

2019 Sweet Potato Trials

Table 1: Variety information and overall yield per acre in Orange County, NY (highest to lowest marketable yield)

Variety	Source	Skin/Flesh Colors	# of Rows	Total Marketable Yield (lbs/acre)	Total Yield (lbs/acre)
NY Covington #2	Slips grown in NY	Red/orange	2	43488	62992
Orleans	Jones Family Farms	Red/light orange	2	38865	53274
Burgundy	Jones Family Farms	Dark red/dark orange	2	32274	44831
Averre	Jones Family Farms	Red/orange	2	31882	50108
NY Covington #2	Slips grown in NY	Red/orange	1	28169	39626
445	Louisiana State University	Red/orange	1	27804	39232
B-14	Louisiana State University	Red/orange	1	27095	48839
NY Covington #6	Slips grown in NY	Red/orange	1	27089	35179
Bonita	Jones Family Farms	White/white	2	25282	40649
Bonita	Jones Family Farms	White/white	1	24140	32711
Bellevue	Jones Family Farms	Orange/orange	2	22179	32657
Averre	Jones Family Farms	Red/orange	1	18925	39173
Covington	Jones Family Farms	Red/orange	2	18725	30911
Bellevue	Jones Family Farms	Orange/orange	1	14942	19094
Burgundy	Jones Family Farms	Dark red/dark orange	1	14220	21770
Murasaki	Jones Family Farms	Purple/white	2	13445	17373
Murasaki	Jones Family Farms	Purple/white	1	13349	16262
Covington	Jones Family Farms	Red/orange	1	11729	25405
Orleans	Jones Family Farms	Red/light orange	1	8914	36704
14-31	Louisiana State University	Purple/purple	1	8485	12419
NC-531	Jones Family Farms	Red/orange	2	6752	11156
NC-531	Jones Family Farms	Red/orange	1	3671	7747

Planted on 6 foot raised black plastic mulch.

Row Spacings: 1 row - centered on plastic, 12 inches apart in-row. 2 rows, approximately 18 inches apart, 12 inches apart in-row

Planted 6/14/19: Bonita, Covington, Orleans, Averre, Bellevue, NC-531, Burgundy, NY Covington, Murasaki

Planted 6/24/19: 14-31, B-14, 445

Vines terminated and roots harvested 10/4/19

Table 2: Size distribution of root sizes per acre in Orange County, NY (highest to lowest marketable yield)

Variety	# of Rows	Total Marketable Yield (lbs)	Total Jumbo (>32oz) Weight (lbs)	Total # Jumbo (>32 oz)	Total Large (14-32oz) Weight (lbs)	Total # Large (14-32 oz)	Total Small (4-14oz) Weight (lbs)	Total # Small (4-14 oz)	Total Fingerling (1-4oz) Weight (lbs)	Total # Fingerling (1-4 oz)
NY Covington #2	2	43488	0	0	19656	16698	21584	42834	2248	12342
Orleans	2	38865	7541	2904	16381	13794	12970	25410	1973	13068
Burgundy	2	32274	0	0	16432	13794	14112	28314	1729	9438
Averre	2	31882	0	0	13705	10164	14096	27588	4080	26136
NY Covington #2	1	28169	0	0	15845	13794	10309	21054	2015	15972
445	1	27804	17128	5082	6832	4356	3016	6534	828	5808
B-14	1	27095	9690	3630	8016	6534	7792	13794	1598	9438
NY Covington #6	1	27089	1484	726	12691	10164	11022	18876	1892	10890
Bonita	2	25282	0	0	5641	4356	15647	34122	3994	21780
Bonita	1	24140	0	0	6829	5082	14379	28314	2931	20328
Bellevue	2	22179	0	0	5381	5082	13699	29040	3099	20328
Averre	1	18925	0	0	7055	5808	8456	17424	3414	22506
Covington	2	18725	0	0	4505	3630	12897	25410	1323	12342
Bellevue	1	14942	0	0	6166	5082	6892	17424	1883	13794
Burgundy	1	14220	0	0	3805	2904	8287	19602	2128	14520
Murasaki	2	13445	0	0	4090	3630	7927	15246	1428	10164
Murasaki	1	13349	0	0	3621	2904	5245	12342	4483	30492
Covington	1	11729	0	0	2791	2904	7455	13068	1484	12342
Orleans	1	8914	0	0	4286	2904	3808	7986	819	5082
14-31	1	8485	0	0	920	726	5811	12342	1755	13068
NC-531	2	6752	0	0	752	726	4610	9438	1390	6534
NC-531	1	3671	0	0	673	726	2775	5808	222	1452

Planted on 6 foot raised black plastic mulch.

Row Spacings: 1 row - centered on plastic, 12 inches apart in-row. 2 rows, approximately 18 inches apart, 12 inches apart in-row

Planted 6/14/19: Bonita, Covington, Orleans, Averre, Bellevue, NC-531, Burgundy, NY Covington, Murasaki

Planted 6/24/19: 14-31, B-14, 445

Vines terminated and roots harvested 10/4/19

Table 3: Cull information and distribution per acre in Orange County, NY (highest to lowest marketable yield)

