20	40	0	0	0.5	3.0	4.0	
A06021-1TRus	248	322	77	23	63	14	0	1.069	10	40	0	0	0.5	2.0	2.0	
A096305-3Rus	240	360	67	18	56	11	15	1.076	0	50	0	0	2.5	2.5	3.5	
Pioneer Russet	206	245	84	13	67	17	3	1.050	0	40	0	0	2.0	1.5	1.0	
<b>Russet Norkotah</b>	<b>165</b>	<b>209</b>	<b>79</b>	<b>21</b>	<b>79</b>	<b>0</b>	<b>0</b>	<b>1.060</b>	<b>10</b>	<b>40</b>	<b>0</b>	<b>0</b>	<b>2.0</b>	<b>2.0</b>	<b>1.0</b>	
Red Carolina	629	705	89	11	89	0	0	1.055	0	40	0	0	2.0	3.5	3.0	
Dark Red Chieftan	545	593	92	6	86	6	2	1.058	0	70	0	0	0.5	2.0	3.5	
Red Lasoda	457	549	83	11	61	22	6	1.053	0	30	0	0	0.0	4.0	3.0	
ND7132-1R	450	506	89	8	77	12	3	1.057	0	30	0	0	2.0	3.0	3.5	
Red Endeavor	441	548	81	19	76	5	0	1.057	0	10	0	0	0.0	3.5	2.5	
Red La Soda NY	402	449	89	5	85	4	6	1.050	0	50	0	0	0.0	3.0	2.0	
CO098012-5R	394	506	78	22	78	0	0	1.068	0	40	0	0	0.0	2.0	3.5	
Red La Soda 10-3	375	435	86	9	75	11	5	1.051	0	40	10	0	3.0	2.0	2.0	
AF4985-1R	360	443	81	14	78	3	5	1.048	0	20	10	0	0.0	2.0	2.0	
<b>Dark Red Norland</b>	<b>344</b>	<b>384</b>	<b>89</b>	<b>10</b>	<b>86</b>	<b>3</b>	<b>1</b>	<b>1.054</b>	<b>0</b>	<b>40</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>3.0</b>	<b>1.0</b>	sl silver surf
Nordonna	343	389	88	8	83	5	4	1.050	0	30	0	0	2.0	2.0	2.0	sl silver scurf
AF4831-2R	331	426	78	22	78	0	0	1.049	0	0	0	0	0.0	1.5	3.5	
<b>Red Norland</b>	<b>329</b>	<b>405</b>	<b>81</b>	<b>16</b>	<b>72</b>	<b>9</b>	<b>3</b>	<b>1.048</b>	<b>0</b>	<b>40</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>3.0</b>	<b>1.0</b>	
ND6002-1R	324	378	86	14	73	13	0	1.051	0	40	0	0	0.5	2.5	1.5	
MSW343-2R	306	355	86	14	86	0	0	1.055	0	40	0	0	1.5	2.0	1.0	
Dakota Ruby	296	395	75	24	75	0	1	1.068	0	20	0	0	0.0	2.0	2.0	moderate silver scurf
NY159	288	371	78	20	78	0	2	1.041	0	40	0	0	2.0	2.5	1.5	
Merlot	248	419	59	34	59	0	7	1.069	0	50	0	20	2.0	2.5	3.0	
Modoc	225	320	70	30	70	0	0	1.046	10	50	0	0	1.5	2.5	1.5	
Ciklamen	83	286	29	70	29	0	1	1.067	0	70	0	0	2.0	3.0	2.5	

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LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>					RAW TUBER QUALITY <sup>2</sup> (%)				SCAB	VINE	VINE	COMMENTS	
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR	HH	VD	IBS	BC	RATING <sup>3</sup>	VIGOR <sup>4</sup>		MATURITY <sup>5</sup>
Wega	536	604	89	10	88	1	1	1.052	0	40	0	0	0.5	2.5	3.0	
MSV093-1Y	528	609	87	9	76	11	4	1.079	0	80	0	0	0.5	3.0	4.0	
Soraya	462	535	86	7	86	0	6	1.053	0	30	0	0	0.5	2.5	3.0	
NY149	405	509	80	15	80	0	5	1.061	0	70	0	0	2.0	4.0	2.5	
<b>Lehigh</b>	<b>390</b>	<b>410</b>	<b>95</b>	<b>1</b>	<b>89</b>	<b>6</b>	<b>4</b>	<b>1.070</b>	<b>20</b>	<b>60</b>	<b>0</b>	<b>0</b>	<b>1.0</b>	<b>2.0</b>	<b>2.5</b>	
Julinka	382	489	78	13	78	0	9	1.059	0	60	0	0	2.0	3.5	1.5	
Yellow Skin Type Satina	361	395	91	9	91	0	0	1.055	0	50	20	0	1.5	3.0	3.0	
Viviana	329	459	72	26	72	0	2	1.054	0	50	0	0	0.5	3.5	1.5	
Alegria	324	369	88	12	88	0	0	1.061	0	30	0	0	0.5	3.5	2.0	
NYL30-5	282	426	66	34	66	0	0	1.062	0	80	0	0	0.0	3.5	2.0	pink colored eyes
Oneida Gold	270	379	71	27	71	0	2	1.066	0	20	0	0	0.0	2.5	4.0	
Smart	213	330	64	32	64	0	4	1.053	0	20	0	0	0.5	2.0	2.0	
Malou	209	315	66	34	66	0	0	1.047	0	90	0	0	1.0	3.0	1.0	
MST386-1P	478	545	88	2	53	35	10	1.070	0	30	0	0	0.0	2.5	4.0	
W9962-1RY Y	409	446	92	8	87	5	0	1.050	0	70	0	0	0.5	2.0	3.0	
MSR226-ARR	304	442	69	31	65	4	0	1.062	0	50	0	0	0.0	2.0	2.5	
MSR226-1RR	283	365	77	23	77	0	0	1.059	0	20	0	0	0.0	2.0	4.5	
Novelty Type MSX324-1P	278	396	70	27	70	0	3	1.072	0	40	0	0	0.0	3.0	1.5	
Blue Belle	274	462	59	18	59	0	23	1.069	0	40	0	0	2.0	3.0	4.5	
MSX001-4WP	261	288	91	5	74	17	4	1.050	0	70	0	0	0.0	2.5	1.0	
MSW316-3PY	259	364	71	11	71	0	18	1.064	0	20	0	0	2.5	3.5	3.5	
Amarosa	121	345	35	64	35	0	1	1.054	0	30	0	0	0.0	1.5	2.5	
Round White Type <b>Reba</b>	<b>519</b>	<b>536</b>	<b>97</b>	<b>3</b>	<b>79</b>	<b>18</b>	<b>0</b>	<b>1.061</b>	<b>10</b>	<b>40</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>3.0</b>	<b>3.0</b>	
MSV179-1	471	493	96	2	87	8	2	1.070	0	20	0	0	1.5	2.0	3.5	
<b>MEAN</b>	<b>361</b>	<b>439</b>	<b>81</b>	<b>16</b>	<b>75</b>	<b>6</b>	<b>3</b>	<b>1.062</b>	<b>3</b>	<b>43</b>	<b>1</b>	<b>1</b>	<b>0.9</b>	<b>2.5</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" or < 4 oz.  
 As: 1 7/8" - 3.25" or 4 - 10 oz.  
 OV: > 3.25" or > 10 oz.  
 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>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>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>6</sup>MAWN STATION: Entrican  
 Planting to Vine Kill

# 2016 Freshpack Potato Variety Trial

## Horkey Brothers, Monroe County, MI

Harvest 19-Sep-16      143 Days

DD, Base 40<sup>6</sup> 3121

TUBER TYPE	LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>				SP GR	RAW TUBER QUALITY <sup>2</sup> (%)				COMMON	VINE	VINE	COMMENTS	
		US#1	TOTAL	US#1	Bs	As	OV		PO	HH	VD	IBS	BC	SCAB RATING <sup>3</sup>	VIGOR <sup>4</sup>		MATURITY <sup>5</sup>
Russet Type	A06021-1TRus	291	334	87	11	78	9	2	1.056	0	80	0	0	0.5	3.5	2.0	
	TX08352-5Rus	290	381	76	20	73	3	4	1.044	0	60	0	0	1.0	3.0	2.0	
	A09001-12TERus	265	309	86	12	72	14	2	1.060	0	70	0	0	4.0	4.0	4.0	severe scab
	COTX09052-2Rus	247	318	78	18	78	0	4	1.042	0	100	0	0	0.0	3.0	3.5	
	A096305-3Rus	233	332	70	13	62	8	17	1.048	0	90	20	0	4.5	3.5	4.0	
	Pioneer Russet	209	297	70	15	52	18	15	1.063	0	60	0	0	0.0	3.0	2.5	
	COTX09022-3RusRE/Y	207	293	71	25	67	4	4	1.057	0	70	0	0	3.0	3.5	1.5	
	A02507-2LBRus	197	278	71	12	67	4	17	1.052	0	80	0	0	0.5	2.0	4.0	
	Caribou Russet	189	244	77	3	34	43	20	1.042	0	80	70	20	2.0	3.5	4.0	severe rot
	AF4124-7Rus	184	262	70	6	57	13	24	1.058	0	80	0	0	1.0	3.5	3.5	rot, misshapened pickouts
	AC96052-1Rus	134	187	72	18	64	8	10	1.049	0	80	0	0	1.5	2.0	4.0	
	<b>Russet Norkotah</b>	<b>124</b>	<b>199</b>	<b>62</b>	<b>27</b>	<b>62</b>	<b>0</b>	<b>11</b>	<b>1.046</b>	<b>0</b>	<b>60</b>	<b>10</b>	<b>0</b>	<b>2.0</b>	<b>3.0</b>	<b>1.0</b>	
<b>Silverton Russet</b>	<b>123</b>	<b>163</b>	<b>76</b>	<b>11</b>	<b>66</b>	<b>10</b>	<b>13</b>	<b>1.041</b>	<b>0</b>	<b>90</b>	<b>0</b>	<b>0</b>	<b>0.5</b>	<b>2.5</b>	<b>4.0</b>	<b>severe rot</b>	
AO03123-2Rus	99	179	55	27	55	0	18	1.059	0	10	0	0	3.0	3.0	4.0	knobby, misshapened pickouts	
<b>Lehigh</b>	<b>314</b>	<b>339</b>	<b>93</b>	<b>2</b>	<b>57</b>	<b>36</b>	<b>5</b>	<b>1.054</b>	<b>0</b>	<b>60</b>	<b>0</b>	<b>0</b>	<b>1.5</b>	<b>3.5</b>	<b>2.0</b>		
Yellow Skin Type	Alegria	271	347	78	7	74	4	15	1.056	0	90	10	0	2.0	4.0	1.5	dark yellow flesh
	Julinka	219	371	59	22	59	0	19	1.054	0	70	0	0	3.0	4.0	1.5	
	Soraya	197	371	53	10	53	0	37	1.063	0	100	0	0	0.0	4.0	2.0	dark yellow fresh
	NY149	164	357	46	35	46	0	19	1.048	0	100	0	0	0.0	3.5	2.0	
	M5V093-1Y	153	323	47	10	39	8	43	1.055	0	50	0	0	2.0	N/A	5.0	
	Malou	136	267	51	49	51	0	0	1.046	0	80	0	0	3.0	4.0	1.0	small round tuber shape
	Satina	125	247	51	9	51	0	40	1.041	0	90	0	0	1.5	4.5	3.5	severe sticky stolons, misshapened tubers
	Wega	117	268	44	26	44	0	30	1.051	0	70	0	0	2.0	3.5	1.0	dark yellow flesh, knobs in pickouts
NYL30-5	100	324	31	31	31	0	38	1.048	0	100	0	0	2.0	4.0	3.0	conjoined tubers via stems, heat sprouting	
Round White Type	MSQ131-A	342	346	99	1	45	54	0	1.044	0	40	40	0	3.0	N/A	2.5	
	<b>Reba</b>	<b>336</b>	<b>356</b>	<b>95</b>	<b>5</b>	<b>69</b>	<b>26</b>	<b>0</b>	<b>1.063</b>	<b>0</b>	<b>40</b>	<b>0</b>	<b>0</b>	<b>1.5</b>	<b>3.0</b>	<b>2.5</b>	
	M5V179-1	254	261	97	1	79	18	2	1.053	0	30	0	0	1.5	2.5	3.0	
Novelty Type	Blue Belle	49	91	54	39	54	0	7	1.036	0	90	0	0	1.5	2.5	5.0	
<b>MEAN</b>		<b>199</b>	<b>287</b>	<b>69</b>	<b>17</b>	<b>59</b>	<b>10</b>	<b>15</b>	<b>1.051</b>	<b>0</b>	<b>72</b>	<b>5</b>	<b>1</b>	<b>1.7</b>	<b>3.3</b>	<b>2.8</b>	tr = trace, sl = slight, N/A = not applicable SED = stem end defect, gc = growth crack

