

# **2019 Potato Outreach Program On-Farm Variety Trials**

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

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## 2019 Michigan Statewide Russet Potato Variety Trials Overall Averages- Fourteen Locations

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>					RAW TUBER QUALITY <sup>4</sup> (%)					COMMON SCAB RATING <sup>5</sup>	VINE VIGOR <sup>7</sup>	VINE MATURITY <sup>8</sup>	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR <sup>2</sup>	HH	VD	IBS	BC				
Reveille Russet <sup>abcdeghiklmn</sup>	524	596	87	7	60	27	6	1.071	2	6	3	0	0.4	2.6	3.1	mod skinning, uniform type
A08433-4sto <sup>abcdeghiklmn</sup>	466	571	81	11	64	17	8	1.079	16	5	0	0	0.3	2.9	3.8	misshapen pos, points, sl gc
Silverton Russet <sup>abcdeghiklmn</sup>	437	539	82	11	64	18	7	1.073	4	6	6	1	0.2	3.4	3.5	mod gc, points, bottlenecking
Alta Cloud Russet <sup>l</sup>	435	561	78	10	72	6	12	1.078	20	10	3	10	0.0	2.0	3.5	heavy russetting, bottlenecking
Russet Norkotah <sup>abcdeghiklmn</sup>	425	535	77	15	61	16	8	1.074	43	15	0	4	0.7	2.9	2.7	severe pinkete, mod ah
A071012-4BFRUS <sup>abcdeghiklmn</sup>	406	514	79	12	57	22	9	1.084	35	4	0	1	1.0	3.4	3.8	tubular, knobs, misshapen, long shape
A07061-6RUS <sup>abcdeghiklmn</sup>	392	502	78	15	55	23	7	1.078	6	6	1	0	1.0	3.5	3.5	light russet skin, variable skin finish
AOR07781-5 <sup>abcdeghiklmn</sup>	391	512	75	13	61	14	12	1.087	20	6	1	0	0.0	3.6	3.7	attractive appearance, sl skinning
River Russet <sup>bcefhiklmn</sup>	388	518	76	8	51	25	16	1.074	30	3	6	1	0.2	3.0	3.2	poor shape and size, misshapen
Vanguard <sup>abcdeghiklmn</sup>	365	450	78	16	66	12	6	1.067	0	9	1	0	0.3	2.6	2.1	blocky, attractive type, tr ah
Pacific Russet <sup>bceghiklmn</sup>	361	470	71	25	63	8	4	1.068	0	12	0	0	0.6	3.3	2.4	variable type, points, deep apical ends
Castle Russet <sup>abcdeghiklmn</sup>	351	428	79	17	69	10	4	1.086	36	11	0	4	0.1	2.4	3.5	dark skin, nice appearance
Payette Russet <sup>ci</sup>	314	427	72	16	67	5	12	1.091	10	20	0	0	0.5	1.5	2.8	skinning, blocky shape
AO02183-2 <sup>abcdeghijklmn</sup>	313	450	64	28	62	2	8	1.086	14	23	1	2	0.3	2.8	3.4	tubular, bottlenecking, mod ah
Dakota Russet <sup>ik</sup>	308	404	76	19	63	13	5	1.083	0	5	0	0	0.5	2.5	3.3	silverton type, mod ah
CO10091-1RUS <sup>cefhiklmn</sup>	292	418	68	28	66	2	4	1.083	19	13	8	1	0.1	1.7	3.3	smaller tubers, sl skinning, rounder
Goldrush Russet <sup>cef</sup>	244	354	66	27	61	5	7	1.076	17	3	9	9	9.0	2.7	1.8	attractive dark russet skin
Ranger Russet <sup>ci</sup>	243	484	48	39	47	1	13	1.095	7	30	0	0	1.2	3.0	3.0	tubular, dark skin, mod ah
Clearwater Russet <sup>i</sup>	216	346	62	34	59	3	4	1.087	0	70	0	0	0.5	2.0	2.5	
Russet Burbank <sup>ej</sup>	142	434	30	43	29	1	27	1.080	15	15	0	0	0.7	3.5	3.2	oblong type, misshapen pos
Umatilla Russet <sup>i</sup>	111	378	29	62	29	0	9	1.087	0	30	0	0	1.5	2.5	2.0	smaller tubers, inconsistent shape
<b>MEAN</b>	<b>339</b>	<b>471</b>	<b>69</b>	<b>22</b>	<b>58</b>	<b>11</b>	<b>9</b>	<b>1.080</b>	<b>14</b>	<b>14</b>	<b>2</b>	<b>2</b>	<b>0.9</b>	<b>2.8</b>	<b>3.1</b>	

**2019 RUSSET VARIETY TRIAL SITES**

- a 4-L Farms, Allegan County
- b Crawford Farms, Montcalm County
- c Elmable Farms, Kalkaska County
- d Horkey Brothers, Monroe County
- e Jenkins Farms, Kalkaska County
- f Kitchen Farms, Antrim County
- g Kitchen Farms Mini Bulk Trial, Antrim County
- h Lennard Ag. Co., St. Clair County
- i Montcalm Research Center, Montcalm County
- j NFPT Trial Selected Varieties, St. Joseph County
- k Styma Potato Farm, Presque Isle County
- l Verbigghe Farms, Delta County
- m Walther Farms Norkotah Fertility Trial, St. Joseph County
- n Walther Farms Silverton Fertility Trial, St. Joseph County

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

- 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)**  
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: Variable  
Rating 1-5  
1: Slow emergence  
5: Early emergence (vigorous vine, some flowering)

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

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

# 2019 Russet Potato Variety Trial

## 4-L Farms

Planting: 5/28/19 Vine Kill: 9/12/19 Harvest: 10/24/19

GDD<sub>40</sub>: 3164

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>					RAW TUBER QUALITY <sup>4</sup> (%)					COMMON SCAB RATING <sup>5</sup>	VINE VIGOR <sup>7</sup>	VINE MATURITY <sup>8</sup>	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR <sup>2</sup>	HH	VD	IBS	BC				
A07061-6RUS	510	548	94	3	67	27	3	1.071	0	0	0	0	1.0	2.5	4.0	
A071012-4BFRUS	510	548	93	2	44	49	5	1.090	90	0	0	0	2.0	3.0	3.5	eyebrows
A08433-4sto	468	527	89	3	52	37	8	1.074	30	0	0	0	0.0	3.0	3.5	sl flattened tubers
AO02183-2	340	405	84	12	80	4	4	1.080	30	0	0	10	2.0	2.5	3.0	darker russet skin
AOR07781-5	488	555	87	5	59	28	8	1.080	40	10	10	0	0.0	3.0	4.0	pointed
Castle Russet	458	501	91	3	57	34	5	1.077	50	0	0	0	0.0	2.0	4.0	nice dark russet skin type
Reveille Russet	529	570	91	5	37	54	4	1.065	0	0	0	0	0.0	2.0	4.0	
<b>Russet Norkotah</b>	<b>579</b>	<b>637</b>	<b>89</b>	<b>5</b>	<b>42</b>	<b>47</b>	<b>6</b>	<b>1.072</b>	<b>100</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>3.0</b>	<b>4.0</b>	
<b>Silverton Russet</b>	<b>567</b>	<b>674</b>	<b>84</b>	<b>3</b>	<b>45</b>	<b>39</b>	<b>13</b>	<b>1.062</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>3.0</b>	<b>4.0</b>	<b>misshapen pos</b>
Vanguard	420	456	92	3	65	27	5	1.059	0	0	0	0	0.0	2.5	3.5	
<b>MEAN</b>	<b>487</b>	<b>542</b>	<b>89</b>	<b>4</b>	<b>55</b>	<b>35</b>	<b>6</b>	<b>1.073</b>	<b>34</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0.5</b>	<b>2.7</b>	<b>3.8</b>	

