

2021 Potato Outreach Program On-Farm Variety Trials

Data Summary: Michigan Russet Variety Trials

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2021 Michigan Statewide Russet Potato Variety Trials Overall Averages - Nine Locations

LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ³ (%)					COMMON SCAB RATING ⁴	VINE VIGOR ⁵	VINE MATURITY ⁶	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	HH	VD	IBS	BC				
AOR10063-2 ^m	527	671	79	10	79	0	11	1.078	0	50	10	0	1.0	4.5		flattened tubers, misshapen pickouts
AF6340-6 ^e	476	579	82	7	58	24	11	1.054	0	0	0	0	1.0	3.0	1.5	inconsistent skin, attractive type
Lakeview russet ^{abcdegimn}	455	524	86	7	68	18	7	1.077	0	1	10	0	0.9	3.1	3.4	larger size profile, flattened oblong type
A08433-4sto ^{abcdgijmn}	446	529	79	13	68	11	8	1.080	20	1	0	0	0.6	3.4	3.3	flat blocky oblong type, slight growth crack
AF6377-13 ^e	436	555	78	10	57	21	12	1.080	0	0	0	20	0.0	3.0	2.5	moderate skinning, dark russet skin
Silverton Russet^{abcdgijmn}	431	508	84	10	66	18	6	1.070	3	6	3	3	0.3	3.6	2.6	slight alligator hide, slight skinning
W13A11229-1RU ^{abcdgijkjmn}	403	510	75	22	73	2	3	1.083	12	7	0	0	0.6	3.1	3.0	lighter russet skin, attractive type
Russet Norkotah^{abcdgijmn}	387	487	78	14	63	15	8	1.071	25	4	0	1	0.4	3.2	2.5	moderate skinning, misshapen pickouts
Reveille Russet ^{abcdgijmn}	382	465	79	10	60	19	11	1.068	0	5	0	0	0.1	2.0	3.4	growth crack in pickouts, attractive skin
Vanguard ^{abcdgijmn}	376	437	84	12	71	12	5	1.063	0	2	0	0	0.1	2.7	2.1	moderate alligator hide, attractive skin
AF5762-8 ^e	372	466	80	11	65	15	9	1.080	0	20	0	0	0.0	2.5	3.5	dark skin, attractive type, blocky shape
Tiger ^{abcdgijm}	366	504	72	22	68	4	6	1.077	13	2	6	1	0.9	3.2	3.1	variable russet skin and tuber shape
A10071-1 ^{abcm}	357	455	78	16	73	5	6	1.068	4	0	2	4	0.4	3.9	2.4	uniform type, darker russet skin, slight prominent eyes
CO10085-1Rus ^{abcdegi}	344	471	73	18	69	4	9	1.084	3	3	3	0	0.9	3.2	3.3	nice appearance, misshapen pickouts, prominent eyes
Goldrush ^{abdfjn}	337	422	75	16	63	12	9	1.071	7	0	0	0	0.0	3.1	2.4	heavy dark russet skin, misshapen pickouts
A09119-4LB ^{abfgm}	323	399	81	11	75	6	8	1.074	0	17	1	0	1.1	3.1	2.3	light russet skin, misshapen pickouts
Western Russet ^{bm}	317	411	77	16	76	1	7	1.077	0	2	0	0	0.5	3.9	2.5	deeper eyes, knobs and points in pickouts
A11737-1LB ^{bm}	316	410	77	17	75	2	6	1.074	0	0	0	0	1.0	3.5	1.0	medium russet skin, knobs and points in pickouts
Burbank SEL ^m	315	516	61	16	61	0	23	1.070	13	10	0	0	0.5	3.8		severe bottlenecks
Ranger Russet ^m	302	464	65	27	65	0	8	1.080	0	20	3	0	1.8	3.0		inconsistent shape, slight sticky stolons
A12114-7 ^{abcdegimn}	278	371	69	24	66	3	7	1.074	1	2	0	0	0.4	3.3	2.3	smaller size profile, longer tubular type
A06030-23 ^m	273	348	79	7	63	16	14	1.069	27	10	0	3	0.5	3.2		severe growth crack in pickouts, nice appearance
COTX08063-2RU ^{ilm}	267	363	73	21	71	2	6	1.080	0	4	1	0	1.0	3.2	1.5	Vanguard type, attractive skin
AC12080-4RU ^{gh}	249	322	78	20	74	4	2	1.065	0	5	0	0	1.0	3.0	2.3	moderate alligator hide, inconsistent type
AC12090-3RU ^{gh}	231	310	75	19	73	2	6	1.064	0	0	0	0	0.5	2.8	2.8	poor appearance, dark russet skin
AF5735-8 ^e	194	401	48	47	48	0	5	1.066	0	0	0	0	1.0	3.0	3.5	smaller long tubular type
CO12378-1RU ^{abh}	169	270	60	29	60	0	11	1.076	37	0	0	0	0.2	3.2	2.3	heavy russet skin, slight growth crack
Libero ^e			15	75	15	0	10	1.067					1.0	3.5	1.0	poor yield and emergence, very few potatoes
MEAN	346	451	73	19	65	8	8	1.073	6	6	1	1	0.6	3.2	2.5	

2021 RUSSET VARIETY TRIAL SITES

- ^a4-L Farms
- ^bElmaple Farms
- ^cHorkey Farms
- ^dJenkins Farms
- ^eKitchen Farms Mini Bulk Trial
- ^fKitchen Farms Strip Trial
- ^gLennard Ag. Co. Strip Trial
- ^hLennard Ag. Co. NFPT Trial
- ⁱLennard Ag. Co. NFPT Add Ons Trial
- ^jStyma Potato Farms
- ^kWalther Farms NFPT Trial
- ^lWalther Farms NFPT Add Ons Trial
- ^mWalther Farms Norkotah Fertility Trial
- ⁿVerbrigghe Farms

¹SIZE

Russets

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

⁵VINE VIGOR RATING

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

²SPECIFIC GRAVITY

Data not replicated

³RAW TUBER QUALITY

(percent of tubers out of 10)

