

2016 Potato Outreach Program On-Farm Variety Trials

Data Summary: Russet Variety Trials

Table of Contents

1.....	2016 Statewide Russet Potato Line Summary
2-3.....	2016 Tablestock Trial; Crawford Farms; Montcalm County, MI
4.....	2016 Russet Variety Trial; Elmaple Farm; Kalkaska County, MI
5.....	2016 Tablestock Trial; Horkey Brothers; Monroe County, MI
6-7.....	2016 Tablestock Trial; Kitchen Farms, Antrim County, MI
8.....	2016 Russet Variety Trial; Lennard Ag. Co.; LeGrange County, IN
9.....	2016 Tablestock Trial; VanDamme Farms; Delta County, MI
10-11.....	2016 NFPT Main Trial; Walther Farms; St. Joseph County, MI
12.....	2016 NFPT Trial (Added Lines); Walther Farms; St. Joseph County, MI
13.....	2016 Russet Norkotah Mgmt. Trial, Walther Farms, St. Joseph County, MI
14.....	2016 Silverton Russet Mgmt. Trial; Walther Farms, St. Joseph County, MI
15.....	2016 Tablestock Trial; Wilks Farms, Presque Isle County, MI

2016 Statewide Russet Freshpack Potato Variety Trials

Overall Averages- Ten Locations

LINE	CWT/A		PERCENT OF TOTAL ¹					SP GR	RAW TUBER QUALITY ² (%)				COMMON			COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO		HH	VD	IBS	BC	SCAB RATING ³	VINE VIGOR ⁴	VINE MATURITY ⁵	
CO8155-2RU/Y ^d	519	666	78	18	78	0	4	1.066	0	0	0	0	0.0	4.5	2.5	yellow flesh
W9433-1Rus ^{bcddefghij}	504	651	78	7	52	28	14	1.069	3	22	13	0	0.6	3.7	3.3	heat sprouts, knobs in pickouts
Mountain Gem Russet ^{bcddefghij}	498	602	80	11	68	15	6	1.071	9	30	3	0	0.3	3.0	3.5	alligator hide
ND050032-4Rus ^{bcddefghij}	494	601	79	10	63	20	8	1.076	11	33	10	0	0.2	2.7	3.0	alligator hide, light russeted skin, flat blocky tuber shape
CW08221-5Rus ^{bdefgij}	486	621	75	15	59	17	9	1.057	13	12	0	0	0.1	4.0	2.4	dark russeted skin, oval blocky shape, alligator hide, heat sprouts
AF5091-8Rus ⁱ	479	613	78	5	30	48	17	1.053	0	50	0	0	1.5	4.0	3.5	eyebrowning
Reveille Russet ^{bcddefmijg}	479	585	79	9	62	20	10	1.059	0	24	1	0	0.2	2.2	3.0	sl skinning, severe gc and knobs in pickouts
Caribou Russet ^{abcbdefghij}	478	558	84	6	47	38	9	1.065	0	39	20	3	0.6	4.1	3.2	sl alligator hide, light russeted skin, moderate pinkeye
W10612-8Rus ^j	456	591	77	19	72	5	4	1.061	0	10	20	0	0.0	4.0	2.0	
A03141-6Rus ^{bcddefghij}	454	588	77	7	49	28	16	1.078	10	25	1	0	1.0	3.5	4.1	light russeted skin, skinning, knobs and heat sprouts in pickouts
WND8625-2Rus ^{bcddefghij}	440	536	80	13	60	23	4	1.065	6	31	13	0	0.6	3.3	3.2	dark russeted skin, sl skinning
A06862-18VR ^{bcddefghij}	423	609	70	19	61	10	10	1.072	6	29	6	1	1.0	4.1	4.5	moderate alligator hide, light russeted skin, non-uniform tuber shape
W9742-3Rus ^{bcddefghij}	420	531	76	7	54	24	15	1.084	0	20	7	0	0.9	3.6	3.6	pointed tuber shape, light russeted skin
CO08065-2Rus ^{ei}	399	565	70	22	66	5	7	1.080	15	3	12	2	0.6	4.3	3.0	dark russeted skin
A06021-1T ^{abcbdefghij}	391	483	78	14	66	14	5	1.070	8	30	1	1	0.3	3.3	2.3	eyebrowning, dark russeted skin
AF5179-4Rus ^{bcddefgij}	390	508	75	12	57	21	7	1.076	0	23	0	0	1.7	3.0	3.6	alligator hide, heat sprouts
TX08352-5Rus ^{abcbdefghij}	386	491	75	18	66	12	4	1.057	1	26	0	0	0.3	2.8	2.2	medium russeted skin, moderate pinkeye, nice tuber shape
A09001-12TE ^{abcbdefghij}	385	464	77	15	63	16	6	1.076	4	28	1	0	1.2	3.6	3.4	moderate pinkeye, oval blocky shape
A096305-3Rus ^{abcbdefghij}	382	504	74	14	56	20	10	1.072	11	30	4	3	1.8	3.3	3.6	light russeted skin, oblong tuber shape
COTX09022-3RusRE/Y ^{abcbdfij}	376	487	72	21	70	6	4	1.067	1	28	3	0	1.1	3.8	2.5	pink colored eyes, yellow flesh, round tuber shape
Dakota Russet ^{cdghjbet}	370	474	77	15	64	15	6	1.071	2	17	4	0	0.7	2.9	3.5	heavy russeted skin, severe pinkeye, alligator hide
W9850-5Rus ^e	367	698	52	13	46	6	35	1.067	7	13	0	0	0.7	4.5	4.5	bottle-necking, heat sprouts, knobs in pickouts
W10074-3Rus ^{ej}	364	549	66	17	52	14	17	1.061	0	10	0	0	0.4	4.0	2.2	moderate alligator hide
W10594-16Rus ^j	356	555	64	33	64	0	2	1.064	0	0	10	0	0.0	4.0	2.0	
CO08231-1Rus ^{ej}	355	589	60	25	54	6	15	1.073	31	26	10	0	0.7	4.3	3.5	
A02507-2LB ^{abcbdefghij}	353	463	73	15	65	10	10	1.073	0	31	7	0	0.3	2.2	3.8	dark russeted skin, knobs in pickouts
Silverton Russet ^{abcbdefghij}	349	462	77	12	53	25	10	1.059	9	33	0	2	0.3	3.7	3.6	alligator hide, pinkeye
AF4124-7Rus ^{abcbdefghij}	341	485	71	8	49	23	20	1.072	5	29	0	0	0.3	3.8	3.0	light russeted skin, points and knobs in pickouts
Pioneer Russet ^{acdghijf}	336	418	76	12	59	21	9	1.063	3	26	1	0	0.5	3.0	2.3	medium russeted skin, moderate pinkeye
COTX09052-2Rus ^{abcbdefghij}	315	441	69	26	62	9	3	1.063	0	54	0	0	0.3	2.7	2.6	heat sprouts, blocky shape, sl alligator hide
AC96052-1Rus ^{abcbdefghij}	305	420	70	24	65	8	4	1.068	4	23	0	0	0.3	2.9	3.8	dark russeted skin, moderate pinkeye, nice tuber shape
GoldRush Russet ^{bdh}	302	431	69	22	54	14	10	1.066	0	23	0	0	0.0	3.3	2.3	sl alligator hide
Russet Norkotah ^{abcbdefghij}	297	407	69	24	62	9	5	1.061	11	33	4	0	0.6	3.2	1.7	medium russted skin, nice tuber shape, alligator hide, pinkeye
CO05068-1Rus ^d	282	447	63	35	63	0	2	1.083	10	60	0	10	0.5	2.0	4.5	
AF4872-2Rus ^j	275	428	65	10	48	17	25	1.066	0	60	0	0	2.0	4.5	1.5	
CO05175-1Rus ^d	271	429	63	32	59	5	5	1.081	30	50	0	0	0.5	2.5	4.0	
AO03123-2Rus ^{acdfghij}	265	415	63	27	55	10	9	1.074	14	21	3	0	1.0	3.2	3.8	non-uniform tuber type, tr sticky stolons,
W9523-1Rus ⁱ	224	377	60	40	55	5	1	1.055	0	0	0	0	0.0	3.0	2.0	
MEAN	383	520	72	17	59	15	9	1.068	5.9	26.3	4.0	0.6	0.6	3.4	3.1	tr = trace, sl = slight, N/A = not available

2016 Russet Variety Trial Sites

^a Horkey Brothers, Monroe Co.

^b Elmaple Farm; Kalkaska Co.

^c Crawford Farms; Montcalm Co.

^d Kitchen Farms; Antrim Co.

^e Walther Farms (Norkotah); St. Joseph Co. (Replicated)

^f Walther Farms (Silverton); St. Joseph Co. (Replicated)

^g VanDamme Farms; Delta Co.

^h Wilks Farm, Presque Isle Co.

ⁱ NFPT (selected lines replicated); Walther Farms; St. Joseph Co.

^j Lennard Ag. Co.; LaGrange Co. IN

¹SIZE

Bs: < 4.0 oz.

As: 4.0 - 10.0 oz.

OV: > 10 oz.

