

2015 Statewide Freshpack Potato Variety Trials Overall Average- Six Locations

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	
RED / PURPLE SKIN	MST386-1P ^{ae}	560	592	95	1	69	26	4	1.080	0	23	0	0	1.8	3.8	3.2	large uniform round tuber type, nice purple skin and white flesh
	ND7132-1R ^{acef}	432	485	89	8	77	12	3	1.066	0	28	3	0	1.6	3.5	2.5	uniform oval tuber type, nice red skin color, netted skin
	CO07102-1R ^{ab}	391	459	85	12	84	1	3	1.068	0	5	0	0	3.8	2.0	0.5	nice smooth skin type, good reddish purple color
	Merlot ^{abcdef}	368	505	69	28	69	0	3	1.078	0	17	0	0	1.0	2.6	3.1	oval to oblong shaped tuber type, light red netted skin
	ND6002-1R ^{acef}	363	414	86	12	78	8	2	1.066	0	10	0	0	1.8	3.5	2.0	alligator hide, small uniform tuber type, nice red skin color
	Dakota Ruby ^{abcf}	353	428	79	20	79	0	1	1.074	0	5	0	0	0.5	2.7	1.8	uniform round tubers, nice buff red skin
	Dark Red Norland^{abcef}	331	384	82	16	81	1	2	1.065	0	14	2	0	1.5	3.7	1.4	alligator hide smooth red skin, nice white flesh
ROUND WHITE	Whitney ^g	651	725	90	8	69	21	2	1.053	10	20	0	50	2.0	2.5	2.0	bright white tuber appearance, smooth skin type
	MSU161-1 ^{acef}	481	542	87	11	81	6	2	1.075	0	5	0	0	1.0	3.6	2.9	alligator hide uniform round tuber type, netted skin
	MSS487-2 ^{abdef}	454	522	87	13	83	4	0	1.072	0	0	0	0	1.3	3.1	2.9	uniform round tuber type, heavy netted skin
	MSQ131-A ^{de}	442	497	89	10	81	8	1	1.068	1	3	0	0	1.6	3.1	2.9	uniform round tuber type, bright white skin
	MSS576-5SPL ^{acef}	442	481	90	9	79	11	1	1.071	0	13	0	0	1.8	4.1	2.6	bright white tuber appearance, pink splash around eyes
	Reba^{acdef}	420	470	88	11	79	9	1	1.072	0	2	0	4	1.0	3.6	2.4	tr alligator hide, large oval tuber type, deep apical eyes
	Onaway ^d	292	401	73	18	70	3	9	1.059	0	20	0	0	0.5	3.5	1.5	poor tuber shape, poor overall appearance
YELLOW SKIN	VC1009-1W/Y ^{abcdef}	507	634	78	21	75	3	1	1.079	2	23	0	0	1.1	3.3	3.9	uniform yellow flesh color, flattened tuber shape, sticky stolons
	MSV093-1Y ^{abcdef}	503	554	90	9	84	6	1	1.071	0	15	0	0	0.9	3.5	3.0	alligator hide nice uniform round tuber type, nice yellow flesh
	Soraya ^{abcdef}	464	547	83	12	75	8	5	1.059	0	5	0	2	0.3	3.3	2.5	alligator hide, nice deep yellow flesh, oblong tuber type, points in pickouts
	W9576-11Y ^{bd}	452	588	75	24	74	1	1	1.059	0	25	0	0	0.8	3.0	1.9	tr alligator hide, buff skin type, nice yellow flesh color,
	A05182-7Y ^e	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 present
	W9576-13Y ^{bd}	410	518	80	18	78	2	2	1.074	0	15	0	5	0.5	3.3	2.0	smooth waxy skin, nice yellow flesh color
	W9577-6Y ^{bd}	391	467	83	16	82	1	1	1.070	0	30	5	0	0.0	3.3	2.3	oval tuber type, buff skin type
	Molli^{abcdef}	381	473	77	20	75	2	3	1.069	0	12	2	0	1.3	4.1	1.7	alligator hide oval tuber type, light waxy yellow skin
	MST252-1Y ^{de}	350	432	82	14	74	8	4	1.070	0	15	0	0	0.5	2.3	2.3	netted skin type, gc in pickouts, cream colored flesh
	A02267-1Y ^{abcdef}	342	436	78	21	76	2	1	1.064	0	12	0	0	1.1	3.3	2.7	pink blotching around eyes, yellow flesh
	Lehigh ^d	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
Oneida Gold ^{abcdef}	281	370	75	24	74	1	1	1.075	0	15	0	0	0.4	3.2	2.3	alligator hide, small flat round tuber type, buff skin type	
CO07370-1W/Y ^{be}	268	370	73	23	73	0	4	1.067	0	40	0	0	3.5	2.8	3.0	tr heat sprouts, nice yellow flesh, buff skin	
CO05037-3W/Y ^{abcdef}	159	353	45	54	45	0	1	1.069	0	12	0	0	0.8	3.6	1.3	alligator hide pink blotching around eyes, round tuber type	
MEAN		301	399	74	23	71	4	3	1.070	0	15	0	0	1.1	3.0	2.1	tr = trace, sl = slight, N/A = not available gc=growth crack

