

2022 Potato Outreach Program On-Farm Variety Trials

Data Summary: Michigan Chip Processing Trials

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2022 Michigan Statewide Chip Processing Potato Variety Trials Overall Averages - Thirteen Locations

LINE	CWT/A		PERCENT OF TOTAL ¹						RAW TUBER QUALITY ⁴ (%)						COMMON SCAB RATING ⁵	SED SCORE ⁶	VINE VIGOR ⁷	VINE MATURITY ⁸	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	OTF CHIP SCORE ³	HH	VD	IBS	BC						
MSAA252-7 ^{bdi}	711	744	96	4	88	8	0	1.072	1.2	3	20	30	0	1.0	0.5	3.3	3.3	moderate pink eye, medium netted skin, round type	
Manistee ^{ef}	711	744	95	4	95	0	1	1.086	1.0	0	0	0	0	0.3	0.5	1.8	2.5	uniform blocky round type, heavier netted skin	
NDAF14188-5 ⁹	613	637	96	4	93	3	0	1.076	1.0	20	0	0	0	1.0	0.0	5.0	3.0	flat type recessed stem ends	
NY174 ^{abcdehijlm}	580	620	93	6	93	0	1	1.086	1.1	1	8	8	0	0.3	0.6	3.8	2.8	flat round to oval type, light netted skin	
MSDD088-1 ^{hm}	564	624	90	9	90	0	1	1.071	1.0	0	18	0	0	0.4	0.7	2.5	3.0	flat round to oval type, light netted skin	
AF6565-8 ^m	558	610	92	8	91	1	0	1.082	1.0	0	0	0	0	0.5	0.6	2.2	3.0	uniform round type, light skin	
MSAA260-03 ^{abcdehijlm}	558	592	95	4	93	2	1	1.082	1.2	0	10	14	9	1.1	0.9	3.3	2.9	blocky type, deep apical eyes, moderate sheep nose	
W15125-4 ^{cdjm}	557	609	92	7	91	1	1	1.082	1.4	3	5	8	0	2.0	1.5	3.6	3.0	blocky round type, moderate sticky stolons	
NYS18-4 ^{kgm}	556	597	93	6	91	2	1	1.076	1.0	22	0	0	0	0.6	0.7	3.5	2.7	flattened round type, light netted skin	
TX12484-2WCZ ^l	551	607	90	4	88	2	6	1.079	1.0	10	20	0	10	0.5	1.3	4.5	2.0	prominent lenticels, flat blocky type, anthocyanin pigmentation	
W15NRY11-13 ^{abthijm}	532	613	86	12	86	0	2	1.075	1.0	1	13	4	0	1.3	0.6	3.5	3.1	attractive type, moderate growth cracks	
MSBB008-3 ^{abcdhilm}	520	577	91	8	91	0	1	1.083	1.1	1	9	8	1	0.9	0.6	2.9	2.8	light netted skin, oval type	
MSAA076-6 ^{abcdehijlm}	514	611	84	13	84	0	3	1.087	1.1	4	9	14	1	0.7	0.4	3.3	2.7	moderate growth crack, thin skin, deeper apical eyes	
AF6200-4 ^m	512	557	92	6	91	1	2	1.078	1.0	0	0	0	0	1.7	1.3	2.5	2.8	flat oval type, heavier netted skin	
MSCC009-1 ^{bdi}	510	567	89	8	89	0	3	1.074	1.2	3	20	30	0	0.3	0.4	3.5	2.8	severe growth crack, trace alligator hide	
NYT22-1 ^{cdfg}	507	593	84	14	83	1	2	1.079	1.4	5	13	0	3	0.9	0.6	3.4	1.9	round to oval type, trace growth crack, uniform type	
Lady Liberty ^{abcdehijlm}	507	576	87	12	87	0	1	1.076	1.1	1	14	5	0	0.9	0.6	3.4	2.7	small flat round type, medium netted skin, bright appearance	
AF6206-3 ^{agm}	507	538	94	5	92	2	1	1.085	1.2	1	0	0	0	0.6	0.8	3.4	2.9	round to oval type	
AF6552-2 ^{agm}	500	528	95	4	93	2	1	1.081	1.2	0	7	0	0	1.2	1.3	2.9	3.0	blocky round type, medium netted skin	
NYT7-5 ^{bfg}	494	594	82	18	82	0	0	1.073	1.0	0	10	0	0	0.3	0.4	2.5	2.5	small round type, flight alligator hide	
MSDD084-19 ^{abcdehijklm}	493	547	89	10	87	2	1	1.075	1.2	7	8	33	0	0.6	0.7	3.0	2.8	flat blocky oval type, moderate skinning	
MSDD553-01 ^{agh}	492	559	88	12	87	1	0	1.083	1.5	7	10	0	0	0.7	1.0	2.7	2.7	flat round type, thin skin	
Snowden^{acefghjkm}	490	560	86	13	86	0	1	1.088	1.1	7	13	1	0	1.9	0.7	3.3	2.7	uniform round type, medium netted skin	
MSBB626-11 ^{abcdel}	489	533	91	7	91	0	2	1.079	1.3	7	8	5	5	0.2	1.1	3.5	2.6	inconsistent appearance, thin skin	
MSDD372-07 ^{gm}	482	545	88	12	88	0	0	1.092	1.0	0	2	0	0	0.6	1.1	3.3	2.8	moderate black scurf, uniform type	
MSFF097-6 ^{hm}	478	533	90	9	89	1	1	1.082	1.4	3	10	0	0	0.4	0.9	3.1	2.7	smaller uniform round type	
MSDD249-9 ^{abcdfghlm}	474	510	93	7	92	1	0	1.078	1.2	0	6	0	0	0.7	0.8	3.5	2.6	flat blocky round type, medium netted skin	
NY175 ^{abcdehijlm}	468	547	84	15	84	0	1	1.077	1.2	0	3	2	0	0.8	0.8	3.5	2.6	round blocky type, light thin skin, bright appearance	
MSEE031-3 ^{aghim}	464	507	91	8	91	0	1	1.080	1.3	0	10	1	0	0.2	0.7	3.5	2.7	nice blocky appearance, thin skin	
Mackinaw ^{abcdehijklm}	464	504	91	8	90	1	1	1.085	1.2	0	9	0	1	0.5	0.6	2.8	2.9	flat round type, slight deep apical eyes	
MSAFB635-15 ^{abcdehijklm}	463	568	81	19	81	0	0	1.085	1.1	0	6	1	0	1.3	0.6	3.2	2.7	blocky round type, slight growth crack	
NYT3-3 ^{blm}	463	547	85	12	85	0	3	1.072	1.0	0	17	0	0	0.7	0.3	3.3	2.7	non uniform type, light netted skin	
MSBB636-11 ^{bcdehijlm}	463	507	91	7	89	2	2	1.073	1.0	6	11	0	0	0.6	0.3	1.7	2.5	slight alligator hide, blocky round type	
MSBB630-2 ^h	461	525	88	9	88	0	3	1.083	1.5	0	0	0	0	0.5	0.3	2.0	2.0	medium round tuber type, light netted skin, nice appearance	
MSBB610-13 ^{ghm}	458	481	95	4	93	2	1	1.079	1.0	0	0	0	0	0.4	0.6	2.3	2.3	flattened blocky round type	
NYT19-1 ^{fg}	456	528	86	13	85	1	1	1.078	1.0	0	5	0	0	0.5	0.4	3.3	2.3	blocky round type, trace skinning	
MSBB058-1 ^{acfhlm}	456	506	90	7	89	1	3	1.090	1.0	3	6	2	0	0.9	0.3	2.9	2.7	moderate growth crack, less uniform type	
MSW474-1 ^{acefghlm}	454	538	83	16	83	0	1	1.083	1.1	0	3	0	0	0.6	0.8	3.4	3.0	nice round type, consistent skin, trace pointed tubers	
B3296-3 ^{bd}	454	528	87	8	84	3	5	1.077	1.0	0	20	10	0	1.3	0.8	3.8	2.8	thin skin, sticky stolons, slight pinkeye	
CO13232-25W ^{afg}	450	516	86	13	85	1	1	1.075	1.0	3	7	0	0	0.2	0.8	3.7	2.5	flat round to oval type, light netted skin	
AF6603-5 ^{ghm}	448	501	89	10	89	0	1	1.083	1.5	8	17	0	7	1.4	0.7	2.4	2.7	deep apical eyes, slightly compressed shape	
MSZ242-13 ^{abcdehijklm}	445	481	92	6	88	4	2	1.092	1.2	3	4	2	0	0.5	0.6	2.8	2.4	medium netted skin, blocky round type	
CO12293-1W ^{abcdfghlm}	442	494	90	7	89	1	3	1.074	1.1	1	12	1	0	1.1	0.7	3.1	2.8	bright think skin, blocky round type	
NY168 ^{abcdehijklm}	436	504	86	12	82	4	2	1.086	1.1	4	6	2	2	1.1	0.9	2.8	3.0	flat round type, some purple pigmentation	
AF6555-2 ^{agm}	435	478	90	10	90	0	0	1.081	1.0	1	8	3	0	0.7	1.4	3.1	2.9	recessed stem ends, deeper apical eyes	
MSDD244-05 ^{efgh}	429	467	92	7	92	0	1	1.083	1.0	3	3	0	0	0.5	0.5	2.6	2.5	nice appearance, slight deep apical eyes	
AF6200-7 ^{agm}	429	452	95	4	92	3	1	1.091	1.3	0	4	7	0	0.2	0.8	3.3	2.4	blocky round type, deep apical ends	

LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ⁴ (%)							COMMON SCAB RATING ⁵	SED SCORE ⁶	VINE VIGOR ⁷	VINE MATURITY ⁸	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	OTF CHIP SCORE ³	HH	VD	IBS	BC						
AF6206-5 ^{agm}	427	517	82	9	82	0	9	1.094	1.0	0	0	0	0	1.3	0.7	3.2	2.7	severe growth crack, moderate alligator hide	
AF6601-2 ^{agm}	427	482	88	10	88	0	2	1.074	1.2	0	0	0	0	1.2	1.0	3.4	2.6	attractive round shape, light skin	
MSDD376-4 ^{hm}	422	467	91	8	90	1	1	1.084	1.3	0	10	0	0	0.4	0.6	2.9	2.7	flat round tuber type, medium to heavy netted skin	
NYR1-7 ^{abcddefghim}	420	489	85	14	85	0	1	1.080	1.0	3	10	6	0	1.0	0.6	3.6	2.8	nice appearance, light skin, round to oval type	
NYT11-3 ^{blim}	417	474	86	13	86	0	1	1.077	1.0	3	16	7	0	0.6	0.4	2.9	2.8	bright skin, slight skinning, oval to oblong type	
AF6567-4 ^{agm}	414	482	85	8	84	1	7	1.087	1.2	12	7	0	0	0.8	0.5	3.2	2.9	misshapen tubers, moderate growth crack	
B3317-1 ^{bd}	407	469	87	11	86	1	2	1.080	1.0	20	20	1	0	1.3	1.0	3.3	2.5	bright thin skin, nice appearance	
MSBB614-15 ^{ghm}	407	441	92	3	90	2	5	1.082	1.3	2	7	0	0	0.4	0.7	1.9	2.6	blocky oval type, heavy netted skin	
Atlantic^{bd}	405	466	87	9	86	1	4	1.082	1.3	57	20	7	0	0.5	1.0	3.5	3.0	non-uniform type, blocky flattened tubers	
AF6522-1 ^{agm}	402	535	75	24	75	0	1	1.075	1.0	0	3	3	1	1.5	1.0	3.3	2.2	flaky skin, trace sticky stolons	
AF5973-3 ^{agm}	396	441	89	10	88	1	1	1.085	1.2	13	2	3	0	0.6	0.7	3.1	2.6	bright thin skin, uniform blocky tubers	
AF6550-2 ^{agm}	395	462	84	9	84	0	7	1.081	1.2	7	2	0	0	0.9	0.9	3.5	2.6	moderate growth cracks, less uniform type	
NY163 ^{abcddefghijklm}	393	475	81	17	80	1	2	1.081	1.0	0	11	0	0	0.7	0.3	2.7	2.7	bright thin skin, round type, trace sticky stolons	
WAF16107-2 ^{agm}	386	423	91	7	90	1	2	1.078	1.2	1	1	3	0	0.6	0.4	3.2	2.4	inconsistent type, prominent eyes	
Petoskey ^{abcddefghim}	381	434	87	11	87	0	2	1.084	1.2	1	8	1	0	0.7	0.8	2.6	2.6	trace growth crack, moderate alligator hide, heavy skin	
Lamoka^{acefglm}	377	417	90	8	90	0	2	1.083	1.1	1	10	2	0	1.3	0.9	3.0	2.6	oval type, pointed tubers in pickouts	
MSAFB609-12 ^{abcdghijklm}	365	439	82	18	82	0	0	1.082	1.0	0	8	1	0	1.1	0.5	2.9	2.7	attractive uniform round tuber type, light netted skin	
MSBB614-11 ^E	363	401	91	9	91	0	0	1.071		0	0	0	0	1.0		2.5	3.0	small round med net unif	
AF6165-9 ^{agm}	354	427	82	16	82	0	2	1.086	1.0	26	3	0	0	1.2	0.9	3.2	2.8	flat round type, light netted skin	
AF5933-4 ^{agm}	339	404	82	17	82	0	1	1.082	1.3	0	0	0	0	0.9	1.3	3.4	2.4	nice round to oval type	
AC13126-1Wadg ^{afg}	338	376	89	8	88	1	3	1.077	1.2	10	7	0	0	1.0	1.1	2.8	2.3	heavier skin, inconsistent tuber type	
MSDD219-2 ^{abgcl}	333	394	84	11	84	0	5	1.073	1.7	2	4	2	0	0.4	1.0	3.0	2.7	attractive skin, less uniform type, trace pointed tubers	
MSDD089-2 ^{gh}	328	353	93	6	91	2	1	1.076	1.0	0	0	0	0	0.5	0.1	1.5	2.0	blocky type, medium netted skin	
AF6526-7 ^{ghm}	319	366	85	14	85	0	1	1.081	1.0	11	7	0	0	2.3	0.5	2.4	2.7	thin skin, flat oval type	
NYS37-2 ^{ghm}	308	345	90	9	90	0	1	1.083	1.0	0	0	2	0	0.7	0.7	2.6	2.3	flat round type, slight growth crack	
BNC816-7 ^{bd}	299	378	80	17	80	0	3	1.070	1.0	0	15	10	0	0.3	0.8	4.0	2.5	flattened round type	
TX12484-3WZC ^f	297	360	82	17	82	0	1	1.069	1.0	10	20	0	0	0.0	0.6	2.5	3.0	oval to oblong type, thin skin	
TX17846-1W ^{af}	212	349	62	35	62	0	3	1.071	1.0	0	0	0	0	0.0	0.6	4.0	2.5	small round type, thin skin	
NDTX1482YB-1W ^{af}	212	307	66	32	66	0	2	1.084	1.0	0	5	0	0	1.8	0.2	2.3	1.8	round type, thin skin, nice appearance	
COTX12235-2W ^f	198	353	56	44	56	0	0	1.074	1.0	0	10	0	0	1.0	1.0	2.5	2.0	small, unif, round	
NDTX14362AB-1W ^{af}	169	250	64	35	64	0	1	1.077	1.0	0	5	0	0	1.5	0.2	4.3	2.0	smaller round type, bright appearance	
AF6717-1 ^E	141	208	68	32	68	0	0	1.070	1.0	10	20	0	0	1.5	1.2	2.0	2.5	round type, light netted skin	
Sinatra ^h	132	308	43	53	43	0	4	1.089	1.0	0	0	0	0	1.5	0.1	3.5	3.5	flat oval to oblong tuber type, thin skin	
MEAN	433	495	86	12	85	1	2	1.080	1.1	4	8	3	0	0.8	0.7	3.1	2.6		

