

2023 Potato Outreach Program On-Farm Variety Trials

Data Summary: Michigan Chip Processing Trials

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2023 Michigan Statewide Chip Processing Potato Variety Trials Overall Averages - Twelve 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						
SP327 ^{hi}	764	842	91	7	91	0	2	1.070	1.5	0	2	14	0	0.3	1.5	3.9	2.7	round blocky type, bright skin	
AF6206-3 ^{cek}	752	798	95	4	94	1	1	1.084	1.0	0	7	0	0	1.3	0.2	4.0	3.5	bright skin, nice blocky round to oval type	
MSDD376-4 ^{abcefgkl}	708	757	94	6	93	1	0	1.087	1.1	11	9	3	0	0.6	0.4	4.0	3.5	flat blocky type, heavy netted skin, sticky stolons	
Winterset ^{bdk}	662	721	92	7	91	1	1	1.086	1.3	3	0	10	3	1.2	0.3	3.0	2.7	flat round type, slight skinning	
MSDD249-9 ^{aeeg}	634	643	98	2	94	4	0	1.082	1.0	3	3	0	0	1.7	0.7	3.8	2.8	large oval type, consistent appearance	
MSDD553-1 ^{abcefgkl}	629	678	93	6	92	1	1	1.079	1.1	1	13	0	0	1.0	0.5	3.3	3.4	blocky round type, slight skinning, trace pointed tubers	
MSBB630-2 ^{abcefgkl}	622	701	87	11	84	3	2	1.078	1.3	9	7	2	2	0.5	0.3	3.3	3.7	large round type, some misshapen tubers, trace sticky stolons	
AF6675-1 ^{abefkl}	604	702	85	13	85	0	2	1.070	1.2	0	21	2	0	1.0	0.3	3.5	2.4	heavy netted skin, blocky oval type	
Lady Liberty ^{af}	598	660	91	8	91	0	1	1.078	1.0	5	20	0	0	0.0	0.2	4.0	2.8	attractive round type, bright appearance	
Manistee^{adef}	587	639	92	7	90	2	1	1.080	1.0	3	10	5	0	1.0	0.2	4.3	2.9	compressed type, heavy netted skin, deep eyes	
AF6565-8 ^{acdefgkl}	585	637	92	7	91	1	1	1.082	1.0	0	6	0	0	0.9	0.2	3.8	3.0	poor appearance, deeper eyes, blocky type	
NY179 ^{abcefgkl}	584	644	90	10	90	0	0	1.080	1.1	4	3	0	0	1.7	0.3	3.4	2.8	long oval type, medium netted skin	
NY174 ^{aeefghl}	582	647	90	7	90	0	3	1.082	1.0	0	7	0	0	0.9	0.4	3.8	2.8	flat round to oval type, heavier skin	
MSW474-1 ^{acdefgl}	581	661	88	11	87	1	1	1.084	1.0	0	7	2	0	0.1	0.3	4.2	3.2	uniform round type, deeper eyes, light skin	
MSAA252-7 ^{bdk}	577	606	95	5	92	3	0	1.080	1.2	3	0	0	0	1.0	0.1	3.0	4.0	rough blocky type, heavy netted skin	
MSEE035-4 ^{af}	573	641	89	7	88	1	4	1.087	1.0	3	6	1	0	0.5	0.8	3.7	3.0	trace growth crack, light netted skin	
MSFF038-3 ^{abcefgkl}	568	617	92	6	92	0	2	1.079	1.3	8	2	0	3	1.2	0.3	3.7	2.8	deeper eyes, heavy skin, round type	
AF6200-4 ^{cddeghl}	558	597	94	4	92	2	2	1.077	1.1	1	2	1	0	1.3	0.2	3.9	3.1	flat blocky round type, inconsistent shape	
AF6886-3 ^l	548	576	95	4	88	7	1	1.066	1.0	0	13	17	7	1.0	0.3	3.7	2.7	blocky round type	
MSBB614-15 ^{abcefgkl}	547	582	95	2	93	2	3	1.079	1.1	4	1	0	0	0.6	0.2	3.3	3.9	heavy netted skin, growth crack, some sticky stolons	
MSAA217-3 ^{acdefgkl}	545	567	96	3	91	5	1	1.087	1.1	14	8	4	0	0.8	0.6	3.9	3.1	blocky round to oval type, deeper eyes	
NYU34-6 ^{cl}	544	629	86	13	85	1	1	1.093	1.0	0	10	0	0	1.0	0.3	4.0	3.5	small flat oval type	
WAF17049-2 ^{abefkl}	543	587	92	6	92	0	2	1.100	1.1	18	1	0	0	0.1	0.1	3.4	3.1	lighter skin, slight growth crack, oval type	
AC13125-5W ^l	541	592	91	9	90	1	0	1.057	1.0	13	7	7	0	0.0	0.8	4.2	1.7	nice bright round appearance	
Petoskey ^{el}	537	581	92	6	92	0	2	1.081	1.3	0	9	0	0	0.7	0.7	4.7	3.0	heavy netted skin, round type, a few compressed tubers	
NYT22-1 ^{cl}	535	580	93	6	91	2	1	1.070	1.0	0	10	0	0	0.7	0.3	3.8	3.5	variable type, light netted skin	
Mackinaw ^{abcefgijkl}	534	595	90	9	89	1	1	1.086	1.1	2	4	5	0	1.0	0.2	3.8	3.3	flat oval type, light netted skin	
AF6894-12 ^l	533	577	92	8	92	0	0	1.076	1.0	0	10	10	0	1.5	0.6	2.7	2.7	light netted skin, round type	
NYU15-8 ^{ef}	533	593	90	8	90	0	2	1.079	1.0	0	30	0	0	0.8	0.3	4.0	3.3	flat oval type, light netted skin	
MSEE207-2 ^{abcef}	532	585	92	6	89	3	2	1.075	1.1	0	4	0	0	0.2	0.8	4.1	3.4	blocky round type, medium netted skin, slight sheep nose	
AF6892-6 ^k	527	571	92	8	92	0	0	1.076	1.0	0	0	0	0	0.5	0.2	2.5	2.0	round to oblong blocky type, netted skin	
AF6969-3 ^l	526	552	95	4	87	8	1	1.063	2.0	3	7	3	0	0.3	0.7	3.3	2.7	bright blocky round type	
MSDD372-07 ^{fgl}	520	579	89	11	89	0	0	1.091	1.0	1	3	6	0	1.1	0.5	3.6	3.7	blocky round type, consistent appearance and shape	
MSAA076-6 ^{abcefgkl}	520	594	87	10	87	0	3	1.087	1.2	4	9	3	1	0.9	0.3	3.7	3.2	small round uniform type, growth cracks, deeper eyes	
MSGG242-1 ^{abcef}	517	613	83	15	83	0	2	1.081	1.6	0	10	52	0	0.2	0.8	3.7	3.0	attractive small round type, good appearance	
AF6552-2 ^{egj}	516	560	91	8	88	3	1	1.076	1.0	0	0	0	3	0.8	0.2	3.3	3.7	light netted skin, blocky round type	
AR2018-07 ^{afk}	513	586	87	12	87	0	1	1.076	1.5	10	7	13	0	1.7	0.4	3.8	2.8	small type, dark skin, slight growth crack	
Lamoka^{acefjkl}	513	572	90	7	88	2	3	1.080	1.0	2	16	8	0	1.4	0.3	4.4	2.9	oval to pointed tubers, some deeper eyes, netted skin	
AF6878-15 ^l	504	555	91	6	91	0	3	1.086	1.0	0	7	0	0	1.0	0.8	4.0	3.2	misshapen pickouts, flat round type	
AF6872-11 ^k	501	589	85	12	85	0	3	1.090	1.5	0	0	0	0	1.5	0.2	2.5	2.5	netted skin, blocky round type, pitted scab	
B3379-2 ^{bd}	497	560	89	10	89	0	1	1.089	1.3	40	0	0	0	0.8	0.2	4.8	3.3	light purple eyes, variable type	
NC470-3 ^{bdk}	494	544	91	7	91	0	2	1.090	1.3	23	3	0	0	0.5	0.3	2.8	3.8	severe skinning, sticky stolons, growth cracks	
AF6665-3 ^{abefkl}	494	572	85	14	85	0	1	1.077	1.1	2	6	2	2	1.0	0.3	3.6	3.0	flat oval type, some pointed tubers	
B3403-6 ^d	491	544	90	10	90	0	0	1.093	1.0	0	0	0	0	2.0	0.0	4.0	3.5	nice type and appearance, scab susceptible	