<sup>1</sup>SIZE CLASSIFICATIONS

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

Russets  
Bs: < 4 oz.  
As: 4 - 10 oz.  
OV: > 10 oz.  
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  
PO: Pickouts

<sup>4</sup>VINE VIGOR RATING

Date: 9-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: 29-Apr-16  
Vines Killed: 19-Aug-16  
Days from Planting to Vine Kill: 112  
Seed Spacing: 10"  
Fumigation: No

<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

<sup>6</sup>MAWN STATION: Petersburg  
Planting to Vine Kill

# 2016 Freshpack Potato Variety Trial Kitchen Farms, Antrim County, MI

Harvest 24-Oct-16 154 Days  
DD, Base 40<sup>5</sup> 2785

TUBER TYPE	LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>					SP GR	RAW TUBER QUALITY <sup>2</sup> (%)				COMMON SCAB		VIGOR <sup>4</sup>	MATURITY <sup>5</sup>	COMMENTS
		US#1	TOTAL	US#1	Bs	As	OV	PO		HH	VD	IBS	BC	RATING <sup>3</sup>	VINE			
Red Skin Type	Red La Soda	683	711	96	4	68	28	0	1.061	0	60	10	10	2.0	3.0	2.5	deep eyes, 2.5 powdery scab, silver scurf, light red skin color	
	Red La Soda 10-3	648	697	93	5	75	18	2	1.061	0	10	0	10	2.0	2.0	2.5	deep eyes, sl silver surf, 1.5 powdery scab	
	Red Carolina	570	664	86	5	76	10	9	1.058	0	70	10	0	1.0	3.0	3.0	light red netted skin, moderate silver scurf, powdery scab	
	NY159	564	619	91	6	83	8	3	1.056	0	40	0	0	0.5	2.5	3.0	medium red skin, severe silver scurf	
	Red La Soda NY	536	588	91	7	68	23	2	1.058	0	70	0	10	1.5	2.5	3.5	2.5 powdery scab, deep eyes, silver scurf	
	Nordonna	503	560	90	8	71	19	2	1.066	10	30	20	10	5.0	2.0	3.5	silver scurf	
	Merlot	489	605	81	15	81	0	4	1.071	0	50	0	0	2.0	2.0	3.0	medium yellow flesh, oval to oblong tuber type, medium red skin color	
	ND7132-1R	488	603	81	5	81	0	14	1.059	0	20	0	0	0.0	2.5	4.0	1.0 powdery scab, nice red skin color, oval tuber type, silver scurf	
	Dakota Ruby	480	638	75	22	75	0	3	1.071	10	90	0	0	1.0	2.0	3.0	sl silver scurf, pointed tuber type	
	AF4985-1R	438	522	84	7	81	3	9	1.064	0	10	0	0	0.0	1.5	3.5		
	Dark Red Chieftan	429	489	88	12	88	0	0	1.063	0	80	0	0	1.0	2.0	3.0	severe silver scurf	
	CO098012-5R	417	520	80	19	80	0	1	1.075	0	30	0	0	2.0	2.0	3.0	sl silver scurf	
	<b>Dark Red Norland</b>	<b>401</b>	<b>487</b>	<b>82</b>	<b>18</b>	<b>79</b>	<b>3</b>	<b>0</b>	<b>1.059</b>	<b>10</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>2.5</b>	<b>1.5</b>	<b>silver scurf</b>	
	AF4831-2R	366	434	84	12	84	0	4	1.059	0	30	0	0	1.0	2.0	3.5	silver scurf, 1.0 powdery scab	
	Red Endeavor	342	464	74	26	74	0	0	1.061	0	40	0	0	0.0	2.5	1.5	silver scurf, uniform round tuber type, light netted skin	
	<b>Red Norland</b>	<b>312</b>	<b>390</b>	<b>80</b>	<b>20</b>	<b>80</b>	<b>0</b>	<b>0</b>	<b>1.052</b>	<b>0</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>0.5</b>	<b>2.5</b>	<b>1.5</b>	<b>3.0 powdery scab, light red skin</b>	
	Ciklamen	296	394	75	22	75	0	3	1.084	10	60	0	0	2.5	2.0	4.0	light red skin color, silver surf	
	ND6002-1R	266	299	89	10	77	12	1	1.065	0	50	0	0	0.0	2.0	1.5	silver scurf	
CO00291-5R	217	264	82	16	82	0	2	1.062	0	100	0	0	2.5	1.0	4.5	dark red skin color, silver scurf		
Modoc	211	351	60	39	60	0	1	1.060	10	50	10	0	1.0	1.0	1.5	reddish pink skin		
MSW343-2R	200	264	76	23	74	2	1	1.055	0	40	0	0	0.5	0.5	1.5	pink skin, sl silver scurf		
Russet Type	Caribou Russet	589	645	91	5	65	26	4	1.078	0	60	0	0	0.5	2.0	3.0	sl alligator hide, moderate pinkeye	
	ND050032-4Rus	587	752	78	14	71	7	8	1.083	0	30	0	0	0.0	1.5	3.0	light russet skin, nice tuber type	
	CW08221-5Rus	569	696	82	11	70	12	7	1.058	20	20	0	0	0.0	2.5	3.5	heavy russet skin type	
	A03141-6Rus	558	625	89	2	63	26	7	1.089	20	40	0	0	2.0	2.0	4.0	light russet skin type	
	TX08352-5Rus	506	587	86	13	86	0	1	1.062	0	50	0	0	0.0	1.0	2.5	russeted skin, nice tuber shape	
	<b>Russet Norkotah</b>	<b>503</b>	<b>631</b>	<b>80</b>	<b>17</b>	<b>80</b>	<b>0</b>	<b>3</b>	<b>1.069</b>	<b>20</b>	<b>30</b>	<b>10</b>	<b>0</b>	<b>0.0</b>	<b>1.5</b>	<b>2.0</b>	<b>moderate russet skin, nice tuber shape</b>	
	A06862-18VRRus	500	599	84	12	75	9	4	1.082	10	70	0	0	1.5	3.0	4.5	light russet skin type	
	W9433-1Rus	497	578	86	6	80	6	8	1.078	0	10	0	0	0.0	1.5	4.0	2.0 powdery scab	
	A09001-12TE	486	548	89	11	82	7	0	1.084	0	50	0	0	1.0	2.5	3.0	3.0 powdery scab	
	A06021-1T	454	564	80	17	74	6	3	1.080	40	40	10	10	0.0	1.5	3.5	slight eyebrowing	
	Mountain Gem Russet	452	517	87	11	87	0	2	1.080	20	70	0	0	0.0	1.0	4.0	small tuber type	
	Pioneer Russet	447	498	90	9	78	12	1	1.074	0	40	0	0	0.0	1.5	2.5	medium russet skin type	
	Reveille Russet	426	563	76	7	57	19	17	1.058	0	20	0	0	0.0	0.0	3.5	severe gc and knobs in pickouts	
	W9742-3Rus	413	579	71	8	65	6	21	1.096	0	40	0	0	1.5	1.5	4.0	severe points and pear shaped tubers, light russet skin type, heavy lenticels	
	AO03123-2Rus	399	510	78	19	74	4	3	1.085	10	40	10	0	0.0	2.0	4.0	1.0 powdery scab	
	A096305-3Rus	391	481	81	17	77	4	2	1.089	10	30	0	0	1.0	2.0	4.0	light russet skin type	
	A02507-2LB	380	497	76	14	76	0	10	1.083	0	50	0	0	0.0	1.0	4.0	dark russet skin type, knobs in pickouts	
	COTX09052-2Rus	359	464	77	21	75	2	2	1.068	0	90	0	0	0.0	0.5	2.5	sl alligator hide	
	<b>GoldRush Russet</b>	<b>358</b>	<b>462</b>	<b>78</b>	<b>19</b>	<b>70</b>	<b>8</b>	<b>3</b>	<b>1.066</b>	<b>0</b>	<b>40</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>2.0</b>	<b>2.5</b>	<b>sl alligator hide</b>	
	Dakota Russet	344	432	80	13	80	0	7	1.074	10	0	0	0	1.0	0.5	3.5	heavy russeted skin	
	WND8625-2Rus	336	492	68	18	65	3	14	1.077	0	50	0	0	0.0	2.0	3.0	heavy russet skin type	
	AF5179-4Rus	297	376	79	15	73	6	6	1.082	0	30	0	0	2.0	2.0	4.0	moderate alligator hide	
CO05068-1Rus	282	447	63	35	63	0	2	1.083	10	60	0	10	0.5	2.0	4.5			
AC96052-1Rus	281	361	78	22	78	0	0	1.079	10	20	0	0	0.0	1.0	4.0	small uniform tuber type, dark russet skin type		
<b>Silverton Russet</b>	<b>272</b>	<b>351</b>	<b>78</b>	<b>15</b>	<b>66</b>	<b>12</b>	<b>7</b>	<b>1.063</b>	<b>40</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>0.5</b>	<b>1.5</b>	<b>4.0</b>	<b>medium dark russet skin, sl alligator hide</b>		
CO05175-1Rus	271	429	63	32	59	4	5	1.081	30	50	0	0	0.5	2.5	4.0			
AF4124-7Rus	256	344	75	8	75	0	17	1.078	0	10	0	0	1.0	1.5	3.0	lightly russeted skin, non uniform tuber type		
COTX09022-3RusRE/Y	214	306	70	29	70	0	1	1.074	0	40	0	0	0.0	2.5	2.0	round tuber shape, pink eyes, yellow flesh, russeted skin		