2022 Chip Variety Trial Sites

- ^a4-L Farms, Storage Trial
- ^bBlack Gold Farms, Fresh Trial
- ^cHampton Potato Growers, Storage Trial
- ^dLennard Ag. Co., Fresh Trial
- ^eLennard Ag. Co., Select Trial
- ^fLennard Ag. Co., Storage Trial
- ^gMain Farms, Storage Trial
- ^hMontcalm Research Center Box Bin Trial
- ⁱSandyland Farms SNAC Replicated Storage Trial
- ^jSandyland Farms, Set 1 Storage Trial
- ^kVerbrigghe Farms, Fresh Chip Trial
- ^lWalther Farms, Fresh Trial
- ^mWalther Farms, Replicated Storage Trial

¹SIZE

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

²SPECIFIC GRAVITY

Data not replicated

³OUT OF THE FIELD CHIP COLOR SCORE

- (SNAC Scale)
- Ratings: 1 - 5
- 1: Excellent
- 5: Poor

⁴RAW TUBER QUALITY

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

⁵COMMON SCAB RATING

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

⁶SED (STEM END DEFECT) SCORE

- 0: No stem end defect
- 1: Trace stem end defect
- 2: Slight stem end defect
- 3: Moderate stem end defect
- 4: Severe stem end defect
- 5: Extreme stem end defect

⁷VINE VIGOR RATING

- Date: Variable
- Rating 1-5
- 1: Slow emergence
- 5: Early emergence (vigorous vines, some flowering)

⁸VINE MATURITY RATING

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

2022 Storage Chip Processing Potato Variety Trial

4-L Farms

Planting: 5/24/22 Vine Kill: Harvest: 10/24/22

GDD₄₀:

LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ⁴ (%)							COMMON SCAB RATING ⁵	SED SCORE ⁶	VINE VIGOR ⁷	VINE MATURITY ⁸	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	OTF CHIP SCORE ³	HH	VD	IBS	BC						
NY174	733	760	96	3	96	0	1	1.087	1.5	0	0	0	0	0.0	0.9	5.0	3.0	light netted skin, flattened type	
NY168	690	756	91	5	87	4	4	1.086	1.0	0	0	0	0	0.5	0.9	4.0	3.0	slight aligator hide, growth crack in pickouts	
AF6206-3	642	671	96	3	93	3	1	1.087	1.5	0	0	0	0	0.0	0.8	5.0	3.0	round to oval type, darker skin	
NYS18-4	639	659	97	2	91	6	1	1.068	1.0	60	0	0	0	0.0	0.5	4.5	3.0	large flat type, round to oval shape	
W15NYR11-13	631	700	90	6	90	0	4	1.071	1.0	0	10	0	0	0.0	0.5	4.5	3.0	flaky skin, apical anthocyanin pigmentation, slight growth crack	
NDAF14188-5	613	637	96	4	93	3	0	1.076	1.0	20	0	0	0	1.0	0.9	5.0	3.0	flat type, recessed stem ends	
Snowden	583	627	93	5	93	0	2	1.084	1.0	10	0	10	0	2.5	0.8	5.0	2.5	variable shape, growth crack	
MSAA260-3	582	601	97	3	91	6	0	1.080	1.5	0	0	0	0	1.5	1.4	4.5	3.0	sheep nose, some compressed tubers, slight sticky stolons	
AF6567-4	578	653	88	5	84	4	7	1.080	1.5	20	0	0	0	0.0	0.3	5.0	3.0	many misshapen tubers, growth crack poor appearance, big	
MSDD084-19	570	616	93	6	89	4	1	1.073	1.0	0	0	0	0	0.0	0.5	4.5	3.0	flaky netted skin, slightly flattened type	
MSDD249-9	568	585	97	3	94	3	0	1.065	1.5	0	0	0	0	0.0	1.3	4.5	3.0	slight sticky stolons, round type	
Mackinaw	528	550	96	3	91	5	1	1.082	1.0	0	0	0	0	1.0	0.8	4.5	3.0	slight skin flaking, slight deep apical eyes	
MSZ242-13	519	567	92	2	88	4	6	1.094	1.5	20	0	0	0	0.5	0.4	4.5	3.0	moderate growth crack in pickouts	
AF6550-2	514	561	92	3	92	0	5	1.080	1.5	20	0	0	0	1.0	0.7	4.5	3.0	moderate growth crack in pickouts, thin skin	
AF6522-1	509	607	84	16	84	0	0	1.075	1.0	0	0	10	0	2.0	0.7	4.0	2.5	flaky skin, trace sticky stolons	
AF6206-5	500	644	78	4	77	1	18	1.094	1.0	0	0	0	0	1.0	0.7	4.5	3.0	severe growth crack mod ah	
AF6555-2	490	523	94	6	94	0	0	1.079	1.0	0	0	0	0	0.0	0.9	4.5	3.0	recessed stem end, nice shape	
Lady Liberty	486	531	91	8	90	1	1	1.074	1.0	0	0	0	0	0.0	0.7	5.0	3.0	thin bright skin	
MSW474-1	478	547	87	12	87	0	1	1.083	1.5	0	0	0	0	0.0	0.9	4.0	3.0	nice round type, deeper apical ends, flaky skin	
MSBB626-11	464	496	94	4	94	0	2	1.066	1.5	10	0	0	0	1.0	1.0	3.5	2.5	light netted skin, oval type	
AF5973-3	461	492	94	6	92	2	0	1.085	1.0	30	0	10	0	0.0	0.8	4.5	3.0	bright thin skin, blocky type	
AF6552-2	454	479	94	4	91	3	2	1.077	1.0	0	0	0	0	1.0	0.9	4.0	3.0	some misshapen tubers, nice appearance	
MSBB058-1	445	499	89	3	83	6	8	1.089	1.0	20	0	0	0	2.0	0.3	4.5	2.5	moderate growth crack and alligator hide, skinning	
AF6601-2	444	474	94	6	94	0	0	1.070	1.0	0	0	0	0	1.0	0.9	5.0	2.5	nice round shape, light skin	
AF6200-7	442	463	95	3	89	6	2	1.091	1.5	0	0	20	0	0.0	1.1	5.0	2.5	sheep nose, deep apical ends	
CO12293-1W	433	508	86	6	83	3	8	1.071	1.5	0	0	0	0	0.0	1.2	4.0	3.0	bright thin skin, many misshapen tubers	
MSBB008-3	433	458	95	3	93	2	2	1.073	1.5	40	0	0	0	1.0	1.2	4.5	2.0	light flaky skin, oval type	
MSAA076-6	424	488	87	10	87	0	3	1.090	1.0	0	0	0	0	1.0	0.5	4.5	3.0	slight growth crack, deeper apical eyes	
AF5933-4	424	459	92	7	92	0	1	1.077	1.5	0	0	0	0	0.0	1.0	4.5	2.5	nice round to oval type	
NY175	404	451	90	10	90	0	0	1.070	1.0	0	0	0	0	0.5	0.6	5.0	3.0	thin skin, deeper apical eyes	
WAF16107-2	397	447	89	6	87	2	5	1.071	1.5	0	0	10	0	0.0	0.4	5.0	2.5	inconsistent shape	
MSEE031-3	397	415	95	4	94	1	1	1.070	1.5	0	0	0	0	0.0	0.6	4.5	3.0	few potatoes have purple splashes around eyes	
Lamoka	391	409	96	3	96	0	1	1.074	1.5	0	10	0	0	1.0	0.9	4.5	3.0	oval type	
NYR1-7	385	435	88	12	88	0	0	1.074	1.0	0	0	0	0	0.0	0.5	4.5	3.0	slightly flattened type, nice appearance	
MSAFB635-15	371	438	85	15	84	1	0	1.081	1.0	0	0	0	0	0.0	0.4	4.5	2.5	trace sticky stolons	
MSAFB609-12	367	375	97	3	96	1	0	1.082	1.0	0	0	0	0	0.5	0.3	4.0	2.5	nice round type	
MSDD219-2	364	386	94	6	93	1	0	1.069	1.0	0	0	0	0	0.5	0.5	5.0	2.5	nice round type, netted skin	
NY163	363	399	91	9	91	0	0	1.078	1.0	0	0	0	0	0.5	0.5	4.0	3.0	bright thin skin, apical anthocyanin pigmentation	
CO13232-25W	362	443	81	17	79	2	2	1.067	1.0	0	0	0	0	0.0	0.5	5.0	3.0	bright smooth skin, misshapen pickouts	
AF6165-9	340	394	86	12	86	0	2	1.085	1.0	70	0	0	0	0.5	0.7	5.0	3.0	inconsistent shape	
Petoskey	325	360	90	7	87	3	3	1.081	1.5	10	0	0	0	0.5	1.2	5.0	2.5	trace growth crack, round type	
AC13126-1Wadg	314	352	89	8	88	1	3	1.076	1.0	10	0	0	0	1.5	0.8	4.5	2.5	inconsistent type, darker skin	
TX17846-1W	187	278	67	31	67	0	2	1.067	1.0	0	0	0	0	0.0	0.4	4.0	3.0	small, bright thin skin, attractive round type	
MSDD553-01								1.073	1.5	20	0	0	0	0.0	1.5	4.0	3.0	deeper apical ends, sheep nose, thin skin	
MEAN	471	516	91	7	89	2	2	1.078	1.2	8	0	1	0	0.5	0.7	4.5	2.8		

¹SIZE

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

²SPECIFIC GRAVITY

Data not replicated

³OUT OF THE FIELD CHIP COLOR SCORE

(SNAC Scale)

Ratings: 1 - 5
 1: Excellent
 5: Poor

⁴RAW TUBER QUALITY

(percent of tubers out of 10)

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

⁵COMMON SCAB RATING

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

⁶SED (STEM END DEFECT) SCORE

0: No stem end defect
 1: Trace stem end defect
 2: Slight stem end defect
 3: Moderate stem end defect
 4: Severe stem end defect
 5: Extreme stem end defect

⁷VINE VIGOR RATING

Date: 7/5/22
 Rating 1-5
 1: Slow emergence
 5: Early emergence (vigorous vines, some flowering)