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 ^{abcddefghijk}	489	584	82	18	82	0	0	1.085	1.2	1	5	1	1	1.3	0.4	3.7	3.0	uniform blocky round type, moderate skinning	
Snowden^{abdefghijkl}	486	560	85	14	85	0	1	1.086	1.2	4	20	3	0	1.4	0.4	3.9	3.0	flat round type, some pink eyes, trace sticky stolons	
AF6671-10 ^{abefi}	479	522	92	7	92	0	1	1.080	1.1	0	4	2	2	0.3	0.7	3.6	2.5	flat round type, moderate skinning	
MSBB230-1 ^{gl}	474	525	91	8	90	1	1	1.082	1.0	0	19	0	0	0.6	0.8	3.2	2.8	round blocky type, some pitted scab	
B3379-6 ^{bdk}	470	543	86	14	85	1	0	1.086	1.8	13	0	0	3	0.7	0.5	3.5	2.5	purple eyes, blocky round type	
AF6652-3 ^{befkl}	469	519	90	8	90	0	2	1.078	1.1	3	20	0	0	0.4	1.4	3.1	2.8	bright skin, variable type	
AF6978-1 ^l	464	516	90	7	88	2	3	1.073	1.0	10	7	0	0	1.2	1.7	3.0	3.5	large flat type, skinning	
AF6655-1 ^{abefkl}	461	509	90	8	90	0	2	1.076	1.1	8	23	0	0	0.6	0.3	3.4	2.8	blocky round type, heavy netted skin	
Dundee ^{befgl}	457	506	90	6	90	0	4	1.096	1.1	4	3	0	0	0.6	0.2	3.4	3.2	growth crack, oval type	
AF5933-4 ^{abcddefgkl}	447	518	83	16	83	0	1	1.085	1.0	3	7	0	0	1.5	0.3	3.4	2.2	smaller round uniform type	
Bliss ^{acefgij}	443	515	84	15	84	0	1	1.081	1.0	0	6	0	0	0.6	0.2	3.9	2.7	small round type, bright skin, trace points	
MSDD247-11 ^{acfgl}	443	487	90	8	90	0	2	1.089	1.0	0	5	0	2	0.5	0.0	4.1	2.7	deeper eyes, attractive round type	
Mystere ^{abcddefgkl}	439	547	78	21	78	0	1	1.072	1.1	0	16	0	0	1.5	0.2	3.4	2.6	bright light skin, flat round to oval type	
MSDD244-05 ^{gl}	438	467	95	3	71	24	2	1.078	1.0	0	7	0	0	0.3	0.1	2.8	3.0	round flat type, deeper apical eyes	
B3012-1 ^{bdk}	437	557	79	20	79	0	1	1.073	1.2	0	0	0	0	0.7	0.6	3.0	2.3	variable oval type, netted skin	
Atlantic^{bdk}	433	488	90	8	89	1	2	1.080	1.5	23	7	3	0	1.5	0.5	3.7	2.7	slight skinning, round to pointed tubers	
MSBB058-1 ^{cfgl}	426	459	93	6	93	0	1	1.088	1.0	0	8	0	0	0.4	0.1	3.0	3.3	blocky round type, moderate skinning	
AF6883-15 ^l	424	483	88	11	87	1	1	1.070	1.0	0	7	3	0	0.7	0.3	3.8	1.5	variable appearance and skin finish	
TX19009-2W ^l	423	532	79	18	79	0	3	1.070	1.0	3	10	0	0	1.8	0.1	3.8	2.7	smaller size profile, slight growth crack	
MSBB610-13 ^{adk}	422	458	92	7	91	1	1	1.075	1.3	0	0	0	0	0.7	0.0	2.5	2.3	large round blocky type, growth cracks	
NC821-30 ^{bdk}	422	501	83	14	83	0	3	1.092	1.2	7	0	0	0	0.3	0.1	3.0	3.3	blocky round type, heavy netted skin	
AF6980-1 ^l	421	511	82	14	82	0	4	1.068	1.0	0	0	0	0	0.2	1.6	3.5	1.7	pointed tubers, variable skin and type	
B3306-2 ^{bdk}	419	506	83	17	83	0	0	1.078	1.7	0	0	0	10	0.8	1.1	4.0	2.3	oval to oblong type, light yellow flesh	
AF6898-1 ^l	415	510	82	16	82	0	2	1.068	1.0	5	20	0	0	0.3	1.4	3.5	2.2	pointed tubers, trace heat knobs	
NYU44-7 ^{cf}	413	452	91	9	91	0	0	1.087	1.0	20	5	0	0	1.3	0.3	4.0	3.3	medium netted skin, round type	
AF6883-8 ^l	413	470	88	12	88	0	0	1.077	1.0	3	7	0	0	1.2	0.3	4.5	2.2	light netted skin, flat oval type	
MSEE031-3 ^{fgl}	411	463	88	9	88	0	3	1.083	1.0	2	10	10	2	0.7	0.3	3.7	2.4	variable shape, some scab	
AF6165-9 ^{befghkl}	411	481	85	14	85	0	1	1.085	1.1	33	8	1	2	2.0	0.3	3.9	2.7	variable shape, flat type	
NY177 ^{gh}	398	488	82	17	82	0	1	1.096	1.0	0	4	0	0	1.8	0.6	3.5	3.0	medium netted skin, uniform type	
WAF17045-2 ^{abefkl}	395	449	88	11	87	1	1	1.078	1.3	18	2	3	0	0.3	0.3	3.6	2.9	small round type, moderate skinning, heavy skin	
MSDD247-07 ^{acfgl}	393	431	91	8	91	0	1	1.096	1.0	5	8	3	2	1.0	0.1	3.7	2.8	recessed stem end, slight skin	
AF6911-4 ^l	392	485	81	19	81	0	0	1.075	1.0	0	10	3	0	1.5	0.6	3.0	3.0	compressed shape, bright thin skin	
NYU34-5 ^{cf}	384	439	88	12	87	1	0	1.076	1.0	10	20	0	0	1.3	0.7	4.0	2.8	trace of purple blushing around eyes, round blocky type	
B3381-4 ^{bck}	371	533	70	19	70	0	11	1.087	2.3	37	0	0	3	1.2	1.8	4.5	2.5	uniform oval type, light yellow flesh	
AF6979-3 ^l	370	396	93	6	93	0	1	1.063	1.0	0	15	0	0	0.5	0.0	3.3	1.0	variable skin finish	
MSAA260-03 ^{abcddefgkl}	359	421	84	12	83	1	4	1.077	1.2	0	8	4	1	0.9	0.2	3.6	3.1	small flat round type, moderate growth crack	
AF6896-1 ^k	346	441	79	21	79	0	0	1.081	1.5	0	0	0	0	0.5	1.3	2.5	2.5	netted skin, round oblong type	
AF6669-10 ^{abefkl}	339	432	75	25	75	0	0	1.077	1.1	2	12	1	2	0.5	0.1	3.3	2.8	bright skin, small round tubers	
BNC726-5 ^{bdk}	329	426	73	26	73	0	1	1.079	1.2	20	0	0	0	0.8	0.3	3.3	2.8	small round type	
B3471-1 ^d	296	386	77	19	77	0	4	1.073	2.5	0	0	0	0	2.0	3.8	4.0	3.5	oval type, pitted scab, light netted skin	
NYU20-10 ^{ce}	290	355	82	17	82	0	1	1.077	1.0	5	25	0	0	2.0	0.1	4.0	3.3	small round type, some lenticel scarring	
AF6901-8 ^k	229	313	73	26	73	0	1	1.078	1.5	0	10	0	0	0.5	0.2	2.0	2.5	bright skin color, round blocky type	
AF6555-2 ^k	222	336	66	33	66	0	1	1.067	1.0	0	10	0	0	1.0	0.3	2.0	3.0	small type, bright skin, surface scab	
BNC742-2 ^{bdk}	203	268	76	23	76	0	1	1.066	1.3	3	0	0	0	0.3	0.2	3.0	2.0	bright skin, round blocky type	
BNC549-1 ^{bdk}	174	347	50	47	50	0	3	1.078	1.2	0	0	0	0	1.3	0.2	3.2	2.7	smaller oval type	
TX18170-4W ^k	38	131	29	71	29	0	0	1.065	1.0	0	0	0	0	2.0	0.3	2.0	2.5	smaller size profile, slight growth crack	
MEAN	474	539	86	12	85	1	2	1.080	1.2	5	7	2	1	0.9	0.5	3.5	2.9		

2023 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., Storage Trial
- ^fMain Farms, Storage Trial
- ^gMontcalm Research Center Box Bin Trial
- ^hSandyland Farms SNAC Replicated Storage Trial
- ⁱSandyland Farms, Set 1 Storage Trial
- ^jVerbrigghe Farms, Fresh Chip Trial
- ^kWalther Farms, Fresh Trial
- ^lWalther 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)

2023 Storage Chip Processing Potato Variety Trial

4-L Farms

Planting: 5/12/23 Vine Kill: 9/27/23 Harvest: 10/23/23

GDD₄₀: 3848

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					
MSBB630-2	1034	1066	97	3	86	11	0	1.074	1.5	30	10	0	0	0.5	0.6	4.0	3.0	sticky stolons, large tubers, trace virus
MSDD376-4	875	902	97	3	95	2	0	1.083	1.0	10	0	0	0	0.5	0.5	4.5	4.0	darker skin, scurf, sticky stolons
MSDD553-1	860	885	97	3	96	1	0	1.078	1.0	0	10	0	0	0.0	1.0	4.0	3.0	oval type, slight skin cracking
MSBB614-15	784	814	97	3	92	5	0	1.076	1.0	0	0	0	0	1.5	0.3	4.5	4.5	nice netted skin finish, deeper eyes, moderate alligator hide
Mackinaw	775	812	95	5	92	3	0	1.086	1.0	0	0	0	0	0.5	0.7	4.5	3.0	long oval type
AF6675-1	767	848	90	10	90	0	0	1.069	1.0	0	20	0	0	0.5	0.6	4.0	2.5	consistent oval type, darker skin
MSW474-1	764	837	91	8	90	1	1	1.085	1.0	0	10	0	0	0.0	0.4	4.0	3.0	misshapen pickouts, deeper eyes, blocky type, variable skin
NY179	728	769	95	5	94	1	0	1.081	1.5	0	0	0	0	2.0	0.3	4.0	3.0	long oval type, darker netted skin, a few pitted scab lesions
AF6565-8	698	731	96	4	94	2	0	1.085	1.0	0	10	0	0	0.0	0.2	4.0	3.0	deeper eyes, blocky tubers, nice appearance
MSFF038-3	678	735	92	5	92	0	3	1.081	1.0	10	0	0	10	1.5	0.7	4.0	2.5	moderate growth crack, trace scurf, nice shape
MSAA217-3	668	684	97	3	86	11	0	1.090	1.0	0	10	0	0	0.0	0.9	4.5	3.0	slightly flattened round type, moderate sticky stolons
MSEE035-4	666	715	93	2	91	2	5	1.086	1.0	0	0	0	0	1.0	1.0	4.0	3.0	pointed tubers, growth crack, alligator hide
MSDD249-9	632	644	98	2	95	3	0	1.080	1.0	0	10	0	0	0.5	0.6	4.0	2.5	oval to long type, larger tubers, blocky
Lamoka	617	657	94	4	94	0	2	1.078	1.0	0	10	0	0	1.0	0.4	4.5	2.5	oval type, a few pointed tubers
MSEE207-2	603	629	96	4	95	1	0	1.075	1.0	0	0	0	0	0.0	1.0	4.5	3.0	light skin, deeper eyes, moderate sheep nose
Lady Liberty	586	634	92	7	92	0	1	1.072	1.0	0	20	0	0	0.0	0.3	4.0	2.5	nice round type, slight recessed ends
NY174	568	618	92	7	92	0	1	1.083	1.0	0	10	0	0	0.5	0.7	4.0	3.0	variable type, nice bright skin
Snowden	561	604	93	7	93	0	0	1.085	1.5	0	30	0	0	0.0	1.1	4.5	3.0	slightly flaky skin, consistent round type
MSGG242-1	560	633	88	12	88	0	0	1.083	1.0	0	0	100	0	0.0	0.9	4.0	2.5	nice small consistent round type, slight sticky stolons
WAF17049-2	547	556	98	2	98	0	0	1.100	1.0	40	0	0	0	0.0	0.0	4.0	3.0	light skin, oval type, recessed apical eyes
Manistee	544	609	89	11	89	0	0	1.075	1.0	0	0	0	0	0.5	0.1	4.0	3.0	compressed tubers, sheep nose, deep eyes
MSAFB635-15	534	608	88	12	88	0	0	1.084	1.0	0	0	0	0	0.5	0.9	4.0	3.0	blocky oval type, a few compressed tubers
AF6655-1	525	561	94	6	94	0	0	1.078	1.5	0	20	0	0	1.0	0.3	4.0	2.5	oval type, recessed apical ends, thin skin but no skinning
NY163	524	583	90	10	88	2	0	1.076	1.0	0	0	0	0	0.0	0.3	4.0	2.5	bright light skin, round to oval type, nice appearance
MSAA076-6	501	562	89	10	89	0	1	1.088	1.5	0	0	0	0	0.5	0.4	4.5	3.0	alligator hide, skin cracking, growth crack
AF5933-4	495	559	89	11	89	0	0	1.089	1.0	0	20	0	0	0.5	0.7	4.0	2.5	oval to long type, nice appearance
AR2018-07	410	528	78	21	78	0	1	1.066	1.5	0	10	0	0	2.0	0.4	4.5	3.0	dark skin, variable skin finish, small tubers
AF6665-3	385	478	81	19	81	0	0	1.069	1.0	10	0	0	0	1.0	0.6	4.5	4.5	round type, slight skinning
MSDD247-07	375	410	91	9	91	0	0	1.096	1.0	0	10	0	0	1.0	0.2	4.0	2.5	deep eyes, recessed stem ends
MSDD247-11	364	435	84	15	84	0	1	1.083	1.0	0	0	0	10	0.5	0.1	4.5	3.0	slight alligator hide, nice round shape
Mystere	334	459	73	27	73	0	0	1.069	1.0	0	30	0	0	0.0	0.4	4.0	2.5	bright light skin, flat oval type
AF6671-10	324	348	93	7	93	0	0	1.073	1.0	0	0	0	10	0.0	0.5	4.0	4.0	variable skin
MSAA260-03	297	369	81	11	81	0	8	1.079	1.0	0	0	10	0	1.0	0.4	4.0	2.5	severe growth crack, virus, pointed tubers
WAF17045-2	278	336	83	17	81	2	0	1.072	1.0	0	0	0	0	0.5	0.1	4.5	2.5	small round type, darker skin, trace sticky stolons
AF6669-10	222	348	64	36	64	0	0	1.075	1.0	0	10	0	0	0.5	0.1	4.0	2.5	nice small round type
MEAN	574	628	90	9	89	1	1	1.080	1.1	3	7	3	1	0.6	0.5	4.2	2.9	

