

2015 Statewide Russet Freshpack Potato Variety Trials

Overall Averages- Thirteen Locations

LINE	CWT/A		PERCENT OF TOTAL ¹						SP GR	RAW TUBER QUALITY ² (%)				COMMON	VINE	VINE	COMMENTS ⁶
	US#1	TOTAL	US#1	Bs	As	OV	PO	HH		VD	IBS	BC	SCAB RATING ³	VIGOR ⁴	MATURITY ⁵		
W10074-8Rus ^{lm}	614	681	90	9	71	19	2	1.088	33	0	0	0	0.5	4.0	3.2	tuber break down noted, sticky stolons, dark russet skin type, heavy lenticels	
W9742-3Rus ^{9m}	572	667	83	4	30	53	13	1.092	6	16	8	0	1.0	4.0	2.3	pear shaped tubers and knobs in pickouts	
Reveille Russet ^{abcdeghijklm} (ATX91137-1Rus)	535	628	84	12	61	23	4	1.066	0	17	4	0	0.3	2.3	2.7	nice uniform tuber type, tubular shape, tr heat sprouts, dark russet skin type, nice general appearance	
Caribou Russet ^{abcdeghijklm} (AF3362-1Rus)	525	595	87	10	64	23	3	1.073	0	30	13	0	0.3	3.6	2.5	sl alligator hide, nice large uniform blocky tubers, misshapened pickouts, heavy netted skin	
W9433-1Rus ^{abcdeghijklm}	513	594	87	6	56	31	7	1.073	1	14	21	0	0.7	3.2	3.1	sl alligator hide, very large tuber size profile, misshapen and knobs in pickouts, light russet skin type, heavy lenticels,	
A06021-1TRus ^{bhij}	499	587	85	11	65	20	4	1.077	15	24	20	0	0.1	2.8	2.1	alligator hide, misshapened pickouts, nice blocky tuber type, light to medium russet skin type	
W9519-3Rus ^{em}	496	571	88	8	68	20	4	1.065	6	11	3	0	0.6	4.0	2.3		
Mountain Gem Russet ^{abcdeghijk} (A03158-2TE)	494	597	82	12	60	22	6	1.076	12	10	0	0	0.4	3.2	2.8	alligator hide, large tuber size profile, blocky to long uniform tuber type, many eyes on tubers, eyes can be deep, nice dark russet skin type	
Silverton Russet^{abcdeghijklm}	463	562	81	14	64	17	5	1.067	6	18	7	0	0.4	3.6	2.9	alligator hide, misshapen and gc in pickouts, oval to oblong tuber type, medium heavy netted russet skin type, heat sprouts	
GoldRush Russet^{bdk}	446	570	79	14	68	11	7	1.069	13	3	0	0	0.0	2.7	2.2	nice general appearance, dark heavy russet skin type	
Payette Russet ^{bhij} (A02507-2LBRus)	440	551	80	11	63	17	9	1.085	3	8	3	0	0.2	2.3	3.1	oval blocky tuber type, medium russet skin, misshapened pickouts	
AF4953-6Rus ^{bcdelj}	433	567	78	10	62	16	12	1.078	11	6	8	0	0.8	3.1	3.1	misshapened knobby pickouts, oval to oblong non-uniform tuber type, light to medium russet skin	
AF4124-7Rus ^{bcdgij}	399	489	82	12	65	17	6	1.080	0	19	2	0	0.7	3.0	2.0	tr alligator hide and pinkeye, nice appearance, good tuber type, light to medium russet skin, sl powdery scab	
CO05175-1Rus ^{bcdghik}	396	536	72	16	58	14	13	1.077	16	8	0	1	0.6	3.1	3.1	alligator hide, blocky oblong tuber type, heavy lenticels, heat sprouts, light to medium russet skin	
CO05068-1Rus ^{bcdghikm}	394	511	76	20	69	7	4	1.086	16	7	12	1	0.5	2.9	3.2	sl alligator hide, gc and misshapened pickouts, oval to oblong tuber type, light to medium russet skin, heat sprouts	
A09001-12TERus ^{bhij}	392	464	85	9	65	20	6	1.088	28	5	0	0	1.3	3.1	2.4	sl pinkeye, knobby and misshapened pickouts, round to oval tuber type, medium russet skin, heavy eyebrowning	
W10043-1Rus ^{lm}	378	416	91	4	58	33	5	1.080	15	20	0	0	0.5	2.5	2.5	misshapened and gc in pickouts, heavy netted skin	
Russet Norkotah^{abcdeghijklm}	375	472	77	19	68	9	3	1.068	7	12	1	0	1.0	3.3	1.6	sl alligator hide, small uniform tuber type, nice dark russet skin	
A06084-1TERus ^{bhij}	368	481	69	26	57	12	5	1.077	5	11	6	0	0.1	3.5	2.3	nice general appearance, small tubular tuber type, light to medium russet skin	
A08014-11TERus ^{bil}	366	480	76	18	61	15	6	1.074	17	7	0	0	0.2	2.8	2.3	misshapened knobby pickouts, sticky stolons, medium to dark russet skin type	
Targhee Russet ^{bcm} (A01010-1)	365	462	79	15	75	4	6	1.076	0	11	0	0	0.7	3.5	2.6	sl alligator hide, tubular non-uniform tuber type, heavy russet skin	
ND8068-5Rus ^{abcdeghikm}	278	361	74	23	71	4	3	1.079	7	13	3	0	1.5	3.9	1.6	severe alligator hide, russet burbank-like skin, severe pitted scab, common scab susceptible, light russet skin,	
ACO05039-2Rus ^{bcdleghi}	240	381	63	35	58	5	3	1.077	0	13	0	0	0.2	3.5	1.4	alligator hide, small tuber type, medium to heavy russet skin	
CO07015-4Rus ^{acj}	233	361	63	35	61	2	3	1.072	3	8	3	0	0.2	3.1	1.3	nice oval blocky tuber type, heavy russet skin	
MEAN	434	531	80	14	62	18	6	1	9	12	5	0	1	3	2		

tr = trace, sl = slight, N/A = not available

gc=growth crack

2015 Russet Variety Trial Sites

- ^a Horkey Brothers, Monroe Co.
- ^b Elmapple Farm; Kalkaska Co.
- ^c Crawford Farms; Montcalm Co.
- ^d Kitchen Farms; Antrim Co.
- ^e Walther Farms (Norkotah); Van Buren Co. (Replicated)
- ^f Walther Farms (Silverton); St. Joseph Co. (Replicated)
- ^g VanDamme Farms; Delta Co.
- ^h Erke Farms, Presque Isle Co.
- ⁱ Walther Farms (pinkeye); St. Joseph Co.
- ^j NFPT (selected lines replicated); Walther Farms; St. Joseph Co.
- ^k Lennard Ag. Co.; LaGrange Co. IN
- ^l P.O.P MRC Russet Trial, Montcalm Co.
- ^m PBG MRC Russet Trial, Montcalm Co.(replicated)

- 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

- 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
- 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)