⁸VINE MATURITY RATING

Date: 8/18/22
 Rating 1-5
 1: Early (vines completely dead)
 5: Late (vigorous vines, some flowering)

FIELD DATA

Planting date	5/24/22
Vine Kill Date	
Harvest Date	10/24/22
Days (planting to vine kill)	
Days (planting to harvest)	153
GDD ₄₀ MAWN Station	Kalamazoo
GDD ₄₀ (planting to vine kill)	
Seed Spacing	10"

2022 Fresh Chip Processing Potato Variety Trial

Black Gold Farms

Planting: 4/28/22 Vine Kill: N/A Harvest: 9/7/22

GDD₄₀: 3776

LINE	CWT/A		PERCENT OF TOTAL ¹						RAW TUBER QUALITY ⁴ (%)						COMMON SCAB RATING ⁵	SED SCORE ⁶	VINE VIGOR ⁷	VINE MATURITY ⁸	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	OTF CHIP SCORE ³	HH	VD	IBS	BC						
MSAA076-6	773	908	85	8	85	0	7	1.083	1.0	0	20	40	0	0.0	0.3	3.0	3.0	severe growth crack, less uniform type, poor appearance	
MSBB626-11	703	776	90	6	88	2	4	1.077	1.5	20	20	10	0	0.0	1.4	3.5	3.0	rough blocky round type, thin skin, moderate skinning	
MSAA252-7	675	715	95	5	89	6	0	1.066	1.0	0	20	60	0	1.5	1.0	3.0	3.0	poor appearance, large blocky type, moderate pink eye	
NY175	675	723	93	6	91	2	1	1.077	1.5	0	20	10	0	0.0	1.4	4.5	3.0	blocky round type	
NY163	659	781	84	5	83	1	11	1.080	1.0	0	20	0	0	0.0	0.3	3.0	3.0	thin skin, trace growth crack in pickouts	
W15NYR11-13	645	742	87	10	87	0	3	1.068	1.0	0	0	30	0	1.0	0.7	4.0	3.0	apical blushing, pinkeye, growth crack in pickouts	
Lady Liberty	634	706	90	10	90	0	0	1.074	1.0	10	20	20	0	1.0	0.6	4.0	3.0	trace sticky stolons, light netted skin, slight pinkeye	
MSAA260-03	619	650	95	5	94	1	0	1.074	1.0	0	0	0	40	0.5	0.6	3.5	3.0	nice appearance, moderate sheep nose	
CO12293-1W	608	654	93	5	92	1	2	1.069	1.0	0	20	0	0	0.0	0.4	3.0	3.0	bright general appearance, large blocky tuber type	
NY174	604	656	92	7	91	1	1	1.081	1.0	0	10	30	0	0.0	0.7	3.5	3.0	trace alligator hide, medium netted skin	
NYT3-3	583	694	84	11	84	0	5	1.074	1.0	0	0	0	0	0.5	0.3	4.0	3.0	non-uniform, purple apical pigmentation	
NYR1-7	553	622	89	11	88	1	0	1.081	1.0	0	0	50	0	1.0	0.8	4.0	3.0	flat round to oval tuber type, slight skinning	
MSCC009-1	551	601	92	6	92	0	2	1.076	1.0	10	20	40	0	0.5	0.5	3.0	3.0	severe growth crack stress reaction, trace blackleg	
MSDD249-9	538	568	95	4	94	1	1	1.076	1.0	0	0	0	0	0.5	1.2	3.5	3.0	large flat tuber type	
MSDD084-19	536	584	92	8	92	0	0	1.067	1.0	40	10	30	0	0.0	0.5	3.0	3.0	flattened oval type, moderate skinning	
Petoskey	498	537	93	4	93	0	3	1.090	1.5	0	10	0	0	0.5	1.1	2.0	3.0	moderate alligator hide, heavy netted skin, trace growth crack in pickouts	
NYT7-5	490	567	86	13	86	0	1	1.070	1.0	0	10	0	0	0.5	0.2	2.5	3.0	round tuber type, medium netted skin	
B3317-1	472	540	87	11	86	1	2	1.077	1.0	40	20	1	0	2.0	1.2	3.0	3.0	bright thin skin	
B3296-3	443	521	85	8	84	1	7	1.079	1.0	0	20	20	0	0.5	1.0	4.0	3.0	thin skin, sticky stolons, growth crack in pickouts	
MSZ242-13	411	446	92	6	91	1	2	1.083	1.0	0	20	0	0	0.5	0.9	2.5	3.0	large round blocky tuber type	
Mackinaw	401	446	90	8	90	0	2	1.077	1.0	0	20	0	10	0.0	0.7	3.0	3.0	flattened tuber type, slight skinning, sticky stolons	
MSAFB635-15	381	484	79	20	79	0	1	1.078	1.0	0	10	0	0	0.5	0.3	3.5	3.0	slight growth crack, heat stress, medium netted skin	
Atlantic	359	404	89	8	89	0	3	1.083	1.0	70	0	0	0	0.0	1.5	4.0	3.0	non-uniform tuber type	
MSBB008-3	346	390	89	11	89	0	0	1.064	1.0	10	20	0	20	0.5	0.7	3.0	3.0	less uniform type, light skin	
MSAFB609-12	329	387	85	14	85	0	1	1.078	1.0	0	10	10	0	0.0	0.5	3.0	3.0	round type, medium netted skin	
BNC816-7	326	417	78	19	78	0	3	1.072	1.0	0	20	20	0	0.0	0.8	4.0	3.0	flat round tuber type, medium netted skin	
NY168	299	360	83	15	83	0	2	1.079	1.0	20	20	10	0	0.0	0.7	3.5	3.0	very thin skin, non-uniform flat oval tuber type	
MSBB636-11	293	339	87	12	87	0	1	1.069	1.0	0	10	0	0	0.0	0.5	1.0	3.0	slight alligator hide, medium netted skin, trace sheep nose	
MSDD219-2	272	390	70	9	70	0	21	1.070	2.0	10	10	10	0	0.0	2.4	3.0	3.0	pointed tubers, non-uniform type, trace alligator hide	
NYT11-3	189	237	80	20	80	0	0	1.072	1.0	10	0	0	0	0.0	0.6	3.0	3.0	small uniform round type, light skin, slight skinning	
MEAN	495	562	88	10	87	1	3	1.075	1.1	8	13	13	2	0.4	0.8	3.3	3.0		

¹SIZE

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

²SPECIFIC GRAVITY

Data not replicated

³OUT OF THE FIELD CHIP COLOR SCORE

(SNAC Scale)
Ratings: 1 - 5
1: Excellent
5: Poor

⁴RAW TUBER QUALITY

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

⁵COMMON SCAB RATING

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

⁶SED (STEM END DEFECT) SCORE

0: No stem end defect
1: Trace stem end defect
2: Slight stem end defect
3: Moderate stem end defect
4: Severe stem end defect
5: Extreme stem end defect

⁷VINE VIGOR RATING

Date: 6/10/22
Rating 1-5
1: Slow emergence
5: Early emergence (vigorous vines, some flowering)

⁸VINE MATURITY RATING

Date: 8/16/22
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

FIELD DATA

Planting date 4/28/22
Vine Kill Date N/A
Harvest Date 9/7/22
Days (planting to vine kill) N/A
Days (planting to harvest) 132
GDD₄₀ MAWN Station Mendon
GDD₄₀ (planting to vine kill) 3776
Seed Spacing 10"

2022 Storage Chip Processing Potato Variety Trial

Hampton Storage Chip

Planting: 5/9/22 Vine Kill: 9/1/22 Harvest: 10/13/22
GDD₄₀: 3287

LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ⁴ (%)						COMMON SCAB RATING ⁵	SED SCORE ⁶	VINE VIGOR ⁷	VINE MATURITY ⁸	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	OTF CHIP SCORE ³	HH	VD	IBS	BC					
MSDD084-19	580	635	91	9	91	0	0	1.083	1.0	0	0	0	0	2.0	1.8	3.0	3.0	flat round tuber type
W15125-4	535	626	85	14	85	0	1	1.088	1.5	0	0	0	0	3.5	1.2	4.5	2.5	blocky round type
MCAA076-6	519	590	88	12	88	0	0	1.089	1.5	0	0	30	0	1.0	0.1	4.0	2.0	blocky round type, sheep nose
MSAFB609-12	463	543	85	15	85	0	0	1.083	1.0	0	0	0	0	2.0	0.0	3.0	2.5	flat round type
MSW474-1	453	569	80	20	80	0	0	1.090	1.0	0	0	0	0	1.0	0.4	4.0	3.0	uniform round type
Lady Liberty	448	579	77	22	77	0	1	1.075	1.0	0	20	0	0	2.0	0.0	3.5	2.0	
NY174	407	459	89	11	89	0	0	1.081	1.0	0	0	0	0	2.0	0.4	4.5	2.0	flat round type
NY168	399	466	86	14	86	0	0	1.088	1.0	0	0	0	0	2.5	2.1	3.0	2.5	uniform round type
MSZ242-13	362	396	91	9	90	1	0	1.096	0	0	0	0	0	1.0	0.0	2.5	2.0	uniform round type
CO12293-1W	358	388	92	7	92	0	1	1.079	1.0	0	10	0	0	1.5	0.2	3.0	2.5	blocky round type
MSBB058-1	357	426	84	16	84	0	0	1.092	1.0	0	0	0	0	2.0	0.0	2.5	2.5	deeper apical eyes
NY163	350	418	84	16	84	0	0	1.080	1.0	0	20	0	0	1.5	0.0	3.0	2.0	bright, thin skin, smaller round type
Snowden	344	417	83	17	83	0	0	1.088	1.0	0	30	0	0	2.0	0.4	3.5	2.5	uniform round type
MSBB636-11	341	365	93	7	93	0	0	1.067	1.0	0	10	0	0	0.5	0.0	2.0	2.5	blocky round type
NYT22-1	339	448	76	24	76	0	0	1.081	1.0	0	0	0	0	2.5	0.2	4.0	1.0	round to oval type
MSAA260-03	330	357	93	6	93	0	1	1.081	1.5	0	0	20	10	1.5	1.4	2.5	3.0	blocky round type, sheep nose
MSBB008-3	314	375	84	15	84	0	1	1.080	1.0	0	0	0	0	1.5	0.3	3.0	1.0	blocky oval type
Mackinaw	311	332	94	6	94	0	0	1.088	1.5	0	20	0	0	0.5	0.9	3.0	3.0	flat round type
MSAFB635-15	309	448	69	31	69	0	0	1.083	1.0	0	0	0	0	2.0	0.0	4.0	2.0	small uniform round type
MSBB626-11	298	341	87	13	87	0	0	1.087	1.5	10	0	0	0	0.0	1.6	4.5	1.5	rough, deeper eyes, round blocky type
NY175	295	437	67	33	67	0	0	1.085	1.5	0	0	0	0	2.0	0.6	4.5	1.5	small round type
Petoskey	291	345	84	15	84	0	1	1.081	1.0	0	10	0	0	2.0	0.3	2.5	2.0	uniform round type
MSDD249-9	288	339	85	15	83	2	0	1.090	1.0	0	0	0	0	2.5	0.1	4.0	1.5	flat blocky round type
MSDD219-2	275	313	88	12	88	0	0	1.074	1.5	0	0	0	0	0.5	0.3	2.5	2.0	flat oval type, thin skin
NYR1-7	250	355	71	29	71	0	0	1.081	1.0	0	0	0	0	2.5	0.7	4.0	2.0	small uniform round type
Lamoka	226	265	85	14	85	0	1	1.094	1.0	10	20	0	0	1.5	0.7	2.5	1.5	flat oval type, thin skin
NDTX1482YB-1W	119	239	50	50	50	0	0	1.081	1.0	0	0	0	0	3.0	0.0	2.5	1.5	round type, bright appearance
NDTX14362AB-1W	90	171	53	47	53	0	0	1.069	1.0	0	0	0	0	2.5	0.1	4.5	2.0	small round type, bright appearance
MEAN	345	416	82	18	82	0	0	1.083	1.1	1	5	2	0	1.8	0.5	3.4	2.1	

¹**SIZE**

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

²**SPECIFIC GRAVITY**

Data not replicated

³**OUT OF THE FIELD CHIP COLOR SCORE**

(SNAC Scale)
Ratings: 1 - 5
1: Excellent
5: Poor

⁴**RAW TUBER QUALITY**

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

⁵**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

⁶**SED (STEM END DEFECT) SCORE**

0: No stem end defect
1: Trace stem end defect
2: Slight stem end defect
3: Moderate stem end defect
4: Severe stem end defect
5: Extreme stem end defect

⁷**VINE VIGOR RATING**

Date: 6/14/22
Rating 1-5
1: Slow emergence
5: Early emergence (vigorous vines, some flowering)

⁸**VINE MATURITY RATING**

Date: 8/17/22
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

FIELD DATA

Planting date 5/9/22
Vine Kill Date 9/1/22
Harvest Date 10/13/22
Days (planting to vine kill) 115
Days (planting to harvest) 157
GDD₄₀ MAWN Station Munger
GDD₄₀ (planting to vine kill) 3287
Seed Spacing 10"

2022 Fresh Chip Processing Potato Variety Trial

Lennard Ag. Co.