¹SIZE

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 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
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⁶SED (STEM END DEFECT) SCORE

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⁷VINE VIGOR RATING

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

⁸VINE MATURITY RATING

Date: 8/17/23
 Rating 1-5
 1: Early (vines completely dead)
 5: Late (vigorous vines, some flowering)

FIELD DATA

Planting date	5/12/23
Vine Kill Date	9/27/23
Harvest Date	10/23/23
Days (planting to vine kill)	138
Days (planting to harvest)	164
GDD ₄₀ MAWN Station	Martin
GDD ₄₀ (planting to vine kill)	3848
Seed Spacing	10"

2023 Fresh Chip Processing Potato Variety Trial

Black Gold Farms

Planting: 4/25/23 Vine Kill: N/A Harvest: 8/24/23
GDD₄₀: 3228

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						
MSDD376-4	705	760	93	7	93	0	0	1.087	1.0	30	0	0	0	0.0	0.0	3.0	2.5	flat round type, severe skinning	
AF5933-4	602	656	91	9	91	0	0	1.090	1.0	20	0	0	0	2.0	0.0	1.5	2.5	moderate skinning, round to oval type	
AF6675-1	602	706	85	15	85	0	0	1.074	2.0	0	30	0	0	1.0	0.0	2.0	2.5	flat oval to oblong type, slight skinning	
Mackinaw	599	643	93	7	93	0	0	1.085	1.5	0	0	0	0	0.0	0.0	2.0	3.5	light skinning, nice uniform skin set, good appearance	
NY179	593	645	92	8	92	0	0	1.087	1.0	10	0	0	0	1.0	0.0	2.0	3.0	flat oval type, slight skinning	
Winterset	590	642	92	7	90	2	1	1.091	2.0	0	0	30	0	0.5	0.1	2.0	2.0	round oval type, slight skinning	
AF6665-3	580	651	89	10	89	0	1	1.083	1.5	0	10	0	0	1.5	0.0	2.0	2.5	flat oval type, moderate skinning	
MSBB614-15	534	559	96	3	96	0	1	1.082	1.5	0	0	0	0	0.0	0.0	2.0	3.5	trace alligator hide, flat round oval type	
Snowden	529	561	94	5	94	0	1	1.091	1.5	20	30	0	0	0.5	0.0	2.5	2.5	moderate skinning, trace sticky stolons	
MSDD553-1	524	599	88	12	88	0	0	1.081	1.5	0	0	0	0	1.5	0.0	1.5	3.0	slight skinning	
MSFF038-3	508	555	92	7	92	0	1	1.080	1.5	0	0	0	10	1.0	0.0	1.5	2.5	blocky round type, moderate skinning	
MSEE207-2	501	566	89	11	89	0	0	1.077	1.0	0	0	0	0	0.0	0.0	2.5	3.5	nice uniform type, severe skinning	
AF6669-10	498	553	90	10	90	0	0	1.084	1.5	10	0	0	0	0.5	0.0	1.5	2.5	nice tuber size and shape, slight skinning	
Mystere	493	590	84	16	84	0	0	1.077	1.5	0	0	0	0	1.5	0.0	1.5	2.5	blocky oval type, moderate skinning	
WAF17045-2	490	557	88	11	88	0	1	1.081	2.0	0	0	0	0	0.0	0.0	2.0	2.5	rough blocky type, moderate skinning	
MSAA260-03	485	547	89	7	89	0	4	1.081	2.0	0	0	10	0	1.5	0.0	2.0	2.5	slight growth crack, blocky, moderate skinning, greening	
AF6671-10	482	521	93	7	93	0	0	1.083	1.5	0	0	10	0	0.0	0.0	2.0	2.0	blocky round oval type, moderate skinning	
MSAA076-6	480	556	86	14	86	0	0	1.090	1.5	0	0	0	10	0.5	0.0	2.0	3.0	slight deep apical eyes, moderate skinning	
B3012-1	454	555	82	18	82	0	0	1.076	1.0	0	0	0	0	0.5	0.1	2.0	2.5	nice appearance, flat oval type, trace skinnig	
WAF17049-2	445	509	88	11	88	0	1	1.105	1.5	20	0	0	0	0.0	0.0	1.5	3.5	moderate skinning, flat round type	
B3306-2	443	516	86	14	86	0	0	1.085	1.5	0	0	0	20	1.0	0.6	3.5	2.5	round to oval type, yellow skin cast	
MSAA252-7	430	471	91	9	91	0	0	1.085	1.0	10	0	0	0	1.0	0.0	2.0	3.0	rough blocky type, moderate skinning	
BNC726-5	421	508	83	16	83	0	1	1.087	1.5	0	0	0	0	0.5	0.0	2.0	2.0	non uniform type, slight skinning, trace necrotic virus	
Dundee	410	465	88	9	88	0	3	1.097	1.5	0	0	0	0	0.0	0.0	2.0	3.0	non uniform type, moderate skinning, trace growth cracks	
MSAFB635-15	408	534	76	24	76	0	0	1.088	2.0	0	0	0	0	2.0	0.1	2.0	2.0	moderate skinning, round type	
MSGG242-1	389	510	76	23	76	0	1	1.087	1.5	0	0	50	0	0.0	0.5	2.0	2.5	small round to oval type, moderate skinning	
Atlantic	385	416	93	7	91	2	0	1.080	2.0	50	20	0	0	1.0	0.1	2.0	2.0	slight skinning, slight greening	
MSBB610-13	378	401	94	5	94	0	1	1.073	1.5	0	0	0	0	0.5	0.0	1.5	2.5	large blocky round type, moderate skinning	
NC821-30	376	474	79	18	79	0	3	1.096	1.5	0	0	0	0	0.0	0.0	2.0	3.0	moderate skinning, small uniform type	
NC470-3	361	397	91	7	91	0	2	1.091	1.5	30	0	0	0	0.0	0.0	1.5	3.5	severe skinning	
B3379-6	357	418	85	15	85	0	0	1.093	2.0	10	0	0	0	0.5	0.0	2.5	3.5	purple eyes, moderate skinning	
AF6165-9	354	416	85	15	85	0	0	1.093	1.5	40	0	0	0	1.5	0.0	2.0	3.0	severe skinning, smaller flat type	
BNC742-2	211	255	83	16	83	0	1	1.066	1.5	0	0	0	0	0.0	0.0	2.0	2.0	slight skinning, round type	
BCN549-1	200	405	49	51	49	0	0	1.082	1.5	0	0	0	0	0.5	0.0	2.0	3.0	very small uniform flat type	
MSBB630-2	152	499	31	62	31	0	7	1.077	1.0	0	0	10	0	0.5	0.0	1.5	3.5	trace alligator hide, trace sticky stolons, moderate skinning	
AF6652-3														0.0		2.0	3.0	variety mix, yield data not available	
AF6655-1														0.0		2.0	3.0	variety mix, yield data not available	
B3381-4								1.089		50	0	0	0	0.0		4.5	2.5	uniform round oval small type, golden appearance	
MEAN	456	532	85	14	85	0	1	1.085	1.5	8	3	3	1	0.6	0.0	2.1	2.7		

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)

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 2: Slight stem end defect
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 5: Extreme stem end defect

⁷VINE VIGOR RATING

Date: 6/8/23
 Rating 1-5
 1: Slow emergence
 5: Early emergence (vigorous vines, some flowering)

⁸VINE MATURITY RATING

Date: 8/18/23
 Rating 1-5
 1: Early (vines completely dead)
 5: Late (vigorous vines, some flowering)

FIELD DATA

Planting date	4/25/23
Vine Kill Date	N/A
Harvest Date	8/24/23
Days (planting to vine kill)	N/A
Days (planting to harvest)	121
GDD ₄₀ MAWN Station	Mendon
GDD ₄₀ (planting to vine kill)	3228
Seed Spacing	10"