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

**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: 7/5/19  
Rating 1-5  
1: Slow emergence  
5: Early emergence (vigorous vine, some flowering)

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

Date: 8/14/19  
Rating 1-5  
1: Early (vines completely dead)  
5: Late (vigorous vines, some flowering)

**FIELD DATA**

Planting Date 5/28/19  
Vine Kill Date 9/12/19  
Harvest Date 10/24/19  
Days (planting to vine kill) 107  
Days (planting to harvest) 149  
GDD<sub>40</sub> MAWN Station Allegan  
GDD<sub>40</sub> (planting to vine kill) 3164  
Seed Spacing 10"

# 2019 Russet Potato Variety Trial

## Crawford Farms

Planting: 6/7/19 Vine Kill: 9/16/19 Harvest: 10/28/19  
GDD<sub>40</sub>: 2784

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>					RAW TUBER QUALITY <sup>4</sup> (%)					COMMON SCAB RATING <sup>5</sup>	VINE VIGOR <sup>7</sup>	VINE MATURITY <sup>8</sup>	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR <sup>2</sup>	HH	VD	IBS	BC				
A08433-4sto	505	598	84	8	72	12	8	1.074	40	0	0	0	0.0	3.0	4.0	med russet, rhizoc
<b>Silverton Russet</b>	<b>479</b>	<b>566</b>	<b>85</b>	<b>11</b>	<b>79</b>	<b>6</b>	<b>4</b>	<b>1.076</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>3.0</b>	<b>4.0</b>	
Reveille Russet	415	465	89	9	65	24	2	1.072	0	0	0	0	0.0	1.0	3.5	uniform medium to dark russet
River Russet	336	419	81	5	66	15	14	1.070	70	0	0	0	0.0	3.0	3.0	med russetting
A071012-4BFRUS	330	457	72	15	63	9	13	1.096	30	0	0	0	1.5	3.5	3.5	
<b>Russet Norkotah</b>	<b>299</b>	<b>413</b>	<b>72</b>	<b>8</b>	<b>64</b>	<b>8</b>	<b>20</b>	<b>1.069</b>	<b>50</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>0.0</b>	<b>2.5</b>	<b>3.0</b>	<b>moderate pink eye inconsistent russetting</b>
Vanguard	275	357	77	19	67	10	4	1.068	0	0	0	0	0.0	1.0	1.5	tr ah
AOR07781-5	268	445	61	23	56	5	16	1.088	10	0	0	0	0.0	4.0	3.5	nice appearance, pinecone, misshapen po
A07061-6RUS	252	405	62	35	61	1	3	1.082	0	0	0	0	0.0	4.0	4.0	bright appearance, no russetting, thin skinned
Castle Russet	210	252	83	12	69	14	5	1.089	50	0	0	10	0.0	2.0	3.5	attractive skin and type, mod gc
Pacific Russet	151	278	55	44	50	5	1	1.067	0	0	0	0	0.0	3.0	3.0	
A002183-2	100	357	28	62	28	0	10	1.101	0	10	0	0	0.0	2.0	3.5	tubular, pinecone shaped tubers
<b>MEAN</b>	<b>302</b>	<b>418</b>	<b>71</b>	<b>21</b>	<b>62</b>	<b>9</b>	<b>8</b>	<b>1.079</b>	<b>21</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>3</b>	<b>3</b>	

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

**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: 7/5/19  
Rating 1-5  
1: Slow emergence  
5: Early emergence (vigorous vine, some flowering)

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

Date: 8/30/19  
Rating 1-5  
1: Early (vines completely dead)  
5: Late (vigorous vines, some flowering)

**FIELD DATA**

Planting Date 6/7/19  
Vine Kill Date 9/16/19  
Harvest Date 10/28/19  
Days (planting to vine kill) 101  
Days (planting to harvest) 143  
GDD<sub>40</sub> MAWN Station Entrican  
GDD<sub>40</sub> (planting to vine kill) 2784  
Seed Spacing 10"

# 2019 Russet Potato Variety Trial

## Elmapple Farms

Planting: 5/13/19 Vine Kill: 9/17/19 Harvest: 10/3/19

GDD<sub>40</sub>: 3015

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>					RAW TUBER QUALITY <sup>4</sup> (%)						COMMON SCAB RATING <sup>5</sup>	VINE VIGOR <sup>7</sup>	VINE MATURITY <sup>8</sup>	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR <sup>2</sup>	HH	VD	IBS	BC					
A07061-6RUS	635	736	86	9	76	10	5	1.084	0	20	0	0	1.0	4.5	3.0	mod alligator hide and scurf	
A08433-4sto	605	692	87	7	64	23	6	1.085	30	20	0	0	0.5	3.5	4.0	sl scab, mod rhizoc	
Pacific Russet	569	701	81	14	72	9	5	1.075	0	10	0	0	0.0	4.0	2.0	variable tuber type	
Reveille Russet	553	669	82	7	63	19	11	1.075	20	20	0	0	0.0	3.0	3.5	sl skinning	
Castle Russet	528	607	87	10	75	12	3	1.082	100	0	0	0	0.0	3.0	4.5	prominent eyes, darker skin	
<b>Silverton Russet</b>	<b>505</b>	<b>599</b>	<b>84</b>	<b>14</b>	<b>75</b>	<b>9</b>	<b>2</b>	<b>1.077</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.5</b>	<b>4.0</b>	<b>3.5</b>	<b>mod skinning, sl skin flaking</b>	
River Russet	465	599	77	7	56	21	16	1.077	30	10	0	0	1.0	3.5	2.5	blocky, non uniform	
A071012-4BFRUS	462	579	79	10	66	13	11	1.092	70	10	0	0	0.5	4.0	4.0		
<b>Russet Norkotah</b>	<b>453</b>	<b>554</b>	<b>82</b>	<b>11</b>	<b>68</b>	<b>14</b>	<b>7</b>	<b>1.072</b>	<b>60</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>2.0</b>	<b>3.0</b>	<b>2.5</b>	<b>pinkeye, ah</b>	
AOR07781-5	429	507	84	8	76	8	8	1.089	70	20	0	0	0.0	4.0	3.5	large tubers, nice appearance	
Vanguard	426	534	79	8	58	21	13	1.070	0	20	0	0	0.5	2.5	2.0	blocky, attractive shape	
Payette Russet	407	527	77	12	69	8	11	1.090	20	10	0	0	0.5	1.5	3.5	moderate skinning	
<b>Goldrush Russet</b>	<b>402</b>	<b>511</b>	<b>78</b>	<b>21</b>	<b>68</b>	<b>10</b>	<b>1</b>	<b>1.076</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>3.5</b>	<b>2.0</b>	<b>darker netted skin, attractive</b>	
CO10091-1RUS	368	479	77	18	74	3	5	1.084	50	0	0	0	0.0	2.0	3.5	gc, ah	
Ranger Russet	328	551	59	34	55	4	7	1.095	20	20	0	0	0.5	3.0	2.5	tubular	
A002183-2	242	395	61	31	58	3	8	1.095	0	40	0	0	0.0	3.0	3.0	tubular	
<b>MEAN</b>	<b>461</b>	<b>578</b>	<b>79</b>	<b>14</b>	<b>67</b>	<b>12</b>	<b>7</b>	<b>1.082</b>	<b>32</b>	<b>14</b>	<b>0</b>	<b>0</b>	<b>0.4</b>	<b>3.3</b>	<b>3.1</b>		