Continued on Next Page

TUBER TYPE	LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>					SP GR	RAW TUBER QUALITY <sup>2</sup> (%)				COMMON			COMMENTS
		US#1	TOTAL	US#1	Bs	As	OV	PO		HH	VD	IBS	BC	RATING <sup>3</sup>	VIGOR <sup>4</sup>	MATURITY <sup>5</sup>	
Yellow Skin Type	Satina	699	844	83	8	81	2	9	1.067	0	50	0	0	1.0	3.0	4.0	1.5 powdery scab, nice yellow skin
	Soraya	623	746	83	4	75	8	13	1.061	0	20	0	0	0.0	2.0	4.0	nice deep yellow flesh and clean skin, oval tuber shape, misshapened pickouts
	MSV093-1Y	582	634	92	7	83	9	1	1.067	0	40	0	0	0.5	3.0	3.0	4.0 powdery scab, flat round tuber type, medium yellow flesh
	Alegria	516	573	90	9	84	6	1	1.067	0	50	10	0	0.0	3.0	4.0	dark yellow flesh, 1.0 powdery scab
	Elfe	504	668	75	17	75	0	8	1.059	0	60	0	0	0.5	3.0	2.0	2.5 powdery scab, some pointed tubers
	NY149	502	637	79	17	79	0	4	1.078	0	30	0	0	0.0	3.0	3.5	2.5 powdery scab, pink eyes, oval shape, moderate yellow flesh
	Jelly	491	560	88	7	87	1	5	1.071	0	90	0	10	0.0	2.5	4.5	medium yellow flesh, uniform oval tuber type
	Yukon Gold	473	522	91	3	77	14	6	1.079	10	40	0	0	1.5	2.0	2.5	1.0 powdery scab, pink eyes, medium yellow flesh
	Julinka	462	584	79	14	79	0	7	1.063	0	80	0	0	2.0	2.5	2.5	dark yellow flesh
	<b>Lehigh</b>	<b>459</b>	<b>555</b>	<b>83</b>	<b>4</b>	<b>76</b>	<b>7</b>	<b>13</b>	<b>1.077</b>	<b>0</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>1.0</b>	<b>4.0</b>	<b>medium yellow flesh, light netted skin</b>
	Viviana	445	594	75	14	75	0	11	1.060	0	20	0	0	1.5	2.5	1.5	oval pear shaped tubers
	Malou	415	496	84	16	80	4	0	1.057	0	90	0	0	2.0	3.0	1.5	
	Wega	372	495	75	17	74	1	8	1.057	0	20	0	0	0.0	1.5	4.0	oblong tuber type, medium yellow flesh
	NYL30-5	357	473	76	23	76	0	1	1.074	0	50	0	0	0.0	3.0	4.0	pink eyes, oval tuber type, 2.5 powdery scab, medium yellow flesh
Smart	333	487	68	26	68	0	6	1.061	0	40	0	0	0.5	2.0	3.5	dark yellow flesh, oblong oval tuber type, nice skin	
Oneida Gold	284	393	72	25	69	3	3	1.068	0	80	0	0	0.5	3.0	4.0	small round uniform tuber type	
Round White Type	<b>Reba</b>	<b>430</b>	<b>469</b>	<b>92</b>	<b>7</b>	<b>88</b>	<b>4</b>	<b>1</b>	<b>1.069</b>	<b>0</b>	<b>20</b>	<b>0</b>	<b>1.5</b>	<b>2.0</b>	<b>3.0</b>	<b>blocky oval tuber type, bright skin</b>	
	MSV179-1	402	432	93	4	69	24	3	1.067	0	20	0	0	1.0	1.0	3.5	cream colored flesh, nice uniform round shape
Novelty Tuber Type	W9962-1RY/Y	581	627	93	5	82	11	2	1.053	0	50	0	0	0.0	1.5	3.5	lightly netted skin
	MSR226-1RR	328	467	70	26	70	0	4	1.062	0	50	0	0	0.0	1.5	2.5	3.5 powdery scab, red colored flesh, pear shaped
	MSX001-4WP	267	300	89	8	55	34	3	1.055	0	50	0	0	0.0	1.5	2.5	1.0 powdery scab, purple flesh
	MSX324-1P	259	411	63	25	63	0	12	1.073	0	20	0	0	0.0	2.0	2.5	2.0 powdery scab, moderate silver scurf, purple skin
	MSR226-ARR	247	356	69	31	69	0	0	1.068	0	0	0	0	1.0	1.0	4.0	red skin red flesh
	Blue Belle	242	340	71	29	70	1	0	1.065	0	70	0	0	1.5	2.5	4.5	
Amarosa	222	261	85	15	85	0	0	1.067	0	60	0	0	1.0	0.5	3.5	fingerling tuber type, red skin, red flesh	
<b>MEAN</b>		<b>416</b>	<b>511</b>	<b>81</b>	<b>15</b>	<b>75</b>	<b>6</b>	<b>5</b>	<b>1.069</b>	<b>4</b>	<b>43</b>	<b>1</b>	<b>1</b>	<b>0.7</b>	<b>1.9</b>	<b>3.2</b>	tr = trace, sl = slight, NA = not available SED = stem end defect, gc = growth crack

<sup>1</sup>SIZE CLASSIFICATIONS  
Red/white/yellow    Russets  
Bs: < 1 7/8"    Bs: < 4 oz.  
As: 1 7/8"- 3.25"    As: 4 - 10 oz.  
OV: > 3.25"    OV: > 10 oz.  
PO: Pickouts    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: 21-Jun-16  
Ratings: 1 - 5  
1: Slow Emergence  
5: Early Emergence  
(vigorous vine, some flowering)

<sup>5</sup>VINE MATURITY RATING  
Date: 29-Aug-16  
Ratings: 1 - 5  
1: Early (vines completely dead)  
5: Late (vigorous vine, some flowering)

Planted: 23-May-16  
Vines Killed: 30-Aug-16  
Days from Planting to Vine Kill: 99  
Seed Spacing : 10"  
Fumigation: Yes  
<sup>6</sup>MAWN STATION: Gaylord  
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 Freshpack Potato Variety Trial VanDamme Farms, Delta County, MI

Harvest 3-Oct-16 132 Days  
DD, Base 40<sup>b</sup> 2762

TUBER TYPE	LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>					SP GR	RAW TUBER QUALITY <sup>2</sup> (%)				COMMON	VINE	VINE	COMMENTS
		US#1	TOTAL	US#1	Bs	As	OV	PO		HH	VD	IBS	BC	SCAB RATING <sup>3</sup>	VIGOR <sup>4</sup>	MATURITY <sup>5</sup>	
	ND050032-4Rus	542	573	95	4	66	29	1	1.085	0	0	0	0	0.0	2.0	3.5	
	A06862-18VRRus	516	586	88	8	54	34	4	1.085	0	0	0	0	0.0	5.0	4.5	
	<b>Silverton Russet</b>	<b>507</b>	<b>567</b>	<b>90</b>	<b>6</b>	<b>35</b>	<b>55</b>	<b>4</b>	<b>1.070</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>5.0</b>	<b>3.5</b>	
	AF5179-4Rus	498	562	88	5	39	49	7	1.087	0	0	0	0	0.0	3.0	4.5	
	A096305-3Rus	496	557	89	7	52	37	4	1.085	0	0	0	0	0.0	3.0	4.0	
	Caribou Russet	493	523	94	6	26	68	0	1.077	0	0	0	0	0.0	5.0	4.5	
	Mountain Gem Russet	472	521	90	9	51	39	1	1.079	0	0	0	0	0.0	3.0	4.5	
	AF4124-7Rus	453	474	96	3	31	65	1	1.085	0	0	0	0	0.0	4.0	3.0	
	CW08221-5Rus	451	533	85	14	71	14	1	1.066	0	0	0	0	0.0	4.0	2.5	
	A09001-12TERus	451	507	89	7	52	37	4	1.090	0	0	0	0	0.0	3.0	4.5	
	WND8625-2Rus	440	495	89	11	50	39	0	1.076	0	0	0	0	0.0	3.0	3.5	lots of oversize
Russet Type	A03141-6Rus	429	541	80	5	21	59	15	1.080	0	0	0	0	0.0	4.0	5.0	skinning, poor condition
	A02507-2LBRus	414	476	87	5	46	41	8	1.086	0	0	0	0	0.0	2.0	4.5	
	W9433-1Rus	406	429	95	5	32	63	0	1.081	0	0	0	0	0.0	3.0	3.5	
	Reveille Russet	403	482	83	5	54	29	12	1.070	0	0	0	0	0.0	3.0	3.5	sl skinning
	W9742-3Rus	383	438	87	7	44	43	6	1.093	0	0	0	0	0.0	3.0	4.5	
	Pioneer Russet	373	437	85	8	38	47	7	1.074	0	0	0	0	0.0	3.0	3.0	
	TX08352-5Rus	327	395	83	12	53	30	5	1.070	0	0	0	0	0.0	3.0	3.5	
	A06021-1TRus	306	364	84	16	64	20	0	1.078	0	0	0	0	0.0	4.0	2.0	
	AO03123-2Rus	295	357	82	18	56	26	0	1.076	0	0	0	0	0.0	3.0	4.0	
	Dakota Russet	282	336	84	16	77	7	0	1.080	0	0	0	0	0.0	3.0	4.5	
	AC96052-1Rus	217	287	76	23	69	7	1	1.081	0	0	0	0	0.0	3.0	4.5	nice tuber type
	COTX09052-2Rus	167	277	61	39	35	26	0	1.076	0	0	0	0	0.0	3.0	4.0	
	<b>Russet Norkotah</b>	<b>162</b>	<b>258</b>	<b>63</b>	<b>34</b>	<b>52</b>	<b>11</b>	<b>3</b>	<b>1.071</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>3.0</b>	<b>1.5</b>	
	Soraya	462	529	88	3	40	48	9	1.061	0	0	0	0	0.0	4.0	3.5	
	Julinka	440	552	80	15	58	22	5	1.073	0	0	0	0	0.0	3.0	4.5	
Yellow Type	MSV093-1Y	417	466	89	11	59	30	0	1.069	0	0	0	0	0.0	4.0	3.5	
	Viviana	360	469	76	17	71	5	7	1.068	0	0	0	0	0.0	4.0	2.5	
	Malou	197	307	64	36	64	0	0	1.068	0	0	0	0	0.0	3.0	2.0	
Red Type	Dakota Ruby	362	539	67	31	67	0	2	1.078	0	0	0	0	0.0	3.0	3.0	
	Dark Red Norland	355	411	87	12	79	8	1	1.067	0	0	0	0	0.0	5.0	1.5	
Novelty Type	Blue Belle	296	416	71	27	57	14	2	1.074	0	0	0	0	0.0	4.0	5.0	
<b>MEAN</b>		<b>387</b>	<b>458</b>	<b>83</b>	<b>13</b>	<b>52</b>	<b>31</b>	<b>3</b>	<b>1.077</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>3.4</b>	<b>3.6</b>	tr = trace, sl = slight, N/A = not applicable

