

2018 Potato Outreach Program On-Farm Variety Trials

Data Summary: Michigan Russet Variety Trials

Table of Contents

1.....	2018 Statewide Russet Potato Line Summary
2.....	2018 Russet Variety Trial; 4-L Farms, Allegan County, MI
3.....	2018 Russet Variety Trial; Crawford Farms, Montcalm County, MI
4.....	2018 Russet Variety Trial; Elmapple Farms, Kalkaska County, MI
5.....	2018 Russet Variety Trial; Horkey Brothers, Monroe County, MI
6.....	2018 Russet Variety Trial; Jenkins Farms, Kalkaska County, MI
7.....	2018 Russet Variety Trial; Kitchen Farms, Antrim County, MI
8.....	2018 Russet Variety Trial; Lennard Ag. Co., St. Joseph County, MI
9.....	2018 Russet Variety Trial; Verbrigghe Potato Farms, Delta County, MI
10-11.....	2018 NFPT Trial and Added Lines; Walther Farms, St. Joseph County, MI
12-13..	2018 Russet Norkotah Mgmt. Trial; Walther Farms, St. Joseph County, MI
14.....	2018 Silverton Russet Mgmt. Trial; Walther Farms, St. Joseph County, MI
15.....	2018 Russet Variety Trial; Wilk Farms, Presque Isle County, MI
16.....	2018 Bulk Russet Test Digs, Multiple Locations, MI

2018 Michigan Statewide Russet Potato Variety Trials Overall Averages- Twelve Locations

LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ⁴ (%)					COMMON SCAB RATING ⁵	VINE VIGOR ⁷	VINE MATURITY ⁸	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	HH	VD	IBS	BC				
Castle Russet ^l	519	608	85	8	85	0	7	1.072	75	5	0	0	0.0	1.8	4.2	mod alligator hide, misshapen POs
A08433-4VRRUS ^{cfghijkl}	499	614	82	7	75	7	11	1.075	7	10	1	0	0.2	3.0	4.3	sl alligator hide, misshapen and points in POs
Reveille Russet ^{bcdefghijkl}	460	546	84	7	80	4	9	1.067	2	3	3	0	0.3	2.3	3.1	tr alligator hide, longer blocky tuber shape
Caribou Russet ^{bcdefghijkl}	459	558	83	5	78	5	12	1.073	3	10	22	1	0.2	3.4	3.5	sl alligator hide, GC in POs, tr alligator hide
A07061-6RUS ^{bcdefghijkl}	440	544	81	13	79	2	6	1.073	0	6	1	0	0.9	3.1	3.8	sl alligator hide, knobs and misshapen in POs
Mountain Gem ^{bcefhil}	440	530	83	7	77	6	10	1.076	24	3	0	1	0.0	2.8	4.1	mod alligator hide, deep apical eyes
W10612-8RUS ^{cfj}	431	552	86	7	86	0	7	1.072	23	4	17	0	1.0	2.8	2.9	mod alligator hide, misshapen POs
CO10091-1RUS ^{ej}	430	511	84	10	84	0	6	1.074	14	2	4	0	0.6	1.8	3.1	mod alligator hide, GC and misshapen in POs
A071012-4BFRUS ^{cfjgk}	410	524	76	8	76	0	16	1.085	21	1	1	1	0.5	3.1	4.0	medium to heavy russeting, skin flaking
Russet Norkotah^{abcdehijkl}	409	516	77	11	74	3	12	1.071	18	18	1	0	0.1	3.1	2.9	mod alligator hide, GC and misshapen in POs
CW08071-2RUS ^{abcdehijkl}	407	478	84	11	81	3	5	1.074	6	9	4	0	0.5	3.1	3.0	mod alligator hide, blocky shape, oval tuber type
Silverton Russet^{abcdehijkl}	391	472	83	10	80	3	7	1.067	8	7	11	1	0.3	3.3	3.7	attractive uniform tuber type and appearance
WAF10612-1RUS ^{cijk}	389	518	72	14	72	0	14	1.073	9	7	1	0	2.3	2.9	3.5	mod alligator hide, misshapen and knobs in POs
Vanguard ^{abcdehijkl}	387	467	83	8	81	2	9	1.064	0	6	0	0	0.1	2.9	2.4	medium russet skin type, uniform tuber profile
AF5179-4RUS ^{cfjgk}	368	531	71	8	70	1	21	1.080	3	2	12	0	1.1	2.4	3.5	non uniform tuber type, poor tuber shape
A06021-1TRUS ^{cfghijkl}	366	464	78	10	75	3	12	1.078	11	8	3	0	0.5	2.4	3.0	mod alligator hide, misshapen and GC in POs
AF5091-8RUS ^{abcdehijkl}	365	451	81	9	77	4	10	1.064	2	9	6	0	0.5	2.9	2.9	heavy eyebrows, mod skinning, mod alligator hide
AF5406-7RUS ^{befghijkl}	351	497	71	9	62	9	20	1.074	8	4	3	0	0.2	2.9	3.6	sl alligator hide, lighter russet skin type
W10594-16RUS ^{cfghijkl}	351	438	76	16	72	4	8	1.076	5	2	2	0	0.5	3.1	3.1	light russet skin type, mod skinning
CO05068-1RUS ^{abcdehijkl}	348	498	70	18	68	2	12	1.087	23	12	11	1	0.2	3.2	3.8	mod skinning, lighter russet skin, sl alligator hide
CO10087-4RUS ^j	293	411	71	15	71	0	14	1.075	49	3	3	0	0.3	2.2	2.6	heavy russet skin type, GC in POs
AF5312-1RUS ^{bcdehijkl}	285	418	68	18	67	1	14	1.070	8	1	2	0	0.3	3.0	2.5	heavy russet skin type, misshapen and GC in POs
Goldrush Russet^{cefi}	271	428	63	16	62	1	21	1.065	5	10	0	0	0.0	2.6	2.6	misshapen and GC in POs, heavy russet skin
CO09036-2RUS ^{abcdehijkl}	234	418	56	30	55	1	14	1.073	18	4	0	0	0.2	2.9	3.7	bottlenecking in POs, smaller tuber size profile
CO07049-1RUS ^{bcdehijkl}	198	381	51	41	50	1	8	1.073	2	4	1	0	0.1	2.7	2.9	smaller size profile, medium russet skin, sl alligator hide
CO07015-4RUS ^{abcdehijkl}	194	332	55	39	54	1	6	1.072	1	8	4	0	0.0	3.0	2.2	heavy russet skin, sl skinning, mod alligator hide
MEAN	373	489	75	14	73	2	11	1.073	13	6	4	0	0.4	2.8	3.3	

2018 RUSSET VARIETY TRIAL SITES

- ^a4-L Farms, Allegan County
- ^bCrawford Farms, Montcalm County
- ^cElmapple Farms, Kalkaska County
- ^dHorkey Brothers, Monroe County
- ^eJenkins Farms, Kalkaska County
- ^fKitchen Farms, Antrim County
- ^gLennard Ag. Company, St. Joseph County
- ^hVerbrigghe Potato Farm, Delta County
- ⁱWalther Farms NFPT Trial Selected Varieties, St. Joseph County
- ^jWalther Farms Russet Norkotah Trial, St. Joseph County
- ^kWalther Farms Silverton Russet Trial, St. Joseph County
- ^lWilk Farms, Presque Isle County

¹**SIZE**

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

²**SPECIFIC GRAVITY**

Data not replicated within trials

³**RAW TUBER QUALITY**

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

⁴**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

⁵**VINE VIGOR RATING**

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

⁶**VINE MATURITY RATING**

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

2018 Russet Potato Variety Trial

4-L Farms

Planting: 5/30/18 Vine Kill: 9/12/18 Harvest: 9/26/18

GDD₄₀: 3294

LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ⁴ (%)						COMMON SCAB RATING ⁵	VINE VIGOR ⁷	VINE MATURITY ⁸	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	HH	VD	IBS	BC					
AF5091-8RUS	503	555	91	3	88	3	6	1.065	0	0	10	0	0.0	3.0	2.5		
Russet Norkotah	476	527	90	4	90	0	6	1.071	50	20	0	0	0.0	3.0	3.0	sl pink eye	
CW08071-2RUS	461	536	86	7	86	0	7	1.075	20	40	0	0	0.5	3.0	2.5	pointed tubers, light russeting	
Vanguard	428	518	83	3	83	0	14	1.059	0	20	0	0	0.0	2.5	2.0	gc, knobs and misshapen in POs	
Silverton Russet	408	452	90	4	90	0	6	1.063	0	0	0	0	0.0	3.0	4.0	sl alligator hide	
CO05068-1RUS	358	455	79	9	79	0	12	1.084	20	10	10	0	0.0	2.5	3.0	tr alligator hide	
CO09036-2RUS	327	478	68	26	68	0	6	1.073	40	10	0	0	0.0	3.0	2.5	tubular tuber type	
CO07049-1RUS	278	412	68	17	68	0	15	1.068	10	20	0	0	0.0	2.0	2.5	dark russet skin type	
CO07015-4RUS	194	302	64	28	64	0	8	1.071	0	20	0	0	0.0	2.5	2.0		
MEAN	381	471	80	11	80	0	9	1.070	16	16	2	0	0.1	2.7	2.7		