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

#### 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: 6/24/19  
Rating 1-5  
1: Slow emergence  
5: Early emergence (vigorous vine, some flowering)

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

Date: 8/23/19  
Rating 1-5  
1: Early (vines completely dead)  
5: Late (vigorous vines, some flowering)

### FIELD DATA

Planting Date 5/13/19  
Vine Kill Date 9/17/19  
Harvest Date 10/3/19  
Days (planting to vine kill) 127  
Days (planting to harvest) 143  
GDD<sub>40</sub> MAWN Station Arlene  
GDD<sub>40</sub> (planting to vine kill) 3015  
Seed Spacing 10"

# 2019 Russet Potato Variety Trial

## Horkey Brothers

Planting: 5/16/19 Vine Kill: 9/4/19 Harvest: 9/26/19

GDD<sub>40</sub>: 3285

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>					RAW TUBER QUALITY <sup>4</sup> (%)					COMMON SCAB RATING <sup>5</sup>	VINE VIGOR <sup>7</sup>	VINE MATURITY <sup>8</sup>	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR <sup>2</sup>	HH	VD	IBS	BC				
Reveille Russet	529	620	85	7	77	8	8	1.062	0	0	30	0	0.5	3.5	2.0	moderate skinning, attractive type
A08433-4sto	492	726	68	14	66	2	18	1.076	40	0	0	0	2.0	3.5	4.0	pinkeye, moderate pithium leak
<b>Silverton Russet</b>	<b>423</b>	<b>646</b>	<b>66</b>	<b>10</b>	<b>63</b>	<b>3</b>	<b>24</b>	<b>1.066</b>	<b>0</b>	<b>20</b>	<b>60</b>	<b>10</b>	<b>0.5</b>	<b>4.0</b>	<b>3.5</b>	<b>medium skin, bottlenecking, misshapen</b>
Pacific Russet	371	496	75	20	73	2	6	1.051	0	30	0	0	3.5	3.5	1.0	done evaluating
<b>Russet Norkotah</b>	<b>313</b>	<b>566</b>	<b>55</b>	<b>20</b>	<b>54</b>	<b>1</b>	<b>25</b>	<b>1.060</b>	<b>50</b>	<b>40</b>	<b>0</b>	<b>10</b>	<b>0.0</b>	<b>3.0</b>	<b>2.0</b>	<b>darker skin, severe pinkeye, tubular</b>
AOR07781-5	310	499	63	15	62	1	23	1.077	0	0	0	0	0.0	4.0	2.5	heavy russet skin, sl skinning
A071012-4BFRUS	220	392	57	20	56	1	24	1.079	0	0	0	0	2.5	4.0	3.0	tubular, bottlenecking, done evaluating
Vanguard	180	267	67	27	66	1	6	1.053	0	0	10	0	2.0	3.0	1.0	
Castle Russet	135	213	63	34	63	0	3	1.076	20	0	0	0	0.0	3.0	3.5	dark russet skin
A07061-6RUS	132	299	44	35	44	0	21	1.057	0	0	0	0	4.0	3.5	3.0	bottlenecking, poor appearance
A002183-2	123	251	49	34	46	3	17	1.071	0	0	0	0	0.0	3.5	2.5	sticky stolons, tubular
<b>MEAN</b>	<b>293</b>	<b>452</b>	<b>63</b>	<b>21</b>	<b>61</b>	<b>2</b>	<b>16</b>	<b>1.066</b>	<b>10</b>	<b>8</b>	<b>9</b>	<b>2</b>	<b>1.4</b>	<b>3.5</b>	<b>2.5</b>	

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

#### 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: 6/25/19  
Rating 1-5  
1: Slow emergence  
5: Early emergence (vigorous vine, some flowering)

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

Date: 8/30/19  
Rating 1-5  
1: Early (vines completely dead)  
5: Late (vigorous vines, some flowering)

### FIELD DATA

Planting Date 5/16/19  
Vine Kill Date 9/4/19  
Harvest Date 9/26/19  
Days (planting to vine kill) 111  
Days (planting to harvest) 133  
GDD<sub>40</sub> MAWN Station Deerfield  
GDD<sub>40</sub> (planting to vine kill) 3285  
Seed Spacing 10"

# 2019 Russet Potato Variety Trial

## Jenkins Farms

Planting: 5/21/19 Vine Kill: 9/1/19 Harvest: 10/4/19

GDD<sub>40</sub>: 2588

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>					RAW TUBER QUALITY <sup>4</sup> (%)					COMMON SCAB RATING <sup>5</sup>	VINE VIGOR <sup>7</sup>	VINE MATURITY <sup>8</sup>	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR <sup>2</sup>	HH	VD	IBS	BC				
Reveille Russet	662	720	92	4	53	39	4	1.073	0	20	0	0	0.3	2.5	3.5	blocky shape
AOR07781-5	534	669	80	13	64	16	7	1.094	30	10	0	0	0.5	3.0	4.0	
<b>Russet Norkotah</b>	<b>463</b>	<b>546</b>	<b>85</b>	<b>14</b>	<b>70</b>	<b>15</b>	<b>1</b>	<b>1.072</b>	<b>90</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>3.0</b>	<b>3.0</b>	
A071012-4BFRUS	447	549	82	12	67	15	6	1.094	20	0	0	0	0.5	4.0	4.5	misshapen pos
River Russet	411	541	76	11	58	18	13	1.077	20	0	0	0	0.0	4.0	4.0	
Castle Russet	379	509	75	19	74	1	6	1.094	30	30	0	0	0.0	2.5	3.5	sl skinning
A002183-2	339	554	61	39	61	0	0	1.085	0	40	0	0	0.5	3.0	4.0	long and narrow tubers
Russet Burbank	336	537	63	31	60	3	6	1.089	30	20	0	0	0.0	4.5	4.0	oblong tubers, skinning, pointed ends
<b>Silverton Russet</b>	<b>273</b>	<b>381</b>	<b>72</b>	<b>19</b>	<b>69</b>	<b>3</b>	<b>9</b>	<b>1.080</b>	<b>20</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>4.0</b>	<b>3.5</b>	
A07061-6RUS	271	348	78	18	71	7	4	1.076	0	20	0	0	1.5	4.0	4.0	round russet shape, lighter skin
Vanguard	266	339	78	13	65	13	9	1.067	0	20	0	0	0.0	3.0	2.0	moderate skinning, 2 glassy ends
CO10091-1RUS	254	414	61	38	57	4	1	1.085	0	40	0	0	0.0	2.0	4.5	attractive appearance, sl growth crack
<b>Goldrush Russet</b>	<b>157</b>	<b>299</b>	<b>53</b>	<b>33</b>	<b>49</b>	<b>4</b>	<b>14</b>	<b>1.071</b>	<b>10</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>2.0</b>	<b>2.0</b>	<b>dark russet skin</b>
Pacific Russet	63	200	32	64	32	0	4	1.071	0	10	0	0	0.0	3.5	4.0	
A08433-4sto														2.0	4.0	
<b>MEAN</b>	<b>347</b>	<b>472</b>	<b>71</b>	<b>23</b>	<b>61</b>	<b>10</b>	<b>6</b>	<b>1.081</b>	<b>18</b>	<b>18</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>4</b>	

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

#### 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: 6/24/19  
Rating 1-5  
1: Slow emergence  
5: Early emergence (vigorous vine, some flowering)

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

Date: 8/23/19  
Rating 1-5  
1: Early (vines completely dead)  
5: Late (vigorous vines, some flowering)