SED = stem end defect, gc = growth crack

<sup>1</sup>SIZE CLASSIFICATIONS

Red/white/yellow Russets  
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: 11-Jul-16  
Ratings: 1 - 5  
1: Slow Emergence  
5: Early Emergence (vigorous vine, some flowering)

<sup>5</sup>VINE MATURITY RATING

Date: 31-Aug-16  
Ratings: 1 - 5  
1: Early (vines completely dead)  
5: Late (vigorous vine, some flowering)

Planted: 24-May-16  
Vines Killed: 7-Sep-16  
Days from Planting to Vine Kill: 106  
Seed Spacing: 12"  
Fumigation: None

<sup>6</sup>MAWN STATION: Escanaba  
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 Replicated Red/Yellow Tablestock Trial

## Walther Farms, Antrim Co., MI

Harvest 8-Sep-16

125 Days

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

2942

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>						RAW TUBER QUALITY <sup>2</sup> (%)					COMMON SCAB RATING <sup>4</sup>	VINE VIGOR <sup>5</sup>	VINE MATURITY <sup>6</sup>	Yellow Skin		Red Skin				Comments
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP	GR*	HH	VD	IBS	BC	SCAB RATING <sup>4</sup>	VIGOR <sup>5</sup>	MATURITY <sup>6</sup>	Waxiness <sup>9</sup>	Flesh Color <sup>9</sup>	Skin Color <sup>10</sup>	Uniformity <sup>11</sup>	Silver Scurf <sup>12</sup>	Waxiness <sup>8</sup>	
Yellow Skin Type	Soraya	454	541	82	11	78	4	9	1.059	0	7	0	0	0.0	4.3	3.2	2.5	2.8	-	-	-	-	oblong tuber type, heat sprouts, sl pinkeye, misshapened pickouts
	Alegria	411	466	89	9	85	4	2	1.072	0	17	0	0	0.5	4.5	3.0	2.0	2.2	-	-	-	-	oblong tuber shape, tr pinkeye
	Oneida Gold	382	465	82	17	78	4	1	1.074	0	0	10	3	0.8	4.2	3.1	1.6	2.5	-	-	-	-	nice uniform round tuber shape
	Allora	360	433	83	14	75	8	3	1.067	0	3	0	0	1.2	3.8	2.8	3.0	2.2	-	-	-	-	pinkeye, misshapened pickouts
	Wega	343	550	62	33	62	0	5	1.059	0	10	7	0	0.0	3.8	3.3	3.5	3.0	-	-	-	-	tr pinkeye, oblong tuber type
Red Skin Type	<b>Red Norland</b>	<b>475</b>	<b>522</b>	<b>91</b>	<b>8</b>	<b>88</b>	<b>3</b>	<b>1</b>	<b>1.066</b>	<b>0</b>	<b>13</b>	<b>3</b>	<b>7</b>	<b>0.8</b>	<b>4.5</b>	<b>1.8</b>	-	-	<b>2.1</b>	<b>2.8</b>	<b>4.0</b>	<b>2.3</b>	
	<b>Dark Red Norland</b>	<b>472</b>	<b>538</b>	<b>88</b>	<b>10</b>	<b>86</b>	<b>2</b>	<b>2</b>	<b>1.064</b>	<b>3</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>0.6</b>	<b>4.3</b>	<b>1.8</b>	-	-	<b>4.0</b>	<b>3.0</b>	<b>3.7</b>	<b>3.3</b>	
	Red La Soda 10-3	446	526	85	10	82	3	5	1.064	0	10	0	3	2.1	4.5	2.0	-	-	2.0	2.8	3.3	3.0	skinning, deep eyes
	Red Endeavor	339	452	75	22	75	0	3	1.060	0	10	0	0	1.2	3.8	2.5	-	-	4.0	4.6	1.5	2.2	pinkeye, uniform round tuber shape, rot, skinning
	Merlot	231	424	56	36	56	0	8	1.075	0	27	3	0	0.8	3.7	4.0	-	2.6	3.0	4.6	1.5	2.7	pear shaped tubers
Novelty Type	W9962-1RY/Y	428	558	76	20	76	0	4	1.061	0	17	0	0	0.7	4.7	2.0	-	2.0	2.0	4.7	1.3	2.3	heat knobs, sticky stolons
	Amarosa	53	354	13	85	13	0	2	1.073	0	30	0	0	0.5	2.8	4.0	-	-	4.7	4.2	2.0	3.3	long skinny tuber shape, pink mottled flesh
<b>MEAN</b>		<b>366</b>	<b>486</b>	<b>73</b>	<b>23</b>	<b>71</b>	<b>2</b>	<b>4</b>	<b>1.066</b>	<b>0</b>	<b>13</b>	<b>2</b>	<b>1</b>	<b>0.8</b>	<b>4.1</b>	<b>2.8</b>	<b>2.5</b>	<b>2.5</b>	<b>3.1</b>	<b>3.8</b>	<b>2.5</b>	<b>2.7</b>	tr = trace, sl = slight, N/A = not available
<b>LSD<sub>0.05</sub></b>		<b>119</b>	<b>111</b>	<b>13.6</b>	<b>10.2</b>	<b>14.5</b>	<b>NA</b>	<b>NA</b>	<b>0.002</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	1.2	0.4	<b>0.5</b>	<b>0.6</b>	<b>0.4</b>	<b>0.6</b>	<b>1.3</b>	<b>1.3</b>	<b>0.8</b>	SED = stem end defect, gc = growth crack
<b>ANOVA (Prob&gt;F)</b>		<b>&lt;.0001</b>	<b>0.01</b>	<b>&lt;.0001</b>	<b>&lt;.0001</b>	<b>&lt;.0001</b>	0.11	0.41	<b>&lt;.0001</b>	0.47	0.49	0.54	0.61	<b>0.065</b>	<b>&lt;.0001</b>	<b>&lt;.0001</b>	<b>0.0005</b>	<b>0.0004</b>	<b>&lt;.0001</b>	<b>0.009</b>	<b>0.002</b>	<b>0.02</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>5</sup>VINE VIGOR RATING  
Date: 21-Jun-16  
Ratings: 1 - 5  
1: Slow Emergence  
5: Early Emergence (vigorous vine, some flowering)

<sup>6</sup>VINE MATURITY RATING  
Date: 8-Aug-16  
Ratings: 1 - 5  
1: Early (vines completely dead)  
5: Late (vigorous vine, some flowering)

<sup>9</sup>WAXINESS RATING  
1: Heavy netting, buff  
5: Waxy, smooth

<sup>9</sup>FLESH COLOR RATING  
1: White colored  
5: Dark yellow

Planted: 6-May-16  
Vines Killed: 28-Aug-16  
Days from Planting to Vine Kill: 114  
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

<sup>10</sup>RED SKIN COLOR RATING  
1: Light pink colored  
5: Dark-red colored

<sup>11</sup>SKIN COLOR UNIFORMITY SCALE  
1: Highly variable, non-uniform  
5: Highly uniform color throughout tuber

<sup>12</sup>SILVER SCURF SCALE  
0: No incidence of silver scurf  
5: High incidence of silver scurf