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

⁶VINE MATURITY RATING

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

⁴COMMON 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

2021 Russet Potato Variety Trial

4-L Farms

Planting: 5/12/21 Vine Kill: 10/6/21 Harvest: 11/3/21
GDD₄₀: 4081

LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ³ (%)					COMMON SCAB RATING ⁴	VINE VIGOR ⁵	VINE MATURITY ⁶	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	HH	VD	IBS	BC				
A08433-4sto	521	565	92	7	79	13	1	1.087	10	0	0	0	1.0	3.0	3.0	heavy netted skin
A09119-4LB	271	334	81	9	68	13	10	1.069	0	40	0	0	0.5	2.5	2.0	smooth skin, heat sprouting, sheep nose, pointed tubers
A10071-1	384	463	83	10	76	7	7	1.066	20	0	0	0	0.0	3.5	2.0	heavy netted skin, deep apical eyes
A12114-7	194	280	70	24	68	2	6	1.064	0	0	0	0	1.0	3.5	2.0	knobs, growth cracks, points
CO10085-1RUS	494	604	82	11	73	9	8	1.087	0	0	10	0	2.0	2.5	3.5	less uniform tuber type
CO12378-1RU	233	322	72	21	72	0	7	1.069	80	0	0	0	0.5	3.0	2.0	slight netted skin, less uniform type, slight sheep nose
Goldrush	292	424	69	14	63	6	17	1.072	0	0	0	0	0.0	3.0	2.5	growth crack, moderate netted skin
Lakeview Russet	368	413	88	8	77	11	4	1.076	0	0	30	0	0.5	2.5	3.0	light russet skin, uniform oval type
Reveille Russet	342	409	83	5	51	32	12	1.070	0	0	0	0	1.0	1.5	3.5	dark russet skin, uniform type, severe growth crack
Russet Norkotah	562	638	88	6	49	39	6	1.073	80	0	0	0	0.0	3.0	3.5	severe skinning, dark russet skin, growth cracks
Silverton Russet	458	532	86	8	71	15	6	1.070	10	0	10	0	0.5	3.5	2.5	appealing bright medium russet skin
Tiger	388	507	77	18	71	6	5	1.078	0	0	10	10	1.0	3.0	3.5	light russet skin, uniform type
Vanguard	384	426	90	5	80	10	5	1.063	0	0	0	0	0.0	1.5	2.0	severe skinning, light russet skin
W13A11229-1RUS	373	482	77	19	77	0	4	1.090	0	0	0	0	0.5	2.5	2.5	elongated uniform type
MEAN	376	457	81	12	70	12	7	1.074	14	3	4	1	0.6	2.8	2.7	

¹**SIZE**

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

²**SPECIFIC GRAVITY**

Data not replicated

³**RAW TUBER QUALITY**

(percent of tubers out of 10)
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⁵**VINE VIGOR RATING**

Date: 6/16/21
Rating 1-5
1: Slow emergence
5: Early emergence (vigorous vine, some flowering)

⁶**VINE MATURITY RATING**

Date: 8/24/21
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

FIELD DATA

Planting Date 5/12/21
Vine Kill Date 10/6/21
Harvest Date 11/3/21
Days (planting to vine kill) 147
Days (planting to harvest) 175
GDD₄₀ MAWN Station Kalamazoo
GDD₄₀ (planting to vine kill) 4081
Seed Spacing 10"

2021 Russet Potato Variety Trial

Elmapple Farms

Planting:5/20/21 Vine Kill: 9/12/21 Harvest: 10/5/21
GDD₄₀: 3107

LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ³ (%)					COMMON SCAB RATING ⁴	VINE VIGOR ⁵	VINE MATURITY ⁶	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	HH	VD	IBS	BC				
A10071-1	423	553	76	15	74	2	9	1.074	0	0	0	20	0.0	4.0	2.0	knobs, pinecones, uniform type, prominent eyes
A08433-4sto	406	492	82	15	64	18	3	1.079	30	0	0	0	0.0	3.5	3.0	flat blocky oblong uniform type
Lakeview Russet	338	399	85	14	85	0	1	1.082	0	0	0	0	1.5	2.5	2.5	flattened type, lighter russet skin
A09119-4LB	335	378	89	8	87	2	3	1.075	0	0	0	0	2.0	4.0	2.0	less uniform light russet skin
Vanguard	320	395	81	16	79	2	3	1.061	0	0	0	0	0.0	3.0	1.0	uniform flattened type, slight skinning
A11737-1LB	318	425	74	19	71	3	7	1.076	0	0	0	0	0.5	4.0	1.0	medium russet skin, knobs in pickouts
Reveille Russet	314	426	74	19	70	4	7	1.075	0	0	0	0	0.0	2.5	2.5	knobs, prominent eyes
Tiger	313	467	67	29	62	5	4	1.074	30	0	0	0	0.0	3.0	2.5	moderate skinning, poor appearance
Silverton Russet	311	385	80	15	74	6	5	1.067	0	0	0	0	0.0	3.0	2.5	light russet skin, flat blocky type
Goldrush	299	379	79	18	77	2	3	1.069	0	0	0	0	0.0	3.5	1.5	dark russet skin type, flat oval to oblong type
A12114-7	277	385	72	24	70	2	4	1.077	0	0	0	0	0.5	3.5	1.5	smaller oval to oblong type, medium russet skin
W13A11229-1RUS	269	446	61	36	58	3	3	1.079	20	0	0	0	0.5	3.0	2.5	light skin, long type, slight skinning
Western Russet	267	356	75	19	73	2	6	1.081	0	0	0	0	0.5	3.5	2.5	flat oblong type, knobs and points in pickouts
CO10085-1RUS	247	361	68	25	67	1	7	1.086	0	0	0	0	1.0	3.0	3.0	medium russet skin, less uniform, slight greening
CO12378-1RU	197	333	59	41	58	1	0	1.083	30	0	0	0	0.0	4.0	2.0	smaller type, prominent eyes
Russet Norkotah	159	245	65	21	63	2	14	1.070	0	0	0	0	0.5	2.5	2.0	darker russet skin
MEAN	300	402	74	21	71	3	5	1.075	7	0	0	1	0.4	3.3	2.1	

¹SIZE

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

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Data not replicated

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(percent of tubers out of 10)
HH: Hollow Heart
VD: Vascular Discoloration
IBS: Internal Brown Spot
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5.0: More than 50% of tuber surface area covered in pitted lesions

⁵VINE VIGOR RATING

Date: 7/8/21
Rating 1-5
1: Slow emergence
5: Early emergence (vigorous vine, some flowering)