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: 6/25/18
- Rating 1-5
- 1: Slow emergence
- 5: Early emergence (vigorous vine, some flowering)

⁶VINE MATURITY RATING

- Date: 8/28/18
- Rating 1-5
- 1: Early (vines completely dead)
- 5: Late (vigorous vines, some flowering)

FIELD DATA

Planting Date	5/30/18
Vine Kill Date	9/12/18
Harvest Date	9/26/18
Days (planting to vine kill)	105
Days (planting to harvest)	4/28/00
GDD ₄₀ MAWN Station	Allegan
GDD ₄₀ (planting to vine kill)	3294
Seed Spacing	10"
Row Width	34"
Harvest Length	23'

2018 Russet Potato Variety Trial

Crawford Farms

Planting: 5/29/18 Vine Kill: 9/6/18 Harvest: 10/26/18

GDD₄₀: 2945

LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ⁴ (%)					COMMON SCAB RATING ⁵	VINE VIGOR ⁷	VINE MATURITY ⁸	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	HH	VD	IBS	BC				
Caribou Russet	454	528	86	6	86	0	8	1.084	0	10	0	0	0.0	3.0	4.5	no alligator hide
Mountain Gem	451	556	81	9	81	0	10	1.084	70	0	0	0	0.0	2.5	4.0	mod alligator hide, good appearance
AF5406-7RUS	397	521	76	11	76	0	13	1.083	30	0	0	0	0.0	2.0	4.5	tubular, sl alligator hide, misshapen POs
Reveille Russet	376	471	80	7	80	0	13	1.081	0	0	0	0	0.0	1.5	3.5	
A07061-6RUS	371	463	80	13	80	0	7	1.082	0	0	0	0	2.0	3.0	4.0	sl alligator hide
CW08071-2RUS	349	447	78	19	78	0	3	1.083	30	0	0	0	0.0	3.0	3.5	mod alligator hide
Silverton Russet	335	458	73	20	70	3	7	1.077	0	30	0	0	0.0	2.5	4.5	medium russetting
CO05068-1RUS	282	454	62	35	62	0	3	1.093	50	20	0	10	0.0	3.0	4.0	mod skinning
AF5091-8RUS	262	366	72	13	72	0	15	1.067	0	0	0	0	0.0	2.5	2.0	heavy eyebrows, medium russet
Vanguard	247	310	80	14	80	0	6	1.066	0	20	0	0	0.0	2.5	1.5	
CO07049-1RUS	238	422	56	40	56	0	4	1.082	0	10	0	0	0.0	2.0	3.0	heavy russet skin, misshapen pickouts
Russet Norkotah	192	297	65	25	65	0	10	1.072	60	0	0	0	0.0	3.0	2.5	mod alligator hide
AF5312-1RUS	181	329	55	37	55	0	8	1.074	10	0	0	0	0.0	2.5	3.0	heavy russetting
CO09036-2RUS	152	341	45	47	45	0	8	1.089	20	20	0	0	0.0	2.5	4.0	netted skin, small pointed tubers
CO07015-4RUS	108	314	34	61	34	0	5	1.076	0	20	0	0	0.0	2.0	3.0	heavy russet skin, no alligator hide
MEAN	293	418	68	24	68	0	8	1.080	18	9	0	1	0	2.5	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
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: 6/26/18
Rating 1-5
1: Slow emergence
5: Early emergence (vigorous vine, some flowering)

⁶VINE MATURITY RATING

Date: 8/20/18
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

FIELD DATA

Planting Date	5/29/18
Vine Kill Date	9/6/18
Harvest Date	10/26/18
Days (planting to vine kill)	100
Days (planting to harvest)	150
GDD ₄₀ MAWN Station	Entrican
GDD ₄₀ (planting to vine kill)	2945
Seed Spacing	10"
Row Width	34"
Harvest Length	23'

2018 Russet Potato Variety Trial

Elmapple Farms

Planting: 5/21/18 Vine Kill:9/6/18 Harvest: 9/29/18
GDD₄₀: 2902

LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ⁴ (%)						COMMON SCAB RATING ⁵	VINE VIGOR ⁷	VINE MATURITY ⁸	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	HH	VD	IBS	BC					
Caribou Russet	560	646	87	3	87	0	10	1.067	0	0	0	0	0.0	3.5	3.5	sl alligator hide, misshapen tubers in POs	
Reveille Russet	539	618	87	5	86	1	8	1.062	0	0	0	0	0.0	2.0	3.0	GC and misshapen POs	
CW08071-2RUS	514	549	94	5	94	0	1	1.069	0	20	0	0	0.5	3.0	3.0	nice blocky tuber type, medium russet skin type	
WAF10612-1RUS	494	633	78	17	78	0	5	1.069	0	0	0	0	2.0	3.5	3.5	mod alligator hide, misshapen tubers in POs	
Silverton Russet	436	500	87	9	87	0	4	1.064	10	0	0	0	0.0	3.0	3.5	nice uniform tuber appearance and type	
Russet Norkotah	434	535	81	9	81	0	10	1.064	0	10	0	0	0.5	3.0	2.5	nice uniform russetting, misshapen POs	
A08433-4VRRUS	427	520	82	16	82	0	2	1.067	10	10	0	0	0.5	3.0	4.5	sl alligator hide	
AF5091-8RUS	409	494	83	7	83	0	10	1.064	0	20	0	0	1.0	3.0	2.5	heavy eyebrowing	
AF5312-1RUS	403	506	80	14	80	0	6	1.065	0	0	0	0	0.0	3.0	2.0	medium russet skin type, tubular tuber type	
Vanguard	394	439	90	4	90	0	6	1.058	0	10	0	0	0.0	2.8	2.0	sl alligator hide	
W10612-8RUS	387	435	89	5	89	0	6	1.067	20	0	0	0	0.5	3.5	2.5	tr alligator hide	
AF5406-7RUS	370	451	82	9	82	0	9	1.069	0	0	0	0	0.0	3.0	4.0	tubular tuber type, light to medium russet skin type	
A06021-1TRUS	359	415	86	7	86	0	7	1.073	0	30	0	0	0.5	2.5	2.5	mod alligator hide, misshapen tubers in POs	
A07061-6RUS	339	449	76	21	76	0	3	1.068	0	0	0	0	2.5	3.0	3.0	sl alligator hide, tubular tuber type	
W10594-16RUS	335	423	79	16	79	0	5	1.071	0	0	0	0	0.5	2.5	2.5	light russet skin type, sl alligator hide	
CO05068-1RUS	300	460	65	27	65	0	8	1.085	0	20	0	0	0.0	3.5	3.0	uniform tuber type, medium russet skin type	
Mountain Gem	300	406	74	9	74	0	17	1.071	0	0	0	0	0.0	2.5	4.0	some tubers with deep apical eyes, mod alligator hide	
AF5179-4RUS	300	393	76	17	76	0	7	1.075	0	0	0	0	3.0	3.0	4.5	poor tuber shape, misshapen POs	
Goldrush Russet	252	421	60	24	60	0	16	1.061	0	20	0	0	0.0	3.0	2.5	misshapen tubers in POs	
A071012-4BFRUS	235	404	58	12	58	0	30	1.077	0	0	0	0	1.0	3.0	4.0	poor tuber shape, misshapen POs	
CO07049-1RUS	223	444	50	46	50	0	4	1.070	0	0	0	0	1.0	2.5	2.5	heavy russet skin type, tubular tuber type	
CO09036-2RUS	142	347	41	48	41	0	11	1.067	0	0	0	0	0.0	3.5	3.5	nice russet skin type, tubular tuber type, small size profile	
CO07015-4RUS	93	311	30	69	30	0	1	1.067	0	0	0	0	0.0	3.0	1.5	medium to heavy russet skin, small uniform tuber type	
MEAN	358	469	75	17	75	0	8	1.068	2	6	0	0	0.6	3.0	3.0		