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

# 2016 Replicated Red/Yellow Tablestock Trial

## Walther Farms, St. Joseph County, MI

Harvest 20-Sep-16 118 Days

DD, Base 40<sup>7</sup> 2913

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>					SP GR	RAW TUBER QUALITY <sup>2</sup> (%)				Yellow Skin		Red Skin				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	Waxiness <sup>3</sup>	Flesh Color <sup>3</sup>	Skin Color <sup>10</sup>	Uniformity <sup>11</sup>	Silver Scurf <sup>12</sup>	Waxiness <sup>3</sup>					
Red Carolina	548	686	80	12	80	0	8	1.049	0	13	0	0	-	-	1.3	4.0	2.7	2.7	2.8	4.0	3.3	oblong tuber shape	
Red La Soda 10-3	495	564	88	7	88	0	5	1.053	0	33	3	0	-	-	2.3	3.3	2.5	3.2	2.7	3.2	2.7		
NY159	478	546	88	8	88	0	4	1.052	0	7	0	0	-	-	2.8	3.0	3.0	2.5	2.2	2.8	2.8		
<b>Dark Red Norland</b>	<b>471</b>	<b>554</b>	<b>85</b>	<b>8</b>	<b>85</b>	<b>0</b>	<b>7</b>	<b>1.054</b>	<b>0</b>	<b>20</b>	<b>0</b>	<b>0</b>	-	-	<b>3.0</b>	<b>2.7</b>	<b>3.3</b>	<b>2.3</b>	<b>1.5</b>	<b>3.7</b>	<b>2.2</b>	<b>non-uniform tuber shape</b>	
ND6002-1R	448	515	87	13	87	0	0	1.055	0	33	0	0	-	-	2.5	2.0	3.7	3.0	2.2	2.7	2.7		
ND7132-1R	407	448	83	11	83	0	6	1.050	0	23	3	0	-	-	3.8	2.7	3.0	2.5	2.5	3.3	3.3		
AF4985-1R	406	470	87	7	86	1	6	1.052	0	3	0	0	-	-	3.0	3.3	3.2	3.3	0.8	3.0	2.7	severe skinning	
Dakota Ruby	393	532	74	25	74	0	1	1.057	0	0	0	0	-	-	4.0	3.2	4.0	3.0	1.0	3.3	3.0	uniform round tuber shape, skinning	
W8890-1R	383	488	79	21	79	0	0	1.053	0	20	0	0	-	-	3.7	3.3	2.7	3.0	1.0	3.5	2.7	nice skin set, good color, oval-oblong tuber shape	
AF4831-2R	322	516	62	37	62	0	1	1.050	0	0	0	0	-	-	2.5	2.7	3.3	3.0	1.7	3.8	2.2	sl skinning	
CO00291-5R	318	366	87	12	86	1	1	1.048	3	7	0	0	-	-	3.8	2.7	3.8	3.0	2.7	2.0	3.3		
CO098012-5R	241	409	59	40	59	0	1	1.047	0	3	0	0	-	-	4.3	4.3	3.0	3.2	3.2	3.3	3.3	uniform round tuber shape	
Ciklamen	67	327	20	78	20	0	2	1.071	0	13	0	0	-	-	1.0	4.0	3.0	3.0	1.8	3.2	3.2		
MSV093-1Y	508	553	92	7	83	9	1	1.059	0	7	0	0	3.0	1.6	-	-	-	-	0.8	3.0	3.0	round tuber shape	
Soraya	472	595	79	17	79	0	4	1.049	0	27	0	0	2.7	3.0	-	-	-	-	0.8	3.8	3.2	oblong tuber shape	
W9576-11Y	462	581	79	19	79	0	2	1.048	0	27	0	0	1.7	2.7	-	-	-	-	2.0	4.2	2.8	non-uniform flesh color	
NY149	427	538	79	18	79	0	3	1.062	0	27	7	0	2.0	2	-	-	-	-	1.8	4.0	3.3	pink colored eyes	
Jelly	413	532	78	20	78	0	2	1.066	0	0	0	0	1.7	2.5	-	-	-	-	1.8	3.7	4.0	uniform flesh color, oblong shape	
Viviana	387	562	69	29	68	1	2	1.052	0	17	3	0	2.2	2.3	-	-	-	-	3.0	4.3	2.3		
Malou	362	465	77	22	77	0	1	1.056	0	27	3	0	2.0	1.5	-	-	-	-	2.0	4.5	2.7		
Julinka	351	518	68	29	68	0	3	1.061	0	17	0	0	1.7	3.3	-	-	-	-	1.5	4.0	2.7	oblong tuber shape	
Elfe	304	509	59	37	59	0	4	1.061	0	7	0	0	2.8	2.7	-	-	-	-	2.2	4.3	2.7		
NYL30-5	295	453	65	32	65	0	3	1.068	0	7	0	0	2.3	1.8	-	-	-	-	2.5	3.5	2.7	non-uniform flesh color, light yellow skin	
Novelty Type	Blue belle	186	336	55	43	55	0	2	1.047	1	23	0	0	2.2	1.7	-	-	-	-	1.7	3.3	4.5	purple color around eyes
<b>MEAN</b>		<b>381</b>	<b>503</b>	<b>74</b>	<b>23</b>	<b>74</b>	<b>0</b>	<b>3</b>	<b>1.055</b>	<b>0</b>	<b>15</b>	<b>1</b>	<b>0</b>	<b>2.0</b>	<b>2.6</b>	<b>2.9</b>	<b>3.0</b>	<b>3.2</b>	<b>2.9</b>	<b>1.92</b>	<b>3.5</b>	<b>3.0</b>	tr = trace, sl = slight, N/A = not available
<b>LSD<sub>0.05</sub></b>		<b>71</b>	<b>71</b>	<b>6.1</b>	<b>5.3</b>	<b>6.2</b>	<b>1.5</b>	<b>3.6</b>	<b>0.005</b>	NA	<b>22.7</b>	NA	NA	NA	<b>0.55</b>	<b>0.72</b>	<b>1.050</b>	NA	NA	<b>0.90</b>	<b>0.5</b>	<b>0.6</b>	SED = stem end defect, gc = growth crack
<b>ANOVA (Prob&gt;F)</b>		<b>&lt;.0001</b>	<b>&lt;.0001</b>	<b>&lt;.0001</b>	<b>&lt;.0001</b>	<b>&lt;.0001</b>	<b>&lt;.0001</b>	<b>0.001</b>	<b>&lt;.0001</b>	0.48	<b>0.04</b>	0.64	NA	0.090	<b>&lt;.0001</b>	<b>0.006</b>	0.196	0.250	<b>&lt;.0001</b>	<b>&lt;.0001</b>	<b>&lt;.0001</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>5</sup>VINE VIGOR RATING  
Date: 29-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)

<sup>8</sup>WAXINESS RATING  
1: Heavy netting, buff  
5: Waxy, smooth

<sup>9</sup>FLESH COLOR RATING  
1: White colored  
5: Dark yellow

Planted: 25-May-16  
Vines Killed: 22-Aug-16  
Days from Planting to Vine Kill: 89  
Seed  
Cultivar: 10"  
Fumigation: No

<sup>7</sup>MAWN STATION: Constantine  
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

<sup>10</sup>RED SKIN COLOR RATING  
1: Light pink colored  
5: Dark-red colored

<sup>11</sup>SKIN COLOR UNIFORMITY SCALE  
1: Highly variable, non-uniform  
5: Highly uniform color throughout tuber

<sup>12</sup>SILVER SCURF SCALE  
0: No incidence of silver scurf  
5: High incidence of silver scurf

# 2016 Replicated Red/Yellow Tablestock Trial

## Walther Farms, Tuscola County, MI

Harvest 7-Sep-16 125 Days  
DD, Base 40<sup>7</sup> 2749

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>						RAW TUBER QUALITY <sup>2</sup> (%)				COMMON SCAB RATING <sup>4</sup>	VINE VIGOR <sup>5</sup>	VINE MATURITY <sup>6</sup>	Yellow Skin		Red Skin				COMMENTS	
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP	GR	HH	VD	IBS	BC				Waxiness <sup>8</sup>	Flesh Color <sup>9</sup>	Skin Color <sup>10</sup>	Uniformity <sup>11</sup>	Silver Scurf <sup>12</sup>		Waxiness <sup>8</sup>
Red Skin Type	Red Carolina	523	578	90	8	89	1	2	1.059	0	0	0	0	0.3	4.5	3.0	-	-	1.8	2.2	2.3	2.8	severe pinkeye, alligator hide
	<b>Dark Red Norland</b>	<b>445</b>	<b>497</b>	<b>90</b>	<b>5</b>	<b>84</b>	<b>6</b>	<b>5</b>	<b>1.062</b>	<b>3</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>0.5</b>	<b>4.2</b>	<b>1.7</b>	-	-	<b>3.3</b>	<b>3.5</b>	<b>3.7</b>	<b>3.8</b>	
	Red La Soda 10-3	430	491	88	9	85	3	3	1.061	0	17	0	0	0.2	3.8	3.0	-	-	2.3	3.5	3.0	3.8	deep eyes, non-uniform tuber type
	ND6002-1R	422	468	90	9	89	1	1	1.070	0	7	0	0	0.0	3.6	2.5	-	-	3.5	4.5	1.8	4.0	sl pinkeye, skinning
	NY159	380	439	86	9	73	13	5	1.056	0	0	7	0	0.5	3.7	2.7	-	-	3.5	3.5	2.7	3.5	alligator hide, moderate skinning
	AF4985-1R	358	425	84	11	79	5	5	1.062	0	13	0	0	0.2	3.2	2.5	-	-	3.7	4.2	2.8	4.2	skinning, misshapened tubers, deep eyes
	ND7132-1R	340	397	86	13	83	3	1	1.064	0	33	7	0	0.2	3.6	3.5	-	-	4.6	4.0	3.3	2.7	oval tuber shape, tr pinkeye
	AF4831-2R	292	434	68	32	67	1	0	1.062	0	13	0	0	0.0	3.8	3.0	-	-	3.2	3.8	2.0	3.8	oval tuber type, sl skinning
	W8890-1R	273	399	68	29	68	0	3	1.065	0	23	7	0	0.5	4.0	2.7	-	-	4.6	4.2	2.5	2.8	oval tuber type, rhizoctonia
	NDCO08165-1R	255	396	64	34	64	0	2	1.072	0	7	0	0	0.8	3.8	2.5	-	-	4.0	4.3	2.7	3.8	
	CO098012-5R	183	306	59	40	59	0	1	1.063	0	3	3	0	0.3	3.5	3.3	-	-	4.7	4.5	2.7	4.0	
Dakota Ruby	179	341	52	47	52	0	1	1.069	0	0	3	0	0.0	3.3	3.0	-	-	4.2	4.1	2.5	3.5	small uniform round tuber type	
Ciklamen	148	319	46	52	46	0	2	1.080	0	13	0	0	1.3	4.3	3.8	-	-	3.0	4.0	1.5	3.0	oblong, non-uniform tuber type	
CO00291-5R	110	195	57	41	57	0	2	1.054	0	7	0	0	1.0	2.5	4.0	-	-	4.2	4.3	1.2	4.2		
Yellow Skin Type	W9576-11Y	468	565	83	14	80	3	3	1.057	0	10	0	0	1.0	4.5	2.0	2.5	2.2	-	-	-	-	nice uniform tuber shape, pinkeye
	Viviana	441	522	84	12	80	4	4	1.060	0	3	3	0	0.5	4.5	1.8	4.0	2.0	-	-	-	-	tr pinkeye, alligator hide
	Jelly	414	468	88	10	84	4	2	1.070	0	13	0	13	0.0	4.0	4.0	2.2	2.3	-	-	-	-	blocky oblong tuber shape
	Malou	376	465	81	18	80	1	1	1.060	0	20	0	0	0.0	4.7	1.5	4.2	2.0	-	-	-	-	bright, uniform oval tuber shape
	NYL30-5	371	487	76	23	76	0	1	1.087	0	0	0	0	0.3	4.5	3.0	2.3	1.5	-	-	-	-	pink eyes, flat oval tuber shape
	NY149	361	422	80	19	80	6	1	1.074	3	7	0	0	0.3	4.5	3.3	1.0	1.8	-	-	-	-	light russetting, pink eyes,
	Soraya	349	489	71	10	70	1	19	1.056	0	7	7	0	0.2	3.8	3.5	2.5	3.0	-	-	-	-	sl alligator hide, non-uniform tuber type
	Julinka	332	455	73	23	72	1	4	1.066	0	7	3	0	0.0	4.2	1.6	4.0	1.8	-	-	-	-	oblong tuber shape, tr pinkeye
Elfe	300	462	64	30	64	0	6	1.070	0	7	0	0	0.3	4.3	1.8	3.7	2.2	-	-	-	-	non-uniform tuber type	
Novelty Type	Blue belle	169	238	70	30	69	1	0	1.055	0	17	0	0	0.0	3.3	5.0	2.3	1.8	-	-	-	-	purple splash around eyes, pinkeye
<b>MEAN</b>		<b>330</b>	<b>427</b>	<b>75</b>	<b>22</b>	<b>73</b>	<b>2</b>	<b>3</b>	<b>1.065</b>	<b>0</b>	<b>10</b>	<b>2</b>	<b>1</b>	<b>0.35</b>	<b>3.9</b>	<b>2.9</b>	<b>2.9</b>	<b>2.1</b>	<b>3.6</b>	<b>3.9</b>	<b>2.5</b>	<b>3.6</b>	tr = trace, sl = slight, N/A = not available
<b>LSD<sub>0.05</sub></b>		<b>69</b>	<b>63</b>	<b>9.3</b>	<b>8.3</b>	<b>8.4</b>	<b>4.6</b>	<b>2.7</b>	<b>0.01</b>	<b>NA</b>	<b>15.1</b>	<b>NA</b>	<b>1.9</b>	<b>NA</b>	<b>0.5</b>	<b>0.5</b>	<b>0.7</b>	<b>0.5</b>	<b>0.6</b>	<b>0.9</b>	<b>1.3</b>	<b>0.7</b>	SED = stem end defect, gc = growth crack
<b>ANOVA (Prob&gt;F)</b>		<b>&lt;.0001</b>	<b>&lt;.0001</b>	<b>&lt;.0001</b>	<b>&lt;.0001</b>	<b>0.0002</b>	<b>&lt;.0001</b>	<b>&lt;.0001</b>	<b>&lt;.0001</b>	<b>0.48</b>	<b>0.007</b>	<b>0.67</b>	<b>&lt;.0001</b>	<b>0.100</b>	<b>&lt;.0001</b>	<b>&lt;.0001</b>	<b>&lt;.0001</b>	<b>0.0012</b>	<b>&lt;.0001</b>	<b>0.001</b>	<b>0.04</b>	<b>0.0006</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>5</sup>VINE VIGOR RATING  
Date: 17-Jun-16  
Ratings: 1 - 5  
1: Slow Emergence  
5: Early Emergence (vigorous vine, some flowering)

