

2018 Potato Outreach Program On-Farm Variety Trials

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

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ROUND WHITE TYPE	White Beauty ^e	562	608	92	7	92	0	1	1.071	0	0	10	0	0.0	3.5	5.0								sl powdery scab						
	Harmony ^e	551	648	85	9	85	0	6	1.067	0	20	0	0	0.0	2.5	3.5								misshapen POs						
	Reba ^{abcde}	462	507	87	10	85	2	3	1.069	8	3	0	2	0.3	2.9	2.8									flattened tuber shape, sl powdery scab					
	Libertie ^e	407	625	65	14	65	0	21	1.055	10	0	0	20	0.0	3.0	4.0									mod powdery scab, non uniform tuber type					
	Moonlight ^e	387	454	85	13	85	0	2	1.072	0	10	0	0	0.0	4.5	4.5									severe alligator hide, surface cracking					
	MSY111-1 ^{abcde}	384	446	78	17	76	2	5	1.064	0	10	0	0	0.8	3.1	3.2										tr powdery scab, round tuber shape, netted skin				
	MSX497-6 ^{bcd}	375	409	92	3	91	1	5	1.067	0	10	3	0	1.7	2.7	3.0										larger tuber type, sl alligator hide				
	AF4138-8 ^{bcde}	345	410	77	22	77	0	1	1.065	0	23	0	0	1.1	2.9	2.8										uniform round tuber type				
	AF5280-5 ^{bcde}	336	398	81	16	81	0	3	1.062	0	18	0	0	0.3	3.3	1.6										oval to oblong tuber type, light skin netting				
	Rock ^e	308	507	61	39	61	0	0	1.075	0	0	10	0	0	0.5	3.0	3.0									oval tuber type, poor skin finish				
Nadine ^{ei}	305	388	77	22	77	0	1	1.057	0	0	0	0	0.5	3.3	2.8										bright skin color and appearance					
Superior ^{de}	300	385	78	17	78	0	5	1.071	10	5	0	0	0.0	3.3	1.3										flat oval tuber type, non uniform					
Onaway ^{ei}	287	386	74	14	73	1	12	1.068	0	15	5	0	1.3	3.5	2.3										deep stem ends, blocky tuber type					
	MEAN	385	475	79	16	79	0	5	1.066	2	9	2	2	0.5	3.2	3.0														
NOVELTY TYPE	MSV443-1PP ^{ae}	293	375	50	46	50	0	4	1.054	0	0	0	0	0.3	2.3	3.5										mod silver scurf, misshapen POs				
	MSW148-1P ^{abcde}	291	385	69	27	69	0	4	1.077	0	0	0	0	1.5	3.3	3.5										small tuber size profile, mod silver scurf				
	AF5245-1P ^{bcdefghi}	246	330	68	28	66	2	4	1.072	10	11	1	3	0.5	3.4	2.1										mod silver scurf				
	MSX324-1P ^{bcdfghi}	238	330	65	29	63	2	6	1.075	0	4	1	0	0.9	2.9	2.1										variable skin color and tuber shape				
	MSZ413-6P ^{abg}	153	271	47	50	47	0	3	1.062	0	7	0	0	0.2	2.8	3.3										sl silver scurf				
	MSV235-2PY ^{ai}	106	222	33	65	33	0	2	1.076	0	0	0	0	0.0	3.0	1.0				1.0						cream colored flesh				
	MSW316-3PY ^a	8	69	12	74	12	0	14	1.043	0	0	0	0	0.0	1.5	-				2.0						deep purple skin color				
	MSZ107-6PP ^a	1	27	4	90	4	0	6	1.063	0	0	0	0	0.5	1.5	-										4.5	5.0			
MSZ109-5RR ^a	0	110	0	100	0	0	0	1.042	0	0	0	0	0.5	1.0	-											very small tubers				
	MEAN	149	236	39	57	38	0	5	1.063	1	2	0	0	0.5	2.4	2.6				1.5						3.2	4.1	3.9	3.3	
	TRIAL MEAN	279	385	64	29	64	1	7	1.066	1	10	2	1	0.7	3.0	3.0				2.4						2.8	2.8	3.4	3.5	1.5

2018 TABLESTOCK VARIETY TRIAL SITES

- ^a4-L Farms, Allegan County
- ^bCrawford Farms, Montcalm County
- ^cHorkey Brothers, Monroe County
- ^dJenkins Farms, Kalkaska County
- ^eKitchen Farms, Antrim County
- ^fVerbrigghe Potato Farms, Delta County
- ^gWalther Farms, Tuscola County
- ^hWalther Farms, St. Joseph County
- ⁱWilk Farms, Presque Isle 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

- (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

2018 Tablestock Variety Trial

4-L Farms

Planting: 5/7/18 Vine Kill: 7/16/18 Harvest: 8/15/18
GDD₄₀: 2044

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 RATING ⁴	VINE VIGOR ⁵	VINE MATURITY ⁶	WAXINESS ⁷	FLESH COLOR ⁸	WAXINESS ⁷	SKIN COLOR ⁹		UNIFORMITY ¹⁰	SILVER SCURF ¹¹	
YELLOW SKIN TYPE	Yukon Gold	120	173	69	10	16	69	0	5	1.069	0	10	0	20	0.5	1.5	not taken	3.0	3.0					
	Alegria	76	181	42	18	36	42	0	4	1.063	0	0	0	0	0.5	1.5		2.5	2.0					
	Laperla	69	172	40	28	27	40	0	5	1.038	0	0	0	0	0.5	2.0		2.5	2.0					
	W9576-11Y	52	149	35	19	33	35	0	13	1.054	0	0	0	0	0.5	1.5		2.0	3.0				larger tuber size profile	
	Orlena	15	80	19	15	14	19	0	52	1.035	0	0	0	20	1.5	1.0		2.0	3.5				GC and pear shapes	
	Jazzy	10	107	9	61	22	9	0	8	1.056	0	0	0	0	0.5	2.0		4.0	2.5				oblong to long tuber type, tr heat sprouts	
	MST252-1Y	8	49	17	43	32	17	0	8	1.056	0	0	0	0	3.0	1.0		2.5	2.0					
	NY149	8	88	9	45	42	9	0	4	1.057	0	0	0	0	1.0	2.5		3.0	3.0				pink eyes	
	Queen Anne	6	83	7	59	30	7	0	4	1.042	0	0	0	0	1.0	1.5		3.0	3.5				oblong tuber type	
	Soraya	3	52	5	57	33	5	0	5	1.036	0	0	0	0	0.5	1.5		2.0	3.0					
	Bonnata	2	61	4	65	29	4	0	2	1.061	0	0	0	0	0.5	2.0		4.0	2.0				attractive appearance, oval tuber shape	
MSX156-1Y	2	46	3	61	30	3	0	6	1.043	0	0	0	0	3.0	1.0		2.5	2.5				nice round tuber type		
Wendy	0	14	0	98	0	0	0	2	1.037	0	0	0	0	1.0	1.0		3.5	2.5				nice oval shape		
	MEAN	29	97	20	45	26	20	0	9	1.050	0	1	0	3	1.1	1.5		2.8	2.7					
RED SKIN TYPE	Dark Red Norland	55	161	34	20	41	34	0	5	1.052	0	0	0	0	0.5	2.5			3.0	2.5	2.0	3.0		
	Red Marker #2	45	121	37	24	37	37	0	2	1.057	0	20	0	0	0.5	2.0			2.0	2.0	2.0	3.0	lighter red skin color	
	AF4831-2R	32	98	32	30	30	32	0	8	1.043	0	10	0	0	0.0	1.5			4.0	3.5	4.0	4.0	oval to oblong tuber type	
	Cerata	24	82	29	25	40	29	0	6	1.042	0	10	0	0	0.5	2.0			2.5	3.5	2.5	3.5	white eyes, uniform round tuber type	
	W8890-1R	12	106	11	39	40	11	0	10	1.053	0	0	0	0	0.5	2.5			3.0	4.5	4.5	4.5		
	W8405-1R	8	101	8	49	39	8	0	4	1.042	0	0	0	0	0.5	2.0			3.5	2.5	4.0	4.5		
	CO98012-5R	1	51	3	76	17	3	0	4	1.059	0	0	0	0	1.0	2.0			4.0	4.0	4.5	4.5		
	MEAN	25	103	22	38	35	22	0	6	1.050	0	6	0	0.5	2.1			3.1	3.2	3.4	3.9			
ROUND WHITE TYPE	AF5280-5	103	190	54	11	31	54	0	4	1.058	0	0	0	0	0.5	2.5								
	Reba	88	135	66	8	23	66	0	3	1.063	0	0	0	0	0.0	1.5								
	AF4138-8	26	89	30	30	40	30	0	0	1.054	0	30	0	0	0.5	1.5								
	MSY111-1	18	66	28	37	32	28	0	3	1.045	0	0	0	0	1.0	2.5								
	MEAN	59	120	45	22	32	45	0	3	1.055	0	8	0	0.5	2.0									
NOVELTY TYPE	AF5245-1P	41	104	39	18	41	39	0	2	1.055	0	10	0	0	0.5	2.0			3.5	5.0	4.0	4.5	severe heat sprouts	
	MS2413-6P	17	88	20	30	49	20	0	1	1.042	0	20	0	0	0.5	2.0			2.5	5.0	4.0	4.0		
	MSW148-1P	13	72	17	30	44	17	0	9	1.059	0	0	0	0	1.0	1.5			3.0	4.0	4.0	4.0	small tuber size	
	MSV443-1PP	11	105	10	40	44	10	0	6	1.041	0	0	0	0	0.5	1.5			3.5	4.0	4.0	4.5		
	MSX324-1P	10	106	9	47	31	9	0	13	1.073	0	0	0	0	3.5	2.0			3.0	4.0	3.5	4.0		
	MSV235-2PY	8	69	11	53	33	11	0	3	1.073	0	0	0	0	0.0	2.5		2.0	4.0	5.0	4.5	5.0	cream colored flesh	
	MSW316-3PY	8	69	12	48	26	12	0	14	1.043	0	0	0	0	0.0	1.5		2.0	3.0	5.0	4.0	4.5	purple skin color	
	MS2107-6PP	1	27	4	79	11	4	0	6	1.063	0	0	0	0	0.5	1.5			4.5	5.0	4.5	5.0		
	MSZ109-5RR	0	110	0	100	0	0	0	0	1.042	0	0	0	0	0.5	1.0			3.0	4.0	4.5	3.5	very small tubers, about grape size	
		MEAN	12	83	14	49	31	14	0	6	1.054	0	3	0	0.8	1.7			2.0	3.3	4.6	4.1	4.3	
TRIAL MEAN		27	97	22	42	30	22	0	7	1.052	0	3	0	1	0.8	1.8			2.8	2.6	3.3	4.0	3.8	4.1

