

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

## **Data Summary: Michigan Russet Variety Trials**

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## 2017 Michigan Statewide Russet Potato Variety Trials Overall Averages - Twelve Locations

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					
W9433-1RUS <sup>g</sup>	678	878	77	2	24	53	21	1.088	20	0	60	0	0.5	2.5	3.0		
Caribou Russet <sup>del</sup>	558	602	93	5	68	24	2	1.078	3	40	3	3	0.3	4.0	3.3	medium russeted skin type	
A08433-4VRRUS <sup>ci</sup>	557	663	83	10	59	24	6	1.080	2	27	0	0	0.7	3.0	4.3		
A07061-6RUS <sup>bfijk</sup>	513	670	76	17	68	8	7	1.080	0	3	0	0	1.3	3.1	3.9		
Silverton Russet <sup>bctghijkl</sup>	<b>500</b>	<b>579</b>	<b>86</b>	<b>9</b>	<b>66</b>	<b>20</b>	<b>5</b>	<b>1.071</b>	<b>1</b>	<b>6</b>	<b>1</b>	<b>1</b>	<b>0.4</b>	<b>3.2</b>	<b>3.6</b>		
Russet Norkotah <sup>bcefgikhij</sup>	<b>487</b>	<b>590</b>	<b>82</b>	<b>11</b>	<b>60</b>	<b>22</b>	<b>7</b>	<b>1.078</b>	<b>18</b>	<b>7</b>	<b>2</b>	<b>0</b>	<b>0.5</b>	<b>3.3</b>	<b>2.6</b>		
COTX09022-3RURE/Y <sup>bfijl</sup>	483	593	81	13	73	8	7	1.084	5	8	5	0	1.4	3.1	3.3	pink eye splashes	
AF5179-4RUS <sup>bctfgijkl</sup>	468	583	81	6	53	28	13	1.089	0	9	4	0	2.0	2.4	3.8	tubular shape	
W10612-8RUS <sup>j</sup>	449	543	83	8	72	11	9	1.079	0	0	0	0	0.7	2.3	3.7		
A06021-1TRUS <sup>bfijk</sup>	445	530	84	10	62	21	6	1.081	7	5	2	0	0.5	2.5	3.0		
ND50032-4RUS <sup>bctghijkl</sup>	444	549	81	8	56	25	11	1.082	13	17	2	0	0.3	2.6	3.1	alligator hide, some net skin, skin not uniform, growth cracks	
Reveille Russet <sup>bctefghijkl</sup>	435	535	80	10	58	22	10	1.071	1	13	0	0	0.6	2.7	2.9	uniform russeted skin, growth crack in pickouts	
W10594-16RUS <sup>ij</sup>	432	579	75	16	67	8	9	1.081	0	0	0	0	0.8	2.3	3.6		
WND8625-2RUS <sup>bctghijkl</sup>	427	502	85	10	63	22	6	1.075	22	5	0	1	0.7	2.7	3.3	growth crack in pickouts	
AF5091-8RUS <sup>ci</sup>	413	557	75	9	53	22	16	1.071	0	13	0	0	0.3	2.8	2.7		
AF5312-1RUS <sup>bctfgijkl</sup>	413	547	74	19	65	9	7	1.071	1	3	0	0	0.2	3.0	2.8	good shape, nice dark russet skin, heat knobs	
W9742-3RUS <sup>bctefghijkl</sup>	411	483	85	6	60	25	9	1.093	3	5	1	0	0.6	2.6	3.2	some alligator hide, light russet skin type, growth cracks	
AF5468-5RUS <sup>ci</sup>	407	508	79	15	64	15	6	1.071	3	13	0	0	0.2	2.9	3.7		
TX08352-5RUS <sup>bctefghijkl</sup>	401	496	80	15	68	12	5	1.064	7	5	1	0	0.3	2.4	2.7	uniform dark russeted skin type, some greening	
<b>GoldRush<sup>ceffl</sup></b>	<b>365</b>	<b>462</b>	<b>79</b>	<b>15</b>	<b>72</b>	<b>7</b>	<b>6</b>	<b>1.076</b>	<b>3</b>	<b>25</b>	<b>0</b>	<b>0</b>	<b>0.1</b>	<b>3.6</b>	<b>2.5</b>		
Payette Russet <sup>bctefghijkl</sup>	340	450	76	10	60	14	16	1.086	5	8	0	0	0.4	1.5	3.7	some alligator hide, type not uniform, dark russeted skin	
WAF10073-3RUS <sup>bctefghijkl</sup>	338	503	66	21	55	11	13	1.070	0	0	0	0	0.5	2.6	3.0	some alligator hide, poor tuber shape	
CW08221-5RUS <sup>abctefghijkl</sup>	324	436	69	22	60	9	9	1.061	11	6	3	0	0.2	2.7	3.1	heavy russeted skin	
A06030-23RUS <sup>bfijk</sup>	316	435	70	18	54	16	12	1.081	13	7	1	0	0.4	2.1	2.8	alligator hide, severe growth crack in pickouts, pointed	
CO05175-1RUS <sup>f</sup>	288	383	72	18	72	0	10	1.080	30	30	0	0	0.0	3.0	4.5		
<b>MEAN</b>	<b>442</b>	<b>553</b>	<b>79</b>	<b>12</b>	<b>61</b>	<b>18</b>	<b>9</b>	<b>1.078</b>	<b>6</b>	<b>9</b>	<b>4</b>	<b>0</b>	<b>0.6</b>	<b>2.8</b>	<b>3.2</b>		

### 2017 Russet Variety Trial Sites

- <sup>a</sup>4-L Farms, Allegan County
- <sup>b</sup>Crawford Farms, Montcalm County
- <sup>c</sup>Elmaple Farms, Kalkaska County
- <sup>d</sup>Horkey Brothers, Monroe County
- <sup>e</sup>Jenkins Farms, Kalkaska County
- <sup>f</sup>Kitchen Farms, Antrim County
- gGlennard Ag. Company, St. Joseph County, MI
- <sup>h</sup>TJJ VanDamme Farms, Delta County
- <sup>i</sup>Walther Farms NFPT Trial Selected Varieties, St. Joseph County
- <sup>j</sup>Walther Farms Russet Norkotah Trial, St. Joseph County
- <sup>k</sup>Walther Farms Silverton Russet Trial, St. Joseph County
- <sup>l</sup>Wilk's Farms, Presque Isle County,

### <sup>1</sup>SIZE

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

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

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

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

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

### <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

# 2017 Tablestock Potato Variety Trial

## 4-L Farms, Allegan County, MI

Planting: 5/30 Vine Kill: 8/23 Harvest: 9/11  
GDD<sub>40</sub>: 2536

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	Cs	Bs	As	OV	PO	SP GR <sup>2</sup>	HH	VD	IBS	BC						
YELLOW SKIN TYPE	Soraya	283	356	80	2	10	80	0	8	1.052	0	0	0	0	0.5	3.5	3.5	inconsistent flesh color	
	W9576-11Y	279	355	79	4	14	79	0	3	1.053	0	0	0	0	0.0	3.0	3.0		
	Oneida Gold	226	290	78	4	18	78	0	0	1.060	0	10	0	0	0.5	3.5	4.0		
	Wega	171	291	59	3	38	59	0	0	1.052	0	20	0	0	0.5	3.0	4.0		
	Smart	154	306	50	6	43	50	0	1	1.059	0	0	0	0	1.0	3.5	3.5		
	Butterfly	110	278	39	13	48	39	0	0	1.057	0	0	10	0	0.0	3.0	4.0		some sticky stolons
	Annabelle	76	256	30	20	49	30	0	1	1.054	0	0	0	0	1.5	2.5	4.0		
Juliette	1	217	0	33	65	0	0	2	1.101	0	20	0	0	0.0	2.0	4.5			
<b>MEAN</b>		<b>162</b>	<b>294</b>	<b>52</b>	<b>11</b>	<b>36</b>	<b>52</b>	<b>0</b>	<b>2</b>	<b>1.061</b>	<b>0</b>	<b>6</b>	<b>1</b>	<b>0</b>	<b>0.5</b>	<b>3.0</b>	<b>3.8</b>		
RED SKIN TYPE	Fenway	330	416	79	3	18	79	0	0	1.059	0	0	0	0	0.5	4.0	3.0	Rizoctonia, skinning	
	Dakota Ruby	282	368	77	2	18	77	0	3	1.054	0	0	0	0	1.5	2.5	3.0		
	6049	275	328	84	1	15	84	0	0	1.053	0	0	0	0	0.5	3.5	4.5		
	AF4831-2R	264	378	70	2	26	70	0	2	1.054	0	20	0	0	0.5	3.0	3.5		
	W8890-1R	197	250	79	5	14	79	0	2	1.051	0	40	0	10	0.0	3.0	4.0		
<b>MEAN</b>		<b>269</b>	<b>348</b>	<b>78</b>	<b>3</b>	<b>18</b>	<b>78</b>	<b>0</b>	<b>1</b>	<b>1.054</b>	<b>0</b>	<b>12</b>	<b>0</b>	<b>2</b>	<b>0.6</b>	<b>3.2</b>	<b>3.6</b>		
NOVELTY TYPE	Amarosa	0	124	0	100	0	0	0	0	1.064	0	0	0	0	0.0	2.0	5.0	very small tuber size, sticky stolons	
	MSZ109-5RR	0	124	0	92	8	0	0	0	1.056	0	0	0	0	0.0	1.0	4.5		
<b>MEAN</b>		<b>0</b>	<b>124</b>	<b>0</b>	<b>96</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1.060</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>1.5</b>	<b>4.8</b>		
RUSSET TYPE	CW08221-5RUS	72	214	34	12	42	34	0	12	1.049	0	10	0	0	0.0	2.0	4.0	heavy russeted skin	
<b>TRIAL MEAN</b>		<b>170</b>	<b>284</b>	<b>52</b>	<b>19</b>	<b>27</b>	<b>52</b>	<b>0</b>	<b>2</b>	<b>1.058</b>	<b>0</b>	<b>8</b>	<b>1</b>	<b>1</b>	<b>0.4</b>	<b>2.8</b>	<b>3.9</b>		

<sup>1</sup>SIZE

**Non-russet tablestock**  
 Cs: < 1 1/2"  
 Bs: 1 1/2" - 1 7/8"  
 As: 1 7/8" - 3 1/4"  
 OV: > 3 1/4"  
 PO: Pickouts

**Russets**  
 Bs: < 4 oz  
 As: 4 - 10 oz  
 OV: > 10 oz  
 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: 6/27/17  
 Rating 1-5  
 1: Slow emergence  
 5: Early emergence (vigorous vine, some flowering)

<sup>6</sup>VINE MATURITY RATING

Date: 8/7/17  
 Rating 1-5  
 1: Early (vines completely dead)  
 5: Late (vigorous vines, some flowering)

FIELD DATA

Planting Date 5/30/17  
 Vine Kill Date 8/23/17  
 Harvest Date 9/11/17  
 Days (planting to vine kill) 70  
 Days (planting to harvest) 104  
 GDD<sub>40</sub> MAWN Station Allegan  
 GDD<sub>40</sub> (planting to vine kill) 2536  
 Seed Spacing 10"