PO: Pickouts

²TUBER QUALITY

(percentage of tubers out of 10)

HH: Hollow Heart

VD: Vascular Discoloration

IBS: Internal Brown Spot

BC: Brown Center

⁴VINE VIGOR RATING

Ratings: 1 - 5

1: Slow Emergence

5: Early Emergence

(vigorous vine, some flowering)

⁵VINE MATURITY RATING

Ratings: 1 - 5

1: Early (vines completely dead)

5: Late (vigorous vine, some flowering)

³COMMON SCAB RATING

0.0: Complete absence of surface or pitted lesions

1.0: Presence of surface lesions

2.0: Pitted lesions on tubers, though coverage is low

3.0: Pitted lesions common on tubers

4.0: Pitted lesions severe on tubers

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

2016 Tablestock Potato Variety Trial Crawford Farms, Montcalm County, MI

Harvest 19-Oct-16 148 Days
DD, Base 40⁶ 3242

		CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ² (%)				COMMON SCAB	VINE	VINE	COMMENTS	
		US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR	HH	VD	IBS	BC	RATING ³	VIGOR ⁴		MATURITY ⁵
Russet Type	A03141-6Rus	565	611	92	5	68	25	3	1.079	50	40	0	0	1.0	2.5	4.5	
	Mountain Gem Russet	544	589	92	1	90	3	2	1.068	20	60	0	0	0.0	2.0	3.5	
	Reveille Russet	519	624	83	8	75	9	9	1.058	0	40	0	0	0.5	0.5	3.5	
	Caribou Russet	470	495	95	2	71	24	3	1.068	0	60	0	0	1.5	2.5	4.0	
	ND050032-4Rus	469	528	89	9	82	6	2	1.087	0	50	10	0	1.0	2.0	3.0	
	AF5179-4Rus	464	535	87	5	76	11	8	1.075	0	50	0	0	1.0	2.5	4.5	
	A02507-2LBRus	452	545	83	12	73	10	5	1.076	0	40	0	0	0.5	1.5	4.0	
	COTX09022-3RusRE/Y	448	511	88	11	83	5	1	1.073	0	0	0	0	2.0	3.0	3.0	pink eyes
	A09001-12TERus	423	480	88	8	88	0	4	1.072	0	0	0	0	0.0	2.5	2.5	
	W9433-1Rus	421	482	87	8	78	10	5	1.064	0	40	0	0	1.5	2.0	3.0	moderate rot
	A06862-18VRRus	395	474	83	12	83	0	5	1.074	0	40	0	0	0.5	3.5	4.5	
	COTX09052-2Rus	385	440	87	12	79	9	1	1.061	0	80	0	0	0.5	1.0	3.0	
	AC96052-1Rus	373	443	84	16	71	13	0	1.070	0	50	0	0	0.0	2.0	3.5	
	W9742-3Rus	352	400	88	10	83	5	2	1.085	0	40	0	0	1.0	2.5	3.5	
	Silverton Russet	349	398	88	7	74	14	5	1.066	40	60	0	20	0.5	2.0	3.0	alligator hide
	WND8625-2Rus	332	369	90	6	78	12	4	1.061	0	60	0	0	2.5	1.5	3.5	
	Dakota Russet	318	359	89	9	74	14	2	1.064	0	50	0	0	0.0	2.0	3.5	
	TX08352-5Rus	306	364	84	14	80	4	2	1.049	0	20	0	0	1.5	2.0	1.5	
	AF4124-7Rus	304	351	87	11	87	0	2	1.068	0	70	0	0	0.0	2.5	2.5	
	AO03123-2Rus	262	368	71	23	66	5	6	1.077	20	40	0	0	0.5	3.0	4.0	
	A06021-1TRus	248	322	77	23	63	14	0	1.069	10	40	0	0	0.5	2.0	2.0	
	A096305-3Rus	240	360	67	18	56	11	15	1.076	0	50	0	0	2.5	2.5	3.5	
	Pioneer Russet	206	245	84	13	67	17	3	1.050	0	40	0	0	2.0	1.5	1.0	
	Russet Norkotah	165	209	79	21	79	0	0	1.060	10	40	0	0	2.0	2.0	1.0	
Red Skin Type	Red Carolina	629	705	89	11	89	0	0	1.055	0	40	0	0	2.0	3.5	3.0	
	Dark Red Chieftan	545	593	92	7	86	6	2	1.058	0	70	0	0	0.5	2.0	3.5	
	Red Lasoda	457	549	83	11	61	22	6	1.053	0	30	0	0	0.0	4.0	3.0	
	ND7132-1R	450	506	89	8	77	12	3	1.057	0	30	0	0	2.0	3.0	3.5	
	Red Endeavor	441	548	81	19	76	4	0	1.057	0	10	0	0	0.0	3.5	2.5	
	Red La Soda NY	402	449	89	5	85	4	6	1.050	0	50	0	0	0.0	3.0	2.0	
	CO098012-5R	394	506	78	22	78	0	0	1.068	0	40	0	0	0.0	2.0	3.5	
	Red La Soda 10-3	375	435	86	8	75	11	5	1.051	0	40	10	0	3.0	2.0	2.0	
	AF4985-1R	360	443	81	13	78	3	5	1.048	0	20	10	0	0.0	2.0	2.0	
	Dark Red Norland	344	384	89	10	86	3	1	1.054	0	40	0	0	0.0	3.0	1.0	sl silver surf
	Nordonna	343	389	88	8	83	5	4	1.050	0	30	0	0	2.0	2.0	2.0	sl silver scurf
	AF4831-2R	331	426	78	22	78	0	0	1.049	0	0	0	0	0.0	1.5	3.5	
	Red Norland	329	405	81	15	72	9	3	1.048	0	40	0	0	0.0	3.0	1.0	
	ND6002-1R	324	378	86	14	73	13	0	1.051	0	40	0	0	0.5	2.5	1.5	
	MSW343-2R	306	355	86	14	86	0	0	1.055	0	40	0	0	1.5	2.0	1.0	
	Dakota Ruby	296	395	75	24	75	0	1	1.068	0	20	0	0	0.0	2.0	2.0	moderate silver scurf
	NY159	288	371	78	20	78	0	2	1.041	0	40	0	0	2.0	2.5	1.5	
	Merlot	248	419	59	34	59	0	7	1.069	0	50	0	20	2.0	2.5	3.0	
	Modoc	225	320	70	30	70	0	0	1.046	10	50	0	0	1.5	2.5	1.5	
	Ciklamen	83	286	29	70	29	0	1	1.067	0	70	0	0	2.0	3.0	2.5	

Continued on Next Page

	LINE	CWT/A		PERCENT OF TOTAL ¹						RAW TUBER QUALITY ² (%)				SCAB	VINE	VINE	COMMENTS
		US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR	HH	VD	IBS	BC	RATING ³	VIGOR ⁴	MATURITY ⁵	
Yellow Skin Type	Wega	536	604	89	10	88	1	1	1.052	0	40	0	0	0.5	2.5	3.0	pink colored eyes
	MSV093-1Y	528	609	87	9	76	11	4	1.079	0	80	0	0	0.5	3.0	4.0	
	Soraya	462	535	86	7	86	0	6	1.053	0	30	0	0	0.5	2.5	3.0	
	NY149	405	509	80	16	80	0	5	1.061	0	70	0	0	2.0	4.0	2.5	
	Lehigh	390	410	95	1	89	6	4	1.070	20	60	0	0	1.0	2.0	2.5	
	Julinka	382	489	78	13	78	0	9	1.059	0	60	0	0	2.0	3.5	1.5	
	Satina	361	395	91	9	91	0	0	1.055	0	50	20	0	1.5	3.0	3.0	
	Vivianna	329	459	72	27	72	0	2	1.054	0	50	0	0	0.5	3.5	1.5	
	Alegria	324	369	88	12	88	0	0	1.061	0	30	0	0	0.5	3.5	2.0	
	NYL30-5	282	426	66	34	66	0	0	1.062	0	80	0	0	0.0	3.5	2.0	
	Oneida Gold	270	379	71	27	71	0	2	1.066	0	20	0	0	0.0	2.5	4.0	
Smart	213	330	64	31	64	0	4	1.053	0	20	0	0	0.5	2.0	2.0		
Malou	209	315	66	34	66	0	0	1.047	0	90	0	0	1.0	3.0	1.0		
Novelty Type	MST386-1P	478	545	88	3	53	35	10	1.070	0	30	0	0	0.0	2.5	4.0	
	W9962-1RY1Y	409	446	92	8	87	5	0	1.050	0	70	0	0	0.5	2.0	3.0	
	MSR226-ARR	304	442	69	31	65	4	0	1.062	0	50	0	0	0.0	2.0	2.5	
	MSR226-1RR	283	365	77	23	77	0	0	1.059	0	20	0	0	0.0	2.0	4.5	
	MSX324-1P	278	396	70	27	70	0	3	1.072	0	40	0	0	0.0	3.0	1.5	
	Blue Belle	274	462	59	18	59	0	23	1.069	0	40	0	0	2.0	3.0	4.5	
	MSX001-4WP	261	288	91	5	74	16	4	1.050	0	70	0	0	0.0	2.5	1.0	
	MSW316-3PY	259	364	71	10	71	0	18	1.064	0	20	0	0	2.5	3.5	3.5	
	Amarosa	121	345	35	64	35	0	1	1.054	0	30	0	0	0.0	1.5	2.5	
Round White Type	Reba	519	536	97	3	79	18	0	1.061	10	40	0	0	0.0	3.0	3.0	
MSV179-1	471	493	96	3	87	8	2	1.070	0	20	0	0	1.5	2.0	3.5		
MEAN		361	439	81	15	75	6	3	1.062	3	43	1	1	0.9	2.5	2.7	tr = trace, sl = slight, NA = not available SED = stem end defect, gc = growth crack

¹SIZE
Bs: < 1 7/8"
As: 1 7/8" - 3.25"
OV: > 3.25"
PO: Pickouts

²TUBER QUALITY
(percentage of tubers out of 10)
HH: Hollow Heart
VD: Vascular Discoloration
IBS: Internal Brown Spot
BC: Brown Center

³COMMON 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

⁴VINE VIGOR RATING
Date: 22-Jun-16
Ratings: 1 - 5
1: Slow Emergence
5: Early Emergence (vigorous vine, some flowering)

⁵VINE MATURITY RATING
Date: 26-Aug-16
Ratings: 1 - 5
1: Early (vines completely dead)
5: Late (vigorous vine, some flowering)

Planted: 24-May-16
Vines Killed: 9-Sep-16
Days from Planting to Vine Kill: 108
Seed Spacing: 10"
Fumigation: No

