

2019 Potato Outreach Program On-Farm Variety Trials

Data Summary: Michigan Tablestock (Non-Russet) Variety Trials

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2019 Michigan Statewide Tablestock Potato Variety Trials Overall Averages- Thirteen Locations

LINE	CWT/A		PERCENT OF TOTAL ¹				RAW TUBER QUALITY ⁴ (%)						YELLOW FLESH		RED SKIN			COMMENTS				
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	HH	VD	IBS	BC	COMMON SCAB RATING ⁵	VINE VIGOR ⁷	VINE MATURITY ⁸	WAXINESS ²	FLESH COLOR ⁸		WAXINESS ²	SKIN COLOR ⁹	UNIFORMITY ¹⁰	SILVER SCURF ¹¹
YELLOW SKIN TYPE	Arizona ^{abcdehik}	539	639	84	13	76	8	3	1.062	5	8	0	2	1.8	3.1	2.2	2.3	1.5				oval to long, sl scurf
	MSBB343-2 ^{ghk}	519	569	91	7	91	0	2	1.085	10	38	0	0	1.6	3.8	3.0	1.8	2.1				uniform type, gc in pos
	MSX156-1 ^{abcdegk}	517	554	89	9	85	4	2	1.071	6	4	19	4	1.4	3.2	3.3	2.2	2.0				larger type, buff skin
	Electra ^{abcdehik}	451	582	73	15	70	3	12	1.065	0	10	0	0	0.8	2.8	3.3	2.5	2.7				flat oval type, netted skin
	MSV093-1 ^{acdehij}	423	477	86	13	78	7	2	1.074	1	1	4	3	0.3	3.6	3.1	2.1	2.2				rough netted skin, deep apical ends
	MST252-01 ^{def}	407	523	78	14	78	0	8	1.078	7	17	0	0	0.7	3.2	2.7	2.2	2.2				flattened oval type, sl silver scurf
	Noah ^k	396	495	80	12	79	1	8	1.071	0	13	0	0	0.7	3.5	3.0	2.7	1.3				pointed pos, pitted scab
	Obama ^{abcdeghik}	392	489	75	19	74	2	5	1.066	0	26	0	0	0.8	3.8	2.7	2.5	2.7				oval to oblong, buff skin, mod ah
	Actrice ^{abcdeghik}	384	480	71	24	70	1	5	1.059	2	13	2	1	0.6	2.7	2.5	2.8	2.5				deep apical eyes, oval, netting
	Paroli ^k	383	454	84	10	84	0	6	1.064	0	10	0	0	0.5	4.0	1.5	3.3	2.3				gc in pos, attractive waxy skin
	Fioretta ^{abcdeghik}	380	636	56	36	55	1	8	1.068	0	12	0	0	0.8	3.9	3.2	2.6	3.3				smooth skin, non uniform type
	Yukon Gold ^{abcdehikl}	354	408	85	10	80	5	5	1.082	15	9	1	4	1.2	3.2	2.6	2.7	2.7				netted skin, pitted scab
	NY149 ^{abcdehik}	326	423	72	22	69	3	6	1.081	3	15	1	2	0.7	3.3	2.9	2.5	2.4				netted skin
Captain ^l	319	397	80	12	80	0	8	1.065	0	40	0	0	0.0	3.5	1.5	2.8	1.3				poor shape, blocky	
Picobello ^{hik}	290	483	59	34	59	0	7	1.070	0	11	0	0	1.7	3.2	2.5	2.8	2.2				many misshapen tubers	
Queen Anne ^{abcdeghik}	287	515	54	44	54	0	2	1.060	0	8	0	0	0.5	3.1	2.6	3.9	3.1				oval, bright skin, smooth	
SF Vario ^{abehik}	269	451	55	23	55	0	22	1.065	2	7	4	2	1.3	3.5	2.5	2.4	2.0				buff skin	
Nixie ^t	138	292	47	52	47	0	1	1.079	0	0	0	0	0.2	3.5	2.3	2.7	2.2				small, bright, points in pos	
CO10064-1W/Y ^h	0	92	0	74	0	0	26	1.075	0	0	40	0	0.0	1.5	3.5	1.5	3.5				pointed pos, netted skin	
MEAN	357	472	69	23	68	2	7	1.071	3	13	4	1	0.8	3.3	2.7	2.5	2.3					
RED SKIN TYPE	NDAF113484B-1 ^{abcdehij}	399	451	85	12	81	4	3	1.063	0	20	6	0	0.6	2.7	2.8		3.3	2.6	3.1	2.8	mod scurf and skinning, sl greening
	Red Prairie (W8405-1R) ^{abcdehik}	398	517	73	22	71	3	4	1.066	0	13	18	0	0.9	3.0	3.2		3.3	2.7	3.4	2.0	lighter skin color, points, flattened
	Dark Red Norland ^{abcdehikl}	378	449	83	13	81	2	4	1.064	2	18	7	0	0.5	3.5	2.1		2.8	3.3	3.0	2.3	mod silver scurf, variable skin color
	Roko ^{acdehik}	367	516	67	27	67	0	6	1.074	0	5	22	0	0.7	3.4	3.6		2.8	2.5	3.5	2.2	mod silver scurf, dark skin, oval
	CO99076-6R ^k	359	385	93	5	93	0	2	1.076	0	10	0	0	0.0	3.5	2.3		3.2	3.2	4.0	1.8	sticky stolons, dark skin
	Red Marker #2 ^l	347	388	90	6	87	3	4	1.080	0	20	0	0	0.3	4.0	3.3		2.5	3.0	3.5	2.0	
	Cerata ^h	332	383	87	11	87	0	2	1.068	0	7	0	0	0.2	4.2	3.2		3.3	2.3	4.2	0.0	lighter skin color
	Red Sunset ^{abcdeghik}	325	418	74	24	72	2	2	1.063	0	20	1	0	1.2	3.3	2.3		3.1	2.0	3.1	1.9	variable skin color and finish, silver scurf
	NY164 ^{abcdehik}	314	376	77	19	77	0	4	1.067	0	3	0	0	1.0	3.2	2.9		3.2	2.3	3.4	2.1	mod skinning, uniform type and skin
	CO98012-5R ^{hck}	297	393	55	24	73	0	3	1.073	8	8	5	0	1.9	2.0	2.5		3.5	3.8	3.4	2.5	
	W8893-1R ^{abcdeghik}	232	337	62	34	60	2	4	1.061	6	14	0	1	0.5	3.2	1.7		3.3	2.9	3.3	2.5	nice appearance, silver scurf, attractive skin
	Autumn Rose ^{abcdehik}	216	389	51	41	51	1	7	1.077	0	12	0	0	0.7	3.8	2.8		2.7	2.5	3.8	2.1	
	MSAA182-3R ^{hij}	215	350	62	35	62	0	3	1.081	7	13	0	3	0.3	3.0	3.5		2.7	3.0	3.3	2.3	round, sticky stolons
CO99256-2R ^{hij}	145	182	79	21	79	0	0	1.072	0	0	0	0	0.0	1.5	3.0		3.5	3.0	3.0	3.5	round type, attractive skin color	
Isle Royale (MSX569-1R) ^{hij}	77	117	64	32	64	0	4	1.054	0	19	10	17	0.3	2.3	2.0		3.2	3.4	3.4	1.7	nice skin, sl gc	
MEAN	293	377	73	22	74	1	3	1.069	2	12	5	1	0.6	3.1	2.7		3.1	2.8	3.4	2.1		
ROUND WHITE TYPE	Onaway ^{gh}	590	745	82	12	81	1	6	1.068	0	30	0	0	0.5	3.5	3.0	2.8					deep eyes, non uniform
	AF5819-2 ^{ef}	495	596	83	16	83	0	1	1.082	0	10	0	0	1.0	3.8	2.3	3.0					poor skin finish, nice shape
	MSV179-1 ^{defghi}	490	530	89	5	80	9	6	1.076	6	6	3	0	1.3	3.3	3.8	2.0					large, round, uniform, sl ah
	Superior ^{ef}	457	590	77	16	77	0	7	1.083	0	25	0	0	0.8	4.3	2.0	3.5					dark netted skin
	MSZ551-1 ^{de}	446	499	90	7	90	0	3	1.083	10	10	15	5	1.3	3.0	2.0	2.5					round type, sticky stolons
	White Beauty ^{abcdeghij}	436	534	80	16	77	2	5	1.079	0	4	6	0	0.9	2.8	3.9	2.8					anthocyanins at apical ends, bottlenecking
	Reba ^{def}	433	506	89	6	81	9	4	1.074	30	4	0	0	1.0	3.2	3.0	2.2					deep eyes, variable appearance
	MSW407-7 ^{de}	427	533	80	15	80	0	5	1.085	15	10	0	0	1.3	3.3	3.5	1.5					netted skin, nice shape
	Harmon ^{abcdeghij}	405	557	68	20	65	3	12	1.061	8	7	10	9	0.8	2.5	3.0	2.5					severe gc, nice skin
	AF5280-5 ^{abcdehij}	372	448	76	20	69	7	4	1.066	3	20	1	0	0.9	3.9	2.5	2.6					attractive round shape, sl greening
	Nadine ^{bcdehij}	366	533	70	23	69	1	7	1.061	0	6	14	0	0.9	3.4	2.8	2.4					sl netting, misshapen pos
	Laperla ^k	328	473	69	29	69	0	2	1.061	0	23	0	0	0.0	4.3	1.7	3.2		1.2			smooth, bright skin
	Bridge ^{abcdehik}	305	463	60	35	58	2	5	1.081	0	12	1	1	1.1	3.4	3.1	1.8					flaky, rough skin, netted, long oval
MSX194-3 ^{bcdehij}	297	395	76	22	74	2	2	1.079	0	5	0	0	0.9	3.3	3.4	2.0					rough netted skin, flattened shape	
AAC Hamer ^{abcdehik}	283	385	69	27	66	3	4	1.077	4	8	9	3	1.6	4.0	2.3	2.2					small round, surface scab	
NDAF102629C-4 ^{abcdehij}	267	348	72	20	68	4	8	1.073	0	5	0	0	0.3	3.3	2.4	3.0					bright, sl skinning, round	
Libertie ^{bcdehik}	217	416	47	37	44	3	16	1.066	0	13	0	0	0.8	2.9	2.8	3.3					variable appearance, oblong	
MSZ598-2 ^{gh}	212	292	54	32	53	2	13	1.068	0	10	25	0	1.0	3.5	3.3	2.0					internal defects, mod ah	
MSX398-2 ^{defhij}	171	240	72	25	72	0	3	1.080	25	10	5	15	1.9	2.3	3.0	2.3					round	
WAF13058-1 ^h	49	144	34	51	34	0	15	1.059	0	10	0	0	1.0	3.5	2.5	2.0						
MEAN	352	461	72	22	70	2	6	1.073	5	11	4	2	1.0	3.4	2.8	2.5						

