

Willsboro Grape Trial 2010

CCE Northeast NY Fruit Program, Cornell Baker Farm, Willsboro, NY.

Table 1: Comparative Wine Grape Vogor, Growth Stage Phenology, Yield Information.

Number and ID of cultivars in Trial	Representative 2010 Phenology (Growth Stages) of vines. ²								³ kg/ Variety	⁴ Proj kg/A	⁵ Proj Tons/A
	(4)BB	(12)10cm	(19)Flow er	(23)50%CF	(27)BSet	(35)Veraison	(38)Harv				
1 Baco*	5/1	5/20	6/6	6/13	6/15	8/10	9/25	126.50	6,268	6.89	
2 Cayuga White	5/15	5/20	6/22	6/22	6/22	8/10	9/18	159.10	7,228	7.95	
3 Edelweiss	5/1	5/20	6/7	6/13	6/22	8/4	9/10	143.20	6,504	7.15	
4 ES 6-16-30	5/5	5/20	6/8	6/13	6/22	8/10	9/6	74.00	3,361	3.70	
5 Foch	5/1	5/20	6/8	6/13	6/22	8/4	9/18	157.70	7,162	7.80	
6 Frontenac	5/1	5/20	6/4	6/7	6/15	8/4	9/18	137.00	6,222	6.84	
7 Frontenac Gris	5/1	5/20	6/4	6/7	6/15	8/4	9/18	166.00	7,539	8.29	
8 GR7	5/1	5/18	6/6	6/13	6/22	8/4	9/25	197.00	8,947	9.84	
9 LaCrescent	5/1	5/20	6/4	6/7	6/15	8/4	9/25	121.50	5,518	6.07	
10 Lacrosse	5/5	5/24	6/12	6/15	6/22	8/10	9/11	140.10	6,363	7.00	
11 Landot*	5/15	5/24	6/22	6/22	6/29	8/17	9/11	15.50	768	0.80	
12 Leon Millot*	5/1	5/20	6/6	6/13	6/15	7/30	9/11	146.30	7,249	7.97	
13 Louise Swenson	5/1	5/20	6/8	6/14	6/22	8/4	9/11	178.10	8,089	8.90	
14 Marquette*	5/1	5/18	6/4	6/7	6/15	7/30	9/11	149.30	7,397	8.14	
15 Mn 1200	5/1	5/20	6/4	6/7	6/15	7/30	9/11	118.50	5,382	5.92	
16 Niagara	5/1	5/20	6/7	6/13	6/22	8/17	9/18	255.50	11,604	12.78	
17 Noiret*	5/5	5/20	6/14	6/22	6/25	8/10	9/25	101.50	5,029	5.53	
18 NY 76.844.24	5/5	5/20	6/15	6/20	6/22	8/10	9/22	140.80	6,395	7.03	
19 Petiete Amie	5/1	5/20	6/7	6/13	6/22	8/4	9/18	137.90	6,263	6.89	
20 Prairie Star	5/1	5/20	6/6	6/12	6/15	8/4	9/10	179.80	8,166	8.98	
21 Unidentified (6)	5/5	5/24	6/13	6/22	6/22	8/10	9/25	209.50	9,515	10.47	
22 Sabrevois	5/5	5/20	6/7	6/13	6/15	8/4	9/11	120.80	5,477	6.02	
23 St. Croix	5/1	5/20	6/7	6/13	6/22	8/4	9/11	115.50	5,064	5.57	
24 St. Pepin	5/5	5/24	6/13	6/22	6/25	8/4	9/15	133.70	6,072	6.68	
25 Vignoles*	5/10	5/24	6/22	6/22	6/25	8/17	9/25	105.30	5,217	5.74	

Notes:

1. Phenology Stages (see below) were based on visual estimate of the point when there was 50% or greater bud break across all of a variety.
2. The #s in () reference Eichorn-Lorenz Phenological stages. (Compendium Grape Diseases, APS Press, 1994). BB is budburst; 10cm modal shoot growth; flowering begun; 50%CF is 50% flower caps off; Bset berries growing at R-angle to cane; veraison: onset berry maturation, color.
- 3 - 5. Yield in kg of each cultivar divided by # producing vines for per vn value. Times 545 (since 8' x 10' spacing) for per acre adjustment.
6. Unidentified vine: Preseumed Ravat at planting. Fruiting subsequently demonstrated that it was "Not-Ravat" (or simply unidentified).