2015 Russet Variety Trial
Elmable Farms, Kalkaska County, MI
 Harvest 30-Sep-15 140 Days
 DD, Base 40⁵ 2970

	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		
Caribou Russet (AF3362-1Rus)	664	701	95	1	44	51	4	1.070	0	20	0	0	0.5	2.0	2.5	alligator hide, large tuber type	
W9433-1Rus	530	565	94	2	25	69	4	1.071	0	0	0	0	0.5	1.5	3.5	very large tuber size profile, light russet skin	
Reveille Russet (ATX91137-1Rus)	520	614	85	10	70	15	5	1.066	0	0	0	0	0.0	0.5	2.5	dark russet skin, uniform tuber type, nice general appearance	
Mountain Gem Russet (A03158-2TERus)	498	554	90	5	57	33	5	1.072	0	0	0	0	0.0	2.0	2.5	alligator hide, large tuber size profile, medium to dark russet skin type	
Silverton Russet	468	558	84	14	75	9	2	1.065	0	10	0	0	0.0	2.0	3.0	oval to oblong tuber type, medium russet skin	
GoldRush Russet	452	528	86	10	73	13	4	1.069	0	10	0	0	0.0	1.5	1.5	nice uniform dark russet skin, nice general appearance	
Targhee Russet (A01010-1Rus)	441	516	85	12	81	4	3	1.074	0	10	0	0	0.0	3.0	3.0	alligator hide, heavy russet skin	
AF4953-6Rus	440	493	89	10	72	17	1	1.073	0	0	0	0	0.0	2.5	2.5	oval to oblong tuber type, medium russet skin	
ND8068-5Rus	423	447	95	3	77	18	2	1.079	10	10	0	0	2.0	2.5	0.5	light russet skin, common scab susceptible	
A06021-1TRus	412	485	85	12	79	6	3	1.078	10	0	0	0	0.0	1.0	1.5	sl alligator hide, nice smooth general appearance, medium russet skin type	
A09001-12TERus	408	461	88	9	69	19	3	1.081	0	0	0	0	0.5	2.0	1.5	round to oval tuber type, some deep eyes, medium russet skin type, sl pinkeye	
A08014-11TERus	406	456	89	8	68	21	3	1.072	0	10	0	0	0.0	1.5	2.0	medium dark russet skin	
CO05068-1Rus	391	529	74	21	66	8	5	1.083	0	10	0	0	0.5	1.0	2.5	medium russet skin	
AF4124-7Rus	379	456	83	6	58	25	11	1.077	0	0	0	0	0.0	1.5	1.5	medium russet skin, sl pinkeye and alligator hide	
AC05039-2Rus	377	466	81	18	77	4	1	1.075	0	10	0	0	0.0	2.5	1.5	medium russet skin, uniform average tuber size	
Payette Russet (A02507-2LBRus)	368	466	79	18	69	10	3	1.082	0	0	0	0	0.0	0.5	3.5	medium russet skin type, oval to oblong tuber type, misshapened pickouts	
A06084-1TERus	347	451	77	16	72	5	7	1.077	0	0	0	0	0.5	2.0	1.5	nice general appearance, medium tuber size, medium russet skin type, tubular type	
CO05175-1Rus	331	406	81	11	68	13	8	1.076	0	0	0	0	1.0	1.5	3.0	medium russet skin type	
Russet Norkotah	274	349	78	15	69	9	7	1.067	0	10	0	0	1.5	2.0	0.0	medium dark russet skin	
MEAN	428	500	85	11	67	18	4	1.074	1.1	5.3	0.0	0.0	0.4	1.7	2.1	tr = trace, sl = slight, NA = not available	

SED = stem end defect, gc = growth crack

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

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

⁴VINE VIGOR RATING
 Date: 11-Jun-15
 Ratings: 1 - 5
 1: Slow Emergence
 5: Early Emergence (vigorous vine, some flowering)

⁵VINE MATURITY RATING
 Date: 27-Aug-15
 Ratings: 1 - 5
 1: Early (vines completely dead)
 5: Late (vigorous vine, some flowering)

Planted: 13-May-15
 Vines Killed: 17-Sep-15
 Days from Planting to Vine Kill: 127
 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

2015 Russet Variety Trial
Lennard Ag. Co., LaGrange County, IN
 Harvest 6-Oct-15 165 Days
 DD, Base 40⁶ 3824

	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	
Caribou Russet (AF3362-1Rus)	788	841	94	3	35	58	3	1.072	0	30	0	0	0.0	3.5	3.0	large overall tuber size
Silverton Russet	741	815	91	3	50	41	6	1.066	30	0	20	0	0.0	3.5	3.0	medium russet skin type, misshapen pickouts
CO05068-1Rus	707	814	87	7	73	14	6	1.086	80	0	0	0	0.0	3.0	3.0	heat sprouts in many tubers, medium russet skin, gc and misshapen pickouts
Reveille Russet (ATX91137-1Rus)	673	743	91	3	55	36	6	1.068	0	40	0	0	0.0	2.0	3.5	uniform tuber type, nice medium dark russet skin
Russet Norkotah	650	692	94	5	67	27	1	1.064	40	0	0	0	0.0	3.0	3.0	nice uniform tuber type, dark russeted skin appearance
Mountain Gem Russet (A03158-2TERus)	616	747	82	5	38	44	13	1.074	80	0	0	0	0.0	3.0	3.5	blocky to long tuber type, many eyes on tubers, eyes can be deep at times
CO05175-1Rus	590	699	84	8	71	13	8	1.079	50	0	0	10	0.0	4.0	2.5	sl points, medium russet skin type
W9433-1Rus	582	658	89	3	44	44	8	1.072	10	0	30	0	0.0	2.5	3.0	light russet skin, tr points
GoldRush Russet	452	577	78	7	60	18	15	1.068	40	0	0	0	0.0	3.0	3.0	not uniform tuber type, dark russet skin type
ND8068-5Rus	285	390	73	24	72	2	3	1.066	0	0	10	0	0.0	4.0	3.5	medium dark russeted skin type, sl tuber rot
MEAN	609	698	86	7	57	30	7	1.072	33	7	6	1	0.0	3.2	3.1	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 per ten cut)
 HH: Hollow Heart
 VD: Vascular Discoloration
 IBS: Internal Brown Spot
 BC: Brown Center

⁴VINE VIGOR RATING
 Date Taken: 28-May-15
 Ratings: 1 - 5
 1: Slow Emergence
 5: Early Emergence (vigorous vine, some flowering)

⁵VINE MATURITY RATING
 Date Taken: 13-Aug-15
 Ratings: 1 - 5
 1: Early (vines completely dead)
 5: Late (vigorous vine, some flowering)

Planted: 24-Apr-15
 Vines Killed: 17-Sep-15
 Days from Planting to Vine Kill: 146
 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

2015 MRC Russet Variety Trial
Montcalm Research Center, Montcalm County, MI
 Harvest 16-Sep-15 132 Days
 DD, Base 40⁶ 3264

	CWT/A		PERCENT OF TOTAL ¹						RAW TUBER QUALITY (%) ²				COMMON SCAB			VINE VIGOR ⁴	VINE MATURITY ⁵	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR	HH	VD	IBS	BC	RATING ³					
W10074-8Rus	475	584	83	15	69	14	2	1.091	50	0	0	0	0.5	4.0	4.0	tuber break down noted, sticky stolons, dark russet skin type, heavy lenticels		
A09001-12TERus	461	589	78	10	66	12	12	1.095	20	0	0	0	2.0	4.5	3.0	knobs and misshapened pickouts, heavy eyebrows		
AF4953-6Rus	455	567	80	15	64	16	5	1.088	10	0	0	0	1.0	4.5	4.5	misshapened pickouts, light netted skin, blocky oblong tuber type		
AF5312-1Rus	453	514	88	12	80	8	0	1.072	0	20	0	0	0.5	5.0	1.5	nice blocky tuber shape, heavy russeted skin		
AF4615-5Rus	444	510	87	10	60	27	3	1.098	30	0	0	0	2.0	3.0	4.5	oblong netted tubers, tuber break down noted, sticky stolons		
Payette Russet (A02507-2LBRus)	435	509	86	6	70	16	8	1.092	0	30	0	0	0.5	3.0	4.0	misshapened pickouts, oval blocky tuber type		
A06021-1TRus	430	518	83	11	71	12	6	1.085	0	60	0	0	0.5	3.0	2.0	misshapened pickouts, nice oval blocky tuber type		
AF5164-19Rus	395	518	76	19	59	17	5	1.082	0	0	0	0	2.0	4.5	3.5	misshapened pickouts, oblong blocky tuber type, moderate alligator hide		
W10043-1Rus	391	435	90	3	51	39	7	1.082	20	40	0	0	0.5	2.5	3.0	misshapened and gc in pickouts, heavy netted skin		
CO07049-1Rus	310	453	68	32	68	0	0	1.076	0	10	0	0	2.0	4.5	3.0	heavy russet skin, nice oval blocky tuber type		
AF5314-2Rus	292	463	63	25	56	7	12	1.072	0	0	0	0	2.0	3.5	1.5	dark heavy russet skin, gc and misshapened pickouts		
A08014-11TERus	285	440	65	27	60	5	8	1.079	30	0	0	0	0.5	4.0	2.5	sticky stolons		
CO07015-4Rus	265	369	72	28	71	1	0	1.076	0	30	0	0	0.0	4.0	0.5	heavy russeted skin, nice oval blocky tuber type		
Russet Norkotah	190	320	59	40	59	0	1	1.071	0	50	0	0	2.5	3.5	0.0			
MEAN	377	485	77	18	65	12	5	1.083	11	17	0	0	1.2	3.8	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: 17-Jun-15
 Ratings: 1 - 5
 1: Slow Emergence
 5: Early Emergence (vigorous vine, some flowering)

⁵VINE MATURITY RATING
 Date: 17-Aug-15
 Ratings: 1 - 5
 1: Early (vines completely dead)
 5: Late (vigorous vine, some flowering)

Planted: 7-May-15
 Vines Killed: 10-Sep-15
 Days from Planting to Vine Kill: 126
 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: Entrican
 Planting to Vine Kill