Planting: 4/30/22 Vine Kill: N/A Harvest: 9/7/22
GDD₄₀: 3796

LINE	CWT/A		PERCENT OF TOTAL ¹						RAW TUBER QUALITY ⁴ (%)						COMMON SCAB RATING ⁵	SED SCORE ⁶	VINE VIGOR ⁷	VINE MATURITY ⁸	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	OTF CHIP SCORE ³	HH	VD	IBS	BC						
NYT22-1	762	838	91	7	88	3	2	1.080	1.0	10	20	0	10	0.0	0.1	3.5	2.0	bright thin skin, uniform round tuber type	
MSAA252-7	755	791	95	5	83	12	0	1.077	1.0	10	20	30	0	1.0	0.5	3.5	3.0	sticky stolons, blocky round tuber type, medium netted skin, moderate skinning	
MSAA260-03	704	745	95	3	90	5	2	1.082	1.0	0	0	100	0	1.0	0.6	4.0	2.0	blocke round tuber type, medium netted skin	
NY174	694	742	94	5	94	0	1	1.086	1.0	0	20	0	0	0.0	0.1	4.5	2.5	flat round tuber type, medium netted skin	
NY168	673	746	90	9	89	1	1	1.087	1.0	0	0	0	0	1.0	0.3	3.0	2.0	flat round tuber type, medium netted skin	
MSZ242-13	632	675	94	4	88	6	2	1.091	1.0	0	0	0	0	0.0	0.1	3.5	2.0	blocky tuber type, medium netted skin, trace sticky stolons	
W15125-4	631	667	95	5	93	2	0	1.081	1.0	0	20	30	0	0.5	1.1	4.0	2.5	moderate sticky stolons, uniform blocky round tuber type	
MSBB636-11	594	633	94	6	93	1	0	1.074	1.0	40	10	0	0	1.0	0.4	2.0	2.0	uniform round blocky tuber type, medium netted skin	
MSAA076-6	589	698	84	14	84	0	2	1.087	1.0	0	0	30	0	0.5	0.2	4.0	2.0	non uniform tuber type, moderate skinning	
MSAFB635-15	568	688	83	17	83	0	0	1.086	1.0	0	20	0	0	1.5	0.3	3.0	2.0	uniform round tuber type, medium netted skin	
MSCC009-1	549	608	90	6	89	1	4	1.077	1.0	0	10	30	0	0.5	0.6	3.5	2.5	severe growth cracking, medium netted skin, round blocky tuber type	
MSBB008-3	534	585	91	7	91	0	2	1.074	1.0	10	20	0	0	1.0	0.5	3.0	2.5	flat blocky oval tuber type, light netted skin	
Atlantic	503	586	86	6	82	4	8	1.085	1.0	90	20	10	0	1.0	0.9	3.0	2.0	non-uniform, blocky flattened oval type	
MSDD249-9	483	524	92	8	92	0	0	1.074	1.0	0	0	0	0	0.5	0.3	4.5	2.0	flat round tuber type, light netted skin, trace of black leg	
NY163	472	580	81	15	76	5	4	1.078	1.0	0	10	0	0	0.0	0.1	3.5	2.0	purple apical blushing, oval to oblong tuber type, light netted skin	
B3296-3	466	535	87	10	83	4	3	1.074	1.0	0	20	0	0	2.0	0.5	3.5	2.5	blocky tuber type, light netted skin, slight pinkeye	
NY175	430	538	80	17	80	0	3	1.070	1.0	0	10	0	0	0.0	1.0	3.5	2.5	non-uniform tuber type	
CO12293-1W	426	508	84	12	84	0	4	1.071	1.0	0	10	0	0	1.5	0.1	3.5	2.5	oblong blocky tuber type, thin skin	
Petoskey	425	541	78	18	78	0	4	1.083	1.0	0	0	10	0	0.5	0.7	2.5	2.5	trace of growth crack	
MSDD084-19	412	476	87	11	87	0	2	1.071	1.0	0	20	90	0	0.5	0.3	3.5	2.0	slight shatter bruising, flat blocky oval tuber type, medium netted skin	
Lady Liberty	399	470	85	15	85	0	0	1.074	1.0	0	20	20	0	0.0	0.3	5.0	2.0	flat round tuber type	
NYT3-3	368	428	86	12	86	0	2	1.072	1.0	0	20	0	0	0.5	0.3	3.0	2.5	round tuber type, light netted skin	
MSAFB609-12	361	445	81	17	81	0	2	1.082	1.0	0	10	0	0	0.0	0.2	4.0	2.5	small uniform round tuber type, light netted skin	
NYR1-7	351	454	77	21	77	0	2	1.072	1.0	10	20	0	0	1.5	0.2	4.0	2.0	non-uniform tuber type, flat oval to oblong type	
MSBB626-11	351	409	86	12	86	0	2	1.077	1.0	0	0	0	0	0.0	0.4	4.0	2.5	medium netted skin, moderate skinning, blocky round tuber type	
B3317-1	343	399	86	13	86	0	1	1.083	1.0	0	20	0	0	0.5	0.7	3.5	2.0	thin bright skin	
BNC816-7	273	338	81	17	81	0	2	1.069	1.0	0	10	0	0	0.5	0.8	4.0	2.0	small round flattened tuber type	
Mackinaw	256	285	90	8	90	0	2	1.085	1.0	0	0	0	0	0.5	0.4	2.5	2.0	small flat round tuber type	
MEAN	500	569	87	11	86	2	2	1.079	1.0	6	12	13	0	0.6	0.4	3.5	2.2		

¹SIZE

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

²SPECIFIC GRAVITY

Data not replicated

³OUT OF THE FIELD CHIP COLOR SCORE

(SNAC Scale)
Ratings: 1 - 5
1: Excellent
5: Poor

⁴RAW TUBER QUALITY

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

⁵COMMON SCAB RATING

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

⁶SED (STEM END DEFECT) SCORE

0: No stem end defect
1: Trace stem end defect
2: Slight stem end defect
3: Moderate stem end defect
4: Severe stem end defect
5: Extreme stem end defect

⁷VINE VIGOR RATING

Date: 6/10/22
Rating 1-5
1: Slow emergence
5: Early emergence (vigorous vines, some flowering)

⁸VINE MATURITY RATING

Date: 8/18/22
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

FIELD DATA

Planting date: 4/30/22
Vine Kill Date: N/A
Harvest Date: 9/7/21
Days (planting to vine kill): N/A
Days (planting to harvest): 130
GDD₄₀ MAWN Station: Constantine
GDD₄₀ (planting to vine kill): 3796
Seed Spacing: 10"

2022 Select Storage Chip Processing Potato Variety Trial

Lennard Ag. Co.

Planting: 5/17/22 Vine Kill: 9/24/22 Harvest: 9/29/22
GDD₄₀: 3844

LINE	CWT/A		PERCENT OF TOTAL ¹							RAW TUBER QUALITY ⁴ (%)					COMMON SCAB RATING ⁵	SED SCORE ⁶	VINE VIGOR ⁷	VINE MATURITY ⁸	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	OTF CHIP SCORE ³	HH	VD	IBS	BC						
MSAFB635-15	819	977	84	15	84	0	1	1.083	1.0	0	0	0	0	1.5	0.9	2.0	3.0	flat round type	
Snowden	793	829	96	4	96	0	0	1.089	1.0	0	20	0	0	1.0	0.7	2.0	3.0		
Manistee	698	725	96	3	96	0	1	1.088	1.0	0	0	0	0	0.5	0.5	1.0	3.0	uniform blocky round type	
NY174	690	722	96	3	96	0	1	1.093	1.0	0	0	30	0	0.5	0.4	2.5	3.0	flat round type, acceptable appearance	
MSBB626-11	686	712	96	4	96	0	0	1.090	1.5	0	0	20	30	0.0	1.4	2.5	3.0	light netted skin, round type	
Mackinaw	648	668	97	3	97	0	0	1.087	1.0	0	0	0	0	0.5	0.2	1.0	3.0	blocky round type, slight deeper apical eyes	
MSW474-1	623	705	88	10	87	1	2	1.082	1.0	0	0	0	0	1.0	0.5	2.5	3.0	uniform round type, points and knobs	
MSAA260-03	581	622	94	3	93	1	3	1.084	1.0	0	0	0	20	1.5	0.8	1.5	3.0	growth crack, deep apical eyes, blocky round type	
NY168	577	632	92	3	91	1	5	1.091	1.0	0	0	0	0	1.5	0.4	2.0	3.0	flat oval type, light to medium netted skin, sunburn	
NY175	561	639	88	12	88	0	0	1.081	1.0	0	0	0	0	0.5	0.5	2.0	2.5	flat blocky round type, light netted skin	
MSBB636-11	549	579	95	3	95	0	2	1.072	1.0	0	0	0	0	1.0	0.1	1.0	2.5	blocky round type, sheep nose	
MSZ242-13	525	541	97	3	93	4	0	1.096	1.0	0	0	20	0	0.5	0.7	1.5	2.5	blocky round type	
Lamoka	483	516	94	4	94	0	2	1.089	1.5	0	0	0	0	1.5	1.1	1.5	3.0	pointed tubers	
Lady Liberty	478	507	94	5	94	0	1	1.084	1.0	0	0	0	0	1.0	0.9	1.0	3.0	small round type, light netted skin	
NYR1-7	473	562	84	14	84	0	2	1.084	1.0	0	0	0	0	1.0	0.9	2.5	3.0	flat round to oval type	
MSAA076-6	461	553	84	12	84	0	4	1.090	1.0	0	0	0	0	1.0	0.4	2.0	3.0	deeper apical eyes, points and growth crack, poor appearance	
MSDD084-19	455	486	94	4	94	0	2	1.081	1.5	0	0	30	0	1.0	0.6	2.0	2.5	flat round to oval type	
MSDD244-05	386	428	90	10	90	0	0	1.081	1.0	0	0	0	0	0.5	0.5	2.0	2.5	flat round type, medium netted skin, nice appearance	
Petoskey	242	291	83	15	83	0	2	1.082	1.0	0	0	0	0	0.5	1.2	1.5	2.5	light to medium netted skin	
NY163	190	260	73	26	73	0	1	1.090	1.0	0	0	0	0	0.5	0.6	2.0	2.5	oval type, light netted skin	
MEAN	546	598	91	8	90	0	1	1.086	1.1	0	1	5	3	0.9	0.7	1.8	2.8		

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²SPECIFIC GRAVITY
Data not replicated

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(SNAC Scale)
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⁷VINE VIGOR RATING

Date: 6/10/22
Rating 1-5
1: Slow emergence
5: Early emergence (vigorous vines, some flowering)

⁸VINE MATURITY RATING
Date: 8/18/22
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

FIELD DATA
Planting date: 5/17/22
Vine Kill Date: 9/24/22
Harvest Date: 9/29/22
Days (planting to vine kill): 130
Days (planting to harvest): 135
GDD₄₀ MAWN Station: Constantine
GDD₄₀ (planting to vine kill): 3844
Seed Spacing: 10"

2022 Storage Chip Processing Potato Variety Trial

Lennard Ag. Co.