# 2017 Tablestock 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				
YELLOW SKIN TYPE	Jelly	559	648	86	9	85	2	5	1.083	0	0	0	0	2.5	2.0	not taken
	Soraya	547	656	83	11	83	0	5	1.063	0	0	0	10	1.5	2.0	
	Alegria	540	593	91	7	88	3	2	1.079	0	0	0	0	1.5	1.5	
	Elfe	486	606	80	14	76	4	5	1.064	0	0	0	0	2.0	2.0	
	Allora	478	563	85	14	85	0	1	1.066	0	0	0	0	2.0	1.5	
	Montreal	474	570	83	10	78	5	6	1.069	0	20	10	0	2.0	2.5	
	Julinka	467	644	73	23	73	0	4	1.067	0	0	0	0	2.0	2.0	
	Musica	467	667	70	23	70	0	7	1.071	0	0	0	0	0.5	2.5	
	Wendy	463	673	69	29	66	2	3	1.064	0	0	0	0	2.0	1.0	
	NY161	456	560	82	17	82	0	1	1.077	0	0	0	0	1.5	2.0	eyes splashed purple
	W9576-11Y	442	572	77	21	77	0	2	1.060	0	0	0	0	0.0	1.5	some alligator hide
	Oneida Gold	432	511	84	15	84	0	1	1.077	0	0	0	0	1.5	2.0	
	<b>Yukon Gold</b>	<b>422</b>	<b>490</b>	<b>86</b>	<b>6</b>	<b>80</b>	<b>6</b>	<b>8</b>	<b>1.078</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2.0</b>	<b>2.0</b>	<b>pink eyes</b>
	Viviana	418	560	75	21	75	0	4	1.056	0	0	0	0	3.0	2.5	
	Queen Anne	378	507	75	24	75	0	1	1.059	0	0	20	0	0.5	1.0	
NY149	365	459	79	21	79	0	0	1.073	0	10	0	0	1.0	2.5	pink eyes	
Malou	364	544	67	32	67	0	1	1.063	0	0	0	0	2.5	3.0		
Wega	306	576	53	45	53	0	1	1.054	0	0	0	0	1.5	1.5		
	<b>MEAN</b>	<b>448</b>	<b>578</b>	<b>78</b>	<b>19</b>	<b>76</b>	<b>1</b>	<b>3</b>	<b>1.068</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1.6</b>	<b>1.9</b>	
RED SKIN TYPE	Cerata	636	698	91	9	89	2	0	1.071	0	0	0	0	2.0	2.0	
	ND7132-1R	480	540	89	8	81	8	4	1.063	0	20	10	0	4.0	1.5	
	Red Endeavor	441	548	80	16	80	1	4	1.061	10	0	0	0	3.0	2.0	
	W8890-1R	419	483	87	12	84	3	1	1.065	0	10	0	0	3.0	2.0	
	ND6002-1R	410	430	95	3	74	22	2	1.070	0	0	0	0	2.0	0.5	
	AF4831-2R	408	519	79	20	79	0	1	1.068	0	0	0	0	3.0	1.0	
	MSW343-2R	400	496	81	14	81	0	6	1.056	0	10	0	0	1.0	2.0	
	W8405-1R	360	497	72	26	72	0	2	1.069	0	0	40	0	1.5	2.0	oval tuber type
	Dakota Ruby	358	472	76	21	76	0	3	1.068	0	0	0	0	3.0	1.5	
	MSX569-1R	350	424	83	10	83	0	7	1.059	0	10	0	0	2.0	0.0	
	<b>Dark Red Norland</b>	<b>305</b>	<b>386</b>	<b>79</b>	<b>14</b>	<b>79</b>	<b>0</b>	<b>7</b>	<b>1.060</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.5</b>	<b>2.5</b>	
Lollipop	167	316	53	44	53	0	3	1.071	0	0	20	0	1.0	1.0		
	<b>MEAN</b>	<b>394</b>	<b>484</b>	<b>80</b>	<b>16</b>	<b>77</b>	<b>3</b>	<b>3</b>	<b>1.065</b>	<b>1</b>	<b>4</b>	<b>6</b>	<b>0</b>	<b>2.2</b>	<b>1.5</b>	
ROUND WHITE TYPE	<b>Reba</b>	<b>581</b>	<b>612</b>	<b>95</b>	<b>3</b>	<b>80</b>	<b>15</b>	<b>2</b>	<b>1.072</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2.0</b>	<b>2.5</b>	
	MSY111-1	547	602	91	6	76	15	3	1.073	0	0	0	0	1.5	1.5	
	AF4138-8	384	518	74	24	74	0	2	1.066	0	0	0	0	0.5	2.0	
	MSV179-1	382	404	95	3	83	12	2	1.072	0	0	0	0	0.0	1.0	
	MSU161-1	319	383	83	15	83	0	2	1.071	0	0	0	0	2.0	1.5	
	MSX497-6	287	318	90	7	87	4	3	1.063	0	0	0	0	2.5	1.5	
	<b>MEAN</b>	<b>417</b>	<b>473</b>	<b>88</b>	<b>10</b>	<b>80</b>	<b>8</b>	<b>2</b>	<b>1.070</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1.4</b>	<b>1.7</b>	

NOVELTY TYPE	AF5245-1P	353	419	84	13	84	0	3	1.071	0	0	0	0	1.0	3.0	
	AF5414-1RR	353	464	76	14	76	0	10	1.072	0	0	0	0	1.5	1.0	some purple flesh
	MSX324-1P	349	477	73	21	45	28	6	1.079	0	0	0	0	0.0	2.0	
	CO8155-2RUS/Y	182	407	45	47	45	0	9	1.073	0	0	0	0	1.5	2.0	cream flesh
	Amarosa	136	519	26	68	25	1	6	1.071	0	0	0	0	3.0	1.0	some pink flesh
	<b>MEAN</b>	<b>275</b>	<b>457</b>	<b>61</b>	<b>33</b>	<b>55</b>	<b>6</b>	<b>7</b>	<b>1.073</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1.4</b>	<b>1.8</b>	
RUSSET TYPE	<b>Silverton Russet</b>	<b>555</b>	<b>640</b>	<b>87</b>	<b>12</b>	<b>80</b>	<b>7</b>	<b>1</b>	<b>1.074</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.5</b>	<b>2.5</b>	
	WND8625-2RUS	469	542	86	7	65	22	7	1.076	40	10	0	0	3.0	2.0	
	CW08221-5RUS	454	555	82	13	62	20	5	1.062	0	0	10	0	0.0	1.5	heavy russetting
	TX08352-5RUS	454	548	83	11	73	10	6	1.065	10	10	0	0	1.0	1.0	
	AF5179-4RUS	448	542	83	8	55	28	9	1.088	0	10	10	0	4.0	1.0	tubular shape
	W9742-3RUS	437	487	90	5	59	31	5	1.096	0	0	0	0	0.5	1.5	some alligator hide
	AF5312-1RUS	421	514	82	14	77	5	4	1.075	0	0	0	0	0.0	2.0	good shape, nice skin
	ND050032-4RUS	399	506	79	12	73	6	9	1.081	0	30	0	0	0.0	1.0	alligator hide, some net skin
	Reveille Russet	398	487	82	7	59	22	11	1.065	0	30	0	0	2.5	1.0	
	<b>Russet Norkotah</b>	<b>369</b>	<b>507</b>	<b>73</b>	<b>21</b>	<b>65</b>	<b>8</b>	<b>7</b>	<b>1.069</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2.0</b>	<b>2.5</b>	
	A06021-1TRUS	361	466	78	16	68	10	7	1.082	10	0	0	0	1.0	2.0	
	A07061-6RUS	352	537	66	30	65	1	5	1.076	0	0	0	0	2.5	2.5	light skin type
	COTX09022-3RUS	351	484	73	23	72	1	5	1.082	0	0	0	0	2.0	2.5	pink eye splashes
WAF10073-3RUS	317	476	67	14	54	13	20	1.073	0	0	0	0	0.5	1.0	some alligator hide	
Payette Russet	231	412	56	15	46	10	29	1.084	10	0	0	0	1.0	0.0	some alligator hide	
A06030-23RUS	193	320	60	35	51	9	4	1.080	20	0	0	0	0.0	1.5	alligator hide	
	<b>MEAN</b>	<b>388</b>	<b>501</b>	<b>77</b>	<b>15</b>	<b>64</b>	<b>13</b>	<b>8</b>	<b>1.077</b>	<b>6</b>	<b>6</b>	<b>1</b>	<b>0</b>	<b>1.3</b>	<b>1.6</b>	
	<b>TRIAL MEAN</b>	<b>401</b>	<b>515</b>	<b>78</b>	<b>18</b>	<b>72</b>	<b>6</b>	<b>5</b>	<b>1.070</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>0</b>	<b>1.6</b>	<b>1.7</b>	

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

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

**Russets**  
Bs: < 4 oz  
As: 4 - 10 oz  
OV: > 10 oz  
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 vine, 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) 108  
Days (planting to harvest) 134  
GDD<sub>40</sub> MAWN Station Entrican  
GDD<sub>40</sub> (planting to vine kill) 2835  
Seed Spacing 10"

# 2017 Russet Variety Trial

## Elmable Farm, Kalkaska County, MI

Planting: 5/15 Vine Kill: 9/15 Harvest: 10/5  
GDD<sub>40</sub>: 2738

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				
A08433-4VRRUS	476	584	81	16	73	8	3	1.076	0	40	0	0	0.5	3.5	4.0	
W9742-3RUS	396	472	83	11	74	9	6	1.094	0	40	0	0	0.0	3.0	2.5	light russet skin type
<b>Silverton Russet</b>	<b>395</b>	<b>442</b>	<b>89</b>	<b>8</b>	<b>64</b>	<b>25</b>	<b>3</b>	<b>1.067</b>	<b>0</b>	<b>50</b>	<b>0</b>	<b>10</b>	<b>0.0</b>	<b>2.0</b>	<b>3.0</b>	
AF5179-4RUS	387	453	85	8	68	17	7	1.083	0	40	0	0	1.5	3.0	4.0	
<b>GoldRush</b>	<b>356</b>	<b>472</b>	<b>76</b>	<b>20</b>	<b>72</b>	<b>4</b>	<b>4</b>	<b>1.078</b>	<b>0</b>	<b>50</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>4.0</b>	<b>2.0</b>	
<b>Russet Norkotah</b>	<b>355</b>	<b>522</b>	<b>68</b>	<b>20</b>	<b>64</b>	<b>4</b>	<b>12</b>	<b>1.073</b>	<b>0</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>0.5</b>	<b>4.0</b>	<b>2.0</b>	
ND050032-4RUS	352	493	72	17	69	3	11	1.080	0	50	0	0	0.0	3.5	1.5	skin type not uniform
WND8625-2RUS	341	459	75	15	65	10	10	1.079	0	10	0	0	0.5	3.5	2.5	
AF5091-8RUS	334	438	76	16	75	1	8	1.071	0	30	0	0	0.0	4.0	1.5	
Reville Russet	319	489	65	26	60	5	9	1.073	0	50	0	0	0.0	3.0	1.5	
TX08352-5RUS	288	434	66	31	66	0	3	1.064	0	20	0	0	0.0	3.0	2.0	
AF5468-5RUS	286	435	66	30	61	5	4	1.075	0	20	0	0	0.0	3.5	4.0	
CW08221-5RUS	273	383	71	16	69	2	13	1.063	0	20	0	0	0.0	2.5	3.5	heavy russet skin type
Payette Russet	248	323	77	18	75	2	5	1.079	0	30	0	0	0.0	1.5	2.5	
AF5312-1RUS	225	385	58	35	52	6	7	1.068	0	20	0	0	0.0	2.0	1.5	nice dark russet skin type
WAF10073-3RUS	159	354	45	47	45	0	8	1.072	0	0	0	0	0.0	3.5	3.5	
<b>MEAN</b>	<b>324</b>	<b>446</b>	<b>72</b>	<b>21</b>	<b>66</b>	<b>6</b>	<b>7</b>	<b>1.075</b>	<b>0</b>	<b>31</b>	<b>0</b>	<b>1</b>	<b>0.2</b>	<b>3.1</b>	<b>2.6</b>	

### <sup>1</sup>SIZE

**Non-russet tablestock**      **Russets**  
Bs: < 1 7/8"      Bs: < 4 oz  
As: 1 7/8" - 3 1/4"      As: 4 - 10 oz  
OV: > 3 1/4"      OV: > 10 oz  
PO: Pickouts      PO: Pickouts

### <sup>2</sup>SPECIFIC GRAVITY

Data not replicated

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

**of tubers**  
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: 6/23/17  
Rating 1-5  
1: Slow emergence  
5: Early emergence (vigorous vine, some flowering)