2023 Storage Chip Processing Potato Variety Trial

Hampton Farms

Planting: 5/17/23 Vine Kill: 10/1/23 Harvest: 10/17/23
GDD₄₀: 3607

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						
MSDD376-4	722	747	97	3	97	0	0	1.087	1.0	10	10	0	0	0.5	0.4	4.0	3.5	flat large blocky type, heavy netted skin, sticky stolons	
NYU34-6	693	725	96	3	95	1	1	1.085	1.0	0	0	0	0	1.5	0.3	4.0	4.0	flat oval type, light netted skin	
MSAFB635-15	692	727	95	5	93	2	0	1.092	1.0	10	10	0	10	1.5	0.1	4.0	3.5	uniform blocky type, light netted skin	
MSBB630-2	685	718	95	4	92	3	1	1.078	1.0	0	0	0	0	0.5	0.4	4.0	3.5	prominent lenticels, light netted skin, trace sticky stolons	
AF6206-3	673	694	97	3	96	1	0	1.085	1.0	0	0	0	0	1.5	0.1	4.0	3.0	round to oval type, light netted skin	
MSW474-1	662	729	91	9	91	0	0	1.085	1.0	0	10	0	0	0.0	0.2	4.5	3.5	deeper apical eyes, light netted skin, blocky round tubers	
AF6200-4	647	677	96	3	92	4	1	1.080	1.0	0	0	0	0	0.0	0.1	4.0	3.5	flat blocky type, light netted skin	
AF6565-8	627	692	91	8	91	0	1	1.084	1.0	0	20	0	0	1.5	0.1	4.0	3.5	blocky round type, medium netted skin	
MSDD247-11	588	615	96	3	96	0	1	1.092	1.0	0	10	0	0	1.0	0.0	4.0	3.5	block round type, medium netted skin, trace growth crack	
Manistee	579	607	95	4	95	0	1	1.079	1.0	0	20	0	0	1.5	0.0	4.0	3.5	compressed shape, heavy netted skin, deep apical eyes	
NY179	575	594	97	3	97	0	0	1.081	1.0	0	10	0	0	1.5	0.3	4.0	3.5	light netted skin, blocky round type	
NYT22-1	529	579	92	8	90	2	0	1.072	1.0	0	20	0	0	1.0	0.1	4.0	4.5	variable type, light skin	
MSDD553-01	523	578	91	7	91	0	2	1.076	1.0	0	30	0	0	0.5	0.2	4.0	3.5	deeper apical eyes, blocky round type, light netted skin	
MSAA217-3	504	518	97	3	97	0	0	1.087	1.0	0	20	0	0	0.5	0.5	4.5	3.5	round to oval type, medium netted skin	
B3403-6	491	544	90	10	90	0	0	1.093	1.0	0	0	0	0	2.0	0.0	4.0	3.5	nice small uniform type, too much scab	
Snowden	487	528	92	8	92	0	0	1.082	1.0	0	30	0	0	2.5	0.3	4.0	3.5	deep pitted scab, heavy netted skin, flat blocky type	
MSGG242-1	483	552	88	10	88	0	2	1.084	1.5	0	10	10	0	0.0	0.4	4.0	3.5	blocky round type, trace sticky stolons, nice appearance	
Bliss	460	521	88	11	88	0	1	1.081	1.0	0	30	0	0	0.0	0.1	4.0	3.5	bright appearance, flat round tuber type	
MSFF038-3	442	494	89	10	89	0	1	1.075	1.0	0	10	0	0	1.0	0.1	4.0	3.0	deep apical eyes, flat round type	
MSBB058-1	427	441	97	3	97	0	0	1.088	1.0	0	20	0	0	0.5	0.0	4.0	3.5	blocky round type, trace skinning	
NYU44-7	427	457	93	7	93	0	0	1.087	1.0	0	10	0	0	0.5	0.4	4.0	3.5	flat blocky type, medium netted skin	
MSDD247-07	420	461	91	8	91	0	1	1.097	1.0	0	30	0	10	1.5	0.0	4.0	3.5	flat round type, light netted skin	
MSAA076-6	411	443	93	6	93	0	1	1.083	1.0	0	30	0	0	1.0	0.4	4.0	4.0	deep apical eyes, severe lenticel scaring	
Lamoka	399	427	93	5	93	0	2	1.080	1.0	0	0	30	0	1.5	0.4	4.0	3.5	flat oval type, not uniform, light netted skin	
NYU34-5	393	442	89	11	88	1	0	1.073	1.0	10	10	0	0	0.5	0.6	4.0	3.0	trace of purple blushing, blocky round type, light netted skin	
AF5933-4	381	436	87	13	87	0	0	1.087	1.0	0	20	0	0	1.5	0.0	4.0	3.5	moderate pit rot, deeper eyes, light netted skin	
B3379-2	381	435	87	11	87	0	2	1.088	1.0	20	0	0	0	0.5	0.3	4.5	3.5	light purple eyes, flat round to oval type, light netted skin	
MSBB614-15	378	384	99	1	97	2	0	1.079	1.0	0	0	0	0	0.0	0.1	4.0	4.5	growth crack, alligator hide, heavy netted skin	
Mystere	377	435	87	12	87	0	1	1.071	1.0	0	20	0	0	2.0	0.0	4.0	3.5	flat round to oval type, light netted skin	
MSEE207-02	377	404	93	6	91	2	1	1.073	1.0	0	0	0	0	0.5		4.5	3.5	blocky round type, medium netted skin	
MSAA260-03	335	393	85	6	82	3	9	1.080	1.0	0	20	0	0	1.5	0.3	4.0	3.5	variable tuber size, deep apical eyes, growth cracks	
AF6165-9	312	370	84	14	83	1	2	1.076	1.0	50	20	0	0	1.5	0.2	4.5	3.5	not uniform, flat round to oval type, light netted skin	
B3471-1	296	386	77	19	77	0	4	1.073	2.5	0	0	0	0	2.0	3.8	4.0	3.5	some pitted scab, light netted skin	
Mackinaw	208	224	93	7	93	0	0	1.081	1.0	0	0	30	0	0.5	0.1	4.0	4.0	not uniform, deeper apical eyes	
NYU20-10	206	258	80	20	80	0	0	1.073	1.0	0	40	0	0	2.0	0.0	4.0	3.5	small round type, lenticel scaring, light netted skin	
MEAN	480	521	91	8	91	1	1	1.082	1.1	3	13	2	1	1.0	0.3	4.1	3.6		

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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	5/17/23
Vine Kill Date	10/1/23
Harvest Date	10/17/23
Days (planting to vine kill)	137
Days (planting to harvest)	153
GDD ₄₀ MAWN Station	Richville/Frankenmuth
GDD ₄₀ (planting to vine kill)	3607
Seed Spacing	10"

2023 Fresh Chip Processing Potato Variety Trial

Lennard Ag. Co.

Planting: 5/15/23 Vine Kill: 9/5/23 Harvest: 9/7/23

GDD₄₀: 3292

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
MSFF038-3	684	727	94	6	94	0	0	1.076	1.0	0	0	0	0	1.5	0.1	4.0	2.5	flat oval type, pointed ends, deep apical eyes, poor appearance
MSAA217-3	658	669	98	2	96	2	0	1.087	1.0	30	0	0	0	1.0	0.1	4.5	3.5	blocky round to oval type, severe skinning, heavy netted skin
B3379-2	614	684	90	10	90	0	0	1.089	1.5	60	0	0	0	1.0	0.1	5.0	3.0	blocky round to oval, moderate skinning, not uniform
B3379-6	612	679	90	9	86	4	1	1.083	1.5	30	0	0	0	1.0	0.3	4.5	2.5	blocky round to oval type, purple eyes, light yellow cast
Winterset	597	633	94	5	94	0	1	1.077	1.0	10	0	0	10	1.0	0.2	4.0	3.0	flat round type
AF6565-8	591	649	91	8	91	0	1	1.079	1.0	0	0	0	0	0.5	0.0	4.0	3.0	flat round to oval type, moderate skinning, not uniform
MSBB630-2	587	620	95	5	86	9	0	1.072	2.0	20	0	0	0	0.5	0.0	4.0	3.0	large blocky round type, severe skinning
Mystere	585	654	89	10	89	0	1	1.070	1.0	0	0	0	0	1.0	0.2	4.0	2.5	flat round to oval type, severe skinning
NC821-30	537	591	91	7	90	1	2	1.083	1.0	20	0	0	0	0.5	0.1	4.0	3.5	blocky round tuber type, heavy netted skin
MSBB610-13	528	568	93	5	90	3	2	1.075	1.0	0	0	0	0	1.0	0.0	4.0	2.5	flat blocky round to oval type, moderate skinning
Mackinaw	513	561	92	7	92	0	1	1.078	1.0	0	0	0	0	0.5	0.1	4.0	3.0	medium netted, blocky round to oval type, not uniform
AF6200-4	507	539	94	4	94	0	2	1.070	1.5	0	0	0	0	0.5	0.0	4.0	3.5	flat oval blocky type, not uniform, moderate skinning
MSAA252-7	504	521	97	3	93	4	0	1.071	1.0	0	0	0	0	1.5	0.0	4.0	4.0	blocky round tuber type, severe skinning
NC470-3	488	544	90	6	90	0	4	1.087	1.0	30	10	0	0	0.5	0.0	4.0	3.5	sticky stolons, severe skinning, not uniform
Snowden	488	551	88	11	88	0	1	1.081	1.0	0	10	0	0	0.5	0.1	4.5	4.0	trace pink eye, moderate skinning
AF5933-4	481	551	87	10	87	0	3	1.078	1.0	10	0	0	0	1.5	0.2	4.0	2.5	uniform smaller round type
MSAA076-6	478	553	87	10	87	0	3	1.079	1.0	0	0	0	0	1.0	0.1	4.0	4.0	small flat oval type, growth cracks, severe skinning, deep apical eyes
B3306-2	477	574	83	16	83	0	1	1.077	1.5	0	0	0	10	1.0	0.4	4.5	2.0	oval type, medium netted, not uniform, light yellow flesh
MSW474-1	471	519	91	9	91	0	0	1.077	1.0	0	0	0	0	0.5	0.0	4.0	3.0	uniform round type, heavy netted skin, moderate skinning
MSAFB635-15	430	487	88	12	88	0	0	1.074	1.5	0	10	0	0	1.5	0.1	4.0	3.0	severe skinning, blocky round type
BNC726-5	428	495	86	13	86	0	1	1.078	1.0	60	0	0	0	1.5	0.0	4.5	3.0	flat round to oval type, not uniform
B3012-1	410	519	79	19	79	0	2	1.071	1.0	0	0	0	0	1.0	0.3	4.0	2.5	flat round to oval type, netted skin, not uniform
MSAA260-03	408	442	93	6	89	4	1	1.075	1.5	0	0	0	10	0.5	0.1	4.0	3.0	flat blocky round tuber, deep apical eyes
Atlantic	398	443	90	9	90	0	1	1.075	1.0	20	0	10	0	1.5	0.2	5.0	3.0	flat round to oval type, moderate skinning
B3381-4	325	531	61	20	61	0	19	1.080	1.5	40	0	0	0	1.0	1.0	5.0	2.5	variable type, severe growth crack
BNC742-2	233	271	86	14	86	0	0	1.071	1.0	10	0	0	0	0.5	0.2	4.0	1.5	not uniform, medium netted skin, small
BNC549-1	205	394	52	44	52	0	4	1.078	1.0	0	0	0	0	0.5	0.3	4.5	2.5	small flat oval type
MEAN	490	554	88	10	87	1	2	1.077	1.2	13	1	0	1	0.9	0.1	4.2	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
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: 6/8/23
Rating 1-5
1: Slow emergence
5: Early emergence (vigorous vines, some flowering)

⁸VINE MATURITY RATING

Date: 8/18/23
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

FIELD DATA

Planting date 5/15/23
Vine Kill Date 9/5/23
Harvest Date 9/7/23
Days (planting to vine kill) 113
Days (planting to harvest) 115
GDD₄₀ MAWN Station Constantine
GDD₄₀ (planting to vine kill) 3292
Seed Spacing 10"

2023 Storage Chip Processing Potato Variety Trial

Lennard Ag. Co.