FIELD DATA

Planting Date 5/20/21
Vine Kill Date 9/12/21
Harvest Date 10/5/21
Days (planting to vine kill) 115
Days (planting to harvest) 138
GDD₄₀ MAWN Station Arlene
GDD₄₀ (planting to vine kill) 3107
Seed Spacing 10"

⁶VINE MATURITY RATING

Date: 8/24/21
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

2021 Russet Potato Variety Trial

Horkey Brothers

Planting: 4/30/21 Vine Kill: 9/16/21 Harvest: 10/21/21

GDD₄₀: 4004

LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ³ (%)					COMMON SCAB RATING ⁴	VINE VIGOR ⁵	VINE MATURITY ⁶	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	HH	VD	IBS	BC				
Silverton Russet	633	749	85	10	61	24	5	1.064	0	40	0	0	0.5	3.5	3.5	medium russet skin, misshapen pickouts
A08433-4sto	606	705	86	10	72	14	4	1.079	0	10	0	0	0.0	3.0	4.0	flat oblong type, variable medium russet skin
Lakeview Russet	539	595	91	7	67	24	2	1.074	0	0	20	0	1.0	3.5	3.0	slight skinning, medium russet skin
Reveille Russet	443	522	85	6	52	33	9	1.063	0	20	0	0	0.0	1.0	3.0	moderate skinning, pointed tubers, growth crack in pickouts
W13A11229-1RUS	425	560	76	23	75	1	1	1.081	0	10	0	0	1.0	3.0	3.0	moderate alligator hide, non uniform type
CO10085-1RUS	420	646	65	18	59	6	17	1.076	0	10	0	0	1.5	3.0	3.0	severe alligator hide, longer non uniform type, bottlenecks
Tiger	396	494	80	18	80	0	2	1.077	0	10	10	0	1.5	3.0	3.0	light russet skin, long type, light yellow flesh
A10071-1	339	438	77	11	63	15	11	1.066	0	0	0	0	0.0	3.5	3.0	grub damage, dark russet skin, prominent eyes
Russet Norkotah	331	428	77	21	66	11	2	1.067	30	0	0	0	0.5	3.0	1.5	slight alligator hide, skinning
A12114-7	314	442	71	26	69	1	4	1.074	0	10	0	0	0.5	3.5	2.0	slight growth crack, medium russet skin, attractive appearance
Vanguard	207	271	77	20	75	1	4	1.054	0	0	0	0	0.0	2.5	3.0	small uniform type
MEAN	423	532	79	15	67	12	6	1.070	3	10	3	0	0.6	3.0	2.9	

¹SIZE

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

²SPECIFIC GRAVITY

Data not replicated

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5.0: More than 50% of tuber surface area covered in pitted lesions

⁵VINE VIGOR RATING

Date: 6/11/21
Rating 1-5
1: Slow emergence
5: Early emergence
(vigorous vine, some flowering)

⁶VINE MATURITY RATING

Date: 8/20/21
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

FIELD DATA

Planting Date 4/30/21
Vine Kill Date 9/16/21
Harvest Date 10/21/21
Days (planting to vine kill) 139
Days (planting to harvest) 174
GDD₄₀ MAWN Station Deerfield
GDD₄₀ (planting to vine kill) 4004
Seed Spacing 10"

2021 Russet Potato Variety Trial

Jenkins Farms

Planting: 5/20/21 Vine Kill: 9/7/21 Harvest: 10/6/21
GDD₄₀: 2994

LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ³ (%)					COMMON SCAB RATING ⁴	VINE VIGOR ⁵	VINE MATURITY ⁶	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	HH	VD	IBS	BC				
Lakeview Russet	659	701	94	5	59	35	1	1.082	0	0	0	0	0.0	2.0	4.0	large size profile, light russet skin
W13A11229-1Rus	638	771	83	13	79	4	4	1.083	40	0	0	0	0.0	3.5	3.0	moderate alligator hide, lighter russet skin, slight skinning
Russet Norkotah	575	755	76	13	61	15	11	1.064	50	0	0	0	0.0	4.0	3.5	severe alligator hide and pinkeye
Vanguard	518	644	80	7	56	24	13	1.062	0	0	0	0	0.0	3.0	2.0	attractive skinning, knobs in pickouts
A08433-4sto	493	686	72	10	56	16	18	1.083	40	0	0	0	0.0	4.0	3.5	flattened oblong type, prominent eyes, less uniform
Goldrush	464	576	81	9	60	21	10	1.068	0	0	0	0	0.0	3.5	2.5	knobs and misshapen pickouts, moderate skinning
Silverton Russet	462	578	80	5	65	15	15	1.077	0	0	10	10	0.0	3.5	2.5	lighter russet skin
CO10085-1RUS	358	427	84	11	78	6	5	1.083	0	0	0	0	0.0	3.0	3.5	attractive skin, slight prominent eyes, tubular
Tiger	342	480	71	27	69	2	2	1.081	50	0	0	0	0.0	3.0	3.0	inconsistent light russet skin, smaller size profile
Reveille Russet	339	497	68	15	60	8	17	1.067	0	0	0	0	0.0	1.5	3.0	trace knobs, medium russet skin
A12114-7	259	424	61	13	56	6	25	1.076	0	0	0	0	0.0	2.5	3.0	knobs and growth crack in pickouts
MEAN	464	594	77	12	64	14	11	1.075	16	0	1	1	0.0	3.0	3.0	

¹SIZE

Russets

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

²SPECIFIC GRAVITY

Data not replicated

³RAW TUBER QUALITY

(percent of tubers out of 10)

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

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⁵VINE VIGOR RATING

Date: 7/6/21
Rating 1-5
1: Slow emergence
5: Early emergence (vigorous vine, some flowering)

⁶VINE MATURITY RATING

Date: 8/24/21
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

FIELD DATA

Planting Date 5/20/21
Vine Kill Date 9/7/21
Harvest Date 10/6/21
Days (planting to vine kill) 110
Days (planting to harvest) 139
GDD₄₀ MAWN Station Arlene
GDD₄₀ (planting to vine kill) 2994
Seed Spacing 10"