Prepared by Kevin Iungerman. Original Data Collection Richard Lamoy. CCE NE NY Fruit Program . March 2011

Table 2 - Comparative Vine Live Nodes, Production, Berries

Variety	# of vns	Tot # Clust.	Tot kg	kg/vn	Cluster Wt (g)	Brix	pH	Final TA	Berry Wt (g)	2010 % Lv node
Baco	11	1295	126.5	11.50	97.68	21	3.39	9.1	1.44	91
Cayuga White	12	804	159.1	13.26	197.89	16.6	3.27	6.7	3.31	58.5
Edelweiss	12	813	143.2	11.93	176.14	16	3.41	4.9	3.17	96.1
ES 6-16-30	12	689	74	6.17	107.40	19.4	3.4	8.1	2.27	95.4
Foch	12	1461	157.7	13.14	107.94	21.8	3.45	8	1.5	91.4
Frontenac	12	874	137	11.42	156.75	22	3.53	13.3	1.33	99.3
Frontenac Gris	12	1021	166	13.83	162.59	23	3.18	15.4	1.27	82.7
GR7	12	1260	197	16.42	156.35	20.2	3.53	5.5	1.61	99.6
LaCrescent	12	857	121.5	10.13	141.77	23.6	3.30	12.5	1.43	99.7
Lacrosse	12	1230	140.1	11.68	113.90	18.4	3.23	7.2	1.82	82.4
Landot	11	182	15.5	1.41	85.16	18.8	3.3	9.7	1.94	26
Leon Millot	11	1132	146.3	13.30	129.24	22	3.47	8.7	1.3	91.7
Louise Swenson	12	1168	178.1	14.84	152.48	17.2	3.27	5.2	2.68	95.8
Marquette	11	1137	149.3	13.57	131.31	23	3.08	10.9	1.42	99.3
Mn1200	12	1514	118.5	9.88	78.27	21.8	3.08	7.9	1.14	100
Niagara	12	1398	255.5	21.29	182.76	13	3.16	9.3	3.09	96.6
Noiret	11	558	101.5	9.23	181.90	17	3.2	6.3	2.02	83.3
NY 76.844.24	12	924	140.8	11.73	152.38	22	3.28	7.5	1.76	98.1
Petite Amie	12	1323	137.9	11.49	104.23	22	3.39	5.8	n/a	80.5
Prairie Star (*1)	12	1444	179.8	14.98	124.52	18.6	3.55	9.6	2.51	97.7
Ravat 34-not	12	1085	209.5	17.46	193.09	14	3.29	5.9	2.21	92.2
Sabrevois	12	1006	120.6	10.05	119.88	18.6	3.51	9.9	2.21	98.5
St. Croix	12	875	111.5	9.29	127.43	19.2	3.27	7.1	1.79	99
St. Pepin	12	1347	133.7	11.14	99.26	20.2	3.30	8.6	2.19	97.8
Vignoles	11	862	105.3	9.57	122.16	20.4	3.21	10.1	1.49	70.7

Notes:

- (*1) Prairie Star trained differently - to a 4 arm kniffen, not a top-wire cordon as its new spring cane growth is markedly susceptible to breakage by winds.
- Brix, pH, and TA values for juice pressed in Morrisonville at Lamoy's Hid-in-Pines Vineyard & Winery in cooperation with CCE NENYF. All grapes from Trial.

