

Michigan State University Potato Outreach Program: On-Farm Chip

Processing Variety Trials Summary, 2025

Table of Contents

Statewide Fresh Chip Processing Trials: Summary Across Three Locations	1
Statewide Storage Chip Processing Trials: Summary Across Seven Locations	2
Fresh Chip Processing Trial, Black Gold Farms, St. Joseph County.....	4
Storage Chip Processing Trial, 4-L Farms, Inc., Kalamazoo County	5
Storage Chip Processing Trial, Hamptons Potato Growers LLC, Bay County	6
Fresh Chip Processing Trial, Lennard Ag Co., St. Joseph County	7
Storage Chip Processing Trial, Lennard Ag Co., St. Joseph County	8
Storage Chip Processing Trial, Main Farms LLC, Montcalm County	9
Storage Chip Processing Trial, MPIC Box Bin, Montcalm Research Center, Montcalm County	10
Potatoes USA/SNAC Trial, Sandyland Farms, Montcalm County.....	11
Fresh Chip Processing Trial, Walther Farms, St. Joseph County	12
Storage Chip Processing Replicated Trial, Walther Farms, St. Joseph County	13



Statewide Fresh Chip Processing Trials: Summary Across Three Locations

LINE	CWT/A		PERCENT OF TOTAL ¹					SP GR ²	OTF CHIP SCORE ³	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			HH	VD	IBS	BC					
AF5933-4 ^c	674	741	91	9	91	0	0	1.075	1.0	0	40	0	0	2.5	0.4	1.0	2.5	mishapes, uniform round oval blocky tubers, light skin appearance
MSFF038-3 ^{ac}	672	730	92	7	92	0	2	1.072	1.0	0	0	5	5	1.8	0.0	1.0	2.3	flat round oval, medium netted, slight skinning, sheep nose, uniform tuber type
MSHH018-3 ^{ac}	671	727	93	8	93	0	0	1.070	1.3	0	5	0	0	0.5	0.1	1.3	2.5	blocky uniform, medium netted, slight skinning, nice general appearance
Paige ^c	636	737	86	11	86	0	2	1.081	1.0	0	10	0	10	2.0	0.0	1.0	3.0	flat oval, dark uniform type, sticky stolons, medium netted, moderate skinning
Manistee^b	612	681	90	10	90	0	0	1.080	1.5	0	0	0	0	0.5	0.0	2.0	3.0	flat round, big tubers
MSGG426-2 ^c	607	657	92	7	92	0	1	1.073	1.5	0	20	0	0	0.5	0.3	1.0	2.5	blocky round oval, medium netted, slight points,
MSDD249-09 ^{ab}	590	612	96	3	96	0	1	1.078	1.3	0	3	0	0	1.2	0.0	1.0	2.7	blocky round oval, slight skinning, medium netted, sheep nose
NY174 ^b	587	688	85	13	85	0	2	1.083	1.5	0	0	0	0	0.5	0.0	2.0	3.5	blocky tubers
Snowden^{abc}	570	649	88	11	88	0	1	1.075	1.3	0	3	7	3	0.5	0.1	1.5	2.8	round blocky, moderate skinning, traces of points, mishapes
ND13220C-3 ^{abc}	537	801	66	31	66	0	3	1.086	1.5	0	7	0	0	1.2	0.0	1.7	3.5	heat sprouts, not uniform tuber shape, mishapes, moderate/severe skinning
AF6200-7 ^{abc}	526	572	92	7	92	0	1	1.087	1.3	0	0	0	0	0.3	0.0	1.3	2.7	tuber rots, flat round oval, moderate skinning, minor growth cracks
MSGG276-4 ^a	515	561	92	7	92	0	1	1.073	1.5	0	0	0	0	2.0	0.0	1.0	2.5	round oval, typy tubers
NY177 ^{bc}	505	688	72	28	72	0	0	1.090	1.2	0	7	10	0	1.0	0.0	1.5	3.0	flat pear shaped, medium netted, moderate skinning, mishapes
MSDD247-11 ^{abc}	501	561	88	8	88	0	3	1.078	1.2	0	3	7	3	0.5	0.0	1.3	2.2	light skin appearance, few points, variable tuber shape
B3403-6 ^{abc}	499	602	82	17	82	0	1	1.086	1.5	3	0	7	0	1.3	0.0	1.3	2.8	moderate skinning, nice appearance, uniform tubers, points
Petoskey ^b	489	562	87	12	87	0	1	1.092	1.5	0	0	0	0	1.0	0.0	1.0	3.0	uniform tuber type
MSDD247-07 ^{abc}	485	549	88	9	88	0	3	1.090	1.3	0	3	13	3	1.0	0.0	1.3	2.7	variable tubers size, medium netted, some points, traces of skinning
MSEE035-4 ^{abc}	476	547	86	10	86	0	4	1.079	1.5	17	0	10	0	1.7	0.0	1.0	3.5	severe skinning, flat round oval blocky, mishapes, points
MSGG409-3 ^{abc}	472	577	82	17	82	0	1	1.072	1.2	0	0	3	0	0.3	0.0	1.2	3.3	moderate to severe skinning, mishapes, some points, sheep nose
Mackinaw ^{ab}	472	529	89	10	89	0	1	1.080	1.3	0	0	5	0	0.5	0.0	1.0	3.3	uniform tuber shape, sheep nose
MSBB617-02 ^{abc}	431	476	91	8	91	0	1	1.074	1.5	10	7	7	3	0.7	0.0	1.0	2.7	small uniform round tubers, moderate skinning, heavy netted, stem end, points
MSAA076-6 ^{abc}	427	538	72	25	72	0	4	1.080	1.5	0	3	27	0	1.0	0.1	1.5	2.8	dark uniform tubers, flat round oval, traces of sticky stolons. Severe heat necrosis, non uniform
AF6565-8 ^a	415	493	84	12	83	1	5	1.077	1.5	5	0	0	0	1.3	0.0	1.8	3.0	light skin appearance, uniform tubers, some stem end, points
Bliss ^{abc}	406	498	80	16	80	0	4	1.074	1.5	0	7	0	0	0.8	0.1	1.2	2.7	blocky round oval, not uniform, mishapes, typical purplish bud end, stem end, points
MSBB058-1 ^b	404	503	80	20	80	0	0	1.083	1.5	0	0	20	0	0.5	0.0	1.5	4.0	small round tubers
CMK2009-630-001 ^{abc}	400	579	67	29	67	0	4	1.076	1.5	10	13	0	0	2.0	0.0	1.5	3.0	variable tuber shape, moderate skinning, medium netted, knobs, mishapen
MSDD244-05 ^a	390	461	85	12	82	3	3	1.074	1.5	0	0	20	0	1.0	0.0	1.0	2.5	sheep nose, some points, greening
AF6671-10 ^{abc}	372	432	86	14	86	0	1	1.072	1.2	7	0	7	0	0.5	0.1	1.2	3.0	traces of rots, moderate skinning, large tubers, light skin appearance
MSEE031-3 ^{abc}	327	411	76	19	76	0	5	1.072	1.3	0	17	10	0	0.5	0.2	1.5	3.0	dark skin uniform tubers, flat round oval, mishapes, Points, some growth cracks
Atlantic^{abc}	308	380	80	17	80	0	2	1.077	1.7	13	7	17	3	1.0	0.1	1.5	2.5	not uniform tuber type, very long size profile, shiny appearance
MUI2014-011-023 ^{abc}	285	515	54	41	54	0	6	1.079	1.8	0	23	3	0	1.5	0.2	1.8	3.0	mishapes, small size, oval oblong. Some blistered chips, golden skin
MEAN	492	582	84	15	83	0	2	1.079	1.4	2	6	6	1	1.0	0.1	1.3	2.9	

2025 Chip Variety Trial Sites

Black Gold^a
 Lenard Ag^b
 Walther Farms^c

¹SIZE

Bs: < 1 7/8"
 As: 1 7/8" - 3 1/4"
 OV: > 3 1/4"
 PO: Pickouts
 % of total: Values rounded to the nearest whole number

²SPECIFIC GRAVITY

Total solids

³OUT OF THE FIELD CHIP COLOR SCORE

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)