Planting: 5/15/23 Vine Kill: 9/13/23 Harvest: 10/18/23

GDD₄₀: 3485

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						
MSGG242-1	870	982	89	8	89	0	3	1.066	2.5	0	0	100	0	0.5	1.6	4.5	3.5	variable type, light netted skin	
AF6565-8	860	931	93	3	91	2	4	1.079	1.0	0	0	0	0	1.5	0.1	4.5	3.5	not uniform, flat round to oval type, poor appearance	
AF6206-3	828	880	94	4	93	1	2	1.081	1.0	0	20	0	0	1.5	0.2	4.5	3.5	blocky round to oval type, nice appearance	
NY179	821	886	93	6	92	1	1	1.081	1.0	10	0	0	0	1.5	0.4	4.0	3.0	blocky round to oval type, light netted skin	
MSBB630-2	815	887	92	3	88	4	5	1.078	1.5	20	0	0	0	0.5	0.4	4.0	5.0	blocky round type, misshapen pickouts	
Manistee	801	857	94	5	88	6	1	1.079	1.0	10	0	20	0	0.0	0.6	4.5	2.5	blocky round type, heavy netted skin, deep apical eyes	
MSDD249-9	800	805	99	1	93	6	0	1.081	1.0	10	0	0	0	2.0	1.4	4.5	3.0	large flat round type	
MSDD376-4	797	850	94	6	94	0	0	1.083	1.5	0	10	0	0	0.5	0.4	4.5	4.0	flat blocky round type, heavy netted skin, sticky stolons	
NY174	764	831	92	5	91	1	3	1.082	1.0	0	0	0	0	0.0	0.1	4.0	3.0	flat blocky round to oval type, heavy netted skin	
MSDD553-1	744	802	93	4	90	3	3	1.071	1.0	10	20	0	0	1.5	0.9	4.0	3.5	blocky flat round type, light netted skin	
AF6675-1	725	828	88	9	88	0	3	1.072	1.0	0	20	10	0	1.5	0.5	4.5	2.5	blocky round to oval type, heavy netted skin	
MSBB614-15	719	781	92	3	90	2	5	1.076	1.0	10	0	0	0	1.0	0.5	4.0	4.0	heavy netted skin, alligator hide, growth cracks	
AF6552-2	712	741	96	2	86	10	2	1.076	1.0	0	0	0	0	1.0	0.3	4.0	3.5	large blocky round to oval type, light netted skin	
MSEE207-2	707	802	89	2	79	10	9	1.071	1.5	0	10	0	0	0.5	1.8	4.5	4.0	blocky round to oval type, growth crack and misshapen tubers	
AF6200-4	692	761	91	3	90	1	6	1.075	1.0	0	10	0	0	1.0	0.3	4.5	3.5	flat blocky round to oval type, poor appearance	
Lamoka	691	764	91	1	90	1	8	1.075	1.0	0	20	0	0	1.5	0.3	4.5	3.0	many pointed tubers, flat oval type, deep apical eyes	
MSW474-1	658	718	92	7	90	2	1	1.077	1.0	0	0	0	0	0.0	0.3	4.5	3.0	blocky round type, heavy netted skin, deep apical eyes	
AF6652-3	646	717	90	4	90	0	6	1.075	1.5	10	20	0	0	0.5	2.2	4.0	3.0	apical heat stress, knobs, variable type	
MSAA217-3	643	657	98	1	85	13	1	1.080	1.0	70	0	0	0	1.0	0.5	4.5	3.0	large blocky round type, heavy netted skin, sticky stolons	
WAF17049-2	642	676	95	5	95	0	0	1.098	1.0	5	0	0	0	0.0	0.1	4.5	3.5	light netted skin	
Snowden	638	718	89	8	89	0	3	1.087	1.0	10	20	0	0	1.5	0.4	4.5	3.5	flat round type, medium netted skin	
MSAA076-6	631	770	82	8	82	0	10	1.086	1.5	0	10	10	0	2.0	0.5	4.5	3.0	poor appearance, deep apical eyes	
MSFF038-3	605	665	91	4	90	1	5	1.078	1.5	20	0	0	0	1.5	0.6	4.0	3.0	deep apical eyes, flat round type	
AF6671-10	586	648	90	8	90	0	2	1.080	1.0	0	0	0	0	1.0	1.5	4.0	2.5	flat round type, medium netted skin	
Dundee	576	650	89	2	87	2	9	1.093	1.0	20	0	0	0	0.5	0.2	4.5	3.5	medium netted skin, blocky round to oval type, not uniform	
MSAFB635-15	574	659	87	12	86	1	1	1.082	1.0	0	10	0	0	2.0	0.4	4.5	3.0	moderate alligator hide, round type	
AF6655-1	572	603	95	2	94	1	3	1.080	1.0	0	20	0	0	0.5	0.1	4.0	3.0	blocky round type, heavy netted skin	
Mackinaw	552	662	83	13	83	0	4	1.084	1.0	0	20	0	0	1.0	0.1	4.5	3.0	flat oval type, medium netted skin	
AF6665-3	550	593	93	7	93	0	0	1.074	1.0	0	10	0	0	2.0	0.3	4.5	2.5	flat round to oval type, not uniform	
Petoskey	525	564	93	5	93	0	2	1.083	1.5	0	0	0	0	1.0	0.9	5.0	3.5	heavy netted skin, round to oval type	
AF5933-4	506	561	90	9	90	0	1	1.086	1.0	0	0	0	0	1.5	0.2	4.0	2.5	nice type and appearance	
NYU15-8	479	528	91	6	91	0	3	1.071	1.0	0	20	0	0	1.0	0.3	4.0	4.0	flat round to oval type, light netted skin	
Mystere	467	548	85	8	85	0	7	1.071	1.0	0	20	0	0	1.5	0.5	4.0	3.0	flat round to oval type, poor appearance	
Bliss	407	489	83	14	83	0	3	1.076	1.0	0	0	0	0	0.0	0.3	4.0	3.0	pointed tubers, not uniform, purple skin blushing, flat oval type	
WAF17045-2	404	446	91	7	91	0	2	1.077	2.0	50	0	20	0	0.5	1.1	4.0	4.0	small blocky round type, medium netted skin	
NYU20-10	374	452	83	16	83	0	1	1.081	1.0	10	10	0	0	2.0	0.1	4.0	3.0	flat round to oval type, not uniform, light netted skin	
AF6669-10	331	411	81	18	81	0	1	1.074	1.0	0	20	0	0	1.0	0.4	4.0	2.5	variable tuber type	
MSAA260-03	246	299	82	15	82	0	3	1.068	1.0	0	20	0	0	2.0	0.1	4.5	4.5	small round type, growth cracks	
MEAN	631	695	90	6	89	2	3	1.079	1.2	7	8	4	0	1.1	0.5	4.3	3.3		

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

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(percent of tubers out of 10)

HH: Hollow Heart
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 3.0: Pitted lesions common on tubers
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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: 6/28/23
 Rating 1-5
 1: Slow emergence
 5: Early emergence (vigorous vines, some flowering)

⁸VINE MATURITY RATING

Date: 8/18/23
 Rating 1-5
 1: Early (vines completely dead)
 5: Late (vigorous vines, some flowering)

FIELD DATA

Planting date	5/15/23
Vine Kill Date	9/13/23
Harvest Date	10/18/23
Days (planting to vine kill)	121
Days (planting to harvest)	156
GDD ₄₀ MAWN Station	Constantine
GDD ₄₀ (planting to vine kill)	3485
Seed Spacing	10"

2023 Storage Chip Processing Potato Variety Trial

Main Farms

Planting: 5/22/23 Vine Kill: 9/10/23 Harvest: 10/11/23

GDD₄₀: 2960

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	671	733	92	7	92	0	1	1.082	1.0	0	20	0	0	2.0	0.3	4.0	3.0	round type, light netted skin, slight silver scurf	
Mackinaw	657	700	94	4	94	0	2	1.095	1.0	20	20	0	0	1.0	0.2	4.0	3.5	flat round type, light netted skin, moderate black dot	
Lady Liberty	611	686	89	10	89	0	1	1.084	1.0	10	20	0	0	0.0	0.0	4.0	3.0	flat round to oval type, medium netted skin	
MSAA217-3	599	626	95	4	93	2	1	1.092	1.0	10	20	0	0	1.5	0.3	4.0	3.0	blocky round to oval type, deeper eyes	
NYU15-8	587	658	89	11	89	0	0	1.088	1.0	0	40	0	0	0.5	0.2	4.0	2.5	blocky round type	
MSDD372-07	581	642	90	10	90	0	0	1.090	1.0	0	0	0	0	1.0	0.1	4.0	3.0	blocky round type, nice uniform type	
MSDD376-4	576	601	96	4	96	0	0	1.091	1.0	40	30	0	0	1.0	0.4	4.5	3.0	flat round to oval type, heavier netted skin	
MSW474-1	557	675	82	16	82	0	2	1.092	1.0	0	30	16	0	0.0	0.3	4.6	3.0	uniform blocky round type, deeper apical eyes, trace rhizoctonia	
Bliss	553	609	91	8	91	0	1	1.094	1.0	0	0	0	0	0.5	0.1	4.5	2.5	small blocky round type, slight silver scurf	
AF6675-1	527	632	83	16	83	0	1	1.078	1.0	0	20	0	0	2.0	0.2	4.5	2.5	small flat round to oval type, moderate black dot	
MSEE035-4	514	610	84	14	84	0	2	1.097	1.0	10	10	0	0	0.5	0.4	4.5	3.0	flat round type, slight netted skin	
MSBB630-2	512	568	90	10	90	0	0	1.084	1.5	20	0	0	0	0.5	0.1	4.0	4.0	medium round type	
AR2018-07	496	544	91	8	91	0	1	1.083	1.5	30	10	40	0	2.0	0.2	4.0	3.0	blocky round type, severe silver scurf	
MSAFB635-15	495	599	83	17	83	0	0	1.091	1.0	0	0	0	0	0.5	0.1	4.5	3.0	small round uniform type, medium netted skin	
MSFF038-3	492	523	94	6	93	1	0	1.086	1.5	20	0	0	0	0.5	0.4	4.5	3.0	round blocky type, deeper apical eyes	
MSBB614-15	479	517	93	3	93	0	4	1.084	1.0	0	0	0	0	0.0	0.4	4.0	3.0	blocky round type, larger tuber type	
MSEE207-02	474	525	90	9	90	0	1	1.078	1.0	0	10	0	0	0.0	0.5	4.5	3.0	flat blocky round to oval type, medium netted skin	
MSDD247-11	467	520	90	5	90	0	5	1.094	1.0	0	0	0	0	0.0	0.0	4.5	3.0	deep apical eyes, trace alligator hide	
AF6671-10	465	501	93	6	93	0	1	1.094	1.0	0	20	0	0	0.0	0.3	4.0	2.5	blocky round to oval type, lot of black dot or silver scurf	
MSDD247-07	459	513	90	8	90	0	2	1.101	1.0	10	0	0	0	1.5	0.0	4.0	2.5	flat blocky round type, medium netted skin	
Mystere	459	588	78	20	78	0	2	1.079	1.0	0	40	0	0	2.0	0.1	4.0	2.5	flat round to oval type, light netted skin, severe black dot or silver scurf	
Snowden	455	524	87	12	87	0	1	1.087	1.0	0	50	0	0	1.0	0.2	4.5	2.5	not uniform, medium netted skin, moderate black dot or silver scurf	
NY174	455	536	85	9	85	0	6	1.091	1.0	0	20	0	0	0.5	0.4	4.0	3.0	flat round to oval type, slight black dot or silver scurf, pointed tubers	
AF6165-9	453	533	85	11	85	0	4	1.083	1.0	60	10	0	10	2.0	0.2	4.5	3.0	not uniform, flat round to oval, severe black dot or silver scurf	
AF6565-8	441	497	89	11	89	0	0	1.087	1.0	0	10	0	0	0.5	0.0	4.5	3.0	flat round tuber, medium netted skin, slight skinning	
MSAA076-6	431	492	87	11	87	0	2	1.092	1.0	0	10	0	0	1.0	0.2	4.5	2.5	round uniform type, light netted skin, slight black dot or silver scurf	
Manistee	422	481	88	12	88	0	0	1.087	1.0	0	20	0	0	2.0	0.0	4.5	2.5	compressed flat round type, medium netted skin	
Lamoka	422	482	87	8	87	0	5	1.086	1.0	10	40	0	0	0.5	0.3	4.5	3.0	slight skinning, slight black dot or silver scurf, pointed tubers	
NYU44-7	400	447	89	11	89	0	0	1.086	1.0	40	0	0	0	2.0	0.2	4.0	3.0	small round type, medium netted skin	
Dundee	397	435	91	6	91	0	3	1.095	1.0	0	10	0	0	0.5	0.1	4.5	2.5	flat round type, medium netted skin	
NYU34-6	395	533	74	25	74	0	1	1.101	1.0	0	20	0	0	0.5	0.3	4.0	3.0	flat round type, light netted skin, moderate black dot or silver scurf	
AF6655-1	391	433	90	9	90	0	1	1.079	1.0	40	40	0	0	0.5	0.3	4.0	2.5	round blocky type, medium netted skin	
NYU34-5	375	437	86	14	86	0	0	1.079	1.0	10	30	0	0	2.0	0.7	4.0	2.5	small blocky round type, light netted skin	
MSEE031-03	375	433	87	11	87	0	2	1.088	1.0	0	30	0	0	1.0	0.3	4.0	3.0	round type, light netted skin, moderate black dot or silver scurf	
WAF17045-2	372	445	83	13	83	0	4	1.083	1.0	60	0	0	0	0.0	0.1	4.5	3.0	poor appearance, moderate black dot or silver scurf	
MSBB058-1	370	416	89	10	89	0	1	1.092	1.0	0	10	0	0	0.5	0.1	4.0	3.0	blocky round type, medium netted skin	
WAF17049-2	367	430	85	10	85	0	5	1.101	1.0	40	0	0	0	0.0	0.2	4.0	3.0	flat round to oval type, light netting, slight black dot or silver scurf	
AF6652-3	320	369	87	12	87	0	1	1.089	1.0	0	50	0	0	0.5	0.5	4.0	3.0	not uniform, medium netted skin	
AF6669-10	303	379	80	20	80	0	0	1.088	1.0	0	20	0	10	0.5	0.0	4.0	2.5	small blocky round type, light netted skin	
MSGG242-1	283	387	73	25	73	0	2	1.085	1.5	0	40	0	0	0.5	0.4	4.0	3.0	flat round type, lenticel scarring, not uniform	
MSAA260-03	235	316	74	23	74	0	3	1.074	1.0	0	10	0	0	0.5	0.3	4.5	4.0	small round blocky type, light netted skin	
AF5933-4	223	345	65	34	65	0	1	1.089	1.0	0	10	0	0	1.0	0.3	4.0	2.0	small uniform type, light netted skin, moderate black dot or silver scurf	
AF6665-3	221	342	65	34	65	0	1	1.085	1.0	0	0	0	0	0.5	0.0	4.0	2.5	small round type, medium netted skin, light purple blush eyes	
MEAN	450	518	86	12	86	0	2	1.088	1.0	10	17	1	0	0.8	0.2	4.2	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
 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: 7/5/23
 Rating 1-5
 1: Slow emergence
 5: Early emergence (vigorous vines, some flowering)