2021 Mini Bulk Russet Potato Variety Trial

Kitchen Farms Mini Bulk

Planting: 5/26/21 Vine Kill: 8/25/21 Harvest: 10/7/21
GDD₄₀: 3212

LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ³ (%)					COMMON SCAB RATING ⁴	VINE VIGOR ⁵	VINE MATURITY ⁶	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	HH	VD	IBS	BC				
Lakeview Russet	475	515	92	8	80	12	0	1.079	0	0	0	0	2.5	4.0	3.5	flattened oblong type, light russet skin
A12114-7	327	438	75	24	73	1	2	1.084	0	0	0	0	0.0	3.0	2.5	slight alligator hide, small uniform tuber type
CO10085-1RUS	320	433	74	25	74	0	1	1.086	0	10	0	0	0.0	4.0	4.0	flat to oblong type, attractive appearance
MEAN	374	462	80	19	76	4	1	1.083	0	3	0	0	0.8	3.7	3.3	

¹SIZE

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

²SPECIFIC GRAVITY

Data not replicated

³RAW TUBER QUALITY

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

⁴COMMON 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

⁵VINE VIGOR RATING

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

⁶VINE MATURITY RATING

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

FIELD DATA

Planting Date 5/26/21
Vine Kill Date 8/25/21
Harvest Date 10/7/21
Days (planting to vine kill) 91
Days (planting to harvest) 134
GDD₄₀ MAWN Station Kaskaska
GDD₄₀ (planting to vine kill) 3212
Seed Spacing 10"

2021 Strip Russet Potato Variety Trial

Kitchen Farms

Planting: 5/26/21 Vine Kill: 8/25/21 Harvest: 10/7/21

GDD₄₀: 3212

LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ³ (%)					COMMON SCAB RATING ⁴	VINE VIGOR ⁵	VINE MATURITY ⁶	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	HH	VD	IBS	BC				
A08433-4sto	442	550	80	14	73	7	6	1.077	20	0	0	0	0.5	2.5	3.0	medium russet skin, oval to oblong type, growth cracks in pickouts
Vanguard	416	479	87	12	79	8	1	1.069	0	0	0	0	0.0	3.0	2.5	purple skin reaction, uniform tuber type
W13A11229-1Rus	407	560	73	27	72	1	0	1.085	0	0	0	0	0.5	2.5	3.0	light to medium russet, small tubular type
Russet Norkotah	331	430	77	17	72	5	6	1.078	10	0	0	10	0.0	3.0	2.5	darker russet skin, non uniform type, misshapen pickouts
Silverton Russet	318	375	85	13	77	8	2	1.077	0	0	0	0	0.0	3.5	3.0	moderate pythium
AO9119-4LB	313	402	78	16	76	2	6	1.078	0	10	0	0	1.5	3.0	3.0	growth cracks, lighter russet skin, less uniform type
Reveille Russet	313	427	73	14	65	8	13	1.072	0	0	0	0	0.0	2.5	4.0	growth cracks, prominent eyes
Tiger	289	493	59	36	55	3	5	1.080	10	0	0	0	0.5	3.0	3.5	variable russet skin and tuber shape
Goldrush	241	381	63	31	62	1	6	1.072	30	0	0	0	0.0	2.5	2.5	heavier dark russet skin
MEAN	341	455	75	20	70	5	5	1.076	8	1	0	1	0.3	2.8	3.0	

¹SIZE

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

²SPECIFIC GRAVITY

Data not replicated

³RAW TUBER QUALITY

(percent of tubers out of 10)

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

⁴COMMON SCAB RATING

0.0: Complete absence of surface or pitted lesions
1.0: Presence of surface lesions
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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

⁵VINE VIGOR RATING

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

⁶VINE MATURITY RATING

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

FIELD DATA

Planting Date 5/26/21
Vine Kill Date 8/25/21
Harvest Date 10/7/21
Days (planting to vine kill) 91
Days (planting to harvest) 134
GDD₄₀ MAWN Station Kalkaska
GDD₄₀ (planting to vine kill) 3212
Seed Spacing 10"

2021 Russet Potato Variety Trial

Lennard Ag. Co.

Planting: 5/5/21 Vine Kill: 9/15/21 Harvest: 10/12/21

GDD₄₀: 4634

LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ³ (%)						COMMON SCAB RATING ⁴	VINE VIGOR ⁵	VINE MATURITY ⁶	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	HH	VD	IBS	BC					
Silverton Russet	558	673	83	11	64	19	6	1.059	0	10	0	10	0.5	3.5	2.5	slight alligator hide and skinning	
Reveille Russet	508	655	77	7	44	33	16	1.058	0	10	0	0	0.0	1.5	4.0	knobs in pickouts	
AF6340-6	476	579	82	7	58	24	11	1.054	0	0	0	0	1.0	3.0	1.5	inconsistent skin, attractive shape	
Tiger	469	605	77	13	64	13	10	1.068	0	0	0	0	1.0	3.5	3.0	light inconsistent skin	
AF6377-13	436	555	78	10	57	21	12	1.080	0	0	0	20	0.0	3.0	2.5	moderate skinning, dark russet skin	
W13A11229-1RUS	426	572	75	13	73	2	12	1.079	0	10	0	0	1.0	3.0	2.5	tubular type, inconsistent skin	
AF5762-8	372	466	80	11	65	15	9	1.080	0	20	0	0	0.0	2.5	3.5	dark skin, attractive blocky type, misshapen pickouts	
Russet Norkotah	365	538	68	12	58	10	20	1.068	0	10	0	0	0.5	3.0	2.5	non uniform skin and type	
CO10085-1RUS	362	514	70	14	63	7	16	1.077	20	0	10	0	1.0	2.5	3.0	uniform type, slight skinning	
A09119-4LB	357	464	77	11	64	13	12	1.072	0	20	0	0	0.5	2.5	2.0	light skin, growth crack in pickouts	
AF6298-2	347	418	83	12	74	9	5	1.081	10	0	10	0	1.5	2.0	3.0	non uniform type	
Vanguard	333	423	79	16	75	4	5	1.055	0	0	0	0	1.0	2.5	3.0	light russet skin	
AC12080-4RU	288	371	78	21	76	2	1	1.064	0	0	0	0	1.0	3.0	2.0	slight alligator hide	
Lakeview Russet	270	543	50	8	36	14	42	1.063	0	0	20	0	1.5	2.5	3.0	moderate pythium, lt inconsistent skin	
AF6296-3	239	431	56	16	52	4	28	1.072	0	0	10	0	2.0	3.0	3.0	light skin, misshapen tubers	
CO13003-1RU	239	339	70	24	65	5	6	1.063	10	0	0	30	0.0	3.0	2.5	smaller type, inconsistent shape and skin	
A10071-1	223	345	64	34	63	1	2	1.068	0	0	0	0	1.5	3.5	2.5	some plot yield is missing, non uniform skin and shape	
AC12090-3RU	214	280	76	20	75	1	4	1.064	0	0	0	0	0.5	2.5	1.5	skinning, pink pigmentation, inconsistent skin and shape	
A08433-4sto	201	347	58	14	50	8	28	1.071	0	0	0	0	1.0	2.5	2.5	bottlenecking, misshapen tubers, slight growth crack	
AF5735-8	194	401	48	47	48	0	5	1.066	0	0	0	0	1.0	3.0	3.5	smaller long tubular tubers	
A12114-7	175	318	56	37	54	2	7	1.063	0	0	0	0	0.0	3.0	2.0	dark russet skin, small tubers, long tubular type	
Libero	5	35	15	75	15	0	10	1.067					1.0	3.5	1.0	poor yield and emergence, very few potatoes	
MEAN	321	449	68	20	59	9	12	1.068	2	4	2	3	0.8	3	3		