<sup>6</sup>VINE MATURITY RATING  
Date: 8-Aug-16  
Ratings: 1 - 5  
1: Early (vines completely dead)  
5: Late (vigorous vine, some flowering)

<sup>8</sup>WAXINESS RATING  
1: Heavy netting, buff  
5: Waxy, smooth

<sup>9</sup>FLESH COLOR RATING  
1: White colored  
5: Dark yellow

Planted: 5-May-16  
Vines Killed: 12-Aug-16  
Days from Planting to Vine Kill: 99  
Seed Spacing: 10"  
Fumigation: No

<sup>7</sup>MAWN STATION: Fairgrove  
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

<sup>10</sup>RED SKIN COLOR RATING  
1: Light pink colored  
5: Dark-red colored

<sup>11</sup>SKIN COLOR UNIFORMITY SCALE  
1: Highly variable, non-uniform  
5: Highly uniform color throughout

<sup>12</sup>SILVER SCURF SCALE  
0: No incidence of silver scurf  
5: High incidence of silver scurf

# 2016 Strip Red/Yellow Tablestock Trial

## Walther Farms, St. Joseph County, MI

Harvest 20-Sep-16

118 Days

DD, Base 40<sup>7</sup> 2913

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>						RAW TUBER QUALITY <sup>2</sup> (%)				COMMON SCAB RATING <sup>4</sup>	VINE VIGOR <sup>5</sup>	VINE MATURITY <sup>6</sup>	Yellow Skin		Red Skin				COMMENTS	
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR	HH	VD	IBS	BC	RATING <sup>4</sup>	VIGOR <sup>5</sup>	MATURITY <sup>6</sup>	Waxiness <sup>8</sup>	Flesh Color <sup>9</sup>	Skin Color <sup>10</sup>	Uniformity <sup>11</sup>	Silver Scurf <sup>12</sup>	Waxiness <sup>8</sup>		
Red Skin Type	Red La Soda	589	615	96	4	93	3	0	1.050	0	10	0	0	1.0	4.0	3.0	-	-	2.0	2.0	2.0	3.0	
	Red La Soda NY Strain	507	556	91	7	83	8	2	1.055	0	10	10	20	1.0	3.5	2.5	-	-	2.0	2.0	4.0	2.0	
	<b>Red Norland</b>	<b>486</b>	<b>557</b>	<b>87</b>	<b>5</b>	<b>86</b>	<b>1</b>	<b>8</b>	<b>1.053</b>	<b>0</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>2.0</b>	<b>3.5</b>	<b>2.0</b>	-	-	<b>3.0</b>	<b>4.0</b>	<b>2.0</b>	<b>3.0</b>	
	MSW343-2R	450	501	90	7	90	0	3	1.050	0	0	0	0	1.5	3.0	2.5	-	-	2.0	2.0	4.0	3.0	
	Dark Red Chieftain	447	495	90	9	90	0	1	1.055	0	30	0	0	1.5	3.0	3.5	-	-	4.0	2.0	3.0	3.0	
	Red Endeavor	400	530	75	25	75	0	0	1.048	0	0	0	0	1.0	4.5	2.5	-	-	3.0	4.0	3.0	3.0	
	Modoc	399	570	70	30	70	0	0	1.053	0	0	0	0	2.0	3.5	2.0	-	-	3.0	3.0	3.0	2.0	nice skin
	NorDonna	318	463	69	10	69	0	21	1.054	0	20	0	0	1.0	3.5	3.5	-	-	2.0	2.0	3.5	3.0	knobs in pickouts, heat sprouts
	Merlot	209	378	55	44	55	0	1	1.065	0	20	0	0	1.0	3.0	4.0	-	2.0	1.0	4.0	3.0	3.0	
Yellow Skin Type	Oneida Gold	492	545	90	10	90	0	0	1.064	0	0	0	0	1.0	4.0	3.5	3.0	2.0	-	-	-	-	
	Yukon Gold	489	522	94	3	86	8	3	1.067	0	0	0	0	2.0	3.5	3.0	2.0	2.0	-	-	-	-	pinkish hue around eyes
	Alegria	479	525	91	8	90	1	1	1.061	0	0	0	0	1.8	3.3	3.3	2.3	2.0	-	-	-	-	
	Satina	466	529	88	8	88	0	4	1.050	0	0	0	0	1.0	4.0	4.3	2.8	2.3	-	-	-	-	
	Allora	465	634	73	17	73	0	10	1.055	0	0	0	0	1.0	4.0	3.0	2.0	1.5	-	-	-	-	
	<b>Lehigh</b>	<b>446</b>	<b>478</b>	<b>93</b>	<b>7</b>	<b>93</b>	<b>0</b>	<b>0</b>	<b>1.065</b>	<b>0</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>1.0</b>	<b>3.5</b>	<b>3.5</b>	<b>2.0</b>	<b>1.5</b>	-	-	-	-	
	MSW182-1Y	297	546	54	44	54	0	2	1.076	0	10	10	0	2.0	4.0	3.5	2.0	3.5	-	-	-	-	pinkish hue around eyes
	Wega	214	529	41	59	41	0	0	1.050	0	5	0	0	0.8	3.5	3.5	2.0	2.8	-	-	-	-	
	Smart	211	476	44	56	44	0	0	1.059	0	10	0	0	2.0	3.5	3.0	3.0	2.5	-	-	-	-	
Novelty Type	W9962-1RY/Y	441	524	84	14	84	0	2	1.053	0	30	0	0	1.0	3.0	2.5	-	1.5	1.5	-	-	2.0	
	MSX324-1P	378	497	76	22	76	0	2	1.070	0	0	0	0	1.0	4.0	2.5	-	-	-	3.0	4.0	3.0	dark purple skin
	MSX001-4WP	293	334	88	9	88	0	3	1.061	0	0	0	0	1.0	2.5	1.5	1.0	-	-	-	-	-	purple flesh
	MSW316-3PY	241	407	59	23	59	0	18	1.059	0	20	0	0	2.5	4.0	3.5	-	1.5	3.0	2.0	2.0	3.0	purple skin
	MSR226-ARR	143	326	44	56	44	0	0	1.057	0	20	0	0	1.0	3.0	2.0	-	-	5.0	2.0	4.0	2.0	
	MSR226-1RR	115	415	28	72	28	0	0	1.058	0	40	0	0	1.0	3.0	1.5	-	-	5.0	3.0	4.0	2.0	
	Amarosa	75	338	22	77	22	0	1	1.053	0	35	0	0	0.0	2.5	3.3	-	-	3.0	4.5	3.0	3.0	fingerling type, reddish pink flesh
	<b>MEAN</b>	<b>362</b>	<b>492</b>	<b>72</b>	<b>25</b>	<b>71</b>	<b>1</b>	<b>3</b>	<b>1.058</b>	<b>0</b>	<b>12</b>	<b>1</b>	<b>1</b>	<b>1.3</b>	<b>3.5</b>	<b>2.9</b>	<b>2.2</b>	<b>2.1</b>	<b>2.8</b>	<b>2.8</b>	<b>3.2</b>	<b>2.7</b>	tr = trace, sl = slight, N/A = 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  
(percent of tubers out of 10)  
HH: Hollow Heart  
VD: Vascular Discoloration  
IBS: Internal Brown Spot  
BC: Brown Center

<sup>5</sup>VINE VIGOR RATING  
Date: 17-Jun-16  
Ratings: 1 - 5  
1: Slow Emergence  
5: Early Emergence (vigorous vine, some flowering)

<sup>6</sup>VINE MATURITY RATING  
Date: 8-Aug-16  
Ratings: 1 - 5  
1: Early (vines completely dead)  
5: Late (vigorous vine, some flowering)

<sup>8</sup>WAXINESS RATING  
1: Heavy netting, buff  
5: Waxy, smooth

<sup>9</sup>FLESH COLOR RATING  
1: White colored  
5: Dark yellow

Planted: 25-May-16  
Vines Killed: 22-Aug-16  
Days from Planting to Vine Kill: 89  
Seed Spacing: 10"  
Fumigation: No

<sup>4</sup>COMMON SCAB RATING  
0.0: Complete absence of surface or pitted  
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>10</sup>RED SKIN COLOR RATING  
1: Light pink colored  
5: Dark-red colored

<sup>11</sup>SKIN COLOR UNIFORMITY SCALE  
1: Highly variable, non-uniform  
5: Highly uniform color throughout

<sup>12</sup>SILVER SCURF SCALE  
0: No incidence of silver scurf  
5: High incidence of silver scurf