¹ SIZE 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	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: 6/25/18 Rating 1-5 1: Slow emergence 5: Early emergence	⁶ VINE MATURITY RATING Date: Not taken 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) GDD ₄₀ MAWN Station GDD ₄₀ (planting to vine kill) Seed Spacing Row Width Harvest Length	5/7/18 7/16/18 8/15/18 70 100 Allegan 2044 10" 34" 23'
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2018 Tablestock Potato Variety Trial

Crawford Farms

Planting: 5/29/18 Vine Kill: 9/6/18 Harvest: 10/26/18

GDD₄₀: 2945

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	535	565	94	4	92	2	2	1.082	10	0	0	0	0.5	2.5	4.0	2.0	2.0				larger tuber type	
	W9576-11Y	512	634	81	17	81	0	2	1.060	0	0	0	0	0.5	3.0	2.5	3.5	3.5				sl alligator hide, good general appearance	
	Soraya	458	574	80	6	80	0	14	1.073	0	0	0	0	0.0	2.5	3.5	2.0	4.0				mod alligator hide	
	Orlena	381	473	81	10	81	0	9	1.064	0	20	0	10	0.5	2.5	3.5	3.5	3.0				GC and pear shaped tubers in POs	
	Wendy	376	525	72	27	71	1	1	1.069	0	40	0	0	1.0	2.5	3.5	3.0	3.0					
	Yukon Gold	346	443	78	10	78	0	12	1.085	20	50	0	0	1.5	3.0	2.5	2.5	3.0					
	NY149	342	445	77	20	77	0	3	1.078	0	30	0	0	0.0	3.0	3.0	3.0	3.0					tr alligator hide
	Alegria	261	483	54	23	54	0	23	1.076	0	50	0	0	0.0	3.0	3.0	3.0	3.0					GC in POs
	Queen Anne	252	401	63	31	63	0	6	1.068	0	20	0	0	0.5	2.5	3.0	4.0	3.5					
	MST252-1Y	228	284	80	10	80	0	10	1.078	0	10	0	0	0.0	2.0	2.0	3.0	0.5					severe alligator hide, GC
	Laperla	190	375	51	38	51	0	11	1.052	10	0	0	0	1.5	3.5	1.0	3.0	2.0					non uniform tuber type
Bonnata	142	327	43	35	42	1	22	1.079	0	80	0	0	3.0	2.5	2.5	2.5	1.5						
Jazzy	6	210	3	86	3	0	11	1.064	0	70	0	0	1.0	3.0	1.5	3.5	2.5					very long and tubular	
MEAN	310	442	66	24	66	0	10	1.071	3	28	0	1	0.8	2.7	2.7	3.0	2.6						
RED SKIN TYPE	Cerata	560	603	93	5	93	0	2	1.072	0	20	0	0	0.0	2.5	4.0		4.0	3.0	3.5	1.0	oval tuber type, GC in POs	
	Red Marker #2	411	463	89	11	89	0	0	1.079	0	30	0	0	0.0	3.0	3.5		2.0	2.5	3.0	1.0	mod silver scurf	
	CO98012-5R	338	415	82	18	82	0	0	1.072	0	0	0	0	1.5	3.0	4.0		3.0	3.5	4.0	3.0	mod silver scurf	
	W8405-1R	330	451	73	21	73	0	6	1.061	0	20	0	0	0.0	3.0	3.0		3.5	2.5	2.0	2.5	mod silver scurf, oblong tuber type	
	W8890-1R	328	457	72	24	72	0	4	1.070	0	40	10	0	2.0	3.0	1.5		3.5	3.5	4.0	2.5	mod silver scurf	
AF4831-2R	321	438	73	26	73	0	1	1.065	0	20	10	0	0.5	2.5	3.0		3.0	2.5	3.5	2.5	2.5	mod silver scurf and rhizoctonia	
MEAN	381	471	80	18	80	0	2	1.070	0	22	3	0	0.7	2.8	3.2			3.2	2.9	3.3	2.1		
ROUND WHITE TYPE	AF5280-5	426	492	87	12	87	0	1	1.065	0	60	0	0	0.5	3.0	1.5						oblong tuber type	
	MSX497-6	407	428	95	3	94	1	2	1.074	0	0	0	0	2.0	2.5	3.0						larger tuber type	
	AF4138-8	362	403	90	9	90	0	1	1.075	0	70	0	0	1.5	3.0	3.0						tr rhizoctonia	
	Reba	349	409	85	9	85	0	6	1.074	30	10	0	0	0.0	3.0	2.0						sl alligator hide	
MSY111-1	342	418	82	13	82	0	5	1.067	0	40	0	0	0.0	2.5	3.5						very severe alligator hide		
MEAN	377	430	88	9	88	0	3	1.071	6	36	0	0	0.8	2.8	2.6								
NOVELTY TYPE	MSW148-1P	339	477	71	25	71	0	4	1.083	0	0	0	0	2.5	2.5	3.5		3.5	3.5	4.0	3.0	mod silver scurf	
	MSX324-1P	258	354	73	20	73	0	7	1.079	0	30	0	0	0.0	3.0	2.0		2.0	3.0	3.5	1.5		
	MSZ413-6P	248	393	63	35	63	0	2	1.075	0	0	0	0	0.0	3.0	3.0		3.0	4.0	3.0	2.0	sl silver scurf	
	AF5245-1P	84	212	40	53	40	0	7	1.076	20	10	10	30	0.0	3.0	1.0		3.0	3.0	3.5	2.5	mod silver scurf	
MEAN	232	359	62	33	62	0	5	1.078	5	10	3	8	0.6	2.9	2.4			2.9	3.4	3.5	2.3		
TRIAL MEAN	326	434	72	21	72	0	6	1.072	3	26	1	1	0.7	2.8	2.8	3.0	2.6	3.1	3.1	3.4	2.2		

¹ SIZE Non-russet tablestock Bs: < 1 7/8" As: 1 7/8" - 3 1/4" OV: > 3 1/4" PO: POs	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: 6/26/18 Rating 1-5 1: Slow emergence 5: Early emergence	⁶ VINE MATURITY RATING Date: 8/20/18 Rating 1-5 1: Early (vines completely dead) 5: Late (vigorous vines, some flowering)	FIELD DATA Planting Date: 5/29/18 Vine Kill Date: 9/6/18 Harvest Date: 10/26/18 Days (planting to vine kill): 100 Days (planting to harvest): 150 GDD ₄₀ MAWN Station: Entrica GDD ₄₀ (planting to vine kill): 2945 Seed Spacing: 10" Row Width: 34" Harvest Length: 23'
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

