

2016 Potato Outreach Program On-Farm Variety Trials

Data Summary: Russet Variety Trials

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2016 Statewide Russet Freshpack Potato Variety Trials

Overall Averages- Ten Locations

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				
CO8155-2RU/Y ^f	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 ^{bcddefghij}	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	eyebrowing
Reveille Russet ^{bcddefghij}	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 ^{abcdehij}	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 ⁱ	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 ^{abcdehij}	391	483	78	14	66	14	5	1.070	8	30	1	1	0.3	3.3	2.3	eyebrowing, dark russeted skin
AF5179-4Rus ^{bcddefghij}	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 ^{abcdehij}	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 ^{abcdehij}	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 ^{abcdehij}	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 ^{abcdij}	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 ^{cdghj}	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 ⁱ	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 ^{abcdehij}	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^{abcdehij}	349	462	77	12	53	25	10	1.059	9	33	0	2	0.3	3.7	3.6	alligator hide, pinkeye
AF4124-7Rus ^{abcdehij}	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 ^{cdghij}	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 ^{abcdehij}	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 ^{abcdehij}	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^{abcdehij}	297	407	69	24	62	9	5	1.061	11	33	4	0	0.6	3.2	1.7	medium russeted 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 ⁱ	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	
A003123-2Rus ^{cdghij}	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
gc=growth crack

2016 Russet Variety Trial Sites

- ^a Horkey Brothers, Monroe Co.
- ^b Elmable Farm; Kalkaska Co.
- ^c Crawford Farms; Montcalm Co.
- ^d Kitchen Farms; Antrim Co.

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

LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ² (%)				COMMON	VINE	VINE	COMMENTS	
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR	HH	VD	IBS	BC	SCAB RATING ³	VIGOR ⁴		MATURITY ⁵
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 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 surf
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	

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LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ² (%)					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				
Wega	536	604	89	10	88	1	1	1.052	0	40	0	0	0.5	2.5	3.0	
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	
Yellow Skin Type 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	pink colored eyes
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	
MST386-1P	478	545	88	3	53	35	10	1.070	0	30	0	0	0.0	2.5	4.0	
W9962-1RYYY	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	
Novelty Type 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

Elm Maple 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

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: Kalkaska
Planting to Vine Kill

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 SCAB RATING ³	VINE VIGOR ⁴	VINE MATURITY ⁵	COMMENTS
		US#1	TOTAL	US#1	Bs	As	OV	PO		HH	VD	IBS	BC				
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	
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	
MSQ131-A	342	346	99	1	45	54	0	1.044	0	40	40	0	3.0	N/A	2.5		
Round White Type	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 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
Bs: < 4 oz.
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				SP GR	RAW TUBER QUALITY ² (%)				COMMON			COMMENTS	
		US#1	TOTAL	US#1	Bs	As	OV		PO	HH	VD	IBS	BC	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	
	Effe	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	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	
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		
Round White 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
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: 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	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR	HH	VD	IBS	BC	RATING ³	VIGOR ⁴	MATURITY ⁵	
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	mishapened 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	hirle
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 40^b 2762

TUBER TYPE	LINE	CWT/A		PERCENT OF TOTAL ¹					SP GR	RAW TUBER QUALITY ² (%)				COMMON	VINE	VINE	COMMENTS
		US#1	TOTAL	US#1	Bs	As	OV	PO		HH	VD	IBS	BC	SCAB RATING ³	VIGOR ⁴	MATURITY ⁵	
	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
Russet Type	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	
	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	
Yellow Type	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	
Red Type	Dakota Ruby	362	539	67	31	67	0	2	1.078	0	0	0	0	0.0	3.0	3.0	
	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 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: 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

¹SIZE
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

²TUBER QUALITY
(percentage of tubers out of 10)
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

⁵COMMON 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

⁶ALLIGATOR 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

⁷PINKEYE RATING
0.0: No incidence of pink coloration
2.0: Pink coloration, cracking of periderm
5.0: Large, pink, buffy areas

⁸MAWN STATION: Constantine
Planting to Vine Kill

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			VINE MATURETY ⁴	COMMENTS
	US# 1	Total	US#1	Bs	As	OV	PO		HH	VD	IBS	BC	SCAB RATING ⁶	HIDE RATING ⁷	PINKEYE RATING ⁸	VINE VIGOR ³		
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	PINKEYE	ALLIGATOR	VINE	VINE	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO		HH	VD	IBS	BC	SCAB RATING ³	RATING	HIDE RATING	VIGOR ⁴	MATURITY ⁵	
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)

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

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

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	VINE	VINE	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR*	HH	VD	IBS	BC	RATING ³	VIGOR ⁴	MATURITY ⁵	
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				SP GR	RAW TUBER QUALITY ² (%)				COMMON SCAB RATING ³	VINE VIGOR ⁴	VINE MATURITY ⁵	COMMENTS	
		US#1	TOTAL	US#1	Bs	As	OV		PO	HH	VD	IBS					BC
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	
	AC98052-1Rus	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	
	A003123-2Rus	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	sticky stolons
	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	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	
Round White Type	Amarosa	163	355	46	47	46	0	7	1.058	0	0	0	0	0.0	3.0	5.0	
	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	0.5	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