2015 Michigan NFPT Trial
Walther Farms - Van Buren County, MI
Harvest **29-Sep-15** Days **154**
DD, Base 40⁵ 3779

Plot#	Line	CWT/A		PERCENT OF TOTAL ¹					SP GR	RAW TUBER QUALITY ² (%)				VINE VIGOR ³	VINE MAT ⁴	COMMENTS
		US# 1	Total	US#1	Bs	As	OV	PO		HH	VD	IBS	BC			
53	AC96052-1Rus	884	946	93	6	81	12	1	1.077	0	0	50	0	3.5	2.0	many pointed tubers
11	W10074-8Rus	852	890	96	4	70	26	0	1.084	0	0	0	0	4.0	2.5	
13	W9742-3Rus	850	916	93	4	0	93	3	1.093	0	0	20	0	4.0	2.0	many pointed tubers
6	AW07791-2Rus	847	1146	74	7	50	24	19	1.083	60	20	10	0	4.0	3.0	
19	AF4872-2Rus	841	1038	81	2	34	47	17	1.074	0	20	80	0	4.5	2.5	silverton russet like skin
17	AF4342-3Rus	822	1074	77	1	12	65	22	1.090	10	20	0	0	3.0	3.0	
38	POR06V12-3Rus	750	810	93	6	72	21	1	1.079	0	60	0	0	3.5	2.0	
15	AF3001-6 Easton	719	1026	70	6	0	70	24	1.081	0	20	0	0	4.0	2.5	
46	A06862-18VRRus	718	829	87	10	78	9	4	1.084	0	0	0	0	4.5	2.0	
2	Silverton Russet	700	837	84	8	49	35	8	1.069	0	0	10	0	4.5	2.0	
51	Dakota Trailblazer	698	1127	62	4	15	47	35	1.089	0	10	20	0	3.0	2.0	
8	W10039-2Rus	660	840	79	11	47	32	10	1.095	10	20	10	0	4.5	3.0	
14	W9850-5Rus	658	746	88	10	81	7	2	1.083	0	10	20	0	4.0	2.5	
30	AO03123-2Rus	632	805	79	8	47	32	13	1.087	0	0	0	0	3.5	2.0	
45	A06084-1TERus	630	685	92	8	76	16	0	1.075	10	30	10	0	4.0	2.5	
34	AOR07781-5Rus	618	718	86	11	58	28	3	1.080	70	50	0	0	4.5	2.5	
27	AF5179-4Rus	607	618	98	2	61	37	0	1.082	10	20	20	0	3.0	2.0	
7	CW08071-2Rus	577	629	92	4	53	38	4	1.067	20	40	0	0	3.5	2.5	
41	A03141-6Rus	571	697	82	18	67	15	0	1.079	0	10	50	0	4.5	3.0	
40	A02507-2LBRus	566	727	78	7	44	34	15	1.083	10	0	0	0	3.0	2.5	
33	AOR06070-1KFRus	565	758	73	2	38	35	25	1.088	40	40	0	0	4.0	3.0	
43	A03921-2Rus	565	1097	53	0	15	38	47	1.093	0	10	0	0	4.0	2.0	5 tubers with glassy end
25	AF5091-8Rus	564	652	87	6	87	0	7	1.060	0	20	20	0	4.5	2.5	
1	Russet Norkotah	558	693	80	17	74	6	3	1.070	10	0	0	0	3.5	2.0	heavy dark russet skin type
4	AW07773-1Rus	553	623	89	11	63	26	1	1.074	70	0	0	0	4.5	3.0	
36	AOR08032-1Rus	531	679	78	20	78	0	1	1.070	20	20	0	0	4.5	2.5	
44	A06021-1TRus	528	614	86	12	52	34	2	1.069	20	40	90	0	3.5	3.0	
39	A02449-100Rus	527	686	77	0	57	20	23	1.068	10	10	0	0	4.5	2.0	
35	AOR07821-1Rus	502	961	52	3	52	0	45	1.068	20	30	0	0	4.0	2.5	very tubular tuber type

Continued on next page

Plot#	Line	CWT/A		PERCENT OF TOTAL ¹					SP GR	RAW TUBER QUALITY ² (%)				VINE VIGOR ³	VINE MAT ⁴	COMMENTS
		US# 1	Total	US#1	Bs	As	OV	PO		HH	VD	IBS	BC			
29	AF5312-1Rus	498	631	79	14	79	0	7	1.064	10	0	90	0	3.5	1.5	
5	AW07781-1Rus	491	615	80	14	77	3	6	1.082	0	20	0	0	4.5	2.0	
20	AF4950-2Rus	484	684	71	12	61	10	17	1.069	0	40	0	0	4.0	2.5	
10	W10074-3Rus	482	663	73	14	41	32	13	1.070	0	0	0	0	3.5	2.5	
48	A07008-4TRus	476	565	84	11	84	0	5	1.077	10	10	0	0	4.0	2.5	pear shaped tubers
18	AF4609-1Rus	470	667	70	16	55	15	13	1.073	30	70	60	0	4.5	1.5	
3	AW06108-1Rus	464	624	74	14	49	25	11	1.074	0	20	10	0	4.5	2.0	0.5 common scab, medium russet skin
28	AF5202-1Rus	462	749	62	19	50	12	19	1.078	0	10	0	0	4.5	1.5	
22	AF5060-27Rus	453	542	84	14	53	31	3	1.074	10	0	0	0	3.5	1.5	
26	AF5164-19Rus	428	710	60	18	60	0	22	1.070	0	40	30	0	4.5	2.5	
12	W10074-16Rus	421	553	76	17	64	12	7	1.075	70	0	0	0	4.0	3.0	
57	Ranger Russet	410	792	52	10	30	22	37	1.088	10	10	0	0	4.0	3.0	
24	AF5091-2Rus	410	524	78	22	56	22	0	1.071	0	0	10	0	3.0	3.0	
42	A03158-2TERus	390	547	71	15	46	25	14	1.074	40	20	0	0	3.5	3.0	
49	A09001-12TERus	377	416	91	4	56	35	5	1.085	10	20	0	0	3.0	3.0	
47	A06914-3CRRus	377	829	45	10	33	12	44	1.080	0	40	0	0	4.5	2.0	
52	ND8068-5Rus	371	461	81	18	81	0	1	1.079	50	30	0	0	4.5	2.0	
32	AO96141-3Rus	342	604	57	17	57	0	26	1.078	20	30	0	0	4.0	1.5	cream colored flesh
54	CO07015-4Rus	339	548	62	34	55	7	4	1.068	10	0	10	0	4.0	2.0	
21	AF4953-6Rus	308	667	46	5	46	0	49	1.082	20	0	30	0	3.0	3.5	
16	AF4296-3Rus	300	473	63	26	63	0	10	1.074	20	40	10	0	4.0	3.0	
37	OR08OP284-2Rus	261	558	47	14	47	0	40	1.079	0	10	10	0	3.0	1.5	
23	AF5072-4Rus	253	380	67	12	59	8	22	1.075	30	30	0	0	2.5	1.0	
50	Dakota RussetRus	251	421	60	17	60	0	23	1.068	0	30	10	0	3.0	3.0	
31	AO06191-1Rus	197	333	59	10	41	18	31	1.071	20	20	10	0	3.0	1.5	
55	CO07049-1Rus	187	665	28	26	28	0	46	1.073	0	0	10	0	4.0	2.0	
56	Russet Burbank	136	742	18	17	18	0	65	1.075	0	10	10	0	4.0	2.0	
MEAN		520	711	73	11	53	20	16	1.077	13	18	13	0	3.9	2.3	tr = trace, sl = slight, NA = not available

¹SIZE
Bs: < 1 7/8" or < 4 oz.