Jenkins Farms

Planting: 5/16/18 Vine Kill: 9/4/18 Harvest: 9/29/18

GDD₄₀: 2571

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	Wendy	579	781	74	25	74	0	1	1.063	0	0	0	0	2.0	3.0	3.5	3.5	3.5					oval to oblong tuber type	
	Soraya	530	668	79	14	79	0	7	1.061	0	10	0	0	0.0	3.0	3.0	1.5	4.0					mod aligator hide, pointed tubers in POs	
	Alegria	505	604	84	11	84	0	5	1.076	0	0	0	0	1.0	3.5	2.5	2.5	3.0					blocky oval to oblong tuber type	
	Orlena	494	581	85	10	84	1	5	1.059	0	0	0	0	0.5	2.5	2.0	3.5	3.0					pointed and pear shaped in POs	
	NY149	481	602	80	16	80	0	4	1.078	0	10	0	0	1.0	3.5	3.0	2.5	2.5					sl aligator hide	
	Bonnata	431	613	70	25	70	0	5	1.069	0	0	0	0	2.5	3.5	2.0	2.0	2.0					oblong tuber type	
	Laperla	370	494	75	16	75	0	9	1.052	10	0	0	0	1.5	4.0	1.0	2.0	1.0					pear shaped tubers in POs	
	Yukon Gold	364	444	82	9	82	0	9	1.078	20	0	0	0	1.5	2.5	2.0	3.0	3.0	3.0					GC and misshapen tubers in the POs
	MST252-1Y	334	460	73	17	73	0	10	1.069	0	0	0	0	0.0	0.0	2.5	1.5	3.0	1.5					GC in POs
	W9576-11Y	329	429	77	21	77	0	2	1.056	0	0	0	0	0.0	4.0	2.0	3.5	2.5					tr aligator hide, sl netted skin type	
Queen Anne	201	405	50	48	50	0	2	1.059	0	0	0	0	0.5	2.0	2.5	4.5	3.5					tr alligator hide, oblong tuber type		
Jazzy	29	179	16	72	16	0	12	1.061	0	0	0	0	0.0	3.0	2.5	3.0	2.5					tubular tuber type, some bottle necking		
	MEAN	387	522	70	24	70	0	6	1.065	3	2	0	0	0.9	3.1	2.3	2.9	2.7						
RED SKIN TYPE	CO98012-5R	559	659	85	12	85	0	3	1.070	0	0	0	0	3.5	3.0	3.0			4.0	4.0	4.5	2.5	mod silver scurf	
	Cerata	513	607	84	16	84	0	0	1.065	0	0	0	0	2.0	3.0	3.5			3.0	2.5	3.0	2.5	mod silver scurf	
	Red Marker #2	461	518	89	10	89	0	1	1.079	0	0	0	0	2.5	3.0	3.0			2.5	2.5	3.0	3.0	mod silver scurf, severe skinning	
	W8405-1R	375	477	79	21	79	0	0	1.059	0	0	0	0	0.5	3.5	3.5			3.0	3.0	4.0	0.5	slight silver scurf, oval tuber type	
	W8890-1R	358	416	86	10	86	0	4	1.065	0	0	0	10	2.0	4.0	2.0			2.0	4.0	4.0	1.5	no skinning, round tuber type	
	Dark Red Norland	224	285	79	20	79	0	1	1.059	10	0	10	0	0.5	3.0	1.0	2.0	2.0	3.0	3.5	3.0	2.0	2.0	mod silver scurf
AF4831-2R	-	-	-	-	-	-	-	1.066	0	0	0	0	3.5	2.5	3.0			3.0	3.0	3.5	2.5	mod silver scurf		
	MEAN	415	494	84	15	84	0	2	1.066	1	0	1	1	2.1	3.1	2.7			2.9	3.2	3.6	2.1		
ROUND WHITE TYPE	Reba	711	748	95	3	95	0	2	1.070	10	0	0	0	1.0	3.5	3.0							deep stem ends, blocky flat tuber type	
	MSY111-1	585	622	94	5	94	0	1	1.078	0	10	0	0	0.5	3.0	1.0							round tuber type, netted skin type	
	AF4138-8	485	582	83	14	83	0	3	1.064	0	0	0	0	0.0	3.0	2.5							uniform round tuber type	
	AF5280-5	396	452	88	11	88	0	1	1.065	0	0	0	0	0.0	4.0	1.0							tr aligator hide, dark lenticils, oval tuber type	
	Superior	294	382	77	21	77	0	2	1.070	10	10	0	0	0.0	3.5	1.0							flat oval tuber type	
	MEAN	494	558	87	11	87	0	2	1.069	4	4	0	0	0.3	3.4	1.7								
NOVELTY TYPE	MSW148-1P	366	473	77	22	77	0	1	1.084	0	0	0	0	2.5	3.0	3.5			3.5	3.0	2.5	3.0	mod silver scurf	
	MSX324-1P	239	374	64	34	64	0	2	1.071	0	0	0	0	0.0	3.0	1.0			3.5	4.0	4.0	2.5	mod silver scurf	
	AF5245-1P	201	316	64	35	64	0	1	1.073	40	10	0	0	0.0	3.5	1.0			2.5	4.0	4.0	4.5	severe silver scurf, flat oval tuber type	
	MEAN	269	388	68	30	68	0	1	1.076	13	3	0	0	0.8	3.2	1.8			3.2	3.7	3.5	3.3		
TRIAL MEAN		401	507	77	20	76	0	4	1.067	4	2	0	0	1.1	3.2	2.2	2.9	2.7	3.0	3.4	3.6	2.5		

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

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: 6/20/18
Rating 1-5
1: Slow emergence
3: Early emergence

⁶VINE MATURITY RATING
Date: 8/21/18
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

FIELD DATA
Planting Date: 5/16/18
Vine Kill Date: 9/4/18
Harvest Date: 9/29/18
Days (planting to vine kill): 97
Days (planting to harvest): 111
GDD₄₀ MAWN Station: Kalkaska
GDD₄₀ (planting to vine kill): 2571
Seed Spacing: 10"
Row Width: 34"
Harvest Length: 23"

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

Kitchen Farms Mini Bulk

Planting: 5/18/18 Vine Kill:9/5/18 Harvest: 10/13/18

GDD₄₀: 2914

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	W9576-11Y	674	744	91	7	91	0	2	1.059	0	0	0	0	0.5	3.5	2.5	4.0	3.5					sl powdery scab
	Queen Anne	590	718	82	17	82	0	1	1.057	0	20	0	0	0.5	3.0	2.5	4.0	4.0					tr powdery scab, bright skin, oblong to long tuber type
	Orlena	548	787	70	6	70	0	24	1.058	0	0	0	0	0.0	3.0	2.5	3.0	3.5					GC and pointed POs
	Lady Terra	461	574	80	17	80	0	3	1.078	0	0	0	0	0.0	4.0	4.0	3.0	3.0					sl powdery scab, oblong to long tuber type
	Lady Anna	403	569	71	20	71	0	9	1.078	10	0	0	0	0.0	3.0	4.0	4.0	3.0					bright appearance, oblong to long tuber type
	Lady Claire	301	460	65	34	65	0	1	1.081	0	0	0	0	0.0	2.5	2.0	1.0	3.5					tr powdery scab, poor skin finish
	MEAN	496	642	77	17	77	0	7	1.068	2	3	0	0	0.2	3.2	2.9	3.2	3.4					
RED SKIN TYPE	W8890-1R	566	629	90	8	90	0	2	1.071	0	0	0	0.0	4.0	3.0			3.5	4.0	4.0	2.0	mod silver scurf, nice appearance	
	W8405-1R	533	659	81	15	81	0	4	1.063	0	20	50	0	0.0	3.5	3.5		2.5	2.5	3.0	2.5	mod silver scurf, tr powdery scab, oval shape	
	Red Marker #2	471	540	87	13	87	0	0	1.083	0	0	0	0	0.5	4.0	3.5		2.0	3.0	3.5	3.0	tr powdery scab, mod silver scurf	
	MEAN	524	609	86	12	86	0	2	1.072	0	7	17	0	0.2	3.8	3.3		2.7	3.2	3.5	2.5		
ROUND WHITE TYPE	White Beauty	562	608	92	7	92	0	1	1.071	0	0	10	0	0.0	3.5	5.0						sl powdery scab	
	Harmony	551	648	85	9	85	0	6	1.067	0	20	0	0	0.0	2.5	3.5						misshapen and knobby POs	
	AF4138-8	543	616	88	12	88	0	0	1.070	0	0	0	0	3.0	4.0	3.5						severe powdery scab	
	MSY111-1	530	631	84	4	81	3	12	1.068	0	0	0	0	0.0	3.5	4.0						tr powdery scab, GC in POs, large round tuber type	
	Libertie	407	625	65	14	65	0	21	1.055	10	0	20	0	0.0	3.0	4.0						mod powdery scab, non uniform tuber type	
	Moonlight	387	454	85	13	85	0	2	1.072	0	10	0	0	0.0	4.5	4.5						severe alligator hide, surface cracking	
Rock	308	507	61	39	61	0	0	1.075	0	0	10	0	0.5	3.0	3.0							oval tuber type, poor skin finish	
	MEAN	470	584	80	14	80	0	6	1.068	1	4	3	3	0.5	3.4	3.9							
TRIAL MEAN		490	610	80	15	80	0	6	1.069	1	4	4	1	0.3	3.4	3.4	3.2	3.4	2.7	3.2	3.5	2.5	