Variety	# of Rows	Total Marketable Yield (lbs)	Total Weight (lb) Unmarketable Roots	Total # Unmarketable Roots	Weight Rodent Damaged Roots (lbs)	# Rodent Damaged	Weight Misshaped Roots (lbs)	# Misshaped Roots	Weight Too Small Roots (lbs)	# Too Small Roots	Weight Roots With Mechanical Damage (lbs)	# Roots With Mechanical Damage
NY Covington #2	2	43488	19504	50820	14248	29040	5256	21780	0	0	0	0
Orleans	2	38865	12462	46464	178	3630	8515	26862	342	4356	5374	12342
Burgundy	2	32274	12557	27588	5361	13068	147	726	36	726	7012	13068
Averre	2	31882	18226	40656	34	726	9562	19602	910	726	7720	19602
NY Covington #2	1	28169	11457	21054	7233	14520	82	726	50	726	4093	5082
445	1	27804	11428	14520	9603	9438	771	2904	0	0	1053	2178
B-14	1	27095	21744	28314	15008	10164	4938	14520	0	0	1798	3630
NY Covington #6	1	27089	6498	22506	3439	5808	2509	7986	608	6534	1534	3630
Bonita	2	25282	15368	76956	532	2178	11686	60258	0	0	3150	14520
Bonita	1	24140	8571	50820	1765	11616	3176	11616	2605	21054	1506	7986
Bellevue	2	22179	10477	23232	0	0	4753	13068	0	0	5724	10164
Averre	1	18925	20248	58080	12267	20328	6046	30492	183	3630	1751	3630
Covington	2	18725	12186	37752	163	4356	6648	19602	1032	5808	4902	8712
Bellevue	1	14942	4152	18876	182	5808	3507	7260	463	5808	0	0
Burgundy	1	14220	7549	23232	3783	11616	3766	11616	0	0	0	0
Murasaki	2	13445	3928	29766	326	7260	2695	13068	349	5082	559	4356
Murasaki	1	13349	2913	15972	1025	6534	1212	7260	45	726	631	1452
Covington	1	11729	13676	39930	1275	6534	9824	26862	0	0	2500	5808
Orleans	1	8914	27790	32670	22044	19602	0	0	0	0	5746	13068
14-31	1	8485	3934	20328	1857	4356	1608	10164	225	5082	245	726
NC-531	2	6752	4405	15972	75	1452	3526	9438	146	1452	657	3630
NC-531	1	3671	4076	15246	761	1452	3315	13794	0	0	362	726

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Planted 6/24/19: 14-31, B-14, 445

Vines terminated and roots harvested 10/4/19

Too small roots were any roots under 1 oz

Table 5: Size average and % as compared to total marketable yield in Orange County, NY (highest to lowest marketable yield)

Variety	# of Rows	Total Marketable Yield (lbs)	Jumbo Roots (>32oz)			Large Roots (14-32oz)			Small Roots (4-14oz)			Fingerling Roots (1-4oz)		
			Total Jumbo Weight (lbs)	Average Jumbo Root Size (oz)	Jumbo Root % of Total	Total Large Weight (lbs)	Average Large Root Size (oz)	Large Root % of Total	Total Small Weight (lbs)	Average Small Root Size (oz)	Small Root % of Total	Total Fingerling Weight (lbs)	Average Fingerling Root Size (oz)	Fingerling Root % of Total
NY Covington #2	2	43488	0	0	0%	19656	18.8	45%	21584	8.1	50%	2248	2.9	5%
Orleans	2	38865	7541	41.5	19%	16381	19.0	42%	12970	8.2	33%	1973	2.4	5%
Burgundy	2	32274	0	0	0%	16432	19.1	51%	14112	8.0	44%	1729	2.9	5%
Averre	2	31882	0	0	0%	13705	21.6	43%	14096	8.2	44%	4080	2.5	13%
NY Covington #2	1	28169	0	0	0%	15845	18.4	56%	10309	7.8	37%	2015	2.0	7%
445	1	27804	17128	53.9	62%	6832	25.1	25%	3016	7.4	11%	828	2.3	3%
B-14	1	27095	9690	42.7	36%	8016	19.6	30%	7792	9.0	29%	1598	2.7	6%
NY Covington #6	1	27089	1484	32.7	5%	12691	20.0	47%	11022	9.3	41%	1892	2.8	7%
Bonita	2	25282	0	0	0%	5641	20.7	22%	15647	7.3	62%	3994	2.9	16%
Bonita	1	24140	0	0	0%	6829	21.5	28%	14379	8.1	60%	2931	2.3	12%
Bellevue	2	22179	0	0	0%	5381	16.9	24%	13699	7.5	62%	3099	2.4	14%
Averre	1	18925	0	0	0%	7055	19.4	37%	8456	7.8	45%	3414	2.4	18%
Covington	2	18725	0	0	0%	4505	19.9	24%	12897	8.1	69%	1323	1.7	7%
Bellevue	1	14942	0	0	0%	6166	19.4	41%	6892	6.3	46%	1883	2.2	13%
Burgundy	1	14220	0	0	0%	3805	21.0	27%	8287	6.8	58%	2128	2.3	15%
Murasaki	2	13445	0	0	0%	4090	18.0	30%	7927	8.3	59%	1428	2.2	11%
Murasaki	1	13349	0	0	0%	3621	20.0	27%	5245	6.8	39%	4483	2.4	34%
Covington	1	11729	0	0	0%	2791	15.4	24%	7455	9.1	64%	1484	1.9	13%
Orleans	1	8914	0	0	0%	4286	23.6	48%	3808	7.6	43%	819	2.6	9%
14-31	1	8485	0	0	0%	920	20.3	11%	5811	7.5	68%	1755	2.1	21%
NC-531	2	6752	0	0	0%	752	16.6	11%	4610	7.8	68%	1390	3.4	21%
NC-531	1	3671	0	0	0%	673	14.8	18%	2775	7.6	76%	222	2.4	6%

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