### FIELD DATA

Planting Date 5/21/19  
Vine Kill Date 9/1/19  
Harvest Date 10/4/19  
Days (planting to vine kill) 103  
Days (planting to harvest) 136  
GDD<sub>40</sub> MAWN Station Arlene  
GDD<sub>40</sub> (planting to vine kill) 2588  
Seed Spacing 10"

# 2019 Russet Potato Variety Trial

## Kitchen Farms

Planting: 5/14/19 Vine Kill: 8/25/19 Harvest: 10/7/19  
GDD<sub>40</sub>: 2232

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>					RAW TUBER QUALITY <sup>4</sup> (%)						COMMON SCAB RATING <sup>5</sup>	VINE VIGOR <sup>7</sup>	VINE MATURITY <sup>8</sup>	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR <sup>2</sup>	HH	VD	IBS	BC					
Castle Russet	456	510	90	9	86	4	1	1.097	20	0	0	10	0.3	2.0	4.5	nice shape and size, misshapen pos	
River Russet	431	541	80	7	58	22	13	1.086	80	0	0	10	0.0	1.5	3.5	poor shape and size, done evaluating	
<b>Russet Norkotah</b>	<b>409</b>	<b>563</b>	<b>72</b>	<b>24</b>	<b>70</b>	<b>2</b>	<b>4</b>	<b>1.082</b>	<b>60</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>1.8</b>	<b>2.0</b>	<b>2.0</b>	<b>misshapen po, tr gc, sl skinning</b>	
A071012-4BFRUS	383	487	79	17	75	4	4	1.017	90	0	0	10	0.5	2.5	4.5	tubular, poor appearance, anthocyanin on bud ends	
<b>Silverton Russet</b>	<b>363</b>	<b>472</b>	<b>77</b>	<b>22</b>	<b>72</b>	<b>5</b>	<b>1</b>	<b>1.085</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>3.0</b>	<b>2.5</b>		
A002183-2	337	497	68	30	68	0	2	1.100	10	10	0	0	0.5	2.0	4.5	long, narrow, tubular	
CO10091-1RUS	281	454	62	34	62	0	4	1.094	90	10	0	0	0.0	1.0	3.5	sl skinning	
AOR07781-5	233	327	71	19	60	11	10	1.100	50	0	0	0	0.0	2.0	4.0	attractive skin, eyebrows	
<b>Goldrush Russet</b>	<b>174</b>	<b>251</b>	<b>69</b>	<b>26</b>	<b>67</b>	<b>2</b>	<b>5</b>	<b>1.080</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>2.5</b>	<b>1.5</b>	<b>nice appearance, dark russet skin</b>	
A07061-6RUS														3.0	2.5		
<b>MEAN</b>	<b>341</b>	<b>456</b>	<b>74</b>	<b>21</b>	<b>69</b>	<b>6</b>	<b>5</b>	<b>1.082</b>	<b>47</b>	<b>3</b>	<b>0</b>	<b>3</b>	<b>0.3</b>	<b>2.2</b>	<b>3.3</b>		

**<sup>1</sup>SIZE**  
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: 6/24/19  
Rating 1-5  
1: Slow emergence  
5: Early emergence (vigorous vine, some flowering)

**<sup>6</sup>VINE MATURITY RATING**  
Date: 8/23/19  
Rating 1-5  
1: Early (vines completely dead)  
5: Late (vigorous vines, some flowering)

**FIELD DATA**  
Planting Date 5/14/19  
Vine Kill Date 8/25/19  
Harvest Date 10/7/19  
Days (planting to vine kill) 103  
Days (planting to harvest) 146  
GDD<sub>40</sub> MAWN Station Kalkaska  
GDD<sub>40</sub> (planting to vine kill) 2232  
Seed Spacing 10"



# 2019 Mini Bulk Russet Potato Variety Trial

## Kitchen Farms

Planting: 5/14/19 Vine Kill: 8/25/19 Harvest: 10/7/19  
GDD<sub>40</sub>: 2232

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>					RAW TUBER QUALITY <sup>4</sup> (%)						COMMON SCAB RATING <sup>5</sup>	VINE VIGOR <sup>7</sup>	VINE MATURITY <sup>8</sup>	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR <sup>2</sup>	HH	VD	IBS	BC					
Reveille Russet	468	555	85	8	69	16	7	1.084	0	0	0	0	0.0	3.0	3.5		
Vanguard	457	523	87	12	80	7	1	1.078	0	0	0	0	0.0	2.5	2.5	attractive type and appearance	
A08433-4sto	371	453	82	18	81	1	0	1.087	10	0	0	0	0.0	3.5	4.0		
Pacific Russet														3.0	1.5		
<b>MEAN</b>	<b>432</b>	<b>510</b>	<b>85</b>	<b>13</b>	<b>77</b>	<b>8</b>	<b>3</b>	<b>1.083</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3.0</b>	<b>2.9</b>		

<sup>1</sup>SIZE

**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: 6/24/19  
Rating 1-5  
1: Slow emergence  
5: Early emergence (vigorous vine, some flowering)

<sup>6</sup>VINE MATURITY RATING

Date: 8/23/19  
Rating 1-5  
1: Early (vines completely dead)  
5: Late (vigorous vines, some flowering)

FIELD DATA

Planting Date	5/14/19
Vine Kill Date	8/25/19
Harvest Date	10/7/19
Days (planting to vine kill)	103
Days (planting to harvest)	146
GDD <sub>40</sub> MAWN Station	Kalkaska
GDD <sub>40</sub> (planting to vine kill)	2232
Seed Spacing	10"

# 2019 Russet Potato Variety Trial

## Lennard Ag. Co.

Planting: 4/25/19 Vine Kill: 9/24/19 Harvest: 10/9/19

GDD<sub>40</sub>: 4092

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>					RAW TUBER QUALITY <sup>4</sup> (%)					COMMON SCAB RATING <sup>5</sup>	VINE VIGOR <sup>7</sup>	VINE MATURITY <sup>8</sup>	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR <sup>2</sup>	HH	VD	IBS	BC				
Silverton Russet	545	650	84	10	62	22	6	1.076	0	10	10	0	0.5	3.5	3.0	misshapen pos, moderate growth cracks
Russet Norkotah	534	601	89	10	72	17	1	1.081	0	0	0	0	0.0	2.5	4.0	
A07061-6RUS	533	615	88	3	11	77	9	1.101	50	0	0	0	0.3	3.0	3.5	moderate alligator hide, variable russetting
AOR07781-5	500	618	81	14	72	9	5	1.090	0	0	0	0	0.0	3.5	4.0	pale yellow flesh, attractive shape and type
AO02183-2	461	551	84	12	79	5	4	1.087	40	0	0	0	0.5	2.0	3.0	tuber bottlenecking, pear shapes
Reveille Russet	460	547	84	12	75	9	4	1.073	0	0	0	0	0.0	2.0	2.5	
A08433-4sto	440	498	88	10	68	20	2	1.082	0	0	0	0	0.0	3.0	3.5	misshapen pos, moderate mechanical damage
Castle Russet	431	504	86	12	78	7	2	1.090	20	30	0	0	0.0	2.5	2.0	variable skin color, some alligator hide
River Russet	427	582	73	11	59	14	16	1.075	20	0	30	0	0.5	3.5	2.0	poor appearance, deep eyes, tubular
Pacific Russet	416	497	84	13	71	12	3	1.072	0	0	0	0	0.5	3.0	2.5	deep apical ends, rot, nice appearance
Vanguard	405	529	76	21	75	1	3	1.074	0	0	0	0	0.0	2.5	3.0	light russet, long and narrow, bent ends
CO10091-1Rus	329	434	76	19	74	2	5	1.088	10	0	40	0	1.0	2.0	2.5	
<b>MEAN</b>	<b>457</b>	<b>552</b>	<b>83</b>	<b>12</b>	<b>66</b>	<b>16</b>	<b>5</b>	<b>1.083</b>	<b>12</b>	<b>3</b>	<b>7</b>	<b>0</b>	<b>0.3</b>	<b>2.8</b>	<b>3.0</b>	