¹SIZE

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

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: 6/20/18
Rating 1-5
1: Slow emergence
5: Early emergence

⁶VINE MATURITY RATING

Date: 8/21/18
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

FIELD DATA

Planting Date 5/18/18
Vine Kill Date 9/5/18
Harvest Date 10/13/18
Days (planting to vine kill) 110
Days (planting to harvest) 148
GDD₄₀ MAWN Station Kalkaska
GDD₄₀ (planting to vine kill) 2914
Seed Spacing 10"
Row Width 34"
Harvest Length 23"

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

Kitchen Farms Strip Trial

Planting: 5/18/18 Vine Kill: 9/5/18 Harvest:10/13/18
GDD₄₀: 2914

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	Actrice	836	865	97	1	96	1	2	1.056	0	0	0	0.0	3.0	2.5	3.0	3.5					misshapen POs
	NY149	707	772	91	8	91	0	1	1.079	0	0	0	0.0	4.0	3.5	3.0	3.5					mod powdery scab, pink eyes
	Laperla	657	717	92	6	92	0	2	1.056	10	0	0	1.0	4.0	2.0	3.0	1.5					
	Wendy	628	756	83	17	83	0	0	1.067	0	0	0	0.0	3.0	2.5	4.0	3.5					tr powdery scab, oval to oblong
	MSX156-1Y	618	637	97	2	91	6	1	1.064	0	0	0	0.0	3.5	2.5	2.5	2.5					sl powdery scab, uniform larger size profile
	Bonnata	571	684	84	7	84	0	9	1.070	0	0	0	0.0	4.0	3.5	1.5	1.5					non uniform tuber type, knobs and points in POs
	Soraya	570	663	86	8	86	0	6	1.061	0	0	0	0.0	3.5	2.5	3.5	3.5					no powdery scab, misshapen POs
	MS1252-1Y	561	693	81	6	81	0	13	1.072	0	0	0	0.0	3.0	2.5	2.5	2.0					sl powdery scab, mod GC in POs
	AC10376-1W/Y	439	605	73	26	73	0	1	1.068	0	30	0	1.0	3.0	2.0	3.0	3.5					misshapen POs
	MS2407-2Y	420	470	90	6	88	2	4	1.082	0	0	0	0.0	3.0	2.0	2.5	2.0					mod alligator hide, non uniform tuber type
Yukon Gold	413	455	91	7	91	0	2	1.084	30	0	0	0	0.0	3.5	2.0	3.0	3.0					sl alligator hide and powdery scab, non uniform tuber type
Alegria	390	459	85	15	85	0	0	1.072	0	0	0	0.0	4.0	3.5	2.0	3.0					tr powdery scab	
Jazzy	101	403	25	70	25	0	5	1.062	0	0	0	0.5	4.0	2.5	4.0	3.5					tr powdery scab, pear shaped tubers, bright appearance	
MEAN	532	629	83	14	82	1	4	1.069	3	2	0	0.2	3.5	2.6	2.9	2.8						
RED SKIN TYPE	AF4831-2R	665	757	88	7	88	0	5	1.064	10	10	10	0.0	3.0	4.0			3.0	3.0	3.0	2.5	mod silver scurf, nice oval uniform tuber type
	Cerata	639	721	89	7	89	0	4	1.067	10	0	10	0.0	3.5	2.5			2.5	2.5	4.0	2.5	tr silver scurf
	CO98012-5R	619	704	88	8	87	1	4	1.079	10	10	0	0.0	3.0	3.0			3.5	4.0	3.0	2.0	sl powdery scab, mod silver scurf
	Dark Red Norland	309	352	88	8	88	0	4	1.059	10	0	10	0	0.0	3.5	1.0			1.5	3.0	3.5	1.5
MEAN	558	633	88	8	88	0	4	1.067	10	5	8	0	0.0	3.3	2.6			2.6	3.1	3.4	2.1	
ROUND WHITE TYPE	Reba	567	605	94	4	93	1	2	1.073	10	0	0	0.0	3.0	2.0							sl powdery scab
	AF5280-5	468	505	93	6	93	0	1	1.065	0	0	0	0.0	3.5	1.4							severe powdery scab
	Nadine	420	511	82	17	82	0	1	1.052	0	0	0	0.0	3.0	4.5							tr powdery scab, nice bright appearance
	Superior	305	387	79	14	79	0	7	1.073	10	0	0	0.0	3.0	1.5							non uniform tuber type
MEAN	440	502	87	10	87	0	3	1.066	5	0	0	0	0.0	3.1	2.4							
NOVELTY TYPE	MSV443-1PP	576	646	89	9	89	0	2	1.067	0	0	0	0.0	3.0	3.5			3.5	3.0	4.0	3.0	mod silver scurf, misshapen in POs
	AF5245-1P	444	541	82	10	82	0	8	1.079	30	20	0	0.0	4.5	2.5			2.5	4.0	4.0	2.0	mod silver scurf, GC and misshapen POs
	MSW148-1P	330	440	75	22	75	0	3	1.080	0	0	0	1.0	4.5	3.0			2.0	3.5	3.5	3.5	mod powdery scab
MEAN	450	542	82	14	82	0	4	1.075	10	7	0	0	0.3	4.0	3.0			2.7	3.5	3.8	2.8	
TRIAL MEAN	519	607	84	12	84	0	3	1.069	5	3	1	0	0.2	3.5	2.6	2.9	2.8	2.6	3.3	3.6	2.4	

¹ SIZE Non-russet tablestock Bs: < 1 7/8" As: 1 7/8" - 3 1/4" OV: > 3 1/4" PO: POs	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: 6/20/18 Rating 1-5 1: Slow emergence 5: Early emergence	⁶ VINE MATURITY RATING Date: 8/21/18 Rating 1-5 1: Early (vines completely dead) 5: Late (vigorous vines, some flowering)	FIELD DATA Planting Date: 5/18/18 Vine Kill Date: 9/5/18 Harvest Date: 10/13/18 Days (planting to vine kill): 110 Days (planting to harvest): 148 GDD ₄₀ MAWN Station: Kalkaska GDD ₄₀ (planting to vine kill): 2914 Seed Spacing: 10" Row Width: 34" Harvest Length: 23"
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 Variety Trial

Verbrigge Potato Farm

Planting:5/31/18 Vine Kill:9/12/18 Harvest:10/12/18
GDD₄₀: 2640

LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ³ (%)						YELLOW FLESH		RED SKIN						
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	HH	VD	IBS	BC	COMMON SCAB RATING ⁴	VINE VIGOR ⁵	VINE MATURITY ⁶	WAXINESS ⁷	FLESH COLOR ⁸	WAXINESS ⁷	SKIN COLOR ⁹	UNIFORMITY ¹⁰	SILVER SCURF ¹¹	
YELLOW SKIN TYPE	Laperla	480	509	95	1	67	28	4	1.056	0	0	0	0	1.0	5.0	2.5	5.0	3.0				
	Orlena	468	472	99	1	83	16	0	1.066	0	0	0	0	1.0	1.0	3.0	5.0	4.0				
	MST252-1Y	422	445	95	5	77	18	0	1.079	0	0	0	0	1.0	2.0	3.5	5.0	2.0				
	Bonnata	421	489	86	8	84	2	6	1.075	0	0	0	0	3.0	4.0	3.0	5.0	3.0				
	Yukon Gold	327	328	99	1	56	43	0	1.083	10	10	0	0	1.0	3.0	3.5	4.0	3.0				
	Queen Anne	320	400	80	18	80	0	2	1.067	0	0	0	0	0.0	3.0	3.0	3.0	4.0	4.0			
	Jazzy	260	436	60	33	60	0	7	1.073	0	10	0	0	0.0	4.0	3.5	4.0	3.0				
MEAN	386	440	88	10	72	15	3	1.071	1	3	0	0	1.0	3.1	3.1	4.4	3.1					
RED SKIN TYPE	AF4831-2R	495	626	79	20	76	3	1	1.073	0	0	0	0	0.0	3.0	3.5		4.0	4.0	4.0	0.0	
	Cerata	470	480	98	0	69	29	2	1.075	0	0	0	0	0.0	4.0	4.5		4.0	2.0	4.0	0.0	
	Red Marker #2	402	419	96	4	92	4	0	1.080	0	0	0	0	0.0	4.0	3.5		4.0	3.0	4.0	0.0	
	CO98012-5R	355	387	92	6	84	8	2	1.079	0	0	0	0	0.0	4.0	3.5		4.0	4.0	4.0	0.0	
	W8405-1R	351	405	87	13	81	6	0	1.071	0	0	0	0	0.0	4.0	3.5		4.0	3.0	5.0	0.0	
	W8890-1R	255	282	91	8	91	0	1	1.071	20	0	0	0	0.0	4.0	3.5		4.0	4.0	5.0	0.0	
	Dark Red Norland	242	254	96	4	87	9	0	1.068	0	0	0	0	0.0	5.0	2.0		3.0	2.0	4.0	0.0	
MEAN	367	407	91	8	83	8	1	1.074	3	0	0	0	0.0	4.0	3.4		3.9	3.1	4.3	0.0		
NOVELTY TYPE	AF5245-1P	407	422	96	4	74	22	0	1.084	0	0	0	0	0.0	3.0	3.5		4.0	5.0	5.0	0.0	
	MSX324-1P	399	414	96	4	82	14	0	1.081	0	0	0	0	0.0	3.0	3.0		4.0	3.0	5.0	0.0	
	MSW148-1P	278	310	90	7	90	0	3	1.080	0	0	0	0	2.0	4.0	3.5		4.0	2.0	5.0	0.0	
MEAN	361	382	94	5	82	12	1	1.082	0	0	0	0	0.7	3.3	3.3		4.0	3.3	5.0	0.0		
TRIAL MEAN	374	416	90	8	78	12	2	1.074	2	1	0	0	0.5	3.5	3.3	4.4	3.1	3.9	3.2	4.5	0.0	