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Table 3 - 2010 Commercial Wines - Cooperators Program With Local Winemakers

2010 "Commercial" Willsboro Wines in Process - Information on Harvest Distribution to Cooperators

Cultivar / R or W	Harv.	Date	Lbs	Winemaker Cooperators	Value of Grapes Distributed for Wine Making					
					Harvest Weight	Apportionment (Lbs)				
					Grapes	Lbs	Tons	Coops	NENYF	
Baco	R	100%	9/25	278	DiCrescenzo, Poiner, Rinehardt					
Cayuga White	W	100%	9/18	350	(General Distribution)					
Edelweiss	W	100%	9/10	315	Favreau	Reds	3,338	1.67	2,183	1,155
ES 6 - 16 - 30	W	50%	9/6	163	NENYF/RL Trzaskos	Whites	4,626	2.31	2,802	1,824
Foch	R	100%	9/18	347	Favreau	Estimated Share Value at \$600 Ton:				
Frontenac	R	50%	9/18	301	NENYF/RL	Grapes	Overall	Coops	NENYF	
Frontenac Gris	W	50%	9/18	365	NENYF/RL	All	\$2,389	\$1,496	\$894	
GR7	R	100%	9/25	433	Favreau, Poiner	Reds	\$1,001	\$655	\$347	
La Crescent	W	50%	9/11	287	NENYF/RL	Whites	\$1,388	\$841	\$547	
LaCross	W	100%	9/18	308	Favreau	Estimated Share Value at \$1,000 Ton:				
Landot	R	100%	9/25	34	(General Distribution)	All	\$3,982	\$2,493	\$1,490	
Leon Millot	R	100%	9/11	322	DiCrescenzo, Doud, Husband, Trzaskos	Reds	\$1,669	\$1,092	\$578	
Louise Swenson	W	100%	9/11	392	Husband, Racette, Rinehardt	Whites	\$2,313	\$1,401	\$912	
Marquette	R	50%	9/11	328	NENYF/RL DiCrescenzo, Doud	Notes:				
MN 1200	R	50%	9/11	261	NENYF/RL Doud					
Niagara	W	100%	9/18	562	Favreau	1. NENYF/RL indicates wines being made by the Fruit Program's				
NY 76.0844.24	W	50%	9/22	310	NENYF/RL	Seasonal Technician, Richard Lamoy at Hid-In-Pines Winery.				
Noiret	R	100%	9/25	223	(General Distribution)	2. "Harv" Column refers to the % of crop going to cooperators.				
"Not Ravat"	R	100%	9/25	301	Poiner, Rinehardt, Racette	3. Cooperators Agreed to Hold samples of resultant wine (alone or				
Petite Amie	W	50%	9/18	303	NENYF/RL	as part of blend of their own choosing) for group review in 2011.				
Prairie Star	W	50%	9/10	396	NENYF/RL Lamoy	4. Grapes value estimates based on a low (\$600 per ton) and				
Sabrevois	R	50%	9/11	265	NENYF/RL Dowd, Racette	a moderate-to-upper amount (\$1,000 per ton) as might be obtained				
St Croix	R	100%	9/11	245	Lincoln, Racette, Trzaskos	regionally (or like areas) for specific varieties and levels of quality.				
St. Pepin	W	100%	9/15	294	McDowell	5. All grapes are from the CCE NENYF Wine Grape Trial, Willsboro.				
Vignoles	W	100%	9/25	231	Schwartzberg, Rinehardts	6. NENYF/RL indicates Fruit Program wine making.				

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Table 4 - Canopy Management - (A) Shoot and Cluster Thinned (Clear Lines), (B) Shoot Thinned Only (Blue Shaded Lines).