As: 1 7/8" - 3.25" or 4 - 1 VD: Vascular Discoloration

OV: > 3.25" or > 10 oz. PO: Pickouts

²TUBER QUALITY
(percentage of tubers out of 10)

HH: Hollow Heart

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: 28-Apr-15

Vines Killed: 14-Sep-15

Days from Planting to Vine Kill: 139

Seed Spacing : 10"
No fumigation

⁵MAWN STATION: Dowagiac
Planting to Vine Kill

2015 Michigan NFPT Trial- Added lines Walther Farms - Van Buren County, MI

Harvest: 29-Sep-15 154 Days

DD, Base 40⁵ 3779

LINE	CWT/A		PERCENT OF TOTAL ¹					SP GR	RAW TUBER QUALITY ² (%)				VINE VIGOR ³	VINE MATURITY ⁴	COMMENTS
	US# 1	Total	US#1	Bs	As	OV	PO		HH	VD	IBS	BC			
Reveille Russet (ATX91137-1Rus)**	733	814	90	4	65	25	6	1.066	5	0	20	0	3.3	2.0	
Silverton Russet ***	718	866	83	8	55	28	9	1.068	27	7	33	0	4.3	2.0	
W9433-1Rus **	677	812	84	5	65	19	11	1.070	0	5	70	0	3.8	2.5	heat sprouts, many pointed tubers
Caribou Russet (AF3362-1Rus) **	650	729	89	7	70	19	4	1.070	0	65	30	0	4.0	1.5	
Russet Norkotah***	604	714	85	11	80	5	4	1.068	13	7	7	0	3.5	2.7	dark russet skin
AF4124-7Rus **	537	683	78	9	62	16	13	1.074	0	25	0	0	3.5	2.3	
Mountain Gem Russet (A03158-2TERus)*****	444	601	74	10	54	20	16	1.069	0	23	0	0	3.5	2.6	
MEAN	623	746	83	8	64	19	9	1.069	6	19	23	0	3.7	2.2	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: 28-Apr-15
Vines Killed: 14-Sep-15
Days from Planting to Vine Kill: 124
Seed Spacing : 10"
No fumigation

* Indicates number of replications

⁵MAWN STATION: Dowagiac
Planting to Vine Kill

2015 Russet Pinkeye Variety Trial Walther Farms, Cass County, MI

Harvest 8-Sep-15 133 Days

DD, Base 40⁸ 2996

LINE	CWT/A		PERCENT OF TOTAL ¹					SP GR	RAW TUBER QUALITY ² (%)				COMMON SCAB RATING ³	VINE VIGOR ⁴	VINE MATURITY ⁵	PINK EYE ⁶	ALLIGATOR HIDE ⁷	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO		HH	VD	IBS	BC						
Silverton Russet	564	655	86	9	66	20	5	1.065	20	30	0	0	1.0	4.0	3.0	2.5	1.5	
Reveille Russet (ATX91137-1Rus)	560	614	91	6	66	25	3	1.071	0	40	0	0	0.0	2.5	2.5	0.0	0.5	
A06021-1TRus	515	588	88	11	69	18	1	1.081	10	10	0	0	0.0	3.0	2.0	2.0	1.0	
W9433-1Rus	440	524	84	11	65	19	5	1.080	0	40	20	0	0.0	3.5	2.5	1.5	2.5	
Russet Norkotah	422	562	75	19	68	7	6	1.069	10	30	0	0	0.0	3.5	1.5	0.0	0.5	
Mountain Gem Russet (A03158-2TERus)	418	529	79	13	57	22	8	1.078	0	30	0	0	0.0	3.0	2.5	0.0	2.0	
Caribou Russet (AF3362-1Rus)	416	515	81	14	64	16	5	1.073	0	40	10	0	0.0	4.0	1.5	0.0	0.5	misshapened pickouts
A08014-11TERus	408	544	75	19	56	19	6	1.070	20	10	0	0	0.0	3.0	2.5	0.0	4.0	misshapened, knobby pickouts
AF4953-6Rus	398	509	78	15	58	20	7	1.079	10	10	0	0	0.0	3.0	1.5	1.0	1.0	
Payette Russet (A02507-2LBRus)	391	502	78	14	68	10	8	1.084	0	0	10	0	0.0	2.5	2.5	1.0	2.0	misshapened pickouts
AF4124-7Rus	376	474	79	16	59	20	5	1.082	0	20	0	0	0.0	3.5	2.0	0.0	0.0	nice appearance, good tuber type
A09001-12TERus	323	387	83	13	68	15	3	1.092	80	0	0	0	1.5	3.0	2.0	2.0	3.0	4 tubers with blackleg
CO05068-1Rus	303	451	67	25	66	1	8	1.088	0	20	40	0	0.0	3.5	2.5	0.0	1.0	
A06084-1TERus	299	439	68	26	55	13	6	1.081	10	0	10	0	0.0	4.0	2.5	0.5	2.5	
CO05175-1Rus	295	484	61	22	46	15	17	1.082	40	10	0	0	0.0	3.5	2.5	0.0	2.5	misshapened pickouts
Targhee Russet (A01010-1Rus)	275	448	61	26	61	0	12	1.079	0	20	0	0	0.0	4.5	2.0	0.5	4.5	not uniform tuber type
AC05039-2Rus	257	414	62	36	59	3	2	1.081	0	10	0	0	0.5	4.0	1.5	0.0	1.0	
MEAN	392	508	76	17	62	14	6	1.079	12	19	5	0	0.2	3.4	2.2	0.6	1.8	

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

⁴VINE VIGOR RATING
Date: 2-Jun-15
Ratings: 1 - 5
1: Slow Emergence
5: Early Emergence (vigorous vine, some flowering)

⁵VINE MATURITY RATING
Date: 13-Aug-15
Ratings: 1 - 5
1: Early (vines completely dead)
5: Late (vigorous vine, some flowering)

Planted: 28-Apr-15
Vines Killed: 17-Aug-15
Days from Planting to Vine Kill: 111
Seed Spacing: 10"
Fumigation: None

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

⁶PINKEYE RATING
0.0: No incidence of pink coloration
2.0: Pink coloration, cracking of periderm
5.0: Large, pink, buffy areas

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

⁸MAWN STATION: Dowagiac
Planting date to vine kill

2015 Russet Norkotah Tablestock Variety Trial

Walther Farms, Van Buren County, MI

Harvest 12-Oct-15 167 Days
DD, Base 40⁶ 3779

LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ² (%)					COMMON SCAB RATING ³	VINE VIGOR ⁴	VINE MATURITY ⁵	TOTAL # OF TUBERS	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR*	HH	VD	IBS	BC					
Reveille Russet (ATX91137-1Rus)	739	816	91	5	43	48	4	1.058	0	10	13	0	0.0	3.1	2.6	122	
W9433-1Rus	679	846	81	4	52	29	15	1.067	3	8	55	0	0.0	4.0	2.9	144	heat sprouts, knobs in pickouts
W9742-3Rus	641	768	84	2	35	49	14	1.087	13	18	3	0	0.0	4.0	3.0	116	pear shaped tubers and knobs in pickouts
W9519-3Rus	638	754	85	7	50	35	8	1.061	13	13	5	0	0.0	4.0	2.6	147	
Mountain Gem Russet (A03158-2TE)	637	769	83	11	44	39	6	1.070	23	10	0	0	0.0	3.6	2.4	151	many deep eyes
Silverton Russet	609	760	80	9	50	30	11	1.063	0	18	10	0	0.0	4.5	2.4	148	misshapen tubers in pickouts
AF4953-6Rus	609	796	77	4	40	37	19	1.077	8	10	13	0	0.0	3.4	3.4	122	many knobs in pickouts
A06021-1T	608	732	84	10	54	30	6	1.074	35	8	10	0	0.0	3.4	2.1	153	
Caribou Russet (AF3362-1Rus)	593	697	86	11	65	20	3	1.060	0	15	43	0	0.0	4.4	1.9	173	
Russet Norkotah	565	697	82	10	58	24	8	1.060	10	10	0	0	0.0	3.8	1.8	172	
CO05175-1Rus	535	702	76	8	51	25	16	1.072	15	13	0	0	0.0	3.9	3.3	149	
A06084-1TE	498	581	83	9	55	28	8	1.069	5	25	10	0	0.0	3.6	2.1	127	
AC05039-2Rus	349	513	68	23	57	11	9	1.065	0	20	0	0	0.0	4.6	1.0	173	
MEAN	592	725	81	9	50	31	10	1	9.4	13	12	0	0	4	2	146	tr = trace, sl = slight, NA = not available
LSD_{0.05}	74.2	85.2	9	5.0	16.6	18.5	7.7		17.85	NS	17.2	NS	NS	0.4	0.4	20.8	SED = stem end defect, gc = growth crack

¹SIZE

Bs: < 4 oz.
As: 4 oz - 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

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: 2-Jun-15
Ratings: 1 - 5
1: Slow Emergence
5: Early Emergence (vigorous vine, some flowering)

⁵VINE MATURITY RATING

Date: 13-Aug-15
Ratings: 1 - 5
1: Early (vines completely dead)
5: Late (vigorous vine, some flowering)

Planted: 28-Apr-15
Vines Killed: 14-Sep-15
Days from Planting to Vine Kill: 139
Seed Spacing: 10"
Fumigation: No
⁶MAWN STATION: Dowagiac
Planting to Vine Kill

*Data not replicated, all other data taken from 4 replicates. ANOVA performed on each variable with level of significance considered $\alpha=0.05$