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

#### 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: 6/3/19

Rating 1-5

1: Slow emergence

5: Early emergence (vigorous vine, some flowering)

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

Date: 8/13/19

Rating 1-5

1: Early (vines completely dead)

5: Late (vigorous vines, some flowering)

### FIELD DATA

Planting Date 4/25/19

Vine Kill Date 9/24/19

Harvest Date 10/9/19

Days (planting to vine kill) 152

Days (planting to harvest) 167

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

GDD<sub>40</sub> (planting to vine kill) 4092

Seed Spacing 10"

# 2019 Russet Processing Potato Variety Trial

## Montcalm Reseach Center

Planting: 5/8/19 Vine Kill: 9/9/19 Harvest: 9/30/19  
GDD<sub>40</sub>: 3133

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>					RAW TUBER QUALITY <sup>4</sup> (%)					COMMON SCAB RATING <sup>5</sup>	VINE VIGOR <sup>7</sup>	VINE MATURITY <sup>8</sup>	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR <sup>2</sup>	HH	VD	IBS	BC				
A002183-2	275	415	66	29	66	0	5	1.092	0	80	0	0	1.0	2.5	4.0	variable skin, heavy russetting, severe ah, deep eyes
A08433-4sto	249	359	69	20	68	1	11	1.081	0	20	0	0	0.5	2.5	3.0	
Dakota Russet	225	366	61	34	61	0	5	1.084	0	10	0	0	1.0	2.0	3.0	nice appearnce
Payette Russet	221	326	67	21	65	2	12	1.092	0	30	0	0	0.5	1.5	2.0	skinning, blocky
Clearwater Russet	216	346	62	34	59	3	4	1.087	0	70	0	0	0.5	2.0	2.5	
Ranger Russet	145	385	37	54	37	0	9	1.097	0	70	0	0	2.5	3.0	3.0	darker skin, alligator hide
Castle Russet	117	258	45	49	45	0	6	1.088	10	50	0	0	0.5	2.0	1.5	heavy netted russetted skin
Umatilla Russet	111	378	29	62	29	0	9	1.087	0	30	0	0	1.5	2.5	2.0	small tubers, inconsistent shape
<b>Russet Norkotah</b>	<b>110</b>	<b>256</b>	<b>43</b>	<b>51</b>	<b>43</b>	<b>0</b>	<b>6</b>	<b>1.072</b>	<b>0</b>	<b>80</b>	<b>0</b>	<b>0</b>	<b>0.5</b>	<b>2.5</b>	<b>1.0</b>	
Vanguard	103	225	45	49	45	0	6	1.068	0	20	0	0	0.5	2.0	1.0	alligator hide
Russet Burbank	40	224	18	66	18	0	16	1.075					2.0	2.5	2.5	misshapen pickouts, pitted scab
<b>MEAN</b>	<b>165</b>	<b>322</b>	<b>49</b>	<b>43</b>	<b>49</b>	<b>1</b>	<b>8</b>	<b>1.084</b>	<b>1</b>	<b>46</b>	<b>0</b>	<b>0</b>	<b>1.0</b>	<b>2.3</b>	<b>2.3</b>	

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

**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: 6/17/19  
Rating 1-5  
1: Slow emergence  
5: Early emergence (vigorous vine, some flowering)

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

Date: 9/3/19  
Rating 1-5  
1: Early (vines completely dead)  
5: Late (vigorous vines, some flowering)

**FIELD DATA**

Planting Date	5/8/19
Vine Kill Date	9/9/19
Harvest Date	9/30/19
Days (planting to vine kill)	124
Days (planting to harvest)	145
GDD <sub>40</sub> MAWN Station	Entrican
GDD <sub>40</sub> (planting to vine kill)	3133
Seed Spacing	10"

# Walther NFPT and Added Lines

Planting: 4/16/19 Vine Kill: 8/19/19 Harvest: 9/18/19

GDD<sub>40</sub>: 3243

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>					RAW TUBER QUALITY <sup>4</sup> (%)					COMMON SCAB RATING <sup>5</sup>	VINE VIGOR <sup>7</sup>	VINE MATURITY <sup>8</sup>	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR <sup>2</sup>	HH	VD	IBS	BC				
CO10094-5RU	594	643	41	52	40	1	7	1.075	0	0	0	0	0.0	1.0	3.0	
ND12241YB-2Russ	515	654	73	11	60	13	16	1.089	20	0	20	0	0.5	2.5	2.5	pointed, misshapen
ND13243B-3Russ	503	825	61	14	59	2	25	1.076	0	0	10	0	0.5	3.0	3.5	severe bottlenecking
A11188-1	492	542	91	4	71	20	5	1.064	0	0	0	0	1.0	3.0	3.0	trace growth crack, alligator hide
A10071-1	481	569	85	15	79	6	0	1.071	0	0	0	0	0.0	4.5	4.0	nice dark russet skin type, good appearance
A10595-13sto	477	688	69	25	61	8	6	1.071	10	0	0	20	0.0	4.0	2.0	lighter russet, alligator hide, non uniform
AO02183-2	462	555	38	42	38	0	20	1.079	10	20	0	0	0.0	3.0	2.5	poor type and appearance
OR12133-10	461	754	61	16	54	7	23	1.089	0	0	0	0	0.5	3.5	4.0	pointed, misshapen, non uniform type
A10594-8VR	459	624	74	12	63	11	14	1.093	80	10	0	20	0.0	3.5	5.0	moderate to severe pinkeye, irregular tuber type
ND113100-1Russ	456	640	79	5	55	24	16	1.071	10	20	0	0	0.0	3.0	2.0	pointed ends
ND13242B-3Russ	446	616	80	15	70	10	5	1.077	0	0	0	0	0.5	2.0	3.0	non uniform tuber type
A10007-3	431	525	82	11	71	11	7	1.063	0	10	10	0	0.0	4.0	4.5	moderate alligator hide, non uniform
AOR12149-1	404	560	48	7	44	4	45	1.066	0	40	0	0	0.5	4.0	3.0	tubular, knobby, bottlenecking, gc
A12314-1sto	385	677	58	25	58	0	17	1.078	0	10	0	0	0.5	3.0	3.5	non uniform tuber type
A10508-2LB	377	498	76	12	69	7	12	1.077	0	0	30	0	0.5	3.0	3.5	knobs, points, moderate alligator hide
ND13243B-14Russ	374	469												2.0	2.0	
A10611-3adg	363	571	63	15	62	1	22	1.072	0	20	0	0	0.0	2.5	3.0	bottlenecking, misshapen
A09086-1LB	352	502	70	15	57	13	15	1.092	0	0	0	0	0.5	4.0	4.5	light skin, light russetting
A11194-1	338	415	72	18	71	1	10	1.069	0	10	0	0	0.5	4.0	4.0	
A11737-1LB	337	602	70	23	67	3	7	1.068	0	10	0	0	1.5	3.0	3.0	
AOR11217-3	333	581	72	21	71	1	7	1.085	30	20	0	0	0.0	3.5	3.0	tubular
COA11013-2	327	446	72	21	70	2	7	1.066	10	20	10	0	0.5	4.0	3.0	gc, misshapen
A11234-2	327	477	69	22	65	4	9	1.075	0	0	0	0	0.5	3.0	4.0	light russetting
ND13288-2Russ	319	489	65	28	64	1	7	1.083	0	10	0	0	0.5	3.5	2.0	bottleneck
A09119-4LB	318	433	74	14	71	3	12	1.079	0	0	0	0	0.5	3.5	4.0	non uniform tuber type, gc
AOR13064-2	268	567	92	5	87	5	3	1.087	0	40	0	0	0.0	4.0	2.5	good overall appearance
A07769-4	267	343	78	20	77	1	2	1.074	0	20	0	0	0.5	3.0	3.0	smaller uniform tuber type
<b>Ranger Russet</b>	<b>255</b>	<b>517</b>	<b>49</b>	<b>28</b>	<b>49</b>	<b>0</b>	<b>23</b>	<b>1.094</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.5</b>	<b>3.0</b>	<b>3.5</b>	<b>tubular, bottlenecking</b>
A12115-16sto	217	342	57	34	55	2	9	1.075	0	20	0	0	0.5	3.5	3.5	variable skin color, pointed ends, black dot
AF5492-6	204	348	83	15	73	10	2	1.079	0	10	0	0	0.0	3.5	3.5	nice type and appearance
A12114-7	198	283	64	23	60	4	13	1.077	0	10	0	0	0.0	3.0	3.0	gc, bottlenecking
AOR08540-1	189	502	57	29	57	0	14	1.078	50	10	0	10	0.5	3.0	3.0	tubular, bottlenecking
A11326-1	125	173	56	20	56	0	24	1.092	20	10	0	10	0.5	3.0	4.0	heat sprouting, alligator hide
CO11009-3RU	62	149	74	19	70	4	7	1.074	100	0	0	0	1.0	1.0	3.5	nice dark russet skin type, good appearance
<b>Russet Burbank</b>	<b>49</b>	<b>540</b>	<b>9</b>	<b>33</b>	<b>9</b>	<b>0</b>	<b>58</b>	<b>1.076</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>3.5</b>	<b>3.0</b>	<b>poor quality, many pickouts</b>