Planting: 4/27/22 Vine Kill: 8/22/22 Harvest: 9/16/22

GDD₄₀: 3357

LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ⁴ (%)							COMMON SCAB RATING ⁵	SED SCORE ⁶	VINE VIGOR ⁷	VINE MATURITY ⁸	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	OTF CHIP SCORE ³	HH	VD	IBS	BC						
Manistee	724	763	95	4	95	0	1	1.083	1.0	0	0	0	0	0.0	0.5	2.5	2.0	heavy netted skin, deeper eyes	
W15NYR11-13	715	784	91	5	91	0	4	1.081	1.0	0	10	0	0	0.5	0.7	3.5	3.5	nice, blocky round to oval, apical anthocyanin pigmentation	
MSDD084-19	708	755	93	6	91	2	1	1.075	1.0	0	0	80	0	1.0	0.9	3.5	3.0	flat round to oval type, medium netted skin, slight skicky stolons	
MSAA076-6	672	795	84	13	84	0	3	1.090	1.0	0	10	20	0	1.0	0.6	3.0	3.0	flat round to oval type, light skin, deeper eyes	
MSBB008-3	660	701	94	4	94	0	2	1.079	1.0	10	20	0	0	1.0	0.8	2.5	2.0	trace skinning, medium netted skin	
NYT7-5	655	760	86	14	86	0	0	1.077	1.0	0	20	0	0	0.0	0.4	2.5	2.0	small round type, flaky skin, deeper eyes	
CO13232-25W	636	693	92	7	92	0	1	1.078	1.0	0	0	0	0	0.0	0.8	3.5	2.0	flat round to oval type, light thin skin	
MSW474-1	630	678	93	7	93	0	0	1.083	1.0	0	0	0	0	0.5	1.2	4.0	2.5	medium to heavy netted skin, round blocky type, slight sticky stolons	
NYT22-1	627	693	90	6	89	1	4	1.077	1.5	10	30	0	0	0.5	1.1	3.5	2.5	flat round to oval type, bacterial breakdown, misshapen pickouts	
MSAA260-03	626	669	94	6	94	0	0	1.083	1.0	0	30	10	0	1.5	1.2	3.5	3.0	blocky round type, medium netted skin	
Snowden	621	688	90	7	90	0	3	1.089	1.0	0	20	0	0	1.5	0.9	3.0	2.5		
NY175	609	651	94	5	92	2	1	1.081	1.0	0	0	10	0	0.0	1.1	3.5	2.5	medium netted skin, round blocky type	
MSDD249-9	599	646	93	7	93	0	0	1.083	1.5	0	20	0	0	0.5	1.3	3.5	2.0	flat oval type, light netted skin	
NYT19-1	577	639	90	8	89	1	2	1.081	1.0	0	10	0	0	0.5	0.5	3.5	2.0	blocky round to oval type, light skin, trace skinning	
NY174	573	609	94	6	94	0	0	1.090	1.0	0	0	0	0	0.0	0.9	4.0	2.5	flat blocky round to oval type, light netted skin	
MSAFB635-15	572	632	91	7	91	0	2	1.089	1.0	0	0	0	0	1.0	0.7	3.5	2.0	blocky round type, deep apical eyes	
NY163	566	649	87	5	87	0	8	1.086	1.0	0	10	0	0	0.0	0.5	3.0	2.0	misshapen, light skin, slight skinning, sticky stolons, flat oval type	
TX12484-2WCZ	551	607	90	4	88	2	6	1.079	1.0	10	20	0	10	0.5	1.3	4.5	2.0	prominent lenticels, flat blocky type, anthocyanin blush skin	
CO12293-1W	549	624	88	8	88	0	4	1.077	1.0	10	20	10	0	1.5	0.9	3.0	2.5	light netted skin, long oval type, trace bacterial breakdown	
Mackinaw	547	590	93	6	93	0	1	1.091	1.0	0	10	0	0	0.0	0.6	3.5	3.0	flat round to oval type, med netted skin	
MSDD244-05	498	539	92	6	92	0	2	1.080	1.0	10	0	0	0	0.0	0.8	3.5	2.5	heavy netted skin, uniform round type	
Lady Liberty	494	594	83	16	83	0	1	1.077	1.0	0	0	0	0	0.5	0.8	3.5	3.0	medium round tuber type, medium netted skin	
MSBB610-13	478	491	97	3	96	1	0	1.077	1.0	0	0	0	0	0.5	0.7	3.5	2.5	flattened round to oval type, moderate skinning	
MSBB058-1	477	532	90	4	90	0	6	1.088	1.0	0	10	10	0	0.0	0.3	3.0	3.0	flat round type, med netted skin, growth crack	
AC13126-1Wadg	473	516	92	4	92	0	4	1.079	1.0	0	0	0	0	0.5	0.6	3.0	2.5	heavy netted skin, round blocky type	
MSZ242-13	461	511	91	5	89	2	4	1.093	1.0	10	0	0	0	0.0	0.4	2.5	2.0	blocky round to oval type, medium netted skin, less uniform type	
MSBB636-11	454	502	90	9	89	1	1	1.078	1.0	0	0	0	0	0.5	0.3	2.0	2.0	uniform type, medium netted skin	
MSAFB609-12	453	522	87	13	87	0	0	1.086	1.0	0	0	0	0	0.5	0.5	2.5	3.0	uniform round to oval type, light netted skin	
NY168	417	481	87	10	87	0	3	1.084	1.0	30	0	0	20	0.5	0.8	3.0	3.0	flat round to oval type, slight bacterial breakdown	
Petoskey	392	445	88	11	88	0	1	1.086	1.0	0	20	0	0	0.5	0.8	3.0	3.0	medium netted skin	
NYR1-7	390	433	90	10	90	0	0	1.077	1.0	0	20	0	0	0.5	0.7	3.5	2.5	round to oval type	
Lamoka	331	379	87	9	87	0	4	1.079	1.0	0	10	10	0	1.0	1.0	3.5	2.0	light skin, longer oval type	
NDTX1482YB-1W	305	374	81	15	81	0	4	1.087	1.0	0	10	0	0	0.5	0.4	2.0	2.0	thin skin, flat oval type	
TX12484-3WZC	297	360	82	17	82	0	1	1.069	1.0	10	20	0	0	0.0	0.6	2.5	3.0	oval to oblong type, thin skin	
NDTX14362AB-1W	248	330	75	23	75	0	2	1.084	1.0	0	10	0	0	0.5	0.3	4.0	2.0	smaller round blocky type, light netted skin	
TX17846-1W	238	419	57	40	57	0	3	1.075	1.0	0	0	0	0	0.0	0.8	4.0	2.0	small, flat round to oval tuber type, thin skin	
COTX12235-2W	198	353	56	44	56	0	0	1.074	1.0	0	10	0	0	1.0	1.0	2.5	2.0	small uniform round type	
MEAN	514	579	88	10	87	0	2	1.082	1.0	3	9	4	1	0.5	0.8	3.2	2.4		

¹**SIZE**

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

²**SPECIFIC GRAVITY**

Data not replicated

³**OUT OF THE FIELD CHIP COLOR SCORE**

(SNAC Scale)

Ratings: 1 - 5

1: Excellent

5: Poor

⁴**RAW TUBER QUALITY**

(percent of tubers out of 10)

HH: Hollow Heart

VD: Vascular Discoloration

IBS: Internal Brown Spot

BC: Brown Center

⁵**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

⁶**SED (STEM END DEFECT) SCORE**

0: No stem end defect

1: Trace stem end defect

2: Slight stem end defect

3: Moderate stem end defect

4: Severe stem end defect

5: Extreme stem end defect

⁷**VINE VIGOR RATING**

Date: 6/10/22

Rating 1-5

1: Slow emergence

5: Early emergence (vigorous vines, some flowering)

⁸**VINE MATURITY RATING**

Date: 8/18/22

Rating 1-5

1: Early (vines completely dead)

5: Late (vigorous vines, some flowering)

FIELD DATA

Planting date

4/27/22

Vine Kill Date

8/22/22

Harvest Date

9/16/22

Days (planting to vine kill)

117

Days (planting to harvest)

142

GDD₄₀ MAWN Station

Constantine

GDD₄₀ (planting to vine kill)

3357

Seed Spacing

10"

2022 Storage Chip Processing Potato Variety Trial

Main Farms

Planting: 5/19/22 Vine Kill: 9/8/22 Harvest: 10/21/22

GDD₄₀: 3103

LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ⁴ (%)							COMMON SCAB RATING ⁵	SED SCORE ⁶	VINE VIGOR ⁷	VINE MATURITY ⁸	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	OTF CHIP SCORE ³	HH	VD	IBS	BC						
MSDD553-01	626	684	92	8	92	0	0	1.084	2.0	0	20	0	0	1.5	1.0	2.0	3.0	flat blocky round type	
Mackinaw	574	630	91	9	91	0	0	1.087	1.0	0	0	0	0	0.5	0.3	2.5	3.0	flat round type, light to medium netted skin, non uniform type	
Lady Liberty	541	605	89	10	89	0	1	1.080	1.0	0	20	0	0	2.0	0.6	3.0	2.5	medium netted skin, flat round type	
MSAA260-03	537	571	94	6	93	1	0	1.089	1.0	0	10	0	0	0.5	1.1	3.5	3.0	deeper apical eye, blocky round type, light skin type	
NY174	530	570	93	7	93	0	0	1.085	1.0	0	10	20	0	0.0	1.4	3.5	2.5	flattened round type	
AF6552-2	507	537	94	6	93	1	0	1.083	1.5	0	20	0	0	1.0	1.5	2.0	3.0	blocky round type, medium netted skin	
MSBB636-11	507	547	93	7	92	1	0	1.078	1.0	10	0	0	0	0.5	0.3	3.0	2.5	blocky round type, light netted skin	
MSDD372-07	495	561	88	12	88	0	0	1.095	1.0	0	0	0	0	0.5	1.3	3.5	2.5	moderate black scurf, uniform round type, medium netted skin	
MSAFB609-12	491	571	86	14	86	0	0	1.087	1.0	0	20	0	0	0.5	0.9	2.0	2.0	smaller, flat round uniform type	
MSDD084-19	487	553	88	11	88	0	1	1.079	1.0	0	0	20	0	0.5	0.5	2.5	3.0	flat round type, medium netted skin	
MSBB614-15	472	492	95	5	94	1	0	1.083	1.5	0	0	0	0	0.5	1.5	1.0	2.5	slight alligator hide, cracking, blocky round to oval type, heavy netted skin	
MSDD244-05	464	511	91	7	91	0	2	1.083	1.0	0	10	0	0	0.5	0.5	2.5	2.5	uniform flat round type, heavy netted skin, slight deep apical eyes	
NYS18-4	462	519	89	11	89	0	0	1.083	1.0	0	0	0	0	0.5	0.8	3.0	2.0	small round uniform type, light netted skin	
MSAFB635-15	433	552	78	22	78	0	0	1.086	1.5	0	0	0	0	1.5	1.6	2.0	2.5	uniform round type, heavy netted skin, slight alligator hide	
NYR1-7	420	498	84	16	84	0	0	1.081	1.0	0	0	0	0	0.5	1.0	3.5	3.0	flattened round to oval type, medium netted skin	
AF6603-5	415	494	84	14	84	0	2	1.082	2.0	20	20	0	20	0.5	1.0	2.5	3.0	black scurf, deep apical eyes, compressed type	
Snowden	414	501	83	17	83	0	0	1.091	1.5	0	0	0	0	0.5	1.4	3.0	2.5	medium to heavy netted skin, small round uniform type	
NY175	391	512	76	23	76	0	1	1.080	1.5	0	0	0	0	1.5	0.8	3.0	2.5	trace soft rot, smaller round type, light skin type	
CO12293-1W	389	429	91	7	91	0	2	1.081	1.0	0	0	0	0	1.5	1.4	3.0	3.0	light netted skin, flat round blocky type	
MSDD219-2	388	442	88	12	88	0	0	1.079	2.0	0	0	0	0	1.0	1.0	2.0	2.0	flat round to oval type, medium netted skin	
Petoskey	374	417	90	10	90	0	0	1.086	1.0	0	10	0	0	0.5	0.5	3.0	2.5	flat round type, medium netted skin	
MSEE031-3	366	406	90	10	90	0	0	1.082	1.0	0	20	0	0	0.0	0.9	3.5	2.5	few potatoes have purple splash around eyes, flat round type	
MSBB614-11	363	401	91	9	91	0	0	1.071	1.0	0	0	0	0	1.0	0.9	2.5	3.0	small round type	
MSW474-1	360	470	77	22	77	0	1	1.083	1.0	0	0	0	0	0.5	1.1	3.0	2.5	small round type, moderate sticky stolons, consistent skin	
AF6200-7	359	388	92	8	90	2	0	1.090	1.0	0	10	0	0	0.5	0.4	2.5	2.0	blocky round to oval type, medium to heavy netted skin	
MSDD249-9	359	389	92	8	92	0	0	1.087	1.0	0	0	0	0	1.0	0.9	2.0	3.0	flat round type, medium netted skin	
CO13232-25W	350	414	85	15	85	0	0	1.078	1.0	10	20	0	0	0.5	1.1	2.5	2.5	less uniform type, slightly flattened tubers, light netted skin	
AF6522-1	348	511	68	30	68	0	2	1.077	1.0	0	10	0	0	1.0	1.0	3.0	1.5	medium netted skin, flat round type	
WAF16107-2	341	374	91	8	91	0	1	1.084	1.0	0	0	0	0	1.0	0.3	2.5	2.5	inconsistent type and skin, prominent eyes	
NYS37-2	339	391	87	11	87	0	2	1.081	1.0	0	0	0	0	0.5	1.0	3.5	2.5	flat round type, medium netted skin, slight growth crack	
NYT7-5	338	456	74	26	74	0	0	1.072	1.0	0	0	0	0	0.5	0.6	2.5	2.5	uniform skin and flat round type, slight alligator hide	
NYT19-1	334	418	80	20	80	0	0	1.075	1.0	0	0	0	0	0.5	0.3	3.0	2.5	round to oval flat type, light netted skin	
NY168	325	434	75	24	75	0	1	1.088	1.5	0	20	0	0	1.5	0.8	2.0	3.0	purple blushing, flat round type, trace sticky stolons, skin cracking	
AF6567-4	323	371	87	11	87	0	2	1.094	1.0	10	20	0	0	1.0	0.5	2.0	2.5	non uniform type	
MSZ242-13	317	352	90	8	90	0	2	1.099	1.5	0	0	0	0	0.5	1.5	2.0	0.5	non uniform type, medium netted skin type	
AF6206-3	315	353	89	9	89	0	2	1.086	1.0	0	0	0	0	0.5	0.4	3.0	3.0	non uniform type, light netted skin	
AF6601-2	312	376	83	14	83	0	3	1.075	1.0	0	0	0	0	1.5	0.9	2.5	2.5	medium netted skin, blocky round type	
Lamoka	310	361	86	10	86	0	4	1.083	1.0	0	10	0	0	1.0	0.9	2.5	3.0	flat oval type, points in pickouts	
NY163	308	388	79	21	79	0	0	1.081	1.0	0	20	0	0	2.0	0.4	1.5	3.0	small blocky round type, purple blushed skin	
NYT22-1	301	391	77	23	77	0	0	1.077	2.0	0	0	0	0	0.5	1.0	2.5	2.0	blocky round to oval type, light netted skin	
AF6165-9	292	391	75	23	75	0	2	1.088	1.0	0	0	0	0	1.5	1.0	2.0	2.5	flat round type, light netted skin	
AF6206-5	287	358	80	15	80	0	5	1.098	1.0	0	0	0	0	1.5	0.5	2.0	2.5	growth cracks and misshapen tubers in pickouts, black scurf	
MSAA076-6	283	376	75	25	75	0	0	1.083	1.0	40	0	0	10	0.5	0.6	4.0	3.0	flat type, light netted skin, trace black scurf, inconsistent type	
MSDD089-2	273	306	89	10	87	2	1	1.074	1.0	0	0	0	0	0.5	0.1	1.5	2.5	blocky round type, medium netted skin	
AF5973-3	271	332	82	16	82	0	2	1.086	1.0	0	0	0	0	1.0	0.3	2.5	2.5	round uniform type, few misshapen tubers	
AF6555-2	269	315	85	15	85	0	0	1.082	1.0	0	20	0	0	1.0	1.5	2.5	3.0	deep apical eyes, less uniform round type	
AF6526-7	227	281	81	19	81	0	0	1.078	1.0	10	20	0	0	2.5	0.6	1.5	2.5	light to medium netted skin, non uniform type	
AC13126-1Wadg	227	259	87	12	85	2	1	1.077	1.5	20	20	0	0	1.0	1.9	1.0	2.0	non uniform type, variable medium netted skin	
AF6550-2	221	299	74	14	74	0	12	1.082	1.0	0	0	0	0	0.5	0.9	2.5	2.0	flat less uniform type, points and growth cracks in pickouts	
AF5933-4	189	278	68	32	68	0	0	1.087	1.5	0	0	0	0	1.5	1.6	3.0	2.0	round type, variable skin	
AF6717-1	141	208	68	32	68	0	0	1.070	1.0	10	20	0	0	1.5	1.2	2.0	2.5	round type, light netted skin	
MEAN	372	436	85	14	84	0	1	1.083	1.2	3	7	1	1	0.9	0.9	2.5	2.5		