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: 6/29/18
Rating 1-5
1: Slow emergence
5: Early emergence

⁶**VINE MATURITY RATING**

Date: 8/29/18
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

FIELD DATA

Planting Date 5/31/18
Vine Kill Date 9/12/18
Harvest Date 10/12/18
Days (planting to vine kill) 104
Days (planting to harvest) 134
GDD₄₀ MAWN Station Escanaba
GDD₄₀ (planting to vine kill) 2640
Seed Spacing 10"
Row Width 36"
Harvest Length 23'

⁷**WAXINESS RATING**

1: Heavy netting, buff
5: Waxy, smooth

⁸**FLESH**

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 Variety Trial Walther Farms Cass City Strip Trial

Planting: 5/17/18 Vine Kill: 8/30/18 Harvest: 9/7/18
GDD₄₀: 3136

LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ³ (%)					YELLOW FLESH		RED SKIN				COMMENTS				
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	HH	VD	IBS	BC	COMMON SCAB RATING ⁴	VINE VIGOR ⁵	VINE MATURITY ⁶	WAXINESS ⁷	FLESH COLOR ⁸	WAXINESS ⁷		SKIN COLOR ⁹	UNIFORMITY ¹⁰	SILVER SCURF ¹¹	
YELLOW SKIN TYPE	Yukon Gold	298	345	86	6	86	0	8	1.080	10	10	0	0	0.0	3.5	3.0	3.0	3.0					misshapen Pos
	Wendy	275	436	63	25	63	0	12	1.062	0	0	0	0	0.0	3.0	4.0	2.5	3.0					
	Soraya	186	298	62	21	62	0	17	1.059	0	0	0	0	0.5	3.0	4.0	2.0	3.5					mod alligator hide, mod netting
	Alegria	169	246	69	18	69	0	13	1.074	0	0	10	0	0.0	3.5	3.5	1.5	2.5					
	MST252-1Y	165	255	65	25	65	0	10	1.073	0	20	0	0	1.0	2.5	3.0	1.5	1.0					netted skin
	MEAN	232	331	70	18	70	0	13	1.069	3	3	3	0	0.1	3.3	3.6	2.3	3.0					
RED SKIN TYPE	AF5806-1	357	455	79	14	79	0	7	1.063	0	0	0	0	0.0	4.0	4.0		3.0	1.0	3.0	0.0	0.0	light pink skin, skinning
	NDAF1134884B-1	272	402	68	13	68	0	19	1.058	0	10	0	0	0.0	3.0	2.0		2.5	3.0	4.0	0.0	0.0	light skin netting
	NDTX4784-7R	254	313	81	15	81	0	4	1.061	0	10	0	0	0.0	2.0	1.5		3.0	3.5	4.0	0.0	0.0	foliar bronzing, skinning
	AF5831-2	248	334	74	19	74	0	7	1.078	0	0	0	0	0.5	3.5	3.0		2.5	2.5	3.0	0.0	0.0	sl skinning
	CO06215-2R	236	374	63	33	63	0	4	1.074	0	10	0	0	0.0	3.0	4.5		2.0	3.5	4.0	1.0	1.0	nice round type, mod skinning
	NDAF102696C-5	224	344	65	33	65	0	2	1.067	0	0	0	0	0.0	3.0	1.5		2.5	3.0	3.0	0.0	0.0	attractive round type, severe skinning
	CO99076-6R	214	298	72	15	72	0	13	1.068	0	0	0	0	0.0	3.0	4.0		3.0	3.5	3.5	0.0	0.0	
	NDAF12129-6	198	354	56	32	56	0	12	1.070	0	20	0	0	0.0	3.0	3.0		3.0	3.5	4.0	0.0	0.0	sl skinning
	NDAF12143-1	195	295	66	25	66	0	9	1.063	0	20	0	0	0.0	3.0	3.0		2.0	3.5	3.0	1.5	1.5	
	Dark Red Norland	194	231	84	12	84	0	4	1.058	0	20	0	0	0.5	3.5	1.5		2.0	4.0	3.0	0.0	0.0	attractive deep skin color
	CO04159-1R	186	280	66	30	66	0	4	1.063	0	0	0	0	1.5	2.5	2.0		3.0	3.0	3.5	0.5	0.5	round tuber type
	NDAF12198B-5	162	292	55	38	55	0	7	1.052	0	0	0	0	1.5	3.0	2.0		2.0	3.0	2.0	0.5	0.5	
	COTX02293-4R	158	286	55	38	55	0	7	1.061	0	20	0	0	0.0	3.0	2.5		3.0	4.0	4.0	0.0	0.0	
	CO99256-2R	133	229	58	19	58	0	23	1.066	0	40	0	0	0.0	3.0	4.5		3.0	4.0	4.0	0.0	0.0	sl skinning, nice skin color
COTX00104-6R	82	119	78	14	69	9	8	1.063	0	20	0	0	0.0	1.5	3.0		1.0	4.0	4.0	0.0	0.0		
MSX569-1R	62	119	52	42	52	0	6	1.061	0	0	0	0	0.0	2.0	3.0		3.0	4.0	3.0	0.0	0.0	red in vascular ring	
MEAN	239	340	71	21	71	0	8	1.066	0	9	0	0	0.1	3.1	2.8		2.6	3.1	3.5	0.3			
NOVELTY TYPE	MSZ413-6P	195	333	59	36	59	0	5	1.068	0	0	0	0	0.0	3.5	3.5		3.0	4.0	4.0	0.0	0.0	
	AF5245-1P	167	259	64	26	64	0	10	1.072	0	10	0	0	1.0	3.5	3.0		2.5	4.0	4.0	0.0	0.0	
	MSX324-1P	155	291	53	35	53	0	12	1.079	0	0	0	0	2.0	3.0	2.5		2.5	3.5	1.5	0.5	0.5	variable skin color
MEAN	172	294	59	32	59	0	9	1.073	0	3	0	0	1.0	3.3	3.0		2.7	3.8	3.2	0.2			
TRIAL MEAN	199	300	66	24	66	0	9	1.066	0	9	0	0	0	3.0	3.0		2.3	3.0	2.6	3.4	3.4	0.2	

<p>¹SIZE Non-russet tablestock Bs: < 1 7/8" As: 1 7/8" - 3 1/4" OV: > 3 1/4" PO: Pickouts</p>	<p>²SPECIFIC GRAVITY Data not replicated</p>	<p>³RAW TUBER QUALITY (percent of tubers out of 10) HH: Hollow Heart VD: Vascular Discoloration IBS: Internal Brown Spot BC: Brown Center</p>	<p>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</p>	<p>⁵VINE VIGOR RATING Date: 6/20/18 Rating 1-5 1: Slow emergence 5: Early emergence</p>	<p>⁶VINE MATURITY RATING Date: 6/20/18 Rating 1-5 1: Early (vines completely dead) 5: Late (vigorous vines, some flowering)</p>	<p>FIELD DATA Planting Date 5/17/18 Vine Kill Date 8/30/18 Harvest Date 9/7/18 Days (planting to vine kill) 105 Days (planting to harvest) 113 GDD₄₀ MAWN Station Fairgrove GDD₄₀ (planting to vine kill) 3136 Seed Spacing 10" Row Width 34" Harvest Length 15'</p>
<p>⁷WAXINESS RATING 1: Heavy netting, buff 5: Waxy, smooth</p>	<p>⁸FLESH 1: White 5: Dark yellow</p>	<p>⁹SKIN COLOR 1: Light pink 5: Dark red</p>	<p>¹⁰UNIFORMITY OF SKIN COLOR 1: Highly variable, non-uniform 5: Highly uniform, color throughout</p>	<p>¹¹SILVER SCURF 0: No incidence of silver scurf 5: High incidence of silver scurf</p>		