NOVELTY TYPE	MSZ552-5P ^b	416	512	81	16	81	0	3	1.092	60	0	0	0	0.0	3.0	4.0	2.0	4.0	2.5	1.5	sl skinning	
	MSV443-1P ^{a,def}	348	459	67	34	64	0	2	1.072	0	0	0	0	0.6	2.3	3.6	2.4	4.5	3.5	3.0	deep stem ends, gc	
	MSZ436-2SP ^{l,defhi}	310	371	79	18	79	0	3	1.065	0	8	0	0	0.9	3.0	2.9	2.4	0.5	1.5	1.5	minimal splashing, mainly white skin	
	Michigan Purple ^{eddefhi}	308	384	77	17	74	3	6	1.077	2	10	3	0	1.3	3.6	2.4	2.7	2.7	2.7	3.6	light skin, mod skinning	
	MSZ413-6P ^{def}	260	424	70	26	59	11	4	1.078	0	13	0	0	0.6	2.7	3.0	3.2	4.2	3.5	3.8	pointed ends, skinning	
	Blackberry (MSV109-10PP) ^{ad}	225	399	36	62	36	0	2	1.076	0	0	0	0	0.5	2.5	3.5	2.3	5.0	3.3	3.3	mod silver scurf	
MSZ252-2P ^{def}	178	350	46	46	46	0	8	1.081	0	15	0	0	0.0	2.8	3.7	2.5	4.5	3.8	3.3	misshapen pos, variable color		
MSZ416-8R/Y ^{ad}	154	242	55	39	54	1	6	1.069	0	30	5	0	0.0	3.3	3.8	2.5	3.3	3.8	2.8	rough skin texture		
MSZ413-7P ^{ad}	90	197	42	54	42	0	4	1.072	0	0	0	0	0.5	2.8	3.5	3.0	5.0	4.3	3.3	darker skin color, silver scurf		
	MEAN	254	371	61	35	59	2	4	1.076	7	8	1	0	0.5	2.9	3.4	2.5	3.7	3.2	2.9		
	TRIAL MEAN	326	431	70	24	68	2	6	1.072	4	12	4	1	0.8	3.2	2.8	2.5	2.3	2.9	3.2	3.3	2.4

2019 TABLESTOCK VARIETY TRIAL SITES

- a 4-L Farms, Allegan County
- b Crawford Farms, Montcalm County
- c Hampton Potato Growers, Bay County
- d Horkey Brothers, Monroe County
- e Jenkins Farms, Kalkaska County
- f Kitchen Farms, Antrim County
- g Kitchen Farms Mini Bulk, Antrim County
- h Styma Potato Farms, Presque Isle County
- i Verbrigghe Potato Farms, Delta County
- j Walther Farms Early Generation, Tuscola County
- k Walther Farms Replicated, Tuscola County

¹SIZE

Non-russet tablestock
Bs: < 1 7/8"
As: 1 7/8" - 3 1/4"
OV: > 3 1/4"
PO: Pickouts

²SPECIFIC GRAVITY

Data not replicated

³RAW TUBER QUALITY
(percent of tubers out of 10)

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

⁴COMMON SCAB RATING

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

⁵VINE VIGOR RATING

Date: Variable
Rating 1-5
1: Slow emergence
5: Early emergence

⁶VINE MATURITY RATING

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

⁷WAXINESS RATING

1: Heavy netting, buff
5: Waxy, smooth

⁸FLESH COLOR

1: White
5: Dark yellow

⁹SKIN COLOR

1: Light pink
5: Dark red

¹⁰UNIFORMITY OF SKIN COLOR

1: Highly variable, non-uniform
5: Highly uniform, color throughout

¹¹SILVER SCURF

0: No incidence of silver scurf
5: High incidence of silver scurf

2019 Tablestock Potato Variety Trial

4-L Farms

Planting: 5/28/19 Vine Kill: 8/8/19 Harvest: 9/20/19

GDD₄₀: 2190

LINE	CWT/A		PERCENT OF TOTAL ¹						RAW TUBER QUALITY ² (%)					YELLOW FLESH		RED SKIN				COMMENTS						
	US#1	TOTAL	US#1	Cs	Bs	As	OV	PO	SP GR ²	HH	VD	IBS	BC	COMMON SCAB RATINGS ⁵	VINE VIGOR ⁷	VINE MATURITY ⁸	WAXINESS ⁷	FLESH COLOR ⁸	WAXINESS ⁷		SKIN COLOR ⁹	UNIFORMITY ¹⁰	SILVER SCURF ¹¹			
YELLOW SKIN TYPE	Yukon Gold	111	198	56	7	32	56	0	5	1.078	0	10	10	30	0.0	4.0	3.0	3.0	2.0							
	MSV093-1Y	92	166	56	10	32	56	0	2	1.060	0	0	30	20	0.0	3.5	3.0	2.0	2.0					tubers starting to rot in bag		
	MSX156-1Y	89	152	59	11	29	59	0	1	1.065	0	10	80	20	0.5	4.0	4.0	2.5	1.5							
	Arizona	55	219	25	20	49	25	0	6	1.053	0	0	0	10	0.0	2.0	3.0	3.0	1.5							
	Fioretta	41	214	19	25	42	19	0	14	1.062	0	0	0	0	0.0	3.0	3.5	2.0	3.5							
	Electra	33	148	22	19	29	22	0	30	1.057	0	0	0	0	0.0	3.0	4.0	1.0	3.0						rougher skin, attractive type, pointed pos	
	Obama	25	172	15	18	48	15	0	19	1.048	0	20	0	0	0.0	3.0	2.5	2.5	4.0							
	NY149	19	140	13	31	36	13	0	20	1.062	0	0	0	0	0.0	3.0	3.0	2.0	3.0						pink eyes, nice round shape	
	Queen Anne	11	189	6	38	55	6	0	1	1.049	0	0	0	0	0.5	3.0	1.5	3.5	3.5							
	Actrice	7	103	7	54	34	7	0	5	1.055	0	20	0	0	0.0	2.5	2.0	2.0	4.0							
SF Vario	6	275	2	11	14	2	0	73	1.062	0	20	0	0	2.0	3.0	3.0	2.5	3.0								
CO10064-1W/Y	0	92	0	74	0	0	0	26	1.075	0	0	40	0	0.0	1.5	3.5	1.5	3.5						points in pickouts, netted skin		
MEAN	41	172	23	27	33	23	0	17	1.061	0	7	13	7	0.3	3.0	3.0	2.3	2.9								
RED SKIN TYPE	Dark Red Norland	138	228	61	6	31	61	0	2	1.059	0	10	30	0	0.0	2.0	3.0			2.0	4.0	4.5	4.0			
	NDAF113484B-1	90	162	56	10	30	56	0	4	1.042	0	30	50	0	0.0	2.0	2.5			4.0	2.5	4.0	4.0			
	Isle Royale	67	131	51	8	33	51	0	8	1.062	0	10	30	50	1.0	2.0	2.0			2.0	3.0	4.0	4.0		growth cracking	
	Red Prairie	58	225	23	28	37	23	0	12	1.054	0	0	0	0	0.0	3.0	3.5			3.0	2.0	3.5	3.0		dull red, more pink/brown	
	NY164	28	113	25	33	34	25	0	8	1.062	0	0	0	0	0.0	3.0	3.0			4.0	3.0	3.0	4.0		variable silver scurf	
	Red Sunset	27	189	14	42	40	14	0	4	1.052	0	10	0	0	1.0	2.0	2.5			2.0	1.0	3.0	2.5		dull color	
	Roko	21	178	12	37	44	12	0	7	1.053	0	0	50	0	0.5	3.0	3.5			2.0	1.5	3.0	3.5			
	Autumn Rose	8	251	3	36	51	3	0	10	1.073	0	0	0	0	0.5	3.0	3.5			3.5	2.0	4.0	2.5			
	W8893-1R	5	171	3	28	61	3	0	8	1.047	40	0	0	0	0.0	2.0	2.0			4.0	2.5	3.4	3.0			
	MEAN	49	183	28	25	40	28	0	7	1.056	4	7	18	6	0.3	2.4	2.8			2.9	2.4	3.6	3.4			
ROUND WHITE TYPE	Nadine	204	354	58	1	34	58	0	7	1.059	0	0	90	0	0.0	3.0	3.0	0.0								
	White Beauty	146	246	59	4	29	59	0	8	1.074	0	0	10	0	0.0	2.5	3.5	0.0								
	MSV179-1	94	148	63	2	16	63	0	19	1.065	0	0	20	0	0.5	3.0	3.0	2.0								
	WAF13058-1	49	144	34	18	33	34	0	15	1.059	0	10	0	0	1.0	3.5	2.5	2.0								
	AAC Hamer	48	179	27	16	41	27	0	16	1.066	0	20	10	0	0.5	3.5	2.5	3.0								
	NDAF102629C-4	46	163	28	18	33	28	0	21	1.062	0	10	0	0	0.5	4.0	2.5	4.0								
	Harmony	26	159	16	17	35	16	0	32	1.051	0	0	60	0	0.0	2.0	3.0	2.0						gc and points in Pos		
	MSZ598-2	26	107	24	21	35	24	0	20	1.064	0	20	50	0	0.5	3.5	3.5	2.0						poor internal quality		
	AF5280-5	5	171	3	28	61	3	0	8	1.041	0	70	0	0	0.5	3.5	2.5	3.0						round		
	Bridget	1	144	1	70	23	1	0	6	1.066	0	10	0	10	1.0	2.5	3.0	1.0							flaky, rough skin	
Libertie	1	115	1	65	14	1	0	20	1.051	0	20	0	0	0.0	2.0	3.0	2.5									
MEAN	59	175	29	24	32	29	0	16	1.060	0	15	22	1	0.4	3.0	2.9	2.0									
NOVELTY TYPE	MSZ413-6P	129	326	73	6	21	40	33	0	1.069	0	0	0	0	0.0	2.0	3.0			3.0	3.5	4.0	4.0			
	Michigan Purple	115	197	58	7	26	58	0	9	1.069	0	20	0	0	0.5	3.0	2.5			3.0	2.5	3.0	4.5		lighter purple, moderate scurf	
	MSZ436-2SPL	104	200	52	13	31	52	0	4	1.069	0	0	0	0	0.0	2.0	3.0	3.0			0.0	0.0	0.0		minimal splashing, sil black dot	
	MSZ252-2P	70	237	29	21	38	29	0	12	1.069	0	0	0	0	0.0	3.0	4.0	4.0			2.0	4.0	4.0	3.5		lots of silver scurf, some misshapen tubers
	MSZ416-8RY	49	154	32	27	38	32	0	3	1.069	0	20	10	0	0.0	3.0	3.5			1.5	2.5	3.5	2.5		rough skin texture	
	MSV443-1PP	39	207	19	28	48	19	0	5	1.069	0	0	0	0	0.0	2.0	4.0	4.0			2.0	4.0	4.0	4.0		scurf, variable purple and white flesh
	MSZ413-7PP	26	167	15	30	49	15	0	6	1.069	0	0	0	0	0.0	3.0	4.0			2.0	5.0	3.5	4.0		white and purple flesh	
Blackberry (MSV109-10PP)	5	147	3	66	28	3	0	3	1.069	0	0	0	0	0.0	2.0	3.5			2.0	5.0	3.5	2.5		purple flesh		
MEAN	67	204	35	25	35	31	4	5	1.069	0	5	1	0	0.1	2.5	3.4			3.0	1.0	1.9	3.3	3.2	3.1		
TRIAL MEAN	53	182	28	25	35	27	1	12	1.061	1	9	14	4	0.3	2.8	3.0			2.2	2.7	2.5	2.8	3.4	3.3		

¹SIZE
Non-russet tablestock
Cs: < 1 1/2"
Bs: 1 1/2" - 1 7/8"
As: 1 7/8" - 3 1/4"
OV: > 3 1/4"
PO: Pickouts

²SPECIFIC GRAVITY
Data not replicated

³RAW TUBER QUALITY
(percent of tubers out of 10)
HH: Hollow Heart
VD: Vascular Discoloration
IBS: Internal Brown Spot
BC: Brown Center

⁴COMMON SCAB RATING
0.0: Complete absence of surface or pitted lesions
1.0: Presence of surface lesions
2.0: Pitted lesions on tubers, though coverage is low
3.0: Pitted lesions common on tubers
4.0: Pitted lesions severe on tubers
5.0: More than 50% of tuber surface area covered in pitted lesions

⁵VINE VIGOR RATING
Date: 7/5/19
Rating 1-5
1: Slow emergence
5: Early emergence

⁶VINE MATURITY RATING
Date: 8/14/19
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