¹SIZE

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

²SPECIFIC GRAVITY

Data not replicated

³OUT OF THE FIELD CHIP COLOR SCORE

(SNAC Scale)

Ratings: 1 - 5
 1: Excellent
 5: Poor

⁴RAW TUBER QUALITY

(percent of tubers out of 10)

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

⁵COMMON SCAB RATING

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

⁶SED (STEM END DEFECT) SCORE

0: No stem end defect
 1: Trace stem end defect
 2: Slight stem end defect
 3: Moderate stem end defect
 4: Severe stem end defect
 5: Extreme stem end defect

⁷VINE VIGOR RATING

Date: 6/23/22
 Rating 1-5
 1: Slow emergence
 5: Early emergence (vigorous vines, some flowering)

⁸VINE MATURITY RATING

Date: 8/11/22
 Rating 1-5
 1: Early (vines completely dead)
 5: Late (vigorous vines, some flowering)

FIELD DATA

Planting date	5/19/22
Vine Kill Date	9/8/22
Harvest Date	10/21/22
Days (planting to vine kill)	112
Days (planting to harvest)	155
GDD ₄₀ MAWN Station	Entrican
GDD ₄₀ (planting to vine kill)	3103
Seed Spacing	10"

2022 Storage Chip Processing Potato Variety Trial

Montcalm Research Center Box Bin

Planting: 5/20/22 Vine Kill: 9/7/22 Harvest: 9/30/22 and 10/4/22
GDD₄₀: 3045

LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ⁴ (%)							COMMON SCAB RATING ⁵	SED SCORE ⁶	VINE VIGOR ⁷	VINE MATURITY ⁸	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	OTF CHIP SCORE ³	HH	VD	IBS	BC						
MSDD088-1	602	646	93	7	93	0	0	1.075	1.0	0	30	0	0	0.5	0.3	3.0	3.0	flat round to oval type, light netted skin, slight alligator hide and pink eye	
NY174	573	602	95	5	95	0	0	1.091	1.0	10	20	0	0	0.5	0.4	3.5	3.5	large flat blocky tuber type, thin netted skin	
Mackinaw	529	558	95	5	94	1	0	1.091	1.0	0	30	0	0	0.0	0.2	2.0	2.0	non uniform type, moderate rhizoctonia, heavy netted skin	
MSBB636-11	528	572	92	4	85	7	4	1.078	1.0	0	20	0	0	1.0	0.1	1.5	3.0	large blocky round type, light skin, skinning, poor shape, moderate pit rot	
MSAA076-6	499	574	87	10	87	0	3	1.091	1.0	0	20	0	0	1.0	0.4	2.5	2.5	poor appearance, deeper apical eyes, light netted skin	
MSAA260-03	498	529	94	5	93	1	1	1.093	1.5	0	20	0	0	0.5	0.9	3.0	3.0	blocky round tuber type, thin skin, deep apical eyes	
W15NYR11-13	474	550	86	14	86	0	0	1.085	1.0	0	30	0	0	1.5	0.2	3.0	3.0	nice tuber size profile, medium netted skin	
MSBB630-2	461	525	88	9	88	0	3	1.083	1.5	0	0	0	0	0.5	0.3	2.0	2.0	medium round tuber type, light netted skin, nice appearance	
MSZ242-13	458	509	90	5	90	0	5	1.098	1.0	0	0	0	0	1.0	0.3	2.5	2.5	blocky flat round to oval type, less uniform shape	
MSBB058-1	444	495	90	9	90	0	1	1.097	1.0	0	0	0	0	0.5	0.2	2.5	2.5	blocky round type, light netted skin, trace skinning	
MSBB008-3	423	448	94	6	94	0	0	1.083	1.0	0	20	0	0	1.0	0.6	2.5	2.5	flat round to oval tuber type, medium netted skin	
Snowden	417	463	90	10	90	0	0	1.091	1.0	40	30	0	0	2.0	0.3	2.5	2.5	flat round tuber type, medium to heavy netted skin	
MSDD084-19	410	467	88	11	88	0	1	1.077	1.0	40	20	0	0	0.5	0.1	2.0	2.0	large flat blocky tuber type	
MSBB614-15	407	430	95	2	90	5	3	1.083	1.0	0	20	0	0	0.5	0.0	2.5	2.5	large flat oval type, growth crack in pickouts, sheep nose in large tubers	
MSBB610-13	402	443	91	7	89	2	2	1.081	1.0	0	0	0	0	0.5	0.4	2.0	2.0	flat blocky round to oval type, medium netted skin	
MSEE031-3	386	418	92	7	92	0	1	1.088	1.0	0	0	0	0	0.5	0.7	2.5	2.5	flat round to oval tuber type, light netted skin	
MSDD089-2	382	400	96	3	94	2	1	1.078	1.0	0	0	0	0	0.5	0.1	1.5	1.5	round to oval tuber type, medium netted skin	
NYR1-7	375	419	90	10	90	0	0	1.088	1.0	0	30	0	0	1.0	0.4	3.5	3.5	flat round to oval type, think skin	
CO12293-1W	370	403	92	7	92	0	1	1.074	1.0	0	20	0	0	1.5	0.3	3.0	3.0	blocky round type, thin skin, trace growth crack in pickouts	
MSDD244-05	367	391	94	6	94	0	0	1.089	1.0	0	0	0	0	1.0	0.1	2.5	2.5	blocky round tuber type, medium netted skin, deeper apical eyes	
MSDD376-4	359	390	92	7	92	0	1	1.085	1.5	0	20	0	0	0.5	0.0	2.5	2.5	flat round tuber type, medium to heavy netted skin	
MSDD553-01	359	435	83	17	81	2	0	1.092	1.0	0	10	0	0	0.5	0.7	2.0	2.0	flat round type, medium netted skin	
NY168	351	413	85	14	85	0	1	1.091	1.0	0	0	0	0	0.0	0.8	2.5	2.5	flat round to oval type, not uniform, thin skin, purple skin pigmentation	
AF6603-5	343	392	88	12	88	0	0	1.087	1.0	0	20	0	0	2.0	0.0	2.5	2.5	blocky round type, light netted skin	
MSFF097-6	295	368	80	20	80	0	0	1.088	1.0	0	30	0	0	0.5	0.0	2.0	2.0	small round uniform type, medium to heavy netted skin	
MSW474-1	280	353	79	21	79	0	0	1.083	1.0	0	10	0	0	0.5	0.1	2.5	3.5	uniform round tuber type, medium netted skin	
NY175	270	328	82	18	82	0	0	1.080	1.0	0	0	0	0	1.5	0.6	3.0	3.0	blocky round tuber type, thin skin	
MSAFB635-15	266	403	66	34	66	0	0	1.094	1.0	0	10	0	0	1.5	0.1	2.5	2.5	smaller uniform round type, medium netted skin	
AF6526-7	226	274	83	15	83	0	2	1.083	1.0	0	0	0	0	2.5	0.1	3.0	3.0	flat oval tuber type, thin skin	
NYS37-2	218	226	96	4	96	0	0	1.088	1.0	0	0	0	0	0.5	0.0	2.0	2.0	flat round type, light netted skin	
MSAFB609-12	204	257	79	21	79	0	0	1.081	1.0	0	0	0	0	2.0	0.5	2.0	2.0	smaller flat round to oval tuber type, thin skin	
NY163	141	258	55	45	55	0	0	1.077	1.0	0	0	0	0	0.0	0.2	2.0	2.0	small round uniform type, thin skin, moderate purple skin pigmentation	
Sinatra	132	308	43	53	43	0	4	1.089	1.0	0	0	0	0	1.5	0.1	3.5	3.5	flat oval to oblong tuber type, thin skin	
MEAN	377	432	86	13	86	1	1	1.086	1.0	3	12	0	0	0.9	0.3	2.5	2.6		

¹SIZE	²SPECIFIC GRAVITY	³OUT OF THE FIELD CHIP COLOR SCORE	⁴RAW TUBER QUALITY	⁵COMMON SCAB RATING	⁶SED (STEM END DEFECT) SCORE
Bs: < 1 7/8"	Data not replicated	(SNAC Scale)	(percent of tubers out of 10)	0.0: Complete absence of surface or pitted lesions	0: No stem end defect
As: 1 7/8" - 3 1/4"		Ratings: 1 - 5	HH: Hollow Heart	1.0: Presence of surface lesions	1: Trace stem end defect
OV: > 3 1/4"		1: Excellent	VD: Vascular Discoloration	2.0: Pitted lesions on tubers, though coverage is low	2: Slight stem end defect
PO: Pickouts		5: Poor	IBS: Internal Brown Spot	3.0: Pitted lesions common on tubers	3: Moderate stem end defect
			BC: Brown Center	4.0: Pitted lesions severe on tubers	4: Severe stem end defect
				5.0: More than 50% of tuber surface area covered in pitted lesions	5: Extreme stem end defect
⁷VINE VIGOR RATING	⁸VINE MATURITY RATING	FIELD DATA			
Date: 6/23/22	Date: 8/11/22	Planting date	5/20/22		
Rating 1-5	Rating 1-5	Vine Kill Date	9/7/22		
1: Slow emergence	1: Early (vines completely dead)	Harvest Date	9/30/22 and 10/4/22		
5: Early emergence (vigorous vines, some flowering)	5: Late (vigorous vines, some flowering)	Days (planting to vine kill)	110		
		Days (planting to harvest)	133		
		GDD ₄₀ MAWN Station	Entrican		
		GDD ₄₀ (planting to vine kill)	3045		
		Seed Spacing	10"		