Variety	2010 Harvest Information						Projections		Variety	2010 Harvest Information						Projections	
	Harv Date	# Vines	Clusters	total Kg	kg/vn	g/cluster	kg/A	Tons/A		Harv Date	# Vines	Clusters	total Kg	kg/vn	g/cluster	kg/A	Tons/A
Baco	9/26	8	887	89.6	4.20	101.01	6104	6.7	Marquette	9/12	9	919	123.5	4.57	134.39	7479	8.2
		3	408	36.9	12.30	90.44	6704	7.4			2	218	25.8	12.90	118.35	7031	7.7
Cayuga White	9/19	9	500	108.4	4.01	216.80	6564	7.2	Mn 1200	9/12	9	930	82.7	3.06	88.92	5008	5.5
		3	304	50.7	16.90	166.78	9211	10.1			3	584	35.8	11.93	61.30	6504	7.2
Edelweiss	9/11	9	641	107.1	3.97	167.08	6486	7.1	Niagara	9/19	9	1077	198.5	7.35	184.31	12020	13.2
		3	172	36.1	12.03	209.88	6558	7.2			3	321	57	19.00	177.57	10355	11.4
ES 6-16-30	9/7	9	567	60	2.22	105.82	3633	4.0	Noiret	9/26	8	405	75	3.69	185.19	5356	5.9
		3	122	14	4.67	114.75	2548	2.8			3	153	26.5	8.83	173.20	4814	5.3
Foch	9/19	9	1014	113.9	4.22	112.33	6987	7.6	NY 76.844.24	9/23	9	717	110.7	4.10	154.39	6704	7.4
		3	447	43.8	14.60	97.99	7957	8.8			3	207	30.1	10.03	145.41	5468	6.0
Frontenac	9/19	9	586	97	3.59	165.53	5874	6.5	Petite Amie	9/19	9	908	101.8	3.77	112.11	6165	6.8
		3	288	40	13.33	138.89	7267	8.0			3	415	36.1	12.03	86.99	6558	7.2
Frontenac Gris	9/19	9	730	120.7	4.47	165.34	7309	8.0	Prairie Star*	9/11	9	1029	132.1	4.89	128.38	7999	8.8
		3	291	45.3	15.10	155.67	8230	9.1			3	415	47.7	15.90	114.94	8666	9.5
GR7	9/26	9	972	150	5.56	154.32	9083	10.0	Not Ravat	9/26	9	785	146.1	5.41	186.11	8847	9.7
		3	288	47	15.67	163.19	8538	9.4			3	300	63.4	21.13	211.33	11518	12.7
LaCrescent	9/12	9	642	92.7	3.34	144.39	5614	6.2	Sabrevois	9/12	9	750	96.1	3.56	128.13	5819	6.4
		3	215	28.8	9.60	133.95	5232	5.8			3	256	24.5	8.17	95.70	4451	4.9
Lacrosse	9/19	9	857	101.9	3.77	118.90	6171	6.8	St. Croix	9/12	9	600	83.4	3.09	139.00	5050	5.6
		3	373	38.2	12.73	102.41	6940	7.6			3	275	28.1	9.37	102.18	5105	5.6
Landot	9/26	8	82	9.1	0.47	110.98	684	0.8	St. Pepin	9/16	9	981	96.7	3.58	98.57	5856	6.4
		3	100	6.4	2.13	64.00	1163	1.3			3	366	37	12.33	101.09	6722	7.4
Leon Millot	9/12	9	918	122	4.52	132.90	7388	8.1	Vignoles	9/26	9	735	91.2	3.38	124.08	5523	6.1
		2	214	24.3	12.15	113.55	6622	7.3			2	127	14.1	7.05	111.02	3842	4.2
Loiuse Swenson	9/12	9	881	138.8	5.14	157.55	8405	9.2	Use of		Calls attention to presence of a vine which was not productive in 2010 due to mortality or winter dieback and regrowth but no fruit.						
		3	287	39.3	13.10	136.93	7140	7.9									
Notes:																	
There are 3 vines of each variety in a panel. A set of such panels is in each of 4 replications. Each panel was randomly assigned to a replication.																	
In sum, there are 25 varieties, and 12 vines of each variety, for 300 vines in total.																	
Vine spacing is 8'x10' (545 vines /acre). Total area approximately 0.7 acres.																	
There are 10 rows in the planting, each with 10 panels. Vines are planted south to north in a row, and rows run east to west.																	
Treatments:																	
(A)	"Clear"	Combination Shoot & Cluster Thinning: Replications 1,2,3 (75% vines) were so treated.															
(B)	"Blue"	Shoot Thinning. Replication 4 (25% vines) shoot thinned only.															