FIELD DATA
Planting Date: 5/28/19
Vine Kill Date: 8/8/19
Harvest Date: 9/20/19
Days (planting to vine kill): 72
Days (planting to harvest): 115
GDD₄₀ MAWN Station: Allegan
GDD₄₀ (planting to vine kill): 2190
Seed Spacing: 6"

⁷WAXINESS RATING
1: Heavy netting, buff
5: Waxy, smooth

⁸FLESH COLOR
1: White
5: Dark yellow

⁹SKIN COLOR
1: Light pink
5: Dark red

¹⁰UNIFORMITY OF SKIN COLOR
1: Highly variable, non-uniform
5: Highly uniform, color throughout

¹¹SILVER SCURF
0: No incidence of silver scurf
5: High incidence of silver scurf

2019 Tablestock Potato Variety Trial

Crawford Farms

Planting: 6/7/19 Vine Kill: 9/16/19 Harvest: 10/28/19
GDD₄₀: 2748

LINE	CWT/A	PERCENT OF TOTAL ¹						RAW TUBER QUALITY ² (%)						YELLOW FLESH			RED SKIN			COMMENTS			
		US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	HH	VD	IBS	BC	COMMON SCAB RATING ⁵	VINE VIGOR ⁷	VINE MATURITY ⁸	WAXINESS ⁷	FLESH COLOR ⁸	WAXINESS ⁷		SKIN COLOR ⁹	UNIFORMITY ¹⁰	SILVER SCURF ¹¹
YELLOW SKIN TYPE	Arizona	502	618	81	18	81	0	1	1.063	0	0	0	0	0.0	3.0	3.5	2.5	1.5					greening, rougher appearance, less bright
	Obama	488	588	83	14	83	0	3	1.069	0	0	0	0	0.0	3.5	2.0	2.0	3.0					textured, flaky skin
	Electra	474	579	82	9	82	0	9	1.061	0	10	0	0	0.0	2.0	3.0	3.0	3.5					points, pears, bottlenecking
	Actrice	403	482	84	13	84	0	3	1.060	0	20	0	0	0.5	1.5	2.0	2.0	3.0					deep eyes and eyebrows, smooth skin
	Fioretta	351	566	62	30	62	0	8	1.071	0	0	0	0	0.0	4.0	3.0	2.5	3.5					misshapen pos, points and knobs
	MSX156-1Y	338	404	84	9	82	2	7	1.067	20	0	0	0	0.5	1.0	2.0	2.0	2.5					gc in po, netting, round
	NY149	306	347	88	12	88	0	0	1.083	30	0	0	10	0.0	3.0	2.5	2.0	2.0					
SF Varlo	280	451	62	30	62	0	8	1.065	10	0	0	0	0.5	4.0	3.0	2.5	2.0					smooth bright skin	
Yukon Gold	274	330	83	7	83	0	10	1.088	50	0	0	0	1.0	1.5	2.0	3.0	3.0	3.0					misshapen pos,
Queen Anne	235	424	56	43	56	0	1	1.059	0	0	0	0	0.0	1.5	3.0	4.0	2.0					oval, nice, bright	
	MEAN	365	479	77	19	76	0	5	1.069	11	3	0	1	0	2.5	2.6	2.6	2.6					
RED SKIN TYPE	Red Prairie	463	618	75	21	75	0	4	1.067	0	20	0	0	1.5	2.0	2.5			3.0	2.5	3.0	3.0	pitted scab lesions, some points
	NY164	358	443	81	12	81	0	7	1.067	0	0	0	0	0.5	2.5	2.0			3.0	2.5	4.0	1.0	
	Red Sunset	338	409	83	16	83	0	1	1.060	0	0	0	0	0.0	3.0	2.5			3.5	2.0	4.0	0.0	skinning, uniform
	Dark Red Norland	328	387	85	10	85	0	5	1.063	10	0	0	0	0.0	3.0	1.5			3.0	3.0	2.5	1.0	misshapen pos, mod scurf
	NDAF113484B-1	306	368	83	12	83	0	5	1.065	0	0	0	0	0.0	2.0	3.0			2.5	3.0	3.0	3.0	mod scurf
	W8893-1R	265	357	74	23	74	0	3	1.058	10	0	0	0	0.0	4.0	1.0			2.5	3.5	4.0	1.5	mod scurf, nice red skin
Autumn Rose	187	347	54	38	54	0	8	1.079	0	0	0	0	0.0	3.5	3.5			2.5	3.5	3.0	2.0	nice red skin, no skinning, poor type, gc	
CO98012-5R								1.077	20	10	20	0		1.0	3.5			3.0	3.5	3.0	1.5		
	MEAN	321	418	76	19	76	0	5	1.066	3	3	0	0	2.9	2.4			2.9	2.9	3.4	1.6		
ROUND WHITE TYPE	Harmony	486	653	74	8	74	0	18	1.064	0	0	30	0.5	1.5	3.0			2.0					nice skin, poor appearance, severe gc
	Reba	419	489	86	9	84	2	5	1.073	0	0	0	0.0	2.0	2.0	2.5							deep eyes in larger tubers, smooth and bright
	AF5280-5	349	401	87	11	87	0	2	1.068	0	0	0	0	0.0	4.0	1.5	2.0						tr ah
	Nadine	349	490	71	18	71	0	11	1.061	0	10	0	0	0.0	3.0	3.5	3.0						netted rougher skin
	Bridget	335	442	76	22	76	0	2	1.081	0	0	0	0	0.5	3.0	3.0	2.0						
	NDAF102629C-4	288	359	80	8	80	0	12	1.078	0	0	0	0	0.0	2.5	2.0	2.5						round and blocky
MSX194-3	278	391	71	26	71	0	3	1.079	0	0	0	0	0.0	3.0	3.0	2.5						sl ah, rougher skin	
White beauty	270	390	69	27	69	0	4	1.078	0	0	0	0	0.0	3.0	4.0	4.0						bright appearance, nice	
AAC Hamer	237	311	76	19	76	0	5	1.085	20	0	0	0	2.0	3.0	2.0	3.5							
	MEAN	335	436	77	16	76	0	7	1.074	2	1	0	3	0	2.7	2.7							
NOVELTY TYPE	MSZ552-5P	416	512	81	16	81	0	3	1.092	60	0	0	0	0.0	3.0	4.0			2.0	4.0	2.5	1.5	sl skinning
	MSV443-1PP	355	421	84	16	84	0	0	1.068	0	0	0	0	0.0	1.5	3.0			2.0	5.0	3.5	2.0	
	MEAN	386	467	83	16	83	0	2	1.080	30	0	0	0	0	2.3	3.5			2	5	3	2	
TRIAL MEAN	346	449	77	18	77	0	5	1.071	8	2	1	1	0.3	2.6	2.6	2.6	2.6	2.7	3.3	3.3	1.7		

¹SIZE
Non-russet tablestock
Bs: < 1 7/8"
As: 1 7/8" - 3 1/4"
OV: > 3 1/4"
PO: Pickouts

²SPECIFIC GRAVITY
Data not replicated

³RAW TUBER QUALITY
(percent of tubers out of 10)
HH: Hollow Heart
VD: Vascular Discoloration
IBS: Internal Brown Spot
BC: Brown Center

⁴COMMON SCAB RATING
0.0: Complete absence of surface or pitted lesions
2.0: Pitted lesions on tubers, though coverage is low
3.0: Pitted lesions common on tubers
4.0: Pitted lesions severe on tubers
5.0: More than 50% of tuber surface area covered in pitted lesions

⁵VINE VIGOR RATING
Date: 7/5/19
Rating 1-5
1: Slow emergence
5: Early emergence

⁶VINE MATURITY RATING
Date: 8/30/19
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

FIELD DATA
Planting Date 6/7/19
Vine Kill Date 9/16/19
Harvest Date 10/28/19
Days (planting to vine kill) 101
Days (planting to harvest) 143
GDD₄₀ MAWN Station Entrican
GDD₄₀ (planting to vine kill) 2748
Seed Spacing 10"

⁷WAXINESS RATING
1: Heavy netting, buff
5: Waxy, smooth

⁸FLESH COLOR
1: White
5: Dark yellow

⁹SKIN COLOR
1: Light pink
5: Dark red

¹⁰UNIFORMITY OF SKIN COLOR
1: Highly variable, non-uniform
5: Highly uniform, color throughout

¹¹SILVER SCURF
0: No incidence of silver scurf
5: High incidence of silver scurf

2019 Tablestock Potato Variety Trial Hampton Potato Growers

Planting: 4/29/19 Vine Kill: 9/1/19 Harvest: 9/11/19
GDD₄₀: 3169

LINE	CWT/A	PERCENT OF TOTAL ¹						RAW TUBER QUALITY ⁴ (%)						YELLOW FLESH		RED SKIN				COMMENTS					
		US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	HH	VD	IBS	BC	COMMON SCAB RATING ⁵	VINE VIGOR ⁷	VINE MATURITY ⁸	WAXINESS ⁷	FLESH COLOR ⁸	WAXINESS ⁷		SKIN COLOR ⁹	UNIFORMITY ¹⁰	SILVER SCURF ¹¹		
YELLOW SKIN TYPE	MSK156-1Y	831	862	97	1	93	4	2	1.071	0	20	0	0	3.0	Not	3.0	3.0	2.0						pitted scab lesions, greening	
	Electra	796	888	90	9	90	0	1	1.068	0	20	0	0	1.8	Taken	1.0	2.0	2.5						heavier netted skin, pointed and misshapen tubers	
	Arizona	724	849	86	11	84	2	3	1.057	0	0	0	0	2.8		1.5	2.5	1.5						oval tuber type, nice skin, moderate scab	
	MSV093-1Y	670	731	92	7	92	0	1	1.078	0	10	0	0	0.5		2.5	2.0	2.5						buff skin, deep apical ends	
	Actrice	640	711	90	8	89	1	2	1.054	0	10	0	0	0.5		3.0	4.0	2.5						nice skin finish, oval tubers	
	Obama	506	631	80	18	80	0	2	1.063	0	70	0	0	1.0		2.5	1.5	1.5						variable type, rougher skin	
	Fioretta	359	771	47	48	47	0	5	1.073	0	30	0	0	1.3		1.5	2.5	3.5						pointed tubers	
	NY149	338	458	74	23	74	0	3	1.083	0	30	10	10	1.5		2.0	2.4	2.0						pink eyes, light netted skin	
Queen Anne	272	541	50	48	50	0	2	1.056	0	30	0	0	0.0		2.5	4.5	3.0								
	MEAN	571	716	78	19	78	1	2	1.067	0	24	1	1	1.4		2.2	2.7	2.3							
RED SKIN TYPE	Roko	692	871	79	16	79	0	5	1.078	0	0	100	0	1.5		3.0			2.5	2.5	4.0	1.0		oval to oblong tuber type	
	NDAF113484B-1	472	532	89	8	89	0	3	1.064	0	20	0	0	0.8		2.0			4.0	3.0	2.0	4.5		deep eyes	
	CO98012-5R	411	557	74	24	74	0	2	1.071	0	0	0	0	3.5		1.5			4.0	4.0	3.5	3.5		severe pitted scab	
	Red Sunset	370	503	74	25	74	0	1	1.059	0	50	0	0	3.0		2.5			4.0	2.0	2.0	3.0		variable skin color, skinning	
	W8893-1R	361	461	78	15	78	0	7	1.055	0	50	0	10	0.5		2.5			3.5	3.5	2.5	4.0		scurf, greening, misshapen pickouts	
	Dark Red Norland	276	383	72	27	72	0	1	1.064	0	10	0	0	1.0		1.5			3.5	4.0	1.5	1.0		variable skin color, no skinning	
Autumn Rose	173	331	52	45	52	0	3	1.067	0	50	0	0	0.5		2.0			3.0	2.0	4.0	3.0		attractive oval tuber type, smooth skin		
	MEAN	394	520	74	23	74	0	3	1.065	0	26	14	1	1.5		2.1			3.5	3.0	2.8	2.9			
ROUND WHITE TYPE	White Beauty	611	729	84	12	84	0	4	1.082	0	0	40	0	2.0		2.0			2.5					misshapen pickouts	
	Harmony	560	749	75	21	75	0	4	1.054	0	10	0	0	1.5		1.5			3.0						
	AAC Hamer	431	552	74	25	74	0	1	1.072	10	20	40	20	3.5		2.0			2.0					greening, pitted scab lesions	
	Bridget	398	634	63	32	63	0	5	1.078	0	20	0	0	2.0		2.5			1.0					rough netted skin type, pointed tubers	
	MEAN	500	666	74	23	74	0	4	1.072	3	13	20	5	2.3		2.0			2.1						
TRIAL MEAN		495	637	76	21	76	0	3	1.067	1	23	10	2	1.6		2.1			2.5	2.3	3.5	3.0	2.8	2.9	