Statewide Storage Chip Processing Trials: Summary Across Seven Locations

LINE	CWT/A		PERCENT OF TOTAL ¹					SP GR ²	OTF CHIP SCORE ³	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			HH	VD	IBS	BC					
MSGG276-4 ^g	589	638	93	8	92	1	0	1.073	1.5	23	0	0	1	0.0	0.6	2.7	2.7	medium heavy netted, blocky oval
MSGG409-3 ^{abdeg}	557	622	89	9	87	2	2	1.079	1.3	7	16	7	2	0.9	0.3	2.0	3.1	blocky round, heavy netted, slight skinning
MSGG409-2 ^{abdeg}	518	576	88	10	84	4	2	1.079	1.4	22	7	25	0	1.3	0.2	1.7	3.0	medium netted, blocky round oval
AF6671-10 ^g	503	544	92	7	92	0	1	1.082	1.5	3	16	0	0	0.3	0.7	2.6	2.3	small round size, growth cracks, medium netted
W17AF6670-1 ^f	503	583	86	13	86	0	0	1.080	1.0	0	17	3	3	2.0	0.0	1.5	3.0	flat round oval, medium netted
ND13220C-3 ^{abcdfg}	484	672	70	25	69	1	6	1.091	1.0	14	18	0	3	1.5	0.2	2.5	3.3	not uniform tuber type, light netted, not uniform size, points, mishapen
NY174 ^{abdefg}	478	535	88	10	88	0	1	1.086	1.2	1	13	1	0	1.3	0.4	2.1	2.8	flat blocky, round oval, medium netted, misshapen pickouts, slight skinning, nice general appearance
Petoskey ^{deg}	476	587	80	7	80	0	13	1.079	1.5	7	18	7	13	0.9	0.2	1.9	2.2	not uniform size, medium netted, misshapen, growth cracks, slight skinning, alligator hide
MSEE035-4 ^{abdeg}	470	525	89	8	88	1	3	1.085	1.3	8	0	16	0	1.0	0.4	1.7	3.2	light netted, flat round tuber type, growth cracks, not uniform tuber type, sticky stolons
MSHH018-3 ^{abdef}	451	504	88	10	85	4	2	1.077	1.3	5	4	5	0	0.9	0.2	1.7	2.4	blocky round oval, light to medium netted, sticky stolons, skinning
MSBB058-1 ^{abdefg}	449	492	91	8	90	1	1	1.090	1.3	0	3	4	0	1.0	0.2	1.9	2.5	deep apical eye, medium netted, moderate skinning, uniform oval tuber type
Snowden^{abdefg}	438	492	87	12	86	2	1	1.078	1.2	16	21	6	7	1.5	0.2	1.9	2.5	medium netted, round oval, medium skinning, blocky round, uniform tuber type
NY177 ^{abdefg}	431	526	81	16	81	0	2	1.091	1.2	0	21	7	0	1.5	0.2	1.9	2.9	flat round to oval, light netted, moderate skinning, traces of pear shapes, growth cracks
W17066-34 ^f	424	508	83	16	83	0	1	1.079	1.0	0	20	0	0	1.0	0.1	1.5	3.0	round oval, med netted, trace of growth cracks
Paige ^{eg}	422	555	73	26	73	0	1	1.088	1.5	2	17	0	0	1.7	0.5	2.3	3.3	flat round oval, medium netted, moderate skinning, growth cracks, not uniform tuber type
MSDD249-09 ^{abdeg}	415	444	93	4	90	4	3	1.081	1.3	3	12	2	0	1.3	0.3	1.7	2.6	flat blocky, growth cracks, medium netted, not uniform tuber type
MSGG426-2 ^{bg}	414	447	93	7	92	1	1	1.078	1.5	0	20	0	0	1.0	0.6	2.5	2.1	large blocky round, heavy netted, lots of growth cracks
MSFF037-17 ^{abeg}	408	468	87	11	87	0	2	1.079	1.4	3	16	18	0	1.7	0.1	1.8	2.6	flat round oblong, sticky stolons, misshapen, light netted, growth cracks
AF5933-4 ^{bg}	406	467	83	17	83	0	0	1.080	1.3	5	45	0	5	2.2	0.4	2.9	1.4	small uniform round, light netted, blocky
Mackinaw ^{acdeg}	398	467	85	12	84	0	3	1.088	1.3	0	23	10	0	0.9	0.1	2.0	3.0	Round oval blocky, medium netted, medium skinning, sticky stolons, ok general appearance

2025 Chip Variety Trial Sites

4-L Farm^a
MRC Box Bin^b
Hampton Farms^c
Lennard Ag^d
Main Farms^e
Sandyland Farms^f
Walther Farms^g

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

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1: Early (vines completely dead)
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	US#1	TOTAL	US#1	Bs	As	OV	PO	HH			VD	IBS	BC						
AF6200-7 ^{abcdefg}	397	439	90	7	89	1	4	1.088	1.4	7	6	2	0	1.0	0.5	1.7	2.4	medium netted, flat round oval blocky, points, growth cracks, medium netted	
MSFF038-3 ^{abcdeg}	392	473	83	15	81	1	2	1.079	1.3	10	3	11	0	1.3	0.3	2.3	2.5	beautiful round tuber type, medium netted, growth cracks, misshapen pick outs, slight hide skin	
AF6206-5 ^{fg}	389	460	84	12	84	0	4	1.086	1.2	0	19	0	0	2.2	0.4	2.3	2.3	blocky tuber not uniform tuber type, poor general appearance, medium netted, skinning	
MSDD247-07 ^{abcdeg}	377	418	89	9	88	1	3	1.092	1.2	2	10	32	0	0.9	0.2	1.9	2.4	blocky round, medium netted, mishapen pickouts, trace of growth cracks, slight skinning	
MSDD247-11 ^{abcdeg}	365	413	88	10	88	0	2	1.084	1.2	2	11	1	1	0.6	0.2	2.0	2.2	not uniform tuber type, medium netted, deep eyes, poor yield	
MSGC20-16 ^b	362	415	87	8	87	0	5	1.080	1.0	0	0	10	0	1.0	0.1	4.0	1.5	growth cracks, misshapen pickouts, round blocky tuber type, heavy netted	
AF6671-10 ^{abcde}	350	400	86	12	86	0	2	1.082	1.2	2	22	0	0	0.9	0.2	1.7	2.3	small flat round, light netted, not uniform tuber type, skinning	
AF6565-8 ^{bcdefg}	349	411	83	15	83	0	2	1.079	1.3	1	8	1	0	1.3	0.2	1.6	2.9	small round size, medium netted,growth cracks, misshapen pick outs	
MSAA076-6 ^{bddeg}	349	410	83	14	83	0	3	1.083	1.2	0	21	28	6	1.1	0.2	2.5	2.4	medium netted, pear shaped, medium netted, oval pear shape, sticky stolons	
MSGB02-02 ^b	348	397	88	11	88	0	1	1.084	1.0	20	0	0	0	1.5	0.1	2.5	2.0	small to medium tuber type, medium netted, growth cracks, heat sprouts	
Bliss ^{abcdeg}	347	411	82	14	82	1	4	1.079	1.3	0	22	1	2	1.0	0.3	1.7	2.5	small round, uniform tuber type, light netted, trace of purple on apical end, growth cracks, knobby	
MSEE031-3 ^{abcdeg}	346	402	84	13	84	0	2	1.076	1.3	3	22	15	0	0.8	0.5	2.4	2.5	misshapen, growth cracks, skin cracks, skinning, pear shape, deep apical eye	
MSGA24-02 ^b	328	374	88	8	88	0	4	1.084	1.0	0	20	0	0	1.0	0.4	3.5	3.5	flat round tuber type, light to medium netted, uniform general appearance, growth cracks	
Manistee ^{cde}	297	359	82	17	82	0	0	1.073	1.3	0	13	13	0	1.8	0.4	1.7	2.5	misshapen, non uniform tuber type, points, knoby, medium netted	
Lamoka ^{abcdef}	290	349	82	12	81	1	6	1.076	1.2	2	26	7	0	1.5	0.2	1.9	2.3	flat oval tuber type, medium light netted skin, trace pear shapes, pear shaped	
Kal 91.3 ^b	284	346	82	16	82	0	2	1.078	1.0	30	0	0	0	1.5	0.3	3.0	2.0	light medium netted, not uniform tuber type	
MSBB617-02 ^{abcdeg}	270	301	89	7	88	1	4	1.074	1.3	15	22	5	2	0.5	0.3	1.7	2.4	blocky round, medium size tuber type, light netted, skinning	
CMK2009-630-001 ^{abcdeg}	269	430	57	37	57	0	6	1.078	1.3	10	15	0	2	2.0	0.2	2.6	2.1	smaller oval to oblong, medium netted, not uniform, points, heat sprouts	
Elevate ^b	201	255	79	21	79	0	0	1.072	1.0	10	90	0	0	2.5	0.2	3.5	1.5	light medium netted, not uniform tuber type	
B3403-6 ^b	192	228	84	11	84	0	5	1.088	1.0	0	10	0	0	2.0	0.2	2.5	2.5	light medium netted, not uniform tuber type	
MUI2014-011-023 ^{acdeg}	187	409	43	43	43	0	13	1.080	1.1	6	11	11	0	1.5	0.3	2.2	2.4	heavy netted, not uniform tuber type, poor general appearance, round to oval	
MEAN	388	457	84	13	83	1	3	1.081	1.2	6	16	6	1	1.3	0.3	2.2	2.5		

2025 Chip Variety Trial Sites

4-L Farm^a
MRC Box Bin^b
Hampton Farms^c
Lennard Ag^d
Main Farms^e
Sandyland Farms^f
Walker Farms^g

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OV: > 3 1/4"
PO: Pickouts
% of total: Values rounded to the nearest whole number

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(SNAC Scale)
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(percent of tubers out of 10)
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Rating 1-5
1: Slow emergence
5: Early emergence
(vigorous vines, some flowering)