2015 Tablestock Variety Trial Sites

- ^a Crawford Farms; Montcalm Co.
- ^b Elmapple Farm; Kalkaska Co.
- ^c Erke Farms, Presque Isle Co.
- ^d Horkey Brothers Farm, Monroe Co.
- ^e Kitchen Farms; Antrim Co.
- ^f VanDamme Farms; Delta Co.

¹SIZE

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

²TUBER QUALITY (percentage of tubers)

- 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

2015 Tablestock Variety Trial Elmapple Farms, Kalkaska County, MI

Harvest 15-Sep-15 125 Days
DD, Base 40⁶ 2436

TUBER TYPE	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	Red Norland	443	487	91	7	88	3	2	1.069	0	40	10	0	0.5	2.5	0.0	light red skin color, sl netted skin, sl alligator hide
	Dakota Ruby	421	484	87	11	87	0	2	1.078	0	0	0	0	1.0	1.2	0.0	medium uniform size tubers, good red skin color, slight buff skin type
	Merlot	402	512	79	20	79	0	1	1.080	0	30	0	0	1.5	1.5	2.5	pear shaped tubers, sl netted skin, medium yellow flesh
	CO07102-1R	332	417	80	16	80	0	4	1.072	0	0	0	0	3.5	1.5	0.0	nice smooth skin type, good reddish purple color
ROUND WHITE	MSS487-2	523	601	87	12	87	0	1	1.079	0	0	0	0	1.5	2.0	2.5	uniform round, netted skin, alligator hide
	W9576-11Y	601	669	90	9	88	2	1	1.062	0	20	0	0	0.5	2.5	0.2	buff skin type, nice medium yellow flesh, tr pinkeye & alligator hide
	Soraya	550	584	94	5	94	0	1	1.059	0	0	0	0	0.5	2.0	1.5	sl pinkeye. buff skin type, oblong tuber type, deep yellow flesh
	MSV093-1Y	532	567	94	5	86	8	1	1.073	0	30	0	0	0.5	2.5	2.5	nice uniform round tuber type, nice yellow flesh, alligator hide
	VC1009-1W/Y	502	575	87	12	85	2	1	1.071	0	30	0	0	2.0	1.5	3.5	uniform yellow flesh color, thin skinned, oblong tuber type
	W9577-6Y	477	544	88	12	88	0	0	1.075	0	30	10	0	0.0	3.5	1.5	tr pink eye, medium yellow flesh
YELLOW	Molli	388	468	83	16	83	0	1	1.071	0	40	10	0	2.0	3.0	0.0	thin, waxy yellow skin
	W9576-13Y	365	462	79	20	79	0	1	1.077	0	20	0	0	1.0	2.5	1.0	possible pvy ntn, smooth waxy skin, round tuber type, light yellow flesh
	Oneida Gold	358	434	82	17	82	0	1	1.078	0	20	0	0	1.0	2.0	2.0	medium yellow flesh, netted skin, sl alligator hide
	A02267-1Y	312	401	78	21	78	0	1	1.062	0	10	0	0	1.5	2.0	1.5	pink blotching around eyes, eyebrowing, light yellow flesh
	CO07370-1W/Y	179	246	73	24	73	0	3	1.073	0	20	0	0	3.0	2.0	3.0	tr heat sprouts, nice yellow flesh, buff skin
	CO05037-3W/Y	142	360	40	59	40	0	1	1.072	0	0	0	0	1.5	2.5	0.0	small overall tuber size, light pink eyes, uniform yellow flesh
MEAN		408	488	82	17	81	1	1	1.072	0	18	2	0	1.3	2.2	1.4	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: 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: 27-Aug-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: Kalkaska
Planting to Vine Kill

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