¹SIZE

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

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: 6/20/18
Rating 1-5
1: Slow emergence
5: Early emergence (vigorous vine, some flowering)

⁶VINE MATURITY RATING

Date: 8/2/18
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

FIELD DATA

Planting Date 5/21/18
Vine Kill Date 9/6/18
Harvest Date 9/29/18
Days (planting to vine kill) 108
Days (planting to harvest) 131
GDD₄₀ MAWN Station Kalkaska
GDD₄₀ (planting to vine kill) 2902
Seed Spacing 10"
Row Width 34"
Harvest Length 23'

2018 Russet Potato Variety Trial

Horkey Brothers Farms

Planting: 5/1/18 Vine Kill: 8/27/18 Harvest: 9/28/18

GDD₄₀: 3580

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				
Caribou Russet	370	419	88	7	88	0	5	1.063	0	0	80	0	0.5	3.0	2.5	
Reveille Russet	354	441	80	19	80	0	1	1.062	0	0	0	0	0.0	1.5	1.0	
Silverton Russet	333	432	77	17	77	0	6	1.067	0	0	50	0	0.0	3.0	4.0	
A07061-6RUS	294	410	72	23	72	0	5	1.060	0	10	0	0	2.0	3.5	3.5	tuber bottlenecking in POs
CO07049-1RUS	255	501	51	45	51	0	4	1.065	0	0	0	0	0.0	3.0	3.0	tuber bottlenecking in POs
AF5091-8RUS	252	295	85	14	85	0	1	1.057	0	0	10	0	2.0	3.0	2.0	mod skinning, blocky tuber shape
Vanguard	212	252	84	13	84	0	3	1.049	0	0	0	0	0.0	3.5	1.0	mod skinning
CO05068-1RUS	189	388	49	34	49	0	17	1.076	0	20	0	0	0.5	3.0	3.5	mod skinning
AF5312-1RUS	187	269	69	25	69	0	6	1.059	0	0	0	0	0.0	2.0	1.0	sl skinning, heavy russeted skin
CO09036-2RUS	143	347	41	40	41	0	19	1.066	0	0	0	0	0.5	3.5	2.5	severe tuber bottlenecking in POs
CW08071-2RUS	128	240	53	45	53	0	2	1.062	0	0	0	0	2.5	3.5	1.5	lighter russet skin
Russet Norkotah	118	215	55	42	55	0	3	1.062	0	70	0	0	0.0	4.0	1.5	
CO07015-4RUS	63	162	39	60	39	0	1	1.062	0	0	0	0	0.0	4.0	2.0	sl skinning, heavy russeted skin
MEAN	223	336	65	30	65	0	6	1.062	0	8	11	0	0.6	3.1	2.2	

¹SIZE

Russets

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

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: 5/31/18
- Rating 1-5
- 1: Slow emergence
- 5: Early emergence (vigorous vine, some flowering)

⁶VINE MATURITY RATING

- Date: 8/16/18
- Rating 1-5
- 1: Early (vines completely dead)
- 5: Late (vigorous vines, some flowering)

FIELD DATA

- Planting Date 5/1/18
- Vine Kill Date 8/27/18
- Harvest Date 9/28/18
- Days (planting to vine kill) 118
- Days (planting to harvest) 150
- GDD₄₀ MAWN Station Deerfield
- GDD₄₀ (planting to vine kill) 3580
- Seed Spacing 10"
- Row Width 34"
- Harvest Length 23'

2018 Russet Potato Variety Trial

Jenkins Farms

Planting: 5/16/18 Vine Kill: 9/4/18 Harvest: 9/29/18
GDD₄₀: 2571

LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ⁴ (%)					COMMON SCAB RATING ⁵	VINE VIGOR ⁷	VINE MATURITY ⁸	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	HH	VD	IBS	BC				
Reveille Russet	660	772	85	4	84	1	11	1.069	0	0	0	0	0.0	2.0	3.0	heavy russet skin type, blocky tuber type
Caribou Russet	628	703	89	4	88	1	7	1.077	20	10	0	0	0.0	2.5	3.5	tr alligator hide
Mountain Gem	570	625	91	6	91	0	3	1.076	50	10	0	0	0.0	2.5	3.5	deep apical eyes in POs
A07061-6RUS	535	615	87	11	87	0	2	1.073	0	0	0	0	0.5	3.0	3.5	sl alligator hide
Vanguard	498	540	92	6	92	0	2	1.068	0	0	0	0	0.0	2.5	2.0	medium to heavy russet skin type
Russet Norkotah	489	585	84	8	84	0	8	1.071	60	0	0	0	0.0	2.5	3.0	mod alligator hide
Silverton Russet	422	472	89	8	89	0	3	1.072	50	0	0	0	0.0	3.0	3.5	
AF5091-8RUS	379	473	80	12	80	0	8	1.063	0	30	0	0	0.5	3.0	2.5	sl alligator hide, knobs in POs, heavy eyebrowing
CO05068-1RUS	352	496	71	27	71	0	2	1.089	30	10	0	0	0.0	3.5	3.5	light russet skin
AF5312-1RUS	348	444	78	15	78	0	7	1.072	10	0	0	0	0.0	3.0	1.5	heavy russet skin type, tr alligator hide, misshapen POs
CW08071-2RUS	331	382	87	10	87	0	3	1.075	0	30	0	0	2.0	3.5	2.0	medium to heavy russet skin type
Goldrush Russet	317	430	74	19	74	0	7	1.067	10	20	0	0	0.0	2.5	1.5	heavy russet skin type
CO09036-2RUS	242	465	52	42	52	0	6	1.077	70	0	0	0	0.0	3.0	3.5	heavy russeted skin type, tubular tuber type
CO07015-4RUS	75	250	30	67	30	0	3	1.067	0	0	0	0	0.0	3.0	1.5	medium russet skin type, small size profile
CO07049-1RUS	4	210	2	88	2	0	10	1.074	10	0	0	0	0.0	2.5	3.0	nice russeted skin type, small size profile
MEAN	390	497	73	22	73	0	5	1.073	21	7	0	0	0.2	2.8	2.7	

¹SIZE

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

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: 6/20/18
Rating 1-5
1: Slow emergence
5: Early emergence (vigorous vine, some flowering)

⁶VINE MATURITY RATING

Date: 8/21/18
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

FIELD DATA

Planting Date	5/16/18
Vine Kill Date	9/4/18
Harvest Date	9/29/18
Days (planting to vine kill)	97
Days (planting to harvest)	111
GDD ₄₀ MAWN Station	Kalkaska
GDD ₄₀ (planting to vine kill)	2571
Seed Spacing	10"
Row Width	34"
Harvest Length	23'