8VINE MATURITY RATING

Date: 8/14/23
 Rating 1-5
 1: Early (vines completely dead)
 5: Late (vigorous vines, some flowering)

FIELD DATA

Planting date	5/22/23
Vine Kill Date	9/10/23
Harvest Date	10/11/23
Days (planting to vine kill)	111
Days (planting to harvest)	142
GDD ₄₀ MAWN Station	Entrican
GDD ₄₀ (planting to vine kill)	2960
Seed Spacing	10"

2023 Storage Chip Processing Potato Variety Trial Montcalm Research Center Box Bin

Planting: 5/9/23 Vine Kill: 9/10/23 Harvest: 9/26/23 and 9/27/23
GDD₄₀: 3189

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	613	666	92	6	92	0	2	1.083	1.0	0	0	0	0	2.5	0.2	3.5	2.0	flat round to oval type, non uniform type	
MSDD553-1	575	600	96	3	95	1	1	1.084	1.0	0	0	0	0	2.0	0.2	3.0	4.0	blocky flat round type, deep apical eyes, light netted skin	
MSBB630-2	562	589	95	4	92	3	1	1.082	1.0	0	0	0	0	0.5	0.2	3.0	4.5	round blocky type, some surface scab, large tubers	
MSDD376-4	500	561	89	10	89	0	1	1.092	1.0	0	10	20	0	1.0	0.4	4.0	3.0	nice round flat type, some pitted scab	
MSDD249-9	471	481	98	1	95	3	1	1.085	1.0	0	0	0	0	2.5	0.1	3.0	3.0	large flat blocky type, light netted skin	
MSBB058-1	464	501	93	6	93	0	1	1.091	1.0	0	0	0	0	0.0	0.2	2.5	4.0	moderate skinning, blocky tuber type	
MSBB614-15	432	464	93	2	89	4	5	1.080	1.0	20	0	0	0	0.5	0.1	3.0	4.0	moderate growth crack, dark netted skin, blocky round tuber type	
MSBB230-1	431	482	89	10	89	0	1	1.086	1.0	0	30	0	0	1.0	0.4	3.0	3.5	round blocky type, slight pitted scab	
NY179	429	475	90	10	90	0	0	1.082	1.0	10	0	0	0	3.0	0.1	3.0	2.5	blocky round type, medium netted skin	
MSAFB635-15	420	494	85	15	85	0	0	1.092	1.0	0	0	0	0	2.0	0.3	3.5	2.5	round blocky type, pitted scab	
MSAA260-03	404	439	92	6	92	0	2	1.085	1.0	0	0	20	0	0.0	0.4	3.5	2.5	round flat type, slight growth crack	
AF6552-2	383	416	92	8	92	0	0	1.076	1.0	0	0	0	10	1.0	0.0	3.0	4.0	blocky round type, light netted skin	
MSEE031-3	376	431	87	7	87	0	6	1.084	1.0	0	0	20	0	0.5	0.4	3.5	2.0	surface scab, blocky oblong type	
Dundee	375	403	93	7	93	0	0	1.104	1.0	0	0	0	0	1.0	0.1	3.0	4.0	round oblong type	
MSDD372-07	368	424	87	12	87	0	1	1.096	1.0	0	0	0	0	1.5	0.1	3.5	4.5	small blocky round tpe, medium netted skin	
MSAA217-3	354	376	94	6	94	0	0	1.095	1.0	0	0	20	0	1.0	0.5	3.0	3.5	slight pitted scab, round blocky type	
MSDD244-05	349	372	94	3	47	47	3	1.084	1.0	0	10	0	0	0.0	0.1	2.5	3.0	round flat blocky type, deep apical eyes	
MSAA076-6	335	407	82	17	82	0	1	1.095	1.0	10	20	0	0	0.5	0.2	3.0	3.0	round blocky type	
MSW474-1	332	438	76	23	76	0	1	1.091	1.0	0	0	10	0	0.0	0.2	4.0	3.5	moderate rhizoctonia, round blocky type	
AF6165-9	324	390	83	16	83	0	1	1.091	1.0	20	0	0	0	2.5	0.5	4.0	1.5	flat round to oval type, light netted skin	
NY177	315	374	84	15	84	0	1	1.098	1.0	0	0	0	0	1.0	0.6	3.0	2.5	medium netted skin, uniform type	
Mackinaw	312	352	89	10	89	0	1	1.092	1.0	0	0	0	0	1.5	0.1	3.0	3.5	variable type, flat oval type, deep apical eyes	
AF6200-4	269	292	92	7	92	0	1	1.081	1.0	0	0	0	0	3.0	0.1	3.0	2.0	flat round type, larger tuber size	
AF6565-8	268	295	91	8	91	0	1	1.090	1.0	0	0	0	0	2.0	0.0	3.0	2.0	round to oval type, heavy netted skin	
Bliss	264	336	79	20	79	0	1	1.084	1.0	0	0	0	0	2.0	0.0	2.5	2.5	small round uniform type, light buff skin	
MSDD247-11	263	303	87	12	87	0	1	1.095	1.0	0	10	0	0	0.5	0.0	3.5	1.5	round flat tubers	
MSDD247-07	247	271	91	9	91	0	0	1.100	1.0	0	0	0	0	1.0	0.1	3.0	3.0	round flat type	
Snowden	216	346	62	36	62	0	2	1.084	1.0	10	0	0	0	4.0	0.1	3.0	1.0	round blocky type, severe scab	
AF5933-4	157	273	58	41	58	0	1	1.084	1.0	0	0	0	0	3.5	0.1	3.0	1.0	smaller round type, light buff skin type	
Mystere	128	288	44	56	44	0	0	1.072	1.0	0	0	0	0	3.0	0.1	3.0	1.0	flat oblong type, smaller tubers	
MEAN	364	418	86	13	84	2	1	1.088	1.0	2	3	3	0	1.5	0.2	3.2	2.8		

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

⁸**VINE MATURITY RATING**

Date: 8/28/23
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

FIELD DATA

Planting date 5/9/23
Vine Kill Date 9/10/23
Harvest Date 9/26 and 9/27/23
Days (planting to vine kill) 124
Days (planting to harvest) 140
GDD₄₀ MAWN Station Entrican
GDD₄₀ (planting to vine kill) 3189
Seed Spacing 10"

2023 Replicated Storage Chip Processing Potato Variety Trial Potatoes USA SNAC Trial at Sandyland Farms

Planting: 5/17/23 Vine Kill: 9/4/23 Harvest: 10/10/23

GDD₄₀: 2893

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						
AF6200-4	594	627	95	5	94	1	0	1.080	1.0	3	0	0	0	2.5	0.2	4.0	3.0	flat round to oval less uniform type, medium netted skin	
MSAFB635-15	544	624	87	13	87	0	0	1.087	1.0	7	13	0	0	2.2	0.7	4.0	3.0	medium netted skin	
Snowden	521	588	89	11	88	0	1	1.085	1.0	0	20	0	0	3.0	0.6	4.0	2.5	flat type, medium netted skin, deep apical eyes	
NY174	497	577	86	13	86	0	1	1.079	1.0	0	0	0	0	2.0	0.6	4.0	3.5	flat round to oval type, medium to heavy netted skin	
Lamoka	488	527	93	6	93	0	1	1.083	1.0	3	10	17	0	2.2	0.2	4.0	2.5	flat round to oval type, light netted skin	
NY177	481	602	80	20	80	0	0	1.095	1.0	0	7	0	0	2.5	0.6	4.0	3.5	flat round to oval type, light to medium netted skin	
AF6165-9	402	466	86	14	86	0	0	1.085	1.0	27	0	3	7	3.3	0.2	4.5	3.0	blocky round type, light netted skin	
MEAN	504	573	88	12	88	0	0	1.085	1.0	6	7	3	1	2.5	0.4	4.1	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