WAF14006-6	555	655	84	7	71	13	9	1.072	0	10	10	0	0.0	3.0	2.5	nice appearance, but severe gc in pos
COAF13066-1	554	670	83	12	64	19	5	1.084	0	10	0	0	0.0	3.0	3.0	
AF6073-3	543	679	80	7	50	30	13	1.070	10	10	0	0	0.0	3.0	3.0	has pink eyes
AF6104-11	536	693	77	15	58	19	8	1.069	0	20	0	0	0.5	4.0	2.5	rot, misshapen Pos
AAF10736-2	489	792	62	29	59	3	9	1.081	0	30	0	0	0.5	4.0	3.0	pointed, netting, light russetting
WAF14010-3	481	555	86	11	81	5	3	1.071	0	10	20	0	0.0	3.5	2.0	dark skin, trace black dot
AF6061-1	469	659	71	8	53	18	21	1.083	0	50	0	0	1.0	2.5	4.0	non uniform tuber type
AF6075-1	462	791	59	36	33	26	5	1.066	0	10	0	0	0.0	4.5	3.0	done
NDAF1316Y-1	452	695	66	16	58	8	18	1.074	0	20	0	0	0.0	3.5	2.5	pointed misshapen pos, non uniform tuber
AF6075-9	426	741	58	18	53	5	24	1.061	0	20	0	0	0.0	3.0	3.0	bottleneck, misshapen, heat sprouts
AF6104-6	416	527	79	17	63	16	4	1.071	0	20	0	0	0.0	3.5	3.0	attractive tuber type
COTX08063-2Rus	408	535	76	21	74	2	3	1.102	0	10	0	0	0.5	4.0	3.0	
AF6110-3	408	545	75	10	48	27	15	1.067	20	10	0	10	0.5	3.5	3.0	poor type and appearance
AF6086-7	402	519	77	20	75	2	3	1.072	0	30	0	0	0.0	3.5	1.5	smaller uniform tuber type
COAF13004-1	401	507	79	19	78	1	2	1.082	0	10	0	0	0.0	3.0	2.0	
WAF13027-2	400	450	89	9	74	15	2	1.064	0	10	0	0	0.0	3.0	1.5	very good type and appearance, want to see again
COAF11018-10	398	458	87	11	85	2	2	1.077	0	20	0	0	0.0	2.5	1.5	nice type and appearance
AF6075-8	393	962	41	10	34	7	49	1.068	0	20	0	0	0.5	4.0	3.0	many misshapen tubers
AAF11263-1	390	457	86	5	62	24	9	1.099	0	10	0	0	0.5	2.0	3.0	minor scurf, trace black dot
AAF09137-1	384	705	54	17	51	3	29	1.078	0	10	10	0	0.0	3.5	3.0	tubular, bottlenecking
WAF14165-7	380	437	87	9	71	16	4	1.073	0	30	0	0	0.0	3.0	1.5	nice dark russet skin type, good appearance
AF5735-8	347	497	70	21	63	7	9	1.070	20	0	0	0	1.0	2.5	3.5	
AF6118-5	329	677	49	8	47	2	43	1.085	0	10	0	0	0.5	2.5	3.5	bottlenecking, done
AF6132-4	326	818	40	13	31	9	47	1.069	10	10	10	20	0.0	4.0	3.0	light russetting, bottlenecking, misshapen
COTX08322-10Rus	301	445	68	18	58	10	14	1.070	0	30	0	0	0.0	3.0	2.5	growth crack
AF6079-3	277	380	73	23	69	4	4	1.075	0	0	0	0	0.0	3.5	3.5	
AAF10536-3	264	476	55	17	53	2	28	1.089	0	10	0	0	0.0	3.0	2.5	bottlenecking
AF6073-5														4.0	3.0	
<b>MEAN</b>	<b>377</b>	<b>556</b>	<b>67</b>	<b>18</b>	<b>61</b>	<b>8</b>	<b>14</b>	<b>1.077</b>	<b>7</b>	<b>12</b>	<b>2</b>	<b>1</b>	<b>0.3</b>	<b>3.2</b>	<b>3.0</b>	

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

##### 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: 6/3/19  
Rating 1-5  
1: Slow emergence  
5: Early emergence (vigorous vine, some flowering)

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

Date: 8/12/19  
Rating 1-5  
1: Early (vines completely dead)  
5: Late (vigorous vines, some flowering)

#### FIELD DATA

Planting Date 4/16/19  
Vine Kill Date 8/19/19  
Harvest Date 9/18/19  
Days (planting to vine kill) 125  
Days (planting to harvest) 155  
GDD<sub>40</sub> MAWN Station Mendon  
GDD<sub>40</sub> (planting to vine kill) 3243  
Seed Spacing 10"