2018 Replicated Tablestock Variety Trial

Walther Farms Hemlock

Planting: 5/17/18 Vine Kill: 8/30/18 Harvest: 9/7/18
GDD₄₀: 3159

LINE	CWT/A		PERCENT OF TOTAL ¹				RAW TUBER QUALITY ³ (%)						YELLOW FLESH		RED SKIN			COMMENTS				
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	HH	VD	IBS	BC	COMMON SCAB RATING ⁴	VINE VIGOR ⁵	VINE MATURITY ⁶	WAXINESS ⁷	FLESH COLOR ⁸		WAXINESS ⁷	SKIN COLOR ⁹	UNIFORMITY ¹⁰	SILVER SCURF ¹¹
YELLOW SKIN TYPE	Laperia	690	818	85	8	84	1	7	1.052	0	17	30	0	3.7	3.7	2.5	2.8	2.5				non uniform tuber type
	MSX156-1Y	605	661	93	4	91	2	3	1.063	0	3	3	0	1.7	3.0	4.3	1.7	2.8				sl alligator hide
	Orlena	517	644	80	12	80	0	8	1.060	0	0	0	10	2.3	3.0	3.2	2.5	3.8				mod alligator hide, pear shaped POs
	W9576-11Y	515	592	87	9	87	0	4	1.057	0	17	0	0	0.2	3.5	2.5	1.5	3.2				non uniform tuber type, sl alligator hide
	NY149	504	586	86	13	86	0	1	1.072	0	10	3	0	0.2	3.3	3.7	1.0	3.0				uniform oval tuber type
	Alegria	504	593	85	6	85	0	9	1.072	0	7	0	0	0.5	3.3	3.3	1.0	3.5				knobs, deep apical eyes in POs
	MST252-1Y	466	571	82	9	82	0	9	1.071	0	10	0	0	0.2	2.7	3.3	1.2	2.3				mod alligator hide, non uniform tuber type
	Bonnata	457	651	70	18	70	0	12	1.069	0	20	7	0	1.3	3.3	3.7	2.8	2.0				heat knobs and misshapen Pos
	MSZ407-2Y	455	493	92	4	92	0	4	1.076	0	7	0	0	0.2	3.0	2.8	1.2	2.3				severe alligator hide
	Soraya	430	577	75	17	75	0	8	1.059	0	10	0	0	0.0	3.0	3.2	1.5	3.8				sl alligator hide, pointed POs
	Yukon Gold	429	490	88	6	88	0	6	1.077	13	3	0	3	3.5	3.2	4.0	1.5	2.8				misshapen POs
	Queen Anne	406	649	62	35	62	0	3	1.058	0	0	0	0	0.5	3.2	2.5	3.0	3.2				sl alligator hide, oblong tuber type
Wendy	271	545	50	45	50	0	5	1.061	0	13	0	0	3.0	3.0	3.8	3.5	3.2				non uniform tuber type, oblong	
AC10376-1W/Y	247	479	52	38	52	0	10	1.064	0	17	0	0	2.2	3.0	3.0	1.5	3.0				misshapen POs, non uniform tuber type	
Jazzy	50	458	11	79	11	0	10	1.062	0	37	3	0	1.7	3.7	3.2	3.2	2.3				longer tuber type, sl heat knobs	
MEAN	436	587	73	20	73	0	7	1.065	1	11	3	1	1.4	3.2	3.3	2.0	2.9					
RED SKIN TYPE	Dark Red Norland	646	753	86	9	86	0	5	1.061	0	13	0	0	0.3	3.2	3.0		2.0	2.3	2.0	3.8	tr alligator hide
	Cerata	546	628	87	9	87	0	4	1.065	0	0	0	0	2.5	3.2	4.7	2.0	2.3	4.0	1.7		GC in POs
	W8890-1R	515	616	84	15	84	0	1	1.062	0	20	0	0	4.0	3.8	2.3	2.7	4.0	3.3	2.0		uniform tuber type, missapen POs
	AF4831-2R	479	673	71	25	71	0	4	1.059	0	20	0	0	4.5	3.2	2.7	3.0	3.0	3.0	2.7		oval to oblong tuber type
	Red Marker #2	464	547	85	13	85	0	2	1.079	0	17	0	0	2.2	3.8	3.0	1.8	2.5	3.3	2.7		uniform round tuber type, mod skinning
	W8405-1R	442	541	82	14	82	0	4	1.059	0	10	20	0	3.0	3.3	2.8	2.8	2.3	2.3	3.0		
	W8893-1R	333	467	71	24	71	0	5	1.058	0	13	0	0	0.8	3.8	1.8	3.5	3.3	2.2	3.0		sl alligator hide
CO98012-5R	311	467	66	32	66	0	2	1.071	0	0	0	0	4.8	3.3	3.7	3.7	4.2	4.2	4.2	2.7		small uniform tuber type
MEAN	467	587	79	18	79	0	3	1.064	0	12	3	0	2.8	3.5	3.0		2.7	3.0	3.0	2.7		
NOVELTY	AF5245-1P	411	501	82	13	82	0	5	1.074	0	0	3	0	2.3	3.8	3.2		2.5	4.2	3.0	3.5	
TRIAL MEAN	445	583	76	19	75	0	5	1.065	1	11	3	1	1.9	3.3	3.2	2.0	2.9	2.7	3.1	3.0	2.8	
ANOVA p-value	<.0001	<.0001	<.0001	<.0001	<.0001	0.5123	0.0012	<.0001	<.0001	0.1009	<.0001	0.0059	<.0001	<.0001	<.0001	<.0001	<.0001	0.0012	<.0001	0.0008	0.0523	
HSD	223.0	251.3	16.3	12.6	16.6	-	9.7	0.007	0.4	-	1.4	0.8	2.8	0.8	1.9	1.2	0.9	1.4	1.1	1.6	-	

¹SIZE	²SPECIFIC GRAVITY	³RAW TUBER QUALITY	⁴COMMON SCAB RATING	⁵VINE VIGOR RATING	⁶VINE MATURITY RATING	FIELD DATA
Non-russet tablestock	Three Replicates	(percent of tubers out of 10)	0.0: Complete absence of surface or pitted lesions	Date: 6/31/18	Date: 8/3/18	Planting Date
Bs: < 1 7/8"		HH: Hollow Heart	1.0: Presence of surface lesions	Rating 1-5	Rating 1-5	Vine Kill Date
As: 1 7/8" - 3 1/4"		VD: Vascular Discoloration	2.0: Pitted lesions on tubers, though coverage is low	1: Slow emergence	1: Early (vines completely dead)	Harvest Date
OV: > 3 1/4"		IBS: Internal Brown Spot	3.0: Pitted lesions common on tubers	5: Early emergence	5: Late (vigorous vines, some flowering)	Days (planting to vine kill)
PO: POs		BC: Brown Center	4.0: Pitted lesions severe on tubers			Days (planting to harvest)
			5.0: More than 50% of tuber surface area covered in pitted lesions			GDD ₄₀ MAWN Station
						GDD ₄₀ (planting to vine kill)
						Seed Spacing
						Row Width
						Harvest Length

⁷WAXINESS RATING	⁸FLESH	⁹SKIN COLOR	¹⁰UNIFORMITY OF SKIN COLOR	¹¹SILVER SCURF
1: Heavy netting, buff	1: White	1: Light pink	1: Highly variable, non-uniform	0: No incidence of silver scurf
5: Waxy, smooth	5: Dark yellow	5: Dark red	5: Highly uniform, color throughout	5: High incidence of silver scurf