2022 Replicated Chip Processing Potato Variety Trial Potatoes USA SNAC Trial Sandyland Farms

Planting: 5/23/22 Vine Kill: 9/1/22 Harvest: 10/20/22
GDD₄₀: 2842

LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ⁴ (%)						COMMON SCAB RATING ⁵	SED SCORE ⁶	VINE VIGOR ⁷	VINE MATURITY ⁸	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	OTF CHIP SCORE ³	HH	VD	IBS	BC					
W15125-4	566	610	93	7	92	1	0	1.082	1.5	13	0	0	0	2.7	1.8	4.0	4.0	thin skin, trace sticky stolons, round type
Snowden	452	540	84	16	84	0	0	1.085	1.0	10	10	0	0	2.5	0.6	3.5	3.0	blocky type, trace anthocyanin pigmentation
Lamoka	383	450	85	14	85	0	1	1.080	1.0	0	16	0	0	2.2	0.5	4.0	3.0	oval type, thin skin, slight skinning
MSZ242-13	379	408	93	6	93	0	1	1.093	1.0	0	0	0	0	0.8	0.5	3.5	2.0	trace growth cracks and pointed tubers, attractive appearance
MSAFB635-15	360	477	76	24	76	0	0	1.084	1.0	0	3	0	0	2.0	1.2	3.0	3.0	darker skin, variable type
W15NYR11-13	357	437	82	17	82	0	1	1.072	1.0	3	20	0	0	3.2	1.3	3.5	3.0	oval to long type, trace sticky stolons
MSAFB609-12	355	436	82	18	82	0	0	1.080	1.0	0	3	0	0	2.2	1.2	3.0	3.0	slight skinning, slightly recessed apical ends
NY163	348	427	81	18	81	0	0	1.080	1.0	0	0	0	0	2.0	0.0	2.5	3.0	round type, shallow eyes, nice type
NY168	342	436	78	21	78	0	1	1.086	1.5	3	3	0	0	3.0	1.9	3.0	3.5	slightly flattened type, thin skin
MSW474-1	301	388	78	22	78	0	0	1.081	1.0	0	10	0	0	0.7	1.0	4.0	3.5	inconsistent skin, deeper apical eyes
MEAN	384	461	83	16	83	0	0	1.082	1.1	3	7	0	0	2.1	1.0	3.4	3.1	

¹**SIZE**

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

²**SPECIFIC GRAVITY**

Data is replicated

³**OUT OF THE FIELD CHIP COLOR SCORE**

(SNAC Scale)
Ratings: 1 - 5
1: Excellent
5: Poor

⁴**RAW TUBER QUALITY**

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

⁵**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

⁶**SED (STEM END DEFECT) SCORE**

0: No stem end defect
1: Trace stem end defect
2: Slight stem end defect
3: Moderate stem end defect
4: Severe stem end defect
5: Extreme stem end defect

⁷**VINE VIGOR RATING**

Date: 6/23/22
Rating 1-5
1: Slow emergence
5: Early emergence (vigorous vines, some flowering)

⁸**VINE MATURITY RATING**

Date: 8/11/22
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

FIELD DATA

Planting date 5/23/22
Vine Kill Date 9/1/22
Harvest Date 10/20/22
Days (planting to vine kill) 101
Days (planting to harvest) 150
GDD₄₀ MAWN Station Entrican
GDD₄₀ (planting to vine kill) 2842
Seed Spacing 10"

2022 Storage Chip Processing Potato Variety Trial

Sandyland Set 1

Planting: 5/23/22 Vine Kill: 9/1/22 Harvest: 10/20/22

GDD₄₀: 2842

LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ⁴ (%)					COMMON SCAB RATING ⁵	VINE VIGOR ⁷	VINE MATURITY ⁸	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	HH	VD	IBS	BC				
MSAFB635-15	618	691	90	10	90	0	0	1.083	0	0	0	0	0.5	3.0	2.5	darker skin, compressed type
Mackinaw	599	642	93	7	93	0	0	1.083	0	0	0	0	1.5	3.0	3.0	slight eyebrows, deeper apical ends
NY163	469	541	87	11	87	0	2	1.084	0	0	0	0	2.0	2.5	3.5	thin skin, nice bright appearance
NY168	460	538	85	14	85	0	1	1.083	0	0	0	0	3.0	2.5	3.5	sticky stolons, pitted scab
MSAFB609-12	261	371	70	30	70	0	0	1.081	0	0	0	0	1.5	3.0	2.0	nice round type, bright skin
MEAN	481	557	85	14	85	0	1	1.083	0	0	0	0	1.7	2.8	2.9	

¹SIZE

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

²SPECIFIC GRAVITY

Data not replicated

³OUT OF THE FIELD CHIP COLOR SCORE

(SNAC Scale)
Ratings: 1 - 5
1: Excellent
5: Poor

⁴RAW TUBER QUALITY

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

⁵COMMON SCAB RATING

0.0: Complete absence of surface or pitted lesions
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2.0: Pitted lesions on tubers, though coverage is low
3.0: Pitted lesions common on tubers
4.0: Pitted lesions severe on tubers
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⁶SED (STEM END DEFECT) SCORE

0: No stem end defect
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3: Moderate stem end defect
4: Severe stem end defect
5: Extreme stem end defect

⁷VINE VIGOR RATING

Date: 6/23/22
Rating 1-5
1: Slow emergence
5: Early emergence (vigorous vines, some flowering)

⁸VINE MATURITY RATING

Date: 8/11/22
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

FIELD DATA

Planting date 5/23/22
Vine Kill Date 9/1/22
Harvest Date 10/20/22
Days (planting to vin 101
Days (planting to har 150
GDD₄₀ MAWN Statio Entrican
GDD₄₀ (planting to vi 2842
Seed Spacing 10"

2022 Chip Processing Potato Variety Trial

Verbrigghe Potato Farms

Planting: 6/1/22 Vine Kill: 9/15/22 Harvest: 10/13/22

GDD₄₀: 2633

LINE	CWT/A		PERCENT OF TOTAL ¹						RAW TUBER QUALITY ³ (%)				COMMON SCAB RATING ⁴	VINE VIGOR ⁵	VINE MATURITY ⁶
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	HH	VD	IBS	BC			
MSDD084-19	412	463	88	12	67	21	0	1.083	0	0	0	0	0.0	4.0	3.5
MSZ242-13	371	401	92	6	64	28	2	1.087	0	0	1	0	1.0	4.0	4.0
MSAFB635-15	365	523	71	29	71	0	0	1.095	0	10	10	0	2.0	4.5	4.0
NY168	326	340	96	1	54	42	3	1.080	0	0	10	0	0.0	3.0	4.0
NY163	299	404	74	25	73	1	1	1.078	0	0	0	0	0.0	3.5	3.0
Mackinaw	241	315	76	23	76	0	1	1.090	0	0	0	0	1.0	4.0	4.0
MSAFB609-12	219	374	58	41	55	3	1	1.088	0	0	0	0	3.0	4.0	3.5
Snowden	206	336	62	35	60	2	3	1.094	0	0	0	0	3.0	4.5	3.0
MEAN	305	394	77	22	65	12	1	1.087	0	1	3	0	1.3	3.9	3.6

¹SIZE

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: 7/15/22

Rating 1-5

1: Slow emergence

5: Early emergence

FIELD DATA

Planting Date	6/1/22
Vine Kill Date	9/15/22
Harvest Date	10/13/22
Days (planting to vine kill)	106
Days (planting to harvest)	134
GDD ₄₀ MAWN Station	Escanaba
GDD ₄₀ (planting to vine kill)	2633
Seed Spacing	10"

⁶VINE MATURITY RATING

Date: 8/30/22

Rating 1-5

1: Early (vines completely dead)

5: Late (vigorous vines, some flowering)

2022 Fresh Chip Processing Potato Variety Trial

Walther Farms

Planting: 4/30/22 Vine Kill: N/A Harvest: 8/22/2022

GDD₄₀: 3222

LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ⁴ (%)						COMMON SCAB RATING ⁵	SED SCORE ⁶	VINE VIGOR ⁷	VINE MATURITY ⁸	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	OTF CHIP SCORE ³	HH	VD	IBS	BC					
MSAA252-7	704	725	97	3	92	5	0	1.073	1.5	0	20	0	0	0.5	0.1	3.5	4.0	pink eye and alligator hide, larger tubers
MSEE031-3	696	765	91	8	91	0	1	1.078	1.5	0	30	0	0	0.0	0.3	4.0	-	nice blocky appearance, thin skin, trace flattened tubers
NYT11-3	552	613	90	9	90	0	1	1.079	1.0	0	40	20	0	0.5	0.1	3.5	3.0	slight pinkeye, bright appearance, thin skin, oval to oblong
MSBB058-1	543	588	92	7	92	0	1	1.084	1.0	0	20	0	0	0.5	0.1	3.0	3.0	non uniform tuber type, trace growth crack
MSAA260-03	542	582	93	6	93	0	1	1.072	1.5	0	30	0	10	1.0	0.4	3.5	3.0	deeper apical eyes, heat knobs, trace sticky stolons
Lady Liberty	509	579	88	11	88	0	1	1.068	1.5	0	30	0	0	0.5	0.2	3.0	3.0	slight pinkeye, round uniform type, sticky stolons
NY175	503	569	88	11	88	0	1	1.072	1.0	0	0	0	0	0.0	0.1	3.5	3.0	bright thin skin, oval to oblong tuber type
NYR1-7	496	546	91	8	89	2	1	1.077	1.0	20	30	10	0	0.5	0.2	3.5	3.0	trace points, nice appearance
NY163	485	543	89	9	89	0	2	1.080	1.0	0	60	0	0	0.0	0.1	3.0	3.0	trace growth crack, heat knobs, purple apical ends
MSAFB635-15	479	550	87	13	87	0	0	1.079	1.5	0	30	0	0	1.5	0.2	3.5	3.0	heavy skin, slight skinning
NY174	469	523	90	9	90	0	1	1.083	1.0	0	20	0	0	0.0	0.1	4.0	3.0	trace points
MSAA076-6	457	583	78	15	78	0	7	1.083	1.0	0	40	10	0	0.0	0.1	3.0	3.0	growth crack, thin skin, knobs, slight deep apical eyes
Mackinaw	449	503	89	9	89	0	2	1.079	2.0	0	30	0	0	0.0	0.2	2.5	3.0	trace pink eye, missshapen pickouts
MSBB008-3	443	488	91	8	91	0	1	1.069	1.0	20	20	0	0	0.0	0.2	3.5	3.0	oval to long type, deeper eyes, slight sheep nose, moderate skinning
MSAFB609-12	439	490	90	10	90	0	0	1.076	1.0	0	50	0	0	0.0	0.2	2.5	3.0	trace pinkeye, small size profile
NYT3-3	438	518	85	12	85	0	3	1.072	1.0	0	30	0	0	1.0	0.3	3.0	2.5	pink skin blushing, non uniform tuber type
W15NYR11-13	438	540	81	17	81	0	2	1.072	1.0	0	20	0	0	0.5	0.2	3.5	3.0	bright thin skin, trace growth crack, purple blush areas on tubers
MSZ242-13	433	471	92	7	92	0	1	1.085	1.5	10	20	0	0	0.0	0.1	2.5	3.0	heavy skin, skinning
MSBB626-11	430	465	93	6	93	0	1	1.079	1.0	0	30	0	0	0.0	0.7	3.0	3.0	rough deeper eyes, poor appearance, thin skin
MSCC009-1	429	491	87	11	87	0	2	1.070	1.5	0	30	20	0	0.0	0.2	4.0	3.0	slight pinkeye, trace alligator hide
Petoskey	425	473	90	10	90	0	0	1.077	2.0	0	20	0	0	0.5	0.2	2.5	3.0	moderate alligator hide, skinning, heavier skin type
MSDD249-9	397	439	90	10	90	0	0	1.070	1.5	0	30	0	0	0.0	0.2	3.5	3.0	flat round to oval type, nice appearance
MSDD084-19	395	452	87	12	87	0	1	1.067	2.0	0	40	60	0	0.5	0.6	3.0	3.0	sticky stolons, flat oval tuber type, heat sprouts
MSBB636-11	387	470	82	13	82	0	5	1.067	1.0	0	50	0	0	0.5	0.1	1.5	2.5	trace growth crack, thin skinned
CO12293-1W	385	425	91	8	91	0	1	1.068	1.0	0	30	0	0	1.0	0.5	3.0	3.0	oval, thin skinned, sticky stolons
MSDD219-2	365	440	83	12	83	0	5	1.074	2.0	0	10	0	0	0.0	0.6	2.5	4.0	nice medium netted skin, points, trace heat knobs
NY168	357	435	82	17	82	0	1	1.089	1.0	0	30	0	0	0.5	0.1	3.0	3.0	sticky stolons, heavier skin type
Atlantic	352	409	86	12	86	0	2	1.079	2.0	10	40	10	0	0.5	0.4	3.5	4.0	trace sticky stolons
MEAN	464	524	88	10	88	0	2	1.076	1.3	2	30	5	0	0.4	0.2	3.1	3.1	

¹**SIZE**

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

²**SPECIFIC GRAVITY**

Data not replicated

³**OUT OF THE FIELD CHIP COLOR SCORE**

(SNAC Scale)
Ratings: 1 - 5
1: Excellent
5: Poor

⁴**RAW TUBER QUALITY**

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

⁵**COMMON SCAB RATING**

0.0: Complete absence of surface or pitted lesions
1.0: Presence of surface lesions
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4.0: Pitted lesions severe on tubers
5.0: More than 50% of tuber surface area covered in pitted lesions