2018 Russet Potato Variety Trial

Kitchen Farms

Planting: 5/18/18 Vine Kill: 9/5/18 Harvest: 10/13/18
GDD₄₀: 2914

LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ⁴ (%)					COMMON SCAB RATING ⁵	VINE VIGOR ⁷	VINE MATURITY ⁸	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	HH	VD	IBS	BC				
Caribou Russet	693	724	96	1	94	2	3	1.071	0	10	0	0	0.0	4.0	3.0	large tuber type, knobs in pickouts
A071012-4BFRUS	692	752	92	7	92	0	1	1.098	20	0	0	0	0.5	4.0	4.5	medium russet skin type
Russet Norkotah	637	681	93	5	93	0	2	1.076	0	0	0	0	0.0	3.5	2.5	slight alligator hide
Reveille Russet	631	654	96	3	92	4	1	1.072	0	0	0	0	0.0	3.0	4.0	tr alligator hide, heavy russet skin type
Silverton Russet	582	648	90	6	90	0	4	1.068	20	0	0	0	0.0	3.5	3.0	sl alligator hide, GC and misshapen POs
A06021-1TRUS	575	660	87	5	87	0	8	1.084	0	0	0	0	0.0	3.0	3.0	heavy russet skin, misshapen and GC in Pos
A07061-6RUS	571	659	87	11	87	0	2	1.075	0	0	0	0	0.0	4.0	3.5	sl powdery scab, light russet skin type, knobs in POs
Mountain Gem	527	574	92	6	92	0	2	1.082	20	0	0	0	0.0	3.0	4.0	slight alligator hide, deep eyes
A08433-4VRRUS	511	598	85	10	85	0	5	1.076	0	0	0	0	0.0	3.0	4.5	
CO05068-1RUS	493	576	86	11	86	0	3	1.092	30	0	0	0	0.0	3.5	4.5	mod alligator hide
W10594-16RUS	483	540	90	9	90	0	1	1.081	30	0	0	0	0.5	3.5	2.5	severe powdery scab
Vanguard	463	517	89	9	89	0	2	1.068	0	0	0	0	0.0	3.5	3.0	medium russet, fairly uniform, oblong to long tuber type
AF5312-1RUS	444	525	84	11	84	0	5	1.073	50	0	0	0	0.0	3.0	3.0	deep eyes, heavy russeted skin type
AF5179-4RUS	436	521	84	9	84	0	7	1.087	0	0	0	0	0.0	3.5	3.5	tubular tuber type
W10612-8RUS	411	476	86	8	86	0	6	1.073	50	0	0	0	0.5	2.5	4.0	mod alligator hide, tr powdery scab
AF5091-8RUS	388	467	83	8	83	0	9	1.069	20	0	0	0	1.0	3.0	3.0	heavy eyebrowning
Goldrush Russet	347	457	76	10	74	2	14	1.074	0	0	0	0	0.0	3.0	3.0	no powdery scab, misshapen pickouts
CO09036-2RUS	310	413	75	25	75	0	0	1.078	10	0	0	0	0.0	3.5	2.5	nice russetting, smaller tuber type
CO07015-4RUS	252	371	68	29	68	0	3	1.076	10	0	0	0	0.0	3.0	2.0	medium russet tuber type, misshapen pickouts
CO07049-1RUS	159	396	40	59	40	0	1	1.074	0	0	0	0	0.0	3.0	3.0	flat long tuber type, medium russet skin
AF5406-7RUS	-	-	-	-	-	-	-	1.079	0	0	0	0	0.0	3.5	2.5	
CW08071-2RUS	-	-	-	-	-	-	-	1.074	10	0	0	0	0.0	4.0	3.0	
MEAN	480	560	84	12	84	0	4	1.077	12	0	0	0	0.1	3.3	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: 6/20/18
Rating 1-5
1: Slow emergence
5: Early emergence (vigorous vine, some flowering)

⁶VINE MATURITY RATING

Date: 8/21/18
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

FIELD DATA

Planting Date 5/18/18
Vine Kill Date 9/5/18
Harvest Date 10/13/18
Days (planting to vine kill) 110
Days (planting to harvest) 148
GDD₄₀ MAWN Station Kalkaska
GDD₄₀ (planting to vine kill) 2914
Seed Spacing 10"
Row Width 34"
Harvest Length 23'

2018 Russet Variety Trial

Lennard Ag.Co.

Planting: 4/23/18 Vine Kill: 9/10/18 Harvest: 9/15/18
GDD₄₀: 4112

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				
Russet Norkotah	512	750	68	5	68	0	27	1.070	30	10	0	0	0.0	3.0	3.5	heavy russet skin
A08433-4VRRUS	560	710	79	4	79	0	17	1.079	10	20	0	0	0.5	2.5	3.0	sl alligator hide
Caribou Russet	512	673	76	2	76	0	22	1.070	0	10	40	0	0.0	3.0	3.5	heavy russet skin, blocky
CO05068-1RUS	411	663	62	11	62	0	27	1.091	20	0	40	0	0.5	2.0	2.0	heat sprouting, sl skinning
A07061-6RUS	544	658	83	9	83	0	8	1.076	0	0	0	0	1.0	3.0	2.5	mod alligator hide
Reveille Russet	485	629	77	5	77	0	18	1.062	0	0	0	0	0.5	2.0	3.0	possible herbicide injury or PVY, heavy russet skin
A071012-4BFRUS	509	625	81	4	81	0	15	1.088	20	0	0	0	0.5	3.0	3.0	heavy russetting skin, tubular shape
AF5179-4RUS	359	603	60	6	60	0	34	1.080	0	0	10	0	1.0	1.5	1.5	non uniform tuber size, sl skinning
AF5091-8RUS	515	594	87	7	87	0	6	1.061	0	10	30	0	0.0	1.5	2.5	tr alligator hide, sl sprouting, knobs and misshapen POs
CW08071-2RUS	527	581	91	4	91	0	5	1.073	10	0	20	0	0.0	2.5	3.0	blocky, POs misshapen and some cracking, sl alligator
AF5406-7RUS	287	566	51	12	51	0	37	1.069	10	10	10	0	0.0	2.5	2.5	mod alligator hide, very tubular, bottleneaking, variable size
Silverton Russet	415	545	76	7	76	0	17	1.061	0	10	20	0	0.5	3.0	3.5	heavy russet skin
AF5312-1RUS	359	532	68	6	68	0	26	1.067	0	0	0	0	0.0	3.0	3.0	heavy russet skin
CO09036-2RUS	247	515	48	20	48	0	32	1.074	30	0	0	0	0.5	2.0	4.0	heavy russet skin
W10594-16RUS	375	509	74	11	74	0	15	1.076	0	10	0	0	1.0	2.5	2.5	mod skinning
A06021-1TRUS	367	509	72	7	72	0	21	1.076	30	10	0	0	0.0	1.5	2.5	mod alligator hide, non uniform tuber type
Vanguard	420	506	83	8	83	0	9	1.063	0	0	0	0	0.0	2.5	2.0	misshapen, mod alligator hide
CO07015-4RUS	242	392	62	25	62	0	13	1.073	0	10	10	0	0.0	2.5	2.5	
CO07049-1RUS	202	326	62	38	62	0	0	1.070	0	0	0	0	0.0	2.5	3.0	15% PVY observed at vine vigor
MEAN	413	573	72	10	72	0	18	1.073	8	5	9	0	0.3	2.4	2.8	

¹SIZE

Russets

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

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: 5/31/18
Rating 1-5
1: Slow emergence
5: Early emergence (vigorous vine, some flowering)

⁶VINE MATURITY RATING

Date: 8/17/18
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

FIELD DATA

Planting Date 4/23/18
Vine Kill Date 9/10/18
Harvest Date 9/15/18
Days (planting to vine kill) 140
Days (planting to harvest) 145
GDD₄₀ MAWN Station Cassopolis
GDD₄₀ (planting to vine kill) 4112
Seed Spacing 10"
Row Width 34"
Harvest Length 23'

2018 Russet Potato Variety Trial

Verbrigge Potato Farm

Planting: 5/31/18 Vine Kill: 9/12/18 Harvest: 10/12/18
GDD₄₀: 2640

LINE	CWT/A		PERCENT OF TOTAL ¹						RAW TUBER QUALITY ³ (%)				COMMON SCAB RATING ⁴	VINE VIGOR ⁵	VINE MATURITY ⁶
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	HH	VD	IBS	BC			
Mountain Gem	478	529	91	6	49	42	3	1.075	0	0	0	0	0	3.5	3.0
A07061-6RUS	444	559	80	15	59	21	5	1.083	0	0	10	0	0	3.5	4.5
AF5406-7RUS	385	463	83	2	23	60	15	1.083	0	10	0	0	0	4.0	4.0
Reveille Russet	377	473	80	11	49	31	9	1.072	10	0	30	0	0	3.5	3.0
A08433-4VRRUS	377	447	85	5	47	38	10	1.083	0	0	0	0	0	4.5	5.0
Vanguard	351	503	70	15	54	16	15	1.074	0	0	0	0	0	4.0	2.5
Russet Norkotah	348	428	81	6	43	38	13	1.086	0	30	0	0	0	4.0	3.5
CW08071-2RUS	330	353	93	5	64	29	2	1.087	0	0	20	0	0	3.5	3.5
W10594-16RUS	313	385	81	13	55	26	6	1.081	0	0	10	0	0	4.0	3.5
Caribou Russet	302	347	87	6	40	47	7	1.080	0	10	0	0	0	5.0	3.5
CO07015-4RUS	277	344	80	18	68	12	2	1.078	0	30	0	0	0	4.5	2.5
Silverton Russet	274	311	88	10	60	28	2	1.076	0	0	0	0	0	5.0	3.5
A06021-1TRUS	267	392	68	16	43	25	16	1.082	0	0	10	0	0	3.5	3.5
AF5091-8RUS	265	336	78	12	41	37	10	1.073	0	0	0	0	0	4.5	3.5
CO05068-1RUS	257	329	78	13	59	19	9	1.098	10	0	10	0	0	5.0	4.5
CO07049-1RUS	235	303	77	19	70	7	4	1.084	0	0	0	0	0	4.5	3.5
AF5312-1RUS	154	231	67	30	58	9	3	1.082	20	0	10	0	0	5.0	3.0
CO09036-2RUS	154	241	64	24	54	10	12	1.074	0	0	0	0	0	4.5	3.0
MEAN	310	387	80	13	52	28	8	1.081	2	4	6	0	0.0	4.2	3.5