2018 Tablestock Variety Trial Walther Farms Hemlock Strip Trial

Planting: 5/17/18 Vine Kill: 8/30/18 Harvest: 9/7/18
GDD₄₀: 3159

LINE	CWT/A		PERCENT OF TOTAL ¹				RAW TUBER QUALITY ³ (%)						YELLOW FLESH		RED SKIN				COMMENTS							
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	HH	VD	IBS	BC	COMMON SCAB RATING ⁴	VINE VIGOR ⁵	VINE MATURITY ⁶	WAXINESS ⁷	FLESH COLOR ⁸	WAXINESS ⁷		SKIN COLOR ⁹	UNIFORMITY ¹⁰	SILVER SCURF ¹¹				
YELLOW SKIN TYPE	Actrice	596	700	85	7	85	0	8	1.058	0	40	0	0	0.5	3.0	2.5	1.5	3.0								
	NY149	568	641	89	9	89	0	2	1.071	0	30	0	0	1.0	4.0	4.0	1.5	2.0						skinning, tr alligator hide		
	Alegria	511	604	85	9	85	0	6	1.072	0	0	0	0	1.5	3.5	4.0	2.5	3.5						non uniform tuber type		
	Soraya	509	675	75	13	75	0	12	1.060	0	10	0	0	0.0	4.0	4.0	1.5	3.0						tr alligator hide		
	Yukon Gold	497	548	91	3	91	0	6	1.076	10	20	0	0	2.5	3.0	4.0	2.0	2.5							sl alligator hide	
	W9576-11Y	430	542	79	13	79	0	8	1.057	0	20	0	0	1.0	3.5	2.5	-	-								
	MST252-1Y	411	520	79	11	79	0	10	1.071	0	30	0	0	0.5	2.0	4.0	1.5	2.5							mod alligator hide	
	CO10097-2W/Y	383	518	74	22	74	0	4	1.068	0	30	0	10	2.5	3.0	3.5	1.0	3.0							sl alligator hide	
	Queen Anne	382	593	64	34	64	0	2	1.058	0	10	0	0	0.0	3.0	2.5	2.5	3.0							sl to mod alligator hide, oval to oblong tuber shape	
	Lady Terra	360	527	68	29	68	0	3	1.081	0	20	10	0	3.5	3.5	4.0	1.0	2.0							sl alligator hide, poor general appearance	
	Wendy	339	609	56	42	56	0	2	1.064	0	10	0	0	4.0	3.0	4.0	2.0	2.5							long to oblong tuber type	
	CO10064-1W/Y	272	433	63	27	63	0	10	1.082	0	20	30	0	2.0	3.5	4.5	1.0	4.0								
	Lady Claire	271	462	59	32	59	0	9	1.083	0	0	0	0	3.0	3.0	3.0	1.0	2.5							some pointed tubers	
	CO10098-4W/Y	228	449	51	49	51	0	0	1.083	0	0	10	0	5.0	4.0	3.0	1.5	3.0							small uniform tuber tupe	
Rock	218	442	49	51	49	0	0	1.077	0	0	50	0	4.0	3.0	5.0	3.0	2.5							non uniform tuber type		
Lady Anna	193	415	46	51	46	0	3	1.077	0	40	0	0	3.5	3.0	4.0	2.0	3.0							long to oblong tuber type		
CO10098-5W/Y	77	316	24	69	24	0	7	1.084	0	0	0	0	5.0	3.5	2.5	1.0	5.0									
MEAN	385	542	70	25	70	0	5	1.071	1	18	6	1	2.2	3.3	3.7	1.7	2.8									
RED SKIN TYPE	Dark Red Norland	440	514	86	7	86	0	7	1.062	0	20	0	0	1.0	3.0	2.0			2.5	3.0	3.0	3.0	3.0	3.0	mod alligator hide	
	QSNDSU07-4R	438	544	81	10	81	0	9	1.060	0	20	90	0	4.0	3.5	2.5			2.0	2.5	3.0	2.5	3.0	2.5	bronzed foliage	
	AF4831-2R	397	533	74	22	74	0	4	1.059	0	30	10	0	4.0	3.0	2.0			3.0	2.5	3.0	3.0	3.0	3.0	oval tuber type	
	Red Marker #2	324	442	73	22	73	0	5	1.079	0	0	0	0	3.0	3.5	3.5			2.5	2.5	2.0	4.0	4.0	4.0		
	CO98012-5R	284	469	60	40	60	0	0	1.070	0	0	0	0	5.0	3.5	4.0			3.5	4.5	4.0	3.5	3.5	3.5		
MEAN	377	500	75	20	75	0	5	1.066	0	14	20	0	3.4	3.3	2.8			2.7	3.0	3.0	3.0	3.2	3.2	3.2		
NOVELTY	MSX324-1P	446	528	84	12	84	0	4	1.073	0	0	10	0	0.5	3.0	2.0			3.0	4.0	2.0	3.5	3.5	3.5		
TRIAL MEAN	386	532	71	23	71	0	5	1.070	0	16	10	0	3.0	3.3	3.3	1.7	2.9	2.8	3.2	2.8	3.0	3.2	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: 6/31/18 Rating 1-5 1: Slow emergence 5: Early emergence	⁶ VINE MATURITY RATING Date: 6/3/18 Rating 1-5 1: Early (vines completely dead) 5: Late (vigorous vines, some flowering)	FIELD DATA Planting Date 5/17/18 Vine Kill Date 8/30/18 Harvest Date 9/7/18 Days (planting to vine kill) 105 Days (planting to harvest) 113 GDD ₄₀ (MAWN Station) 3159 GDD ₄₀ (planting to vine kill) Seed Spacing 10" Row Width 34" Harvest Length 15'
⁷ WAXINESS RATING 1: Heavy netting, buff 5: Waxy, smooth	⁸ FLESH 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 Yellow Flesh Variety Descriptions

Entry	Pedigree	2018 Scab Rating*	Characteristics
Actrice	Meijer Potato	0.3	High tuber set, resistant to leaf roll and several nematode species, highest yield in 2018
Alegria	Norika America, LLC	0.6	High yield potential, long-oval tuber shape, resistant to Ro1 Ro4 cyst nematodes, PVY, and leaf roll, average yield potential, good internal quality
Bonnata	Bernadette x RZ 95-6643	1.5	Oval shaper tubers, light yellow flesh, medium maturity, susceptible to vascular discoloration
Jazzy	Meijer Seed Potato Ltd.	0.7	Early maturity, small tuber size profile, light yellow flesh, waxy skin
Jelly	Sun Rain	0.5	High yield potential, oblong tubers, medium yellow flesh, medium to late maturity, resistant to common scab, PVY, Rhizoctonia, blackleg, and late blight
Lady Anna	Meijer Seed Potato Ltd.	1.2	Light yellow skin with yellow flesh, oblong shape, uniform, medium maturity, resistant to bruising and common scab, high specific gravity
Lady Claire	Meijer Seed Potato Ltd.	1.0	Round tuber size, light yellow flesh, smaller tuber size profile, some skin flaking
Lady Terra	Meijer Seed Potato Ltd.	1.2	High yield potential, uniform tubers, yellow skin with yellow flesh, medium to late maturity, resistant to common scab, adapted to a broad range of soil types

(2018 Yellow Flesh Varieties cont.)

Entry	Pedigree	2018 Scab Rating*	Characteristics
Laperla	Solanum International	1.7	High tuber set, light yellow skin, oval tuber shape, early maturity, good internal quality
Orlena	Emergo x Laura (HZPC)	1.0	Oval to oblong shape, light yellow flesh, resistance to blackspot bruise, some pear shaped tubers
Queen Anne	Solanum International	0.4	Oval to oblong shape, yellow flesh, yellow skin, shallow eyes, medium to high scab resistance, PVY resistance and resistance to Ro1 and Ro4 nematodes, attractive appearance
Rock	Meijer Seed Potato Ltd.	2.0	High yield potential, suitable for table and french fries, yellow skin and yellow flesh, oval shape, prefers heavier soils, nematode resistance
Soraya	Norika America, LLC Marabeel x 1.307 120-93	0.2	High yield potential, late maturity, large oval-oblong tubers with yellow skin and yellow flesh, low specific gravity, resistant to common and powdery scab
Wendy	Norika America, LLC	1.3	Yellow skin and flesh, oval shape, resistant to Ro1 and Ro4 nematodes, resistant to common scab, moderate resistance to leaf and tuber blight
Yukon Gold	Norgleam x W5279-4	1.3	Moderate yields, medium maturity, oval shaped with yellow-white skin and light yellow flesh, common scab susceptible
AC10376-1W/Y	Gala x Granola	1.6	High yield potential, full season maturity, resistance to blackspot bruise

(2018 Yellow Flesh Varieties cont.)