⁶MAWN STATION: Entrican
Planting to Vine Kill

2016 Russet Variety Trial

Elmaple Farms, Kalkaska County, MI

Harvest 11-Oct-16 154 Days

DD, Base 40⁶ 3838

	CWT/A		PERCENT OF TOTAL ¹						RAW TUBER QUALITY (%) ²				COMMON SCAB	VINE	VINE	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR	HH	VD	IBS	BC	RATING ³	VIGOR ⁴	MATURITY ⁵	
ND050032-4Rus	624	666	94	5	69	25	2	1.071	0	60	0	0	0.0	3.0	3.0	netted russet skin type, flat blocky tuber type
W9433-1Rus	610	660	92	5	46	47	3	1.070	0	40	10	0	1.0	4.0	3.5	
AF3362-1Rus	554	606	91	8	61	30	1	1.071	0	50	0	0	0.5	4.5	3.0	flat block tuber type, nice light russet skin type
CW08221-5Rus	552	648	85	12	64	21	3	1.056	0	10	0	0	0.0	4.0	2.0	heavy dark russet skin, oval blocky tuber type
Reveille Russet	538	601	90	10	62	27	0	1.058	0	40	0	0	0.0	2.5	3.5	tr pink eye
WND8625-2Rus	522	567	92	8	69	23	0	1.066	0	60	0	0	0.0	3.5	2.5	
A03158-2TERus	518	633	82	13	76	6	5	1.069	10	30	0	0	0.5	3.5	3.0	
A09001-12TERus	492	619	80	12	62	18	8	1.077	10	60	0	0	2.5	4.0	2.0	moderate pinkeye
A06021-1TRus	491	606	81	10	61	20	9	1.068	0	40	0	0	1.0	3.0	1.5	
TX08352-5Rus	478	576	83	15	71	12	2	1.056	0	30	0	0	0.0	3.0	1.5	
A06862-18VRRus	476	587	81	13	65	17	6	1.077	10	0	0	10	2.0	4.5	4.0	
COTX09022-3RusRE/Y	471	562	84	16	79	5	0	1.070	0	0	0	0	0.0	4.5	2.5	
Russet Norkotah	465	553	84	11	62	22	5	1.059	20	50	10	0	0.5	3.5	1.5	tr pink eye
AF4124-7Rus	463	566	82	8	45	37	10	1.074	0	30	0	0	0.5	4.5	2.5	tr pink eye
W9742-3Rus	450	519	87	4	52	35	9	1.084	0	30	10	0	0.0	4.0	3.5	pointed tubular tuber type
Dakota Russet	431	547	79	13	57	22	8	1.070	0	10	0	0	2.0	3.5	3.0	
A03141-6Rus	415	489	85	7	62	23	8	1.079	0	40	0	0	2	3.0	3.0	
Silverton Russet	414	454	91	7	58	33	2	1.063	0	10	0	0	0.0	4.0	3.0	
A096305-3Rus	412	484	85	12	72	13	3	1.080	30	20	0	0	3.0	3.5	3.0	tubular tuber type, sl pinkeye
GoldRush Russet	360	496	73	21	56	17	7	1.067	0	30	0	0	0.0	3.5	1.5	
COTX09052-2Rus	360	479	75	25	70	5	0	1.062	0	50	0	0	0.0	2.0	1.5	mid size uniform blocky tuber type
AF5179-4Rus	337	426	79	18	56	23	3	1.071	0	30	0	0	2.5	3.5	3.0	
A02507-2LBRus	272	429	63	30	63	0	6	1.078	0	50	0	0	0.5	2.5	3.0	
AC96052-1Rus	240	379	63	33	63	0	3	1.072	0	20	0	0	0.0	3.0	4.5	

MEAN	456	548	83	13	63	20	4	1.070	3.3	32.9	1.3	0.4	0.8	3.5	2.7	tr = trace, sl = slight, NA = not available
SED = stem end defect, gc = growth crack																

¹SIZE
Bs: < 4 oz.
As: 4 - 10 oz.
OV: > 10 oz.
PO: Pickouts

²TUBER QUALITY
(percentage of tubers out of 10)
HH: Hollow Heart
VD: Vascular Discoloration
IBS: Internal Brown Spot
BC: Brown Center

⁴VINE VIGOR RATING
Date: 21-Jun-16
Ratings: 1 - 5
1: Slow Emergence
5: Early Emergence (vigorous vine, some flowering)

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

Planted: 10-May-16
Vines Killed: 11-Oct-16
Days from Planting to Vine Kill: 154
Seed Spacing: 10"
Fumigation: Yes

⁶MAWN STATION: Kalkaska
Planting to Vine Kill

³COMMON SCAB RATING
0.0: Complete absence of surface or pitted lesions
1.0: Presence of surface lesions
2.0: Pitted lesions on tubers, though coverage is low
3.0: Pitted lesions common on tubers
4.0: Pitted lesions severe on tubers
5.0: More than 50% of tuber surface area covered in pitted lesions

2016 Freshpack Potato Variety Trial

Horkey Brothers, Monroe County, MI

Harvest 19-Sep-16 143 Days
DD, Base 40⁶ 3121

TUBER TYPE	LINE	CWT/A		PERCENT OF TOTAL ¹					SP GR	RAW TUBER QUALITY ² (%)				COMMON	VINE VIGOR ⁴	VINE MATURITY ⁵	COMMENTS
		US#1	TOTAL	US#1	Bs	As	OV	PO		HH	VD	IBS	BC	SCAB RATING ³			
Russet Type	A06021-1T	291	334	87	10	78	9	2	1.056	0	80	0	0	0.5	3.5	2.0	
	TX08352-5Rus	290	381	76	19	73	3	4	1.044	0	60	0	0	1.0	3.0	2.0	
	A09001-12TE	265	309	86	12	72	13	2	1.060	0	70	0	0	4.0	4.0	4.0	severe scab
	COTX09052-2Rus	247	318	78	18	78	0	4	1.042	0	100	0	0	0.0	3.0	3.5	
	A096305-3Rus	233	332	70	13	62	8	17	1.048	0	90	20	0	4.5	3.5	4.0	
	Pioneer Russet	209	297	70	15	52	18	15	1.063	0	60	0	0	0.0	3.0	2.5	
	COTX09022-3RusRE/Y	207	293	71	25	67	3	4	1.057	0	70	0	0	3.0	3.5	1.5	
	A02507-2LB	197	278	71	13	67	4	17	1.052	0	80	0	0	0.5	2.0	4.0	
	Caribou Russet	189	244	77	3	34	43	20	1.042	0	80	70	20	2.0	3.5	4.0	severe rot
	AF4124-7Rus	184	262	70	5	57	13	24	1.058	0	80	0	0	1.0	3.5	3.5	rot, misshapened pickouts
	AC96052-1Rus	134	187	72	19	64	8	10	1.049	0	80	0	0	1.5	2.0	4.0	
	Russet Norkotah	124	199	62	26	62	0	11	1.046	0	60	10	0	2.0	3.0	1.0	
Yellow Skin Type	Silverton Russet	123	163	76	11	66	9	13	1.041	0	90	0	0	0.5	2.5	4.0	severe rot
	AO03123-2Rus	99	179	55	27	55	0	18	1.059	0	10	0	0	3.0	3.0	4.0	knobby, misshapened pickouts
	Lehigh	314	339	93	2	57	36	5	1.054	0	60	0	0	1.5	3.5	2.0	
	Alegria	271	347	78	7	74	5	15	1.056	0	90	10	0	2.0	4.0	1.5	dark yellow flesh
	Julinka	219	371	59	21	59	0	19	1.054	0	70	0	0	3.0	4.0	1.5	
	Soraya	197	371	53	10	53	0	37	1.063	0	100	0	0	0.0	4.0	2.0	dark yellow flesh
	NY149	164	357	46	35	46	0	19	1.048	0	100	0	0	0.0	3.5	2.0	
	MSV093-1Y	153	323	47	10	39	8	43	1.055	0	50	0	0	2.0	N/A	5.0	
	Malou	136	267	51	49	51	0	0	1.046	0	80	0	0	3.0	4.0	1.0	small round tuber shape
	Satina	125	247	51	9	51	0	40	1.041	0	90	0	0	1.5	4.5	3.5	severe sticky stolons, misshapened tubers
	Wega	117	268	44	26	44	0	30	1.051	0	70	0	0	2.0	3.5	1.0	dark yellow flesh, knobs in pickouts
	NYL30-5	100	324	31	31	31	0	38	1.048	0	100	0	0	2.0	4.0	3.0	conjoined tubers via stems, heat sprouting
Round White Type	MSQ131-A	342	346	99	1	45	54	0	1.044	0	40	40	0	3.0	N/A	2.5	
	Reba	336	356	95	5	69	25	0	1.063	0	40	0	0	1.5	3.0	2.5	
	MSV179-1	254	261	97	1	79	19	2	1.053	0	30	0	0	1.5	2.5	3.0	
Novelty Type	Blue Belle	49	91	54	39	54	0	7	1.036	0	90	0	0	1.5	2.5	5.0	
MEAN		199	287	68	17	59	10	15	1.051	0	72	5	1	1.7	3.3	2.8	tr = trace, sl = slight, N/A = not applicable SED = stem end defect, gc = growth crack

¹SIZE CLASSIFICATIONS

Red/white/yellow

Bs: < 1 7/8"

As: 1 7/8"- 3.25"

OV: > 3.25"

PO: Pickouts

Russets

Bs: < 4 oz.

As: 4 - 10 oz.

OV: > 10 oz.

PO: Pickouts

²TUBER QUALITY

(percentage of tubers out of 10)

HH: Hollow Heart

VD: Vascular Discoloration

IBS: Internal Brown Spot

BC: Brown Center

⁴VINE VIGOR RATING

Date: 9-Jun-16

Ratings: 1 - 5

1: Slow Emergence

5: Early Emergence (vigorous vine, some flowering)

⁵VINE MATURITY RATING

Date: 12-Aug-16

Ratings: 1 - 5

1: Early (vines completely dead)

5: Late (vigorous vine, some flowering)

Planted: 29-Apr-16

Vines Killed: 19-Aug-16

Days from Planting to Vine Kill: 112

Seed Spacing : 10"