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: 7/13/18
Rating 1-5
1: Slow emergence
5: Early emergence (vigorous vine, some flowering)

⁶VINE MATURITY RATING

Date: 8/29/18
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

FIELD DATA

Planting Date 5/31/18
Vine Kill Date 9/12/18
Harvest Date 10/12/18
Days (planting to vine kill) 104
Days (planting to harvest) 134
GDD₄₀ MAWN Station Escanaba
GDD₄₀ (planting to vine kill) 2640
Seed Spacing 10"
Row Width 36"
Harvest Length 23'

2018 Russet Potato Variety Trial

Walther Farms NFPT and Add Ons

Planting: 4/30/18 Vine Kill: 8/31/18 Harvest: 10/4/18

GDD₄₀: 3746

LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ⁴ (%)						COMMON SCAB RATING ⁵	VINE VIGOR ⁷	VINE MATURITY ⁸	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	HH	VD	IBS	BC					
AOR10633-1	807	921	88	3	88	0	9	1.081	0	0	60	0	1.0	2.5	4.0	mod alligator hide, GCs in POs	
OR12133-10	790	915	86	4	84	2	10	1.075	0	20	30	0	0.0	3.0	4.5	knobs and misshapen POs, mod alligator hide	
A08433-4sto	736	981	75	4	75	0	21	1.072	10	0	0	0	0.0	2.0	4.0	sl alligator hide, misshapen POs	
AF5492-6	654	763	86	7	86	0	7	1.076	40	0	0	0	1.0	2.5	4.0	mod alligator hide, misshapen POs	
W13012-18rus	649	802	81	9	81	0	10	1.080	50	0	0	0	0.0	1.0	5.0	heavy russet skin type, misshapen POs	
AOR08540-1	603	742	81	7	81	0	12	1.074	80	0	0	0	2.0	2.5	4.5	GCs and misshapen POs, sl alligator hide	
A071012-4BF	573	725	79	3	79	0	18	1.085	70	30	0	0	1.0	2.5	4.0	mod alligator hide, misshapen POs	
A07705-4	554	796	70	7	70	0	23	1.067	0	10	30	0	0.0	1.5	4.0	GCs and misshapen POs, mod alligator hide	
AF5644-8	512	617	83	9	83	0	8	1.074	50	0	0	0	0.0	1.5	5.0	mod alligator hide, misshapen and knobs in POs	
AAF10237-4	512	767	67	6	65	2	27	1.071	0	50	10	0	2.5	2.0	5.0	GCs and misshapen POs, sl alligator hide	
W13A11229-1rus	508	605	84	8	84	0	8	1.080	10	20	10	0	0.0	1.5	4.0	sl alligator hide, misshapen POs	
AAF10615-1	489	575	85	5	85	0	10	1.080	50	20	70	0	0.0	2.5	4.0	sl alligator hide, knobs and GCs in POs	
A11226-1	479	580	83	3	83	0	14	1.064	0	10	0	0	1.0	1.0	4.0	mod alligator hide, knobs in POs	
A07061-6RUS	475	612	78	11	76	2	11	1.069	0	0	0	0	1.0	2.5	4.0	knobs and misshapen POs, sl alligator hide	
NDAF113476CB-3	457	582	79	9	79	0	12	1.081	40	0	0	0	2.0	1.5	4.0	mod alligator hide, knobs in POs	
AOR06576-1	448	784	57	9	57	0	34	1.065	10	0	0	0	1.5	2.0	3.5	misshapen and knobs in POs, trace alligator hide	
Ranger Russet	426	644	66	12	66	0	22	1.080	0	10	0	0	0.0	1.5	4.0	heavy russet skin, misshapen and GCs POs, sl alligator hide	
AO02183-2	420	565	74	15	74	0	11	1.072	80	0	0	0	0.5	2.0	4.0	heavy russet skin, mod alligator hide, GCs and knobs in POs	
AF5494-3	419	545	77	5	69	8	18	1.060	50	10	0	0	0.0	2.5	3.0	knobs and misshapen POs, trace alligator hide	
ND12241YB-2Russ	410	587	70	7	70	0	23	1.082	80	0	0	0	2.0	1.5	4.0	mod alligator hide, GC and knobs in Pos	
A07769-4	408	500	82	4	82	0	14	1.079	0	20	20	0	1.0	2.0	4.0	misshapen POs	
CO10091-1RUS	407	495	82	11	82	0	7	1.073	10	0	0	0	1.0	1.5	3.0	mod alligator hide, GC and misshapen POS	
AF5406-7	403	579	70	10	70	0	20	1.066	0	0	10	0	0.0	1.5	4.0	mod alligator hide, misshapen POs	
A10595-13sto	388	462	83	7	81	2	10	1.079	50	0	0	0	1.5	2.0	3.0	misshapen POs	
A10594-4sto	373	584	64	2	64	0	34	1.080	10	30	10	10	1.5	2.5	3.0	mod alligator hide, GC and misshapen Pos	
ND050032-4Russ	346	511	68	9	68	0	23	1.076	0	0	60	0	0.0	1.0	4.0	mod alligator hide, misshapen POs	
Russet Burbank	344	628	55	16	55	0	29	1.072	0	0	0	0	0.0	1.5	4.0	sl alligator hide, misshapen POs	
AF5661-13	328	420	78	19	78	0	3	1.068	20	10	0	0	0.0	2.0	5.0	sl alligator hide, misshapen POs	
A07098-4	302	431	70	19	70	0	11	1.064	0	10	0	0	1.0	2.0	4.0	sl alligator hide, knobs in POs	
A10947-3CSR	274	400	68	9	68	0	23	1.075	10	0	0	0	0.0	1.5	3.5	misshapen and knobs in POs, tr alligator hide	
AF5628-2	263	326	81	6	81	0	13	1.065	0	0	10	0	0.0	2.0	2.5	GCs in POs, trace alligator hide	
A11188-1	253	435	58	12	58	0	30	1.058	0	20	0	0	2.5	2.0	4.0	mod alligator hide, mishapen and GC in Pos	
AF5071-2	237	478	50	9	50	0	41	1.069	40	10	0	0	0.0	3.0	4.0	poor tuber type, misshapen and GCs in POs	
AAF07521-1	232	443	53	6	53	0	41	1.068	0	0	0	0	0.0	1.5	5.0	knobs and GCs in POs, trace alligator hide	
COAF11149-5	230	336	69	14	69	0	17	1.053	0	0	0	0	0.0	1.0	3.0	heavy russet skin type, GC in POs, sl alligator hide	
A11737-1LB	226	313	72	20	72	0	8	1.070	0	0	0	0	1.0	2.0	3.0	GCs in POs, sl alligator hide	
CO10087-4RUS	224	355	63	19	63	0	18	1.073	50	0	0	0	1.0	1.5	2.5	GCs in POs, sl alligator	
TX13590-9Ru	200	257	78	9	78	0	13	1.067	50	0	0	0	0.5	1.5	4.0	trace alligator hide, pear shaped POs	
CO09036-2RUS	138	312	44	22	44	0	34	1.060	30	0	0	0	1.0	1.0	4.0	sl alligator hide, GCs and knobs in POs	
*A08433-4VRRUS	759	935	81	5	81	0	14	1.075	10	0	10	0	0.0	2.0	4.0	sl alligator hide, pointed tubers in POs	
AF5657-1RUS	649	734	88	4	88	0	8	1.061	0	0	20	0	2.0	1.0	3.5	medium russet skin type, GCs in POs, mod alligator hide	
Silverton Russet	594	720	82	6	82	0	12	1.064	0	0	40	10	2.5	2.5	4.0	GCs, misshapen tubers, mod alligator hide	
AOR06576-1	578	754	77	7	77	0	16	1.072	20	0	0	0	1.0	2.0	3.5	mod alligator hide, knobs and GCs in POs	
Castle Russet	572	650	88	6	88	0	6	1.077	60	0	0	0	0.0	1.5	4.0	mod alligator hide, misshapen tubers in POs	