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: 6/26/23
Rating 1-5
1: Slow emergence
5: Early emergence (vigorous vines, some flowering)

⁸VINE MATURITY RATING

Date: 8/28/23
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

FIELD DATA

Planting date 5/17/23
Vine Kill Date 9/4/23
Harvest Date 10/10/23
Days (planting to vine kill) 110
Days (planting to harvest) 146
GDD₄₀ MAWN Station Entrican
GDD₄₀ (planting to vine kill) 2893
Seed Spacing 10"

2023 Storage Chip Processing Potato Variety Trial Sandyland Set 1

Planting: 5/17/23 Vine Kill: 9/4/23 Harvest: 10/10/23
GDD₄₀: 2893

LINE	CWT/A		PERCENT OF TOTAL ¹					RAW TUBER QUALITY ³ (%)					COMMON SCAB RATING ⁴	VINE VIGOR ⁵	VINE MATURITY ⁶	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP GR ²	HH	VD	IBS	BC				
Bliss	559	628	89	9	89	0	2	1.085	0	0	0	0	2.0	4.0	3.0	flat oval pointed type, light netted skin, trace purple blushing on apical end
Mackinaw	609	690	88	11	88	0	1	1.089	0	0	0	0	1.5	4.0	3.5	flat round to oval type, medium netted skin, not uniform
MSAFB635-15	510	572	89	11	89	0	0	1.087	0	10	0	0	2.0	4.0	4.0	
MSBB630-2	566	620	91	8	91	0	1	1.081	0	10	0	10	1.0	4.0	2.5	blocky round type, light netted skin, nice appearance
NY179	447	535	84	16	84	0	0	1.077	0	10	0	0	3.0	4.0	2.0	flat round to oval type, light to medium netted skin
MEAN	538	609	88	11	88	0	1	1.084	0	6	0	2	1.9	4.0	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

³RAW TUBER

(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: 6/26/23
Rating 1-5
1: Slow emergence
5: Early

⁶VINE MATURITY RATING

Date: 8/28/23
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

FIELD DATA

Planting date 5/17/23
Vine Kill Date 9/4/23
Harvest Date 10/10/23
Days (planting to vine kill) 110
Days (planting to harvest) 146
GDD₄₀ MAWN Station Entrican
GDD₄₀ (planting to vine kill) 2893
Seed Spacing 10"

2023 Chip Processing Potato Variety Trial

Verbrigghe Potato Farms

Planting: 6/6/23 Vine Kill: 9/8/23 Harvest: 10/10/23

GDD₄₀: 2275

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
Lamoka	456	600	76	24	63	13	0	1.080	0	20	10	0	3.0	5.0	3.5
Mackinaw	420	561	75	24	68	7	1	1.091	0	0	0	0	2.0	5.0	4.0
Snowden	370	552	67	32	67	0	1	1.091	0	0	20	0	0.5	4.5	3.0
NY163	224	350	64	33	64	0	3	1.083	0	0	0	0	0.0	5.0	2.5
MSAFB635-15	198	395	50	50	50	0	0	1.086	0	0	0	0	0.0	4.5	4.0
MEAN	334	492	66	33	62	4	1	1.086	0	4	6	0	1.1	4.8	3.4

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: 7/28/23
 Rating 1-5
 1: Slow emergence
 5: Early emergence

FIELD DATA

Planting Date	6/6/23
Vine Kill Date	9/8/23
Harvest Date	10/10/23
Days (planting to vine kill)	94
Days (planting to harvest)	126
GDD ₄₀ MAWN Station	Escanaba
GDD ₄₀ (planting to vine kill)	2275
Seed Spacing	12"

⁶VINE MATURITY RATING

Date: 8/22/23
 Rating 1-5
 1: Early (vines completely dead)
 5: Late (vigorous vines, some flowering)

2023 Fresh Chip Processing Potato Variety Trial

Walther Farms

Planting: 4/25/23 Vine Kill: N/A Harvest: 8/30/23

GDD₄₀: 3392

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						
MSDD376-4	841	940	90	10	89	1	0	1.092	1.0	0	0	0	0	0.5	0.6	3.5	4.5	round flat type, netted skin	
SP327	806	900	90	7	90	0	3	1.073	1.5	0	0	0	0	0.5	1.0	3.5	3.0	some surface scab, round blocky type, bright skin color, some pointed tubers	
Winterset	799	888	90	9	89	1	1	1.089	1.0	0	0	0	0	2.0	0.5	3.0	3.0	bright skin with slight netting, round to oblong type	
MSAA252-7	796	827	97	2	91	6	1	1.084	1.5	0	0	0	0	0.5	0.3	3.0	5.0	heavy netted skin, sticky stolons	
WAF17049-2	782	825	95	5	95	0	0	1.104	1.0	0	0	0	0	0.5	0.0	3.0	2.0	netted skin, round blocky type, some growth cracks	
AF6206-3	756	820	92	8	92	0	0	1.087	1.0	0	0	0	0	1.0	0.4	3.5	4.0	surface scab, oblong type, bright skin	
MSAA076-6	739	806	92	6	92	0	2	1.088	1.0	0	0	10	0	0.5	0.4	2.5	3.5	growth crack, misshapen tubers, round blocky to oblong type	
Mackinaw	695	764	91	7	91	0	2	1.089	1.5	0	0	0	0	1.0	0.2	2.5	3.0	round blocky to oblong type, netted skin	
MSBB630-2	680	743	92	8	92	0	0	1.079	1.0	0	30	0	0	0.5	0.4	2.0	4.5	round to oblong type, netted skin	
AF5933-4	665	731	91	8	91	0	1	1.086	1.0	0	0	0	0	0.5	0.9	2.5	1.5	round blocky type, netted skin	
AF6665-3	645	726	89	10	89	0	1	1.081	1.0	0	0	0	0	0.5	0.2	3.0	3.0	surface scab, oblong pointed tubers, some growth crack	
AR2018-07	633	687	92	8	92	0	0	1.080	1.5	0	0	0	0	1.0	0.8	3.0	2.5	round blocky type, netted skin, some growth crack	
NC470-3	633	692	91	8	91	0	1	1.091	1.5	10	0	0	0	1.0	0.8	3.0	4.5	oblong to oval type, netted skin, growth cracks	
AF6565-8	626	680	92	8	92	0	0	1.082	1.0	0	0	0	0	0.5	0.0	3.0	3.5	round blocky to oblong type, netted skin	
NY179	592	694	85	14	85	0	1	1.079	1.0	0	0	0	0	0.5	0.4	3.0	3.0	oval type, pointed tubers, some netted skin	
Mystere	550	700	79	20	79	0	1	1.074	1.5	0	20	0	0	2.5	0.1	2.5	3.0	raised to pitted scab, oblong blocky to round type	
MSDD553-1	543	593	92	7	92	0	1	1.080	1.5	0	20	0	0	0.5	0.8	2.5	3.5	surface scab, round blocky to pointed tubers	
MSAFB635-15	532	687	77	23	77	0	0	1.079	1.0	0	0	0	0	0.5	0.3	2.5	3.5	round blocky type, netted skin	
AF6165-9	530	637	83	16	83	0	1	1.087	1.0	10	10	0	0	2.5	0.5	3.5	3.0	flat oblong type, netted skin, some pitted scab, growth cracks	
AF6892-6	527	571	92	8	92	0	0	1.076	1.0	0	0	0	0	0.5	0.2	2.5	2.0	round to oblong blocky type, netted skin	
Atlantic	515	606	85	10	85	0	5	1.083	1.5	0	0	0	0	2.0	1.2	4.0	3.0	surface to pitted scab, netted skin, round to pointed tubers	
AF6872-11	501	589	85	12	85	0	3	1.090	1.5	0	0	0	0	1.5	0.2	2.5	2.5	netted skin, some pitted scab, round blocky type	
MSBB614-15	495	554	89	7	89	0	4	1.081	1.0	0	0	0	0	1.0	0.1	2.0	3.5	netted skin, round to oblong, some sticky stolons	
WAF17045-2	470	517	91	9	91	0	0	1.079	1.0	0	0	0	0	0.5	0.3	3.0	2.5	round blocky type, heavy netted skin	
Snowden	469	544	86	14	86	0	0	1.084	1.5	0	20	0	0	0.5	0.8	3.0	3.5	round oblong type, netted skin	
MSAA217-3	463	507	92	7	90	2	1	1.088	1.5	0	0	0	0	0.5	0.7	2.5	2.5	netted skin, some sticky stolons, round blocky type	
AF6552-2	454	522	87	11	87	0	2	1.077	1.0	0	0	0	0	0.5	0.2	3.0	3.5	round blocky type, some netted skin	
B3012-1	449	598	75	25	75	0	0	1.072	1.5	0	0	0	0	0.5	1.4	3.0	2.0	some netted skin, oval type	
B3379-6	442	533	83	17	83	0	0	1.081	2.0	0	0	0	10	0.5	1.1	3.5	1.5	netted skin, purple eyes, round blocky type	
B3381-4	416	535	78	19	78	0	3	1.094	3.0	20	0	0	10	2.5	2.6	4.0	2.5	round blocky type, netted skin, pitted surface scab	
MSAA260-03	414	517	80	17	79	1	3	1.078	1.5	0	0	0	0	0.5	0.0	3.0	2.5	growth cracks, round blocky type	
AF6675-1	401	519	77	16	77	0	7	1.069	1.0	0	0	0	0	0.5	0.0	2.0	2.5	oblong type, some netted skin	
MSBB610-13	360	405	89	10	89	0	1	1.078	1.5	0	0	0	0	0.5	0.1	2.0	2.0	round blocky flat type, growth cracks	
NC821-30	353	439	80	17	80	0	3	1.096	1.0	0	0	0	0	0.5	0.2	3.0	3.5	round blocky type, heavy netted skin	
AF6655-1	351	438	80	17	80	0	3	1.075	1.0	0	20	0	0	1.0	0.2	3.0	3.0	heavy netted skin, round to oblong type	
AF6652-3	350	392	89	11	89	0	0	1.078	1.0	0	0	0	0	0.5	1.3	2.5	2.5	round to oblong type, bright netted skin	
AF6896-1	346	441	79	21	79	0	0	1.081	1.5	0	0	0	0	0.5	1.3	2.5	2.5	netted skin, round oblong type	
B3306-2	338	428	79	21	79	0	0	1.073	2.0	0	0	0	0	0.5	2.2	4.0	2.5	oblong to round type, some raised scab	
AF6901-8	229	313	73	26	73	0	1	1.078	1.5	0	10	0	0	0.5	0.2	2.0	2.5	bright skin color, round blocky type	
AF6555-2	222	336	66	33	66	0	1	1.067	1.0	0	10	0	0	1.0	0.3	2.0	3.0	bright skin color, small tubers, surface scab	
BNC742-2	166	279	60	38	60	0	2	1.061	1.5	0	0	0	0	0.5	0.3	3.0	2.5	surface scab, bright skin, round blocky type	
AF6669-10	142	302	47	53	47	0	0	1.070	1.0	0	20	0	0	0.0	0.2	2.5	5.0	bright small tubers, round blocky type	
BNC726-5	138	274	50	48	50	0	2	1.073	1.0	0	0	0	0	0.5	0.9	3.5	3.5	bright skin color, small tubers, round type	
BNC549-1	118	242	49	46	49	0	5	1.075	1.0	0	0	0	0	3.0	0.4	3.0	2.5	deep pitted scab, oval to oblong type, poor plot stand and yield	
TX18170-4W	38	131	29	71	29	0	0	1.065	1.0	0	0	0	0	2.0	0.3	2.0	2.5	smaller size profile, slight growth crack	
MEAN	489	575	82	17	81	0	1	1.081	1.3	1	4	0	0	0.9	0.6	2.8	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