Fumigation: No

³COMMON 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

⁶MAWN STATION: Petersburg

Planting to Vine Kill

2016 Freshpack Potato Variety Trial

Kitchen Farms, Antrim County, MI

Harvest 24-Oct-16 154 Days
DD, Base 40⁶ 2785

TUBER TYPE	LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ² (%)				COMMON			COMMENTS	
		US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR	HH	VD	IBS	BC	SCAB RATING ³	VINE VIGOR ⁴		VINE MATURITY ⁵
Red Skin Type	Red Lasoda	683	711	96	4	68	28	0	1.061	0	60	10	10	2.0	3.0	2.5	deep eyes, 2.5 powdery scab, silver scurf, light red skin color
	Red LaSoda 10-3	648	697	93	5	75	18	2	1.061	0	10	0	10	2.0	2.0	2.5	deep eyes, sl silver surf, 1.5 powdery scab
	Red Carolina	570	664	86	5	76	10	9	1.058	0	70	10	0	1.0	3.0	3.0	light red netted skin, moderate silver scurf, powdery scab
	NY159	564	619	91	6	83	8	3	1.056	0	40	0	0	0.5	2.5	3.0	medium red skin, severe silver scurf
	Red Lasoda NY	536	588	91	7	68	24	2	1.058	0	70	0	10	1.5	2.5	3.5	2.5 powdery scab, deep eyes, silver scurf
	Nordonna	503	560	90	8	71	18	2	1.066	10	30	20	10	5.0	2.0	3.5	silver scurf
	Merlot	489	605	81	15	81	0	4	1.071	0	50	0	0	2.0	2.0	3.0	medium yellow flesh, oval to oblong tuber type, medium red skin color
	ND7132-1R	488	603	81	5	81	0	14	1.059	0	20	0	0	0.0	2.5	4.0	1.0 powdery scab, nice red skin color, oval tuber type, silver scurf
	Dakota Ruby	480	638	75	22	75	1	3	1.071	10	90	0	0	1.0	2.0	3.0	sl silver scurf, pointed tuber type
	AF4985-1R	438	522	84	7	81	3	9	1.064	0	10	0	0	0.0	1.5	3.5	
	Dark Red Chieftan	429	489	88	12	88	0	0	1.063	0	80	0	0	1.0	2.0	3.0	severe silver scurf
	CO098012-5R	417	520	80	19	80	0	1	1.075	0	30	0	0	2.0	2.0	3.0	sl silver scurf
	Dark Red Norland	401	487	82	17	79	3	0	1.059	10	30	0	0	0.0	2.5	1.5	silver scurf
	AF4831-2R	366	434	84	12	84	0	4	1.059	0	30	0	0	1.0	2.0	3.5	silver scurf, 1.0 powdery scab
	Red Endeavor	342	464	74	26	74	0	0	1.061	0	40	0	0	0.0	2.5	1.5	silver scurf, uniform round tuber type, light netted skin
	Red Norland	312	390	80	20	80	0	0	1.052	0	20	0	0	0.5	2.5	1.5	3.0 powdery scab, light red skin
	Ciklamen	296	394	75	21	75	0	3	1.084	10	60	0	0	2.5	2.0	4.0	light red skin color, silver surf
ND6002-1R	266	299	89	10	77	12	1	1.065	0	50	0	0	0.0	2.0	1.5	silver scurf	
CO00291-5R	217	264	82	16	82	0	2	1.062	0	100	0	0	2.5	1.0	4.5	dark red skin color, silver scurf	
Modoc	211	351	60	39	60	0	1	1.060	10	50	10	0	1.0	1.0	1.5	reddish pink skin	
MSW343-2R	200	264	76	23	74	2	1	1.055	0	40	0	0	0.5	0.5	1.5	pink skin, sl silver scurf	
Russet Type	Caribou Russet	589	645	91	5	65	26	4	1.078	0	60	0	0	0.5	2.0	3.0	sl alligator hide, moderate pinkeye
	ND050032-4Rus	587	752	78	14	71	7	8	1.083	0	30	0	0	0.0	1.5	3.0	light russet skin, nice tuber type
	CW08221-5Rus	569	696	82	11	70	12	7	1.058	20	20	0	0	0.0	2.5	3.5	heavy russet skin type
	A03141-6Rus	558	625	89	3	63	27	7	1.089	20	40	0	0	2.0	2.0	4.0	light russet skin type
	TX08352-5Rus	506	587	86	13	86	0	1	1.062	0	50	0	0	0.0	1.0	2.5	russeted skin, nice tuber shape
	Russet Norkotah	503	631	80	17	80	0	3	1.069	20	30	10	0	0.0	1.5	2.0	moderate russet skin, nice tuber shape
	A06862-18VRRus	500	599	84	12	75	9	4	1.082	10	70	0	0	1.5	3.0	4.5	light russet skin type
	W9433-1Rus	497	578	86	6	80	6	8	1.078	0	10	0	0	0.0	1.5	4.0	2.0 powdery scab
	A09001-12TE	486	548	89	11	82	7	0	1.084	0	50	0	0	1.0	2.5	3.0	3.0 powdery scab
	A06021-1T	454	564	80	17	74	6	3	1.080	40	40	10	10	0.0	1.5	3.5	slight eyebrowing
	Mountain Gem Russet	452	517	87	11	87	0	2	1.080	20	70	0	0	0.0	1.0	4.0	small tuber type
	Pioneer Russet	447	498	90	9	78	11	1	1.074	0	40	0	0	0.0	1.5	2.5	medium russet skin type
	Reveille Russet	426	563	76	8	57	18	17	1.058	0	20	0	0	0.0	0.0	3.5	severe gc and knobs in pickouts
	W9742-3Rus	413	579	71	8	65	7	21	1.096	0	40	0	0	1.5	1.5	4.0	severe points and pear shaped tubers, light russet skin type, heavy lenticels
	AO03123-2Rus	399	510	78	19	74	5	3	1.085	10	40	10	0	0.0	2.0	4.0	1.0 powdery scab
	A096305-3Rus	391	481	81	17	77	4	2	1.089	10	30	0	0	1.0	2.0	4.0	light russet skin type
	A02507-2LB	380	497	76	14	76	0	10	1.083	0	50	0	0	0.0	1.0	4.0	dark russet skin type, knobs in pickouts
	COTX09052-2Rus	359	464	77	21	75	3	2	1.068	0	90	0	0	0.0	0.5	2.5	sl alligator hide
	GoldRush Russet	358	462	78	20	70	8	3	1.066	0	40	0	0	0.0	2.0	2.5	sl alligator hide
	Dakota Russet	344	432	80	13	80	0	7	1.074	10	0	0	0	1.0	0.5	3.5	heavy russeted skin
	WND8625-2Rus	336	492	68	18	65	3	14	1.077	0	50	0	0	0.0	2.0	3.0	heavy russet skin type
	AF5179-4Rus	297	376	79	15	73	6	6	1.082	0	30	0	0	2.0	2.0	4.0	moderate alligator hide
CO05068-1Rus	282	447	63	35	63	0	2	1.083	10	60	0	10	0.5	2.0	4.5		
AC96052-1Rus	281	361	78	22	78	0	0	1.079	10	20	0	0	0.0	1.0	4.0	small uniform tuber type, dark russet skin type	
Silverton Russet	272	351	78	15	66	11	7	1.063	40	20	0	0	0.5	1.5	4.0	medium dark russet skin, sl alligator hide	
CO05175-1Rus	271	429	63	32	59	5	5	1.081	30	50	0	0	0.5	2.5	4.0		
AF4124-7Rus	256	344	75	8	75	0	17	1.078	0	10	0	0	1.0	1.5	3.0	lightly russeted skin, non uniform tuber type	
COTX09022-3RusRE/Y	214	306	70	28	70	0	1	1.074	0	40	0	0	0.0	2.5	2.0	round tuber shape, pink eyes, yellow flesh, russeted skin	

Continued on Next Page

Yellow Skin Type	Satina	699	844	83	8	81	2	9	1.067	0	50	0	0	1.0	3.0	4.0	1.5 powdery scab, nice yellow skin
	Soraya	623	746	83	3	75	9	13	1.061	0	20	0	0	0.0	2.0	4.0	nice deep yellow flesh and clean skin, oval tuber shape, misshapened pickouts
	MSV093-1Y	582	634	92	7	83	8	1	1.067	0	40	0	0	0.5	3.0	3.0	4.0 powdery scab, flat round tuber type, medium yellow flesh
	Alegria	516	573	90	9	84	6	1	1.067	0	50	10	0	0.0	3.0	4.0	dark yellow flesh, 1.0 powdery scab
	Elfe	504	668	75	17	75	0	8	1.059	0	60	0	0	0.5	3.0	2.0	2.5 powdery scab, some pointed tubers
	NY149	502	637	79	17	79	0	4	1.078	0	30	0	0	0.0	3.0	3.5	2.5 powdery scab, pink eyes, oval shape, moderate yellow flesh
	Jelly	491	560	88	7	87	1	5	1.071	0	90	0	10	0.0	2.5	4.5	medium yellow flesh, uniform oval tuber type
	Yukon Gold	473	522	91	4	77	14	6	1.079	10	40	0	0	1.5	2.0	2.5	1.0 powdery scab, pink eyes, medium yellow flesh
	Julinka	462	584	79	14	79	0	7	1.063	0	80	0	0	2.0	2.5	2.5	dark yellow flesh
	Lehigh	459	555	83	4	76	7	13	1.077	0	20	0	0	0.0	1.0	4.0	medium yellow flesh, light netted skin
	Vivianna	445	594	75	14	75	0	11	1.060	0	20	0	0	1.5	2.5	1.5	oval pear shaped tubers
	Malou	415	496	84	16	80	4	0	1.057	0	90	0	0	2.0	3.0	1.5	
	Wega	372	495	75	17	74	1	8	1.057	0	20	0	0	0.0	1.5	4.0	oblong tuber type, medium yellow flesh
	NYL30-5	357	473	76	24	76	0	1	1.074	0	50	0	0	0.0	3.0	4.0	pink eyes, oval tuber type, 2.5 powdery scab, medium yellow flesh
Round White Type	Smart	333	487	68	26	68	0	6	1.061	0	40	0	0	0.5	2.0	3.5	dark yellow flesh, oblong oval tuber type, nice skin
	Oneida Gold	284	393	72	24	69	3	3	1.068	0	80	0	0	0.5	3.0	4.0	small round uniform tuber type
	Reba	430	469	92	7	88	4	1	1.069	0	20	0	0	1.5	2.0	3.0	blocky oval tuber type, bright skin
	MSV179-1	402	432	93	4	69	24	3	1.067	0	20	0	0	1.0	1.0	3.5	cream colored flesh, nice uniform round shape
Novelty Tuber Type	W9962-1RY/Y	581	627	93	6	82	11	2	1.053	0	50	0	0	0.0	1.5	3.5	lightly netted skin
	MSR226-1RR	328	467	70	26	70	0	4	1.062	0	50	0	0	0.0	1.5	2.5	3.5 powdery scab, red colored flesh, pear shaped
	MSX001-4WP	267	300	89	9	55	34	3	1.055	0	50	0	0	0.0	1.5	2.5	1.0 powdery scab, purple flesh
	MSX324-1P	259	411	63	24	63	0	12	1.073	0	20	0	0	0.0	2.0	2.5	2.0 powdery scab, moderate silver scurf, purple skin
	MSR226-ARR	247	356	69	31	69	0	0	1.068	0	0	0	0	1.0	1.0	4.0	red skin red flesh
	Blue Belle	242	340	71	28	70	2	0	1.065	0	70	0	0	1.5	2.5	4.5	
	Amarosa	222	261	85	15	85	0	0	1.067	0	60	0	0	1.0	0.5	3.5	fingerling tuber type, red skin, red flesh
MEAN		416	511	81	15	75	6	5	1.069	4	43	1	1	0.7	1.9	3.2	tr = trace, sl = slight, NA = not available SED = stem end defect, gc = growth crack