¹SIZE

Non-russet tablestock
Bs: < 1 7/8"
As: 1 7/8" - 3 1/4"
OV: > 3 1/4"
PO: Pickouts

²SPECIFIC GRAVITY

Data not replicated

³RAW TUBER QUALITY

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

⁴COMMON SCAB RATING

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

⁵VINE VIGOR RATING

Date: Not Taken
Rating 1-5
1: Slow emergence
5: Early emergence

⁶VINE MATURITY RATING

Date: 8/16/19
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

FIELD DATA

Planting Date 4/29/19
Vine Kill Date 9/1/19
Harvest Date 9/11/19
Days (planting to vine kill) 125
Days (planting to harvest) 135
GDD₄₀ MAWN Station Munger
GDD₄₀ (planting to vine kill) 3169
Seed Spacing 10"

⁷WAXINESS RATING

1: Heavy netting, buff
5: Waxy, smooth

⁸FLESH COLOR

1: White
5: Dark yellow

⁹SKIN COLOR

1: Light pink
5: Dark red

¹⁰UNIFORMITY OF SKIN COLOR

1: Highly variable, non-uniform
5: Highly uniform, color throughout

¹¹SILVER SCURF

0: No incidence of silver scurf
5: High incidence of silver scurf

2019 Tablestock Potato Variety Trial

Horkey Brothers

Planting: 5/16/19 Vine Kill: 9/4/19 Harvest: 9/26/19
GDD₅₀: 3285

LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ⁴ (%)					YELLOW FLESH		RED SKIN			COMMENTS					
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	HH	VD	IBS	BC	COMMON SCAB RATING ⁵	VINE VIGOR ⁷	VINE MATURITY ⁸	WAXINESS ⁹	FLESH COLOR ⁶		WAXINESS ⁹	SKIN COLOR ³	UNIFORMITY ¹⁰	SILVER SCURF ¹¹	
YELLOW SKIN TYPE	MSX156-1Y	657	695	95	2	95	0	3	1.065	0	0	30	0	3.3	3.5	3.0	1.5	2.5				large, round, uniform type and size	
	MSV093-1Y	604	670	90	7	90	0	3	1.071	0	0	0	0	0.5	3.5	1.5	2.0	3.0				uniform type, trace sticky stolons, light netted skin	
	MSBB343-2Y	440	495	89	9	89	0	2	1.083	0	50	0	0	1.5	3.5	2.5	1.0	2.0				uniform round tuber type	
	Yukon Gold	417	480	87	8	87	0	5	1.071	0	40	0	0	4.0	3.0	2.0	2.0	3.0					
	Arizona	396	517	76	18	74	2	6	1.052	0	30	0	0	2.0	3.5	1.5	3.0	2.0				bottlenecking, black scurf	
	Obama	383	529	72	17	72	0	11	1.059	0	80	0	0	1.8	5.0	2.5	2.0	2.5				bright appearance, mod ah	
	MST252-01Y	377	522	72	17	72	0	11	1.066	10	20	0	0	1.0	3.5	2.0	2.0	2.5				uniform oval tuber type, poor appearance	
	Electra	354	701	51	17	51	0	32	1.058	0	20	0	0	1.8	3.5	2.0	3.5	3.5				apical knobbing, misshapen, bottlenecking	
	Queen Anne	346	717	48	47	48	0	5	1.052	0	20	0	0	1.3	3.5	1.5	4.5	4.0				sl heat sprouts, apical knobbing	
	NY149	297	443	67	26	67	0	7	1.072	0	20	0	0	2.0	3.5	3.5	2.0	2.5				pinkeye, bottlenecking	
Fioretta	278	668	42	48	42	0	10	1.058	0	20	0	0	0.8	3.5	3.0	1.5	4.0				heat knobs and sprouts, non uniform type, oblong to long		
Actrice	232	477	49	19	49	0	32	1.044	0	0	0	0	2.8	3.5	1.5	4.0	4.0				oval to oblong, bottlenecking, heat sprouts, knobs		
	MEAN	398	576	70	20	70	0	11	1.063	1	25	3	0	1.9	3.6	2.2	2.4	3.0					
RED SKIN TYPE	NDAF113484B-1	421	490	86	7	86	0	7	1.056	0	40	0	0	1.5	3.5	2.0		3.0	2.0	1.0	2.0	skinning, moderate silver scurf	
	Roko	417	593	70	22	70	0	8	1.072	0	0	10	0	2.0	3.5	3.0		3.5	2.5	3.0	5.0	severe scab and silver scurf, oblong type	
	NY164	401	440	91	5	91	0	4	1.061	0	10	0	0	3.5	3.5	2.0		3.0	2.5	3.0	4.0	blocky, poor appearance	
	Red Prairie	338	524	65	30	65	0	5	1.056	0	20	0	0	3.5	3.5	2.5		4.0	3.0	4.0	3.0	tuber bottlenecking	
	Red Sunset	308	459	67	32	67	0	1	1.058	0	40	0	0	3.0	3.5	2.0		3.0	2.5	2.0	4.0	severe silver scurf, oval type	
	Dark Red Norland	292	367	80	18	80	0	2	1.057	0	50	0	0	0.5	4.0	2.0		2.5	3.0	4.0	3.5	moderate silver scurf	
	Autumn Rose	261	424	62	34	62	0	4	1.070	0	0	0	0	0.8	3.5	2.0		3.0	2.5	5.0	3.0	moderate silver scurf, oval type	
W8893-1R	95	192	49	50	49	0	1	1.053	0	40	0	0	0.0	3.5	1.0		2.5	2.0	1.0	2.0	severe silver scurf		
	MEAN	348	471	71	25	71	0	4	1.060	0	25	1	0	1.9	3.6	2.1		3.1	2.5	2.9	3.3		
ROUND WHITE TYPE	Onaway	688	953	72	21	72	0	7	1.061	0	60	0	0	0.5	3.5	2.5	2.5					deep eyes, non uniform	
	MSV179-1	525	569	92	2	92	0	6	1.069	0	0	0	0	1.5	3.5	3.0						large, round, uniform type and size	
	White Beauty	502	634	79	12	79	0	9	1.073	0	0	0	0	2.3								oval type, bottlenecking	
	Harmony	482	820	59	16	59	0	25	1.054	0	0	0	0	2.7	3.0	3.0		4.0				bottlenecking, growth crack, oblong	
	MSZ551-1	471	534	88	9	88	0	3	1.079	10	10	0	10	2.0	3.0	1.5		2.5				round type, sticky stolons	
	AF5280-5	457	542	84	12	84	0	4	1.058	0	40	0	0	3.0	3.5	2.0		2.5				non uniform type	
	MSW407-7	416	520	80	19	80	0	1	1.078	0	0	0	0	1.8	3.5	2.5		2.0				nice general appearance, netted skin type	
	Nadine	348	559	62	26	62	0	12	1.050	0	10	10	0	2.5	4.0	1.5		4.0					bottlenecking, growth crack, bright appearance, oblong
	AAC Hamer	311	425	73	25	73	0	2	1.069	0	0	0	0	3.5	3.5	1.5		1.5					
	Bridget	307	487	63	27	63	0	10	1.076	0	10	10	0	2.5	4.0	3.0		2.0					oblong type, netted skin
	Reba	294	472	84	12	84	0	4	1.068	20	0	0	0	2.5	4.5	3.0		2.0					bright, non uniform
MSX194-3	273	396	69	29	69	0	2	1.064	0	0	0	0	1.8	3.0	2.5		3.0					round, small, uniform	
NDAF102629C-4	269	363	74	25	74	0	1	1.060	0	0	0	0	1.0	3.5	1.5		3.5					bright, round type	
MSX398-2	207	299	69	25	69	0	6	1.066	0	20	20	10	2.0	3.5	3.5		2.5					severe surface scab	
Libertie	66	487	14	31	14	0	55	1.053	0	0	0	0	3.0	3.5	3.0							variable appearance, severe bottlenecking	
	MEAN	374	537	71	19	71	0	10	1.065	2	10	3	1	2.1	3.5	2.4	2.7						
NOVELTY	Michigan Purple	213	330	64	16	64	0	20	1.059	0	0	20	0	2.5	3.5	1.5		3.5	2.0	2.5	4.0	variable, light skin, misshapen	
TRIAL MEAN		365	522	70	21	70	0	9	1.063	1	18	3	1	2.0	3.6	2.2	2.6	3.0	3.1	2.4	2.8	3.4	

¹SIZE

Non-russet tablestock
Bs: < 1 7/8"
As: 1 7/8" - 3 1/4"
OV: > 3 1/4"
PO: Pickouts

²SPECIFIC GRAVITY

Data not replicated

³RAW TUBER QUALITY

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

⁴COMMON SCAB RATING

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

⁵VINE VIGOR RATING

Date: 6/25/19
Rating 1-5
1: Slow emergence
5: Early emergence

⁶VINE MATURITY RATING

Date: 8/30/19
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

FIELD DATA

Planting Date 5/16/19
Vine Kill Date 9/4/19
Harvest Date 9/26/19
Days (planting to vine kill) 111
Days (planting to harvest) 133
GDD₅₀ MAWN Station Deerfield
GDD₅₀ (planting to vine kill) 3285
Seed Spacing 10"