Entry	Pedigree	2018 Scab Rating*	Characteristics
CO10064-1W/Y	CO00412-5W/Y x CO04099-4W/Y	1.4	B sized tuber profile, above average specific gravity, full season maturity
CO10097-2W/Y	CO04067-10W/Y x CO00412-5W/Y	2.9	Medium maturity, susceptible to vascular discoloration and common scab, average yield potential
CO10098-5W/Y	CO04099-3W/Y x CO04099- 3W/Y	2.5	High specific gravity, full season maturity, B sized tuber profile, common scab susceptible
CO10098-4W/Y	CO04099-3W/Y x CO04099- 3W/Y	2.5	Smaller tuber size, high specific gravity, good internal quality
MST252-1Y	MSL024-AY x MSL211-3	0.7	Average yield potential, good internal quality, light yellow skin color
MSV093-1Y	McBride x MSP408-14Y	0.5	Above average yield, susceptible to vascular discoloration, full season maturity
MSX156-1Y	MSI005-20Y x Boulder	1.1	High yield potential, good internal quality, medium yellow flesh color
MSX407-2Y	McBride x OP	0.3	Average yield potential, above average specific gravity, excellent internal quality
NY149	Yukon Gold x Keuka Gold	0.5	Mid to late season, slightly-textured skin and pink eyes, oval shape, medium yellow flesh, resistance to Ro1 cyst nematode, moderate common scab resistance
W9576-11Y	Dakota Pearl x Gala	0.3	Medium maturity, high yield potential, buff skin type, nice yellow flesh color

* Scab rating based on 0-5 scale; 0 = most resistant and 5 = most susceptible. Common scab data provided by Potato Outreach Program. Line descriptions provided by potato breeding programs and updated by Potato Outreach Program following evaluations at trial locations throughout Michigan.

2018 Red Skin Variety Descriptions

Entry	Pedigree	2018 Scab Rating*	Characteristics
Cerata	Stet Holland	0.8	Medium to late maturity, oval shaped tubers, white flesh and dark red skin, adapted to all soil types, suitable for storage, resistant to potato cyst nematodes Ro1, moderate resistance to common scab
Dark Red Norland	Redkote x ND626	0.4	Broadly adapted, low to moderate yields, early season maturity, smooth, oblong, slightly flattened tubers, common scab tolerant
Red Marker #2	-	0.9	Above average yield and specific gravity, good internal quality
AF4831-2R	ND028946B x ND8555-8R	1.5	Mid-season, bright red-skinned, white-fleshed variety with oblong tubers and small size profile, moderate common scab and verticillium resistance
AF5806-1	AF4614-2 x AF4566-4	0.0	Above average yield, excellent internal quality, average specific gravity
AF5831-2	Liberator x AF4566-4	0.5	Average yield, above average internal quality, some skinning observed in 2018
CO98012-5R	A79543-4R x AC91844-2	1.9	Attractive tuber size profile, dark red skin, susceptible to common scab
CO99076-6R	AC91848-1 x NDC5281-2R	0.0	Average specific gravity, good internal quality, medium red skin color and uniformity
CO99256-2R	NDC5281-2R x CO89097-2R	0.0	Susceptible to vascular discoloration, full season maturity

(2018 Red Skin Varieties cont.)

Entry	Pedigree	2018 Scab Rating*	Characteristics
CO04159-1R	AC97521-1R/Y x CO99076-6R	1.5	Round tuber type, minimal silver scurf
CO06215-2R	CO99256-2R x CO01156-1R	0.0	Average yield potential, good internal quality, uniform red skin
COTX00104-6R	ND3574-5R x C086218-2	0.0	Uniform dark red skin color, average specific gravity
COTX02293-4R	NDC5281-2R x ND3574-5R	0.0	Average specific gravity, acceptable internal quality, lower than average yield
MSX569-1R	MSS002-2R x MSS544-1R	0.0	High percentage B size tubes, early maturity and small vine type, red pigmentation in vascular ring
NDAF102696C-5	ND049326C-2P x ND8555-8R	0.0	Attractive round tuber type, severe skinning, good internal tuber quality
NDAF11348B-1	ND060570B-1R x ND8555-8R	0.0	Early maturity, above average yield, good internal tuber quality
NDAF12129-6	ND7132-1R x ND4659-5R	0.0	Above average specific gravity, uniform medium red skin
NDAF12143-1	ND8555-8R x Dakota Jewel	0.0	Comparable to trial average in yield, size breakdown, gravity, and internal tuber quality
NDAF12198B-5	ND060570B-1R x AND00272-1R	1.5	Textured skin, less uniform color, good internal quality
NDTX071258BS-1R	ND039035B-9R x ND4659-5R	1.5	Attractive round tuber shape and skin finish, many pickouts observed in 2018

(2018 Red Skin Varieties cont.)

Entry	Pedigree	2018 Scab Rating*	Characteristics
NDTX4784-7R	ND3574-5R x ND2050-1R	0.0	Very early maturing with small vine, average yield potential
QSNDSU07-4R	-	2.0	Susceptible to internal brown spot, above average yield, smooth light red skin
W8405-1R	Kankan x W2303-9R	0.4	High yield potential, oval to oblong tuber type, mid-season maturity
W8890-1R	W2169-1R x Dakota Rose	1.3	Fresh market, dark red skin color and smaller size profile, attractive appearance
W8893-1R	W1101R X Dakota Rose	0.4	Average yield potential, lower specific gravity, mid-season maturity

* Scab rating based on 0-5 scale; 0 = most resistant and 5 = most susceptible. Common scab data provided by Potato Outreach Program. Line descriptions provided by various potato breeding programs and updated by Potato Outreach Program following evaluations at various trial locations throughout Michigan.

2018 Round White Variety Descriptions

Entry	Pedigree	2018 Scab Rating*	Characteristics
Harmony	Nadine x Stamina (Caithness)	0.0	Long dormancy, resistance to black dot and bruising, susceptible to dry rot, powdery scab, and silver scurf
Libertie	Harmony x Diva (Caithness)	0.0	Moderately resistant to bruising, dry rot, common and powdery scab, susceptible to PVY
Moonlight	1463.1 x V394 (New Zealand Institute for Crop and Food Research)	0.0	Good internal quality, moderate resistance to powdery scab, bacterial soft rot, and late blight, high percentage US #1 tubers
Nadine	Caithness	0.5	Resistance to potato cyst nematode, bright skin color and appearance
Onaway	USDAX96-56 x Katahdin	1.3	Early maturity, average specific gravity, used primarily out-of-the field for fresh market, minimal internal defects, not recommended for storage
Reba (NY 87)	Monona x Allegany	0.3	High yield, bright tuber appearance, low incidence of internal defects, mid to late season maturity, medium specific gravity, resistance to golden nematode Ro1, common scab, verticillium wilt, and early blight, susceptible to late blight and PVY
Rock	-	0.5	High specific gravity, mid-season maturity, good internal quality
Superior	USDA96-56 x M59.44	0.0	Early maturity, round to oblong tubers, deep eyes, resistant to net necrosis and common scab, susceptible to verticillium wilt, pressure bruise issues in long-term storage

(2018 Round White Varieties cont.)

Entry	Pedigree	2018 Common Scab Rating*	Characteristics
White Beauty	New Zealand	0.0	Resistant to PVY and common scab, susceptible to late blight, high yield
AF4138-8	SA9707-6 x AF1953-4	1.1	Susceptible to vascular discoloration, early maturity, moderate scab resistance, blackspot resistance, smaller size profile
AF5280-5	ND7799C-1 x ND860-2	0.3	Average yield potential, susceptible to vascular discoloration, early maturity
MSX497-6	MSQ131-A x MSL268-D	1.7	Bright skin appearance, uniform round tuber type, mid-season maturity
MSY1111-1	MSQ086-3 x McBride	0.8	Round tuber shape, netted skin, mid-season maturity

* Scab rating based on 0-5 scale; 0 = most resistant and 5 = most susceptible. Common scab data provided by Potato Outreach Program. Line descriptions provided by various potato breeding programs and updated by Potato Outreach Program following evaluations at various trial locations throughout Michigan.

2018 Novelty Variety Descriptions

Entry	Pedigree	2018 Scab Rating*	Characteristics
AF5245-1P	Michigan Purple X Villeta Rose	0.5	Darker uniform skin color, larger vine type with earlier emergence
MSV235-2PY	Malinche x Colonial Purple	0.0	B-sized tuber profile, light yellow to cream flesh color
MSV443-1PP	MSU200-5PP x NDTX4271-5R	0.3	Mid to full season maturity, moderate silver scurf
MSW148-1P	Michigan Purple x MSP516-A	1.5	Common scab susceptible, good internal quality
MSW316-3PY	POR04PG6-3 x Colonial Purple	0.0	Very low specific gravity, light yellow flesh
MSX324-1P	MSN105-1 X Colonial Purple	0.9	Variable tuber shape and skin color, good internal quality
MSZ107-6PP	COMN07- W112BG1 x MSU200-5PP	0.5	Attractive smooth skin, almost all B-sized tubers
MSZ109-5RR	COMN07-W11BG1 X MSU200-5PP	0.5	Very small tuber size profile, all tubers less than 1 7/8 inches in diameter, small vine and late emergence
MSZ413-6P	Colonial Purple x MSU200-5PP	0.2	An even split of A and B sized tubers, moderate silver scurf

* Scab rating based on 0-5 scale; 0 = most resistant and 5 = most susceptible. Common scab data provided by Potato Outreach Program. Line descriptions provided by potato breeding programs and updated by Potato Outreach Program following evaluations at trial locations throughout Michigan.