¹SIZE CLASSIFICATIONS

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

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

²TUBER QUALITY (percentage of tubers out of 10)

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

⁴VINE VIGOR RATING

Date: 21-Jun-16
Ratings: 1 - 5
1: Slow Emergence
5: Early Emergence
(vigorous vine, some flowering)

⁵VINE MATURITY RATING

Date: 29-Aug-16
Ratings: 1 - 5
1: Early (vines completely dead)
5: Late (vigorous vine, some flowering)

Planted: 23-May-16

Vines Killed: 30-Aug-16

Days from Planting to Vine Kill: 99

Seed Spacing : 10"

Fumigation: Yes

⁶MAWN STATION: Gaylord

Planting to Vine Kill

³COMMON SCAB RATING

0.0: Complete absence of surface or pitted lesions
1.0: Presence of surface lesions
2.0: Pitted lesions on tubers, though coverage is low
3.0: Pitted lesions common on tubers
4.0: Pitted lesions severe on tubers
5.0: More than 50% of tuber surface area covered in pitted lesions

2016 Russet Variety Trial
Lennard Ag. Co., LaGrange County, IN
Harvest 7-Oct-16 165 Days
DD, Base 40⁶ 3451

	CWT/A		PERCENT OF TOTAL ¹						TUBER QUALITY ²				COMMON SCAB	VINE	VINE	
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR	HH	VD	IBS	BC	RATING ³	VIGOR ⁴	MATURITY ⁵	COMMENTS
Mountain Gem Russet	524	631	83	7	37	46	10	1.069	10	50	0	0	1.0	3.0	3.0	moderate alligator hide
WND8625-2Rus	512	592	86	5	25	61	9	1.062	50	40	70	0	1.0	3.0	3.0	
W9433-1Rus	487	766	64	2	23	41	34	1.068	20	50	30	0	1.0	4.0	3.5	
AF5091-8Rus	479	613	78	5	30	48	17	1.053	0	50	0	0	1.5	4.0	3.5	eyebrowing in pickouts
A096305-3Rus	472	584	81	6	32	49	13	1.070	40	50	0	20	0.5	3.5	3.5	
A09001-12TERus	445	597	74	9	38	36	17	1.076	20	60	0	0	2.0	3.5	4.5	
CW08221-5Rus	427	489	88	8	50	38	4	1.048	70	10	0	0	0.5	4.0	3.0	
AF4124-7Rus	413	556	74	6	40	34	20	1.076	40	30	0	0	0.5	3.5	3.5	
COTX09022-3RusRE/Y	402	503	80	12	63	17	8	1.066	10	40	0	0	1.0	4.0	3.5	moderate pink eye, yellow flesh color
Caribou Russet	399	485	83	2	27	56	15	1.065	0	30	20	0	0.0	4.0	3.0	misshapened pickouts, light russeted skin, sl alligator
ND050032-4Rus	395	545	73	3	29	44	24	1.071	80	10	0	0	0.0	3.0	3.5	hairs
Silverton Russet	393	498	79	13	25	54	8	1.056	0	60	0	0	0.5	4.0	3.0	severe alligator hide
CO08231-1Rus	388	576	67	17	56	11	16	1.074	80	40	0	0	0.5	3.5	3.5	
AF5179-4Rus	371	478	78	12	49	29	10	1.072	0	40	0	0	2.0	3.0	3.5	
A03141-6Rus	367	538	68	10	56	12	22	1.079	10	60	0	0	1.5	3.0	4.0	
A06021-1TRus	360	436	83	8	54	29	9	1.067	20	80	0	0	0.5	3.0	2.5	
Pioneer Russet	350	455	77	7	42	35	16	1.058	20	50	0	0	1.0	3.5	2.5	
AC96052-1Rus	344	517	66	20	43	23	14	1.067	20	40	0	0	0.0	3.0	2.5	knobs in pickouts, heavy russeted skin
COTX09052-2Rus	341	427	80	17	51	29	3	1.063	0	70	0	0	1.5	3.0	2.0	
A06862-18VR	339	591	58	25	48	10	17	1.070	10	50	20	0	2.0	4.0	4.5	knobs in pickouts, moderate alligator hide
Reveille Russet	335	514	65	17	57	8	18	1.059	0	40	0	0	1.0	2.0	3.5	
Dakota Russet	306	395	77	15	61	16	8	1.066	0	60	10	0	1.5	3.0	4.0	
W10074-3Rus	287	453	63	13	47	16	24	1.063	0	30	0	0	1.0	3.5	2.0	moderate alligator hide
AF4872-2Rus	275	428	65	10	48	17	25	1.066	0	60	0	0	2.0	4.5	1.5	
AO03123-2Rus	269	411	65	25	50	15	10	1.079	80	40	10	0	2.0	3.0	3.0	knobs in pickouts, medium russeted skin
TX08352-5Rus	222	347	64	30	50	14	6	1.055	10	30	0	0	0.5	3.0	2.5	
Russet Norkotah	214	300	71	25	62	9	4	1.060	40	70	10	0	1.0	3.5	3.0	
A02507-2LB	193	293	66	18	55	11	16	1.078	0	40	0	0	1.5	2.0	4.0	
W9742-3Rus	168	335	50	6	17	33	44	1.076	0	20	10	0	1.5	3.5	2.5	
CO08065-2Rus	164	269	61	32	53	8	7	1.077	80	0	0	0	0.0	3.5	3.0	severe alligator hide, heavy russeted skin
MEAN	355	488	72	13	44	28	15	1.067	24	43	6	1	1.0	3.4	3.2	tr = trace, sl = slight, NA = not available SED = stem end defect, qc = growth crack

¹SIZE
Bs: < 4 oz.
As: 4 - 10 oz.
OV: > 10 oz.
PO: Pickouts

²TUBER QUALITY
(percentage of tubers per ten cut)
HH: Hollow Heart
VD: Vascular Discoloration
IBS: Internal Brown Spot
BC: Brown Center

⁴VINE VIGOR RATING
Date Taken: 7-Jun-16
Ratings: 1 - 5
1: Slow Emergence
5: Early Emergence (vigorous vine, some flowering)

⁵VINE MATURITY RATING
Date Taken: 12-Aug-16
Ratings: 1 - 5
1: Early (vines completely dead)
5: Late (vigorous vine, some flowering)

Planted: 25-Apr-16
Vines Killed: 25-Aug-16
Days from Planting to Vine Kill: 122
Seed Spacing: 10"
Fumigation: No

³COMMON 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

⁶MAWN STATION: Constantine
Planting to Vine Kill

2016 Freshpack Potato Variety Trial

VanDamme Farms, Delta County, MI

Harvest 3-Oct-16 132 Days
DD, Base 40⁶ 2762

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

SED = stem end defect, gc = growth crack

¹SIZE CLASSIFICATIONS

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

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

²TUBER QUALITY

(percentage of tubers out of 10)

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

⁴VINE VIGOR RATING

Date: 11-Jul-16
Ratings: 1 - 5
1: Slow Emergence
5: Early Emergence (vigorous vine, some flowering)

⁵VINE MATURITY RATING

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

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

⁶MAWN STATION: Escanaba
Planting to Vine Kill

³COMMON SCAB RATING

0.0: Complete absence of surface or pitted lesions
1.0: Presence of surface lesions
2.0: Pitted lesions on tubers, though coverage is low
3.0: Pitted lesions common on tubers
4.0: Pitted lesions severe on tubers
5.0: More than 50% of tuber surface area covered in pitted lesions

2016 Michigan NFPT Trial
Walther Farms - St. Joseph County, MI
Harvest 19-Sep-16 Days 150
DD, Base 40⁵ 3672

Plot#	Line	CWT/A		PERCENT OF TOTAL ¹					SP GR	RAW TUBER QUALITY ² (%)				COMMON SCAB RATING ⁵	ALLIGATOR HIDE RATING ⁶	PINKEYE RATING ⁷	VINE VIGOR ³	VINE MAT ⁴	COMMENTS
		US# 1	Total	US#1	Bs	As	OV	PO		HH	VD	IBS	BC						
35	TXA549-1Ru	836	949	88	8	76	13	4	1.064	0	0	90	0	0.0	2.5	0.5	4.0	2.5	
11	A03921-2	764	878	87	6	70	17	7	1.075	0	30	40	0	2.0	2.0	1.0	4.0	2.5	
9	A08433-4VR	689	909	76	5	62	14	19	1.068	0	0	0	0	0.0	1.0	0.0	4.5	4.0	
38	COTX09022-3RuRE/Y	625	688	91	6	75	16	3	1.067	0	0	0	0	0.0	0.5	0.0	4.5	2.0	pink colored eyes
36	TX08352-5Ru	624	735	85	13	85	0	2	1.055	0	0	0	0	0.5	0.5	1.0	3.0	1.5	
7	A071012-4BF	614	755	81	10	70	11	9	1.081	20	0	0	0	0.0	2.0	2.0	4.5	3.5	
42	W9742-3rus	592	668	89	6	70	18	6	1.078	0	0	0	0	0.0	3.0	1.0	4.5	5.0	
28	AOR06070-1KF	589	761	77	15	75	3	8	1.084	10	0	0	0	1.0	3.0	2.5	4.0	4.0	
31	AOR07781-5	554	697	79	10	65	14	11	1.075	0	0	0	0	0.0	0.0	0.0	5.0	2.5	
6	A07061-6	552	743	74	21	69	5	5	1.065	0	0	0	0	0.0	2.0	0.5	4.5	3.0	
22	ND050032-4Russ	534	632	85	8	63	21	7	1.066	0	20	70	0	0.0	1.0	1.0	3.5	2.0	
13	AF5091-8	524	643	81	8	44	37	11	1.053	0	0	0	0	1.0	1.5	1.5	4.0	2.5	
23	ND070927-2Russ	521	601	87	9	78	9	4	1.069	0	10	0	0	1.0	1.0	0.5	3.5	2.5	
33	AOR08032-1	516	644	80	13	73	7	7	1.071	0	0	0	0	0.0	1.5	0.0	4.0	3.0	
27	A006191-1	495	632	78	12	64	14	9	1.070	0	30	0	0	1.0	1.0	0.0	4.0	2.0	
34	AOR06576-1	477	775	62	16	60	2	23	1.059	0	0	0	0	1.0	2.0	1.0	4.0	3.0	
15	AF5071-2	477	629	76	9	65	11	16	1.069	20	0	0	0	0.0	2.5	1.0	4.0	3.5	
29	POR06V12-3	472	614	77	23	74	3	0	1.075	0	0	0	0	0.0	1.0	0.0	4.0	3.5	
37	COTX09052-2Ru	467	614	76	20	76	0	4	1.061	0	70	0	0	0.0	2.5	0.0	3.5	1.5	
18	AF5469-2	464	776	60	19	60	0	21	1.046	0	0	10	0	0.0	5.0	2.0	4.5	3.0	
14	AF5179-4	446	695	64	9	52	13	27	1.072	0	10	10	0	2.0	2.5	1.5	3.5	3.0	severe heat knobs
12	A06021-1T	443	519	85	13	77	8	2	1.068	0	0	10	0	1.0	2.0	2.0	4.5	2.5	
48	Silverton Russet	441	642	69	16	57	12	16	1.050	0	30	10	0	1.0	2.0	1.0	4.5	3.5	
8	A08422-2VRsto	430	541	79	17	79	0	3	1.064	0	0	10	0	1.0	0.0	1.0	4.0	1.5	
24	ND09193BR-2Russ	423	538	79	18	64	15	3	1.061	0	0	10	0	0.0	2.0	1.0	3.5	2.5	