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

Fresh Chip Processing Trial, Black Gold Farms, St. Joseph County

Planting: 04/17/2025 Harvest: 08/12/2025

GDD₄₀: 3215

LINE	CWT/A		PERCENT OF TOTAL ¹					SP GR ²	OTF CHIP SCORE ³	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			HH	VD	IBS	BC					
MSFF038-3	600	663	90	8	90	0	2	1.071	1.0	0	0	0	0	2.0	0.0	1.0	2.0	sheep nose, uniform tuber, misshapes
MSHH018-3	594	647	92	8	92	0	0	1.072	1.5	0	0	0	0	1.0	0.1	1.5	2.5	round oval, uniform tubers
Snowden	586	670	87	10	87	1	2	1.075	1.5	0	0	0	0	1.0	0.0	1.5	3.0	greening, some misshapes
MSGG276-4	515	561	92	7	92	0	1	1.073	1.5	0	0	0	0	2.0	0.0	1.0	2.5	round oval, typy tubers
MSDD249-09	469	501	94	5	94	0	2	1.077	1.0	0	0	0	0	1.5	0.0	1.0	2.5	sheep nose, round blocky, points
MSDD247-07	446	510	87	7	87	0	6	1.088	1.5	0	0	20	0	1.0	0.0	1.5	2.0	points, greening
MSGG409-3	446	548	81	19	81	0	0	1.074	1.0	0	0	0	0	0.5	0.0	1.0	3.0	some points, some heat sprouts
B3403-6	444	540	82	15	82	0	3	1.088	1.5	0	0	20	0	1.0	0.0	1.5	2.5	non uniform, points
Mackinaw	438	494	89	10	89	0	1	1.077	1.0	0	0	10	0	0.5	0.0	1.0	3.0	sheep nose
ND13220C-3	421	677	62	33	62	0	5	1.086	1.0	0	0	0	0	1.5	0.0	2.0	3.5	heat sprouts
MSDD244-05	390	461	85	12	82	3	3	1.074	1.5	0	0	20	0	1.0	0.0	1.0	2.5	sheep nose, some points, greening
AF6200-7	379	430	88	10	88	0	2	1.085	1.5	0	0	0	0	0.5	0.0	1.5	2.5	minor growth cracks,
MSBB617-02	368	400	92	7	92	0	1	1.077	1.5	10	0	0	10	1.0	0.0	1.0	2.5	points
MSEE035-4	342	423	81	13	81	0	6	1.076	1.5	0	0	10	0	2.0	0.0	1.0	3.5	points, round oval
MSDD247-11	327	387	84	9	84	0	7	1.080	1.0	0	10	0	0	0.5	0.0	1.5	2.0	points
NY177	325	499	65	35	65	0	0	1.088	1.0	0	0	20	0	0.5	0.0	1.5	2.5	
AF6565-8	306	370	83	10	81	2	7	1.074	1.5	0	0	0	0	1.5	0.0	1.5	2.5	mixed with some russet line, misshapes, knobby, points
AF6671-10	288	370	78	22	78	0	1	1.070	1.0	20	0	0	0	0.5	0.2	1.0	2.5	light skin appearance, variable tuber size, sheep nose
CMK2009-630-001	280	452	62	33	62	0	5	1.079	1.5	0	0	0	0	2.5	0.0	1.5	2.5	misshapen, knobs, points
Bliss	235	345	68	24	68	0	8	1.075	1.5	0	0	0	0	0.5	0.0	1.0	2.5	knobs and points
Atlantic	232	330	70	28	70	0	1	1.075	1.5	20	0	0	0	0.5	0.1	1.5	2.5	shinny appearance
MUI2014-011-023	220	442	50	37	50	0	13	1.077	1.5	0	0	0	0	1.5	0.0	2.0	3.0	misshapen, sticky stolons, points, knobs
MSEE031-3	148	231	64	25	64	0	11	1.070	1.0	0	20	0	0	0.5	0.1	1.5	2.5	points, some growth cracks
MSAA076-6	137	281	49	44	49	0	7	1.075	1.5	0	0	0	0	0.5	0.1	1.5	3.0	non uniform
MEAN	372	468	78	18	78	0	4	1.077	1.3	2	1	4	0	1.1	0.0	1.3	2.6	

¹SIZE

Bs: < 1 7/8"

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

OV: > 3 1/4"

PO: Pickouts

% of total: Values rounded to the nearest whole number

²SPECIFIC GRAVITY³OUT OF THE FIELD CHIP COLOR

Total solids

(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: 5/23/2025

Rating 1-5

1: Slow emergence

5: Early emergence (vigorous vines, some

flowering)

⁸VINE MATURITY RATING

Date:

8/12/2025

Rating 1-5

1: Early (vines completely dead)

5: Late (vigorous vines, some flowering)

FIELD DATA

Planting date

4/17/2025

Vine Kill Date

NA

Harvest Date

8/12/2025

Days (planting to vine kill)

NA

Days (planting to harvest)

117

GDD₄₀ MAWN Station

3215

Mendon

GDD₄₀ (planting to harvest)

NA

Seed Spacing

10"

Storage Chip Processing Trial, 4-L Farms, Inc., Kalamazoo County

Planting: 05/19/2025 Harvest: 10/15/2025

GDD₄₀: 4103

LINE	CWT/A		PERCENT OF TOTAL ¹					SP GR ²	OTF CHIP SCORE ³	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			HH	VD	IBS	BC					
ND13220C-3	863	939	92	3	86	6	5	1.093	1.0	60	0	0	0	0.5	0.0	1.5	2.5	misshapen, knobby, pine coning
Snowden	702	719	98	2	87	11	0	1.075	1.0	80	0	10	0	0.5	0.1	1.5	2.0	flat round oval, sticky stolons, uniform tuber type
MSGG409-2	639	721	89	4	74	14	8	1.079	1.0	80	0	0	0	0.5	0.0	1.0	3.0	severe skin cracks, growth cracks, misshapen, herbicide injury?
AF6671-10	618	649	95	3	95	0	2	1.085	1.0	0	0	0	0	0.5	0.2	1.0	2.0	oval oblong
Bliss	590	676	87	3	84	3	10	1.082	1.0	0	0	0	0	1.5	0.0	1.0	2.0	knobby, growth cracks, misshaped
MSDD247-07	567	602	94	3	87	7	2	1.091	1.0	0	0	90	0	0.5	0.0	1.0	2.5	alligator skin, growth cracks
NY174	553	585	95	4	93	1	1	1.082	1.0	0	0	0	0	0.5	.	1.0	2.5	flat ground oval
AF6200-7	550	611	90	6	87	3	4	1.092	1.0	30	0	0	0	0.5	0.0	1.0	2.5	growth cracks
MSEE031-3	534	577	93	4	90	2	3	1.077	1.0	0	20	30	0	0.5	0.4	1.5	2.5	flat round oblong, sticky stolons, misshapen
MSEE035-4	508	553	92	5	92	0	4	1.088	1.0	0	0	0	0	0.5	0.1	1.0	3.5	growth cracks, uniform tuber type, round oval, trace sticky stolons
NY177	504	570	88	5	87	2	6	1.091	1.0	0	20	1	0	0.5	0.0	1.0	2.5	growth cracks, misshaped, flat round oval, traces of rot
MSFF038-3	490	567	87	4	81	6	9	1.082	1.0	50	10	30	0	1.0	0.1	1.0	2.0	trace grotwth cracks, flat round oval, sticky stolons
MSGG409-3	489	521	94	4	81	13	2	1.075	1.0	40	0	0	0	0.5	0.0	1.0	3.0	growth cracks, flat round oval, sticky stolons
MSHH018-3	461	513	90	2	70	20	8	1.077	1.0	20	0	0	0	0.5	0.2	1.0	2.0	trace points, Trace growth cracks,
Mackinaw	424	480	88	4	87	1	7	1.086	1.0	0	10	0	0	0.5	0.0	1.0	2.5	flat round oval, sticky stolons, trace growth cracks, trace points
CMK2009-630-001	419	565	74	13	74	0	13	1.080	1.0	0	20	0	0	1.0	0.0	1.5	2.0	oblong, golden yellow skin, misshaped, growth cracks, points
MSDD249-09	408	461	89	1	76	13	10	1.083	1.0	10	0	0	0	0.5	0.1	1.0	2.0	growth cracks, knobby, flat round oval
Lamoka	404	469	86	4	84	2	10	1.076	1.0	0	40	0	0	0.5	0.0	1.0	2.0	misshapen, points
MSFF037-17	383	458	84	9	84	0	8	1.078	1.0	0	20	0	0	2.0	0.0	1.0	2.5	severe growth cracks, large flat round, sticky stolons
MSBB617-02	364	403	90	5	85	5	5	1.075	1.0	30	0	0	10	0.0	0.0	1.0	2.5	trace knobs, growth cracks, round oval
MSBB058-1	361	389	93	6	83	10	2	1.091	1.0	0	0	0	0	0.5	0.0	1.0	2.0	growth cracks, pine coning
MUI2014-011-023	284	570	50	16	50	0	34	1.088	1.0	0	0	0	0	0.5	0.0	2.0	2.5	misshapen, non uniform tuber type, points, knobby
MSDD247-11	256	301	85	11	85	0	4	1.076	1.0	0	0	0	0	0.0	0.0	1.0	2.5	misshapen, growth cracks, skin cracks
MEAN	494	561	88	5	83	5	7	1.083	1.0	17	6	7	0	0.6	0.1	1.1	2.4	

¹SIZE

Bs: < 1 7/8"
As: 1 7/8" - 3 1/4"
OV: > 3 1/4"
PO: Pickouts
% of total: Values rounded to the nearest whole number

