

**Upstate New York Table 18. Total yield, marketable yield, percentage of yield by grade size distribution, mean tuber number per foot and weight, and specific gravity for the organic grown variety trial at Freeville, New York - 2004.**

Genotype Variety or Clone	Total Yield Cwt/A	Mkt. Yield		Size Distribution <sup>1</sup> ( % of total yield )					Size Distrib. (%)		Mean Tuber		Spec. Grav.
		Cwt/A	% of Std.	1	2	3	4	5	1-7/8"	2-1/2"	#/ft.	wt.(oz.)	
									to 4"	to 4 "			
ADIRONDACK BLUE	238	150	58	26	74	0	0	0	74	0	9.0	2.7	83
ALL BLUE	207	120	46	36	64	0	0	0	64	0	9.4	2.3	84
ALLEGANY	107	80	31	23	70	7	0	0	77	7	4.0	2.8	66
AC89536-5RU	307	187	72	30	59	11	0	0	70	11	8.0	4.0	87
AF1758-7	118	88	34	18	74	8	0	0	82	8	4.3	2.8	63
ATLANTIC	295	260	100	5	64	32	0	0	95	32	8.4	3.7	97
ATX98465-1R/Y	199	137	53	21	69	11	0	0	79	11	7.6	2.7	65
ATX84378-1RU	163	69	27	30	57	13	0	0	70	13	3.6	4.7	80
ATX84706-2RU	225	152	58	11	55	34	0	0	89	34	4.2	5.6	85
ATX85404-8W	269	211	81	19	76	5	0	0	81	5	10.0	2.8	88
ATX91137-1RU	231	151	58	23	72	5	0	0	77	5	5.9	4.0	80
BINJTE	273	130	50	48	52	0	0	0	52	0	12.1	2.4	86
BOULDER	120	108	42	1	56	37	6	0	99	42	2.5	4.9	76
BTX1544-2W/Y	186	152	58	10	90	0	0	0	90	0	6.5	3.0	81
CAROLA	196	135	52	18	76	3	3	0	82	6	6.6	3.1	79
CASTILE	236	205	79	7	62	30	0	0	93	30	5.8	4.3	85
CHIEFTAIN	303	267	103	10	90	0	0	0	90	0	9.5	3.3	80
CO93037-6R	241	199	77	10	52	39	0	0	90	39	6.8	3.7	74
DAKOTA JEWEL	192	167	64	7	86	7	0	0	93	7	6.8	2.9	80
DARK RED NORLAND	188	144	55	15	79	6	0	0	85	6	6.2	3.1	75
ELBA	191	148	57	13	65	22	0	0	87	22	6.2	3.2	74
ERAMOSA	163	138	53	1	38	55	0	6	93	55	2.9	5.8	83
EVA	219	180	69	6	70	24	0	0	94	24	5.9	3.9	80
GEMSTAR RUSSET	195	137	53	26	68	6	0	0	74	6	5.1	4.0	89
GREEN MOUNTAIN	266	162	62	37	63	0	0	0	63	0	12.1	2.3	84
JAQUELINE LEE	235	143	55	36	64	0	0	0	64	0	9.8	2.5	78
KATAHDIN	241	205	79	12	77	11	0	0	88	11	7.3	3.4	79
KEUKA GOLD	276	227	87	17	76	7	0	0	83	7	10.2	2.8	78

(continued)

**Upstate New York Table 18. -(cont'd)- Total yield, marketable yield, percentage of yield by grade size distribution, mean tuber number per foot**