Continued on next page

Plot#	Line	CWT/A		PERCENT OF TOTAL ¹					SP GR	RAW TUBER QUALITY ² (%)				SCAB RATING ⁵	HIDE RATING ⁶	PINKEYE RATING ⁷	VINE VIGOR ³	VINE MAT ⁴	COMMENTS
		US# 1	Total	US#1	Bs	As	OV	PO		HH	VD	IBS	BC						
41	AW07773-1rus	420	603	70	20	70	0	11	1.066	0	0	0	0	1.5	2.0	0.5	4.5	4.0	
44	AW07791-2rus	416	810	51	16	51	0	32	1.071	0	10	0	0	2.0	3.5	3.5	4.0	4.5	
39	W10594-16rus	415	641	65	33	61	4	2	1.069	0	0	20	0	0.0	0.5	1.0	4.0	2.0	
19	AAF07521-1	401	722	55	8	47	8	36	1.061	0	10	10	10	1.0	3.0	1.0	3.5	4.0	
46	Russet Burbank	385	672	57	18	57	0	24	1.064	0	40	0	0	0.0	1.5	0.0	4.5	1.5	
26	ND092355CR-2Russ	385	458	84	16	73	11	0	1.063	0	10	0	0	0.0	0.0	0.0	3.0	1.5	
47	Russet Norkotah	372	482	77	21	74	4	2	1.060	0	10	0	0	0.0	0.0	0.0	4.0	1.0	
3	CO09205-2RU	370	550	67	22	67	0	10	1.060	0	20	0	0	1.0	1.0	0.0	3.5	4.5	
17	AF5407-13	369	662	56	24	53	2	20	1.056	0	10	20	0	0.0	3.0	1.0	5.0	3.5	
4	A06030-23	354	481	74	20	66	8	6	1.067	0	0	10	0	0.0	0.0	0.0	3.5	1.5	
10	A03141-6	349	576	60	21	60	0	18	1.072	0	20	0	0	2.0	2.0	1.0	4.5	3.0	
21	WAF10073-3RUS	347	621	56	14	42	14	30	1.053	0	0	0	0	0.5	2.0	2.0	3.5	1.5	tr heat sprouting
40	AW06108-1rus	344	583	59	27	59	0	14	1.066	0	10	0	0	0.0	1.5	0.0	4.0	3.0	
1	CO08065-2RU	340	525	65	32	65	0	3	1.076	0	20	10	0	0.0	1.5	1.0	4.5	2.0	
32	AOR07821-1	331	506	65	18	62	4	16	1.071	0	0	0	0	1.5	3.0	2.0	3.5	4.5	
45	Ranger Russet	330	549	60	24	54	7	16	1.076	0	20	0	0	2.0	2.0	2.0	4.0	4.0	
16	AF5406-7	302	594	51	16	44	6	33	1.058	10	0	0	0	0.0	2.0	1.0	4.0	3.0	
20	WAF10051-1RUS	293	428	68	25	65	4	6	1.055	0	10	0	0	0.0	0.5	1.0	3.0	1.0	
43	W9850-5rus	290	483	60	21	50	10	19	1.064	20	0	0	0	1.0	2.0	2.0	4.5	4.0	
25	ND092007R-2Russ	282	365	77	12	63	15	10	1.068	10	0	0	10	0.0	1.5	0.0	3.5	4.5	
30	AO03123-2	255	420	61	27	61	0	12	1.082	40	0	0	0	0.5	2.0	0.5	3.5	2.5	
2	CO09036-2RU	253	645	39	41	39	0	20	1.072	0	40	10	0	0.0	1.0	0.0	4.0	5.0	
5	A061070-3SCR	185	782	24	31	24	0	46	1.066	10	10	0	0	2.0	2.5	0.0	4.5	4.5	severe heat knobs
MEAN		445	634	70	17	63	7	13	1.066	3	9	7	0	0.6	1.7	0.9	4.0	2.9	tr = trace, sl = slight, NA = not available

¹ SIZE BS: < 1 7/8" or < 4 oz. AS: 1 7/8" - 3.25" or 4 - 10 oz. OV: > 3.25" or > 10 oz. PO: Pickouts	² TUBER QUALITY (percentage of tubers out of 10) HH: Hollow Heart VD: Vascular Discoloration IBS: Internal Brown Spot BC: Brown Center	³ VINE VIGOR RATING Date: 2-Jun-15 Ratings: 1 - 5 1: Slow Emergence 5: Early Emergence (vigorous vine, some flowering)	⁴ VINE MATURITY RATING Date: 13-Aug-15 Ratings: 1 - 5 1: Early (Vines Completely Dead) 5: Late (vigorous vine, some flowering)	Planted: 22-Apr-16 Vines Killed: 30-Aug-16 Days from Planting to Vine Kill: 130 Seed Spacing : 10" No fumigation	⁵ 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	⁶ ALLIGATOR HIDE RATING 0.0: No incidence of raised corky skin spots 2.0: Unmarketable corky skin spots 5.0: Multiple, large corky skin lesions, covering a significant amount of surface area of the tuber	⁷ PINKEYE RATING 0.0: No incidence of pink coloration 2.0: Pink coloration, cracking of periderm 5.0: Large, pink, buffy areas	⁸ MAWN STATION: Constantine Planting to Vine Kill
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2016 Michigan NFPT Trial- Added lines
Walther Farms - St. Joseph County, MI
Harvest: 19-Sep-16 **150 Days**
DD, Base 40⁵ **3672**

LINE	CWT/A		PERCENT OF TOTAL ¹					SP GR	RAW TUBER QUALITY ² (%)				COMMON	ALLIGATOR	PINKEYE RATING ⁸	VINE VIGOR ³	VINE MATURITY ⁴	COMMENTS
	US# 1	Total	US#1	Bs	As	OV	PO		HH	VD	IBS	BC	SCAB RATING ⁶	HIDE RATING ⁷				
W9433-1Rus	681	962	71	6	61	10	24	1.063	0	30	40	0	1.0	1.0	2.5	4.5	2.5	heat knobs
Caribou Russet*	632	736	86	3	55	31	11	1.064	3	3	0	0	0.5	2.1	2.0	5.0	3.0	large overall tuber type
A03141-6Rus	631	820	77	10	37	40	13	1.080	0	0	0	0	0.0	0.0	1.0	4.5	3.5	severe knobs and skinning
W9742-3Rus	630	733	86	3	71	15	11	1.081	0	30	30	0	3.0	1.0	2.0	4.5	3.5	
CW08221-5Rus	624	721	87	8	75	12	6	1.054	0	0	0	0	0.0	0.0	0.0	4.5	2.0	
COTX09022-3RusRE/Y*	618	715	86	14	80	7	0	1.065	0	3	23	0	1.5	1.1	0.4	4.5	3.3	pink colored eyes, yellow flesh
A06862-18VRRus	611	951	64	21	64	0	14	1.069	20	20	20	0	1.0	1.5	2.0	4.0	4.5	
Reveille Russet*	595	676	88	6	71	17	6	1.057	0	10	3	0	0.0	0.6	0.0	2.9	2.6	tuber skinning
WND8625-2Rus*	571	671	85	12	72	13	3	1.057	0	18	23	0	0.3	0.6	0.5	4.5	3.5	heat sprouting, skinning
A06021-1T	557	632	88	8	70	18	4	1.076	0	0	0	0	0.0	1.0	1.0	3.5	2.0	
Mountain Gem Russet*	549	711	77	12	66	12	11	1.068	10	15	23	0	0.1	1.1	0.3	3.5	3.4	
CO8155-2RU/Y	519	666	78	18	78	0	4	1.066	0	0	0	0	0.0	0.0	1.5	4.5	2.5	yellow flesh
AC96052-1Rus	498	590	84	14	78	7	1	1.068	10	0	0	0	0.0	1.0	2.0	3.0	3.5	
A02507-2LB	460	558	82	10	82	0	8	1.072	0	0	50	0	0.0	0.0	1.0	2.5	2.5	
W10612-8Rus	456	591	77	19	72	5	4	1.061	0	10	20	0	0.0	1.0	2.0	4.0	2.0	
AF4124-7Rus*	399	553	72	7	54	18	20	1.071	8	5	0	3	0.1	0.8	0.6	4.1	2.9	
Pioneer Russet*	371	486	76	13	62	14	11	1.060	8	5	5	0	0.9	1.8	0.8	3.5	1.5	
W10594-16Rus	356	555	64	33	64	0	2	1.064	0	0	10	0	0.0	2.0	0.5	4.0	2.0	
W10074-3Rus	350	508	69	23	52	17	8	1.063	0	0	0	0	0.0	0.0	1.0	4.0	2.5	
A09001-12TE	348	447	78	15	66	12	7	1.079	0	0	0	0	1.5	1.0	2.5	3.5	3.0	
CO08065-2Rus	338	535	63	30	63	0	6	1.081	20	0	10	0	1.0	0.5	2.0	4.0	3.0	
CO08231-1Rus	325	614	53	34	51	2	13	1.076	10	20	30	0	1.0	1.0	1.5	4.5	3.5	
AO03123-2Rus*	314	512	62	27	60	1	12	1.080	0	13	0	0	1.0	1.1	1.4	3.5	3.5	non uniform tuber type, tr sticky stolons
W9523-1Rus	224	377	60	40	55	5	1	1.055	0	0	0	0	0.0	0.0	1.0	3.0	2.0	
MEAN	486	638	76	16	65	11	8	1.068	4	8	12	0				3.9	2.8	tr = trace, sl = slight, NA = not available SED=stem end defect, gc=growth crack