²SPECIFIC GRAVITY³OUT OF THE FIELD CHIP COLOR

Total solids (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: 6/10/2025
Rating 1-5
1: Slow emergence
5: Early emergence (vigorous vines, some flowering)

⁸VINE MATURITY RATING

Date: 8/21/2025
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

FIELD DATA

Planting date 5/19/2025
Vine Kill Date 10/2/2025
Harvest Date 10/15/2025
Days (planting to vine kill) 136
Days (planting to harvest) 149
GDD₄₀ MAWN Station 4103 Allegan
GDD₄₀ (planting to harvest) NA
Seed Spacing 10"

Storage Chip Processing Trial, Hamptons Potato Growers LLC, Bay County

Planting: 4/29/2025 Vine Kill: 9/08/2025 Harvest: 9/25/2025

CGDD₄₀: 3901

LINE	CWT/A		PERCENT OF TOTAL ¹						SP GR ²	OTF CHIP SCORE ³	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	HH			VD	IBS	BC						
MSGG409-2	740	766	97	3	93	4	0	1.083	1.5	10	30	60	0	1.0	0.1	1.0	3.5	moderate alligator hide, rhizoctonia, large blocky round, medium netted, slight skinning	
MSGG409-3	538	616	87	12	86	1	1	1.082	1.0	0	70	0	0	0.5	0.1	1.5	3.0	medium heavy netted, round blocky, slight sticky stolons	
ND13220C-3	522	644	81	19	81	0	0	1.093	1.0	10	20	0	0	0.5	0.2	2.0	3.0		
MSEE035-4	501	518	97	3	94	3	0	1.089	1.5	0	0	0	0	1.0	0.2	1.0	4.0	round tuber shape	
NY174	437	498	88	12	88	0	0	1.089	1.5	0	0	0	0	0.5	0.3	1.5	3.0		
MSBB058-1	431	492	88	12	88	0	0	1.092	2.0	0	0	0	0	0.5	0.4	1.5	3.0	flat round to oval, light netted, traces of pear shapes	
NY177	416	495	84	15	84	0	1	1.094	1.5	0	30	0	0	0.5	0.1	1.5	3.5		
MSDD249-09	383	401	95	5	94	1	0	1.082	1.0	0	10	0	0	0.5	0.1	1.5	2.5	large blocky flat round tuber type, medium netted	
MSDD247-07	365	422	87	13	87	0	0	1.101	1.0	0	0	0	0	0.5	0.1	1.5	2.5		
MSFF038-3	359	400	90	10	88	1	0	1.075	1.5	0	0	0	0	0.5	0.4	2.0	3.5		
AF6200-7	340	359	95	5	94	1	0	1.089	1.5	0	0	0	0	0.0	0.1	1.5	3.0		
CMK2009-630-001	337	495	68	30	68	0	2	1.082	1.5	30	30	0	0	2.0	0.6	2.0	2.5	flat round oval, not uniform tuber type, light netted, yellow golden appearance	
MSHH018-3	288	361	80	20	80	0	0	1.075	1.0	0	0	0	0	0.5	0.5	1.5	3.0		
AF6565-8	278	344	81	18	81	0	1	1.078	1.0	0	20	0	0	0.5	0.0	1.5	3.5	smaller round tuber type, heavy netted, slight skinning	
MSDD247-11	271	335	81	19	81	0	0	1.091	1.0	0	0	0	0	0.5	0.2	1.5	2.5		
Lamoka	270	317	85	13	85	0	2	1.077	1.5	0	40	0	0	1.5	0.2	2.0	2.5	flat oval tuber type, medium light netted skin, trace pear shapes	
Mackinaw	262	332	79	21	79	0	0	1.090	1.5	0	30	0	0	0.5	0.1	1.5	3.0	moderate blackscurf/rhizoctonia, medium heavy netted, traces of pear shape, not uniform tuber type	
MSBB617-02	240	275	87	12	87	0	0	1.081	1.5	0	70	0	0	0.0	0.2	1.5	2.5	small round tuber type, heavy netted, slight skinning	
AF6671-10	219	283	78	22	78	0	0	1.082	1.5	0	30	0	0	0.5	0.0	1.5	2.5	small flat round, light netted	
Manistee	217	261	83	16	83	0	1	1.070	1.5	0	40	0	0	1.0	1.0	1.5	3.0	deep apical eye, medium netted, moderate skinning	
Snowden	215	299	72	28	72	0	0	1.084	1.0	0	50	0	0	1.5	0.1	1.5	2.5	round uniform tuber type	
MSEE031-3	170	241	70	30	70	0	0	1.079	1.5	0	30	0	0	1.0	0.7	2.0	2.5	slight black scurf, round tuber typ, light netted skin	
Bliss	166	234	71	29	71	0	0	1.078	1.0	0	40	0	0	0.5	0.8	1.5	3.0	small round, uniform tuber type, light netted, trace of purple on apical end	
MUI2014-011-023	137	301	45	52	45	0	3	1.083	1.0	0	0	30	0	0.5	0.8	2.0	2.5		
MEAN	338	404	82	18	82	0	0	1.084	1.3	2	23	4	0	0.7	0.1	1.6	2.9		

¹SIZE

Bs: < 1 7/8"
As: 1 7/8" - 3 1/4"
OV: > 3 1/4"
PO: Pickouts
% of total: Values rounded to the nearest whole numbers

²SPECIFIC GRAVITY³OUT OF THE FIELD CHIP COLOR

Total solids (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: 06/05/2025
Rating 1-5
1: Slow emergence
5: Early emergence (vigorous vines, some flowering)

⁸VINE MATURITY RATING

Date: 08/08/2025
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

FIELD DATA

Planting date 4/29/2025
Vine Kill Date 9/8/2025
Harvest Date 9/25/2025
Days (planting to vine kill) 132
Days (planting to harvest) 149
CGDD₄₀ (MAWN Station) 3901 Richville/Frankenmuth
CGDD40 (planting to vine kill) 3411
Seed Spacing 10"

Fresh Chip Processing Trial, Lennard Ag Co., St. Joseph County

Planting:4/17/2025 Harvest: 8/14/2025

CGDD₄₀: 3293

LINE	CWT/A		PERCENT OF TOTAL ¹						SP GR ²	OTF CHIP SCORE ³	RAW TUBER QUALITY ⁴ (%)				COMMO N SCAB RATING ⁵	SED SCORE ⁶	VINE VIGOR ⁷	VINE MATURITY ⁸	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV	PO	HH			VD	IBS	BC						
MSDD249-09	716	725	99	1	99	0	1	1.081	1.5	0	0	0	0	1.5	0.0	1.0	3.0	blocky big tubers	
AF6200-7	641	706	91	9	91	0	0	1.090	1.5	0	0	0	0	0.5	0.0	1.5	3.0	some knobs, uniform tuber shape	
Snowden	619	696	89	11	89	0	0	1.079	1.5	0	0	0	10	0.5	0.1	2.0	3.0	big tubers	
Manistee	612	681	90	10	90	0	0	1.080	1.5	0	0	0	0	0.5	0.0	2.0	3.0	flat round, big tubers	
NY174	587	688	85	13	85	0	2	1.083	1.5	0	0	0	0	0.5	0.0	2.0	3.5	blocky tubers	
Bliss	539	640	84	13	84	0	3	1.080	1.5	0	10	0	0	0.5	0.1	1.5	3.0	light skin appearance, some stem end points	
AF6565-8	523	615	85	13	85	0	2	1.080	1.5	10	0	0	0	1.0	0.0	2.0	3.5	light skinappearance, uniform tubers, some stem end points	
MSBB617-02	511	555	92	6	92	0	2	1.074	1.5	20	0	20	0	0.5	0.0	1.0	3.0	big round tubers, some stem end points	
Mackinaw	505	564	89	10	89	0	0	1.082	1.5	0	0	0	0	0.5	0.0	1.0	3.5	uniform tuber shape	
AF6671-10	494	549	90	10	90	0	0	1.077	1.5	0	0	20	0	0.5	0.0	1.5	4.0	light skin appearance	
MSGG409-3	489	599	82	17	82	0	1	1.069	1.5	0	0	0	0	0.5	0.0	1.5	4.0	sheep nose	
Petoskey	489	562	87	12	87	0	1	1.092	1.5	0	0	0	0	1.0	0.0	1.0	3.0	uniform tuber type	
NY177	487	730	67	33	67	0	0	1.089	1.5	0	20	10	0	1.0	0.0	2.0	4.0	elongated blocky	
MSDD247-11	476	535	89	9	89	0	2	1.078	1.5	0	0	20	0	0.5	0.0	1.5	2.0	some stem end points, light skin appearance	
ND13220C-3	461	816	56	42	56	0	2	1.091	2.0	0	10	0	0	1.0	0.1	2.0	4.0	variable tuber size and shape, profuse heat sprouts, a lot of immature small tubers	
MSDD247-07	440	514	85	14	85	0	1	1.090	1.5	0	10	10	10	1.0	0.0	1.5	3.5	uniform small tubers	
MSEE035-4	436	502	87	10	87	0	4	1.079	1.5	30	0	10	0	1.5	0.0	1.0	4.0	uniform tuber type, misshapen	
MSAA076-6	409	514	80	19	80	0	2	1.079	1.5	0	10	10	0	1.5	0.1	2.0	3.0	variable tuber size	
Atlantic	407	464	88	11	88	0	1	1.080	2.0	0	0	30	10	0.5	0.1	2.0	3.0	blocky big tubers	
MSBB058-1	404	503	80	20	80	0	0	1.083	1.5	0	0	20	0	0.5	0.0	1.5	4.0	small round tubers	
B3403-6	370	499	74	25	74	0	1	1.088	1.5	10	0	0	0	1.0	0.0	1.5	3.5	nice looking uniform tubers, some stem end points	
MSEE031-3	338	441	77	20	77	0	4	1.074	1.5	0	20	10	0	1.0	0.2	2.0	4.0		
CMK2009-630-001	303	494	61	33	61	0	6	1.074	2.0	0	30	0	0	1.5	0.0	2.0	4.0	misshapes, knobs, sticky stolons	
MUI2014-011-023	193	439	44	55	44	0	1	1.080	2.5	0	30	0	0	1.0	0.3	2.5	4.0	golden skin appearance, smaller tuber size	
MEAN	477	585	81	17	81	0	1	1.081	1.6	3	6	7	1	0.8	0.0	1.6	3.4		