Reveille Russet	571	648	88	4	86	2	8	1.064	0	0	0	0	0.5	2.0	4.0	heavy russet skin type, misshapen POs
Caribou Russet	559	865	65	5	65	0	30	1.073	0	0	60	0	0.0	2.5	3.5	misshapen and GCs in POs, sl alligator hide
CO05068-1RUS	559	763	73	11	73	0	16	1.083	80	30	30	0	0.5	2.5	4.0	GCs, knobs and misshapen POs, sl alligator hide
CW08071-2RUS	534	706	76	7	76	0	17	1.068	0	0	0	0	0.0	2.0	4.0	mod alligator hide, GCs and knobs in POs
A07061-6RUS	523	663	78	7	77	1	15	1.073	0	20	0	0	1.0	2.0	5.0	GCs and misshapen POs, trace alligator hide
Vanguard	494	614	80	6	80	0	14	1.060	0	0	0	0	0.0	2.0	4.0	GCs and misshapen POs, sl alligator hide
AF5179-4RUS	472	743	64	6	64	0	30	1.080	10	0	60	0	1.0	2.5	4.0	sl alligator hide, misshapen and GCs in POs
AOR07781-5	457	626	73	10	73	0	17	1.077	20	10	0	0	0.0	2.5	3.0	mod alligator hide, knobby, mishappen
COAF11112-10RUS	455	587	78	6	78	0	16	1.054	20	0	0	0	2.5	1.5	4.0	GCs and misshapen POs, sl alligator hide
AF5091-8RUS	446	629	71	6	71	0	23	1.062	0	10	0	0	1.0	2.5	4.0	GCs, knobby, mishappen oversize tubers
Russet Norkotah	445	660	68	8	68	0	24	1.071	0	0	0	0	0.0	2.0	4.0	mod alligator hide, GCs and misshapen in POs
AF5468-5RUS	439	560	78	7	78	0	15	1.065	30	0	0	0	0.0	2.5	4.0	misshapen POs, sl alligator hide
AO06191-1RUS	436	500	87	5	87	0	8	1.069	70	0	0	0	0.5	1.5	3.0	heavy russet skin type, sl alligator hide, misshapen POs
CO09036-2RUS	434	778	56	23	56	0	21	1.075	30	0	0	0	0.0	2.0	5.0	sl alligator hide, misshapen POs, bottle necking
WAF10612-1RUS	424	542	78	12	78	0	10	1.076	20	10	0	0	2.5	2.5	4.0	mod alligator hide, knobs in POs
CO10091-1RUS	409	476	86	11	86	0	3	1.074	20	0	0	0	0.0	2.0	3.5	mod alligator hide, GCs and misshapen POs, heavy russet skin
A06021-1TRUS	375	461	81	10	81	0	9	1.079	20	0	0	0	1.5	1.0	4.0	misshappen POs, sl alligator hide
COAF11112-13RUS	355	452	78	10	78	0	12	1.058	0	0	20	0	1.0	2.0	3.0	mod alligator hide, misshapen POs, heavy russet skin
AF5659-1RUS	348	531	65	14	65	0	21	1.062	30	0	0	0	2.0	1.5	3.0	severe alligator hide, GCs in POs, poor tuber appearance
Mountain Gem	330	535	62	5	62	0	33	1.072	30	10	0	10	0.0	1.5	5.0	mod alligator hide, mishapen and GCs in POs
AF5312-1RUS	317	549	58	6	58	0	36	1.068	0	0	0	0	2.5	1.5	4.0	misshapen and knobs in POs, sl alligator hide
CO07015-4RUS	307	422	73	21	73	0	6	1.070	0	0	0	0	0.0	2.5	2.5	heavy russet skin type, misshapen POs
CO10087-4RUS	294	410	72	18	72	0	10	1.074	50	10	0	0	0.0	2.5	3.0	heavy russet skin, mod alligator hide
CO07049-1RUS	230	464	50	32	50	0	18	1.066	0	0	10	0	0.0	2.0	3.5	GCs in POs, sl alligator hide
Goldrush Russet	168	405	41	11	41	0	48	1.059	10	0	0	0	0.0	2.0	3.5	misshapen and GCs in pickoputs
MEAN	439	596	73	9	73	0	18	1	20	6	9	0	0.7	1.9	3.9	

¹SIZE

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

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: 5/31/18
Rating 1-5
1: Slow emergence
5: Early emergence (vigorous vine, some flowering)

⁶VINE MATURITY RATING

Date: 8/14/18
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

FIELD DATA

Planting Date 4/30/18
Vine Kill Date 8/31/18
Harvest Date 10/4/18
Days (planting to vine kill) 123
Days (planting to harvest) 157
GDD₄₀ MAWN Station Mendon
GDD₄₀ (planting to vine kill) 3746
Seed Spacing 10"
Row Width 34"
Harvest Length 15'

* Denotes beginning of Add Ons trial

2018 Russet Variety Trial

Walther Norkotah Management Trial

Planting: 4/30/18 Vine Kill: 8/31/18 Harvest: 10/7/18

GDD₄₀: 3746

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				
A08433-4VRRUS	606	768	79	5	79	0	16	1.068	27	17	0	0	0.0	2.0	4.3	larger tuber type, misshapen POs
AF5091-8RUS	584	729	79	3	78	1	18	1.059	0	13	13	0	0.3	2.5	3.3	mod alligator hide, misshapen POs
A07061-6RUS	570	668	85	8	85	0	7	1.070	0	17	0	0	0.3	2.7	4.0	sl alligator hide, misshapen POs
Russet Norkotah	554	710	78	5	78	0	17	1.062	13	33	10	0	0.0	2.3	3.7	misshapen POs
Reveille Russet	549	679	81	5	80	1	14	1.061	7	17	3	0	1.0	1.7	3.7	mod alligator hide
Vanguard	540	677	80	4	80	0	16	1.058	0	13	0	0	0.7	2.2	3.3	misshapen POs
WAF10612-1RUS	539	728	74	8	74	0	18	1.076	17	17	0	0	1.8	2.8	3.7	light russet skin type, mod alligator hide
CW08071-2RUS	537	631	84	5	83	1	11	1.068	3	7	7	0	0.8	2.3	3.2	sl alligator hide
Silverton Russet	518	650	80	7	80	0	13	1.057	20	23	27	0	0.3	2.8	4.0	mod alligator hide
Caribou Russet	497	652	76	6	76	0	18	1.067	13	23	40	0	0.8	3.2	3.7	mod alligator hide, GC in POs
W10612-8RUS	495	745	84	6	84	0	10	1.074	0	13	50	0	2.0	2.5	2.3	misshapen POs
CO10091-1RUS	475	563	84	8	84	0	8	1.075	13	7	13	0	0.8	1.8	2.8	heavy russetting, GC in POs
A06021-1TRUS	469	630	75	8	75	0	17	1.079	37	10	13	0	1.2	1.8	3.7	sl alligator hide, misshapen POs
W10594-16RUS	468	526	70	15	70	0	15	1.077	3	3	7	0	1.5	2.2	3.7	light russet skin type, tr alligator hide
Castle Russet	466	565	82	9	82	0	9	1.068	90	10	0	0	0.0	2.0	4.3	mod alligator hide, second growth in POs
AF5179-4RUS	416	602	69	5	69	0	26	1.082	3	10	0	0	0.3	2.0	4.0	light russet skin type, mod alligator hide
CO05068-1RUS	387	560	69	14	69	0	17	1.083	33	0	43	0	0.3	2.7	4.7	sl alligator hide, misshapen POs
A071012-4BFRUS	374	520	72	7	72	0	21	1.081	37	3	3	3	0.2	2.8	4.5	misshapen POs
CO07015-4RUS	374	504	74	13	74	0	13	1.073	0	0	27	0	0.0	2.3	2.8	mod alligator hide
AF5406-7RUS	366	610	60	9	59	1	31	1.067	17	3	10	0	0.0	2.2	4.0	sl alligator hide, lighter russet skin
CO09036-2RUS	362	582	61	25	61	0	14	1.075	0	13	3	0	0.3	2.3	4.7	heavy russetting, pointed tuber type
CO10087-4RUS	360	469	77	10	77	0	13	1.078	47	0	10	0	0.0	2.5	2.2	mod alligator hide
AF5312-1RUS	281	553	51	10	51	0	39	1.065	0	7	10	0	0.5	2.5	3.3	non uniform tuber type, misshapen and GC in POs
CO07049-1RUS	274	564	49	21	49	0	30	1.072	7	17	3	0	0.0	2.7	2.3	heavy russetting
MEAN	461	620	74	9	74	0	17	1.071	16	12	12	0	0.6	2.4	3.6	
ANOVA p-value	<.0001	0.0005	<.0001	<.0001	<.0001	0.7244	<.0001	<.0001	<.0001	0.1374	<.0001	0.5552	0.0015	<.0001	<.0001	
HSD	223.5	234.2	18.5	7.6	18.7	-	16.2	0.008	38.1	-	31.4	-	1.9	0.9	1.3	