⁷WAXINESS RATING

1: Heavy netting, buff
5: Waxy, smooth

⁸FLESH COLOR

1: White
5: Dark yellow

⁹SKIN COLOR

1: Light pink
5: Dark red

¹⁰UNIFORMITY OF SKIN COLOR

1: Highly variable, non-uniform
5: Highly uniform, color throughout

¹¹SILVER SCURF

0: No incidence of silver scurf
5: High incidence of silver scurf

2019 Tablestock Potato Variety Trial

Kitchen Farms

Planting: 5/14/19 Vine Kill: 8/25/19 Harvest: 10/7/19

GDD₄₀: 2232

LINE	CWT/A	PERCENT OF TOTAL ¹						RAW TUBER QUALITY ⁴ (%)						YELLOW FLESH			RED SKIN			COMMENTS					
		US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	HH	VD	IBS	BC	COMMON SCAB RATING ⁵	VINE VIGOR ⁷	VINE MATURITY ⁸	WAXINESS ⁷	FLESH COLOR ³	WAXINESS ⁷		SKIN COLOR ⁹	UNIFORMITY ¹⁰	SILVER SCURF ¹¹		
YELLOW SKIN TYPE	MSBB343-2Y	649	700	93	6	93	0	2	1.091	30	40	0	0	2.0	3.5	4.0	2.0	2.5						surface and pitted lesions, attractive round type	
	Yukon Gold	566	624	91	6	91	0	4	1.086	50	0	0	0	3.0	3.0	2.5	4.0	3.0						some pitted lesions, poor skin appearance	
	MST252-01Y	466	546	86	10	86	0	5	1.090	0	0	0	0	0.0	3.0	3.5	2.5	2.0						slight silver scurf, misshapen pos, flattened type	
	Arizona	461	544	85	14	85	0	2	1.068	10	0	0	0	1.0	3.0	1.5	2.5	1.0						oval to long tuber shape	
	NY149	455	537	85	13	85	0	2	1.089	0	10	0	0	0.5	3.0	3.0	3.0	3.0						netted skin, pink eyes, sl flattened type	
	Picobello	151	475	32	59	32	0	10	1.081	0	10	0	0	3.5	3.0	1.5	2.5	2.5						scab, misshapen tubers, smooth skin	
	MSV093-1Y													3.0	2.5										
	SF Vario													3.5	1.5										
	MEAN	458	571	79	18	79	0	4	1.084	15	10	0	0	1.7	3.1	2.5	2.8	2.3							
RED SKIN TYPE	Dark Red Norland	457	531	86	13	86	0	1	1.068	0	10	0	0	0.5	3.5	2.0			2.5	3.0	3.0	3.0	3.0	moderate silver scurf	
	Red Prairie	433	549	79	20	79	0	2	1.077	0	0	90	0	2.0	2.5	3.5			3.0	2.0	4.0	2.0		flattened shape, some pointed tuebrs	
	NDAF113484B-1	415	468	89	10	89	0	1	1.076	0	0	0	0	1.5	3.0	3.5			2.0	2.5	4.0	3.0		surface scab, nice bright appearance	
	Roko	320	512	62	36	62	0	1	1.087	0	0	0	0	0.0	3.0	3.0			3.0	2.0	4.0	3.0		moderate silver scurf	
	NY164	266	334	79	18	79	0	2	1.081	0	0	0	0	2.5	2.5	2.0			2.5	2.0	3.0	4.0		attractive red skin, surface and pitted scab	
	Autumn Rose													4.0	1.5										
	MEAN	378	479	79	19	79	0	1	1.078	0	2	18	0	1.3	3.1	2.6			2.6	2.3	3.6	3.0	3.0		
ROUND WHITE TYPE	MSV179-1	589	623	95	3	95	0	2	1.087	30	10	0	0	2.5	3.0	4.0	1.5							poor appearance, alligator hide	
	Nadine	586	897	65	28	65	0	7	1.066	0	0	0	0	2.0	3.0	2.5	2.5							common and powdery scab, misshapen pos	
	AF5819-2	574	646	89	11	89	0	0	1.084	0	0	0	0	1.0	4.0	2.5	3.0							poor skin finish, nice shape	
	Superior	529	655	81	13	81	0	6	1.086	0	10	0	0	1.0	4.5	2.0	3.5							poor shape, variable skin netting	
	AF5280-5	518	587	88	8	88	0	4	1.079	0	0	0	0	2.5	4.5	2.5	3.0							attractive round shape	
	Reba	496	547	91	8	91	0	2	1.077	50	10	0	0	2.0	4.0	2.5	2.0								poor appearance, variable skin finish
	MSZ598-2	398	476	84	10	81	3	6	1.072	0	0	0	0	1.5	3.5	3.0	2.0							waxy skin, lots of alligator hide	
	MSX194-3	269	383	70	29	70	0	1	1.088	0	10	0	0	2.0	3.5	3.5	1.5								surface scab, flattened shape
	Bridget	234	514	46	54	46	0	1	1.098	0	10	0	0	0.5	3.0	3.5	2.5								long oval shape, trace purple pigmentation
	MSX398-2	213	269	79	12	79	0	10	1.080	40	0	0	10	2.5	2.0	3.0	2.5								poor shape and appearance
	AAC Hamer	204	405	50	49	50	0	1	1.082	0	0	0	0	2.0	3.5	2.0	1.5							surface scab, small round type	
	NDAF102629C-4													3.0	1.0										
	MEAN	419	546	76	20	76	0	4	1.082	11	5	0	1	1.8	3.5	2.7	2.3								
NOVELTY TYPE	MSZ436-2SPL	550	607	91	7	91	0	3	1.066	0	0	0	0	3.0	3.5	3.0			3.0	1.0	3.0	3.0		deep apical ends, poor shape	
	MSV443-1PP	464	565	82	16	82	0	1	1.078	0	0	0	0	1.8	2.5	3.5			2.0	4.0	3.5	3.0			
	Blackberry (MSV109-10PP)	445	651	68	31	68	0	1	1.082	0	0	0	0	1.0	3.0	3.5			2.5	5.0	3.0	4.0		moderate silver scurf	
	Michigan Purple	345	458	75	24	75	0	1	1.101	0	20	0	0	0.0	3.0	1.5			2.0	1.0	2.0	4.0		moderate silver scurf	
	MSZ413-6P	331	504	66	30	66	0	4	1.085	0	0	0	0	1.3	3.0	2.5			2.5	4.0	3.5	3.5			
	MSZ252-2P													2.0	4.0										
	MEAN	427	557	76	22	76	0	2	1.082	0	4	0	0	1.4	2.8	3.0			2.4	3.0	3.0	3.5	3.5		
	TRIAL MEAN	422	541	77	20	77	0	3	1.082	8	5	3	0	1.6	3.2	2.7	2.5	2.3	2.5	2.7	3.3	3.3	3.3		

¹**SIZE**

Non-russet tablestock
Bs: < 1 7/8"
As: 1 7/8" - 3 1/4"
OV: > 3 1/4"
PO: Pickouts

²**SPECIFIC GRAVITY**

Data not replicated

³**RAW TUBER QUALITY**

(percent of tubers out of 10)

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

⁴**COMMON SCAB RATING**

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

⁵**VINE VIGOR RATING**

Date: 6/24/19
Rating 1-5
1: Slow emergence
5: Early emergence

⁶**VINE MATURITY RATING**

Date: 8/23/19
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

FIELD DATA

Planting Date 5/14/19
Vine Kill Date 8/25/19
Harvest Date 10/7/19
Days (planting to vine kill) 103
Days (planting to harvest) 146
GDD₄₀ MAWN Station Kalkaska
GDD₄₀ (planting to vine kill) 2232
Seed Spacing 10"

⁷**WAXINESS RATING**

1: Heavy netting, buff
5: Waxy, smooth

⁸**FLESH COLOR**

1: White
5: Dark yellow

⁹**SKIN COLOR**

1: Light pink
5: Dark red

¹⁰**UNIFORMITY OF SKIN COLOR**

1: Highly variable, non-uniform
5: Highly uniform, color throughout

¹¹**SILVER SCURF**

0: No incidence of silver scurf
5: High incidence of silver scurf

2018 Tablestock Potato Variety Trial

Kitchen Farms Mini Bulk

Planting: 5/14/19 Vine Kill:8/25/19 Harvest: 10/7/19

GDD₄₀: 2232

LINE	CWT/A	PERCENT OF TOTAL ¹						RAW TUBER QUALITY ⁴ (%)						YELLOW FLESH		RED SKIN				COMMENTS					
		US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	HH	VD	IBS	BC	COMMON SCAB RATING ⁵	VINE VIGOR ⁷	VINE MATURITY ⁸	WAXINESS ⁷	FLESH COLOR ⁸	WAXINESS ⁷		SKIN COLOR ⁹	UNIFORMITY ¹⁰	SILVER SCURF ¹¹		
YELLOW SKIN TYPE	MSX156-1Y	640	657	98	2	94	4	0	1.086	20	0	10	10	1.0	4.0	4.5	1.5	2.0						blocky shape	
	Actrice	573	671	85	13	85	0	2	1.068	20	0	10	0	1.0	3.0	3.0	3.0	3.0						nice smooth skin	
	Electra	521	631	83	15	83	0	2	1.073	0	0	0	0	1.0	3.0	4.5	3.0	2.5							
	Obama	491	580	85	12	85	0	3	1.075	0	0	0	0	1.0	4.5	2.5	2.5	2.0							
	Queen Anne	339	621	55	41	55	0	4	1.068	0	0	0	0	1.0	3.5	3.0	4.0	3.0							pitted scab
	Fioretta	317	677	47	50	47	0	3	1.074	0	10	0	0	2.0	4.0	3.5	3.0	2.5							
	MEAN	480	640	76	22	75	1	2	1.074	7	2	3	2	1.2	3.7	3.5	2.8	2.6							
RED SKIN TYPE	Red Sunset	479	590	81	19	81	0	0	1.076	0	20	0	0	2.0	4.0	2.0			2.5	2.0	4.0	3.0		powdery scab, inconsistent skin color	
	W8893-1R	334	499	67	32	67	0	1	1.075	0	20	0	0	3.0	4.0	1.5			2.5	3.0	4.0	3.5		powdery scab	
	MEAN	407	545	74	26	74	0	1	1.076	0	20	0	0	2.5	4.0	1.8			2.5	2.5	4.0	3.3			
ROUND WHITE TYPE	MSV179-1	574	623	92	5	92	0	3	1.080	10	0	0	0	1.5	3.5	4.5	1.5								
	Harmony	522	643	81	13	81	0	6	1.063	50	20	0	40	0.5	3.0	3.5	2.0								
	White Beauty	491	553	89	9	89	0	2	1.086	0	0	0	0	1.5	3.0	5.0	2.5							apical anthocyanin pigmentation, surface scab	
	Libertie													3.5	1.5										
	MEAN	529	606	87	9	87	0	4	1.076	20	7	0	13	1.2	3	3.6	2.0								
	TRIAL MEAN	480	613	78	19	78	0	2	1.075	9	6	2	5	1.4	3.6	3.3	2.6	2.6	2.5	2.5	4.0	3.3			

¹SIZE

Non-russet tablestock

Bs: < 1 7/8"

As: 1 7/8" - 3 1/4"

OV: > 3 1/4"

PO: Pickouts

²SPECIFIC GRAVITY

Data not replicated

³RAW TUBER QUALITY

(percent of tubers out of 10)

HH: Hollow Heart

VD: Vascular Discoloration

IBS: Internal Brown Spot

BC: Brown Center

⁴COMMON SCAB RATING

0.0: Complete absence of surface or pitted lesions

1.0: Presence of surface lesions

2.0: Pitted lesions on tubers, though coverage is low

3.0: Pitted lesions common on tubers

4.0: Pitted lesions severe on tubers

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

⁵VINE VIGOR RATING

Date: 6/24/19

Rating 1-5

1: Slow emergence

5: Early emergence

⁶VINE MATURITY RATING

Date: 8/23/19

Rating 1-5

1: Early (vines completely dead)

5: Late (vigorous vines, some flowering)

FIELD DATA

Planting Date

Vine Kill Date

Harvest Date

Days (planting to vine kill)

Days (planting to harvest)

GDD₄₀ MAWN Station

GDD₄₀ (planting to vine kill)

Seed Spacing

5/14/19

8/25/19

10/7/19

103

146

Kalkaska

2232

10"