¹SIZE

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

% of total: Values rounded to the nearest whole number

²SPECIFIC GRAVITY³OUT OF THE FIELD CHIP

Total solids (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: 5/23/2025
Rating 1-5
1: Slow emergence
5: Early emergence (vigorous vines, some flowering)

⁸VINE MATURITY RATING

Date: 8/14/2025
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

FIELD DATA

Planting date 4/17/2025
Vine Kill Date NA
Harvest Date 8/14/2025
Days (planting to vine kill) NA
Days (planting to harvest) 119
CGDD₄₀ MAWN Station 3293
CGDD₄₀ (planting to vine kill) NA
Seed Spacing 10"

Cassopolis

Storage Chip Processing Trial, Lennard Ag Co., St. Joseph County

Planting: 05/12/2025 Vine Kill: 9/24/2025 Harvest: 9/29/2025

CGDD₄₀: 4191

LINE	CWT/A		PERCENT OF TOTAL ¹						OTF CHIP SCORE ²	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		HH	VD	IBS	BC					
MSGG409-3	603	648	93	5	93	0	2	1.082	1.0	0	10	20	10	0.5	0.3	1.0	3.5	medium netted, round oval, nice general appearance
MSHH018-3	580	599	97	3	96	1	0	1.075	1.0	10	20	0	0	0.5	0.3	1.5	3.0	round oval blocky, medium netted, medium skinning, sticky stolons, ok general appearance
MSEE035-4	528	622	85	10	85	0	5	1.080	1.0	20	0	70	0	1.5	0.6	1.0	3.0	knoby, growth cracks, fissuring
MSBB058-1	496	538	92	8	92	0	0	1.093	1.0	0	10	20	0	0.5	0.4	1.5	2.5	round oval, medium netted, sticky stolons, nice general appearance
Snowden	473	517	91	8	91	0	1	1.076	1.0	10	30	20	40	0.5	0.4	1.5	3.0	medium netted, round oval, medium skinning
NY174	455	492	92	7	92	0	1	1.082	1.0	10	40	10	0	0.5	0.5	1.5	3.0	medium netted, round ovals, nice general appearance, sticky stolons
NY177	448	545	82	16	82	0	2	1.086	1.0	0	40	30	0	2.0	0.2	1.5	3.0	light netted, purple blush, sheep nose
MSDD249-09	439	459	96	3	92	4	2	1.078	1.0	10	30	0	0	1.5	0.3	1.0	3.0	blocky, medium netted, sticky stolons
MSDD247-11	394	434	91	6	91	0	3	1.079	1.0	0	20	0	0	0.5	0.4	1.5	2.0	growth cracks, medium skinning, round size
Manistee	380	441	86	14	86	0	0	1.074	1.0	0	0	40	0	0.5	0.2	1.5	2.5	round oval, uniform size
Mackinaw	356	409	87	11	87	0	2	1.087	1.0	0	30	50	0	0.5	0.3	2.0	3.5	medium netted, pear shaped
MSDD247-07	350	367	95	4	95	0	1	1.091	1.0	0	20	70	0	0.5	0.1	1.5	2.0	medium netted, round oval
AF6671-10	348	412	84	11	84	0	5	1.083	1.0	10	40	0	0	0.5	0.5	1.0	3.0	light netted, round oval, blocky, uniform tuber type, nice general appearance
MSAA076-6	343	399	86	12	86	0	2	1.081	1.0	0	30	60	10	0.5	0.4	1.5	3.0	light netted, round oval
AF6200-7	298	346	86	6	86	0	8	1.085	1.0	10	10	10	0	1.0	0.3	1.0	2.5	light netted, flat round oval, pine-conning
Bliss	295	350	84	15	84	0	1	1.073	1.0	0	30	0	0	0.5	0.1	1.0	3.0	round oval
MSEE031-3	285	327	87	12	87	0	1	1.072	1.0	20	0	50	0	0.5	0.4	1.5	3.5	light netted, sticky stolons, round oval blocky
Petoskey	271	366	74	6	74	0	20	1.078	1.0	0	20	20	0	0.5	0.2	1.0	2.0	not uniform size, medium netted, misshaped, growth cracks
ND13220C-3	257	546	47	39	47	0	14	1.084	1.0	0	70	0	0	1.0	0.3	2.0	3.5	heat sprouts, points, knoby, not uniform size, light netted
MSBB617-02	249	282	88	3	88	0	9	1.070	1.0	10	40	10	0	0.5	1.4	1.0	2.5	medium netted, round oval, nice general appearance, fissuring
Lamoka	246	309	80	14	80	0	6	1.071	1.0	10	20	40	0	2.5	0.2	2.0	2.5	points
AF6565-8	186	245	76	24	76	0	0	1.072	1.0	0	0	0	0	1.0	0.2	1.0	3.0	small round size, medium netted,
CMK2009-630-001	122	365	33	62	33	0	4	1.070	1.0	0	20	0	0	2.0	0.2	2.0	2.0	yellow skin, points, small round oval, heat sprouts
MUI2014-011-023	77	365	21	59	21	0	20	1.072	1.0	10	30	0	0	0.5	0.3	2.0	2.5	yellow seed, knoby, points, small or round tubers
MEAN	353	433	81	15	80	0	5	1.079	1.0	5	23	22	3	0.9	0.4	1.4	2.8	

¹SIZE

Bs: < 1 7/8"

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

OV: > 3 1/4"

PO: Pickouts

% of total: Numbers rounded to whole numbers

²SPECIFIC GRAVITY

Total solids

³OUT OF THE FIELD CHIP COLOR

(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: 06/09/2025

Rating 1-5

1: Slow emergence

5: Early emergence (vigorous vines, some flowering)

⁸VINE MATURITY RATING

Date: 08/11/2025

Rating 1-5

1: Early (vines completely dead)

5: Late (vigorous vines, some flowering)

FIELD DATA

Planting date 5/12/2025

Vine Kill Date 9/24/2025

Harvest Date 9/29/2025

Days (planting to vine kill) 135

Days (planting to harvest) 140

CGDD₄₀ MAWN Station 4191 Constantine

CGDD₄₀ (planting to vine kill) 4048

Seed Spacing 10"