# 2019 Russet Potato Variety Trial

## Styma Potato Farms

Planting: 6/5/19 Vine Kill: 9/20/19 Harvest: 10/18/19

GDD<sub>40</sub>: 2510

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>					RAW TUBER QUALITY <sup>4</sup> (%)						COMMON SCAB RATING <sup>5</sup>	VINE VIGOR <sup>7</sup>	VINE MATURITY <sup>8</sup>	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR <sup>2</sup>	HH	VD	IBS	BC					
Silverton Russet	439	480	93	3	58	35	4	1.074	0	10	0	0	0.0	3.5	4.0	sl ah, nice appearance	
Reveille Russet	431	507	85	5	52	33	10	1.072	0	0	0	0	0.0	2.5	4.5	medium russet skin, some skinning, knobs in pickouts	
A08433-4sto	415	490	84	10	57	27	6	1.082	0	0	0	0	0.0	3.0	4.5		
<b>Russet Norkotah</b>	<b>395</b>	<b>467</b>	<b>85</b>	<b>7</b>	<b>71</b>	<b>14</b>	<b>8</b>	<b>1.080</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>0.5</b>	<b>4.0</b>	<b>3.0</b>	<b>severe pinkeye, ah</b>	
Castle Russet	392	442	88	10	71	17	2	1.087	60	10	0	30	0.0	3.0	4.0	dark russet skin, mod ah	
Dakota Russet	391	442	89	7	64	25	4	1.082	0	0	0	0	0.0	3.0	3.5	greening, silverton type skin, mod ah	
AOR07781-5	373	469	80	5	57	23	15	1.088	0	10	0	0	0.0	4.5	4.5	misshapen pos, tr ah	
A071012-4BFRUS	360	464	77	14	64	13	9	1.089	0	0	0	0	0.5	3.5	3.5	lots of misshapen pos, some ah	
Vanguard	356	428	84	10	68	16	6	1.069	0	30	0	0	0.0	3.5	2.5	cracked, rough skin	
A07061-6RUS	304	385	79	14	68	11	7	1.073	0	10	0	0	0.5	4.0	4.0	light russet, ah	
River Russet	277	311	89	6	51	38	5	1.072	0	0	0	0	0.5	3.0	4.0	nice netted skin, med skin color	
AO02183-2	264	383	69	24	69	0	7	1.082	0	50	0	0	0.0	3.0	3.5	tubular	
Pacific Russet	240	349	68	25	67	1	7	1.077	0	20	0	0	0.5	3.5	3.0	small, points and pear shapes	
CO10091-1RUS	84	155	55	37	55	0	8	1.074	0	0	0	0	0.0	1.5	4.0	nice skin and appearance, small	
<b>MEAN</b>	<b>337</b>	<b>412</b>	<b>80</b>	<b>13</b>	<b>62</b>	<b>18</b>	<b>7</b>	<b>1.079</b>	<b>5</b>	<b>10</b>	<b>0</b>	<b>3</b>	<b>0.2</b>	<b>3.3</b>	<b>3.8</b>		

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

#### Russets

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

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

Date: 8/27/19  
Rating 1-5  
1: Early (vines completely dead)  
5: Late (vigorous vines, some flowering)

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

Data not replicated

### FIELD DATA

Planting Date 6/5/19  
Vine Kill Date 9/20/19  
Harvest Date 10/18/19  
Days (planting to vine kill) 107  
Days (planting to harvest) 135  
GDD<sub>40</sub> MAWN Station Hawks  
GDD<sub>40</sub> (planting to vine kill) 2510  
Seed Spacing 10"

### <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: 7/10/19  
Rating 1-5  
1: Slow emergence  
5: Early emergence (vigorous vine, some flowering)

# 2019 Russet Potato Variety Trial

## Verbrigghe Potato Farms

Planting: 5/15/19 Vine Kill: 9/7/19 Harvest: 10/9/19  
GDD<sub>40</sub>: 2547

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>					RAW TUBER QUALITY <sup>4</sup> (%)						COMMON SCAB RATING <sup>5</sup>	VINE VIGOR <sup>7</sup>	VINE MATURITY <sup>8</sup>	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR <sup>2</sup>	HH	VD	IBS	BC					
Reveille Russet	579	657	88	6	42	46	6	1.073	0	0	0	0	3.0	2.5	3.5		
A07061-6RUS	511	659	78	21	69	9	1	1.085	0	0	10	0	1.0	4.5	3.5		
<b>Russet Norkotah</b>	<b>469</b>	<b>565</b>	<b>83</b>	<b>10</b>	<b>52</b>	<b>31</b>	<b>7</b>	<b>1.083</b>	<b>50</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3.0</b>	<b>3.5</b>	<b>4.0</b>		
A08433-4sto	444	568	78	7	45	33	15	1.075	0	0	0	0	0.0	2.0	4.0		
River Russet	421	451	93	5	33	60	2	1.078	0	0	0	0	0.0	3.0	4.0		
A071012-4BFRUS	404	506	80	11	52	28	9	1.090	0	10	0	0	0.0	4.0	4.0		
Pacific Russet	344	401	86	14	61	25	0	1.070	0	10	0	0	0.0	3.0	4.0		
AO02183-2	322	447	72	18	72	0	10	1.086	0	0	0	0	0.0	3.5	4.5		
Vanguard	307	382	80	11	45	35	9	1.068	0	0	0	0	0.0	2.5	3.0		
<b>Silverton Russet</b>	<b>304</b>	<b>353</b>	<b>86</b>	<b>9</b>	<b>50</b>	<b>36</b>	<b>5</b>	<b>1.069</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>4.0</b>	<b>4.5</b>		
AOR07781-5	286	416	69	14	33	36	17	1.085	0	0	0	0	0.0	4.5	4.0		
Castle Russet	279	335	83	9	68	15	8	1.080	0	0	0	0	0.0	2.0	4.5		
CO10091-1RUS	244	378	65	35	61	4	0	1.076	0	0	0	0	0.0	1.5	4.0		
<b>MEAN</b>	<b>378</b>	<b>471</b>	<b>80</b>	<b>13</b>	<b>53</b>	<b>28</b>	<b>7</b>	<b>1.078</b>	<b>4</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>0.5</b>	<b>3.1</b>	<b>4.0</b>		

<sup>1</sup>SIZE

**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: 7/10/19  
Rating 1-5  
1: Slow emergence  
5: Early emergence (vigorous vine, some flowering)

<sup>6</sup>VINE MATURITY RATING

Date: 8/28/19  
Rating 1-5  
1: Early (vines completely dead)  
5: Late (vigorous vines, some flowering)

FIELD DATA

Planting Date	5/15/19
Vine Kill Date	9/7/19
Harvest Date	10/9/19
Days (planting to vine kill)	115
Days (planting to harvest)	147
GDD <sub>40</sub> MAWN Station	Escanaba
GDD <sub>40</sub> (planting to vine kill)	2547
Seed Spacing	10"