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

# 2016 Strip Red/Yellow Tablestock Trial

## Walther Farms, Tuscola County, MI

Harvest 7-Sep-16 125 Days

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

2749

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>						SP GR	RAW TUBER QUALITY <sup>2</sup> (%)				COMMON SCAB RATING <sup>4</sup>		VINE VIGOR <sup>5</sup>	VINE MATURITY <sup>6</sup>	Yellow Skin		Red Skin			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>	Waxiness <sup>8</sup>	Flesh Color <sup>9</sup>	Skin Color <sup>10</sup>	Uniformity <sup>11</sup>	Silver Scurf <sup>12</sup>	Waxiness <sup>8</sup>		
Red Skin Type	MSW343-2R	554 593	93	7	85	8	0	1.055	0	0	0	0	0.0	3.5	2.0	-	-	2.5	4.5	1.0	4.0	uniform tuber type, deep eyed	
	Red La Soda NY	530 570	93	5	79	14	2	1.062	0	0	0	0	1.5	5.0	2.5	-	-	2.5	3.0	2.0	2.5	misshapened tubers	
	Red La Soda	482 520	93	6	84	9	1	1.063	10	40	0	20	1.0	5.0	4.0	-	-	2.5	4.0	2.0	4.0	misshapened tubers	
	Red Endeavor	467 606	77	23	74	3	0	1.061	0	30	0	0	0.0	4.5	2.5	-	-	4.0	4.0	2.0	3.0	moderate rot in field	
	<b>Red Norland</b>	<b>285 353</b>	<b>81</b>	<b>12</b>	<b>66</b>	<b>15</b>	<b>7</b>	<b>1.055</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1.0</b>	<b>4.0</b>	<b>2.0</b>	<b>-</b>	<b>-</b>	<b>2.5</b>	<b>1.0</b>	<b>4.0</b>	<b>2.5</b>		
	Dark Red Chieftain	260 300	87	13	78	9	0	1.060	0	30	0	0	0.5	4.0	3.0	-	-	5.0	5.0	2.0	3.5		
	Modoc	259 435	60	40	60	0	0	1.061	0	0	0	0	0.0	3.5	2.0	-	-	3.5	4.0	2.0	2.5	oblong tuber type	
	NorDonna	234 418	56	44	53	3	0	1.060	0	0	0	0	0.0	3.5	3.5	-	-	3.5	4.0	2.5	2.5		
Merlot	181 379	48	49	48	0	3	1.064	0	0	0	0	0.0	4.0	4.5	-	-	3.5	4.5	0.0	3.0			
Yellow Skin Type	Allora	450 526	85	12	85	0	3	1.068	0	0	0	0	0.0	4.0	3.0	4.0	2.0	-	-	-	-	uniform oval tuber shape	
	MSV093-1Y	432 489	88	12	75	13	0	1.067	0	30	0	0	0.0	5.0	4.5	1.5	2.0	-	-	-	-	uniform round tuber	
	Yukon Gold	408 451	90	6	68	22	4	1.075	0	0	0	0	0.0	5.0	2.0	2.0	2.0	-	-	-	-	moderate pink eye	
	Alegria	393 462	85	11	73	12	4	1.069	0	20	0	0	0.0	4.5	2.8	1.5	1.3	-	-	-	-	light russetting, oblong tuber shape	
	<b>Lehigh</b>	<b>390 408</b>	<b>96</b>	<b>4</b>	<b>68</b>	<b>28</b>	<b>0</b>	<b>1.073</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.5</b>	<b>4.0</b>	<b>3.0</b>	<b>1.0</b>	<b>2.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>light russetting</b>	
	Satina	322 369	87	13	84	3	0	1.061	0	10	0	0	0.3	4.3	4.3	2.0	2.0	-	-	-	-	uniform round tuber shape, alligator hide	
	Smart	306 449	68	26	68	0	6	1.064	0	25	0	0	0.0	4.0	2.0	3.5	2.5	-	-	-	-		
	Wega	281 485	58	41	58	0	1	1.057	0	5	0	0	0.3	3.8	3.0	3.3	2.8	-	-	-	-	oblong tuber shape	
	Oneida Gold	281 361	78	22	78	0	0	1.061	0	0	0	0	1.0	3.5	3.0	1.0	2.0	-	-	-	-	russeted skin	
MSW182-1Y	244 488	50	50	50	0	0	1.082	0	20	0	0	1.0	4.5	4.0	1.0	2.5	-	-	-	-	pink eyes on tubers		
Novelty Type	W9962-1RY/Y	374 428	88	11	82	6	1	1.056	0	60	0	0	0.0	3.5	2.5	-	2.0	2.5	4.0	2.5	2.0	heat sprouting w/ knobs	
	MSX324-1P	342 445	77	22	74	3	1	1.078	0	0	0	0	0.0	4.5	1.5	-	-	5.0	4.5	3.5	4.0	bright purple, medium deep eyes	
	MSW316-3PY	283 372	76	23	73	3	1	1.068	0	20	0	0	0.0	4.5	2.5	-	2.0	4.0	3.0	2.0	4.5	non-uniform tuber, purple skin	
	MSX001-4WP	243 259	94	6	62	32	0	1.062	0	0	0	0	0.0	4.0	2.0	-	-	-	-	-	-	grey in color, purple flesh visible through skin	
	MSR226-1RR	200 442	45	54	45	0	1	1.069	0	30	0	0	0.0	3.0	1.5	-	-	5	5	4	3	oblong non-uniform tuber	
	MSR226-ARR	110 289	38	59	38	0	3	1.068	0	70	0	0	0.0	3.0	1.5	-	-	5	5	3	3	dark purple flesh w/ white center, non-uniform tuber type	
	Amarosa	0 64	0	100	0	0	0	-	0	0	0	0	0.0	2.5	4.5	-	-	-	-	-	-	small tubers, pinkish mottled flesh	
<b>MEAN</b>		<b>320 421</b>	<b>73</b>	<b>26</b>	<b>66</b>	<b>7</b>	<b>1</b>	<b>1.065</b>	<b>0</b>	<b>15</b>	<b>0</b>	<b>1</b>	<b>0.27</b>	<b>4.0</b>	<b>2.8</b>	<b>2.1</b>	<b>2.1</b>	<b>3.6</b>	<b>3.9</b>	<b>2.3</b>	<b>3.1</b>	tr = trace, sl = slight, N/A = not available	

SED = stem end defect, qc = growth crack

<sup>1</sup>SIZE  
Bs: < 1.78"  
As: 1.78" - 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>5</sup>VINE VIGOR RATING  
Date: 17-Jun-16  
Ratings: 1 - 5

1: Slow Emergence  
5: Early Emergence (vigorous vine, some flowering)

<sup>6</sup>VINE MATURITY RATING  
Date: 8-Aug-16  
Ratings: 1 - 5

1: Early (vines completely dead)  
5: Late (vigorous vine, some flowering)

<sup>8</sup>WAXINESS RATING  
1: Heavy netting, buff  
5: Waxy, smooth

<sup>9</sup>FLESH COLOR RATING  
1: White colored  
5: Dark yellow

Planted: 5-May-16  
Vines Killed: 12-Aug-16  
Days from Planting to Vine Kill: 99  
Seed Spacing: 10"  
Fumigation: No

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

<sup>4</sup>COMMON SCAB RATING  
0.0: Complete absence of surface or pitted  
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>10</sup>RED SKIN COLOR RATING  
1: Light pink colored  
5: Dark-red colored

<sup>11</sup>SKIN COLOR UNIFORMITY SCALE  
1: Highly variable, non-uniform  
5: Highly uniform color throughout

<sup>12</sup>SILVER SCURF SCALE  
0: No incidence of silver scurf  
5: High incidence of silver scurf