2016 MSU Tablestock Potato Variety Trials

Russet Type

Entry	Pedigree	2015 Scab Rating**	Characteristics
Caribou Russet (AF3362-1Rus)	Reeves Kingpin X Silverton Russet	0.3 (13)	A long russet with excellent yield, processing potential and generally good appearance, common scab tolerance, early bulking potential, medium russet skin, tolerant to Sencor & Linuron, some internal browning from heat stress observed in 2015, PVY susceptible
Dakota Russet	Marcy X AH66-3	-	Multi-purpose russet potato, high yield of uniform tubers, resistance to sugar ends and cold induced sweetening, medium late vine maturity
Goldrush Russet (ND1538-1Rus)	ND450-3Rus X Lemhi Russet	0.0 (3)	Medium maturity, oblong-blocky to long tubers, bright white flesh, common scab resistance, average yield potential
Mountain Gem Russet (A03158-2TE)	A98292-2 X A98104-4	0.4 (10)	High yield potential, common scab and tuber late blight resistance, medium maturity, nice dark russet skin, blocky to long shape
Payette Russet (A02507-2LB)	EGA09702-2 X Gemstar	0.2 (4)	High yield potential, high specific gravity, late blight and PVY resistance, late maturing
Pioneer Russet			Medium to high yielding, mid-season maturity, common scab resistant
Russet Norkotah (ND534-4Rus)	ND9526-4Rus X ND9687-5Rus	1.0 (13)	Average yield, mid-season maturity, long to oblong tubers, heavy russet skin, low specific gravity
Reveille Russet (ATX91137-1Rus)	Bannock Russet X A83343-12	0.3 (12)	Excellent yield potential, common scab tolerant, early bulking, and nice uniform dark russeted skin with good general tuber appearance, occasional misshaped tubers observed
Silverton Russet (AC83064-6)	A76147-2 X A 7875-5	0.4 (12)	High yield, oblong to long blocky tuber type, medium netted russet skin, masks PVY, medium specific gravity, PVY, Sencor & Linuron susceptibility

* First year in Michigan on-farm trials.

**Scab rating based on 0-5 scale; 0 = most resistant and 5 = most susceptible. Common scab data provided by Potato Outreach Program (P.O.P.) with qualitative descriptions derived from P.O.P., MSU Potato Breeding and Genetics Program and other potato breeding programs.

A003123-2Rus	-	-	-
A03141-6Rus*	A98083-9 X Premier Russet	-	Light russet with high yield potential, cold-sweetening resistant with very high post-harvest ratings and processing merit ratings
A06021-1TRus	A99031-1TE X A96013-2	0.1 (5)	Medium yield potential, prominent lenticels, common scab tolerance, nice blocky tuber type, light to medium russet skin
A06862-18VRus*	PA98V1-2 x A98345-1	-	Russet-skin (light) with a larger tuber profile and a high yield potential; resistant to PVY, Verticillium wilt, and Early Blight
A09001-12TERus	A03293-2 X A98345-1	1.3 (4)	Moderate yield potential, round to oval tuber type, medium russet skin, eye-browing
A096305-3Rus	-	-	-
AC96052-1Rus	-	-	-
AF4124-7Rus	A8469-5 X SC9512-4	0.7 (5)	Average yield potential, good internal quality, early to mid-season maturing, nice overall appearance, light to medium russeted skin.
AF4872-2Rus*	Reeves Kingpin X Western Russet	-	A medium-late maturing russet with better marketable yields than Russet Burbank in Maine trials. Tubers are lightly russeted, long to oblong, and tend to be quite large. It has moderate blackspot bruise resistance
AF5091-8Rus*	AF4116-9 X AF4185-1	-	A mid-season russet with better marketable yields than Russet Burbank in Maine trials. Tubers are russeted, long to oblong, and tend to be quite large. Resistance to blackspot bruise

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**Scab rating based on 0-5 scale; 0 = most resistant and 5 = most susceptible. Common scab data provided by Potato Outreach Program (P.O.P.) with qualitative descriptions derived from P.O.P., MSU Potato Breeding and Genetics Program and other potato breeding programs.

AF5179-4Rus*	A01601-4 X Highland Russet	-	A medium-late maturing russet with better marketable yields than Russet Burbank in Maine trials. Tubers are russeted, long to oblong, and tend to be quite large. It has resistance to verticillium wilt
CO05068-1Rus	-	-	-
CO05175-1Rus	-	-	-
CO07015-4Rus	-	-	-
CO07049-1Rus	-	-	-
COTX09052-2Ru*	CO03202-1Ru X CO98067-7Ru	-	Medium maturity, vigorous vines, good storage, nice shape, smooth and light-skinned with smaller tuber size and slightly pointed shape
COTX09022-3RuRE/YRus*	A00286-3Y X CO99100-1Ru	-	Nice yellow flesh, reddish eyes, good tuber shape, vigorous vines, late maturing
CW08221-5Rus*	-	-	Fresh market russet
ND050032-4Rus*	-	-	-
TX08352-5Rus*	TXA549-1Ru X AOTX98137-1Ru	-	Nice slightly blocky shape, larger size profile, medium vine vigor and maturity, semi-erect vines

* First year in Michigan on-farm trials.

**Scab rating based on 0-5 scale; 0 = most resistant and 5 = most susceptible. Common scab data provided by Potato Outreach Program (P.O.P.) with qualitative descriptions derived from P.O.P., MSU Potato Breeding and Genetics Program and other potato breeding programs.

WND8625-2Rus*	-	-	-
W9433-1Rus	Calwhite X A96023-6	0.7 (13)	Light russet skin type, high yield potential, tolerance to verticillium wilt and early blight, medium-late maturity, oblong to long blocky tuber type
W9742-3Rus	A99134-1 X AOND95249	1.0 (3)	Medium/late maturity, high specific gravity, pear shaped tubers
W9850-5Rus*	-	-	-
W10074-3Rus*	-	-	Fresh market russet

* First year in Michigan on-farm trials.

**Scab rating based on 0-5 scale; 0 = most resistant and 5 = most susceptible. Common scab data provided by Potato Outreach Program (P.O.P.) with qualitative descriptions derived from P.O.P., MSU Potato Breeding and Genetics Program and other potato breeding programs.