**and weight, and specific gravity for the organic grown variety trial at Freeville, New York - 2004.**

Genotype Variety or Clone	Total Yield Cwt/A	Mkt. Yield		Size Distribution <sup>1</sup> ( % of total yield )					Size Distrib. (%)		Mean Tuber		Spec. Grav.
		Cwt/A	% of Std.	1	2	3	4	5	1-7/8" to 4"	2-1/2" to 4 "	#/ft.	wt.(oz.)	
L235-4	354	301	116	13	78	10	0	0	87	10	12.2	3.0	83
MARCY	164	120	46	21	62	17	0	0	79	17	5.6	3.0	76
MICHIGAN PURPLE	209	184	71	8	56	36	0	0	92	36	5.6	4.0	77
MN98001-4	157	126	49	19	70	11	0	0	81	11	4.6	3.6	89
MN99144-1	113	69	27	39	58	3	0	0	61	3	5.0	2.4	88
MN99380-1	114	63	24	38	62	0	0	0	62	0	5.0	2.4	74
MN99460-14	103	92	35	10	64	26	0	0	90	26	3.9	2.8	78
MSG227-2	170	137	53	17	60	23	0	0	83	23	5.0	3.6	87
MSJ461-1	180	114	44	36	60	3	0	0	64	3	8.2	2.3	84
MWTX548-2RU	248	198	76	19	72	8	0	0	81	8	6.6	3.9	88
MWTX2609-2RU	201	121	47	37	63	0	0	0	63	0	7.1	3.0	86
MWTX2609-4RU	224	105	40	53	47	0	0	0	47	0	7.6	3.1	90
NDTX4271-5R	239	214	82	6	60	34	0	0	94	34	7.5	3.3	69
NDTX4304-1R	73	58	22	16	30	54	0	0	84	54	2.1	3.7	58
NDTX4930-5W	154	142	55	8	87	6	0	0	92	6	4.6	3.5	79
NY125	172	137	53	20	73	7	0	0	80	7	6.0	3.0	82
NY126	243	211	81	12	77	11	0	0	88	11	6.4	4.0	84
REBA	148	107	41	25	65	11	0	0	75	11	5.2	3.0	74
ROSA	166	79	31	51	49	0	0	0	49	0	7.7	2.3	78
RUSSET BURBANK	214	95	37	51	49	0	0	0	49	0	7.4	3.0	89
STAMPEDE	43	0	0	90	10	0	0	0	10	0	2.4	1.9	68
SUPERIOR	133	106	41	15	61	22	2	0	85	24	4.1	3.3	67
TC1675-1RU	137	66	25	49	43	8	0	0	51	8	5.9	2.4	81
TXA549-1RU	31	24	9	20	52	27	0	0	80	27	0.9	3.7	NA
WESTERN RUSSET	210	159	61	21	70	9	0	0	79	9	6.8	3.2	83
W2275-9R	146	90	35	26	55	19	0	0	74	19	5.0	3.2	70
W2301-3P	119	79	30	32	68	0	0	0	68	0	4.6	2.7	67
YUKON GOLD	184	152	59	11	55	33	1	0	89	35	4.6	4.2	85

<sup>1</sup>Tuber size classes: 1 = 1" to 1-7/8", 2 = 1-7/8" to 2-1/2", 3 = 2-1/2" to 3-1/4", 4 = 3-1/4" to 4", and 5 = over 4" dia.  
 Plant Date: May xx                      Maturity Ratings: Sep xx                      Vinekill Date: Sep xx                      Harvest Date: Sep xx

**Upstate New York Table 19. Plant maturity, tuber shape and appearance, and percentage of external and internal tuber defects for the organic grown variety trial at Freeville, New York - 2004.**