# 2016 Freshpack Potato Variety Trial Wilks Farms, Presque Isle County, MI

Harvest 10-Oct-16 139 Days  
DD, Base 40<sup>b</sup> 2658

TUBER TYPE	LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>					RAW TUBER QUALITY <sup>2</sup> (%)				COMMON SCAB	VINE	VINE	COMMENTS	
		US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR	HH	VD	IBS	BC	RATING <sup>3</sup>	VIGOR <sup>4</sup>		MATURITY <sup>5</sup>
Russet Type	Dakota Russet	523	592	88	5	68	20	7	1.066	0	0	0	0	1.0	4.5	4.0	alligator hide
	W9433-1Rus	491	567	87	11	57	30	2	1.064	0	0	0	0	0.0	5.0	4.0	
	Mountain Gem Russet	487	567	86	13	80	6	1	1.068	0	0	0	0	0.5	4.5	4.5	
	Caribou Russet	466	563	83	8	36	47	9	1.060	0	40	0	0	0.0	5.0	2.5	
	TX08352-5Rus	453	550	82	12	58	24	6	1.057	0	10	0	0	0.0	4.5	3.0	
	W9742-3Rus	432	522	83	6	57	26	11	1.081	0	0	0	0	0.0	5.0	4.5	
	ND050032-4Rus	430	497	86	11	62	24	3	1.069	0	10	0	0	0.0	3.5	4.0	
	Reveille Russet	425	494	86	7	69	17	7	1.058	0	10	0	0	0.0	3.0	3.5	
	Pioneer Russet	419	491	85	8	68	17	7	1.059	0	0	0	0	0.0	4.5	4.0	
	Silverton Russet	388	451	86	13	64	22	1	1.058	0	20	0	0	0.5	4.5	4.5	moderate pinkeye, alligator hide
	COTX09052-2Rus	377	516	73	26	67	6	1	1.071	0	20	0	0	0.0	4.0	4.0	
	A06862-18VRRus	360	446	81	15	62	19	4	1.071	0	20	0	0	0.0	4.5	5.0	
	<b>Russet Norkotah</b>	<b>359</b>	<b>490</b>	<b>73</b>	<b>18</b>	<b>54</b>	<b>19</b>	<b>9</b>	<b>1.058</b>	<b>0</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>4.5</b>	<b>3.5</b>	
	AF4124-7Rus	355	496	72	6	31	41	22	1.063	0	10	0	0	0.0	5.0	4.0	pointed tuber type
	WND8625-2Rus	337	425	79	19	73	6	2	1.061	0	10	0	0	0.0	4.5	4.0	
	AC96052-1Rus	323	427	76	23	70	6	1	1.064	0	10	0	0	0.5	4.5	4.0	
	A03141-6Rus	314	459	68	7	48	20	25	1.070	0	0	0	0	0.0	5.0	5.0	knobs and heat sprouting
	A02507-2LBRus	286	361	79	13	67	12	8	1.065	0	0	0	0	0.0	3.0	4.5	
	A003123-2Rus	274	420	65	30	51	14	5	1.065	0	0	0	0	0.5	4.5	5.0	
	A096305-3Rus	270	340	79	19	58	21	2	1.064	20	0	10	0	1.5	4.0	4.0	
A06021-TRus	244	339	72	19	63	9	9	1.065	0	0	0	0	0.0	4.5	3.0		
COTX09022-3RusRe/Y	226	362	63	37	55	8	0	1.061	0	0	0	0	0.5	5.0	2.5		
A09001-12TERus	213	333	64	35	55	9	1	1.070	0	0	0	0	0.5	5.0	3.5		
<b>Goldrush Russet</b>	<b>187</b>	<b>335</b>	<b>56</b>	<b>24</b>	<b>37</b>	<b>19</b>	<b>20</b>	<b>1.063</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>4.5</b>	<b>3.0</b>		
Red Skin Type	Red La Soda 10-3	579	612	95	2	56	39	3	1.056	0	0	10	0	0.0	4.5	3.0	
	NY159	531	552	96	4	81	15	0	1.051	0	0	0	0	0.0	4.5	3.0	
	ND7132-1R	484	565	86	4	67	19	10	1.050	0	40	0	0	0.0	4.5	4.0	sticky stolons
	NorDonna	483	528	91	6	78	13	3	1.061	0	0	0	0	0.0	4.5	4.0	sticky stolons
	Red La Soda	478	513	93	5	52	41	2	1.056	0	0	0	0	0.0	4.5	3.5	
	Dark Red Chieftain	448	464	96	4	71	25	0	1.053	0	40	0	0	0.0	3.5	5.0	good overall appearance, netted skin
	Dakota Ruby	427	502	85	13	76	9	2	1.057	0	0	0	0	0.0	3.5	2.5	
	ND6002-1R	427	457	93	7	80	13	0	1.056	0	0	0	0	0.0	4.0	4.0	
	Red La Soda NY	398	435	92	5	53	39	3	1.050	0	0	10	0	0.0	4.5	3.0	deep apical eyes
	<b>Red Norland</b>	<b>384</b>	<b>407</b>	<b>94</b>	<b>5</b>	<b>79</b>	<b>15</b>	<b>1</b>	<b>1.047</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>4.5</b>	<b>2.5</b>	
	Red Endeavor	372	408	91	9	74	17	0	1.049	0	0	0	0	0.0	4.5	3.0	
	CO00291-5R	338	393	86	8	79	7	6	1.050	0	10	0	0	0.0	4.0	2.0	heat sprouting, knobs in pickouts
<b>Dark Red Norland</b>	<b>333</b>	<b>372</b>	<b>90</b>	<b>8</b>	<b>83</b>	<b>7</b>	<b>2</b>	<b>1.051</b>	<b>0</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>4.5</b>	<b>3.0</b>		
Modoc	321	395	81	12	79	2	7	1.048	0	0	0	0	0.0	3.5	2.0	pear shaped pickouts	
Yellow Skin Type	<b>Lehigh</b>	<b>569</b>	<b>590</b>	<b>96</b>	<b>2</b>	<b>47</b>	<b>49</b>	<b>2</b>	<b>1.057</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>1.0</b>	<b>4.5</b>	<b>3.5</b>	
	Satina	560	580	97	3	73	24	0	1.058	0	0	0	0	1.0	4.5	5.0	
	Soraya	558	608	92	5	90	2	3	1.046	0	0	0	0	0.0	4.0	4.0	
	Alegria	549	606	91	3	75	16	6	1.060	0	10	0	0	0.5	4.5	4.5	
	NYL30-5	487	558	87	12	83	4	1	1.064	0	0	0	0	1.0	4.0	3.0	pink eyes
	Wega	477	542	88	10	86	2	2	1.051	0	20	0	0	0.5	3.5	4.0	
	MSV093-1Y	441	474	93	4	76	17	3	1.055	0	30	0	0	0.0	5.0	3.5	
	NY149	420	463	91	8	73	18	1	1.058	0	10	0	0	0.0	4.5	3.5	
	Smart	405	496	82	14	82	0	4	1.057	0	50	0	0	0.5	4.5	3.0	
	Oneida Gold	310	347	90	10	86	4	0	1.058	0	0	0	0	0.5	4.5	4.0	
Novelty Type	W9962-1RY/Y	573	610	94	4	69	25	2	1.042	0	30	0	0	0.0	3.0	3.0	
	MSX001-4WP	397	411	97	3	61	36	0	1.051	0	0	0	0	0.0	4.0	2.5	
	Merlot	357	588	61	14	61	0	25	1.067	0	30	0	0	0.0	4.0	4.5	
	Amarosa	163	355	46	47	46	0	7	1.058	0	0	0	0	0.0	3.0	5.0	
Round White Type	MSV179-1	569	579	98	1	41	57	1	1.054	0	0	0	0	0.0	5.0	4.0	
	<b>Reba</b>	<b>526</b>	<b>547</b>	<b>96</b>	<b>1</b>	<b>45</b>	<b>51</b>	<b>3</b>	<b>1.056</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.5</b>	<b>4.5</b>	<b>4.0</b>	
<b>MEAN</b>		<b>407</b>	<b>481</b>	<b>84</b>	<b>11</b>	<b>65</b>	<b>19</b>	<b>5</b>	<b>1.059</b>	<b>0</b>	<b>9</b>	<b>1</b>	<b>0</b>	<b>0.2</b>	<b>4.3</b>	<b>3.7</b>	tr = trace, sl = slight, N/A = not applicable

SED = stem end defect, gc = growth crack

<sup>1</sup>SIZE CLASSIFICATIONS

Red/White/yellow Russets  
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: 08-Jul-16  
Ratings: 1 - 5  
1: Slow Emergence  
5: Early Emergence (vigorous vine, some flowering)

<sup>5</sup>VINE MATURITY RATING

Date: 30-Aug-16  
Ratings: 1 - 5  
1: Early (vines completely dead)  
5: Late (vigorous vine, some flowering)

Planted: 24-May-16  
Vines Killed: 15-Sep-16  
Days from Planting to Vine Kill: 114  
Seed Spacing: 10"  
Fumigation: None

<sup>6</sup>MAWN STATION: Hawks  
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 MSU Tablestock Potato Variety Trials

## Yellow Flesh Type

Entry	Pedigree	2015 Scab Rating*	Characteristics
Lehigh	Keuka Gold X Pike	0.0 (1)	High yield potential, round to oblong tuber shape, blackspot bruise resistance, common scab tolerance
Merlot	French Fingerling X Red Gold	1.0 (6)	High yield, small to medium oval tubers, medium to late maturity, red skin yellow flesh
Oneida Gold (W6703-1Y)	Satina X W2275-2Y	0.4 (6)	Good yield, medium maturity, slightly better shape than W6703-5Y, common scab tolerant, medium yellow flesh, buff to slightly netted skin type
Soraya	-	0.3 (6)	High yield, late maturity, large oval-oblong tubers with yellow skin and yellow flesh, low specific gravity
MSV093-1Y	McBride X MSP408-14Y	0.9 (6)	High yield potential, tolerance to common scab, round shape, nice yellow flesh, medium maturity
MSW182-1Y*	MSI005-20Y X POR02PG7-5	-	Potato for the “small potato market”. Gold skin with pink eyes and yellow flesh. High tuber set of small potatoes
W9576-11Y	Dakota Pearl X Gala	0.8 (2)	Medium maturity, high yield potential, buff skin type, nice yellow flesh color

\* First year in Michigan on-farm trials.

\*\*Scab rating based on 0-5 scale; 0 = most resistant and 5 = most susceptible. Common scab data provided by Potato Outreach Program (P.O.P.) with qualitative descriptions derived from P.O.P., MSU Potato Breeding and Genetics Program and other potato breeding programs.

# 2016 MSU Tablestock Potato Variety Trial

## Red Skin Type

Entry	Pedigree	2015 Scab Rating*	Characteristics
Dakota Ruby	ND7188-4R X ND5256-7R	0.5 (4)	Uniform round, smooth tubers with white flesh, vigorous vine, nice dark red skin, some possible issues with skin set
Red Norland	ND 626 X Red Kote	1.5 (5)	Early maturity, medium yield, low specific gravity, smooth round to oblong tubers, medium red skin color
AF4831-2R	ND028946B X ND8555-8R	-	A mid-season, red-skiinned, white-fleshed variety for fresh market. Tubers tend to be oblong are typically bright and attractive. It has moderate common scab and verticillium resistance. Cooking quality is very good
AF4985-1R	ND8555-8R X ND4756-1R	-	A mid-season, red-skin, white-fleshed variety for fresh market. Tubers are round, quite large, and are typically bright and attractive; can have growth cracking and greening in some conditions. Moderate common scab resistance. Cooking quality is very good
ND6002-1R	NorDonna x Bison	1.8 (4)	Uniform tubers, bright red skin, good yield potential, medium vine maturity and specific gravity, common scab susceptible
MSW343-2R*	MSQ440-2 X NDTX4172-5R	-	Early bulking red skin potato with some scab tolerance
ND7132-1R	ND5002-3R X ND5438-1R	1.6 (4)	Medium maturity and yield potential, bright red skin with white flesh, oval to oblong shape, common scab susceptible
W8890-1R*	-	-	Fresh market, dark red skin color and smaller size profile

\* First year in Michigan on-farm trials.

\*\*Scab rating based on 0-5 scale; 0 = most resistant and 5 = most susceptible. Common scab data provided by Potato Outreach Program (P.O.P.) with qualitative descriptions derived from P.O.P., MSU Potato Breeding and Genetics Program and other potato breeding programs.



# 2016 MSU Tablestock Potato Variety Trials

## Round white & Novelty type

Entry	Pedigree	2014 Scab Rating*	Characteristics
Onaway	USDA X96-56 X Katahdin	0.5 (1)	High yield, early maturity, round tuber type, low specific gravity, smooth skin, white flesh, medium deep eyes, few internal defects
Reba (NY 87)	Monona X Allegany	1.0 (5)	High yield, bright tuber appearance, low incidence of internal defects, mid to late season maturity, medium specific gravity
MSQ131-A	MSF373-8 X Missaukee	1.6 (2)	High yielding, large tuber size, round to oval tuber type, good internal quality, bright white skin
MSV179-1*	LBR8 X MSL211-3	-	Scab resistant round white potato with bright skin. Average yield
MST386-1P	Michigan Purple X Liberator	1.8 (3)	High yield potential, bright purple skin with white flesh, uniform round tubers. Color fades in storage
MSX324-1P*	MSN105-1 X Colonial Purple	-	Attractive purple skin, white fleshed potato with some scab tolerance
MSR226-1RR*	PoorpG1-4 x Durango Red	-	Red skin and red flesh. Oval shape. Does make chips. Moderate scab resistance.
MSR226-ARR*	PoorpG1-4 x Durango Red	-	Red skin and red flesh. Oval shape. Does make chips. Moderate scab resistance
MSW316-3PY*	POR04PG6-3 x Colonial Purple	-	Purple skinned and yellow fleshed potato with some scab tolerance

\* First year in Michigan on-farm trials.

\*\*Scab rating based on 0-5 scale; 0 = most resistant and 5 = most susceptible. Common scab data provided by Potato Outreach Program (P.O.P.) with qualitative descriptions derived from P.O.P., MSU Potato Breeding and Genetics Program and other potato breeding programs.

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**MSX001-4WP\***

**ARS10091WP X  
MSL211-3**

-

**White skinned round potato with deep  
purple flesh. Some scab tolerance. For the  
specialty market**

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\* First year in Michigan on-farm trials.

\*\*Scab rating based on 0-5 scale; 0 = most resistant and 5 = most susceptible. Common scab data provided by Potato Outreach Program (P.O.P.) with qualitative descriptions derived from P.O.P., MSU Potato Breeding and Genetics Program and other potato breeding programs.