Storage Chip Processing Trial, Main Farms LLC, Montcalm County

Planting: 06/02/2025 Vine Kill: 09/13/2025 Harvest: 10/17/2025

CGDD₄₀: 3755

LINE	CWT/A		PERCENT OF TOTAL ¹				SP GR ²	OTF CHIP SCORE ³	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	HH	VD	IBS						BC
MSGG409-3	712	774	92	7	92	0	1	1.081	2.0	0	0	0	0	1.5	0.2	2.5	3.5	medium netted,large round tuber typet, trace of sticky stolons
Petoskey	564	755	75	9	75	0	17	1.073	2.0	20	10	0	40	1.5	0.0	2.0	2.5	severe growth, alligator hide, flat blocky tuber type, herbicide injury?
Mackinaw	423	504	84	16	84	0	0	1.094	1.5	0	0	0	0	2.0	0.0	2.5	3.0	flat round oval, small tuber type, light to medium netted
MSDD247-11	409	492	83	13	83	0	4	1.095	1.5	10	0	0	0	1.0	0.0	2.5	2.5	deep apical eye, medium to heavy netted, sheep nose, growth cracks
MSDD249-09	403	432	93	7	93	0	0	1.087	2.0	0	0	0	0	2.5	0.2	1.5	3.5	flat round oval, large tuber type, light netted
MSFF037-17	396	475	83	17	83	0	0	1.088	2.0	0	0	0	0	2.0	0.0	1.5	3.0	uniform tuber type, medium netted
NY177	350	424	82	18	82	0	0	1.093	1.5	0	0	0	0	2.5	0.0	2.5	3.0	blocky, flat round oval, medium netted
MSBB058-1	345	385	90	10	90	0	1	1.096	1.5	0	0	0	0	1.5	0.0	2.5	2.5	flat uniform round, medium netted, trace of growth cracks
MSFF038-3	336	545	62	38	62	0	0	1.095	1.5	0	0	0	0	3.0	0.0	3.5	3.0	flat round oval, not uniform, light to medium netted
Snowden	301	366	82	16	82	0	1	1.079	1.5	0	0	0	0	3.0	0.0	2.5	2.5	round blocky, medium netted
Manistee	293	375	78	22	78	0	0	1.076	1.5	0	0	0	0	4.0	0.0	2.0	2.0	medium heavy netted
MSEE031-3	293	345	85	10	85	0	5	1.077	1.5	0	10	0	0	1.0	0.0	3.0	2.5	blocky round, slight netted, misshappen pick outs
MSHH018-3	285	367	78	19	78	0	3	1.089	2.5	0	0	0	0	2.0	0.0	1.5	2.5	small round, medium netted, points
AF6671-10	283	327	87	12	87	0	1	1.083	1.5	0	20	0	0	2.0	0.0	1.5	2.5	blocky round, slight netted
Paige	246	400	61	37	61	0	1	1.095	1.5	0	0	0	0	2.0	0.0	2.0	3.5	round oval, medium netted, misshappen pick outs
AF6200-7	245	319	77	17	77	0	6	1.088	1.5	0	0	0	0	1.0	0.0	1.5	2.5	points
AF6565-8	239	308	78	19	78	0	3	1.082	2.0	0	0	0	0	2.0	0.0	1.5	3.5	medium netted, round,misshappen pick outs
NY174	233	328	71	28	71	0	1	1.098	1.5	0	0	0	0	2.0	1.1	2.5	2.5	round oval, light netted
MSEE035-4	231	298	77	20	77	0	3	1.089	1.5	20	0	0	0	0.5	0.2	2.5	3.0	beautiful round tuber type, medium netted, growth cracks, misshappen pick outs, slight hide skin
Lamoka	228	289	79	20	79	0	1	1.081	1.5	0	0	0	0	2.0	0.2	2.0	2.5	flat oval, light netted
MSGG409-2	228	313	73	26	73	0	1	1.088	1.5	0	0	0	0	1.5	0.1	1.5	2.5	small round oval, medium netted
MSDD247-07	209	270	77	20	77	0	3	1.090	1.5	0	0	0	0	1.5	0.0	1.5	2.5	small round , not uniform, medium netted
MSBB617-02	201	234	86	10	86	0	4	1.074	2.0	10	0	0	0	1.0	0.0	1.5	3.0	blocky round oval, medium netted, misshappen pick outs
Bliss	197	230	85	15	85	0	0	1.082	1.5	0	0	0	10	1.0	0.1	2.5	2.5	flat round oval, medium tuber size
MSAA076-6	174	240	72	27	72	0	0	1.081	1.5	0	0	0	0	1.5	0.0	3.0	2.0	blocky round, medium size tuber type, light netted
MUI2014-011-023	104	287	36	62	36	0	2	1.078	1.5	20	0	0	0	4.0	0.1	2.0	2.5	points, small round
CMK2009-630-001	55	238	23	68	23	0	9	1.075	2.0	30	0	0	0	3.5	0.2	3.0	2.5	flat round oval oblong
MEAN	296	382	76	22	76	0	3	1.085	1.0	0	1	0	2	2.0	0.1	2.2	2.7	

¹SIZE

Bs: < 1 7/8"
As: 1 7/8" - 3 1/4"
OV: > 3 1/4"
PO: Pickouts
% of total: Values rounded to the nearest whole number

²SPECIFIC GRAVITY ³OUT OF THE FIELD CHIP

Data not replicated
(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: 06/27/2025
Rating 1-5
1: Slow emergence
5: Early emergence (vigorous vines, some flowering)

⁸VINE MATURITY RATING

Date: 8/20/2025
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

FIELD DATA

Planting date 6/2/2025
Vine Kill Date 9/13/2025
Harvest Date 10/17/2025
Days (planting to vine kill) 103
Days (planting to harvest) 137
CGDD₄₀ MAWN Station 3755 Entrican/Lakeview
CGDD₄₀ (planting to vine kill) 2998
Seed Spacing 10"

Storage Chip Processing Trial, MPIC Box Bin, Montcalm Research Center, Montcalm County

Planting: 05/8/2025 Vine Kill: 9/02/2025 Harvest: 10/01/2025

CGDD₄₀: 3878

LINE	CWT/A		PERCENT OF TOTAL ¹					SP GR ²	OTF CHIP SCORE ³	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			HH	VD	IBS	BC					
NY174	510	549	92	4	91	1	3	1.084	1.0	0	10	0	0	2.0	0.3	3.5	2.5	flat blocky, round oval, medium netted, misshapen pickouts
MSGG409-2	458	492	93	6	89	4	0	1.077	1.0	20	0	0	0	1.5	0.4	2.5	3.0	large blocky round, heavy netted, lots of growth cracks
MSEE035-4	456	491	93	4	93	0	3	1.080	1.0	0	0	0	0	1.5	0.4	2.5	2.5	blocky round tuber type, light medium netted
MSBB058-1	385	426	90	6	90	0	4	1.085	1.0	0	0	0	0	0.5	0.3	3.0	2.0	blocky round, medium netted, misshapen pickouts, trace of growth cracks
MSGG426-2	382	400	95	4	94	1	1	1.076	1.0	0	0	0	0	1.0	0.4	2.5	1.5	slight rot, light netted, round to oval, deep apical eye
MSHH018-3	382	413	93	6	93	0	1	1.075	1.0	0	0	0	0	2.0	0.2	2.5	1.5	not uniform tuber type, light netted
MSGC20-16	362	415	87	8	87	0	5	1.080	1.0	0	0	10	0	1.0	0.1	4.0	1.5	medium netted, blocky round oval
MSGB02-02	348	397	88	11	88	0	1	1.084	1.0	20	0	0	0	1.5	0.1	2.5	2.0	medium heavy netted, blocky oval
ND13220C-3	348	511	68	25	68	0	7	1.092	1.0	0	0	0	10	2.0	0.2	4.0	3.5	not uniform tuber type, light netted
MSGG409-3	344	416	83	16	83	0	1	1.074	1.0	0	0	0	0	1.5	0.3	3.0	3.0	blocky round oval, light to medium netted
AF6200-7	336	359	94	4	94	0	2	1.087	1.0	0	0	0	0	2.0	0.3	2.5	1.5	medium netted, flat round oval blocky
Snowden	330	376	88	12	88	0	0	1.076	1.0	10	0	0	0	2.0	0.3	2.0	2.0	medium netted
MSDD247-11	328	354	93	7	93	0	0	1.080	1.0	0	30	0	0	1.0	0.3	3.0	1.5	small round tuber type, heavy netted, skin cracking, fissuring
MSGA24-02	328	374	88	8	88	0	4	1.084	1.0	0	20	0	0	1.0	0.4	3.5	3.5	growth cracks, misshapen pickouts, round blocky tuber type, heavy netted
MSFF037-17	316	349	91	8	91	0	1	1.075	1.0	10	40	0	0	2.0	0.3	2.5	2.0	flat round tuber type, light medium netted, uniform general appearance
MSEE031-3	313	363	86	12	86	0	2	1.075	1.0	0	20	0	0	0.5	0.5	3.0	1.5	slight netted, slight skinning, blocky round
MSAA076-6	296	345	86	7	86	0	7	1.088	1.0	0	50	0	0	1.5	0.1	2.5	2.0	blocky round tuber type, light netted
AF6565-8	292	331	88	11	88	0	1	1.078	1.0	0	0	0	0	1.5	0.1	2.0	2.0	light netted, round tuber type
Kal 91.3	284	346	82	16	82	0	2	1.078	1.0	30	0	0	0	1.5	0.3	3.0	2.0	light medium netted, not uniform tuber type
AF6671-10	281	328	86	13	86	0	2	1.077	1.0	0	20	0	0	1.0	0.3	3.5	1.5	medium netted, not uniform tuber type
AF6206-5	276	350	79	17	79	0	5	1.087	1.0	0	0	0	0	2.5	0.2	3.0	2.0	round uniform blocky, medium light netted
NY177	274	374	73	24	73	0	2	1.094	1.0	0	10	0	0	2.0	0.5	2.5	1.5	oval round, light medium netted, misshapen pickouts
MSDD247-07	258	292	89	4	89	0	8	1.089	1.0	10	30	0	0	1.5	0.1	3.0	2.5	flat blocky, growth cracks
Bliss	256	331	77	11	77	0	11	1.077	1.0	0	20	0	0	1.0	0.3	2.0	2.0	knobby, light netted
MSDD249-09	250	281	89	4	88	1	7	1.080	1.0	0	10	10	0	1.5	0.4	2.5	2.0	light netted, flat round tuber type, growth cracks, not uniform tuber type
CMK2009-630-001	221	341	65	32	65	0	3	1.080	1.0	0	10	0	10	2.0	0.2	4.0	1.5	smaller oval to oblong, medium netted
MSBB617-02	219	228	96	4	96	0	0	1.068	1.0	40	0	0	0	0.5	0.2	2.5	1.5	not uniform tuber type, medium netted, deep eyes
AF5933-4	208	280	74	26	74	0	0	1.081	1.0	10	30	0	10	2.0	0.2	3.0	1.0	small uniform round, light netted
Elevate	201	255	79	21	79	0	0	1.072	1.0	10	90	0	0	2.5	0.2	3.5	1.5	light medium netted, not uniform tuber type
B3403-6	192	228	84	11	84	0	5	1.088	1.0	0	10	0	0	2.0	0.2	2.5	2.5	light medium netted, not uniform tuber type
Lamoka	170	229	74	12	73	1	14	1.076	1.0	0	40	0	0	1.5	0.2	3.0	2.0	growth cracks, light netted, flat oval oblong, not uniform tuber type
MSFF038-3	169	208	81	19	81	0	0	1.071	1.0	0	0	0	0	1.0	0.4	2.5	2.0	small to medium tuber type, medium netted
MEAN	305	357	85	12	85	0	3	1.080	1.0	5	14	1	1	1.5	0.3	2.9	2.0	