⁷WAXINESS RATING

1: Heavy netting, buff

5: Waxy, smooth

⁸FLESH COLOR

1: White

5: Dark yellow

⁹SKIN COLOR

1: Light pink

5: Dark red

¹⁰UNIFORMITY OF SKIN COLOR

1: Highly variable, non-uniform

5: Highly uniform, color throughout

¹¹SILVER SCURF

0: No incidence of silver scurf

5: High incidence of silver scurf

2018 Tablestock Potato Variety Trial

Styma Potato Farms

Planting: 6/5/19 Vine Kill: 9/20/19 Harvest: 10/18/19
GDD₄₀: 2510

LINE	CWT/A		PERCENT OF TOTAL ¹				RAW TUBER QUALITY ⁴ (%)						YELLOW FLESH			RED SKIN			COMMENTS				
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	HH	VD	IBS	BC	COMMON SCAB RATING ⁵	VINE VIGOR ⁷	VINE MATURITY ⁸	WAXINESS ⁷	FLESH COLOR ⁸	WAXINESS ⁷		SKIN COLOR ⁹	UNIFORMITY ¹⁰	SILVER SCURF ¹¹	
YELLOW SKIN TYPE	Arizona	587	708	83	11	78	5	6	1.062	20	0	0	10	2.0	2.5	3.0	2.0	1.5				oval to oblong blocky	
	Fioretta	552	738	75	13	75	0	12	1.071	0	10	0	0	0.5	4.0	4.0	3.0	1.5				oblong, non uniform tuber type	
	Picobello	518	677	77	18	77	0	5	1.068	0	10	0	0	1.0	3.5	3.5	3.0	2.0				bright skin, many misshapen pos	
	NY149	515	582	88	9	88	0	3	1.079	0	0	0	0	0.0	4.0	3.0	2.0	2.0				moderate ah	
	Yukon Gold	486	518	94	4	94	0	2	1.084	0	20	0	0	1.0	4.0	3.5	3.0	3.0					
	Queen Anne	480	610	79	20	79	0	1	1.063	0	0	0	0	0.5	3.5	4.0	3.5	3.5					
	Actrice	474	534	89	7	89	0	4	1.060	0	10	0	0	1.0	2.5	3.0	3.0	2.0					
	SF Vario	452	573	79	10	79	0	11	1.065	0	0	20	10	1.5	3.0	3.5	2.0	1.0					
Electra	412	543	76	8	76	0	16	1.065	0	20	0	0	0.5	2.0	4.5	2.0	2.0					pointed ends, misshapen pos	
Obama	395	466	85	11	85	0	4	1.066	0	0	0	0	2.0	3.5	4.0	3.0	2.0					bright appearance	
MSV093-1Y	343	369	93	7	93	0	0	1.073	0	0	0	0	0.0	3.0	4.5	3.0	2.0					deep apical ends	
MEAN	474	574	83	11	83	0	6	1.069	2	6	2	2	0.9	3.2	3.7	2.7	2.0						
RED SKIN TYPE	NDAF113484B-1	667	699	96	3	95	1	1	1.069	0	10	0	0	0.0	3.0	4.0		3.0	2.0	2.5	2.5	large blocky tuber type	
	Red Prairie	546	625	87	10	87	0	3	1.072	0	10	0	0	0.0	3.5	4.0		2.5	3.0	3.0	0.5	mod ah, sl skinning, gc	
	Roko	436	515	85	11	85	0	4	1.075	0	0	0	0	0.0	3.5	4.5		3.0	3.0	3.0	1.0	mod scurf, bright eyes, flaky buff skin	
	Red Sunset	421	481	87	10	87	0	3	1.070	0	0	0	0	0.5	3.5	2.5		2.0	2.0	3.0	0.0	mod skinning, poor skin finish	
	Autumn Rose	410	502	82	17	82	0	1	1.079	0	10	0	0	0.0	4.0	4.0		3.0	2.5	4.0	1.0	buff netted skin, sl ah	
	Dark Red Norland	397	468	85	7	85	0	8	1.066	0	0	0	0	0.0	3.5	2.5		2.0	2.0	1.5	2.0		
	NY164	332	392	85	13	85	0	2	1.064	0	0	0	0	0.0	3.0	4.5		2.0	1.5	3.0	1.0	uniform round tuber type, skinning	
MSAA182-3R	250	337	74	21	74	0	5	1.078	20	10	0	10	0.0	2.5	5.0		2.0	2.5	2.5	1.0	moderate skinning, smaller		
W8893-1R	126	198	64	31	64	0	5	1.069	0	0	0	0	0.0	2.5	3.0		3.0	2.0	4.0	2.0	round to oval shape, nice appearance		
MEAN	398	469	83	14	83	0	4	1.071	2	4	0	1	0.1	3.2	3.8			2.5	2.3	2.9	1.2		
ROUND WHITE TYPE	White Beauty	613	673	91	6	91	0	3	1.079	0	0	0	0	0.5	3.5	5.0		3.0				misshapen pos, phenolics	
	MSV179-1	529	550	97	2	94	3	1	1.075	0	0	0	0	0.5	4.0	4.0		2.5				nice appearance, round	
	Bridget	505	580	87	10	87	0	3	1.080	0	10	0	0	0.5	4.0	3.5		2.5				netted flaky skin	
	Libertie	504	583	86	12	86	0	2	1.076	0	0	0	0	0.5	2.5	3.5		3.0				variable shape, bright appearance	
	Onaway	492	537	91	4	89	2	5	1.076	0	0	0	0	0.5	3.5	3.5	3.0						
	Harmony	461	524	88	7	81	7	5	1.068	20	0	0	10	0.5	3.0	4.0		1.5					large blocky tubers
	AF5280-5	384	432	89	9	89	0	2	1.068	0	10	0	0	0.5	3.5	3.5		2.5					round and uniform
	Nadine	358	433	83	15	83	0	2	1.065	0	0	0	0	1.0	4.0	3.0		2.0					netted skin
	MSX194-3	326	402	81	17	81	0	2	1.081	0	0	0	0	0.0	3.0	3.0		1.0					mod ah, netted skin, poor appearance
	NDAF102629C-4	325	407	80	16	80	0	4	1.078	0	0	0	0	0.0	4.0	3.5		2.0					bright, sl netting
AAC Hamer	259	355	73	23	73	0	4	1.079	0	0	0	0	0.5	5.0	3.0		2.0					smaller uniform tuber type	
MSX398-2	132	162	81	18	81	0	1	1.082	20	0	0	30	1.0	2.0	3.0		2.0						
MEAN	407	470	86	12	85	1	3	1.076	3	2	0	3	0.5	3.5	3.5		2.3						
NOVELTY TYPE	Michigan Purple	409	485	84	10	84	0	6	1.079	0	0	0	0	1.0	4.0	3.0		2.5	3.0	3.5	3.0	pitted lesions, lots of scurf	
	MSZ436-2SPL	308	396	78	20	78	0	2	1.065	0	0	0	0	0.5	3.0	4.0		2.5				bright appearance	
MEAN	359	441	81	15	81	0	4	1.072	0	0	0	0	0.8	3.5	3.5			2.5	3.0	3.5	3.0		
TRIAL MEAN	424	502	84	12	83	1	4	1.072	2	4	1	2	0.5	3.3	3.6		2.5	2.0	2.5	2.4	3.0	1.4	

¹SIZE

Non-russet tablestock
Bs: < 1 7/8"
As: 1 7/8" - 3 1/4"
OV: > 3 1/4"
PO: Pickouts

²SPECIFIC GRAVITY

Data not replicated

³RAW TUBER QUALITY

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

⁴COMMON SCAB RATING

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

⁵VINE VIGOR RATING

Date: 7/10/19
Rating 1-5
1: Slow emergence
5: Early emergence

⁶VINE MATURITY RATING

Date: 8/27/19
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

FIELD DATA

Planting Date 6/5/19
Vine Kill Date 9/20/19
Harvest Date 10/18/19
Days (planting to vine kill) 107
Days (planting to harvest) 135
GDD₄₀ MAWN Station Hawks
GDD₄₀ (planting to vine kill) 2510
Seed Spacing 10"

⁷WAXINESS RATING

1: Heavy netting, buff
5: Waxy, smooth

⁸FLESH COLOR

1: White
5: Dark yellow

⁹SKIN COLOR

1: Light pink
5: Dark red

¹⁰UNIFORMITY OF SKIN COLOR

1: Highly variable, non-uniform
5: Highly uniform, color throughout

¹¹SILVER SCURF

0: No incidence of silver scurf
5: High incidence of silver scurf

2019 Tablestock Potato Variety Trial

Verbrigghe Potato Farms

Planting: 5/15/19 Vine Kill: 9/7/19 Harvest: 10/9/19
GDD₄₀: 2547

LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ⁴ (%)					YELLOW FLESH		RED SKIN			COMMENTS					
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	HH	VD	IBS	BC	COMMON SCAB RATING ⁵	VINE VIGOR ⁷	VINE MATURITY ⁸	WAXINESS ⁷	FLESH COLOR ⁸		WAXINESS ⁷	SKIN COLOR ⁹	UNIFORMITY ¹⁰	SILVER SCURF ¹¹	
YELLOW SKIN TYPE	Fioletta	720	823	87	3	77	10	10	1.070	0	0	0	1.0	5.0	4.5	3.0	4.0					nice type, high yielding	
	Arizona	566	586	96	4	57	39	0	1.064	0	0	0	2.0	3.0	3.0	2.0	1.0						
	Obama	556	592	94	6	80	14	0	1.070	0	0	0	0.0	3.5	4.0	4.0	4.0					oblong type, nice flesh color	
	Electra	541	619	87	2	64	23	11	1.069	0	0	0	1.0	2.5	4.5	3.0	2.0						
	Actrice	496	512	96	4	84	12	0	1.064	0	0	10	0.0	3.0	3.5	4.0	2.0						
YELLOW SKIN TYPE	MSV093-1Y	394	408	96	2	46	50	2	1.079	0	0	0	1.0	4.0	4.0	2.0	1.0						
	Queen Anne	349	418	83	13	83	0	4	1.061	0	0	0	0.0	3.0	3.5	5.0	3.0					smooth skin	
	NY149	299	333	90	3	62	28	7	1.084	0	0	0	1.0	3.0	4.0	4.0	2.0						
	Yukon Gold	252	296	85	4	43	42	11	1.074	0	0	0	1.0	3.0	4.0	2.0	3.0						
MEAN	464	510	90	5	66	24	5	1.071	0	0	1	0	0.8	3.3	3.9	3.2	2.4						
RED SKIN TYPE	Dark Red Norland	556	627	89	1	71	18	10	1.066	0	0	40	1.0	4.0	3.5			3.0	4.0	4.0	0.0		
	Red Prairie	507	542	93	1	74	19	6	1.065	0	10	20	0.0	3.0	4.0			4.0	4.0	3.0	0.0	good skin set	
	NDAF113484B-1	478	505	95	2	58	37	3	1.061	0	0	0	0.0	2.0	3.5			5.0	3.0	5.0	0.0	skinning	
	W8893-1R	460	495	93	4	81	12	3	1.067	0	0	0	0.0	2.5	2.5			5.0	3.0	4.0	1.0	skinning	
	Autumn Rose	357	511	70	1	66	4	29	1.077	0	0	0	3.0	3.5	4.5			1.0	2.0	3.0	2.0	non uniform type-very knobby	
RED SKIN TYPE	NY164	343	372	92	8	92	0	0	1.067	0	0	0	0.0	3.0	4.0			5.0	2.0	5.0	0.0	skinning	
	Roko	334	397	84	4	84	0	12	1.072	0	0	0	0.0	3.5	4.5			3.0	4.0	4.0	1.0	nice dark color	
	Red Sunset	286	306	93	5	78	15	2	1.065	0	0	10	0.0	3.5	3.0			4.0	1.0	5.0	0.0	skinning	
	MEAN	415	470	89	3	76	13	8	1.068	0	1	9	0	0.5	3.1	3.7			3.8	2.9	4.1	0.5	
ROUND WHITE TYPE	AAC Hamer	525	539	98	2	78	20	0	1.081	0	0	20	0.0	4.5	3.5								
	MSV179-1	521	534	97	2	37	60	1	1.074	0	0	0	1.0	2.0	4.5								
	Harmony	506	572	88	5	69	19	7	1.063	0	0	0	0.0	2.5	3.0								
	Bridget	477	548	87	3	70	17	10	1.081	0	0	0	1.0	3.5	4.0							skinning	
	AF5280-5	401	429	94	0	47	47	6	1.072	0	0	0	0.0	3.5	3.5							nice skin and flesh	
	White Beauty	365	407	90	5	71	19	5	1.074	0	0	0	0.0	1.5	5.0								
	Reba	360	390	92	2	53	39	6	1.079	0	0	0	0.0	2.5	4.5								very uniform type
	NDAF102629C-4	347	383	91	2	66	25	7	1.078	0	0	0	0.0	3.0	4.0								skinning, nice type
MSX194-3	317	342	93	7	84	9	0	1.079	0	0	0	1.0	3.0	4.5									
Libertie	316	343	92	4	73	19	4	1.069	0	0	0	1.0	3.0	4.0								skinning	
Nadine	248	294	84	9	75	9	7	1.060	0	0	0	0.0	2.5	3.5								some netting	
MEAN	398	435	91	4	66	26	5	1.074	0	0	2	0	0.4	2.9	4.0								
NOVELTY	Michigan Purple	416	426	97	3	77	20	0	1.073	0	0	0	3.0	4.0	4.0								skinning
TRIAL MEAN	424	467	91	4	69	22	6	1.071	0	0	3	0	0.6	3.1	3.9	3.2	2.4	3.8	2.9	4.1	0.5		