¹SIZE

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

²SPECIFIC GRAVITY

Data not replicated

³RAW TUBER QUALITY

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

⁴COMMON 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

⁵VINE VIGOR RATING

Date: 6/9/21
Rating 1-5
1: Slow emergence
5: Early emergence (vigorous vine, some flowering)

FIELD DATA

Planting Date 5/5/21
Vine Kill Date 9/15/21
Harvest Date 10/12/21
Days (planting to vine kill) 133
Days (planting to harvest) 160
GDD₄₀ MAWN Station Constantine
GDD₄₀ (planting to vine kill) 4634
Seed Spacing 10"

⁶VINE MATURITY RATING

Date: 8/23/21
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

2021 Russet Potato Variety Trial

Lennard Ag. Co. NFPT and Added Lines

Planting: 5/5/21 Vine Kill: 9/15/21 Harvest: 10/12/21

GDD₄₀: 4634

LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ³ (%)					COMMON SCAB RATING ⁴	VINE VIGOR ⁵	VINE MATURITY ⁶	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	HH	VD	IBS	BC				
ND1413YB-1rus	367	487	75	6	30	45	19	1.072	0	30	0	0	1.0	3.0	3.5	growth crack in pickouts
AF5736-16	319	402	79	16	69	10	5	1.081	10	0	0	0	1.0	2.5	4.0	slightly flattened tubers
AF5521-1	286	325	88	4	47	41	8	1.070	0	0	0	10	0.5	2.5	3.0	small set, attractive blocky oblong tubers
ND1412Y-5Russ	268	336	80	10	66	14	10	1.068	0	0	0	0	2.0	3.0	3.5	inconsistent light skin
ND14130C-4Russ	260	422	62	12	53	9	26	1.067	0	0	0	0	1.0	2.5	2.0	inconsistent skin, misshapen pickouts
CO11009-3RU	254	365	69	21	68	1	10	1.079	20	0	10	0	1.0	3.5	3.5	inconsistent skin
AC12090-3RU	249	340	73	20	70	3	7	1.064	0	0	0	0	0.5	3.0	4.0	long type, dark russet skin
ND12241YB-2Russ	233	308	75	9	65	10	16	1.077	0	0	10	0	2.5	3.0	3.5	inconsistent shape, medium russet skin
AC12080-4RU	211	272	77	21	71	6	2	1.066	0	10	0	0	1.0	3.0	2.5	light skin, inconsistent type
COAF11018-10	208	246	84	10	67	17	6	1.070	0	0	0	0	0.5	1.0	2.0	darker russet skin
AF5750-16	201	346	58	23	57	1	19	1.066	0	0	0	0	2.0	2.5	2.0	misshapen pickouts
CO13003-1RU	195	254	77	15	71	6	8	1.064	0	0	10	20	0.0	3.0	2.0	dark russet skin
ND14110B-1Russ	115	305	38	32	38	0	30	1.063	10	0	0	0	2.0	2.0	3.0	lots of growth crack, non uniform type
CO12378-1RU	78	156	50	24	50	0	26	1.077	0	0	0	0	0.0	2.5	3.0	severe alligator hide, dark heavy russet skin
AAF11345-1	389	405	96	3	43	53	1	1.078	0	10	0	0	2.0	1.5	4.0	pink eyes, attractive oblong blocky tubers
COTX08063-2RU	223	318	70	16	64	6	14	1.087	0	0	0	0	2.0	2.5	1.5	inconsistent size and shape
MEAN	232	326	70	16	59	12	14	1.070	3	3	2	2	1.1	2.6	3.0	

¹SIZE

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

²SPECIFIC GRAVITY

Data not replicated

³RAW TUBER QUALITY

(percent of tubers out of 10)

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

⁴COMMON 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
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4.0: Pitted lesions severe on tubers
5.0: More than 50% of tuber surface area covered in pitted lesions

⁵VINE VIGOR RATING

Date: 6/9/21
Rating 1-5
1: Slow emergence
5: Early emergence (vigorous vine, some flowering)

FIELD DATA

Planting Date 5/5/21
Vine Kill Date 9/15/21
Harvest Date 10/12/21
Days (planting to vine kill) 133
Days (planting to harvest) 160
GDD₄₀ MAWN Station Constantine
GDD₄₀ (planting to vine kill) 4634
Seed Spacing 10"