⁶**SED (STEM END DEFECT) SCORE**

0: No stem end defect
1: Trace stem end defect
2: Slight stem end defect
3: Moderate stem end defect
4: Severe stem end defect
5: Extreme stem end defect

⁷**VINE VIGOR RATING**

Date: 6/10/22
Rating 1-5
1: Slow emergence
5: Early emergence (vigorous vines, some flowering)

⁸**VINE MATURITY RATING**

Date: 8/18/22
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

FIELD DATA

Planting date 4/30/22
Vine Kill Date N/A
Harvest Date 8/22/22
Days (planting to vine kill) N/A
Days (planting to harvest) 114
GDD₄₀ MAWN Station Lawton
GDD₄₀ (planting to vine kill) 3222
Seed Spacing 10"

2022 Replicated Storage Chip Processing Potato Variety Trial

Walther Farms

Planting: 5/11/22 Vine Kill: 9/1/22 Harvest: 9/20/22
GDD₄₀: 3388

LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ⁴ (%)							COMMON SCAB RATING ⁵	SED SCORE ⁶	VINE VIGOR ⁷	VINE MATURITY ⁸	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	OTF CHIP SCORE ³	HH	VD	IBS	BC						
AF6603-5	587	617	95	5	95	0	0	1.081	1.5	5	10	0	0	1.8	1.2	2.3	2.7	deeper apical eyes, blocky round tuber type	
Snowden	580	636	91	9	91	0	0	1.084	1.0	7	7	0	0	1.8	0.9	2.7	2.8	round type, deeper eyes	
Lady Liberty	570	617	92	8	92	0	0	1.076	1.0	0	20	3	0	1.0	1.0	2.7	2.8	blocky round type, medium netted skin	
NYS18-4	567	612	93	6	93	0	1	1.078	1.0	7	0	0	0	1.3	0.8	3.0	3.0	flattened round to oval type	
AF6206-3	564	589	96	4	94	2	0	1.083	1.0	3	0	0	0	1.3	1.2	2.3	2.8	blocky round type	
MSDD249-9	559	587	95	5	94	1	0	1.082	1.0	0	0	0	0	0.3	1.1	2.2	3.0	round to oval type, nice appearance	
AF6565-8	558	610	92	8	91	1	0	1.082	1.0	0	0	0	0	0.5	0.6	2.2	3.0	uniform round type, nice appearance	
AF6555-2	546	597	92	7	91	1	1	1.084	1.0	3	3	10	0	1.2	1.9	2.2	2.8	deeper apical eyes, trace sheep nose	
NY175	539	626	86	13	86	0	1	1.077	1.5	0	3	3	0	1.5	1.3	2.7	2.5	blocky round type, moderate sticky stolons	
AF6552-2	538	568	95	4	94	1	1	1.085	1.0	0	0	0	0	1.5	1.6	2.7	3.0	blocky round type, slight sticky stolons	
MSDD088-1	526	603	87	12	87	0	1	1.067	1.0	0	7	0	0	0.3	1.1	2.0	3.0	uniform flat round uniform type, nice appearance	
AF6601-2	525	594	88	10	88	0	2	1.077	1.5	0	0	0	0	1.2	1.1	2.7	2.7	blocky round type, moderate skinning	
NY174	520	558	93	5	93	0	2	1.081	1.0	3	0	0	0	0.3	0.7	3.0	3.0	flat round type	
MSBB636-11	513	558	92	6	87	5	2	1.070	1.0	3	0	0	0	0.3	0.6	1.0	2.5	large round tubers, trace knobs in pickouts	
MSBB008-3	513	554	93	6	92	1	1	1.072	1.0	3	0	0	0	1.3	0.8	2.2	2.8	darker skin, inconsistent type	
Lamoka	513	539	95	4	94	1	1	1.083	1.0	0	3	7	0	0.8	1.2	2.5	2.8	flattened oval type, light skin	
AF6200-4	512	557	92	6	91	1	2	1.078	1.0	0	0	0	0	1.7	1.3	2.5	2.8	flat round type, heavy netted skin	
NYT11-3	511	574	89	10	89	0	1	1.080	1.0	0	7	0	0	1.3	0.6	2.3	2.5	light netted skin, round type	
NYR1-7	509	568	89	10	89	0	1	1.081	1.0	3	0	0	0	1.5	0.6	2.8	2.8	oval to oblong type, less uniform	
MSW474-1	507	590	86	13	86	0	1	1.081	1.0	0	0	0	0	0.3	1.1	3.2	3.0	misshapen tubers, medium netted skin	
AF6526-7	503	543	93	6	92	1	1	1.083	1.0	23	0	0	0	2.0	0.7	2.7	2.7	flattened round to oval type, light netted skin	
W15125-4	498	534	93	6	92	1	1	1.076	1.5	0	0	0	0	1.3	1.8	1.9	3.0	sticky stolons, medium netted skin	
MSBB610-13	494	507	97	2	95	2	1	1.081	1.0	0	0	0	0	0.3	0.6	1.5	2.5	blocky round type	
AF6206-5	494	549	90	7	90	0	3	1.091	1.0	0	0	0	0	1.3	1.1	3.2	2.7	flattened round to oval type, trace sticky stolons	
AF6200-7	485	505	97	2	96	1	1	1.091	1.5	0	3	0	0	0.2	1.0	2.3	2.8	heavy netted skin, deep eyes, large flattened round type	
MSDD376-4	484	545	89	10	88	1	1	1.083	1.0	0	0	0	0	0.3	1.2	3.2	2.8	flat round type, heavy netted skin	
Mackinaw	484	522	93	6	93	0	1	1.085	1.5	0	0	0	0	0.7	1.1	1.7	2.8	flattened round to oval type, medium netted skin	
MSAFB635-15	473	524	91	9	91	0	0	1.084	1.0	0	0	0	0	1.3	1.1	2.2	2.5	round type	
MSEE031-3	473	530	90	7	89	1	3	1.083	1.5	0	0	3	0	0.5	1.2	3.2	2.7	flat round type, light skin, trace sticky stolons	
MSBB058-1	469	494	95	4	95	0	1	1.090	1.0	0	3	0	0	0.7	1.1	1.7	2.8	blocky round type, deeper apical eyes	
MSZ242-13	468	494	94	5	93	1	1	1.093	1.0	0	7	3	0	0.3	0.6	2.0	2.7	round blocky type	
MSDD372-07	468	529	88	12	88	0	0	1.088	1.0	0	3	0	0	0.7	0.9	3.0	3.0	smaller uniform round type, moderate sticky stolons	
MSAA076-6	466	540	86	12	86	0	2	1.087	1.0	0	0	7	0	1.0	1.1	3.0	2.5	blocky round type, heavy netted skin	
CO12293-1W	465	507	92	5	91	1	3	1.076	1.0	3	0	0	0	1.5	1.1	2.2	2.8	flattened round type, light netted skin	
W15NYR11-13	464	540	86	12	86	0	2	1.075	1.0	3	3	0	0	2.2	0.4	2.5	3.0	heavy netted skin, less uniform type	
NY163	462	526	88	11	88	0	1	1.077	1.0	3	0	3	3	0.2	0.7	1.8	3.0	apical anthocyanin pigmentation, light skin	
MSDD084-19	460	531	86	10	86	0	4	1.073	1.5	0	3	50	0	0.8	1.2	1.8	2.8	heavy netted skin, moderate sticky stolons	
Petoskey	457	495	92	7	92	0	1	1.086	1.0	0	0	0	0	0.7	1.3	1.3	2.7	heavy netted skin, round type	
AF5973-3	456	498	92	7	91	1	1	1.084	1.5	10	7	0	0	0.7	1.0	2.2	2.3	blocky round type, light skin, trace pointed tubers	
NY168	451	516	87	9	87	0	4	1.088	1.0	0	0	0	0	0.8	1.0	2.2	3.0	non uniform type, medium netted skin	
AF6550-2	451	527	85	10	85	0	5	1.082	1.0	0	7	0	0	1.3	1.2	3.5	2.7	flat blocky type, trace apical heat sprouting	
MSAFB609-12	438	496	88	11	88	0	1	1.082	1.0	0	0	3	0	1.5	0.9	1.5	2.8	flat round type, misshapen pickouts	
MSAA260-3	437	474	92	7	90	2	1	1.080	1.0	0	0	23	17	0.8	1.5	2.0	2.7	blocky round type, light netted skin	
AF6165-9	429	495	87	11	86	1	2	1.084	1.0	7	10	0	0	1.5	1.1	2.5	2.8	flattened round type, light netted skin	
WAF16107-2	418	447	93	6	93	0	1	1.078	1.0	3	3	0	0	0.7	0.6	2.2	2.3	blocky round type, heavy netted skin	

MSFF097-6	412	489	84	15	84	0	1	1.086	1.5	0	7	0	0	0.8	1.2	2.5	3.0	heavy netted skin, blocky round type
AF5933-4	404	474	85	13	85	0	2	1.082	1.0	0	0	0	0	1.2	1.2	2.7	2.7	light netted skin, round to oval type
NYS37-2	368	419	88	11	88	0	1	1.079	1.0	0	0	7	0	1.0	1.1	2.3	2.5	blocky round type, slight growth crack
AF6522-1	349	488	72	27	72	0	1	1.073	1.0	0	0	0	3	1.5	1.4	2.8	2.7	small uniform round type, medium netted skin
AF6567-4	342	422	81	8	81	0	11	1.086	1.0	7	0	0	0	1.3	0.7	2.7	3.3	inconsistent type, marginal appearance
MSBB614-15	342	401	85	3	85	0	12	1.079	1.5	7	0	0	0	0.3	0.7	2.2	2.8	moderate growth crack, heavy netted skin
MEAN	486	538	90	8	90	1	2	1.081	1.1	2	2	2	0	1.0	1.0	2.4	2.8	

¹SIZE

Bs: < 1 7/8"

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

OV: > 3 1/4"

PO: Pickouts

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Data not replicated

³OUT OF THE FIELD CHIP COLOR SCORE**(SNAC Scale)**

Ratings: 1 - 5

1: Excellent

5: Poor

⁴RAW TUBER QUALITY**(percent of tubers out of 10)**

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⁵COMMON SCAB RATING

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

⁶SED (STEM END DEFECT) SCORE

0: No stem end defect

1: Trace stem end defect

2: Slight stem end defect

3: Moderate stem end defect

4: Severe stem end defect

5: Extreme stem end defect

⁷VINE VIGOR RATING

Date:

Rating 1-5

1: Slow emergence

5: Early emergence (vigorous

vines, some flowering)

⁸VINE MATURITY RATING

Date:

Rating 1-5

1: Early (vines completely dead)

5: Late (vigorous vines, some

flowering)

FIELD DATA

Planting date

5/11/22

Vine Kill Date

9/1/22

Harvest Date

9/20/22

Days (planting to vine kill)

113

Days (planting to harvest)

132

GDD₄₀ MAWN Station

Mendon

GDD₄₀ (planting to vine kill)

3388

Seed Spacing

10"

2022 Chip Process Potatoes Bulk Planting Test Digs

LINE	CWT/A		PERCENT OF TOTAL ¹						Stand Count	Stem Count	Bs	As	OV	PO	Total Tubers	Tubers		Average Tuber Weight	RAW TUBER QUALITY ² (%)			
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²								per Plant	per Stem		HH	VD	IBS	BC
Bin 1 MSW474-1 Walther Farms, Cass City	361	450	81	10	71	10	9	1.081	6	27	32	59	4	15	110	18.3	4.1	4.3	0	20	0	0
Bin 2 NY163 Sandyland Farms, Howard City	384	457	84	15	78	6	1	1.080	10	36	49	95	4	1	149	14.9	4.1	3.3	0	0	0	0
Bin 3 and 4 MSW474-1 Walther Farms, Three Rivers	433	502	86	13	84	2	1	1.090	9	39	38	94	1	1	134	14.9	3.4	3.9	0	0	0	0
Bin 5 and 6 MSW474-1 Thorlund Bros., Greenville	339	418	81	19	79	2	0	1.088	9	31	48	49	1	0	98	10.9	3.2	3.4	0	10	0	0
Bin 9 MSZ242-13 Lennard Ag. Co., Sturgis	388	426	91	4	76	15	5	1.080	7	13	14	58	6	2	80	11.4	6.2	5.5	0	0	0	0
Lamoka Walther Farms, Cass City	272	363	75	17	69	6	8	1.079	7	32	39	56	2	9	106	15.1	3.3	3.6	0	10	0	0
Mackinaw Walther Farms, Three Rivers	385	456	85	5	44	41	11	1.091	8	17	14	34	14	8	70	8.8	4.1	6.8	10	0	0	0
MEAN	366	439	83	12	72	12	5	1.084	8	28	33	64	5	5	107	13.5	4.1	4.4	1	6	0	0

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OV: > 10 oz
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(percent of tubers out of 10)
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