2015 Silverton Russet Tablestock Potato Variety Trial

Walther Farms, St. Joseph County, MI

Harvest 19-Oct-15 187 Days

DD, Base 40⁶ 3216

LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ² (%)					COMMON SCAB	VINE	VINE	TOTAL # OF TUBERS	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR*	HH	VD	IBS	BC	RATING ³	VIGOR ⁴	MATURITY ⁵		
Reveille Russet (ATX91137-1Rus)	650	745	88	6	54	34	7	1.055	0	10	10	0	0.0	2.0	1.8	132.0	gc, tubular shape, many eyes, tr heat sprouts
W9433-1Rus	558	737	76	6	40	36	19	1.062	0	20	43	0	0.0	3.9	2.9	139.5	heat sprouts, heavy lenticels, sl pinkeye
Russet Norkotah	554	702	79	12	71	8	9	1.060	0	23	3	0	1.0	4.1	1.6	192.0	points, alligator hide
Caribou Russet (AF3362-1Rus)	553	675	82	10	66	16	8	1.063	3	30	38	0	0.0	4.1	2.4	169.5	alligator hide on apical end, pinkeye, misshapen pickouts,
Silverton Russet	537	697	77	12	60	17	11	1.058	0	18	8	0	0.0	4.4	2.8	168.8	pear shaped tubers, heat sprouts in pickouts, alligator hide
CO05175-1Rus	410	605	68	10	55	14	22	1.067	15	13	0	0	0.0	3.4	2.4	141.5	heavy lenticels, tubular shape, heat sprouts, misshapen tubers
CO05068-1Rus	387	595	66	17	60	6	17	1.075	3	13	35	0	0.0	3.6	2.9	193.5	severe heat sprouts
MEAN	521	679	76	10	58	18	13	1.063	3	18	19	0	0.1	3.6	2.4	162.4	tr = trace, sl = slight, NA = not available
LSD	77	72	8.5	4.8	10.2	13.7	8.3		NS	NS	2.3	NS	0.6	0.52	0.85	35.5	gc=growth crack

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: 28-May-15
Ratings: 1-5
1: Slow Emergence
5: Early Emergence (vigorous vine, some flowering)

⁵VINE MATURITY RATING
Date: 13-Aug-15
Ratings: 1 - 5
1: Early (vines completely dead)
5: Late (vigorous vine, some flowering)

Planted: 15-Apr-15
Vines Killed: 22-Aug-15
Days from Planting to Vine Kill: 129
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
5.0: More than 50% of tuber surface area covered in pitted lesions

⁶MAWN STATION: Constantine
Planting to Vine Kill

*Data not replicated, all other data taken from 4 replicates. ANOVA performed on each variable with level of significance considered

2015 Freshpack Potato Variety Trial

Crawford Farms, Montcalm County, MI

Harvest 14-Oct-15 145 Days

DD, Base 40⁶ 2844

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				
RED	MST386-1P	574	583	99	1	89	10	0	1.081	0	40	0	0	2.0	3.5	3.5	purple skin, white flesh, flattened round tuber type
	ND7132-1R	512	535	96	4	89	7	0	1.065	0	70	0	0	3.0	3.0	2.0	pear shaped tubers, oval tuber type, white flesh
	Merlot	482	562	86	11	86	0	3	1.074	0	40	0	0	2.0	2.0	3.0	pear shaped tubers, yellow flesh, medium red skin color
	CO07102-1R	451	500	90	7	88	2	3	1.064	0	10	0	0	4.0	2.5	1.0	nice red skin color, nice white flesh
	Dakota Ruby	440	518	85	15	85	0	0	1.070	0	10	0	0	1.0	2.5	1.5	nice red skin color, uniform round to oval tuber type
	Dark Red Norland	423	458	92	7	92	0	1	1.062	0	10	0	0	2.0	3.0	1.0	smooth red skin type, medium red color
	ND6002-1R	414	460	90	8	83	7	2	1.061	0	30	0	0	2.5	3.0	1.0	medium red skin color
RUSSET	Reveille Russet (ATX91137-1Rus)	644	676	95	5	83	12	0	1.069	0	30	0	0	2.0	1.5	2.5	dark russet skin type, long tuber type
	Caribou Russet (AF3362-1Rus)	636	659	96	4	86	10	0	1.076	0	40	0	0	1.0	3.0	3.0	tr alligator hide
	Mountain Gem Russet (A03158-2TERus)	585	620	94	6	91	3	0	1.076	0	30	0	0	2.5	3.0	1.5	uniform tuber type
	CO05068-1Rus	527	569	93	7	93	0	0	1.090	0	10	0	0	2.0	2.0	3.5	oval to oblong tuber type
	Silverton Russet	518	560	92	7	73	19	1	1.067	0	30	0	0	2.0	2.5	3.5	alligator hide
	CO05175-1Rus	473	585	81	11	74	7	8	1.077	10	20	0	0	2.5	3.0	3	blocky oblong tuber type, medium russet skin type
	W9433-1Rus	454	496	91	6	88	3	3	1.074	0	40	20	0	2.0	2.0	2.0	light russet skin type
	Targhee Russet (A01010-1Rus)	430	512	84	10	82	2	6	1.075	0	0	0	0	1.5	3.0	2.5	tubular tuber type, dark russet skin
	AF4953-6Rus	418	451	92	8	76	16	0	1.074	30	10	10	0	3.5	2.0	3.5	non uniform tuber type
	AF4124-7Rus	405	438	92	6	92	0	2	1.081	0	60	10	0	1.5	2.5	2.0	light russet skin type
	ND8068-5Rus	290	375	77	23	77	0	0	1.073	0	10	0	0	5.0	4.0	1.0	small tuber type, severe pitted scab
	Russet Norkotah	252	302	84	16	84	0	0	1.063	0	20	0	0	4.0	3.0	1.0	
CO07015-4Rus	247	352	70	28	70	0	2	1.071	0	0	0	0	0.5	2.5	1.0	small tuber type, heavy dark russet skin type	
AC05039-2Rus	191	297	64	33	64	0	3	1.070	0	20	0	0	1.0	3.0	1.0	small tuber type, medium russet skin	
ROUND WHITE	MSU161-1	670	701	95	5	92	3	0	1.071	0	10	0	0	2.0	3.0	3.0	large uniform tuber type, nice white flesh
	MSS576-5SPL	501	516	97	3	81	16	0	1.066	0	20	0	0	2.5	4.0	2.5	pink splash around eyes, white flesh
	MSS487-2	357	425	84	16	84	0	0	1.074	0	0	0	0	2.5	2.5	3.0	uniform round tuber type
	Reba	331	373	89	11	87	2	0	1.066	0	0	0	0	1.0	3.0	2.0	oval tuber type
YELLOW	VC1009-1W/Y	590	711	83	15	83	0	2	1.072	0	60	0	0	1.0	3.0	4.0	flat oval tuber type, yellow flesh, severe vd, rhizoctonia
	MSV093-1Y	590	626	95	4	78	17	1	1.071	0	20	0	0	1.0	3.5	3.0	round tuber type, light yellow flesh
	Soraya	546	601	91	8	89	2	1	1.058	0	10	0	0	0.5	3.0	1.5	nice deep yellow flesh, oblong tuber type
	Molli	417	513	81	7	81	0	2	1.064	0	20	0	0	2.0	4.0	1.0	oval tuber type, smooth skin
	A02267-1Y	320	372	86	14	86	0	0	1.064	0	20	0	0	2.0	2.5	2.5	purple eyes, yellow flesh, flattened oval tuber type
	Oneida Gold	273	347	79	21	76	3	0	1.072	0	30	0	0	0.5	3.0	1.5	small flat round tuber type, sl alligator hide
	CO05037-3W/Y	144	324	45	52	45	0	3	1.065	0	30	0	0	0.5	3.0	1.0	small flat oval tubers, pink eye pigmentation
MEAN		441	501	87	12	82	4	1	1.071	1	23	1	0	2.0	2.8	2.2	tr = trace, sl = slight, NA = not available

SED = stem end defect, gc = growth crack

¹SIZE _____ ²TUBER QUALITY (percent of tubers per 10 cut) _____
Bs: < 1 7/8" or <4oz. HH: Hollow Heart Date: 18-Jun-15
As: 1 7/8" - 3.25" or 4-1 VD: Vascular Discoloration Ratings: 1 - 5
OV: > 3.25" or >10oz. IBS: Internal Brown Spot 1: Slow Emergence
PO: Pickouts BC: Brown Center 5: Early Emergence (vigorous vine, some flowering)

⁴VINE VIGOR RATING _____ ⁵VINE MATURITY RATING _____
Date: 18-Jun-15 Date: 31-Aug-15
Ratings: 1 - 5 Ratings: 1 - 5
1: Early (vines completely dead)
5: Late (vigorous vine, some flowering)

Planted: 22-May-15
Vines Killed: 5-Sep-15
Days from Planting to Vine Kill: 106
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: Entrican
Planting to Vine Kill

