

Table 4

MICHIGAN STATE UNIVERSITY
POTATO BREEDING and GENETICSADAPTATION TRIAL, TABLESTOCK LINES
MONTCALM RESEARCH CENTER
May 09 to September 14, 2017 (128 days)
DD Base 40°F 2935⁶

LINE	CWT/A		PERCENT OF TOTAL ¹						PERCENT (%) TUBER QUALITY ²						MAT ⁴	BRUISE ⁵	LB RAUDPC x100
	US#1	TOTAL	US#1	Bs	As	OV	PO	SP	GR	HH	VD	IBS	BC	SCAB ³			
Jelly	2	555	590	94	2	76	18	4	1.082	0	0	10	0	2.2	3.5	0.4	-
Cerrata	2	540	581	93	5	85	8	2	1.074	0	0	0	0	1.8	3.5	0.2	14.8
Musica	2	504	604	84	12	78	6	4	1.077	0	25	0	0	2	3.0	1.0	6.7
MSW125-1	4	468	514	89	6	81	8	5	1.079	0	18	0	0	0.8	3.8	0.4	18.4
Melou	2	466	564	83	15	83	0	2	1.063	0	30	0	0	2.2	2.0	0.2	-
W9576-11Y	2	451	495	91	8	88	3	1	1.062	0	10	0	0	1.3	1.0	0.1	45.8
MSW125-3	4	427	456	94	6	86	7	1	1.061	0	15	8	0	1.7	1.5	0.3	24.2
Julinka	2	409	505	81	16	80	1	3	1.070	0	15	0	0	1.8	2.0	0.3	24.1
Allora	2	408	454	90	6	79	11	4	1.072	0	15	0	0	2.2	2.5	0.8	29.0
Onaway	2	406	447	91	4	75	15	5	1.070	0	20	0	0	2	1.5	0.8	39.1
MSV301-02	4	402	431	93	6	90	3	1	1.086	0	3	0	5	1.3	2.5	0.4	-
Superior	3	394	416	95	4	89	6	2	1.077	0	13	3	0	1.2	1.3	0.5	33.8
Reba	2	394	426	92	6	81	12	2	1.076	0	5	0	0	2.2	2.5	0.5	39.3
NY149	2	390	453	86	13	85	1	1	1.081	0	5	0	0	1.8	2.5	0.2	30.8
NY161	2	379	447	85	15	85	0	0	1.075	0	5	0	5	1.7	2.0	0.4	32.4
Elfe	2	359	418	86	10	78	8	3	1.064	0	10	5	30	2.7	1.0	0.1	-
Montreal	2	357	436	81	11	74	7	8	1.070	0	15	5	0	2.3	2.5	2.0	29.5
Yukon Gold	3	353	372	95	4	84	10	1	1.083	0	3	0	0	2.2	1.0	0.5	30.8
Madison	2	348	378	92	7	86	6	1	1.101	20	10	0	0	2.0	1.5	1.1	-
Oneida Gold	2	348	381	91	7	88	3	1	1.081	0	5	10	0	1	3.0	1.1	15.5
Viviana	2	345	399	86	13	86	1	1	1.065	0	30	0	0	3	1.0	1.6	40.8
MSU161-1	4	345	395	87	10	84	3	3	1.075	0	8	3	3	2.2	3.0	0.9	12.2
Wega	2	340	467	73	26	70	2	1	1.059	5	20	10	0	1.5	2.0	0.2	23.3
NY157	2	339	393	86	13	82	4	0	1.084	0	5	0	0	2	2.5	1.2	22.2
Alegria	2	336	387	87	9	86	1	4	1.080	0	20	0	0	2.0	2.5	0.3	28.3
NDAF102629C-4	2	318	360	89	10	85	4	1	1.071	0	10	0	0	1.7	1.5	0.1	29.1
Wendy	2	316	493	64	34	63	1	2	1.064	0	10	0	0	3	2.5	0.5	24.9
MSW316-3PY	4	294	390	72	19	72	0	9	1.077	0	10	0	0	1.7	4.0	0.5	33.3
MSS576-5SPL	4	294	316	93	6	80	12	2	1.077	0	5	0	3	1.8	3.0	0.6	14.7
MST075-1R	4	292	343	83	10	78	5	7	1.074	0	3	0	0	1.7	3.0	0.4	-
MSU383-A	4	265	298	85	13	80	5	2	1.063	0	15	3	0	1.3	1.8	0.2	-
MSW148-1P	4	240	366	66	31	66	0	3	1.086	0	0	0	0	2.3	3.0	0.9	-
MSX324-1P	4	207	258	79	18	78	1	2	1.085	0	0	3	0	0.8	1.3	1.1	25.8
Ciklaman	2	147	330	45	52	45	0	3	1.092	0	5	0	0	2.5	2.0	0.8	3.2
MSX569-1R	4	111	141	79	17	76	4	3	1.059	0	30	8	0	1.5	1.3	0.3	47.0
Lollipop	2	58	219	24	75	24	0	0	1.070	0	0	0	0	0.7	2.5	0.8	35.8
MEAN		350	414						1.075					1.8	2.2	0.6	
HSD _{0.05}		189	228						0.010								

¹SIZE: B: < 2 in.; A: 2-3.25 in.; OV: > 3.25 in.; PO: Pickouts.²QUALITY: HH: Hollow Heart; BC: Brown Center; VD: Vascular Discoloration; IBS: Internal Brown Spot. Percent of 40 Oversize and/or A-size tubers cut.

Plant Date: 5/9/2017

³SCAB DISEASE RATING: MSU Scab Nursery; 0: No Infection; 1: Low Infection <5%; 3: Intermediate; 5: Highly Susceptible.

Vine Kill: 8/31/2017

⁴MATURITY RATING: August 29, 2017; Ratings 1-5; 1: Early (vines completely dead); 5: Late (vigorous vine, some flowering).

Days from planting to vine kill: 114

⁵BRUISE: Simulated blackspot bruise test average number of spots per tuber.⁶Enviroweather: Entrican Station. Planting to vine kill