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

Date: 8/22/17  
Rating 1-5  
1: Early (vines completely dead)  
5: Late (vigorous vines, some flowering)

### FIELD DATA

Planting Date      5/15/17  
Vine Kill Date      9/15/17  
Harvest Date      10/5/17  
Days (planting to vine kill)      123  
Days (planting to harvest)      143  
GDD<sub>40</sub> MAWN Station      Kalkaska  
GDD<sub>40</sub> (planting to vine kill)      2738  
Seed Spacing      10"

# 2017 Tablestock Variety Trial

## Horkey Brothers, Monroe County, MI

Planting: 4/27 Vine Kill: 8/25 Harvest: 9/13  
GDD<sub>40</sub>: 3282

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					
YELLOW SKIN TYPE	Musica	529	687	77	21	75	2	2	1.068	0	0	60	0	0.5	4.0	3.5	trace heat sprouts
	Jelly	527	596	88	5	82	6	7	1.079	0	50	0	0	0.0	3.0	4.5	
	Soraya	489	576	85	4	82	3	10	1.061	0	0	0	0	0.5	3.5	3.0	
	Queen Anne	422	557	76	17	75	1	7	1.061	0	0	0	0	0.0	2.5	3.0	
	Elfe	396	513	77	15	77	0	8	1.066	0	0	0	0	1.0	3.5	3.0	heat sprouts
	Allora	387	460	84	12	84	0	4	1.071	0	50	0	0	2.5	3.0	2.5	
	Malou	382	490	78	21	76	2	1	1.061	0	10	0	0	0.0	3.5	4.0	
	Montreal	369	515	72	27	71	1	1	1.062	0	10	0	0	3.0	4.5	3.0	
	Alegria	365	431	85	7	76	9	9	1.072	0	0	0	0	0.0	3.5	2.5	oblong tuber type, pink eyes on tubers
	NY149	356	485	73	23	72	2	4	1.075	0	50	0	0	1.0	3.5	3.0	sticky stolons, pink eyes on tubers
	Wega	349	493	71	21	71	0	8	1.065	0	30	20	0	0.5	2.5	3.0	
	W9576-11Y	320	453	71	29	71	0	0	1.059	0	70	0	0	0.5	4.5	2.0	buff netted skin type
Julinka	314	466	67	31	67	0	2	1.062	0	10	0	0	0.5	4.0	2.0		
Viviana	300	481	62	33	62	0	5	1.065	0	0	0	0	2.0	4.0	2.5		
	<b>MEAN</b>	<b>393</b>	<b>515</b>	<b>76</b>	<b>19</b>	<b>74</b>	<b>2</b>	<b>5</b>	<b>1.066</b>	<b>0</b>	<b>20</b>	<b>6</b>	<b>0</b>	<b>0.9</b>	<b>3.5</b>	<b>3.0</b>	
RED SKIN TYPE	ND7132-1R	598	696	86	7	75	11	7	1.057	0	20	10	0	2.0	3.5	3.0	sticky stolons
	AF4831-2R	499	642	78	22	78	0	0	1.062	0	0	30	0	2.0	3.0	2.5	skinning
	W8405-1R	447	573	78	20	78	0	2	1.062	0	50	50	0	3.0	4.0	2.5	
	Cerata	419	595	70	27	70	0	3	1.063	0	0	0	0	0.5	3.5	3.5	slight heat sprouts
	Dakota Ruby	416	509	82	18	82	0	1	1.066	0	10	0	0	3.5	3.5	2.0	uniform tuber type
	ND6002-1R	385	421	92	8	92	0	0	1.066	0	0	0	0	2.0	1.0	3.0	
	Dark Red Chieftain	383	430	89	5	75	14	6	1.067	10	0	0	0	1.5	2.5	1.5	slight sticky stolons
	W8890-1R	280	379	74	24	74	0	2	1.067	0	0	10	0	0.5	3.5	2.5	uniform tuber type
	MSX569-1R	239	275	87	9	83	4	4	1.054	0	0	0	0	0.5	2.0	1.5	
Lollipop	44	202	22	78	22	0	0	1.071	0	0	0	0	1.5	2.0	1.5		
	<b>MEAN</b>	<b>371</b>	<b>472</b>	<b>76</b>	<b>22</b>	<b>73</b>	<b>3</b>	<b>3</b>	<b>1.063</b>	<b>1</b>	<b>8</b>	<b>10</b>	<b>0</b>	<b>1.7</b>	<b>2.9</b>	<b>2.4</b>	
ROUND WHITE TYPE	MSY111-1	607	666	91	7	79	13	1	1.069	0	0	0	0	1.0	3.5	3.0	netted skin type, large round tuber type
	AF4138-8	468	554	84	13	83	1	3	1.063	0	50	0	0	0.0	3.5	2.5	
	NY157	381	435	88	12	86	2	1	1.077	0	40	0	0	0.5	3.0	3.0	uniform round type, medium netted skin
	MSV179-1	340	364	93	3	74	20	3	1.066	0	10	0	0	1.0	3.5	3.0	large round tuber type
	MSX497-6	290	297	98	2	80	18	0	1.068	0	10	0	0	0.0	2.5	3.0	bright appearance, uniform round type
	<b>Onaway</b>	<b>287</b>	<b>360</b>	<b>80</b>	<b>12</b>	<b>77</b>	<b>3</b>	<b>8</b>	<b>1.064</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>1.5</b>	<b>3.5</b>	<b>2.0</b>	<b>deep apical eyes</b>
	<b>Reba</b>	<b>280</b>	<b>334</b>	<b>84</b>	<b>6</b>	<b>70</b>	<b>14</b>	<b>10</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>2.5</b>	<b>bright appearance</b>
	<b>MEAN</b>	<b>379</b>	<b>430</b>	<b>88</b>	<b>8</b>	<b>78</b>	<b>10</b>	<b>4</b>	<b>1.068</b>	<b>0</b>	<b>17</b>	<b>0</b>	<b>0</b>	<b>0.6</b>	<b>3.2</b>	<b>2.7</b>	
NOVELTY TYPE	CO8155-2RUS/Y	271	405	67	23	65	1	10	1.073	0	0	0	0	0.5	4.5	2.0	cream colored flesh
	MSX324-1P	212	306	69	28	69	0	3	1.076	0	0	0	0	1.0	3.5	1.0	
	<b>MEAN</b>	<b>241</b>	<b>356</b>	<b>68</b>	<b>25</b>	<b>67</b>	<b>1</b>	<b>7</b>	<b>1.074</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.8</b>	<b>4.0</b>	<b>1.5</b>	

RUSSET TYPE	Reveille Russet	467	551	85	13	63	22	2	1.069	0	0	0	0	1.5	3.0	2.5	uniform russeted skin
	TX08352-5RUS	455	547	83	13	64	19	4	1.062	0	10	0	0	0.5	3.0	2.5	uniform russeted skin type
	Caribou Russet	445	472	94	5	56	38	1	1.078	0	70	10	0	0.5	4.0	2.5	medium russeted skin type
	AF5312-1RUS	331	518	64	23	59	5	13	1.078	0	0	0	0	0.0	3.5	3.0	heat knobs, dark russet skin type
	Payette Russet	308	438	70	13	66	4	17	1.085	0	0	0	0	1.0	2.0	3.5	not uniform, dark russeted skin
	WAF10073-3RUS	261	481	54	31	46	8	14	1.065	0	0	0	0	1.0	3.0	2.5	poor tuber shape
	W9742-3RUS	253	309	82	5	52	30	13	1.094	0	0	0	0	0.5	2.5	3.5	light russeted skin type
	<b>MEAN</b>	<b>360</b>	<b>474</b>	<b>76</b>	<b>15</b>	<b>58</b>	<b>18</b>	<b>9</b>	<b>1.076</b>	<b>0</b>	<b>11</b>	<b>1</b>	<b>0</b>	<b>0.7</b>	<b>3.0</b>	<b>2.9</b>	
	<b>TRIAL MEAN</b>	<b>369</b>	<b>471</b>	<b>78</b>	<b>17</b>	<b>71</b>	<b>6</b>	<b>5</b>	<b>1.068</b>	<b>0</b>	<b>14</b>	<b>5</b>	<b>0</b>	<b>1.0</b>	<b>3.3</b>	<b>2.6</b>	

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

**Non-russet tablestock**

Bs: < 1 7/8"

As: 1 7/8" - 3 1/4"

OV: > 3 1/4"

PO: Pickouts

**Russets**

Bs: < 4 oz

As: 4 - 10 oz

OV: > 10 oz

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: 6/9/17

Rating 1-5

1: Slow emergence

5: Early emergence (vigorous vine, some flowering)

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

Date: 8/7/17

Rating 1-5

1: Early (vines completely dead)

5: Late (vigorous vines, some flowering)

**FIELD DATA**

Planting Date

4/27/17

Vine Kill Date

8/25/17

Harvest Date

9/13/17

Days (planting to vine kill)

120

Days (planting to harvest)

139

GDD<sub>40</sub> MAWN Station

Deerfield

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

3282

Seed Spacing

10"



# 2017 Tablestock Variety Trial

## Jenkins Farms, Kalkaska County, MI

Planting: 5/15 Vine Kill: 8/28 Harvest: 9/19  
GDD<sub>40</sub>: 2652

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					
YELLOW SKIN TYPE	Jelly	662	719	92	8	90	2	0	1.103	0	20	0	0	0.0	3.5	3.5	no comments
	Soraya	572	680	84	9	84	0	7	1.062	0	0	0	0	0.5	4.0	3.0	
	Musica	491	679	72	28	72	0	0	1.071	0	20	0	0	0.5	4.0	2.5	
	Alegria	470	539	87	12	86	1	1	1.089	0	40	0	0	1.0	4.0	2.5	
	Effe	412	551	75	20	75	0	5	1.067	0	30	0	0	0.0	4.0	2.0	
	Wendy	388	691	56	44	56	0	0	1.071	0	0	0	0	1.0	4.0	3.0	
	Malou	384	506	76	22	76	0	2	1.064	0	20	0	0	1.0	4.5	2.0	
	Allora	359	455	79	21	76	3	0	1.068	0	10	0	0	0.5	4.0	2.0	
	Montreal	342	454	75	22	75	0	3	1.091	0	40	10	0	0.5	4.5	3.0	
	<b>Yukon Gold</b>	<b>332</b>	<b>398</b>	<b>83</b>	<b>15</b>	<b>83</b>	<b>0</b>	<b>2</b>	<b>-</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.5</b>	<b>4.0</b>	<b>2.5</b>	
	W9576-11Y	331	473	70	30	70	0	0	1.054	0	30	0	0	0.0	4.0	1.0	
	Queen Anne	264	513	52	47	52	0	1	1.061	0	20	0	0	1.0	3.5	2.5	
	Wega	243	512	47	48	47	0	5	1.087	0	10	0	0	0.0	4.0	2.5	
<b>MEAN</b>	<b>404</b>	<b>551</b>	<b>73</b>	<b>25</b>	<b>72</b>	<b>0</b>	<b>2</b>	<b>1.074</b>	<b>0</b>	<b>18</b>	<b>1</b>	<b>0</b>	<b>0.5</b>	<b>4.0</b>	<b>2.5</b>		
RED SKIN TYPE	Cerata	653	755	86	14	86	0	0	1.102	0	20	0	0	0.5	4.5	3.5	
	Dark Red Chieftain	523	562	93	7	89	4	0	1.070	0	10	0	0	0.0	3.0	3.0	
	Dakota Ruby	345	485	71	28	71	0	1	1.082	10	10	0	0	0.5	3.5	1.5	
	AF4831-2R	228	449	51	48	51	0	1	1.073	0	10	0	0	1.5	4.0	2.5	
	Modoc	131	341	38	59	38	0	3	1.064	0	0	0	0	0.0	3.5	2.0	
	Lollipop	31	238	13	87	13	0	0	1.076	0	0	0	0	0.0	3.0	3.0	
<b>MEAN</b>	<b>318</b>	<b>472</b>	<b>59</b>	<b>41</b>	<b>58</b>	<b>1</b>	<b>1</b>	<b>1.078</b>	<b>2</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>0.4</b>	<b>3.6</b>	<b>2.6</b>		
NOVELTY	AF5245-1P	155	292	53	47	53	0	0	1.079	0	40	0	0	0.5	4.0	1.5	
RUSSET TYPE	Reveille Russet	622	707	88	10	68	20	2	1.079	0	20	0	0	0.0	3.5	3.5	
	Caribou Russet	603	662	91	8	72	19	1	1.090	10	30	0	10	0.0	4.0	3.5	
	<b>Russet Norkotah</b>	<b>471</b>	<b>577</b>	<b>82</b>	<b>15</b>	<b>78</b>	<b>4</b>	<b>3</b>	<b>-</b>	<b>30</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>1.0</b>	<b>4.5</b>	<b>2.0</b>	
	Payette Russet	438	490	89	9	71	18	2	1.094	20	0	0	0	0.0	2.5	3.5	
	<b>GoldRush</b>	<b>396</b>	<b>492</b>	<b>81</b>	<b>12</b>	<b>65</b>	<b>16</b>	<b>7</b>	<b>1.075</b>	<b>0</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>4.0</b>	<b>1.0</b>	
<b>MEAN</b>	<b>506</b>	<b>586</b>	<b>86</b>	<b>11</b>	<b>71</b>	<b>15</b>	<b>3</b>	<b>1.084</b>	<b>12</b>	<b>18</b>	<b>0</b>	<b>2</b>	<b>0.2</b>	<b>3.7</b>	<b>2.7</b>		
<b>TRIAL MEAN</b>	<b>394</b>	<b>529</b>	<b>71</b>	<b>27</b>	<b>68</b>	<b>3</b>	<b>2</b>	<b>1.077</b>	<b>3</b>	<b>17</b>	<b>0</b>	<b>0</b>	<b>0.4</b>	<b>3.8</b>	<b>2.5</b>		