¹**SIZE**

Russets

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

²**SPECIFIC GRAVITY**

Three replicates

³**RAW TUBER QUALITY**

(percent of tubers out of 10)

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

⁴**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

⁵**VINE VIGOR RATING**

Date: 5/31/18
Rating 1-5
1: Slow emergence
5: Early emergence (vigorous vine, some flowering)

6VINE MATURITY RATING

Date: 8/14/18
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

FIELD DATA

Planting Date	4/30/18
Vine Kill Date	8/31/18
Harvest Date	10/7/18
Days (planting to vine kill)	123
Days (planting to harvest)	160
GDD ₄₀ MAWN Station	Mendon
GDD ₄₀ (planting to vine kill)	3746
Seed Spacing	10"
Row Width	34"
Harvest Length	23'

2018 Russet Variety Trial

Walther Silverton Management Trial

Planting: 4/26/18 Vine Kill: 8/23/18 Harvest: 9/22/18

GDD₄₀: 3501

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				
A07061-6RUS	298	357	83	10	83	0	7	1.066	0	20	3	0	0.2	2.5	3.7	lighter skin finish
CW08071-2RUS	291	338	85	9	85	0	6	1.069	0	13	0	0	0.2	2.3	2.0	mod alligator hide
A08433-4VRRUS	266	393	68	12	68	0	20	1.069	0	0	0	0	0.3	2.2	3.7	nice skin finish, POs have points and bottlenecking
Vanguard	261	363	72	10	70	2	18	1.060	0	3	0	0	0.0	2.0	2.8	misshapen and GC in POs
CO05068-1RUS	255	329	78	13	77	1	9	1.082	0	30	3	0	0.0	2.5	4.0	misshapen and second growth in POs
A071012-4BFRUS	240	320	75	12	75	0	13	1.080	27	3	0	0	0.2	2.5	3.8	mod alligator hide, skin flaking
Reveille Russet	239	313	76	9	74	2	15	1.060	0	7	3	0	1.7	1.7	2.8	longer tuber shape
AF5406-7RUS	232	319	72	13	68	4	15	1.068	3	0	0	0	1.5	2.2	3.7	mod alligator hide, misshapen tubers in POs
AF5312-1RUS	227	341	67	16	67	0	17	1.065	0	7	0	0	0.5	2.5	2.5	mod heat sprouting, GC and second growth in POs
AF5179-4RUS	226	326	69	9	64	5	22	1.074	3	0	0	0	1.0	1.8	3.3	mod tuber greening, GC in POs
A06021-1TRUS	209	290	72	12	72	0	16	1.075	3	17	3	0	1.0	1.5	2.7	second growth in POs, mod alligator hide
CO07015-4RUS	193	297	64	27	64	0	9	1.071	0	10	13	0	0.0	2.5	2.2	attractive skin finish and tuber type
W10594-16RUS	189	293	63	29	63	0	8	1.073	0	0	0	0	0.0	2.5	2.2	lighter skin with minimal russetting
Russet Norkotah	187	270	64	16	64	0	20	1.065	0	27	0	0	1.2	1.8	2.7	bottlenecking in POs
Silverton Russet	163	201	81	12	81	0	7	1.061	0	10	0	3	0.5	2.8	3.3	sl alligator hide
CO09036-2RUS	155	308	50	29	50	0	21	1.067	0	3	0	0	0.2	2.2	3.7	tuber bottlenecking, some pointed tubers
CO07049-1RUS	115	257	45	48	45	0	7	1.072	0	3	0	0	0.0	2.2	1.8	longer tuber type, sl alligator hide
Caribou Russet	108	144	76	12	74	2	12	1.063	0	20	23	7	0.7	2.5	2.5	mod alligator hide, many rotten tubers
AF5091-8RUS	105	142	72	17	71	1	11	1.055	0	3	3	0	0.5	2.2	2.8	mod alligator hide, sl heat sprouts
WAF10612-1RUS	98	169	56	21	56	0	23	1.073	0	0	3	0	2.8	2.7	2.7	misshapen POs
MEAN	203	289	69	17	69	1	13	1.068	2	9	3	0	0.5	2.3	2.9	
ANOVA p-value	<.0001	<.0001	<.0001	<.0001	<.0001	0.7128	0.0178	<.0001	<.0001	0.0344	0.0018	0.0100	<.0001	0.0016	<.0001	
HSD	158.1	174.0	24.1	15.0	25.1	-	-	0.005	16.0	-	17.9	5.6	1.6	1.1	1.1	

¹**SIZE**

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

²**SPECIFIC GRAVITY**

Three replicates

³**RAW TUBER QUALITY**

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

⁴**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

⁵**VINE VIGOR RATING**

Date: 5/31/18
Rating 1-5
1: Slow emergence
5: Early emergence (vigorous vine, some flowering)

⁶**VINE MATURITY RATING**

Date: 8/17/18
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

FIELD DATA

Planting Date 4/26/18
Vine Kill Date 8/23/18
Harvest Date 9/22/18
Days (planting to vine kill) 119
Days (planting to harvest) 149
GDD₄₀ MAWN Station Dowagiac
GDD₄₀ (planting to vine kill) 3501
Seed Spacing 10"
Row Width 34"
Harvest Length 23'

2018 Russet Potato Variety Trial

Wilk Farms

Planting: 5/23/18 Vine Kill: 9/22/18 Harvest: 10/24/18

GDD₄₀: 3150

LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ⁴ (%)					COMMON SCAB RATING ⁵	VINE VIGOR ⁷	VINE MATURITY ⁸	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	HH	VD	IBS	BC				
Russet Norkotah	518	536	97	2	94	3	1	1.082	0	20	0	0	0.0	5.0	2.0	
A08433-4VRRUS	489	537	91	4	77	14	5	1.078	0	30	0	0	0.0	4.5	5.0	
CW08071-2RUS	472	491	96	4	95	1	0	1.080	0	0	0	0	0.0	5.0	5.0	oval tuber shape
Mountain Gem	424	488	87	11	87	0	2	1.072	0	0	0	0	0.0	4.0	5.0	
AF5406-7RUS	421	552	76	7	76	0	17	1.076	0	10	0	0	0.0	4.0	4.0	misshapen and pointed tubers in POs
Caribou Russet	369	441	84	9	83	1	7	1.084	0	20	0	0	0.0	5.0	5.0	attractive tuber type and skin finish
Vanguard	339	368	92	8	92	0	0	1.080	0	0	0	0	0.0	4.5	3.0	
CO05068-1RUS	335	505	66	9	66	0	25	1.087	0	0	0	0	0.0	5.0	5.0	many misshapen POs
A07061-6RUS	319	409	78	19	78	0	3	1.083	0	0	0	0	0.0	5.0	4.0	misshapen and pointed tubers in POs
A06021-1TRUS	304	356	86	10	86	0	4	1.073	0	0	0	0	0.0	4.0	2.0	attractive tuber type
W10594-16RUS	292	390	75	21	75	0	4	1.075	0	0	0	0	0.0	4.5	5.0	sl alligator hide
Reveille Russet	274	314	87	11	87	0	2	1.075	0	10	0	0	0.0	4.5	3.0	
AF5091-8RUS	274	330	83	8	83	0	9	1.075	0	20	0	0	0.0	4.0	4.0	prominent eyes
AF5312-1RUS	232	317	73	26	71	2	1	1.075	0	0	0	0	0.0	4.5	1.0	darker netted skin, tr alligator hide
CO09036-2RUS	231	309	75	21	75	0	4	1.078	0	0	0	0	0.0	5.0	5.0	misshapen POs
Silverton Russet	212	280	76	17	76	0	7	1.076	0	10	0	0	0.0	5.0	4.0	second growth in POs
CO07049-1RUS	167	276	60	36	60	0	4	1.084	0	0	0	0	0.0	4.0	4.0	slihg skinning, variable skin finish
CO07015-4RUS	150	318	47	46	47	0	7	1.083	0	0	0	0	0.0	4.0	2.0	
MEAN	323	401	79	15	78	1	6	1.079	0	7	0	0	0	4.5	3.8	