2015 Freshpack Potato Variety Trial

Erke Farms, Presque Isle County, MI

Harvest 2-Oct-15 121 Days
DD, Base 40⁶ 2652

TUBER TYPE	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
RED	ND7132-1R	217	268	81	16	81	0	3	1.071	0	40	0	0	0.0	4.0	3.0	uniform oval tuber type, sl netted skin type, nice red color
	ND6002-1R	175	234	75	25	75	0	0	1.077	0	0	0	0	0.0	3.5	2.5	sl alligator hide, small uniform tuber type, average red skin color
	Dakota Ruby	144	264	55	43	55	0	2	1.075	0	10	0	0	0.0	3.5	2.5	small uniform tuber type, nice red skin color, smooth skin type
	Dark Red Norland	123	205	60	36	60	0	4	1.075	0	0	0	0	0.0	4.5	2.5	sl alligator hide, tr netted skin, nice red color white flesh
	Merlot	63	236	27	73	27	0	0	1.096	0	0	0	0	0.0	3.5	4.5	light netted skin type, light yellow flesh, tr pear shaped tubers, oval to oblong tuber type
RUSSET	W9433-1Rus	395	450	88	10	81	7	2	1.081	0	20	0	0	0.0	4.0	4.0	nice blocky tuber type, light netting, sl alligator hide
	Reveille Russet (ATX91137-1Rus)	255	383	66	29	66	0	5	1.071	0	0	0	0	0.0	3.0	3.0	nice uniform tuber size, dark russet skin type, blocky tuber type
	Mountain Gem Russet (A03158-2TERus)	238	423	56	42	56	0	2	1.087	0	0	0	0	0.0	4.0	4.0	medium russet skin type, medium over all tuber size profile
	Caribou Russet (AF3362-1Rus)	210	309	68	32	68	0	0	1.077	0	60	0	0	0.0	4.0	3.5	sl alligator hide, netted skin type
	Silverton Russet	193	301	64	36	64	0	0	1.074	0	10	0	0	0.0	4.0	3.5	alligator hide, netted russet skin type
	Russet Norkotah	164	315	52	47	52	0	1	1.069	0	0	0	0	0.0	3.5	2.5	sl alligator hide, small uniform tuber type, dark russet skin type
	CO05175-1Rus	146	326	45	46	45	0	9	1.088	0	20	0	0	0.0	3.0	4.0	small overall tuber type, medium netted skin type, alligator hide
	AC05039-2Rus	137	281	49	50	49	0	1	1.086	0	10	0	0	0.0	3.5	2.0	alligator hide, medium russet skin type
	CO05068-1Rus	120	311	38	61	38	0	1	1.100	0	10	0	0	0.0	3.5	4.5	tr alligator hide, medium russet skin type,
WHITE	ND8068-5Rus	102	226	45	54	43	2	1	1.087	0	30	0	0	0.0	4.0	1.5	severe alligator hide, small tuber type, russet burbank-like skin
	A06084-1TERus	64	250	25	73	25	0	2	1.082	0	0	0	0	0.0	4.0	3.0	small tuber type, light to medium russet skin
	MSU161-1	275	348	79	21	79	0	0	1.083	0	0	0	0	0.0	4.0	3.0	small uniform round to oval tuber type, alligator hide,
	MSS576-5SPL	216	280	77	21	77	0	2	1.083	0	10	0	0	0.0	4.5	3.0	medium bright tubers, pink splash around eyes
	Reba	214	266	80	20	80	0	0	1.080	0	0	0	0	0.0	4.0	2.5	tr alligator hide, uniform oval tuber type
YELLOW	MSV093-1Y	281	355	79	21	79	0	0	1.077	0	10	0	0	0.0	4.0	2.5	alligator hide, uniform round tuber type, light netted skin, yellow flesh
	Soraya	224	354	63	36	63	0	1	1.068	0	0	0	0	0.0	4.5	4.0	alligator hide, points and pear shaped tubers, yellow flesh
	VC1009-1W/Y	216	395	55	44	55	0	1	1.091	0	10	0	0	0.0	4.5	4.5	sticky stolons, round tuber type, yellow flesh
	A02267-1Y	213	318	67	32	67	0	1	1.073	0	0	0	0	0.0	4.0	3.0	small oval tuber type, purple eyes, eye depth is slightly deep, yellow flesh, no alligator hide
	Molli	199	329	60	39	60	0	1	1.074	0	0	0	0	0.0	5.0	2.0	small uniform tuber type, yellow flesh, smooth skin type, sl alligator hide
	Oneida Gold	165	252	66	33	66	0	1	1.080	0	20	0	0	0.0	4.0	3.5	severe alligator hide, round tuber type
CO05037-3W/Y	67	243	27	71	27	0	1	1.077	0	0	0	0	0.0	4.5	2.0	tr alligator hide, yellow flesh, round to oval tuber type	
MEAN		145	241	60	39	59	0	2	1.079	0	10	0	0	0.0	3.8	3.0	tr = trace, sl = slight, N/A = not applicable

¹SIZE CLASSIFICATIONS

Red/white/yellow

Bs: < 1 7/8" or
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
(percent of tubers cut out of ten)

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

⁴VINE VIGOR RATING

Date: 10-Jul-15
Ratings: 1 - 5
1: Slow Emergence
5: Early Emergence (vigorous vine, some flowering)

⁵VINE MATURITY RATING

Date: 25-Aug-15
Ratings: 1 - 5
1: Early (vines completely dead)
5: Late (vigorous vine, some flowering)

Planted: 3-Jun-15

Vines Killed: 15-Sep-15
Days from Planting to Vine Kill: 104
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

No irrigation
⁶MAWN STATION: Hawks
Planting to Vine Kill

SED = stem end defect, gc = growth crack

2015 Freshpack Potato Variety Trial

Horkey Brothers, Monroe County, MI

Harvest 1-Oct-15 166 Days
DD, Base 40⁶ 3269

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
RED	Merlot	359	540	66	30	66	0	4	1.063	0	0	0	0	0.0	2.5	2.0	pointed to pear shaped tubers, light red skin color, yellow flesh
RUSSET	Reveille Russet (ATX91137-1Rus)	545	655	84	4	60	24	12	1.069	0	0	0	0	0.0	1.5	3.0	medium russet skin type, large blocky tuber type
	W9433-1Rus	492	532	92	3	55	37	5	1.072	0	20	0	0	0.0	2.5	3.5	large tuber type, light russet skin type
	Mountain Gem Russet (A03158-2TERus)	478	548	87	11	78	9	2	1.075	20	0	0	0	0.0	2.5	3.0	uniform medium tuber size, dark russet skin type
	Caribou Russet (AF3362-1Rus)	432	462	93	6	73	20	1	1.079	0	0	20	0	0.0	3.0	2.5	heavy netted skin, blocky tuber type, few tubers with rot
	Silverton Russet	367	449	82	9	75	7	9	1.065	0	0	10	0	0.0	3.0	3.5	heavy netted skin type, misshapen and gc in pickouts
	ND8068-5Rus	311	365	85	13	82	3	2	1.077	0	0	0	0	0.0	3.5	1.5	russet burbank-like skin type, small uniform tuber type
	Russet Norkotah	267	379	70	21	70	0	9	1.065	10	0	0	0	0.0	3.0	2.5	heavy russet skin type, uniform small tubers
CO07015-4Rus	80	174	46	49	46	0	5	1.074	0	0	0	0	0.0	2.0	1.5	small tuber tuber type, heavy russet skin	
ROUND WHITE	Reba	498	542	92	6	84	8	2	1.067	0	0	0	0	0.0	3.5	2.0	deep apical eyes, oval tuber type
	MSS487-2	420	529	80	20	79	1	0	1.064	0	0	0	0	0.5	3.0	3.0	uniform round tuber type, heavy netted skin
	Onaway	292	401	73	18	70	3	9	1.059	0	20	0	0	0.5	3.5	1.5	poor shape, poor overall appearance
	MSQ131-A	228	249	92	5	74	18	3	1.056	10	0	0	0	2.0	3.0	3.5	pink eye, uniform tuber type, bright white skin appearance
YELLOW	MSV093-1Y	574	642	89	8	84	5	3	1.066	0	0	0	0	0.0	2.5	3.0	buff netted skin type, yellow flesh, uniform tuber type
	W9576-13Y	455	575	80	18	78	2	2	1.072	0	10	0	10	0.0	4.0	3.0	tr heat sprouts, yellow flesh, buff skin type, generally good appearance
	VC1009-1W/Y	394	625	63	33	63	0	4	1.074	10	0	0	0	0.0	3.0	3.5	sl heat sprouts, yellow flesh, oval tuber shape, sl points
	Oneida Gold	352	448	78	22	78	0	0	1.072	0	0	0	0	0.0	N/A	N/A	buff skin type, small uniform tuber type,
	Lehigh	329	361	91	5	78	13	4	1.073	0	0	0	0	0.0	2.0	1.5	netted skin type, gc in pickouts, yellow flesh, oval tuber type
	MST252-1Y	324	383	84	11	76	8	5	1.079	0	0	0	0	0.0	1.5	3.0	gc in pickouts, buff skin type, cream colored flesh
	A02267-1Y	312	443	70	29	70	0	1	1.052	0	20	0	0	0.0	3.0	3.5	purple eye blotches, sl pointed tubers
	W9577-6Y	305	390	78	20	77	1	2	1.064	0	30	0	0	0.0	3.0	3.0	oval tuber type, buff skin type
	W9576-11Y	303	506	60	39	60	0	1	1.056	0	30	0	0	1.0	3.5	3.5	buff skin type, yellow flesh, small oval tuber type
	Soraya	302	494	61	15	61	0	24	1.048	0	20	0	0	0.0	2.5	2.0	severe points and misshapen in pickouts, yellow flesh, sl alligator hide
Molli	167	292	57	37	57	0	6	1.060	0	10	0	0	1.5	3.5	2.5	oval tuber type, yellow flesh,	
CO05037-3W/Y	159	405	39	59	39	0	2	1.062	0	10	0	0	0.0	3.0	1.5	oval tuber type, buff skin, medium yellow flesh	
MEAN		350	456	76	20	69	6	5	1.067	2	7	1	0	0.2	2.8	2.6	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" Bs: < 4 oz.
As: 1 7/8"- 3.25" As: 4 - 10 oz.
OV: > 3.25" OV: > 10 oz.
PO: Pickouts 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: 28-May-15
Ratings: 1 - 5
1: Slow Emergence
5: Early Emergence (vigorous vine, some flowering)