<sup>1</sup>SIZE

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

**Russets**  
Bs: < 4 oz  
As: 4 - 10 oz  
OV: > 10 oz  
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: 8/22/17  
Rating 1-5  
1: Slow emergence  
5: Early emergence (vigorous vine, some flowering)

**VINE MATURITY RATING**

Date: 6/23/17

Rating 1-5

1: Early (vines completely dead)

5: Late (vigorous vines, some flowering)

**FIELD DATA**

Planting Date	5/15/17
Vine Kill Date	8/28/17
Harvest Date	9/19/17
Days (planting to vine kill)	105
Days (planting to harvest)	127
GDD <sub>40</sub> MAWN Station	Elk Rapids
GDD <sub>40</sub> (planting to vine kill)	2652
Seed Spacing	10"

# 2017 Tablestock Potato Variety Trial

## Kitchen Farms, Antrim County, MI

Planting: 5/31 Vine Kill: 8/8 Harvest: 10/20  
GDD<sub>40</sub>: 2078

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					
YELLOW SKIN TYPE	Jelly	694	770	90	4	88	2	6	1.071	0	60	0	0	0.0	4.5	5.0	
	Malou	644	736	88	8	85	3	4	1.067	0	50	0	0	1.0	4.0	3.0	
	<b>Yukon Gold</b>	<b>625</b>	<b>675</b>	<b>93</b>	<b>3</b>	<b>79</b>	<b>14</b>	<b>4</b>	<b>1.083</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.5</b>	<b>4.5</b>	<b>3.0</b>	pink eyes
	Viviana	606	696	88	6	82	6	6	1.065	0	0	0	0	1.5	4.0	3.0	
	Alegria	598	657	91	6	66	25	3	1.072	10	0	0	0	0.0	4.5	4.0	
	Queen Anne	552	642	86	9	81	5	5	1.061	0	0	0	0	1.0	3.5	4.0	
	NY161	546	613	89	9	89	0	2	1.075	0	0	0	0	0.5	4.0	4.5	eyes splashed purple
	Musica	524	701	75	19	75	0	6	1.063	0	0	0	0	0.0	4.0	4.0	
	Soraya	517	638	81	3	75	6	16	1.058	0	0	0	0	0.5	3.0	5.0	
	Elfe	495	570	87	4	83	4	9	1.069	0	60	0	0	1.0	3.0	3.5	
	Allora	491	580	85	11	81	4	5	1.068	0	0	0	0	0.5	4.0	2.5	
	Julinka	479	592	81	5	77	4	14	1.063	0	40	0	0	0.5	3.5	3.5	
	Wendy	467	579	81	16	81	0	3	1.062	0	20	0	0	0.0	3.5	4.5	
	Wega	434	534	81	9	81	0	9	1.062	0	0	0	0	0.0	3.5	4.0	
	Oneida Gold	414	454	91	9	91	0	0	1.072	0	40	0	0	0.5	4.0	3.5	
W9576-11Y	412	490	84	14	76	8	2	1.058	0	0	0	0	0.0	4.0	3.0		
Montreal	373	471	79	11	64	15	10	1.068	0	30	0	0	1.5	4.0	2.5		
NY149	373	459	81	12	81	0	7	1.083	0	0	10	0	0.5	3.5	4.5		
W10564-19Y	151	636	24	76	22	2	0	1.069	0	40	0	0	0.5	4.0	3.5		
	<b>MEAN</b>	<b>494</b>	<b>605</b>	<b>82</b>	<b>12</b>	<b>77</b>	<b>5</b>	<b>6</b>	<b>1.068</b>	<b>1</b>	<b>18</b>	<b>1</b>	<b>0</b>	<b>0.5</b>	<b>3.8</b>	<b>3.7</b>	
RED SKIN TYPE	W8405-1R	625	718	87	10	79	8	3	1.064	0	0	0	0	1.0	4.0	4.0	
	Modoc	569	639	89	5	87	2	6	1.061	0	0	0	0	0.0	4.0	3.0	
	Cerata	562	650	87	11	87	0	3	1.072	0	40	0	0	0.5	4.0	4.0	
	ND7132-1R	493	568	87	4	78	9	9	1.062	10	0	0	0	0.5	4.0	4.5	
	<b>Dark Red Norland</b>	<b>478</b>	<b>554</b>	<b>86</b>	<b>6</b>	<b>74</b>	<b>12</b>	<b>8</b>	<b>1.060</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.5</b>	<b>4.0</b>	<b>2.5</b>	
	MSW343-2R	472	540	87	11	82	6	1	1.055	0	0	0	0	0.0	3.5	3.5	sheep nose, deep eyes
	W8890-1R	448	496	91	8	87	4	1	1.073	0	80	0	0	0.0	3.0	3.5	
	Dakota Ruby	437	492	89	8	89	0	3	1.069	0	30	0	0	0.5	3.5	3.0	powdery scab
	Dark Red Cheiftain	399	418	96	4	89	7	0	1.067	30	10	0	0	0.5	3.5	4.0	
	AF4831-2R	390	512	76	16	74	2	8	1.065	0	0	0	0	0.5	4.0	3.0	
ND6002-1R	265	277	96	3	68	28	1	1.066	0	0	0	0	2.0	1.5	3.5		
Lollipop	176	325	54	46	54	0	0	1.069	0	0	0	0	0.5	3.0	2.5	small round tuber type	
	<b>MEAN</b>	<b>443</b>	<b>516</b>	<b>85</b>	<b>11</b>	<b>79</b>	<b>6</b>	<b>4</b>	<b>1.065</b>	<b>3</b>	<b>13</b>	<b>0</b>	<b>0</b>	<b>0.5</b>	<b>3.5</b>	<b>3.4</b>	
ROUND WHITE TYPE	MSY111-1	661	692	95	3	79	16	1	1.073	0	0	0	0	0.5	3.5	5.0	netted skin
	<b>Reba</b>	<b>506</b>	<b>527</b>	<b>96</b>	<b>4</b>	<b>87</b>	<b>9</b>	<b>0</b>	<b>1.070</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.5</b>	<b>3.5</b>	<b>3.5</b>	
	MSU383-A	421	442	95	4	71	24	1	1.061	0	0	0	0	0.5	2.5	2.5	slight alligator hide
	AF4138-8	372	517	72	28	72	0	0	1.060	0	0	0	0	1.5	4.0	3.0	
	MSV179-1	365	383	95	2	83	12	3	1.066	0	0	0	0	1.0	3.0	4.0	
	NY157	327	414	79	18	71	8	3	1.075	0	0	0	0	1.5	3.5	4.5	
	MSU161-1	301	337	89	7	89	0	4	1.069	0	20	0	0	1.0	3.5	4.5	
MSX497-6	253	284	89	5	87	2	6	1.065	0	0	0	0	0.5	3.5	3.5	very waxy skin	
	<b>MEAN</b>	<b>401</b>	<b>449</b>	<b>89</b>	<b>9</b>	<b>80</b>	<b>9</b>	<b>2</b>	<b>1.067</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0.9</b>	<b>3.4</b>	<b>3.8</b>	

NOVELTY TYPE	CO8155-2RUS/Y	426	520	82	11	82	0	7	1.078	0	10	0	0	0.0	4.0	3.5
	AF5414-1RR	421	520	81	11	79	2	8	1.081	0	0	0	0	0.5	3.5	3.0
	AF5245-1P	353	472	75	24	64	11	1	1.074	10	60	0	0	1.0	4.5	4.5
	MSX324-1P	338	421	80	16	80	0	4	1.080	0	0	0	0	0.5	4.0	3.5
	<b>MEAN</b>	<b>385</b>	<b>483</b>	<b>80</b>	<b>15</b>	<b>76</b>	<b>3</b>	<b>5</b>	<b>1.078</b>	<b>3</b>	<b>18</b>	<b>0</b>	<b>0</b>	<b>0.5</b>	<b>4.0</b>	<b>3.6</b>
RUSSET TYPE	ND50032-4RUS	581	660	88	4	73	15	8	1.084	0	20	0	0	0.0	3.5	4.0
	A07061-6RUS	543	637	85	11	84	1	4	1.074	0	0	0	0	1.5	4.5	4.0
	AF5179-4RUS	532	648	82	5	64	18	13	1.087	0	10	0	0	2.0	4.0	4.0
	W9742-3RUS	502	559	90	3	72	18	7	1.092	0	0	0	0	0.0	4.0	3.5
	<b>Russet Norkotah</b>	<b>499</b>	<b>599</b>	<b>83</b>	<b>7</b>	<b>67</b>	<b>16</b>	<b>10</b>	<b>1.073</b>	<b>70</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>4.0</b>	<b>3.5</b>
	A06021-1TRUS	464	541	86	10	76	10	4	1.080	0	30	0	0	0.0	3.5	3.0
	WND8625-2RUS	436	523	82	17	74	8	1	1.073	80	10	0	10	0.0	2.5	4.0
	COTX09022-3RURE/Y	431	539	80	14	72	8	6	1.089	0	10	0	0	0.5	3.5	3.5
	GoldRush	424	531	80	10	79	1	10	1.067	10	0	0	0	0.0	3.5	3.0
	WAF10073-3Rus	412	496	83	15	83	0	2	1.064	0	0	0	0	0.0	3.5	3.5
	CW08221-5RUS	411	566	73	18	73	0	10	1.056	10	40	0	0	0.0	3.5	3.0
	AF5312-1RUS	407	494	82	15	75	7	3	1.064	0	0	0	0	0.0	4.0	3.5
	Reveille Russet	383	471	81	11	72	9	8	1.061	0	0	0	0	0.0	3.0	3.5
	TX08352-5RUS	367	420	87	11	79	8	2	1.066	50	0	0	0	0.0	2.5	3.0
	<b>Silverton Russet</b>	<b>365</b>	<b>441</b>	<b>83</b>	<b>12</b>	<b>83</b>	<b>0</b>	<b>5</b>	<b>1.065</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>4.0</b>	<b>4.0</b>
CO05175-1RUS	288	383	75	15	75	0	10	1.080	30	30	0	0	0.0	3.0	4.5	
A06030-23RUS	257	349	74	17	74	0	9	1.084	0	0	0	0	0.0	2.5	3.0	
Payette Russet	256	364	71	7	68	3	22	1.082	0	0	0	0	0.0	1.5	4.0	
	<b>MEAN</b>	<b>420</b>	<b>512</b>	<b>81</b>	<b>11</b>	<b>75</b>	<b>7</b>	<b>7</b>	<b>1.075</b>	<b>14</b>	<b>8</b>	<b>0</b>	<b>1</b>	<b>0.2</b>	<b>3.4</b>	<b>3.6</b>
	<b>TRIAL MEAN</b>	<b>443</b>	<b>532</b>	<b>83</b>	<b>11</b>	<b>77</b>	<b>6</b>	<b>5</b>	<b>1.070</b>	<b>5</b>	<b>12</b>	<b>0</b>	<b>0</b>	<b>0.5</b>	<b>3.6</b>	<b>3.6</b>