¹SIZE _____
Bs: < 4 oz.
As: 4 - 10 oz.
OV: > 10 oz.
PO: Pickouts

²TUBER QUALITY
(percentage of tubers out of 10 per rep)
HH: Hollow Heart
VD: Vascular Discoloration
IBS: Internal Brown Spot
BC: Brown Center

³VINE VIGOR RATING
Date: 2-Jun-15
Ratings: 1 - 5
1: Slow Emergence
5: Early Emergence (vigorous vine, some flowering)

⁴VINE MATURITY RATING
Date: 13-Aug-15
Ratings: 1 - 5
1: Early (Vines Completely Dead)
5: Late (vigorous vine, some flowering)

Planted: 22-Apr-16
Vines Killed: 30-Aug-16
Days from Planting to Vine Kill: 130
Seed Spacing : 10"
No fumigation

* Data represents mean of 4 replications

⁶COMMON 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

⁷ALLIGATOR HIDE RATING
0.0: No incidence of raised corky
2.0: Unmarketable corky skin
5.0: Multiple, large corky skin lesions, covering a significant amount of surface

⁸PINKEYE RATING
0.0: No incidence of pink coloration
2.0: Pink coloration, cracking of periderm
5.0: Large, pink, buffy areas

⁵MAWN STATION: Constantine
Planting to Vine Kill

2016 Norkotah Russet Tablestock Potato Variety Trial

Walther Farms, St. Joseph County, MI

Harvest 14-Sep-16 145 Days

DD, Base 40⁶ 3672

LINE	CWT/A		PERCENT OF TOTAL ¹					SP GR*	RAW TUBER QUALITY ² (%)				COMMON SCAB RATING ³	PINKEYE RATING	ALLIGATOR HIDE RATING	VINE VIGOR ⁴	VINE MATURITY ⁵	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO		HH	VD	IBS	BC						
Reveille Russet	607	706	86	6	66	20	9	1.057	0	13	7	0	0.2	0.0	0.8	2.5	2.0	slight skinning
CW08221-5Rus	563	764	73	14	63	10	13	1.053	0	3	0	0	0.0	0.3	0.3	4.5	2.0	heavy russetting, bottle necking, heat sprout knobbing
TX08352-5Rus	560	647	87	12	72	14	5	1.060	0	7	0	0	0.0	0.3	0.8	2.5	1.5	uniform tuber type, medium dark russeted skin
W9433-1Rus	559	775	73	6	57	15	21	1.065	3	17	27	3	0.5	0.0	0.8	4.5	3.5	bottle-necking, heat sprouting, knobbing, slight skinning
Caribou Russet	555	700	79	3	50	29	18	1.061	0	13	77	3	0.0	0.7	2.3	5.0	2.5	
A06021-1T	551	658	84	9	74	10	7	1.071	3	0	0	0	0.2	0.7	1.8	3.5	2.5	medium dark russeted skin
W9742-3Rus	537	684	78	7	58	20	15	1.080	0	13	10	0	1.2	1.5	1.7	4.5	4.0	pointed pear shaped tubers
A096305-3Rus	533	728	74	13	51	23	14	1.070	3	10	0	3	1.5	1.7	2.5	4.0	3.5	very tubular tuber type, bottle necking
ND050032-4Rus	517	662	78	11	67	11	11	1.067	7	40	57	0	0.2	1.8	1.8	3.5	2.0	
A02507-2LB	469	604	77	9	66	12	15	1.071	0	0	15	0	0.0	1.0	2.8	2.5	3.5	
CO08065-2Rus	459	595	77	14	68	9	8	1.079	10	7	13	3	0.2	0.7	2.7	4.5	3.0	dark russeted skin
W10074-3Rus	454	686	66	15	57	10	20	1.058	0	0	0	0	0.2	0.7	1.0	4.5	2.0	
Dakota Russet	447	576	78	14	62	15	9	1.077	0	7	13	3	0.2	1.3	1.5	3.0	2.5	
Russet Norkotah	444	563	79	16	67	12	6	1.061	0	0	0	0	0.0	0.2	0.7	3.5	1.0	uniform tuber type, dark russeted skins
Silverton Russet	444	597	75	11	58	17	15	1.057	3	13	3	0	0.0	1.7	3.2	5.0	4.0	
A09001-12TE	413	480	86	10	66	20	4	1.075	0	7	0	0	0.3	1.8	1.5	4.0	4.0	oval blocky shaped tubers
A06862-18VRRus	405	599	68	24	66	2	8	1.064	0	20	0	0	1.3	0.7	2.3	4.0	5.0	non-uniform tuber type
AF5179-4Rus	368	626	69	10	59	9	4	1.071	0	3	0	0	2.5	0.7	2.8	3.5	3.5	heat sprouting, knobbing, russeted
W9850-5Rus	367	698	52	13	46	6	35	1.067	7	13	0	0	0.7	0.8	2.0	4.5	4.5	bottle-necking, heat sprouts, knobbing
AC96052-1Rus	360	492	73	21	68	5	6	1.064	0	0	0	0	0.0	0.0	1.8	3.5	4.0	heavy non-uniform dark russetting
A03141-6Rus	354	622	57	9	40	17	34	1.071	3	23	10	0	1.2	0.0	1.7	4.0	3.5	severe skinning
CO08231-1Rus	353	577	61	24	56	5	15	1.068	3	17	0	0	0.7	0.0	2.0	5.0	3.5	
COTX09052-2Rus	353	562	62	25	59	4	12	1.060	0	20	0	0	0.3	1.0	1.7	3.5	1.5	heat sprouting
AF4124-7Rus	299	626	48	9	37	10	43	1.071	3	7	0	0	0.3	0.3	0.7	4.5	2.5	heat sprouting, knobbing
MEAN	457	634	72	13	60	13	14	1.067	2	11	10	1	0.5	0.7	1.7	3.9	3.0	tr = trace, sl = slight, NA = not available
ANOVA P-value	<0.0001	<0.0001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.19	0.0058	<0.0001	0.70	0.0006	0.1770	0.0001			gc=growth crack
LSD	112	102		5.0	10.6	7.8	7.9	0.007	NA	17.3	16.8	4.4	1.0	NA	1.2			

¹SIZE
Bs: < 4.0 oz.
As: 4.0 - 10.0 oz.
OV: > 10 oz.
PO: Pickouts

²TUBER QUALITY
(percentage of tubers out of 10)
HH: Hollow Heart
VD: Vascular Discoloration
IBS: Internal Brown Spot
BC: Brown Center

⁴VINE VIGOR RATING
Date: 7-Jun-16
Ratings: 1-5
1: Slow Emergence
5: Early Emergence (vigorous vine, some flowering)

⁵VINE MATURITY RATING
Date: 19-Aug-16
Ratings: 1 - 5
1: Early (vines completely dead)
5: Late (vigorous vine, some flowering)

³COMMON 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
5.0: More than 50% of tuber surface area covered in pitted lesions

Planted: 22-Apr-16
Vines Killed: 30-Aug-16
Days from Planting to Vine Kill: 130
Seed Spacing: 10"
Fumigation: Yes

⁶MAWN STATION: Constantine
Planting to Vine Kill

2016 Silverton Russet Tablestock Potato Variety Trial Walther Farms, St. Joseph County, MI

Harvest 3-Oct-16 166 Days

DD, Base 40⁶ 3356

LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ² (%)					COMMON SCAB RATING ³	VINE VIGOR ⁴	VINE MATURITY ⁵	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR*	HH	VD	IBS	BC				
WND8625-2Rus	468	677	53	28	45	23	4	1.057	0	7	10	0	0.7	4.5	2.8	
Reveille Russet	460	606	57	15	45	31	9	1.057	0	40	0	0	0.2	3.0	1.3	moderate pinkeye
Mountain Gem Russet	439	645	45	20	60	8	12	1.064	3	13	0	0	0.0	3.5	1.8	
Caribou Russet	430	587	55	17	42	31	10	1.061	0	57	33	3	0.7	4.8	2.0	
W9742-3Rus	415	565	55	15	40	32	12	1.081	0	3	0	0	0.2	4.0	2.6	moderate pinkeye
A02507-2LB	408	585	45	21	55	15	9	1.069	0	47	0	0	0.0	3.0	3.5	
A06021-1T	408	572	44	21	61	10	9	1.069	3	17	0	0	0.3	4.2	1.8	
AF5179-4Rus	395	551	49	16	49	22	12	1.072	0	7	0	0	2.2	3.3	2.0	
A096305-3Rus	387	669	43	22	41	16	21	1.068	0	23	10	0	1.5	4.0	2.5	oblong tuber type
ND050032-4Rus	386	582	42	21	56	11	13	1.071	0	60	10	0	0.2	3.3	2.0	tr pinkeye, gc
W9433-1Rus	383	644	49	15	31	29	25	1.067	0	10	10	0	0.7	4.5	2.1	
TX08352-5Rus	333	572	34	35	54	3	7	1.060	0	23	0	0	0.0	3.2	1.7	severe pinkeye
A09001-12TE	313	323	36	27	51	11	11	1.072	7	30	10	0	0.7	4.3	2.6	moderate pinkeye
Dakota Russet	312	556	42	33	30	26	10	1.068	3	7	7	0	0.2	3.6	2.8	severe pinkeye
Pioneer Russet	311	437	36	20	61	10	9	1.064	0	17	0	0	0.0	3.1	1.0	moderate pinkeye
AF4124-7Rus	286	624	34	15	31	15	39	1.072	0	50	0	0	0.0	4.5	2.5	
AC96052-1Rus	279	515	31	45	45	8	1	1.061	3	13	0	3	0.7	3.5	3.5	moderate pinkeye
COTX09022-3RusRE/Y	269	517	28	38	48	4	9	1.068	0	47	0	0	0.0	4.7	1.7	pink colored eyes
Silverton Russet	254	681	27	29	31	6	34	1.054	0	23	0	0	0.3	5.0	3.2	
COTX09052-2Rus	244	486	25	47	49	2	3	1.066	0	57	0	0	0.0	4.2	1.3	
Russet Norkotah	234	462	27	47	42	8	3	1.063	10	23	0	0	0.0	4.0	1.2	
CW08221-5Rus	218	500	26	38	23	12	28	1.064	3	40	0	0	0.0	4.5	2.1	alligator hide, gc
AO03123-2	209	560	25	46	26	11	17	1.072	0	23	3	0	0.7	3.8	2.7	
A06862-18VRRus	206	647	20	40	32	0	29	1.057	0	37	10	0	0.7	4.2	4.3	
MEAN	335	677	39	28	44	14	14	1.066	1	28	4	0	0.4	3.9	2.3	tr = trace, sl = slight, NA = not available
ANOVA P-value	<0.0001	0.02	<0.0001	<0.0001	0.009	0.005	<0.0001	-	0.276	<0.0001	0.001	0.48	0.01	<0.0001	<0.0001	gc=growth crack
LSD	103	181	14.2	11.0	21.5	18.1	10.1	-	NA	26	12.7	NA	1.1	0.50	0.67	