¹SIZE

Bs: < 1 7/8"
As: 1 7/8" - 3 1/4"
OV: > 3 1/4"
PO: Pickouts
% of total: Values rounded to the nearest whole number

²SPECIFIC GRAVITY³OUT OF THE FIELD CHIP COLOR

Total solids (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: 6/20/2025
Rating 1-5
1: Slow emergence
5: Early emergence (vigorous vines, some flowering)

⁸VINE MATURITY RATING

Date: 8/20/2025
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

FIELD DATA

Planting date 5/8/2025
Vine Kill Date 9/2/2025
Harvest Date 10/1/2025
Days (planting to vine kill) 117
Days (planting to harvest) 146
CGDD₄₀ MAWN Station 3878 Entrican/Lakeview
CGDD₄₀ (planting to vine kill) 3207
Seed Spacing 10"

Potatoes USA/SNAC Trial, Sandyland Farms, Montcalm County

Planting: 5/5/2025 Vine Kill: 9/2/2025 Harvest: 10/13/2025

CGDD40: 4153

LINE	CWT/A		PERCENT OF TOTAL ¹				PO	SP GR ²	OTF CHIP SCORE ³	RAW TUBER QUALITY ⁴ (%)				COMMON SCAB RATING ⁵	VINE VIGOR ⁷	VINE MATURITY ⁸	COMMENTS
	US#1	TOTAL	US#1	Bs	As	OV				HH	VD	IBS	BC				
NY174	626	706	89	10	89	0	1	1.085	1.0	0	17	0	0	2.0	1.5	3.5	large blocky round oval, light netted, trace of pear shapes, moderate skinning
Snowden	533	593	90	9	90	0	2	1.079	1.0	10	10	7	10	2.5	1.5	3.0	medium to heavy netted, blocky round
AF6565-8	505	573	88	11	88	0	1	1.085	1.0	3	13	3	0	2.0	1.0	3.0	blocky round uniform tuber type, med netted, moderate skinning, deep apical eye, trace of growth cracks
W17AF6670-1	503	583	86	13	86	0	0	1.080	1.0	0	17	3	3	2.0	1.5	3.0	flat round oval, medium netted
MSBB058-1	486	527	92	7	92	0	1	1.082	1.0	0	3	0	0	1.8	1.5	3.0	growth cracks, deep apical eye, medium netted, slight skinning, alligator hide
NY177	475	613	78	22	78	0	1	1.088	1.0	0	33	0	0	2.0	1.5	4.0	heavy netted, flat round oval, mod skinning
W17066-34	424	508	83	16	83	0	1	1.079	1.0	0	20	0	0	1.0	1.5	3.0	round oval, med netted, trace of growth cracks
Lamoka	421	482	87	9	87	0	4	1.076	1.0	0	13	0	0	1.0	1.5	2.5	flat oval pear shaped, light to medium netted, points, slight skinning
ND13220C-3	399	657	60	36	60	0	4	1.097	1.0	10	7	0	0	3.0	2.0	4.0	flat oval to oblong, not uniform, mishapen, points
AF6206-5	366	424	86	12	86	0	2	1.090	1.0	0	20	0	0	2.3	1.5	2.5	blocky round oval, severe skinning, trace of growth cracks
MEAN	474	567	84	15	84	0	2	1.084	1.0	2	15	1	1	2.0	1.5	3.2	

¹SIZE

Russets

Bs: < 4 oz

As: 4 - 10 oz

OV: > 10 oz

PO: Pickouts

% of total: Values are rounded to the nearest whole number

²SPECIFIC GRAVITY

Total solids

³RAW TUBER QUALITY

(percent of tubers out of 10)

HH: Hollow Heart

VD: Vascular Discoloration

IBS: Internal Brown Spot

BC: Brown Center

⁴COMMON SCAB RATING

0.0: Complete absence of surface or pitted lesions

1.0: Presence of surface lesions

2.0: Pitted lesions on tubers, though coverage is low

3.0: Pitted lesions common on tubers

4.0: Pitted lesions severe on tubers

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

⁵VINE VIGOR RATING

Date: 6/5/2025

Rating 1-5

1: Slow emergence

5: Early emergence (vigorous vine, some flowering)

FIELD DATA

Planting Date 5/5/2025

Vine Kill Date 9/2/2025

Harvest Date 10/13/2025

Days (planting to vine kill) 120

Days (planting to harvest) 161

CGDD₄₀ MAWN Station 4153 Entrican/Lakeview

CGDD₄₀ (planting to vine kill) 3263

Seed Spacing 10"

⁶VINE MATURITY RATING

Date: 8/10/2025

Rating 1-5

1: Early (vines completely dead)

5: Late (vigorous vines, some flowering)

Fresh Chip Processing Trial, Walther Farms, St. Joseph County

Planting: 4/24/2025 Vine Kill: NA Harvest: 08/25/25

CGDD₄₀: 3502

LINE	CWT/A		PERCENT OF TOTAL ¹						SP GR ²	OTF CHIP SCORE ³	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	HH			VD	IBS	BC						
MSHH018-3	747	806	93	7	93	0	0	1.068	1.0	0	10	0	0	0.0	0.0	1.0	2.5	blocky uniform, medium netted, slight skinning, nice general appearance	
MSFF038-3	743	797	93	6	93	0	1	1.072	1.0	0	0	10	10	1.5	0.0	1.0	2.5	flat round oval, medium netted, slight skinning, sheep nose	
MSAA076-6	735	818	87	11	87	0	2	1.085	1.5	0	0	70	0	1.0	0.0	1.0	2.5	dark uniform tubers, flat round oval, traces of sticky stolons, severe heat necrosis	
ND13220C-3	729	911	79	19	79	0	1	1.080	1.5	0	10	0	0	1.0	0.0	1.0	3.0	heat sprouts, not uniform tuber shape, misshapes, moderateerate skinning	
NY177	703	834	84	15	84	0	1	1.092	1.0	0	0	0	0	1.5	0.0	1.0	2.5	flat pear shaped, medium netted, moderate skinning, misshapes	
MSDD247-11	700	762	92	7	92	0	1	1.077	1.0	0	0	0	10	0.5	0.1	1.0	2.5	obscure skin cracking (herbicide injury?), few points, variable tuber shape	
B3403-6	683	768	89	11	89	0	0	1.082	1.5	0	0	0	0	2.0	0.0	1.0	2.5	moderate skinning, nice appearance, uniform tubers	
AF5933-4	674	741	91	9	91	0	0	1.075	1.0	0	40	0	0	2.5	0.4	1.0	2.5	misshapes, uniform round oval blocky tubers, light skin appearance	
MSEE035-4	649	715	91	8	90	1	1	1.083	1.5	20	0	10	0	1.5	0.0	1.0	3.0	severe skinning, flat round oval blocky, misshapes	
Paige	636	737	86	11	86	0	2	1.081	1.0	0	10	0	10	2.0	0.0	1.0	3.0	flat oval, dark uniform type, sticky stolons, medium netted, moderate skinning	
CMK2009-630-001	618	790	78	21	78	0	2	1.074	1.0	30	10	0	0	2.0	0.1	1.0	2.5	variable tuber shape, moderate skinning, medium netted	
MSGG426-2	607	657	92	7	92	0	1	1.073	1.5	0	20	0	0	0.5	0.3	1.0	2.5	blocky round oval, medium netted, slight points	
MSDD249-09	586	610	96	4	96	0	0	1.076	1.5	0	10	0	0	0.5	0.0	1.0	2.5	blocky round oval, slight skinning, medium netted	
MSDD247-07	569	622	91	7	91	0	2	1.093	1.0	0	0	10	0	1.0	0.0	1.0	2.5	variable tubers size, medium netted, some points, traces of skinning	
AF6200-7	557	579	96	3	96	0	0	1.087	1.0	0	0	0	0	0.0	0.0	1.0	2.5	tuber rots, flat round oval, moderate skinning	
Snowden	504	580	87	12	87	0	0	1.070	1.0	0	10	20	0	0.0	0.2	1.0	2.5	round blocky, moderate skinning, traces of points	
MSEE031-3	495	561	86	13	86	0	1	1.072	1.5	0	10	20	0	0.0	0.4	1.0	2.5	dark skin uniform tubers, flat round oval, misshapes	
MSGG409-3	480	585	82	16	82	0	2	1.072	1.0	0	0	10	0	0.0	0.0	1.0	3.0	moderate to severe skinning, misshapes, some blistered chips	
Bliss	444	509	87	11	87	0	1	1.068	1.5	0	10	0	0	1.5	0.1	1.0	2.5	blocky round oval, not uniform, misshapes, typical purplish bud end	
MUI2014-011-023	441	663	67	31	67	0	3	1.081	1.5	0	40	10	0	2.0	0.4	1.0	2.0	misshapes, small size, oval oblong, some blistered chips	
MSBB617-02	414	473	88	12	88	0	1	1.072	1.5	0	20	0	0	0.5	0.1	1.0	2.5	small uniform round tubers, moderate skinning, heavy netted	
AF6671-10	335	378	89	10	89	0	2	1.070	1.0	0	0	0	0	0.5	0.0	1.0	2.5	traces of rots, moderate skinning, large tubers	
Atlantic	286	345	83	13	83	0	4	1.075	1.5	20	20	20	0	2.0	0.2	1.0	2.0	not uniform tuber type, very long size profile	
MEAN	580	663	87	12	87	0	1	1.077	1.2	3	10	8	1	1.0	0.1	1.0	2.5		