¹**SIZE**

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

²**SPECIFIC GRAVITY**

Data not replicated

³**RAW TUBER QUALITY**

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

⁴**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

⁵**VINE VIGOR RATING**

Date: 7/12/18
Rating 1-5
1: Slow emergence
5: Early emergence (vigorous vine, some flowering)

⁶**VINE MATURITY RATING**

Date: 8/23/18
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

FIELD DATA

Planting Date 05/23/18
Vine Kill Date 09/22/18
Harvest Date 10/24/18
Days (planting to vine kill) 122
Days (planting to harvest) 154
GDD₄₀ MAWN Station Hawks
GDD₄₀ (planting to vine kill) 3150
Seed Spacing 10"
Row Width 34"
Harvest Length 23'

Russet Potatoes Bulk Planting Test Digs

LINE	CWT/A		PERCENT OF TOTAL ¹						TUBER SET							RAW TUBER QUALITY ³ (%)				COMMON SCAB RATING ⁴		
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	Stand Count	Stem Count	Bs	As	OV	PO	Total	Tubers Per Plant	Tubers Per Stem	HH	VD		IBS	BC
Mountain Gem (Elmaple Farms)	345	649	53	2	38	15	38	1.072	10	53	32	37	8	30	107	10.7	2.0	30	40	0	0	0.0
Mountain Gem (Jenkins Farms)	320	516	62	1	41	21	30	1.072	11	34	21	33	8	15	77	7.0	2.3	60	0	0	10	0.0
Reveille Russet (Elmaple Farms)	477	575	83	2	67	16	7	1.057	11	32	32	59	7	6	104	9.5	3.3	0	10	0	0	0.0
Reveille Russet (Jenkins Farms)	357	491	73	1	55	17	18	1.064	9	23	24	41	7	9	81	9.0	3.5	0	40	0	0	0.0
Reveille Russet (Lennard Ag. Co.)	232	418	55	4	49	6	16	1.052	9	23	41	35	2	14	92	10.2	4.0	10	0	0	20	0.0
Reveille Russet (Yoder)	401	583	69	3	45	24	12	1.062	12	34	49	11	12	43	115	9.6	3.4	0	0	0	0	0.0
Vanguard (Elmaple Farms)	491	599	82	1	23	59	13	1.058	10	40	11	22	28	6	67	6.7	1.7	0	20	0	0	0.0
Vanguard (Kitchen Farms)	275	413	67	3	64	2	11	1.064	11	59	36	51	1	9	97	8.8	1.6	0	10	0	0	0.5
MEAN	346	530	65	2	50	15	22	1.063	10	33	30	41	6	15	92	9.3	3.0	13	15	0	4	0.1

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

⁴**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

Table 8. 2018 Russet and Tablestock Variety Descriptions

Russet Variety Descriptions

Entry	Pedigree	2018 Scab Rating*	Characteristics
Caribou Russet (AF3362-1Rus)	Reeves Kingpin x Silverton Russet	0.2	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 2018, PVY susceptible, below average tuber set
Castle Russet (POR06V12-3)	PA00V6-4 x PA01N22-1	0.0	Long, full season russet with dual-purpose potential, resistant to PVY, Pecto., and corky ring spot, moderate dormancy, susceptible to foliar late blight. Highest yielding russet in 2018
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
Mountain Gem (A03158-2TERUS)	A98292-2 x A98104-4	0.0	High yield potential, common scab and tuber late blight resistance, medium maturity, nice dark russet skin type, blocky to long shape
Reveille Russet (ATX91137-1Rus)	Bannock Russet x A83343-12	0.3	Excellent yield potential, common scab tolerant, early bulking, nice uniform dark russeted skin with good general tuber appearance, occasional misshapen tubers observed, long dormancy
Russet Norkotah	ND9526-4Rus x ND9687-5Rus	0.2	Average yield, mid-season maturity, long to oblong tubers, heavy russet skin, low specific gravity

(2018 Russet Varieties cont.)

Entry	Pedigree	2018 Scab Rating*	Characteristics
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 to low specific gravity, PVY, Sencor & Linuron susceptibility
Vanguard (TX08352-5RUS)	TXA549-1Ru x AOTX98137-1Ru	0.1	Nice slightly blocky shape, medium size profile, medium vine vigor and maturity, semi-erect vines, average yield potential
A06021-1TRUS	A99031-1TE x A96013-2	0.5	Medium yield potential, prominent lenticels, common scab tolerance, nice blocky tuber type, light to medium russet skin
A07061-6RUS	Clearwater Russet x Targhee Russet	0.9	Above average yield potential, good internal quality, full season maturity
A071012-4BFRUS	A85331-7 x A01054-4	0.5	Light russet skin, low tuber set with larger tuber size profile, susceptible to blackspot bruise and hollow heart, high specific gravity
A08433-4VRRUS	A02611-1 x AOND95249-1	0.2	Oblong tuber shape with medium russet skin, resistant to shatter bruise, tuber late blight, and common scab, high yield potential
AF5091-8RUS	AF4116-9 x AF4185-1	0.6	A mid-season russet with average yield potential, long to oblong tubers that tend to be large, resistance to blackspot bruise

(2018 Russet Varieties cont.)

Entry	Pedigree	2018 Scab Rating*	Characteristics
AF5179-4RUS	A01601-4 x Highland Russet	1.1	Mid to late maturity, average yields and above average specific gravity, long to oblong tubers that tend to be large, resistance to verticillium wilt
AF5312-1RUS	A86102-6 x CO82142-4	0.3	Dark russet skin, good internal quality, smaller tuber size profile, resistant to tuber internal defects, early to mid-season maturity
AF5406-7RUS	Silverton Russet x A7816-14	0.2	Full season variety, average yield potential
CO05068-1RUS	AWN86514-2 x CO98009-3RU	0.2	Average yield potential, full season maturity, susceptible to hollow heart, higher specific gravity
CO07015-4RUS	Fortress Russet x AC00033-2RU	0.0	Early maturity, oblong tubers with medium russet skin, smaller tuber size profile with 40 percent B size tubers
CO07049-1RUS	AOA95155-7 x AC00594-4RU/Y	0.1	Medium maturity, small tuber size profile, good internal quality
CO09036-2RUS	AO98282-5 x CO03276-4RU	0.2	Average specific gravity, resistant to blackspot bruise, full season maturity
CO10087-4RUS	CO03367-1RU x CO99100-1RU	0.3	Early maturity, high specific gravity, larger tuber size profile, susceptible to hollow heart
CO10091-1RUS	CO03371-4RU x CO98067-7RU	0.6	Resistant to blackspot bruise, above average yield potential

(2018 Russet Varieties cont.)

Entry	Pedigree	2018 Scab Rating*	Characteristics
CW08071-2RUS	Premier Russet x Canela Russet	0.5	Average to high yield potential, blocky shape, resistant to tuber internal defects
WAF10612-1RUS	W6260-1RUS x Silverton Russet	2.3	Average yield potential, excellent internal quality.
W10594-16RUS	Premier Russet x Freedom Russet	0.5	Light russet skin, medium maturity, average yield potential, good internal quality
W10612-8RUS	W6360-1RUS x Russet Norkotah	1.0	Mid-season maturity, hollow heart susceptible, above average yield potential

* 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 potato breeding programs and updated by Potato Outreach Program following evaluations at trial locations throughout Michigan.