¹SIZE

Bs: < 4.0 oz.
As: 4.0 - 10.0 oz.
OV: > 10 oz.
PO: Pickouts

²TUBER QUALITY (percentage of tubers out of 10)

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

⁴VINE VIGOR RATING

Date: 7-Jun-16
Ratings: 1-5
1: Slow Emergence
5: Early Emergence (vigorous vine, some flowering)

⁵VINE MATURITY RATING

Date: 19-Aug-16
Ratings: 1 - 5
1: Early (vines completely dead)
5: Late (vigorous vine, some flowering)

Planted: 20-Apr-16
Vines Killed: 19-Aug-16
Days from Planting to Vine Kill: 121
Seed Spacing: 10"
Fumigation: Yes

⁶MAWN STATION: Constantine
Planting to Vine Kill

³COMMON SCAB RATING

0.0: Complete absence of surface or pitted lesions
1.0: Presence of surface lesions
2.0: Pitted lesions on tubers, though coverage is low
3.0: Pitted lesions common on tubers
4.0: Pitted lesions severe on tubers
5.0: More than 50% of tuber surface area covered in pitted lesions

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

Harvest 10-Oct-16 139 Days
DD, Base 40⁶ 2658

TUBER TYPE	LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ² (%)				COMMON		VINE VIGOR ⁴	VINE MATURITY ⁵	COMMENTS	
		US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR	HH	VD	IBS	BC	SCAB RATING ³				
Russet Type	Dakota Russet	523	592	88	5	68	21	7	1.066	0	0	0	0	1.0	4.5	4.0	alligator hide	
	W9433-1Rus	491	567	87	11	57	30	3	1.064	0	0	0	0	0.0	5.0	4.0		
	Mountain Gem Russet	487	567	86	13	80	6	1	1.068	0	0	0	0	0.5	4.5	4.5		
	Caribou Russet	466	563	83	8	36	47	9	1.060	0	40	0	0	0.0	5.0	2.5		
	TX08352-5Rus	453	550	82	12	58	24	5	1.057	0	10	0	0	0.0	4.5	3.0		
	W9742-3Rus	432	522	83	6	57	26	11	1.081	0	0	0	0	0.0	5.0	4.5		
	ND050032-4Rus	430	497	86	11	62	24	3	1.069	0	10	0	0	0.0	3.5	4.0		
	Reveille Russet	425	494	86	7	69	17	7	1.058	0	10	0	0	0.0	3.0	3.5		
	Pioneer Russet	419	491	85	8	68	17	7	1.059	0	0	0	0	0.0	4.5	4.0		
	Silverton Russet	388	451	86	13	64	22	1	1.058	0	20	0	0	0.5	4.5	4.5		moderate pinkeye, alligator hide
	COTX09052-2Rus	377	516	73	26	67	6	1	1.071	0	20	0	0	0.0	4.0	4.0		
	A06862-18VR	360	446	81	15	62	19	4	1.071	0	20	0	0	0.0	4.5	5.0		
	Russet Norkotah	359	490	73	18	54	20	9	1.058	0	20	0	0	0.0	4.5	3.5		
	AF4124-7Rus	355	496	72	6	31	41	22	1.063	0	10	0	0	0.0	5.0	4.0	pointed tuber type	
	WND8625-2Rus	337	425	79	19	73	6	2	1.061	0	10	0	0	0.0	4.5	4.0		
	AC96052-1Rus	323	427	76	23	70	5	1	1.064	0	10	0	0	0.5	4.5	4.0		
	A03141-6Rus	314	459	68	7	48	21	25	1.070	0	0	0	0	0.0	5.0	5.0	knobs and heat sprouting	
	A02507-2LB	286	361	79	13	67	13	8	1.065	0	0	0	0	0.0	3.0	4.5		
	AO03123-2Rus	274	420	65	30	51	14	5	1.065	0	0	0	0	0.5	4.5	5.0		
	A096305-3Rus	270	340	79	19	58	22	1	1.064	20	0	10	0	1.5	4.0	4.0		
A06021-T	244	339	72	19	63	9	9	1.065	0	0	0	0	0.0	4.5	3.0			
A09001-12TE	213	333	64	35	55	9	1	1.070	0	0	0	0	0.5	5.0	3.5			
Goldrush Russet	187	335	56	24	37	19	20	1.063	0	0	0	0	0.0	4.5	3.0			
Red Type	Red Lasoda 10-3	579	612	95	2	56	39	3	1.056	0	0	10	0	0.0	4.5	3.0		
	NY159	531	552	96	4	81	15	0	1.051	0	0	0	0	0.0	4.5	3.0		
	ND7132-1R	484	565	86	4	67	18	10	1.050	0	40	0	0	0.0	4.5	4.0	sticky stolons	
	NorDonna	483	528	91	6	78	13	2	1.061	0	0	0	0	0.0	4.5	4.0		
	Red Lasoda	478	513	93	5	52	41	2	1.056	0	0	0	0	0.0	4.5	3.5		
	Dark Red Chieftain	448	464	96	4	71	25	0	1.053	0	40	0	0	0.0	3.5	5.0	good overall appearance, netted skin	
	Dakota Ruby	427	502	85	13	76	9	2	1.057	0	0	0	0	0.0	3.5	2.5		
	ND6002-1R	427	457	93	7	80	14	0	1.056	0	0	0	0	0.0	4.0	4.0		
	Red Lasoda NY	398	435	92	5	53	38	3	1.050	0	0	10	0	0.0	4.5	3.0	deep apical eyes	
	Red Norland	384	407	94	5	79	15	1	1.047	0	0	0	0	0.0	4.5	2.5		
	Red Endeavor	372	408	91	9	74	17	0	1.049	0	0	0	0	0.0	4.5	3.0		
	CO00291-5R	338	393	86	8	79	7	6	1.050	0	10	0	0	0.0	4.0	2.0	heat sprouting, knobs in pickouts	
	Dark Red Norland	333	372	90	8	83	7	2	1.051	0	20	0	0	0.0	4.5	3.0		
Modoc	321	395	81	12	79	2	7	1.048	0	0	0	0	0.0	3.5	2.0	pear shaped pickouts		
Yellow Type	Lehigh	569	590	96	2	47	49	2	1.057	0	10	0	0	1.0	4.5	3.5		
	Satina	560	580	97	3	73	23	0	1.058	0	0	0	0	1.0	4.5	5.0		
	Soraya	558	608	92	5	90	2	3	1.046	0	0	0	0	0.0	4.0	4.0		
	Alegria	549	606	91	3	75	16	6	1.060	0	10	0	0	0.5	4.5	4.5		
	NYL30-5	487	558	87	12	83	5	1	1.064	0	0	0	0	1.0	4.0	3.0	pink eyes	
	Wega	477	542	88	10	86	2	2	1.051	0	20	0	0	0.5	3.5	4.0		
	MSV093-1Y	441	474	93	4	76	17	3	1.055	0	30	0	0	0.0	5.0	3.5		
	NY149	420	463	91	8	73	18	1	1.058	0	10	0	0	0.0	4.5	3.5		
	Smart	405	496	82	14	82	0	5	1.057	0	50	0	0	0.5	4.5	3.0		
Oneida Gold	310	347	90	10	86	4	1	1.058	0	0	0	0	0.5	4.5	4.0			
Novelty Type	W9962-1RY/Y	573	610	94	4	69	25	2	1.042	0	30	0	0	0.0	3.0	3.0		
	MSX001-4WP	397	411	97	3	61	36	0	1.051	0	0	0	0	0.0	4.0	2.5		
	Merlot	357	588	61	14	61	0	25	1.067	0	30	0	0	0.0	4.0	4.5		
	COTX09022-3RusRe/Y	226	362	63	37	55	7	0	1.061	0	0	0	0	0.5	5.0	2.5		
	Amarosa	163	355	46	47	46	0	7	1.058	0	0	0	0	0.0	3.0	5.0		
Round White Type	MSV179-1	569	579	98	1	41	57	1	1.054	0	0	0	0	0.0	5.0	4.0		
	Reba	526	547	96	1	45	51	3	1.056	0	0	0	0	0.5	4.5	4.0		

MEAN 407 481 84 11 65 19 5 1.059 0 9 1 0 0.2 4.3 3.7 tr = trace, sl = slight, N/A = not applicable
SED = stem end defect, gc = growth crack

¹SIZE CLASSIFICATIONS

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

²TUBER QUALITY

(percentage of tubers out of 10)

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

⁴VINE VIGOR RATING

Date: 08-Jul-16

Ratings: 1 - 5

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

⁵VINE MATURITY RATING

Date: 30-Aug-16

Ratings: 1 - 5

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

Planted: 24-May-16

Vines Killed: 15-Sep-16

Days from Planting to Vine Kill: 114

Seed Spacing: 10"

Fumigation: None

⁶MAWN STATION: Hawks

Planting to Vine Kill

³COMMON 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