¹SIZE

Bs: < 1 7/8"
As: 1 7/8" - 3 1/4"
OV: > 3 1/4"
PO: Pickouts
% of total: Values rounded to the nearest whole number

²SPECIFIC GRAVITY³OUT OF THE FIELD CHIP COLOR

Total solids (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: 5/23/2025
Rating 1-5
1: Slow emergence
5: Early emergence (vigorous vines, some flowering)

⁸VINE MATURITY RATING

Date: 8/11/2025
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

FIELD DATA

Planting date: 4/24/2025
Vine Kill Date: NA
Harvest Date: 8/25/2025
Days (planting to vine kill): NA
Days (planting to harvest): 123
CGDD₄₀ MAWN Station: 3501.7 Constantine
CGDD₄₀ (planting to vine kill): NA
Seed Spacing: 10"

Storage Chip Processing Replicated Trial, Walther Farms, St. Joseph County

Planting: 04/24/2025 Vine Kill: 08/21/2025 Harvest: 9/02/2025

CGDD₄₀: 3675

LINE	CWT/A		PERCENT OF TOTAL ¹					SP GR ²	OTF CHIP SCORE ³	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			HH	VD	IBS	BC					
MSHH018-3	711	773	92	7	91	1	1	1.073	1.5	0	3	27	0	0.0	0.2	2.3	2.5	round blocky, medium netted, slight skinning, misshapes, nice general appearance
MSGG409-3	653	758	86	12	86	0	2	1.078	1.5	0	17	23	0	0.8	0.8	2.8	2.7	small round tuber type, trace of pear shapes, moderate skinning, medium netted
MSBB058-1	636	685	93	7	93	0	0	1.091	1.5	0	7	7	0	2.0	0.2	2.6	2.3	blocky round tuber type, heavy netted, moderate skinning, trace growth cracks
AF6200-7	612	639	95	3	95	0	2	1.089	2.5	0	23	3	0	1.3	2.1	2.8	2.2	flat round oval blocky, medium netted, deep apical eye, moderate skinning
MSFF038-3	605	646	93	5	93	0	2	1.074	1.5	0	3	27	0	1.0	0.5	2.7	2.0	heavy netted, blocky round oval, trace of heat sprouts, moderate skinning
AF5933-4	604	654	92	8	92	0	0	1.079	1.5	0	60	0	0	2.3	0.5	2.8	1.8	blocky roundoval, medium netted, light netted
MSDD249-09	604	629	96	3	94	2	1	1.078	1.5	0	23	0	0	1.2	0.8	2.6	2.5	large blocky round, medium netted, sticky stolons, heat sprouts,
MSEE035-4	598	669	89	8	89	0	3	1.084	2.0	7	0	23	0	1.2	0.7	2.3	3.0	blocky round, medium netted, moderate skinning, trace of pear shape
Paige	598	709	84	14	84	0	1	1.080	1.5	3	33	0	0	1.3	1.0	2.6	3.0	flat round oval, medium netted, moderate skinning, growth cracks, not uniform tuber type
AF6565-8	594	667	89	8	89	0	3	1.080	1.5	3	13	0	0	1.0	0.8	2.5	2.3	flat round oval, medium netted, not uniform, trace of pear shape, growth cracks
Petoskey	592	641	92	7	92	0	1	1.085	1.5	0	23	0	0	0.8	0.5	2.6	2.2	blocky round, medium netted, slight skinning
MSGG276-4	589	638	93	8	92	1	0	1.073	1.5	23	0	0	1	0.0	0.6	2.7	2.7	blocky round, heavy netted, slight skinning
MSAA076-6	581	654	89	9	89	0	1	1.083	-	0	3	50	13	1.0	-	2.8	2.5	pear shape, heat sprouts, light netted skin, moderate skinning
Bliss	579	642	90	8	90	0	2	1.080	2.5	0	40	7	0	1.5	0.3	2.2	2.5	blocky round oval, ligh netted, trace of growth cracks, points
NY177	548	659	83	14	83	0	3	1.091	1.5	0	13	20	0	1.2	0.6	3.0	2.5	nice uniform tuber type, light medium netted, oval blocky tuber
MSFF037-17	535	589	91	9	91	0	0	1.076	1.5	0	3	70	0	0.6	0.2	2.2	2.7	blocky round oval, moderate sticky stolons, moderate skinning,
MSDD247-11	533	562	95	4	95	0	1	1.081	1.5	0	17	3	3	0.3	0.5	2.5	2.0	heavy netted, uniform blocky round, trace of points, pear shape
NY174	533	584	91	7	91	0	1	1.081	1.5	0	23	0	0	1.3	0.2	3.0	2.6	round blocky oval tuber type, trace of knobs, medium netted, slight skinning
AF6206-5	526	607	86	8	86	0	5	1.082	1.5	0	37	0	0	1.8	1.0	2.5	2.5	blocky tuber not uniform tuber type, poor general appearance, medium netted,
MSGG409-2	524	590	89	10	89	0	1	1.069	2.0	0	3	63	0	2.0	0.5	2.5	3.0	round oval tuber type, medium netted, uniform tuber type, heavy netted
Mackinaw	523	611	85	10	85	0	5	1.081	1.5	0	47	0	0	0.8	0.3	3.2	3.0	heat sprouts, round to oval, pear shape, medium netted
ND13220C-3	513	737	69	25	69	0	5	1.085	-	3	13	0	7	2.2	-	3.3	3.0	msshapes, heat sprouts, non uniform type, immature tubers, moderate skinning
MSDD247-07	511	556	92	7	92	0	1	1.092	1.5	0	7	33	0	1.0	0.7	2.6	2.1	blocky round, medium netted, slight skinning, not uniform
Snowden	509	571	89	11	89	0	0	1.078	2.0	0	57	3	0	0.8	0.7	3.0	2.5	heavy netted, uniform round tuber type, slight skinning
AF667-10	503	544	92	7	92	0	1	1.082	1.5	3	16	0	0	0.3	0.7	2.6	2.3	blocky round oval, severe skinning, medium netted
MSEE031-3	478	558	85	11	85	0	3	1.077	1.5	0	50	7	0	1.0	0.8	3.1	2.5	flat blocky round, not uniform tuber type, medium netted, growth cracks, heat sprouts
CMK2009-630-001	461	576	80	15	80	0	4	1.078	1.5	0	10	0	0	1.6	0.1	3.2	2.2	sticky stolons, goldenn yellow appearance, medium netted, points, heat sprouts, poor general appearance
MSGG426-2	445	493	90	9	90	0	1	1.080	2.0	0	40	0	0	1.0	0.8	2.5	2.6	heavy netted, not uniform tuber type, poor general appearance
MSBB617-02	349	385	87	6	86	1	4	1.075	1.5	0	23	17	0	1.0	0.2	2.5	2.5	poor tuber type, poor plot yield, apical cracking, heavy netted, slight skinning
MUI2014-011-023	331	521	63	25	63	0	8	1.080	-	0	23	23	0	2.0	-	3.0	2.2	heat sprouts, misshapes, yellow skin appearance, medium netted, points
MEAN	546	618	89	10	88	0	2	1.081	1.6	1	21	14	1	1.1	0.6	2.7	2.5	

¹SIZE

Bs: < 1 7/8"
As: 1 7/8" - 3 1/4"
OV: > 3 1/4"
PO: Pickouts
% of total: Values rounded to the nearest whole number

²SPECIFIC GRAVITY³OUT OF THE FIELD CHIP

Data not replicated
(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
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0: No stem end defect
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2: Slight stem end defect
3: Moderate stem end defect
4: Severe stem end defect
5: Extreme stem end defect

⁷VINE VIGOR RATING

Date: 06/9/2025
Rating 1-5
1: Slow emergence
5: Early emergence (vigorous vines, some flowering)

⁸VINE MATURITY RATING

Date: 8/11/2025
Rating 1-5
1: Early (vines completely dead)
5: Late (vigorous vines, some flowering)

FIELD DATA

Planting date: 4/24/2025
Vine Kill Date: 8/21/2025
Harvest Date: 9/2/2025
Days (planting to vine kill): 119
Days (planting to harvest): 131
CGDD₄₀ MAWN Station: 3675 Constantine
CGDD₄₀ (planting to vine kill): 3397
Seed Spacing: 10"