- ¹**SIZE**
Non-russet tablestock
Bs: < 1 7/8"
As: 1 7/8" - 3 1/4"
OV: > 3 1/4"
PO: Pickouts
- ²**SPECIFIC GRAVITY**
Data not replicated
- ³**RAW TUBER QUALITY**
(percent of tubers out of 10)
HH: Hollow Heart
VD: Vascular Discoloration
IBS: Internal Brown Spot
BC: Brown Center
- ⁴**COMMON SCAB RATING**
0.0: Complete absence of surface or pitted lesions
1.0: Presence of surface lesions
2.0: Pitted lesions on tubers, though coverage is low
3.0: Pitted lesions common on tubers
4.0: Pitted lesions severe on tubers
5.0: More than 50% of tuber surface area covered in pitted lesions
- ⁵**VINE VIGOR RATING**
Date: 7/10/19
Rating 1-5
1: Slow emergence
5: Early emergence
- ⁶**VINE MATURITY RATING**
Date: 8/28/19
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)
- FIELD DATA**
Planting Date 5/15/19
Vine Kill Date 9/7/19
Harvest Date 10/9/19
Days (planting to vine kill) 115
Days (planting to harvest) 147
GDD₄₀ MAWN Station Escanaba
GDD₄₀ (planting to vine kill) 2547
Seed Spacing 10"
- ⁷**WAXINESS RATING**
1: Heavy netting, buff
5: Waxy, smooth
- ⁸**FLESH COLOR**
1: White
5: Dark yellow
- ⁹**SKIN COLOR**
1: Light pink
5: Dark red
- ¹⁰**UNIFORMITY OF SKIN COLOR**
1: Highly variable, non-uniform
5: Highly uniform, color throughout
- ¹¹**SILVER SCURF**
0: No incidence of silver scurf
5: High incidence of silver scurf

2019 Tablestock Potato Variety Trial Walther Farms Early Generation Selection

Planting: 5/15/19 Vine Kill: 8/26/19 Harvest: 9/19/19
GDD₅₀: 2781

LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ⁴ (%)					YELLOW FLESH		RED SKIN			COMMENTS						
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	HH	VD	IBS	BC	COMMON SCAB RATING ⁵	VINE VIGOR ⁷	VINE MATURITY ⁸	WAXINESS ⁷	FLESH COLOR ⁹		WAXINESS ⁷	SKIN COLOR ⁹	UNIFORMITY ¹⁰	SILVER SCURF ¹¹		
YELLOW	Queen Anne	312	501	62	36	62	0	2	1.064	0	20	0	0.0	3.0	2.0	3.0	3.0						flattened oval type	
	ATX052025-3W/Y	257	373	69	31	69	0	0	1.085	0	0	0	0.5	3.5	2.5	2.0	2.0							
	MEAN	285	437	66	33	66	0	1	1.075	0	10	0	0.3	3.3	2.3	2.5	2.5							
RED SKIN TYPE	NDAF113484B-1	502	563	89	7	89	0	3	1.065	0	30	0	0.0	4.0	2.0			4.0	4.0	4.0	1.0	high yield, good color, some scurf		
	ND1394-5R	423	455	93	5	93	0	2	1.074	0	40	0	0.5	4.0	2.5			3.0	3.0	4.0	3.0	good size, round, slight netting		
	FC160106-1R/Y	419	460	91	9	91	0	0	1.071	0	10	10	0	0.5	4.0	3.0			3.5	4.0	4.5	2.0	uniform size, netting, red purple skin	
	ND13136Y-2R	415	490	85	15	85	0	0	1.081	0	10	0	0	0.0	5.0	1.5			2.0	4.0	4.0	4.0	2.5	good color, oval, sl flattened, some net and scurf
	ND14113Y-5R	409	430	95	4	95	0	1	1.073	0	0	0	0	0.0	3.5	2.5			2.5	2.5	3.0	2.5		
	MSURed Marker #2	355	380	94	5	88	5	2					0.0	4.0	3.0									
	CO00277-2R	341	373	91	7	91	0	2	1.085	0	30	0	0	0.0	2.0	3.0			3.0	4.5	4.0	1.5	good color and size	
	ND14113Y-3R	338	413	82	18	82	0	0	1.081	0	0	0	0	0.0	4.0	2.0			2.5	3.0	3.0	3.0	some points and scurf, good shape, some net	
	MSAA182-3R	333	474	70	30	70	0	0	1.075	0	30	0	0	0.0	4.0	3.5			4.0	4.0	4.0	0.5	uniform	
	CO15205-4R	304	346	88	11	88	0	1	1.079	0	30	0	0	0.0	4.5	2.0			3.5	4.0	4.0	3.0	nice color, round, netted, scurf	
	NDTX4784-7R	273	292	93	7	93	0	0	1.060	0	20	10	0	0.0	2.0	2.5			4.0	4.0	3.5	1.0	uniform round tuber type	
	ND1438Y-6R	269	338	79	21	79	0	0	1.076	0	50	0	0	0.0	2.5	3.0			4.0	3.5	3.0	4.0	sticky stolons, round, medium color	
	ND1411Y-1R	267	291	92	8	92	0	0	1.095	0	10	0	0	0.0	4.0	1.5			3.5	2.0	3.0	3.0	some net, nice shape and skin color	
	CO15211-5R	266	377	70	29	70	0	1	1.068	0	20	0	0	0.0	4.0	2.0			3.5	4.0	4.0	3.5	oblong to oval shape, nice skin	
	ND1466CB-1R	265	322	82	15	82	0	3	1.072	60	10	0	0	0.0	3.0	1.5			2.0	3.0	3.5	4.0	some scurf, but nice type and darker red color	
	ND13292B-3R	260	332	78	22	78	0	0	1.076	0	20	0	0	2.0	3.0	2.0			3.5	4.0	3.0	2.0	dark red color, sl pitted scab, sl scurf	
	CO14105-1R	254	290	88	12	88	0	0	1.064	0	20	0	0	0.5	3.0	3.0			4.0	4.0	4.0	2.0	oval, some skinning, few gc	
	CO14074-1R	249	366	68	32	68	0	0	1.074	0	30	0	0	0.0	3.5	2.5			4.0	4.0	3.5	0.5	small/mini, some scurf, good color	
	CO15084-6R	248	406	61	34	61	0	5	1.062	0	10	10	0	0.0	3.0	3.0			3.5	3.5	4.0	1.5	dark skin, scurf	
	AF6027-2	232	275	85	9	84	0	6	1.079	0	0	0	0	0.0	3.5	3.0							1.5	attractive shape
	CO14040-3R	215	370	58	41	58	0	1	1.071	0	0	0	0	0.0	3.0	2.0			3.5	2.5	4.0	1.5	smooth waxy skin, silver scurf, small and uniform	
	CO15219-3R	201	382	53	47	53	0	0	1.085	0	10	0	0	1.0	3.5	3.0			4.0	4.0	3.5	2.5	nice shape, some scurf, mini	
	CO14048-2R	188	321	59	40	59	0	1	1.074	0	0	0	0	0.0	3.0	2.0			2.5	2.5	3.5	3.5	nice red skin, oval, consistent type, silver scurf	
	ND13236C-10R	152	287	53	44	53	0	3	1.070	0	30	0	0	0.0	2.5	2.0			3.5	3.5	3.5	2.0	small, uniform, some rhizoc, few pears	
	CO15084-4R	145	249	58	42	58	0	0	1.075	0	10	0	0	0.0	2.5	3.0			3.5	3.5	4.0	1.5	dark red mini, some netting	
	CO14043-2R	118	208	57	42	57	0	1	1.068	0	20	0	0	0.0	2.5	2.0			1.5	2.0	3.5	3.5	some silver scurf, nice shape and type	
	MSFF148-1R	111	457	73	27	73	0	0	1.074	0	0	0	0	0.0	4.5	3.0			4.5	5.0	4.5	0.5	unique purple red, round, sl deep eyes	
	CO15233-1R	105	239	44	56	44	0	0	1.076	0	30	0	0	0.0	3.0	2.5			3.5	4.0	4.0	1.0	good color, mini, sl skinning	
CO15206-1R/Y	103	193	54	46	54	0	0	1.073	0	20	0	0	0.0	4.0	1.5			4.0	3.5	4.0	1.0	mini, round, nice skin		
ND13236C-3R	91	207	44	56	44	0	0	1.074	0	20	0	0	0.5	2.5	2.5			3.0	3.5	4.0	1.0	small, mini, uniform		
MSFF305-2R	91	310	88	12	88	0	0	1.082	0	40	0	0	0.0	4.5	3.0			2.5	4.5	4.0	2.0	nice red color, sl deep eyes		
MSFF305-1R	82	276	89	11	89	0	0	1.076	0	0	0	0	0.0	4.0	3.0			2.5	4.5	4.0	1.0	good color, sl net		
Isle Royale (MSX569-1R)	64	91	70	30	70	0	0	1.053	0	20	0	0	0.0	3.0	2.0			4.0	4.0	4.0	0.5			
ND13292B-1R	56	152	37	63	37	0	0	1.078	0	30	0	0	0.0	3.5	2.0			3.0	3.5	4.0	2.0	good color, mini, ok shape, some scurf		
MSFF339-2R	40	189	63	38	63	0	0	1.065	0	20	0	0	0.0	4.0	3.0			2.0	3.5	3.5	2.5	good color, some pears		
CO15121-1R	35	145	24	76	24	0	0						4.0	1.5								1.5	nice dark skin, mini, round	
MSFF225-04R	26	153	50	49	50	0	0	1.070	0	10	0	0	0.0	3.5	3.0			2.5	2.5	4.0	2.0	unique red purple skin, sl scurf		
CO15121-3R	23	89	25	74	25	0	0	1.078	0				0.0	3.5	1.0							2.0	nice, uniform, small, waxy, smooth	
MSFF141-01R	21	134	46	54	46	0	0	1.079	0	20	0	0	0.0	3.5	3.0			4.5	4.5	4.5	2.0	red to purple skin, oval		
MSFF138-04R	11	116	28	72	28	0	0	1.091	0	0	20	0	0.0	2.0	2.5			4.5	4.0	4.0	0.5	no scurf, good shape		
	MEAN	207	306	69	31	69	0	1	1.074	2	18	1	0	0.1	3.4	2.4			3.3	3.6	3.8	1.9		
TRIAL MEAN	211	312	69	31	68	0	1	1.074	2	18	1	0	0.1	3.4	2.4	2.5	2.5	3.3	3.6	3.8	1.9			