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

**Non-russet tablestock**

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

**Russets**

Bs: < 4 oz  
As: 4 - 10 oz  
OV: > 10 oz  
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: 7/6/17  
Rating 1-5  
1: Slow emergence  
5: Early emergence (vigorous vine, some flowering)

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

Date: 8/22/17  
Rating 1-5  
1: Early (vines completely dead)  
5: Late (vigorous vines, some flowering)

**FIELD DATA**

Planting Date 5/31/17  
Vine Kill Date 8/8/17  
Harvest Date 10/20/17  
Days (planting to vine kill) 69  
Days (planting to harvest) 142  
GDD<sub>40</sub> MAWN Station Allegan  
GDD<sub>40</sub> (planting to vine kill) 2078  
Seed Spacing 10"

# 2017 Russet Potato Variety Trial

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

Planting: 4/28 Vine Kill: 9/16 Harvest: 9/25  
GDD<sub>40</sub>: 3695

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				
<b>Russet Norkotah</b>	<b>678</b>	<b>825</b>	<b>82</b>	<b>5</b>	<b>45</b>	<b>37</b>	<b>13</b>	<b>1.079</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.5</b>	<b>2.0</b>	<b>3.5</b>	
W9433-1RUS	678	878	77	2	24	53	21	1.088	20	0	60	0	0.5	2.5	3.0	
<b>Silverton Russet</b>	<b>586</b>	<b>708</b>	<b>83</b>	<b>7</b>	<b>47</b>	<b>36</b>	<b>10</b>	<b>1.077</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.5</b>	<b>2.5</b>	<b>3.5</b>	
AF5179-4RUS	568	820	69	4	30	39	27	1.101	0	0	0	0	1.5	2.0	3.5	
A07061-6RUS	560	704	80	6	61	19	14	1.089	0	0	0	0	1.0	2.0	4.0	light russet skin
AF5312-1RUS	537	699	77	9	48	29	14	1.079	10	0	0	0	0.5	2.0	3.5	
ND050032-4RUS	533	681	78	3	28	50	19	1.082	100	0	0	0	1.5	2.0	3.0	growth crack in pickouts
W9742-3RUS	521	677	77	1	15	62	22	1.106	30	0	0	0	1.0	2.0	3.0	alligator hide
TX08352-5RUS	509	577	88	9	56	32	3	1.066	0	0	0	0	0.0	2.0	3.5	dark russet skin
CW08221-5RUS	499	694	72	11	41	31	17	1.067	50	0	0	0	0.0	2.0	2.5	very heavy russet skin
WND8625-2RUS	494	580	85	9	40	45	6	1.077	30	0	0	0	0.0	2.0	3.5	growth crack in pickouts
WAF10073-3RUS	477	652	73	3	37	36	24	1.075	0	0	0	0	1.0	2.0	3.5	
COTX09022-3RURE/Y	472	617	77	11	68	9	12	1.088	10	0	0	0	1.5	2.5	3.5	
A06021-1TRUS	461	556	83	8	50	33	9	1.086	20	0	10	0	0.5	2.0	2.5	
Reveille Russet	428	529	81	7	41	40	12	1.077	0	20	0	0	0.0	1.5	3.0	growth crack in pickouts
Payette Russet	354	429	82	5	51	31	13	1.097	0	20	0	0	0.0	1.0	4.0	growth crack in pickouts
A06030-23RUS	201	380	53	23	40	13	24	1.076	40	30	0	0	0.5	2.0	3.0	severe growth crack in pickouts
<b>MEAN</b>	<b>503</b>	<b>647</b>	<b>77</b>	<b>7</b>	<b>42</b>	<b>35</b>	<b>15</b>	<b>1.083</b>	<b>20</b>	<b>4</b>	<b>4</b>	<b>0</b>	<b>0.6</b>	<b>2.0</b>	<b>3.3</b>	

### <sup>1</sup>SIZE

**Non-russet tablestock**      **Russets**  
Bs: < 1 7/8"      Bs: < 4 oz  
As: 1 7/8" - 3 1/4"      As: 4 - 10 oz  
OV: > 3 1/4"      OV: > 10 oz  
PO: Pickouts      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: 6/6/17  
Rating 1-5  
1: Slow emergence  
5: Early emergence (vigorous vine, some flowering)

### <sup>6</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      4/28/17  
Vine Kill Date      9/16/17  
Harvest Date      9/25/17  
Days (planting to vine kill)      141  
Days (planting to harvest)      150  
GDD<sub>40</sub> MAWN Station      Constantine  
GDD<sub>40</sub> (planting to vine kill)      3695  
Seed Spacing      10"

# 2017 Tablestock Potato Variety Trial

## TJJ VanDamme Farms, Delta County, MI

Planting: 6/2 Vine Kill: 9/9 Harvest: 10/15  
GDD<sub>40</sub>: 2359

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					
YELLOW	Wega	471	618	76	14	67	9	10	1.072	0	20	0	0	not taken	3.5	3.0	
	Soraya	458	525	87	1	78	9	12	1.063	0	0	0	0		3.5	4.5	good tuber type
	NY 149	417	451	92	4	91	1	4	1.084	0	0	0	0		3.5	2.5	
	Musica	408	520	79	5	79	0	16	1.073	0	0	0	0		3.5	3.0	poor tuber type
	Jelly	353	379	93	7	84	9	0	1.088	20	20	0	0		3.0	3.0	poor tuber type
	Elfe	280	342	82	5	82	0	13	1.078	10	0	0	0		3.5	2.0	
	Montreal	277	339	82	5	70	12	13	1.075	0	0	0	0		4.0	2.0	
	W9576-11Y	273	340	80	16	80	0	4	1.064	10	20	0	0		4.0	2.0	some soft rot
	Alegria	250	320	78	11	61	17	11	1.080	10	20	20	0		4.0	2.5	greening, poor tuber type
	Queen Anne	249	321	77	15	59	18	8	1.069	0	30	0	0		2.0	2.5	
	<b>Yukon Gold</b>	<b>196</b>	<b>275</b>	<b>71</b>	<b>8</b>	<b>64</b>	<b>7</b>	<b>21</b>	<b>1.087</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>0</b>		<b>3.0</b>	<b>2.5</b>	
	Allora	129	166	78	11	73	5	11	1.080	0	0	0	0		1.0	2.0	
	<b>MEAN</b>	<b>313</b>	<b>383</b>	<b>81</b>	<b>9</b>	<b>74</b>	<b>7</b>	<b>10</b>	<b>1.076</b>	<b>4</b>	<b>10</b>	<b>2</b>	<b>0</b>		<b>3.2</b>	<b>2.6</b>	
RED SKIN TYPE	AF4831-2R	452	494	91	7	90	1	2	1.078	0	10	0	0		3.5	2.5	
	W8405-1R	445	505	89	6	87	2	5	1.075	0	30	0	0		3.5	2.5	
	ND7132-1R	398	456	88	1	77	11	11	1.077	0	0	10	0		4.0	2.5	slight skinning
	<b>Dark Red Norland</b>	<b>348</b>	<b>364</b>	<b>96</b>	<b>4</b>	<b>94</b>	<b>2</b>	<b>0</b>	<b>1.075</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>		<b>4.0</b>	<b>3.0</b>	silver scurf observed
	Dakota Ruby	334	416	81	4	79	2	15	1.080	10	0	0	0		3.5	3.0	slight greening
	Cerata	319	351	91	3	91	0	6	1.075	0	0	0	0		4.0	4.0	
	W8890-1R	317	347	91	8	91	0	1	1.080	20	20	0	0		3.5	2.5	
	Dark Red Chieftain	307	328	94	3	78	16	3	1.076	0	0	0	0		2.5	2.5	
	ND6002-1R	255	305	84	4	84	0	12	1.078	10	10	0	0		1.0	2.5	slight skinning
	Red Endeavor	251	273	92	4	74	18	4	1.070	0	0	0	0		2.5	2.5	
	Lollipop	68	95	72	22	72	0	6	1.081	0	0	0	0		2.0	2.0	
	<b>MEAN</b>	<b>318</b>	<b>358</b>	<b>88</b>	<b>6</b>	<b>83</b>	<b>5</b>	<b>6</b>	<b>1.077</b>	<b>4</b>	<b>6</b>	<b>1</b>	<b>0</b>		<b>3.1</b>	<b>2.7</b>	
ROUND WHITE TYPE	<b>Reba</b>	<b>399</b>	<b>431</b>	<b>93</b>	<b>1</b>	<b>76</b>	<b>17</b>	<b>6</b>	<b>1.084</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>		<b>3.5</b>	<b>3.0</b>	
	MSY111-1	241	286	84	5	79	5	11	1.076	0	0	0	0		3.0	4.0	
	NY157	223	271	82	17	82	0	1	1.099	10	10	0	0		3.0	2.5	
	<b>MEAN</b>	<b>288</b>	<b>329</b>	<b>86</b>	<b>8</b>	<b>79</b>	<b>7</b>	<b>6</b>	<b>1.086</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>0</b>		<b>3.2</b>	<b>3.2</b>	
NOVELTY	MSX324-1P	288	335	86	7	83	3	7	1.088	0	0	0	0		4.0	2.0	
RUSSET TYPE	<b>Silverton Russet</b>	<b>409</b>	<b>481</b>	<b>85</b>	<b>9</b>	<b>61</b>	<b>24</b>	<b>6</b>	<b>1.078</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>		<b>4.0</b>	<b>3.5</b>	
	CW08221-5RUS	359	472	76	12	57	19	12	1.072	40	0	0	0		3.5	3.0	
	<b>Russet Norkotah</b>	<b>354</b>	<b>457</b>	<b>78</b>	<b>6</b>	<b>56</b>	<b>22</b>	<b>16</b>	<b>1.079</b>	<b>20</b>	<b>20</b>	<b>10</b>	<b>0</b>		<b>3.5</b>	<b>3.0</b>	
	ND50032-4RUS	348	418	83	6	31	52	11	1.089	0	0	0	0		3.0	4.0	
	Reveille Russet	331	420	79	12	63	16	9	1.084	10	0	0	0		2.0	4.0	
	WND8625-2RUS	284	337	85	4	44	41	11	1.084	20	10	0	0		3.0	3.5	
	W9742-3RUS	274	331	83	5	64	19	12	1.091	0	0	0	0		3.0	3.0	
	Reveille Russet (Lippens planting)	231	342	68	5	35	33	27	-	0	0	0	0		4.0		high number of pickouts
	TX08352-5RUS	222	327	67	24	62	5	9	1.074	10	0	0	0		2.0	2.5	some greening
	Payette Russet	153	252	61	9	55	6	30	1.082	0	0	0	0		1.5	4.5	poor skin set
	<b>MEAN</b>	<b>296</b>	<b>384</b>	<b>77</b>	<b>9</b>	<b>53</b>	<b>24</b>	<b>14</b>	<b>1.081</b>	<b>10</b>	<b>3</b>	<b>1</b>	<b>0</b>		<b>3.0</b>	<b>3.4</b>	
<b>TRIAL MEAN</b>		<b>307</b>	<b>370</b>	<b>83</b>	<b>8</b>	<b>72</b>	<b>11</b>	<b>10</b>	<b>1.079</b>	<b>5</b>	<b>6</b>	<b>1</b>	<b>0</b>		<b>3.1</b>	<b>2.9</b>	