⁵VINE MATURITY RATING

Date: 13-Aug-15
Ratings: 1 - 5
1: Early (vines completely dead)
5: Late (vigorous vine, some flowering)

Planted: 18-Apr-15

Vines Killed: 27-Aug-15

Days from Planting to Vine Kill: 131

Seed Spacing : 10" Russet; 7.5" Other

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

2015 Freshpack Potato Variety Trial Kitchen Farms, Antrim County, MI

Harvest **28-Sep-15** **137 Days**
DD, Base 40⁶ **2357**

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
RED	MST386-1P	578	626	92	3	77	15	5	1.075	0	30	0	0	3.5	4.0	2.0	moderate powdery scab, nice white flesh, nice purple skin color
	ND7132-1R	525	641	82	10	79	3	8	1.060	0	0	0	0	3.5	3.5	1.5	powdery scab and tr common scab, uniform oval tuber type, nice red skin color
	Merlot	470	685	69	25	69	0	6	1.069	0	30	0	0	2.5	3.0	2.0	powdery and common scab, sticky stolons and pointed tubers
	ND6002-1R	462	546	85	12	80	5	3	1.057	0	10	0	0	4.5	3.5	1.5	severe powdery scab, good red skin color, gc in pickouts
	Dark Red Norland	225	304	74	26	73	1	0	1.052	0	20	0	0	5.0	4.0	1.5	severe powdery scab
RUSSET	Caribou Russet (AF3362-1Rus)	619	743	83	16	67	16	1	1.074	0	30	0	0	0.5	3.5	2.5	nice uniform tuber type, nice russet skin
	Mountain Gem Russet (A03158-2TE)	568	661	86	11	72	14	3	1.074	0	10	0	0	0.0	3.0	2.0	nice russet skin type, many eyes
	W9433-1Rus	523	591	88	10	57	31	2	1.070	0	10	0	0	3.0	3.5	3.0	light russet skin type, mostly ruptured scab lesions
	CO05068-1Rus	459	586	78	20	78	0	2	1.085	0	0	0	0	0.5	3.0	2.0	nice type, light russeted skin
	Goldrush Russet	434	606	72	26	72	0	2	1.068	0	0	0	0	0.0	3.5	2.0	nice uniform round tuber type, heavy russet skin
	Russet Norkotah	424	550	77	21	77	0	2	1.070	0	0	0	0	0.5	3.5	0.5	nice uniform tuber type, nice russet skin, tr common scab
	CO05175-1Rus	416	559	74	14	68	6	12	1.075	10	0	0	0	1.5	3.0	2.5	light russet skin, nice tuber type
	AF4953-6Rus	405	484	84	16	77	7	0	1.069	0	10	0	0	0.0	3.0	2.5	nice tuber type, moderate russet skin
	AF4124-7Rus	395	534	73	25	66	7	2	1.080	0	0	0	0	2.0	3.0	1.5	pointed russet type, sl powdery scab, light russet skin
	ND8068-5Rus	335	449	75	25	75	0	0	1.079	0	10	0	0	2.0	4.0	1.0	common scab symptoms, light skinned
	Reveille Russet (ATX91137-1Rus)	321	617	52	47	52	0	1	1.061	0	40	0	0	0.0	2.0	2.5	nice tuber type, uniform dark russet skin
Silverton Russet	247	404	61	37	61	0	2	1.062	0	40	0	0	0.0	3.5	2.0	nice uniform russet skin, average tuber size	
ACO5039-2Rus	121	387	32	65	30	2	3	1.075	0	20	0	0	0.0	3.5	1.0	heavy russet skin, small overall tuber size profile	
ROUND WHITE	Reba	682	715	95	4	82	13	1	1.068	0	10	0	20	4.0	4.0	1.5	large oval tubers, severe powdery scab
	Whitney	651	725	90	8	69	21	2	1.053	10	20	0	50	2.0	2.5	2.0	powdery scab lesions, bright white appearance, smooth skin type
	MSQ131-A	595	621	96	4	76	20	0	1.061	0	20	0	0	2.5	3.5	2.0	bright skin appearance, uniform round tuber type, mix of common and powdery scab
	MSU161-1	562	661	85	14	85	0	1	1.069	0	10	0	0	1.0	4.0	1.5	alligator hide skin cracking, light russet skin, oval tuber type
	MSS576-5SPL	536	583	92	6	78	14	2	1.060	0	20	0	0	4.5	3.5	1.5	severe powdery scab, pink eye blotching
	MSS487-2	486	547	89	11	85	4	0	1.067	0	0	0	0	2.0	4.0	2.0	uniform tuber type, netted skin, common scab lesions present
YELLOW	Soraya	847	922	92	6	87	5	2	1.056	0	0	0	10	0.5	4.0	2.0	nice dark yellow flesh, oblong tuber type
	VC1009-1W/Y	710	846	84	15	84	0	1	1.076	0	40	0	0	3.5	3.5	3.5	flattened shape, common scab-like lesions, nice yellow flesh
	Molli	637	709	90	8	87	3	2	1.066	0	0	0	0	2.0	4.5	1.0	sl common scab
	MSV093-1Y	520	596	87	13	85	2	0	1.058	0	30	0	0	4.0	4.5	2.5	powdery scab, nice yellow flesh, netted skin, uniform round tuber type
	A02267-1Y	446	592	75	24	75	0	1	1.063	0	20	0	0	3.0	4.0	1.5	yellow flesh, severe powdery scab like lesions, purple eyes
	A05182-7Y	425	707	60	39	60	0	1	1.069	0	30	0	0	3.5	3.0	3.0	light yellow flesh, oval tuber type, powery scab lesions
	MST252-1Y	375	480	79	17	72	7	4	1.062	0	30	0	0	1.0	3.0	1.5	cream colored flesh, sl netted skin type, misshapen pickouts
	CO07370-1W/Y	358	494	73	22	73	0	5	1.061	0	60	0	0	4.0	3.5	3.0	powdery scab lesions, nice yellow flesh, sl common scab, severe heat sprouts and knobs
Oneida Gold	191	363	53	46	53	0	1	1.064	0	20	0	0	1.0	3.0	2.0	sl powdery scab, small tuber size	
CO05037-3W/Y	169	452	37	62	37	0	1	1.061	0	30	0	0	3.0	4.5	1.0	yellow flesh, pink eyes, powdery scab like lesions	
MEAN	462	588	77	21	71	6	2	1.067	1	18	0	2	2.1	3.5	1.9	tr = trace, sl = slight, NA = not available SED = stem end defect, gc = growth crack	

¹SIZE CLASSIFICATIONS

Red/white/yellow Russets
Bs: < 1 7/8" Bs: < 4 oz.
As: 1 7/8" - 3.25" As: 4 - 10 oz.
OV: > 3.25" OV: > 10 oz.
PO: Pickouts 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: 18-Jun-15
Ratings: 1 - 5
1: Slow Emergence
5: Early Emergence (vigorous vine, some flowering)