Genotype Variety or Clone	Plant <sup>1</sup> Mat. At Vinekill	Tuber Attributes <sup>1</sup>			External Tuber Defects (%)					Int. Tuber Defects (%) <sup>2</sup>		
		Tuber Shape	Skin Text.	Tuber Appear.	Total Defects	Sun- Green	Mis- shapen	Growth Cracks	Rot	Holl. Heart	Vasc. Disc.	Int. Nec.
ADIRONDACK BLUE	#DIV/0!	5	6	5.0	11.0	3.7	4.2	0.0	3.1	0.0	0.0	0.0
ALL BLUE	#DIV/0!	6	8	6.0	6.0	1.4	4.3	0.0	0.3	0.0	0.0	0.0
ALLEGANY	#DIV/0!	1	8	7.0	1.7	0.0	0.0	0.0	1.7	0.0	0.0	0.0
AC89536-5RU	#DIV/0!	8	3	7.5	8.7	1.0	2.8	4.8	0.0	90.0	0.0	0.0
AF1758-7	#DIV/0!	1	8	7.0	7.2	0.0	7.2	0.0	0.0	0.0	0.0	0.0
ATLANTIC	#DIV/0!	1	5	6.0	7.1	0.5	2.3	1.6	2.8	30.0	0.0	0.0
ATX98465-1R/Y	#DIV/0!	1	8	6.0	10.8	0.4	7.3	1.6	1.6	0.0	0.0	0.0
ATX84378-1RU	#DIV/0!	8	3	7.5	27.2	0.0	1.5	23.7	2.0	20.0	0.0	0.0
ATX84706-2RU	#DIV/0!	8	4	5.5	21.1	1.1	3.5	14.5	2.0	10.0	0.0	0.0
ATX85404-8W	#DIV/0!	1	8	8.0	2.1	0.5	1.6	0.0	0.0	10.0	0.0	0.0
ATX91137-1RU	#DIV/0!	6	3	7.5	11.5	0.9	3.7	5.1	1.8	0.0	0.0	0.0
BINJTE	#DIV/0!	4	8	6.0	4.2	0.1	3.5	0.5	0.0	0.0	0.0	0.0
BOULDER	#DIV/0!	2	8	5.0	8.8	0.0	0.0	8.8	0.0	20.0	0.0	0.0
BTX1544-2W/Y	#DIV/0!	1	8	5.5	8.6	0.0	7.8	0.0	0.8	0.0	0.0	0.0
CAROLA	#DIV/0!	3	8	5.0	12.7	0.0	11.2	0.0	1.4	0.0	0.0	0.0
CASTILE	#DIV/0!	4	8	6.5	5.4	2.1	2.1	0.6	0.6	0.0	0.0	0.0
CHIEFTAIN	#DIV/0!	1	8	4.0	1.8	0.0	1.8	0.0	0.0	0.0	0.0	0.0
CO93037-6R	#DIV/0!	1	8	7.5	7.5	1.2	0.0	6.3	0.0	0.0	0.0	0.0
DAKOTA JEWEL	#DIV/0!	1	8	6.5	5.9	0.2	5.7	0.0	0.0	0.0	0.0	0.0
DARK RED NORLAND	#DIV/0!	2	8	6.0	8.5	0.0	3.8	0.0	4.7	0.0	0.0	0.0
ELBA	#DIV/0!	1	8	7.0	9.8	6.3	0.6	0.0	3.0	30.0	0.0	0.0
ERAMOSA	#DIV/0!	1	5	7.5	8.0	0.0	3.3	0.0	4.8	0.0	0.0	0.0
EVA	#DIV/0!	1	8	6.0	11.8	0.8	2.3	4.5	4.2	0.0	0.0	0.0
GEMSTAR RUSSET	#DIV/0!	7	3	6.5	3.8	1.5	2.4	0.0	0.0	0.0	0.0	0.0
GREEN MOUNTAIN	#DIV/0!	3	8	4.0	1.9	0.0	1.1	0.0	0.8	0.0	0.0	0.0
JAQUELINE LEE	#DIV/0!	4	8	7.0	2.9	0.2	2.1	0.6	0.0	0.0	0.0	0.0
KATAHDIN	#DIV/0!	2	8	6.0	2.9	1.3	0.3	0.9	0.4	0.0	0.0	0.0
KEUKA GOLD	#DIV/0!	1	7	5.0	0.8	0.4	0.4	0.0	0.0	10.0	0.0	0.0

(continued)

**Upstate New York Table 19. -(cont'd)- Plant maturity, tuber shape and appearance, and percentage of external and internal tuber defects**