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

**Non-russet tablestock**

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

**Russets**

Bs: < 4 oz  
As: 4 - 10 oz  
OV: > 10 oz  
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: 7/3/17  
Rating 1-5  
1: Slow emergence  
5: Early emergence (vigorous vine, some flowering)

**<sup>6</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	6/2/17
Vine Kill Date	9/9/17
Harvest Date	10/15/17
Days (planting to vine kill)	99
Days (planting to harvest)	135
GDD <sub>40</sub> MAWN Station	Escanaba
GDD <sub>40</sub> (planting to vine kill)	2359
Seed Spacing	10"

# 2017 NFPT Russet Potato Variety Trial

## Walther Farms, St. Joseph County, MI

Planting: 5/10 Vine Kill: 8/31 Harvest: 10/5  
GDD<sub>40</sub>: 3217

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>	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR	HH	VD	IBS	BC				
WAF10612-1	587	697	84	9	60	24	7	1.086	0	10	0	0	0.0	2.5	4.0	
A071012-4BF	587	688	86	5	52	34	9	1.098	0	0	0	0	0.5	2.5	4.0	
OR12133-10	562	786	71	7	52	19	22	1.093	0	30	0	0	0.5	3.0	3.0	some points
COAF11112-10	556	640	87	3	39	48	10	1.060	0	0	0	0	0.0	2.0	4.0	
AOR11141-2	541	651	83	12	55	28	5	1.081	0	0	0	10	1.0	3.0	2.5	
TXA549-1RUS	531	722	73	15	56	17	12	1.076	20	0	30	0	2.0	3.0	3.5	
CO09036-2RUS	526	659	80	11	64	16	9	1.083	10	0	10	0	0.0	2.5	4.0	
W9850-5RUS	521	577	91	5	73	18	4	1.088	20	0	0	0	0.0	2.0	4.0	
AOR07781-5	510	666	76	6	33	43	18	1.092	0	0	0	0	0.0	2.5	3.0	nice russet skin type and color
AF5644-8	506	658	77	14	56	21	9	1.092	0	0	0	0	0.5	2.0	4.5	
AAF07521-1	505	614	82	4	34	48	14	1.083	0	0	0	0	0.0	2.0	3.5	many growth cracks
AOR08540-1	501	635	79	11	60	19	10	1.088	40	0	0	0	0.5	2.0	3.5	
CW08071-2	491	614	81	16	78	3	3	1.080	0	0	0	0	1.0	2.0	4.0	slight points
AOR06576-1	487	678	72	10	55	17	18	1.079	0	0	0	0	0.0	2.0	4.0	
AOR11018-2	472	606	78	12	47	31	10	1.071	0	0	0	0	0.0	2.5	3.0	
AW07773-1RUS	461	558	82	10	48	34	8	1.088	60	0	0	0	0.0	2.0	4.0	
AF5492-6	449	536	83	12	59	24	5	1.085	10	50	0	0	0.0	2.5	3.0	
AOR10140-1	435	510	85	9	42	43	6	1.090	0	0	0	0	0.0	2.0	4.0	
AOR10204-3	434	595	73	8	45	28	19	1.075	20	0	0	0	0.0	2.0	4.0	
COAF11112-13	432	519	83	15	70	13	2	1.064	0	0	0	0	0.0	2.0	3.5	
COAF11018-10	424	504	84	9	59	25	7	1.084	10	0	20	0	0.5	2.0	3.5	
A08422-2VRSTO	418	522	81	6	43	38	13	1.073	0	10	30	20	0.0	2.5	3.5	
AF5071-2	413	614	67	11	41	26	22	1.093	0	10	0	0	2.5	2.5	3.0	
<b>Ranger Russet</b>	<b>410</b>	<b>562</b>	<b>73</b>	<b>20</b>	<b>66</b>	<b>7</b>	<b>7</b>	<b>1.094</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>1.5</b>	<b>2.5</b>	<b>4.5</b>	
AF5406-7	409	568	72	3	29	43	25	1.085	0	0	0	0	0.5	2.0	4.5	
AF5661-5	404	591	68	3	29	39	29	1.079	10	60	0	0	0.0	2.0	4.5	
AF5659-1	401	539	74	11	52	22	15	1.071	0	0	0	0	0.5	2.0	4.0	
<b>Russet Burbank</b>	<b>396</b>	<b>578</b>	<b>68</b>	<b>22</b>	<b>60</b>	<b>8</b>	<b>10</b>	<b>1.074</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>2.5</b>	<b>4.5</b>	
ND09193BR-2RUS	389	529	74	17	55	19	9	1.087	30	0	0	0	1.0	1.5	3.5	
AAF10245-1	381	474	81	16	75	6	3	1.087	0	0	0	0	0.5	3.0	2.5	possible PTRV
AF5525-2	370	504	73	4	32	41	23	1.073	10	0	10	0	1.0	2.5	3.5	
A10063-1	343	396	87	8	65	22	5	1.088	20	20	10	0	1.0	3.0	2.5	
AF5406-10	312	440	71	13	39	32	16	1.078	0	0	10	0	0.5	3.5	2.5	
ND060735-4RUS	310	436	71	25	56	15	4	1.083	40	0	0	0	0.0	2.0	3.5	
ND060761B-3RUS	303	327	93	5	61	32	2	1.079	50	0	0	0	0.5	2.0	2.5	
A07705-4	298	341	88	11	83	5	1	1.079	0	0	0	0	0.5	2.0	3.0	
ND12157-3RUS	297	343	86	11	50	36	3	1.092	40	0	0	0	0.5	2.0	3.0	
AF5628-2	295	546	54	6	17	37	40	1.074	0	0	10	0	0.5	3.0	3.0	



AAF10237-4	290	509	57	4	41	16	39	1.074	30	0	0	0	0.5	2.5	3.5	
ND070927-2RUS	285	449	64	21	54	10	15	1.088	0	10	20	10	0.5	2.5	3.5	light russeted skin type
A10594-8VR	278	381	73	10	47	26	17	1.101	40	0	0	0	2.0	2.0	2.5	
COAF11018-7	276	486	57	19	30	27	24	1.078	0	0	0	0	0.0	2.0	4.0	
POR12NCK50-1	274	390	71	20	47	24	9	1.088	10	0	0	0	0.5	2.0	3.0	
A11252-10	248	400	62	26	49	13	12	1.077	0	0	0	0	0.0	2.5	3.0	
A07769-4	239	304	79	2	55	24	19	1.078	0	0	0	0	0.5	2.5	3.0	light russet skin color
AAF08434-3	228	470	49	22	47	2	29	1.074	0	0	0	0	0.0	2.0	3.0	
A07098-4	217	319	68	25	46	22	7	1.078	0	0	0	0	0.0	2.0	3.0	
AF5407-13	202	643	31	7	19	12	62	1.075	0	20	0	0	0.0	2.0	4.0	many pointed and pear shaped tubers
ND092024CR-1RUS	166	235	71	25	68	3	4	1.077	0	10	0	0	0.5	1.5	3.0	
ND12205B-4RUS	163	270	60	11	28	32	29	1.068	0	0	10	0	1.0	2.5	3.0	
AAF10615-1	159	400	40	14	25	15	46	1.082	30	0	0	0	0.5	2.0	2.5	light russet skin
ND113224C-3RUS	154	259	60	26	41	19	14	1.091	0	0	0	0	2.0	3.0	3.5	
ND091933ABCR-7RUS	151	235	64	36	64	0	0	1.079	0	0	0	0	2.0	2.5	3.0	
A10688-1adgsto	143	212	68	25	56	12	7	1.072	0	0	0	0	2.5	2.0	3.0	
CO08155-2RU/Y	104	158	66	17	62	4	17	1.071	0	0	0	0	0.0	2.0	2.5	
<b>MEAN</b>	<b>368</b>	<b>501</b>	<b>73</b>	<b>13</b>	<b>50</b>	<b>23</b>	<b>14</b>	<b>1.081</b>	<b>9</b>	<b>4</b>	<b>3</b>	<b>1</b>	<b>0.5</b>	<b>2.3</b>	<b>3.4</b>	

#### <sup>1</sup>SIZE

##### **Non-russet tablestock**

Bs: < 1 7/8"

As: 1 7/8" - 3 1/4"

OV: > 3 1/4"

PO: Pickouts

##### **Russets**

Bs: < 4 oz

As: 4 - 10 oz

OV: > 10 oz

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: 6/6/17

Rating 1-5

1: Slow emergence

5: Early emergence (vigorous vine, some flowering)

#### <sup>6</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

5/10/17

Vine Kill Date

8/31/17

Harvest Date

10/5/17

Days (planting to vine kill)

113

Days (planting to harvest)

148

GDD<sub>40</sub> MAWN Station

Constantine

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

3217

Seed Spacing

10"

# 2017 NFPT Russet Potato Variety Trial, Added Lines

## Walther Farms, St. Joseph County, MI

Planting: 5/10 Vine Kill: 8/31 Harvest: 10/5  
GDD<sub>40</sub>: 3217

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>	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR	HH	VD	IBS	BC				
A06030-23Rus	644	762	85	1	43	42	14	1.101	0	0	0	0	1.0	2.0	3.5	pointed shape
A07061-6Rus	591	763	78	13	65	13	9	1.086	0	0	0	0	1.5	2.5	4.0	
<b>Russet Norkotah</b>	<b>583</b>	<b>612</b>	<b>95</b>	<b>3</b>	<b>41</b>	<b>54</b>	<b>2</b>	<b>1.069</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1.0</b>	<b>2.5</b>	<b>4.5</b>	
<b>Silverton Russet</b>	<b>580</b>	<b>652</b>	<b>89</b>	<b>6</b>	<b>51</b>	<b>38</b>	<b>5</b>	<b>1.072</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.5</b>	<b>3.0</b>	<b>4.5</b>	
A08433-4VRRUS	576	697	82	8	41	41	10	1.080	0	40	0	0	0.0	2.5	4.0	
ND050032-4RUS	519	698	74	3	24	50	23	1.092	0	20	0	0	0.0	2.0	3.5	
AF5179-4RUS	485	563	86	3	50	36	11	1.096	0	0	20	0	3.0	2.0	4.0	
AF5091-8RUS	451	650	69	5	39	30	26	1.072	0	10	0	0	0.0	2.0	3.0	
Payette Russet	449	582	78	10	55	23	12	1.094	0	10	0	0	0.0	1.5	3.5	
A06021-1TRus	438	503	87	9	54	33	4	1.080	10	0	0	0	0.5	2.0	4.5	
W10594-16RUS	412	580	71	19	63	8	10	1.082	0	0	0	0	1.0	2.5	3.5	light buff skin type
TX08352-5RUS	325	423	77	17	63	14	6	1.063	0	0	0	0	0.0	2.0	3.5	two tubers with glassy ends
W9742-3RUS	295	364	81	14	78	3	5	1.091	0	0	10	0	1.0	2.5	3.0	
<b>MEAN</b>	<b>488</b>	<b>604</b>	<b>81</b>	<b>9</b>	<b>51</b>	<b>30</b>	<b>11</b>	<b>1.083</b>	<b>1</b>	<b>6</b>	<b>2</b>	<b>0</b>	<b>0.7</b>	<b>2.2</b>	<b>3.8</b>	