¹**SIZE**

Non-russet tablestock
Bs: < 1 7/8"
As: 1 7/8" - 3 1/4"
OV: > 3 1/4"
PO: Pickouts

²**SPECIFIC GRAVITY**

Data not replicated

³**RAW TUBER QUALITY**

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

⁴**COMMON SCAB RATING**

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

⁵**VINE VIGOR RATING**

Date: 6/25/19
Rating 1-5
1: Slow emergence
5: Early emergence

⁶**VINE MATURITY RATING**

Date: 8/26/19
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

FIELD DATA

Planting Date 5/15/19
Vine Kill Date 8/26/19
Harvest Date 9/19/19
Days (planting to vine kill) 103
Days (planting to harvest) 127
GDD₅₀ MAWN Station Fairgrove
GDD₅₀ (planting to vine kill) 2781
Seed Spacing 10"

⁷**WAXINESS RATING**

1: Heavy netting, buff
5: Waxy, smooth

⁸**FLESH COLOR**

1: White
5: Dark yellow

⁹**SKIN COLOR**

1: Light pink
5: Dark red

¹⁰**UNIFORMITY OF SKIN COLOR**

1: Highly variable, non-uniform
5: Highly uniform, color throughout

¹¹**SILVER SCURF**

0: No incidence of silver scurf
5: High incidence of silver scurf

2019 Replicated Tablestock Potato Variety Trial

Walther Farms

Planting: 5/15/19 Vine Kill: 8/26/19 Harvest: 9/10/19

GDD₄₀: 2781

LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ⁴ (%)					COMMON SCAB RATING ⁵	VINE VIGOR ⁷	VINE MATURITY ⁸	YELLOW FLESH		RED SKIN			SILVER SCURF ¹¹	COMMENTS			
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	HH	VD	IBS	BC				WAXINESS ⁷	FLESH COLOR ⁸	WAXINESS ⁷	SKIN COLOR ⁹	UNIFORMITY ¹⁰					
YELLOW SKIN TYPE	MSX156-1Y	515	542	95	3	87	8	2	1.068	0	0	0	0	1.5	3.8	3.0	2.2	1.7						poor shape and appearance	
	MSBB343-2Y	469	511	91	7	91	0	2	1.081	0	23	0	0	1.2	4.3	2.5	2.3	1.8						gc in pos, poor skin	
	Actrice	422	487	87	9	87	0	4	1.058	0	20	0	0	0.5	3.2	1.5	2.0	1.5						deep apical eyes	
	Noah	396	495	80	12	79	1	8	1.071	0	13	0	0	0.7	3.5	3.0	2.7	1.3						pointed tubers, pitted scab	
	Paroli	383	454	84	10	84	0	6	1.064	0	10	0	0	0.5	4.0	1.5	3.3	2.3						growth crack, attractive waxy skin	
	Electra	378	423	89	8	89	0	3	1.064	0	13	0	0	0.2	3.0	3.2	2.0	2.0							flat oval type
	Obama	339	445	76	22	75	1	2	1.069	0	30	0	0	0.3	4.0	2.3	2.5	1.7							oval to oblong, buff skin
	Laperla	328	473	69	29	69	0	2	1.061	0	23	0	0	0.0	4.3	1.7	3.2	1.2							smooth, bright skin
	Captain	319	397	80	12	80	0	8	1.065	0	40	0	0	0.0	3.5	1.5	2.8	1.3							poor tuber shape, blocky
	Yukon Gold	288	323	89	7	89	0	4	1.079	7	13	0	3	0.5	3.2	2.0	2.2	2.0							netted skin
	Queen Anne	286	485	60	39	59	1	1	1.065	0	7	0	0	0.8	3.7	2.0	3.8	2.3							smooth skin, oval
	Fioretta	284	490	58	39	58	0	3	1.068	0	7	0	0	0.8	3.3	2.8	3.2	3.3							uniform, bright skin
	SF Vario	272	392	71	26	71	0	3	1.068	0	17	0	0	0.3	3.7	2.0	2.5	1.3							buff skin
	NY149	268	360	75	22	75	0	3	1.084	0	37	0	0	0.2	4.2	2.5	2.3	2.5							done, netted skin
Picobello	200	298	67	27	67	0	6	1.062	0	13	0	0	0.7	3.0	2.5	2.8	2.0							poor shape and appearance	
Arizona	153	216	70	28	70	0	2	1.062	0	10	0	0	0.3	2.7	2.2	2.5	1.0							skin netting, poor type	
Nixie	138	292	47	52	47	0	1	1.079	0	0	0	0	0.2	3.5	2.3	2.7	2.2							small, bright, points	
MEAN	320	417	76	21	75	1	4	1.069	0	17	0	0	0.5	3.6	2.3	2.6	1.8								
RED SKIN TYPE	NDAF1134848-1	500	541	92	7	92	0	1					0.2	3.2	2.5										moderate skinning
	NY164	470	539	87	10	86	1	3	1.067	0	10	0	0	0.7	2.7	3.0			3.0	2.8	3.0	1.0			moderate skinning
	Red Prairie	382	433	88	12	87	1	0	1.063	0	13	10	0	0.0	3.2	2.2			3.5	2.5	3.3	1.3			netting, mod skinning
	Dark Red Norland	366	419	88	10	88	0	2	1.068	1	7	0	0	0.2	3.3	1.7			3.2	3.5	3.0	1.5			gc in pos, variable skin color
	CO99076-6R	359	385	93	5	93	0	2	1.076	0	10	0	0	0.0	3.5	2.3			3.2	3.2	4.0	1.8			sticky stolons, dark skin
	Cerata	332	383	87	11	87	0	2	1.068	0	7	0	0	0.2	4.2	3.2			3.3	2.3	4.2	0.0			lighter skin color
	Roko	280	360	78	21	78	0	1	1.074	0	3	3	0	0.8	3.7	3.0			2.7	1.8	3.0	0.3			lighter red skin
	Autumn Rose	260	406	64	33	64	0	3	1.082	0	13	0	0	0.8	4.2	2.0			2.7	2.7	4.0	0.8			netted skin, misshapen pos
	Red Sunset	251	294	86	14	85	1	0	1.064	0	17	0	0	0.0	3.2	2.5			2.8	2.7	2.7	0.7			
	WB8893-1R	214	323	66	31	66	0	3	1.059	0	3	0	0	0	3.3	1.0			3.3	3.5	3.7	3.0			attractive skin and appearance
Isle Royale	99	129	72	24	72	0	4	1.048	0	27	0	0	0.0	1.8	2.0			3.5	3.3	2.3	0.7			attractive red skin	
CO98012-5R	80	121	66	26	66	0	8	1.066	0	0	0	0	0.3	2.0	2.5			2.8	3.3	3.0	2.3			misshapen pos	
MEAN	342	408	83	15	83	0	2	1.069	0	9	1	0	0.3	3.3	2.3			3.1	2.8	3.4	1.2				
ROUND WHITE TYPE	Bridget	316	429	75	22	75	0	3	1.083	0	27	0	0	0.2	3.7	2.0			1.7						rough, netted skin
	AAC Hamer	246	317	79	19	79	0	2	1.080	0	20	0	0	0.7	5.0	1.8			1.7						poor skin finish
	Libertie	229	430	53	42	53	0	5	1.072	0	20	0	0	0.0	3.0	2.2			3.0						bright, smooth skin
MEAN	264	392	69	28	69	0	3	1.078	0	22	0	0	0.3	3.9	2.0			2.1							
TRIAL MEAN	307	393	77	20	77	0	3	1.069	0	15	0	0	0.4	3.5	2.3			2.6	1.8	3.1	2.9	3.3	1.2		

¹SIZE

Non-russet tablestock

Bs: < 1 7/8"

As: 1 7/8" - 3 1/4"

OV: > 3 1/4"

PO: Pickouts

²SPECIFIC GRAVITY

Data not replicated

³RAW TUBER QUALITY

(percent of tubers out of 10)

HH: Hollow Heart

VD: Vascular Discoloration

IBS: Internal Brown Spot

BC: Brown Center

⁴COMMON SCAB RATING

0.0: Complete absence of surface or pitted lesions

1.0: Presence of surface lesions

2.0: Pitted lesions on tubers, though coverage is low

3.0: Pitted lesions common on tubers

4.0: Pitted lesions severe on tubers

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

⁵VINE VIGOR RATING

Date: 6/25/19

Rating 1-5

1: Slow emergence

5: Early emergence

⁶VINE MATURITY RATING

Date: 8/26/19

Rating 1-5

1: Early (vines completely dead)

5: Late (vigorous vines, some flowering)

FIELD DATA

Planting Date

Vine Kill Date

Harvest Date

Days (planting to vine kill)

Days (planting to harvest)

GDD₄₀ MAWN Station

GDD₄₀ (planting to vine kill)

Seed Spacing

5/15/19

8/26/19

9/10/19

103

118

Fairgrove

2781

10"

⁷WAXINESS RATING

1: Heavy netting, buff

5: Waxy, smooth

⁸FLESH COLOR

1: White

5: Dark yellow

⁹SKIN COLOR

1: Light pink

5: Dark red

¹⁰UNIFORMITY OF SKIN COLOR

1: Highly variable, non-uniform

5: Highly uniform, color throughout

¹¹SILVER SCURF

0: No incidence of silver scurf

5: High incidence of silver scurf

2019 Tablestock Potato Variety Trial

Walther Farms

Planting: 5/15/19 Vine Kill: 8/26/19 Harvest: 9/19/19

GDD₄₀:

LINE	CWT/A	PERCENT OF TOTAL ¹							RAW TUBER QUALITY ⁴ (%)						YELLOW FLESH		RED SKIN			COMMENTS				
		US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	HH	VD	IBS	BC	COMMON SCAB RATING ⁵	VINE VIGOR ⁷	VINE MATURITY ⁸	WAXINESS ⁷	FLESH COLOR ⁸	WAXINESS ⁷		SKIN COLOR ⁹	UNIFORMITY ¹⁰	SILVER SCURF ¹¹	
YELLOW	MSV093-1Y	437	482	91	9	89	2	0	1.077	0	0	0	0	0.0	4.5	3.0								rougher netted skin
	Yukon Gold	381	407	94	6	94	0	0	1.083	30	0	0	0	0.0	4.0	2.0	2.0	2.0						
	MEAN	409	445	93	8	92	1	0	1.080	15	0	0	0	0.0	4.3	2.5	2.0	2.0						
RED SKIN	Dark Red Norland	370	413	90	9	90	0	2	1.064	0	60	0	0	0.0	4.5	1.5			3.5	3.5	3.0	3.0		
	Red Marker #2	340	396	86	9	86	0	6	1.080	0	20	0	0	0.5	4.0	3.5			2.5	3.0	3.5	2.0		
	MSAA182-3R	162	278	58	40	58	0	1	1.075	0	10	0	0	0.0	4.0	3.0			2.5	3.0	3.5	3.0		sticky stolons, darker skin
	CO99256-2R	145	182	79	20	79	0	0	1.072	0	0	0	0	0.0	1.5	3.0			3.5	3.0	3.0	3.5		round type, attractive skin color
	MEAN	254	317	78	20	78	0	2	1.073	0	23	0	0	0.1	3.5	2.8			3.0	3.1	3.3	2.9		
WHITE	Harmony	208	340	61	33	61	0	6	1.063	0	20	0	0	0.5	3.0	3.5								netted skin
NOVELTY	MSZ436-2SPL	411	433	95	5	95	0	0	1.061	0	20	0	0	0.0	3.5	2.5								
TRIAL MEAN		296	361	80	18	80	0	2	1.070	0	19	0	0	0.1	3.6	2.9	2.0	2.0	3.0	3.1	3.3	2.9		

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⁷FIELD DATA

Planting Date 5/15/19
Vine Kill Date 8/26/19
Harvest Date 9/19/19
Days (planting to vine kill) 103
Days (planting to harvest) 127
GDD₄₀ MAWN Station Fairgrove
GDD₄₀ (planting to vine kill) 2781
Seed Spacing 10"

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