# 2019 Replicated Russet Variety Trial Walther Norkotah Management Trial

Planting: 4/16/19 Vine Kill: 8/19/19 Harvest: 9/18/19

GDD<sub>40</sub>: 3243

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>610</b>	<b>697</b>	<b>88</b>	<b>10</b>	<b>75</b>	<b>13</b>	<b>2</b>	<b>1.074</b>	<b>10</b>	<b>13</b>	<b>0</b>	<b>3</b>	<b>0.0</b>	<b>4.0</b>	<b>2.8</b>	<b>sevre pinkeye and alligator hide</b>
Vanguard	595	692	86	10	75	11	4	1.063	0	13	0	0	0.3	3.7	3.0	dark skin, heavy russetting
A08433-4sto	545	697	78	10	73	5	12	1.075	7	13	0	0	0.0	3.7	4.0	bottlenecking
Pacific Russet	516	636	81	14	73	8	5	1.061	0	10	0	3	0.3	4.3	1.0	
<b>Silverton Russet</b>	<b>508</b>	<b>627</b>	<b>81</b>	<b>14</b>	<b>68</b>	<b>13</b>	<b>5</b>	<b>1.072</b>	<b>3</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>0.2</b>	<b>3.8</b>	<b>3.3</b>	<b>trace pointed tubers</b>
A071012-4BFRUS	490	614	85	10	11	74	5	1.093	10	7	0	3	1.0	3.7	3.8	alligator hide, knobs, misshapen
Reveille Russet	466	503	93	5	72	21	2	1.066	0	20	3	0	0.0	3.2	1.8	trace alligator hide, blocky type
A07061-6RUS	465	622	87	9	17	70	4	1.071	0	3	3	0	0.2	4.2	4.7	moderate pinkeye, light russet
AOR07781-5	450	618	73	7	64	9	20	1.082	0	10	0	0	0.0	4.5	3.5	bottlenecking, heavy russet, severe alligator hide
Castle Russet	442	546	81	16	79	2	3	1.086	7	3	0	3	0.0	3.0	4.0	misshapen pickouts, nice appearance
Alta Cloud Russet	435	561	78	10	72	6	12	1.078	20	10	3	10	0.0	2.0	3.5	heavy russetting, bottlenecking
AO02183-2	403	553	73	22	72	1	5	1.083	27	23	7	7	0.0	4.0	3.5	moderate alligator hide
CO10091-1RUS	395	527	75	20	72	3	5	1.080	3	17	0	7	0.0	2.2	2.3	alligator hide, bottlenecking, growth crack
River Russet	395	693	56	9	50	6	35	1.068	7	3	13	0	0.0	4.5	3.0	bottlenecking, netted russet skin
<b>MEAN</b>	<b>480</b>	<b>613</b>	<b>80</b>	<b>12</b>	<b>62</b>	<b>17</b>	<b>9</b>	<b>1.075</b>	<b>7</b>	<b>11</b>	<b>2</b>	<b>3</b>	<b>0.1</b>	<b>3.6</b>	<b>3.2</b>	

<sup>1</sup>SIZE

**Russets**

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

<sup>2</sup>SPECIFIC GRAVITY

Three Replicates

<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: 6/3/19
- Rating 1-5
- 1: Slow emergence
- 5: Early emergence (vigorous vine, some flowering)

<sup>6</sup>VINE MATURITY RATING

- Date: 8/12/19
- Rating 1-5
- 1: Early (vines completely dead)
- 5: Late (vigorous vines, some flowering)

**FIELD DATA**

- Planting Date 4/16/19
- Vine Kill Date 8/19/19
- Harvest Date 9/18/19
- Days (planting to vine kill) 125
- Days (planting to harvest) 155
- GDD<sub>40</sub> MAWN Station Mendon
- GDD<sub>40</sub> (planting to vine kill) 3243
- Seed Spacing 10"



# 2019 Replicated Russet Variety Trial Walther Silverton Management Trial

Planting: 4/23/19 Vine Kill: 8/24/19 Harvest: 10/9/19  
GDD<sub>40</sub>: 3299

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				
Reveille Russet	670	739	91	6	59	32	3	1.071	0	10	0	0	0.2	3.0	2.7	tr misshapen, gc, mod skinning
A08433-4sto	596	675	88	6	60	28	6	1.078	20	0	0	0	0.3	2.7	3.3	sl gc, misshapen pos, pointed ends
Vanguard	594	674	88	10	81	7	2	1.071	1	10	1	1	0.0	2.8	2.0	mod bottleneaking, tr ah, nice appearance
Pacific Russet	578	669	86	12	72	14	2	1.068	0	20	0	0	0.3	1.7	1.5	nice skin and type
<b>Russet Norkotah</b>	<b>470</b>	<b>555</b>	<b>84</b>	<b>9</b>	<b>55</b>	<b>29</b>	<b>7</b>	<b>1.073</b>	<b>30</b>	<b>10</b>	<b>0</b>	<b>10</b>	<b>0.3</b>	<b>2.3</b>	<b>2.2</b>	<b>mod ah, nice skin</b>
<b>A071012-4BFRUS</b>	<b>454</b>	<b>541</b>	<b>83</b>	<b>12</b>	<b>74</b>	<b>9</b>	<b>5</b>	<b>1.095</b>	<b>40</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>0.8</b>	<b>2.2</b>	<b>3.2</b>	<b>long narrow tubers, moderate ah</b>
AOR07781-5	435	509	85	11	73	12	4	1.086	20	10	0	0	0.0	2.5	3.2	nice appearance, sl skinning, mod ah
<b>Silverton Russet</b>	<b>405</b>	<b>486</b>	<b>84</b>	<b>10</b>	<b>62</b>	<b>22</b>	<b>6</b>	<b>1.065</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.3</b>	<b>1.8</b>	<b>2.8</b>	<b>gc, pointed pos, bottleneaking</b>
A002183-2	396	493	80	14	69	11	6	1.084	60	30	0	10	0.0	2.3	2.8	gc, deep apical ends
CO10091-1RUS	383	499	77	18	75	2	5	1.080	0	40	20	0	0.0	1.2	2.3	mod ah, uniform, rounded
Castle Russet	379	459	82	14	67	15	4	1.085	60	10	0	0	0.0	2.0	3.0	sl gc, prominent eyes
River Russet	331	524	61	7	31	30	32	1.059	40	10	10	0	0.0	1.3	2.8	very poor shape and appearance
A07061-6RUS	312	401	74	16	61	13	10	1.077	7	10	0	0	0.5	1.3	3.0	poor shape and appearance, light skin
<b>MEAN</b>	<b>462</b>	<b>556</b>	<b>82</b>	<b>11</b>	<b>65</b>	<b>17</b>	<b>7</b>	<b>1.076</b>	<b>21</b>	<b>13</b>	<b>2</b>	<b>2</b>	<b>0.2</b>	<b>2.1</b>	<b>2.7</b>	

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

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

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

Three Replicates

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

**(percent of tubers out of 10)**  
HH: Hollow Heart  
VD: Vascular Discoloration  
IBS: Internal Brown Spot  
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**<sup>4</sup>COMMON SCAB RATING**

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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: 6/3/19  
Rating 1-5  
1: Slow emergence  
5: Early emergence (vigorous vine, some flowering)

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

Date: 8/12/19  
Rating 1-5  
1: Early (vines completely dead)  
5: Late (vigorous vines, some flowering)

**FIELD DATA**

Planting Date 4/23/19  
Vine Kill Date 8/24/19  
Harvest Date 10/9/19  
Days (planting to vine kill) 123  
Days (planting to harvest) 169  
GDD<sub>40</sub> MAWN Station Mendon  
GDD<sub>40</sub> (planting to vine kill) 3299  
Seed Spacing 10"

# Russet Potatoes

## Bulk Planting Test Digs

LINE	CWT/A		PERCENT OF TOTAL <sup>1</sup>					TUBER SET				Total
	US#1	TOTAL	US#1	Bs	As	OV	PO	Bs	As	OV	PO	
<b>Vanguard</b> Walther Farms	510	642	70	18	73	7	3	46	75	4	4	129
<b>Vanguard</b> Lennard Ag. Co.	389	550	71	25	64	7	4	57	57	3	6	123
<b>Vanguard</b> Crawford Farms	332	166	50	50	43	7	0	74	29	2	0	105
<b>Reveille</b> Lennard Ag. Co.	329	466	70	23	59	11	7	42	47	5	8	102
<b>MEAN</b>	<b>390</b>	<b>456</b>	<b>65</b>	<b>29</b>	<b>60</b>	<b>8</b>	<b>4</b>	<b>55</b>	<b>52</b>	<b>4</b>	<b>5</b>	<b>115</b>

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

Russets

Bs: < 4 oz

As: 4 - 10 oz

OV: > 10 oz

PO: Pickouts