**for the organic grown variety trial at Freeville, New York - 2004.**

Genotype Variety or Clone	Plant <sup>1</sup> Mat. At Vinekill	Tuber Attributes <sup>1</sup>			External Tuber Defects (%)					Int. Tuber Defects (%) <sup>2</sup>		
		Tuber Shape	Skin Text.	Tuber Appear.	Total Defects	Sun- Green	Mis- shapen	Growth Cracks	Rot	Holl. Heart	Vasc. Disc.	Int. Nec.
L235-4	#DIV/0!	2	7	3.0	2.2	0.1	0.2	1.9	0.0	0.0	0.0	0.0
MARCY	#DIV/0!	1	6	4.5	5.8	5.2	0.6	0.0	0.0	40.0	0.0	0.0
MICHIGAN PURPLE	#DIV/0!	2	8	4.5	3.5	0.0	0.3	2.9	0.4	0.0	0.0	0.0
MN98001-4	#DIV/0!	1	7	6.0	0.9	0.0	0.0	0.0	0.9	0.0	0.0	0.0
MN99144-1	#DIV/0!	1	8	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MN99380-1	#DIV/0!	1	8	7.5	7.5	3.1	0.6	3.7	0.0	0.0	0.0	0.0
MN99460-14	#DIV/0!	1	8	6.5	1.4	0.0	0.0	0.0	1.4	20.0	0.0	0.0
MSG227-2	#DIV/0!	2	7	4.5	2.5	1.0	1.5	0.0	0.0	20.0	0.0	0.0
MSJ461-1	#DIV/0!	1	8	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MWTX548-2RU	#DIV/0!	8	6	5.0	0.9	0.0	0.9	0.0	0.0	20.0	0.0	0.0
MWTX2609-2RU	#DIV/0!	8	6	4.0	3.0	0.0	1.6	1.4	0.0	40.0	0.0	0.0
MWTX2609-4RU	#DIV/0!	7	6	4.0	0.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0
NDTX4271-5R	#DIV/0!	1	8	8.0	4.3	0.0	0.0	4.3	0.0	0.0	0.0	0.0
NDTX4304-1R	#DIV/0!	2	8	7.0	4.9	0.0	0.0	4.9	0.0	0.0	0.0	0.0
NDTX4930-5W	#DIV/0!	3	8	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NY125	#DIV/0!	2	6	5.0	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
NY126	#DIV/0!	2	6	4.0	0.7	0.6	0.1	0.0	0.0	0.0	0.0	0.0
REBA	#DIV/0!	2	8	7.0	2.9	1.0	0.0	0.0	1.9	10.0	0.0	0.0
ROSA	#DIV/0!	2	8	7.0	1.7	0.0	0.4	0.0	1.3	40.0	0.0	0.0
RUSSET BURBANK	#DIV/0!	6	4	5.0	4.1	0.3	1.5	2.3	0.0	40.0	0.0	0.0
STAMPEDE	#DIV/0!	7	4	5.0	9.8	0.0	9.8	0.0	0.0	0.0	0.0	0.0
SUPERIOR	#DIV/0!	3	6	5.5	8.4	0.4	3.3	0.3	4.4	10.0	0.0	0.0
TC1675-1RU	#DIV/0!	7	3	5.8	2.9	0.0	2.9	0.0	0.0	0.0	0.0	0.0
TXA549-1RU	#DIV/0!	6	6	4.0	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0
WESTERN RUSSET	#DIV/0!	7	6	5.0	3.5	0.0	2.5	0.0	1.0	10.0	0.0	0.0
W2275-9R	#DIV/0!	3	8	6.8	11.8	0.0	4.0	2.2	5.6	5.0	0.0	0.0
W2301-3P	#DIV/0!	3	7	7.0	1.3	0.0	0.0	1.3	0.0	0.0	0.0	0.0
YUKON GOLD	#DIV/0!	3	8	7.3	6.7	0.0	1.6	2.3	2.8	20.0	0.0	0.0

<sup>1</sup>See the standard NE184 rating system for a key to these rating scales in the appendix in the rear of this report.

<sup>2</sup>Based on a 10-tuber sample from each replication. The tubers were taken from the size 3 and 4 categories.