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

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

**Russets**  
Bs: < 4 oz  
As: 4 - 10 oz  
OV: > 10 oz  
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: 6/6/17  
Rating 1-5  
1: Slow emergence  
5: Early emergence (vigorous vine, some flowering)

**<sup>6</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 5/10/17  
Vine Kill Date 8/31/17  
Harvest Date 10/5/17  
Days (planting to vine kill) 113  
Days (planting to harvest) 148  
GDD<sub>40</sub> MAWN Station Constantine  
GDD<sub>40</sub> (planting to vine kill) 3217  
Seed Spacing 10"

# 2017 Russet Norkotah Mgmt. Variety Trial Walther Farms, St. Joseph County, MI

Planting: 5/10 Vine Kill: 8/31 Harvest: 9/21  
GDD<sub>40</sub>: 3175

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				
A08433-4VRRUS	619	704	87	7	64	23	6	1.085	7	0	0	0	0.7	2.3	4.7	no comments
TX08352-5RUS	612	741	82	6	62	20	12	1.064	0	0	0	0	0.2	2.0	3.7	
A07061-6RUS	568	693	82	13	69	13	5	1.084	0	3	0	0	0.5	2.8	4.5	
<b>Russett Norkotah</b>	<b>561</b>	<b>611</b>	<b>92</b>	<b>3</b>	<b>51</b>	<b>41</b>	<b>5</b>	<b>1.072</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.2</b>	<b>2.2</b>	<b>3.2</b>	
AF5468-5RUS	533	603	88	7	60	28	5	1.074	3	0	0	0	0.5	2.3	3.5	
A06021-1TRUS	525	612	85	7	54	31	8	1.084	3	0	0	0	0.5	2.0	3.5	
<b>Silverton Russet</b>	<b>508</b>	<b>597</b>	<b>85</b>	<b>6</b>	<b>58</b>	<b>27</b>	<b>9</b>	<b>1.072</b>	<b>13</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.2</b>	<b>2.7</b>	<b>4.3</b>	
AF5312-1RUS	499	607	83	7	67	16	10	1.072	0	0	0	0	0.3	2.0	3.3	
CW08221-5RUS	493	606	81	10	55	26	9	1.057	13	0	3	3	0.3	2.0	3.8	
ND050032-4RUS	480	626	77	2	40	37	21	1.085	0	7	0	0	0.7	2.0	4.0	
WND8625-2RUS	465	546	85	8	60	25	7	1.078	10	0	7	3	0.7	2.0	3.7	
Reveille Russet	459	592	77	7	49	28	16	1.071	0	0	3	0	0.5	2.0	4.0	
AF5091-8RUS	455	584	78	7	44	34	15	1.069	0	0	13	0	0.8	2.5	3.7	
W10594-16RUS	451	577	78	14	71	7	8	1.079	0	0	0	0	0.5	2.2	3.7	
W9742-3RUS	451	530	85	6	59	26	9	1.104	0	0	0	0	1.3	2.0	4.7	
W10612-8RUS	449	543	83	8	72	11	9	1.079	3	0	0	0	0.7	2.3	3.7	
Payette Russet	436	519	84	8	66	18	8	1.092	0	0	0	0	0.5	1.5	5.0	
WAF10073-3RUS	425	572	75	5	55	20	19	1.070	0	0	0	3	0.3	2.0	3.5	
AF5179-4RUS	411	513	80	4	42	38	16	1.085	0	0	0	0	0.8	2.0	4.8	
A06030-23RUS	370	474	78	10	51	27	12	1.080	23	0	3	3	0.2	2.0	3.2	
<b>MEAN</b>	<b>489</b>	<b>593</b>	<b>82</b>	<b>7</b>	<b>57</b>	<b>25</b>	<b>10</b>	<b>1.078</b>	<b>4</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0.5</b>	<b>2.1</b>	<b>3.9</b>	

<b><u><sup>1</sup>SIZE</u></b>	<b><u><sup>2</sup>SPECIFIC GRAVITY</u></b>	<b><u><sup>3</sup>RAW TUBER QUALITY</u></b>	<b><u><sup>4</sup>COMMON SCAB RATING</u></b>	<b><u><sup>5</sup>VINE VIGOR RATING</u></b>
<b>Non-russet tablestock</b>	<b>Russets</b>	<b>of tubers</b>	0.0: Complete absence of surface or pitted lesions	Date: 6/6/17
Bs: < 1 7/8"	Bs: < 4 oz	HH: Hollow Heart	1.0: Presence of surface lesions	Rating 1-5
As: 1 7/8" - 3 1/4"	As: 4 - 10 oz	VD: Vascular Discoloration	2.0: Pitted lesions on tubers, though coverage is low	1: Slow emergence
OV: > 3 1/4"	OV: > 10 oz	IBS: Internal Brown Spot	3.0: Pitted lesions common on tubers	5: Early emergence (vigorous vine, some flowering)
PO: Pickouts	PO: Pickouts	BC: Brown Center	4.0: Pitted lesions severe on tubers	
			5.0: More than 50% of tuber surface area covered in pitted lesions	
<b><u><sup>6</sup>VINE MATURITY RATING</u></b>	<b><u>FIELD DATA</u></b>			
Date: 8/16/17	Planting Date	5/10/17		
Rating 1-5	Vine Kill Date	8/31/17		
1: Early (vines completely dead)	Harvest Date	9/21/17		
5: Late (vigorous vines, some flowering)	Days (planting to vine kill)	113		
	Days (planting to harvest)	134		
	GDD <sub>40</sub> MAWN Station	Constantine		
	GDD <sub>40</sub> (planting to vine kill)	3175		
	Seed Spacing	10"		

# 2017 Silverton Russet Mgmt. Variety Trial

## Walther Farms, St. Joseph County, MI

Planting: 4/24 Vine Kill: 9/11 Harvest: 9/21  
GDD<sub>40</sub>: 3564

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	HH	VD	IBS	BC				
Reveille Russet	510	591	86	12	61	25	2	1.065	0	0	3	0	0.3	3.2	2.2	no comments
A07061-6RUS	465	687	67	30	66	1	3	1.070	0	17	0	0	0.8	4.3	3.0	
W9742-3RUS	462	506	91	5	61	30	4	1.094	0	0	0	0	0.8	3.5	2.7	
CW08221-5RUS	460	554	83	13	78	5	4	1.060	13	0	7	0	0.7	4.0	1.8	
WND8625-2RUS	457	535	85	14	69	17	1	1.068	7	0	0	0	0.3	3.5	2.3	
AF5179-4RUS	446	546	83	9	64	19	9	1.084	0	3	0	0	1.3	3.0	2.7	
ND050032-4RUS	444	501	89	9	80	9	3	1.081	0	13	13	0	0.5	3.0	2.3	
<b>Silverton Russet</b>	<b>441</b>	<b>539</b>	<b>81</b>	<b>15</b>	<b>72</b>	<b>10</b>	<b>3</b>	<b>1.067</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.7</b>	<b>4.5</b>	<b>2.7</b>	
A06021-1TRUS	420	503	83	13	73	11	3	1.072	3	0	0	0	0.3	3.3	1.3	
Payette Russet	380	476	80	13	66	14	7	1.089	7	23	0	0	0.7	2.0	3.0	
<b>Russet Norkotah</b>	<b>344</b>	<b>497</b>	<b>69</b>	<b>28</b>	<b>62</b>	<b>7</b>	<b>2</b>	<b>1.068</b>	<b>23</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>0.3</b>	<b>3.2</b>	<b>1.3</b>	
TX08352-5RUS	343	488	70	29	67	3	1	1.061	0	0	0	0	0.7	3.0	1.5	
WAF10073-3RUS	313	487	64	33	63	1	3	1.069	0	0	0	0	0.3	3.0	1.7	
AF5312-1RUS	278	489	57	39	57	0	4	1.069	0	7	0	0	0.2	3.8	1.7	
A06030-23RUS	232	324	71	21	64	7	7	1.064	13	10	3	0	0.5	2.5	1.5	
<b>MEAN</b>	<b>400</b>	<b>515</b>	<b>77</b>	<b>19</b>	<b>67</b>	<b>11</b>	<b>4</b>	<b>1.072</b>	<b>5</b>	<b>5</b>	<b>2</b>	<b>0</b>	<b>0.6</b>	<b>3.3</b>	<b>2.1</b>	

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

**Non-russet tablestock**      **Russets**  
Bs: < 1 7/8"      Bs: < 4 oz  
As: 1 7/8" - 3 1/4"      As: 4 - 10 oz  
OV: > 3 1/4"      OV: > 10 oz  
PO: Pickouts      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 vine, some flowering)

**<sup>6</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      4/24/17  
Vine Kill Date      9/11/17  
Harvest Date      9/21/17  
Days (planting to vine kill)      140  
Days (planting to harvest)      151  
GDD<sub>40</sub> MAWN Station      Allegan  
GDD<sub>40</sub> (planting to vine kill)      3564  
Seed Spacing      10"

# 2017 Tablestock Trial

## Wilk Farms, Presque Isle County, MI

Planting: 5/26 Vine Kill: X/X Harvest: 10/6  
GDD<sub>40</sub>: XXXX

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					
YELLOW SKIN TYPE	Soraya	934	1024	91	4	83	8	5	1.058	0	30	0	0	0.5	4.0	3.0	no comments
	Malou	758	808	93	2	81	12	5	1.058	0	0	0	0	1.0	4.0	3.5	
	Musica	731	785	93	6	89	4	1	1.064	10	0	0	0	0.5	3.0	3.0	
	NY161	699	778	90	6	80	10	4	1.074	20	10	10	0	1.0	3.0	3.0	
	Wega	654	792	82	9	77	5	9	1.057	0	0	0	0	1.0	3.0	4.0	
	Allora	618	667	93	5	81	12	2	1.065	0	0	0	0	2.0	3.0	3.0	
	Alegria	595	628	95	3	69	26	2	1.082	10	0	0	50	0.0	3.0	4.0	
	Montreal	535	592	91	5	78	13	4	1.066	0	50	0	40	1.0	4.0	3.5	
	Elfe	519	562	93	3	85	8	4	1.061	0	0	0	10	0.0	4.0	2.5	
	<b>Yukon Gold</b>	<b>509</b>	<b>538</b>	<b>94</b>	<b>6</b>	<b>63</b>	<b>31</b>	<b>0</b>	<b>1.071</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>2.0</b>	<b>3.0</b>	<b>3.5</b>	
	Wendy	492	576	85	10	79	6	5	1.054	0	0	0	0	1.0	2.0	4.0	
	NY149	459	513	90	6	72	18	4	1.068	10	20	0	0	1.0	2.0	3.5	
	Oneida Gold	437	494	89	8	70	19	3	1.070	0	10	0	0	0.5	4.0	3.5	
	W9576-11Y	424	482	88	12	85	3	0	1.060	0	0	0	0	1.0	4.0	2.0	
Viviana	383	471	81	17	81	0	2	1.059	0	0	0	40	0.5	3.0	1.5		
Queen Anne	368	437	84	8	80	4	8	1.054	0	0	0	0	0.5	2.0	2.5		
Jelly	214	278	77	21	71	6	2	1.054	0	40	0	0	0.5	3.0	4.5		
	<b>MEAN</b>	<b>549</b>	<b>613</b>	<b>89</b>	<b>8</b>	<b>78</b>	<b>11</b>	<b>4</b>	<b>1.063</b>	<b>3</b>	<b>9</b>	<b>1</b>	<b>9</b>	<b>0.8</b>	<b>3.2</b>	<b>3.2</b>	
RED SKIN TPE	Cerata	959	999	96	3	86	10	1	1.071	0	0	0	0	0.5	5.0	4.5	
	W8405-1R	845	944	90	7	61	29	3	1.062	0	10	0	20	0.5	3.0	3.0	
	Red Endeavor	795	827	96	3	79	17	1	1.058	0	20	0	0	0.5	4.0	2.5	
	AF4831-2R	628	749	84	7	84	0	9	1.062	0	0	0	0	0.0	3.0	3.0	
	Dakota Ruby	613	686	89	8	81	8	3	1.059	0	20	0	0	0.0	3.0	2.0	
	ND7132-1R	599	708	85	3	54	31	12	1.061	0	40	0	0	0.5	4.0	3.0	
	Dark Red Cheifan	565	598	94	4	70	24	2	1.051	0	30	0	0	0.0	3.0	2.0	
	W8890-1R	534	600	89	7	74	15	4	1.060	0	30	0	0	1.0	3.0	2.5	
	Modoc	452	493	92	7	86	6	1	1.057	0	20	0	0	0.0	3.0	2.5	
	ND6002-1R	365	383	95	4	58	37	1	1.058	10	30	0	0	0.5	1.5	2.5	
	MSW343-2R	347	395	88	5	71	17	7	1.052	0	10	0	0	0.0	3.0	2.5	
<b>Dark Red Norland</b>	<b>275</b>	<b>330</b>	<b>83</b>	<b>13</b>	<b>78</b>	<b>5</b>	<b>4</b>	<b>1.054</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>4.0</b>	<b>1.5</b>		
Lollipop	124	222	56	39	56	0	5	1.060	0	0	0	0	0.0	2.0	2.0		
	<b>MEAN</b>	<b>546</b>	<b>610</b>	<b>87</b>	<b>8</b>	<b>72</b>	<b>15</b>	<b>4</b>	<b>1.059</b>	<b>1</b>	<b>16</b>	<b>0</b>	<b>2</b>	<b>0.3</b>	<b>3.2</b>	<b>2.6</b>	
ROUND WHITE TYPE	MSY111-1	662	729	91	3	55	36	6	1.068	0	30	0	0	0.5	5.0	5.0	
	<b>Reba</b>	<b>602</b>	<b>624</b>	<b>97</b>	<b>3</b>	<b>78</b>	<b>19</b>	<b>0</b>	<b>1.062</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>0.5</b>	<b>3.0</b>	<b>4.0</b>	
	MSV179-1	479	487	99	1	50	49	0	1.060	0	0	0	0	0.5	2.0	4.0	
	NY157	441	479	92	6	80	12	2	1.075	0	0	20	0	0.5	3.0	3.5	
	AF4138-8	420	498	84	12	80	4	4	1.060	0	0	0	20	1.0	3.0	3.0	
	MSX497-6	179	197	91	7	89	2	2	1.065	0	0	0	0	0.5	2.0	2.5	
	<b>MEAN</b>	<b>464</b>	<b>502</b>	<b>92</b>	<b>5</b>	<b>72</b>	<b>20</b>	<b>2</b>	<b>1.065</b>	<b>0</b>	<b>5</b>	<b>3</b>	<b>5</b>	<b>0.6</b>	<b>3.0</b>	<b>3.7</b>	