⁵VINE MATURITY RATING

Date: 27-Aug-15
Ratings: 1 - 5
1: Early (vines completely dead)
5: Late (vigorous vine, some flowering)

Planted: 14-May-15

Vines Killed: 22-Aug-15

Days from Planting to Vine Kill: 100

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

*Common scab rating system was slightly modified to address powdery scab like lesions observed in the field, where ratings reflect coverage of scab lesions rather than

2015 Freshpack Potato Variety Trial VanDamme Farms, Delta County, MI

Harvest 30-Sep-15 125 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				
RED	MST386-1P	530	568	93	1	40	53	6	1.084	0	0	0	0	0.0	4.0	4.0	
	ND7132-1R	475	496	96	2	61	35	2	1.069	0	0	10	0	0.0	3.5	3.5	
	Dark Red Norland	439	467	94	5	94	0	1	1.066	0	0	0	0	0.0	4.5	2.0	
	Merlot	430	495	87	10	86	1	3	1.089	0	0	0	0	0.0	3.0	4.5	
	Dakota Ruby	405	447	90	8	89	1	2	1.075	0	0	0	0	0.0	3.5	3.0	
	ND6002-1R	401	417	96	2	76	20	2	1.069	0	0	0	0	0.0	4.0	3.0	
RUSSET	Caribou Russet (AF3362-1Rus)	485	532	91	7	59	32	2	1.084	0	20	10	0	0.0	4.0	4.0	
	Mountain Gem Russet (A03158-2TERus)	463	518	90	7	50	40	3	1.083	0	0	0	0	1.0	4.0	4.0	
	W9433-1Rus	455	512	88	5	45	43	7	1.086	0	0	10	0	0.0	4.0	4.0	
	Russet Norkotah	434	438	99	1	78	21	0	1.077	0	0	0	0	0.0	3.5	2.5	
	CO05068-1Rus	387	450	86	14	78	8	0	1.084	10	0	10	0	0.0	3.5	4.5	
	Reveille Russet (ATX91137-1Rus)	366	412	88	9	57	31	3	1.074	0	0	0	0	0.0	3.5	4.0	
	CO05175-1Rus	364	461	79	9	47	32	12	1.076	0	0	0	0	0.0	3.0	5.0	
	Silverton Russet	308	371	83	17	63	20	0	1.079	0	20	0	0	0.0	4.0	4.0	
	AF4124-7Rus	302	349	87	9	54	33	4	1.086	0	10	0	0	0.0	4.0	3.0	
	ND8068-5Rus	274	339	81	16	74	7	3	1.091	0	0	20	0	0.0	4.5	2.0	
	AC05039-2Rus	251	311	81	19	68	13	0	1.088	0	0	0	0	0.0	3.5	2.0	
ROUND WHITE	MSS576-5SPL	514	544	95	5	81	14	0	1.073	0	0	0	0	0.0	4.5	3.5	
	MSS487-2	483	510	95	4	80	15	1	1.075	0	0	0	0	0.0	4.0	4.0	
	MSU161-1	417	459	91	4	68	23	5	1.075	0	0	0	0	1.0	3.5	4.0	
	Reba	373	454	82	16	62	20	2	1.079	0	0	0	0	0.0	3.5	4.0	
YELLOW	VC1009-1Y	630	654	97	3	81	16	0	1.088	0	0	0	0	0.0	4.0	4.5	
	MSV093-1Y	523	540	96	4	92	4	0	1.079	0	0	0	0	0.0	4.0	4.5	
	Molli	480	525	92	6	83	9	2	1.079	0	0	0	0	0.0	4.5	3.5	
	A02267-1Y	448	488	92	5	81	11	3	1.070	0	0	0	0	0.0	4.0	4.0	
	Oneida Gold	346	376	92	8	91	1	0	1.083	0	0	0	0	0.0	4.0	2.5	
	Soraya	318	329	95	3	55	42	2	1.063	0	0	0	0	0.0	3.5	4.0	
	CO05037-3Y	271	335	81	18	80	1	1	1.075	0	0	0	0	0.0	4.0	2.5	
	MEAN	413	457	90	8	70	19	2	1.079	0	2	2	0	0.1	3.8	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" Bs: < 4 oz.
As: 1 7/8"- 3.25" As: 4 - 10 oz.
OV: > 3.25" OV: > 10 oz.
PO: Pickouts 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: 07-Jul-15
Ratings: 1 - 5
1: Slow Emergence
5: Early Emergence (vigorous vine, some flowering)

⁵VINE MATURITY RATING

Date: 26-Aug-15
Ratings: 1 - 5
1: Early (vines completely dead)
5: Late (vigorous vine, some flowering)

Planted: 28-May-15
Vines Killed: 17-Sep-15
Days from Planting to Vine Kill: 112
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

2015 MSU Tablestock Potato Variety Trials

Russet type

Entry	Pedigree	2014 Scab Rating*	Characteristics
Caribou Russet (AF3362-1Rus)	Reeves Kingpin X Silverton Russet	1.0	A long russet with good yield, processing potential and generally good appearance, common scab tolerance, early bulking potential, medium russet skin, tolerant to Sencor & Linuron
Goldrush Russet (ND1538-1Rus)	ND450-3Rus X Lemhi Russet	0.8	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	-	High yield potential, common scab and tuber late blight resistance, medium-late maturity
Payette Russet (A02507-2LB)	EGA09702-2 X Gemstar	-	High yield potential, high specific gravity, late blight and PVY resistance, late maturing
Russet Norkotah (ND534-4Rus)	ND9526-4Rus X ND9687-5Rus	1.8	Average yield, mid-season maturity, long to oblong tubers, heavy russet skin, low specific gravity
Reveille (ATX91137-1Rus)	Bannock Russet X A83343- 12	1.1	Common scab tolerant, some incidence of growth defects, high yield potential
Silverton Russet (AC83064-6)	A76147-2 X A 7875-5	1.6	High yield, oblong to long blocky tuber type, medium netted russet skin, masks PVY, medium specific gravity, possible Sencor & Linuron susceptibility
Targhee Russet (A01010-1)	A92303-7 X A96004-8	-	High yield potential, hollow heart, black spot bruise, and soft rot resistance
A06084-1TE	A98345-1 X A97267-1	-	High yield potential, heavy russet skin

*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.

A08014-11TE	Blazer Russet X A98196-5	-	Early maturing, oblong shape, medium yield potential
A09001-12TE	A03293-2 X A98345-1	-	Good yield potential, early maturity
A06021-1TRus	A99031-1TE X A96013-2	1.0	Medium yield potential, prominent lenticels, common scab tolerance
AC05039-2Rus	A99032-2TE X COA00287	-	-
AF4124-7Rus	A8469-5 X SC9512-4	1.8	Below average yield potential, good internal quality
AF4953-6Rus	W3160-51LB X W1836-3Rus	-	Late maturity, moderate resistant to common scab, long-oblong shape
AF4615-5Rus	A94066-42LB X COA00329-3	-	Medium-late maturity, moderate susceptibility to common scab, moderate resistance to late blight, long-oblong shape
AF5164-19Rus	Reeves Kingpin X AF4185-1	-	Medium-late maturity, verticillium wilt resistant, golden nematode resistant, long-oblong shape
AF5312-1Rus	A86102-6 X CO82142-4	-	Medium maturity, resistant to common scab, moderately resistant to black spot bruise, long-oblong shape
AF5314-2Rus	Bannock Russet X W1151Rus	-	Medium maturity, resistant to common scab and black spot bruise, long-oblong shape
CO05068-1Rus	-	-	-

*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.

CO05175-1Rus	-	-	-
CO07015-4Rus	-	-	-
CO07049-1Rus	-	-	-
ND8068-5Rus	ND2667-9Rus X ND4233-1Rus	-	Very early vine maturity, susceptible to common scab, good storage, attractive tubers with gold russet skin, resistant to sugar end defect
W8152-1Rus	A93004-3Rus X CO94035-15Rus	1.6	High yield potential, blocky shape, high specific gravity, long storage potential
W9433-1Rus	Calwhite X A96023-6	1.3	Light russet skin type, less internal defects than Russet Norkotah, tolerance to verticillium wilt and early blight, medium-late maturity, oblong to long blocky tuber type
W9519-3Rus	W1836-3rus X W1151rus	-	Medium maturity
W9742-3Rus	A99134-1 X AOND95249	-	Medium/late maturity
W10043-1Rus	Bannock Russet X Millennium Russet	-	Medium/late maturity
W10074-8Rus	Premier Russet X Freedom Russet	-	Late maturity

*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.