⁶VINE MATURITY RATING

Date: 8/23/21
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

Varieties below dashed line are added lines

2021 Russet Potato Variety Trial

Styma Potato Farms

Planting: 5/21/21 Vine Kill: 8/31/21 Harvest: 9/27/21

GDD₄₀: 2773

LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ³ (%)					COMMON SCAB RATING ⁴	VINE VIGOR ⁵	VINE MATURITY ⁶	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	HH	VD	IBS	BC				
A08433-4sto	601	687	88	10	75	13	3	1.089	70	0	0	0	2.0	5.0	3.5	flat blocky type, slight skinning
Lakeview Russet	521	562	93	5	73	20	2	1.083	0	0	0	0	0.5	4.5	4.0	flattened long russet, light russet skin
Vanguard	482	578	83	8	56	27	8	1.074	0	0	0	0	0.0	4.0	2.0	knobs in pickouts
Russet Norkotah	435	555	78	12	65	13	10	1.077	40	0	0	0	2.0	4.0	2.5	misshapen pickouts, slight skinning
Silverton Russet	425	488	87	5	49	38	8	1.079	20	0	0	0	0.5	4.5	2.5	medium netted skin, nice appearance
Tiger	382	528	72	20	68	4	8	1.085	10	0	0	0	1.5	4.0	3.0	nice type, inconsistent russet skin
Goldrush	362	479	76	11	56	19	14	1.078	10	0	0	0	0.0	3.5	2.5	dark russet skin type, uniform
W13A11229-1RUS	312	436	72	28	68	4	0	1.093	30	0	0	0	0.5	4.0	2.5	uniform skin type, light russet skin, nice appearance
Reveille Russet	300	362	83	12	69	14	5	1.074	0	0	0	0	0.0	3.0	3.0	nice skin, growth crack, prominent eyes
CO10085-1RUS	208	315	66	28	66	0	6	1.094	0	0	0	0	0.5	4.5	3.0	uniform russet type
A12114-7	192	327	59	29	51	7	12	1.081	10	0	0	0	0.5	4.5	2.0	slight alligator hide, moderate growth crack
MEAN	384	483	78	15	63	15	7	1.082	17	0	0	0	0.7	4.1	2.8	

¹SIZE

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

²SPECIFIC GRAVITY

Data not replicated

³RAW TUBER QUALITY

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

⁴COMMON SCAB RATING

0.0: Complete absence of surface or pitted lesions
1.0: Presence of surface lesions
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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

⁵VINE VIGOR RATING

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

⁶VINE MATURITY RATING

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

FIELD DATA

Planting Date 5/21/21
Vine Kill Date 8/31/21
Harvest Date 9/27/21
Days (planting to vine kill) 102
Days (planting to harvest) 129
GDD₄₀ MAWN Station Hawks
GDD₄₀ (planting to vine kill) 2773
Seed Spacing 10"

2021 Russet Potato Variety Trial Walther Farms NFPT and Added Lines

Planting: 4/22/21 Vine Kill: 8/18/21 Harvest: 9/16/21
GDD₄₀: 3210

LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ³ (%)					COMMON SCAB RATING ⁴	VINE VIGOR ⁵	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	HH	VD	IBS	BC			
AF6384-2	680	718	95	3	46	49	2	1.072	10	0	0	0	1.5	3.5	light skin type, blocky, oblong
A15094-11	662	816	82	10	70	12	8	1.069	0	0	0	0	2.0	4.0	tubular appearance, done
A12327-5VR	632	690	92	3	47	45	5	1.073	10	10	10	0	0.5	4.0	nice blocky type but less uniform
A11887-5adg	606	696	87	9	68	19	4	1.081	0	40	0	0	1.5	4.0	lighter russet skin, pointed tubers
AF5707-1	603	726	83	11	78	5	6	1.083	10	0	0	0	2.0	3.5	nice shape and type but too much scab
A16117-4	599	692	87	5	58	29	8	1.088	10	0	0	0	1.5	4.0	darker russet skin, points
A15190-8CR	594	683	87	4	54	33	9	1.079	0	20	0	0	0.0	4.0	large tubers, points, prominent eyes
AOR10071-8	576	697	83	15	72	11	2	1.085	0	60	0	0	1.0		nice skin finish, blocky, sticky stolons, trace heat knobs
AOR15166-2	560	594	95	4	84	11	1	1.082	0	10	0	0	1.0		light russet skin, attractive shape and appearance
AF6338-6	554	663	84	8	76	8	8	1.081	20	20	10	0	0.5	3.5	lots of points and pears, medium russet skin
AOR10129-1	549	609	90	8	70	20	2	1.073	30	0	0	0	2.5		anthocyanins on skin, poor skin finish
A09136-9LB	547	630	87	8	63	24	5	1.082	50	0	0	0	2.5	5.0	non uniform type, misshapen pickouts
AOR10093-1	539	658	82	9	51	31	9	1.081	0	20	0	0	2.5		inconsistent shape, severe knobs in pickouts
A12305-2adg	534	677	79	3	26	53	18	1.073	10	0	0	0	2.0	3.5	poor appearance
AAF10596-1	529	642	82	8	61	21	10	1.091	20	20	0	0	2.5	4.0	deeper eyes, nice skin but poor appearance
A15094-13	524	645	81	9	69	12	10	1.069	30	10	0	0	0.5	3.0	light russet, misshapen tubers
A15041-13	521	570	92	2	33	59	6	1.074	30	0	0	0	0.0	3.0	large clunky oblong tubers, darker skin
AAF11345-1	503	543	92	7	68	24	1	1.084	0	40	10	0	1.5	1.5	blush appearance, heavy eyebrows, nice shape, nice skin
A13036-1	482	520	93	4	66	27	3	1.084	10	20	0	10	0.0	4.5	nice skin, lots of deep eyes
AF5736-16	474	535	88	9	77	11	3	1.086	0	0	0	0	0.0	3.5	nice type, flat oblong to long type
A12303-4sto	468	596	79	15	69	10	6	1.088	10	0	0	0	1.0	3.0	nice blocky type, some misshapen pickouts
A15008-2TE	451	542	83	13	76	7	4	1.071	20	30	20	10	0.0	4.0	nice skin, less uniform tubers
A15099-10PMTV	444	520	86	8	66	20	6	1.075	0	50	0	0	1.5	4.0	nice appearance but moderate scab
AOR12069-3	444	531	83	16	60	23	1	1.074	10	10	0	0	2.5		light skin, misshapen pickiouts, trace sticky stolons
AFA5661-8	441	460	95	5	66	29	0	1.075	0	20	0	0	1.0	2.5	sticky stolons, non uniform russetting, nice type, blocky, oblong
AF6086-7	440	522	84	11	68	16	5	1.081	0	30	0	0	2.0	3.0	decent appearance, heavy eyebrows
AF6377-12	424	450	94	4	55	39	2	1.071	40	0	0	0	0.0	3.0	dark russet skin, nice shape
W13A11229-1RUS	423	512	83	16	72	11	1	1.075	10	40	0	0	1.0	3.5	nice appearance, lighter russet skin
A14057-4adg	416	494	84	5	66	18	11	1.073	0	0	0	0	1.0	3.5	slight sticky stolons, points, variable russet skin
A13074-1TE	415	506	82	9	59	23	9	1.088	0	0	0	0	0.0	4.5	blocky oblong type
AF6075-8	414	620	67	4	52	15	29	1.066	10	0	0	0	0.5	3.5	lots of bottlenecks, long to tubular type
A15028-16	410	495	83	6	74	9	11	1.088	40	0	0	10	1.0	3.0	medium russet skin, deep eyes, less uniform tubers
A09086-1LB	391	542	72	24	70	2	4	1.077	0	0	0	0	2.5	4.5	lighter russet skin
COA15494-8	377	461	82	12	49	33	6	1.068	0	0	0	10	0.5	4.0	nice dark russet skin type, flat blocky oblong type
AF6110-3	365	432	85	6	50	35	9	1.075	20	10	0	10	1.5	3.0	non uniform type, points and knobs
COAF13066-1	358	481	74	10	68	6	16	1.083	10	20	0	0	0.5	2.5	poor shape, sticky stolons, knobs
AF5521-1	354	392	91	4	49	42	5	1.087	10	30	20	0	2.0	3.0	nice shape, inconsistent skin
A14026-16adg	346	590	59	22	55	4	19	1.086	0	0	50	0	1.0	3.0	lots of bottlenecks, points, poor shape, light skin
AF5750-16	329	531	62	26	60	2	12	1.073	0	0	0	0	2.0	3.0	tubular type, bottlenecking, points
WAF14006-6	327	430	75	6	28	47	19	1.067	20	20	20	10	0.0	3.5	severe alligator hide, big tubers with growth crack
A10020-3sto	323	417	77	16	77	0	7	1.073	0	0	0	0	0.0	2.0	prominent eyes, dark russet skin, flattened shape
AOR11027-4	309	377	82	14	72	10	4	1.074	0	0	0	0	1.5		lighter russet skin

LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ³ (%)					COMMON SCAB RATING ⁴	VINE VIGOR ⁵	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	HH	VD	IBS	BC			
A13085-2	302	365	83	13	64	19	4	1.066	0	0	0	0	0.5	4.0	nice skin, fairly uniform, slightly flattened type
COAF11018-10	265	325	82	15	70	12	3	1.069	0	0	0	0	0.5	2.0	longer uniform type, medium russet skin, nice appearance
A15042-1	262	373	71	18	64	7	11	1.083	0	0	0	0	0.5	3.0	oblong type, poor skin finish
A15258-1	244	321	76	17	59	17	7	1.062	0	0	0	0	0.5	3.5	longer type
A07914-4CR	232	360	65	11	60	5	24	1.062	40	0	0	0	1.0	5.0	tubular non uniform type, inconsistent skin
A12304-1sto	224	332	68	32	56	12	0	1.070	0	0	10	0	0.0	3.0	medium russet skin type, attractive
A10635-2VR	72	345	21	64	21	0	15	1.075	0	30	10	0	1.0	4.0	small size profile, pointed tubers
A12314-1sto	44	85	52	26	52	0	22	1.070	0	0	0	0	0.5	2.0	skin cracking, few tubers
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NDAF1415Y-2	575	612	94	4	45	49	2	1.073	20	0	0	0	2.0	3.0	oblong blocky type, slight alligator hide
AF6441-3	536	600	89	7	59	30	4	1.089	10	0	0	0	2.0	4.0	moderate skinning, acceptable appearance
AF6377-10	518	565	92	4	33	59	4	1.072	10	0	0	0	0.5	3.0	nice blocky type, good appearance, almost too big
AAF15010-1	463	591	79	15	73	6	6	1.100	10	10	0	0	0.5	4.0	nice uniform appearance, medium to dark russet skin
NDAF13242B-1	458	550	83	10	83	0	7	1.087	60	0	0	0	0.0	3.0	flat blocky tuber type
NDTX14247CAB-1W	427	549	77	23	73	4	0	1.069	0	10	0	0	0.5	4.5	nice appearance
NDAF13242B-3	406	499	82	16	75	7	2	1.091	0	0	0	0	1.0	3.0	attractive shape
NDTX1482YB-1W	359	548	66	30	52	14	4	1.083	0	0	0	0	1.5	4.0	less uniform shape
AF6370-1	268	379	71	21	60	11	8	1.067	0	0	0	0	0.0	2.0	flat blocky type, dark russet skin, nice appearance
ATX13287-1Ru	268	307	87	10	65	22	3	1.089	0	30	0	0	0.5	3.0	
Russet Burbank	239	720	33	15	31	2	52	1.074	0	0	0	0	0.5	3.0	
COTX08063-2Ru	228	344	67	32	60	7	1	1.061	0	0	0	0	0.0	3.0	nice appearance and skin, smaller type
COTX10080-2Ru	202	256	79	14	55	24	7	1.078	0	50	30	0	1.5	3.5	average appearance, moderate alligator hide
AF6075-9	190	240	79	8	47	32	13	1.055	0	0	0	0	0.0	3.0	lots of pears and points, nice skin, poor shape
ATX10007-1Ru	145	199	73	27	70	3	0	1.071	0	0	0	0	1.5	2.0	not uniform
AAF12147-6	139	273	51	42	46	5	7	1.080	0	0	0	0	0.0	3.5	lenticel scarring, less uniform, light russet skin
MEAN	409	510	79	13	60	19	8	1.077	9	10	3	1	1.0	3.4	

¹SIZE

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

²SPECIFIC GRAVITY

Data not replicated

³RAW TUBER QUALITY

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

⁴COMMON SCAB RATING

0.0: Complete absence of surface or pitted lesions
1.0: Presence of surface lesions
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4.0: Pitted lesions severe on tubers
5.0: More than 50% of tuber surface area covered in pitted lesions

⁵VINE VIGOR RATING

Date: 6/9/21
Rating 1-5
1: Slow emergence
5: Early emergence (vigorous vine, some flowering)

FIELD DATA

Planting Date 4/22/21
Vine Kill Date 8/18/21
Harvest Date 9/16/21
Days (planting to vine kill) 118
Days (planting to harvest) 147
GDD₄₀ MAWN Station Constantine
GDD₄₀ (planting to vine kill) 3210
Seed Spacing 10"