**Upstate New York Table 18-19c. Tuber attributes (color, texture, shape, x-section, eye depth & appearance), scab ratings, Agtron chip scores and cooking quality ratings for the organic "a" trial grown at Freeville, New York - 2004.**

GENOTYPE VARIETY or CLONE	TUBER ATTRIBUTES					
	SKIN COLOR	SKIN TEX.	TUBER SHAPE	TUBER X-SECT.	EYE DEPTH	TUBER APPER.
ADIRONDACK BL <sup>1</sup>	1	6	5	4	5	5.0
ALL BLUE	1	8	6	5	4	6.0
ALLEGANY	8	8	1	7	7	7.0
AC89536-5RU	6	3	8	4	7	7.5
AF1758-7	8	8	1	5	7	7.0
ATLANTIC	7	5	1	7	5	6.0
ATTX98465-1R/Y	2	8	1	8	4	6.0
ATX84378-1RU	5	3	8	5	7	7.5
ATX84706-2RU	5	4	8	6	7	5.5
ATX85404-8W	8	8	1	6	7	8.0
ATX91137-1RU	5	3	6	4	7	7.5
BINJTE	9	8	4	5	7	6.0
BOULDER	8	8	2	5	4	5.0
BTX1544-2W/Y	9	8	1	7	5	5.5
CAROLA	9	8	3	5	4	5.0
CASTILE	8	8	4	4	7	6.5
CHIEFTAIN	3	8	1	8	5	4.0
CO93037-6R	2	8	1	8	7	7.5
DAKOTA JEWEL	2	8	1	7	5	6.5
DARK RED NORL <sup>2</sup>	2	8	2	5	5	6.0
ELBA	8	8	1	7	5	7.0
ERAMOSA	8	5	1	7	6	7.5
EVA	8	8	1	7	6	6.0
GEMSTAR RUSSE <sup>3</sup>	5	3	7	4	7	6.5
GREEN MOUNTAI <sup>4</sup>	8	8	3	5	5	4.0
JAQUELINE LEE	8	8	4	5	6	7.0
KATAHDIN	8	8	2	6	5	6.0
KEUKA GOLD	9	7	1	7	7	5.0

<b>GENOTYPE</b>	<b>TUBER ATTRIBUTES</b>					
VARIETY or CLONE	SKIN COLOR	SKIN TEX.	TUBER SHAPE	TUBER X-SECT.	EYE DEPTH	TUBER APPER.
L235-4	8	7	2	4	3	3.0
MARCY	9	6	1	7	5	4.5
MICHIGAN PURPL	1	8	2	5	5	4.5
MN98001-4	8	7	1	7	7	6.0
MN99144-1	9	8	1	7	6	6.5
MN99380-1	9	8	1	8	7	7.5
MN99460-14	2	8	1	7	6	6.5
MSG227-2	9	7	2	4	7	4.5
MSJ461-1	8	8	1	7	7	7.0
MWTX548-2RU	9	6	8	5	6	5.0
MWTX2609-2RU	6	6	8	5	7	4.0
MWTX2609-4RU	6	6	7	5	7	4.0
NDTX4271-5R	2	8	1	8	7	8.0
NDTX4304-1R	2	8	2	7	7	7.0
NDTX4930-5W	8	8	3	4	7	3.0
NY125	9	6	2	5	7	5.0
NY126	9	6	2	5	7	4.0
REBA	8	8	2	7	6	7.0
ROSA	8	8	2	7	7	7.0
RUSSET BURBANI	6	4	6	5	7	5.0
STAMPEDE	6	4	7	6	7	5.0
SUPERIOR	8	6	3	5	7	5.5
TC1675-1RU	5	3	7	5	7	5.8
TXA549-1RU	6	6	6	5	7	4.0
WESTERN RUSSE <sup>1</sup>	6	6	7	4	7	5.0
W2275-9R	2	8	3	6	4	6.8
W2301-3P	1	7	3	7	6	7.0
YUKON GOLD	8	8	3	7	7	7.3