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: 6/8/23

Rating 1-5

1: Slow emergence

5: Early emergence (vigorous vines, some flowering)

⁸VINE MATURITY RATING

Date: 8/17/23

Rating 1-5

1: Early (vines completely dead)

5: Late (vigorous vines, some flowering)

FIELD DATA

Planting date 4/25/23

Vine Kill Date N/A

Harvest Date 8/30/23

Days (planting to vine kill) N/A

Days (planting to harvest) 127

GDD₄₀ MAWN Station MendonGDD₄₀ (planting to vine kill) 3392

Seed Spacing 10"

2023 Storage Chip Processing Potato Variety Trial

Walther Replicated Chip Trial

Planting: 4/25/23 Vine Kill: 8/22/23 Harvest: 9/18/23

GDD₄₀: 3169

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					
SP327	722	783	92	7	92	0	1	1.067	1.5	0	3	27	0	0.2	2.0	4.3	2.3	nice appearance, thin skin, flat type
MSAA076-6	672	758	89	6	87	2	5	1.080	1.0	0	0	27	0	1.0	0.8	4.0	3.2	growth crack, prominent eyes, misshapen tubers
MSDD376-4	651	695	93	6	91	2	1	1.081	1.0	3	10	17	0	0.7	0.7	4.2	3.3	flat round to oval type, heavy netted skin
AF6200-4	637	689	92	6	89	3	2	1.074	1.0	0	0	3	0	0.7	0.5	4.0	2.8	flat type, variable shape
MSW474-1	627	709	88	11	87	1	1	1.078	1.0	0	7	3	0	0.0	0.7	3.7	3.2	trace soft rot, uniform round type
MSBB630-2	626	696	89	10	89	0	1	1.073	1.0	0	7	0	0	0.8	0.7	2.7	3.2	variable skin finish, trace sticky stolons
MSDD372-07	612	670	91	9	91	0	0	1.088	1.0	0	7	0	0	0.5	1.2	3.3	3.7	recessed eyes, small round type
Snowden	608	642	94	6	93	1	0	1.086	1.0	0	3	10	0	1.0		4.2	3.5	blocky round type, medium netted skin
AF6675-1	604	677	90	9	89	1	1	1.061	1.0	0	33	3	0	0.5	0.7	3.8	2.2	light netted skin, bright appearance
NY174	599	656	91	6	91	0	3	1.075	1.0	0	13	0	0	0.2	0.1	3.5	2.5	medium netted skin, slight sticky stolons
MSDD553-1	586	637	92	7	91	1	1	1.076	1.0	0	10	0	3	0.8	0.6	3.0	3.5	blocky round type
AF6665-3	581	643	90	9	90	0	1	1.071	1.0	0	13	10	10	0.7	0.6	3.7	3.0	slight rot, medium netted skin, flat type
AF6565-8	569	621	91	8	91	0	1	1.071	1.0	3	7	0	0	0.8	0.8	3.5	2.8	moderate soft rot, flat round type
AF6652-3	562	597	94	5	93	1	1	1.069	1.0	0	10	0	0	0.7	1.7	2.8	2.5	trace pointed tubers, round to oval type
Mystere	555	659	84	15	84	0	1	1.063	1.0	0	3	0	0	1.2	0.3	3.3	2.5	flat uniform round to oval type
Bliss	554	608	91	8	91	0	1	1.071	1.0	0	10	0	0	0.2	0.1	3.5	2.2	light netted skin, attractive appearance
MSBB614-15	552	578	95	3	94	1	2	1.073	1.0	0	7	0	0	0.2	0.4	3.0	4.2	medium netted skin, blocky round type
Petoskey	548	598	91	7	91	0	2	1.079	1.0	0	17	0	0	0.3	0.5	4.3	2.5	trace soft rot, blocky round type
AF6886-3	548	576	95	4	88	7	1	1.066	1.0	0	13	17	7	1.0	0.3	3.7	2.7	blocky flat round type, deeper eyes
AC13125-5W	541	592	91	9	90	1	0	1.057	1.0	13	7	7	0	0.5	0.8	4.2	1.7	nice blocky appearance, bright skin, uniform
NYT22-1	541	581	93	5	91	2	2	1.068	1.0	0	0	0	0	0.3	0.4	3.5	2.5	blocky flat type, light netted skin
AF6671-10	540	594	91	9	91	0	0	1.072	1.0	0	0	0	0	0.3	1.1	4.0	1.7	flat oval type, less uniform
AF6669-10	540	600	90	10	90	0	0	1.073	1.0	0	0	3	3	0.3	0.1	3.5	1.8	smaller round type, recessed eyes
MSEE035-4	539	600	90	6	90	0	4	1.078	1.0	7	0	10	7	0.7	1.2	2.7	3.0	slight sticky stolons, blocky oval type
Mackinaw	538	580	93	6	92	1	1	1.077	1.0	0	13	0	0	0.2	0.4	4.0	2.5	flat round type, medium netted skin
MSDD247-11	534	563	94	6	94	0	0	1.079	1.0	13	0	13	0	0.0	0.0	4.0	2.5	nice round appearance, medium netted skin
AF6894-12	533	577	92	8	92	0	0	1.076	1.0	0	10	10	0	1.5	0.6	2.7	2.7	light netted skin, round to oval type
MSAFB635-15	529	615	86	14	86	0	0	1.074	1.0	0	23	0	0	1.0	0.7	3.3	2.0	slight sticky stolons, some compressed tubers
MSDD244-05	527	562	94	5	94	0	1	1.072	1.0	3	17	10	7	0.0	0.2	3.2	3.0	darker skin, nice uniform appearance
AF6969-3	526	552	95	4	87	8	1	1.063	2.0	3	7	3	0	0.3	0.7	3.3	2.7	pink blush around eyes, blocky tubers
Dundee	526	578	91	5	91	0	4	1.090	1.0	0	0	3	0	0.3	0.8	3.0	2.8	growth crack, heavy netted skin
MSBB230-1	518	569	91	9	90	1	0	1.078	1.0	0	3	0	0	0.7	1.1	3.3	2.2	compressed shape, skinning
Lamoka	517	549	94	4	94	0	2	1.075	1.0	0	17	0	0	0.3	0.3	4.5	2.2	moderate soft rot, flat oval type
AF5933-4	510	549	93	6	93	0	1	1.073	1.0	0	17	0	0	1.5	0.2	3.3	1.7	round uniform type, bright
AF6878-15	504	555	91	6	91	0	3	1.086	1.0	0	7	0	0	1.0	0.8	4.0	3.2	moderate soft rot, trace misshapen tubers
AF6165-9	502	554	90	8	89	1	2	1.079	1.0	27	17	3	0	1.2	0.5	4.5	2.2	variable type, poor appearance
NY179	490	554	89	10	89	0	1	1.072	1.0	0	0	0	0	1.0	0.5	3.0	2.7	flat oval type
MSEE031-3	483	525	92	6	91	1	2	1.076	1.0	0	7	3	0	0.2		3.7	2.3	pointed tubers, moderate rhizoctonia
WAF17049-2	473	527	90	6	90	0	4	1.091	1.0	0	3	0	0	0.0	0.1	3.2	3.3	medium netted skin, growth crack
MSAA217-3	472	502	94	5	85	9	1	1.081	1.0	27	7	10	0	0.7	1.3	3.8	2.8	trace silver scurf, medium netted skin

AF6655-1	468	511	91	8	91	0	1	1.068	1.0	0	13	0	0	0.7	0.5	3.2	2.7	medium netted skin, blocky round type
AF6978-1	464	516	90	7	88	2	3	1.073	1.0	10	7	0	0	1.2	1.7	3.0	3.5	variable type, some misshapen tubers
MSDD247-07	462	500	93	6	93	0	1	1.087	1.0	0	3	0	0	0.5	0.2	3.3	2.7	smaller uniform round type
MSBB058-1	442	477	92	5	91	1	3	1.080	1.0	0	3	10	0	0.8	0.1	1.5	2.8	trace soft rot, marginal appearance
AF6883-15	424	483	88	11	87	1	1	1.070	1.0	0	7	3	0	0.7	0.3	3.8	1.5	light netted skin, variable appearance
TX19009-2W	423	532	79	18	79	0	3	1.070	1.0	3	10	0	0	1.8	0.1	3.8	2.7	growth crack, heat sprouts, misshapen pickouts
AF6980-1	421	511	82	14	82	0	4	1.068	1.0	0	0	0	0	0.2	1.6	3.5	1.7	pointed tubers, variable shape and skin
AF6898-1	415	510	82	16	82	0	2	1.068	1.0	5	20	0	0	0.3	1.4	3.5	2.2	slight soft rot, misshapen tubers
AF6883-8	413	470	88	12	88	0	0	1.077	1.0	3	7	0	0	1.2	0.3	4.5	2.2	flat oval type, light netted skin
MSAA260-03	410	471	87	9	83	4	4	1.074	1.0	0	10	10	3	1.2	0.4	3.3	3.2	blocky round type
AF6911-4	392	485	81	19	81	0	0	1.075	1.0	0	10	3	0	1.5	0.6	3.0	3.0	uniform round type, medium netted skin
AF6979-3	370	396	93	6	93	0	1	1.063	1.0	0	15	0	0	0.5	0.0	3.3	1.0	bright appearance, blocky type
WAF17045-2	356	393	91	9	90	1	0	1.073	1.0	0	10	0	0	0.0	0.3	3.5	2.7	heavy netted skin, nice appearance
MEAN	527	581	90	8	89	1	2	1.074	1.0	2	8	4	1	0.6	0.6	3.5	2.6	

¹SIZE

Bs: < 1 7/8" Data not replicated
 As: 1 7/8" - 3 1/4"
 OV: > 3 1/4"
 PO: Pickouts

²SPECIFIC GRAVITY

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: 6/12/23
 Rating 1-5
 1: Slow emergence
 5: Early emergence (vigorous vines, some flowering)

⁸VINE MATURITY RATING

Date: 8/21/23
 Rating 1-5
 1: Early (vines completely dead)
 5: Late (vigorous vines, some flowering)

FIELD DATA

Planting date 4/25/23
 Vine Kill Date 8/22/23
 Harvest Date 9/18/23
 Days (planting to vine kill) 119
 Days (planting to harvest) 146
 GDD₄₀ MAWN Station Constantine
 GDD₄₀ (planting to vine kill) 3169
 Seed Spacing 10"