NOVELTY TYPE	AF5245-1P	549	595	92	6	61	31	2	1.068	10	0	0	0	0.5	3.0	2.5
	CO8155-2RU/Y	438	525	83	7	82	1	10	1.077	0	0	0	0	0.5	3.0	3.0
	MSX324-1P	329	386	85	13	78	7	2	1.070	0	0	0	10	0.0	3.0	2.5
	<b>MEAN</b>	<b>439</b>	<b>502</b>	<b>87</b>	<b>9</b>	<b>74</b>	<b>13</b>	<b>5</b>	<b>1.072</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0.3</b>	<b>3.0</b>	<b>2.7</b>
RUSSET TYPE	COTX09022-3RUSRE/Y	679	731	93	4	79	14	3	1.077	10	20	20	0	1.5	4.0	3.0
	<b>Silverton Russet</b>	<b>658</b>	<b>711</b>	<b>92</b>	<b>4</b>	<b>75</b>	<b>17</b>	<b>4</b>	<b>1.068</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>0.5</b>	<b>4.0</b>	<b>4.5</b>
	Reveille Russet	638	703	90	3	65	25	7	1.061	0	20	0	0	0.5	3.0	3.0
	Caribou Russet	627	672	93	3	77	16	4	1.068	0	20	0	0	0.5	4.0	4.0
	AF5312-1RUS	606	671	90	8	85	5	2	1.062	0	0	0	0	0.5	5.0	3.0
	AF5179-4RUS	546	612	89	5	80	9	6	1.059	0	0	0	0	0.5	2.0	3.5
	<b>Russet Norkotah</b>	<b>535</b>	<b>609</b>	<b>88</b>	<b>8</b>	<b>76</b>	<b>12</b>	<b>4</b>	<b>1.063</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>
	CW08221-5RUS	524	595	88	6	77	11	6	1.058	20	0	0	0	0.5	3.0	3.5
	W9742-3RUS	523	593	88	4	64	24	8	1.075	0	10	0	0	0.5	2.0	4.0
	Payette Russet	484	670	72	3	45	27	25	1.069	20	10	0	0	0.5	2.0	5.0
	WND8625-2RUS	469	496	94	4	85	9	2	1.065	0	0	0	0	0.5	3.0	3.5
	TX08352-5RUS	431	455	95	5	88	7	0	1.052	0	10	10	0	0.5	3.0	3.0
	AF5468-5RUS	403	486	83	8	72	11	9	1.065	10	20	0	0	0.0	3.0	3.5
ND050032-4RUS	375	439	85	8	73	12	7	1.064	0	0	0	0	0.0	3.0	3.5	
<b>Gold Rush</b>	<b>283</b>	<b>352</b>	<b>80</b>	<b>16</b>	<b>73</b>	<b>7</b>	<b>4</b>	<b>1.085</b>	<b>0</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>0.5</b>	<b>3.0</b>	<b>4.0</b>	
	<b>MEAN</b>	<b>519</b>	<b>586</b>	<b>88</b>	<b>6</b>	<b>74</b>	<b>14</b>	<b>6</b>	<b>1.066</b>	<b>4</b>	<b>9</b>	<b>3</b>	<b>0</b>	<b>0.5</b>	<b>3.2</b>	<b>3.6</b>
	<b>TRIAL MEAN</b>	<b>523</b>	<b>584</b>	<b>89</b>	<b>7</b>	<b>75</b>	<b>14</b>	<b>4</b>	<b>1.064</b>	<b>2</b>	<b>10</b>	<b>1</b>	<b>4</b>	<b>0.5</b>	<b>3.2</b>	<b>3.2</b>

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

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

**Russets**  
Bs: < 4 oz  
As: 4 - 10 oz  
OV: > 10 oz  
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: 7/6/17  
Rating 1-5  
1: Slow emergence  
5: Early emergence (vigorous vine, some flowering)

**<sup>6</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 5/26/17  
Vine Kill Date  
Harvest Date 10/6/17  
Days (planting to vine kill)  
Days (planting to harvest) 142  
GDD<sub>40</sub> MAWN Station Allegan  
GDD<sub>40</sub> (planting to vine kill)  
Seed Spacing 10"

## 2017 Russet Variety Descriptions

Entry	Pedigree	2016 Scab Rating*	Characteristics
Caribou Russet (AF3362-1Rus)	Reeves Kingpin x Silverton Russet	0.6	Long russet with excellent yield, processing potential and good appearance, common scab tolerance, early bulking potential, medium russet skin, tolerant to Sencor & Linuron, some internal browning from heat stress observed in 2015, PVY susceptible, below average tuber set
GoldRush Russet (ND1538-1Rus)	ND450-3Rus x Lemhi Russet	0.0	Medium maturity, oblong-blocky to long tubers, bright white flesh, common scab resistance, average yield potential
Payette Russet (A02507-2LB)	EGA09702-2 x GemStar Russet	0.3	High yield potential, high specific gravity, late blight and PVY resistance, late maturing
Russet Norkotah (ND534-4Rus)	ND9526-4Rus x ND9687-5Rus	0.6	Average yield, mid-season maturity, long to oblong tubers, heavy russet skin, low specific gravity
Reveille Russet (ATX91137-1Rus)	Bannock Russet x A83343-12	0.2	Excellent yield potential, common scab tolerant, early bulking, nice uniform dark russeted skin with good general tuber appearance, occasional misshaped tubers observed
Silverton Russet (AC83064-6)	A76147-2 x A7875-5	0.3	High yield, oblong to long blocky tuber type, medium netted russet skin, masks PVY, medium specific gravity, PVY, Sencor & Linuron susceptibility
A06021-1TRUS	A99031-1TE x A96013-2	0.3	Medium yield potential, prominent lenticels, common scab tolerance, nice blocky tuber type, light to medium russet skin
A06030-23RUS	Premier Russet x A99133-6	-	--
A07061-6RUS	Clearwater Russet x Targhee Russet	-	--

(2017 Russet Varieties cont.)

<b>Entry</b>	<b>Pedigree</b>	<b>2016 Scab Rating*</b>	<b>Characteristics</b>
A08433-4VRRUS	Dakota Trailblazer x A01667-3	-	--
AF5091-8RUS	AF4116-9 x AF4185-1	1.5	A mid-season russet with better marketable yields than Russet Burbank in Maine trials, long to oblong tubers that tend to be large, resistance to blackspot bruise
AF5179-4RUS	A01601-4 x Highland Russet	1.7	A medium-late maturing russet with better marketable yields than Russet Burbank in Maine trials, long to oblong tubers that tend to be large, resistance to verticillium wilt
AF5312-1RUS	A86102-6 x CO82142-4	-	--
AF5468-5RUS	NY132 x Liberator	-	--
AF5525-2RUS	AF4320-7RUS x Russet Norkotah	-	--
AF5628-2RUS	AF4320-7RUS x Summit Russet	-	--
AF5644-8RUS	Summit Russet x AF4342-3	-	--
AF5659-1RUS	Blazer Russet x A84180-8	-	--
AF5661-5RUS	Blazer Russet x AF4342-3	-	--
CO05175-1RUS	Mesa Russet x AC96052-1RU	0.5	High yield potential, medium specific gravity, long tubers, medium vine maturity, resistant to blackspot bruise, processing potential



(2017 Russet Varieties cont.)

<b>Entry</b>	<b>Pedigree</b>	<b>2016 Scab Rating*</b>	<b>Characteristics</b>
COAF11018-10RUS	AC00395-2RY x CO99100-1RUS	-	--
COAF11018-7RUS	AC00395-2RY x CO99100-1RUS	-	--
COAF1112-10RUS	Premier Russet x CO98067-7RUS	-	--
COAF1112-13RUS	Premier Russet x CO98067-7RUS	-	--
CW08221-5RUS	CO98067-7RUS x A99073-1RUS	-	--
ND050032-4RUS	Dakota Russet x Dakota Trailblazer	0.2	High yield potential, large size profile, medium maturity, light russeted skin with blocky tuber shape
TX08352-5RUS	TXA549-1Ru x AOTX98137-1Ru	0.3	Nice slightly blocky shape, larger size profile, medium vine vigor and maturity, semi-erect vines
W10594-16RUS	Premier Russet x Freedom Russet	0.0	--
W10612-8RUS	W6360-1RUS x Russet Norkotah	0.0	--
W9433-1RUS	Cal White x A96023-6RUS	0.6	Light russet skin type, high yield potential, tolerance to verticillium wilt and early blight, medium-late maturity, oblong to blocky tubers
W9742-3RUS	A99134-1 x Dakota Trailblazer	0.9	Medium-late maturity, high specific gravity, pear shaped tubers
WAF10073-3RUS	Freedom Russet x Alpine Russet	-	--
WAF10612-1RUS	W6360-1RUS x Silverton Russet	-	--

(2017 Russet Varieties cont.)

<b>Entry</b>	<b>Pedigree</b>	<b>2016 Scab Rating*</b>	<b>Characteristics</b>
WND8625-2RUS	W2699-1RUS x Silverton Russet	-	Medium maturity, average yield potential, dual-purpose tubers, high specific gravity, goo storability with low sugar accumulation

\* 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.