Varieties below the dashed line are added lines

2021 Replicated Russet Potato Variety Trial

Walther Farms Norkotah Fertility Trial

Planting: 4/22/21 Vine Kill: 8/18/21 Harvest: 9/16/21
GDD₄₀: 3210

LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ³ (%)					COMMON SCAB RATING ⁴	VINE VIGOR ⁵	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	HH	VD	IBS	BC			
Lakeview Russet	533	610	87	5	58	29	8	1.070	0	13	23	0	1.0	4.3	lots of rot and heat sprouting, light russet skin
AOR10063-2	527	671	78	11	67	11	11	1.078	0	50	10	0	1.0	4.5	misshapen pickouts, flattened type
A12114-7	456	522	87	11	57	30	2	1.074	0	10	0	0	0.7	3.3	attractive blocky tuber type, uniform skin
Reveille Russet	425	504	84	7	52	32	9	1.060	0	13	0	0	0.2	2.7	nice dark russet skin type, knobs and prominent eyes
A08433-4sto	423	495	86	11	72	14	3	1.068	13	3	0	3	0.7	3.7	flat blocky type, larger tubers
A10071-1	417	476	87	11	73	14	2	1.066	0	0	10	0	0.3	5.0	lots of rot, nice appearance and skin, slight prominent eyes
Silverton Russet	401	512	78	16	57	21	6	1.059	0	0	7	7	0.5	4.2	significant rot, trace sticky stolons, prominent eyes
Russet Norkotah	388	474	82	13	64	18	5	1.067	13	17	0	0	0.2	3.3	dark russet skin, trace growth crack, misshapen tubers
W13A11229-1RUS	371	482	77	19	72	5	4	1.078	17	10	0	0	1.0	3.0	significant rot, trace sticky stolons, blocky type
Western Russet	367	466	79	12	69	10	9	1.074	0	3	0	0	0.5	4.3	nice russet skin but significant rot, deeper eyes
Tiger	350	456	77	11	65	12	12	1.074	0	7	30	0	1.3	3.3	inconsistent shape, moderate rot
COTX08063-2RU	349	428	82	16	68	14	2	1.092	0	13	3	0	1.0	4.2	thin skin, trace growth cracks and misshapen tubers
A09119-4LB	341	420	81	10	58	23	9	1.075	0	17	3	0	1.2	3.7	non uniform type, misshapen pickouts
Vanguard	333	373	89	8	68	21	3	1.057	0	20	0	0	0.3	2.7	many misshapen tubers in pickouts, moderate rot, attractive skin
Russet Burbank SEL	315	516	61	16	59	2	23	1.070	13	10	0	0	0.5	3.8	severe bottlenecks, rot
A11737-1LB	313	395	79	16	70	9	5	1.073	0	0	0	0	1.5	3.0	missing some tubers so artificially low yield, darker skin, points in pickouts
Ranger Russet	302	464	65	27	64	1	8	1.080	0	20	3	0	1.8	3.0	inconsistent shape, misshapen tubers, slight sticky stolons
A06030-23	273	348	79	7	63	16	14	1.069	27	10	0	3	0.5	3.2	severe growth crack in pickouts, nice appearance
MEAN	382	478	80	13	64	16	8	1.071	5	12	5	1	0.8	3.6	

¹SIZE

Russets
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OV: > 10 oz
PO: Pickouts

²SPECIFIC GRAVITY

Data is replicated

³RAW TUBER QUALITY

(percent of tubers out of 10)
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⁵VINE VIGOR RATING

Date: 6/9/21
Rating 1-5
1: Slow emergence
5: Early emergence (vigorous vine, some flowering)

FIELD DATA

Planting Date 4/22/21
Vine Kill Date 8/18/21
Harvest Date 9/16/21
Days (planting to vine kill) 118
Days (planting to harvest) 147
GDD₄₀ MAWN Station Constantine
GDD₄₀ (planting to vine kill) 3210
Seed Spacing 10"

2021 Russet Potato Variety Trial

Verbrigghe Potato Farms

Planting: 6/2/21 Vine Kill: 9/1/21 Harvest: 10/4/21

GDD₄₀: 2424

LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ³ (%)					COMMON SCAB RATING ⁴	VINE VIGOR ⁵	VINE MATURITY ⁶	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	HH	VD	IBS	BC				
Reveille Russet	455	383	84	7	46	38	9	1.070	0	0	0	0	0.0	2.0	4.0	
Lakeview	396	379	96	4	48	48	0	1.082	0	0	0	0	0.0	2.5	4.0	
Vanguard	392	345	88	7	54	34	5	1.069	0	0	0	0	0.0	2.0	1.5	
W13A11228-1Rus	389	281	72	25	70	2	3	1.085	0	0	0	0	0.0	3.0	5.0	
A12114-7	386	276	72	27	67	5	1	1.077	0	0	0	0	0.0	3.0	3.0	
Goldrush	366	293	81	17	61	20	2	1.070	0	0	0	0	0.0	2.5	3.0	
Russet Norkotah	337	317	94	6	51	43	0	1.078	0	10	0	0	0.0	3.0	2.0	
A08433-4sto	321	230	72	26	59	13	2	1.090	0	0	0	0	0.0	3.5	4.0	Non uniform type, deep eyes
Silverton	312	284	91	8	52	39	1	1.083	0	0	0	0	0.0	3.0	2.0	
MEAN	373	310	83	14	56	27	3	1.078	0	1	0	0	0.0	2.7	3.2	

¹SIZE

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

²SPECIFIC GRAVITY

Data not replicated

³RAW TUBER QUALITY

(percent of tubers out of 10)
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4.0: Pitted lesions severe on tubers
5.0: More than 50% of tuber surface area covered in pitted lesions

⁵VINE VIGOR RATING

Date: 7/9/21
Rating 1-5
1: Slow emergence
5: Early emergence

⁶VINE MATURITY RATING

Date: 8/31/21
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

FIELD DATA

Planting Date 6/2/2021
Vine Kill Date 9/1/2021
Harvest Date 10/4/2021
Days (planting to vine kill) 91
Days (planting to harvest) 124
GDD₄₀ MAWN Station Escanaba
GDD₄₀ (planting to vine kill) 2424
Seed Spacing 10"