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Table 5 - 2010 Willsboro Vineyard IPM Program - Spray Events, Pests, Cost.

# Spray Events, Date	Purpose,	Product Name,	Type	EPA Reg No.	Rate	Total Product	Tot. Gal. Sol.	application Method	Cost Per Unit	Cost This Application
1	4/30/10	Perennial Weeds	Roundup	H 524-475	2 qt./ A.	1 qt.	30	Spot Sprayer	\$30.25	\$30.25
2	5/18/10	Phomopsis Black Rot Anthracnose	Captec 4L Rally	F 66330-239 F 62719-410	1.5 qt./A. 5 oz./A.	1 qt. 3 oz.	50	Grape Boom Sprayer	\$8.00 \$4.89	\$8.00 \$14.67
3	6/2/10	Powdery Mildew	Flint	F 264-777	3 oz./ A.	2 oz.	50	Grape Boom	\$7.09	\$14.18
		Phomopsis	Manzate Pro	F 1812-414	3 lbs./A.	2.0 lb.		Sprayer	\$8.08	\$16.16
4	6/11/13	Powdery Mildew	Quintec	F 62719-375	4 oz./A	3 oz	50	Grape Boom	\$3.26	\$9.78
		Black Rot, Phomopsis Rose Chaffers	Manzate Prostik Sevin XLR	F 1812-414 I 264-333	3 lb/A 1.5 qt./A.	2.0 Lb 1 qt.		Sprayer	\$8.08 \$9.73	\$16.16 \$9.73
5	6/29/10	Powdery Mildew	Rubigan EC	F 10163-273	6 oz. / A.	4 oz	70	Grape Boom	\$4.15	\$16.16
		Black Rot, Downy Mildew, Phomopsis Rose Chaffers, Grape Berry Moth	Manzate Prostik Sevin XLR	F 1812-414 I 264-333	3 lb./A. 1.5 qt./A.	2 lb. 1 qt.		Sprayer	\$8.08 \$9.73	\$16.16 \$9.73
6	7/20/10	Powdery Mildew	Rubigan EC	F 10163-273	6 oz./ A.	4 oz.	90	Grape Boom	\$4.15	\$16.60
		Downey Mildew, Black Rot Downy Mildew Japanese Beetles, Grape Berry Moth	Captec 4L Prophyt Sevin XLR	F 66330-239 F 42519-22-5905 I 264-333	1.5 qt./A. 1.5 qt./A. 1.5 qt./A.	1 qt. 1 qt. 1 qt.		Sprayer	\$8.00 \$12.75 \$9.73	\$8.00 \$12.75 \$9.73
7	8/3/10	Perennial Weeds and Grass	Roundup	H 524-475	8 oz/5ga	0.5 qt.	10	Spot Sprayer	\$30.25	\$15.13
8	8/4/10	Powdery Mildew, Downy Mildew, Downy Mildew Japanese Beetles, Grape Berry Moth	Quintec Captec 4L Prophyt Sevin XLR	F 62719-375 F 66330-239 F 264-333 I 264-333	1.5 qt. / A. 1.5 qt./A. 1.5 qt./A. 1.5 qt./A.	2 oz 1 qt. 1 qt. 1 qt.	50 90	Grape Boom Sprayer	\$3.26 \$8.00 \$12.75 \$9.73	\$6.56 \$8.00 \$12.75 \$9.73
Notes:										
Total Acreage: 0.66acres. "Spot Sprayer" - Hand-held wand.									Total Seasonal Protectant Cost \$260.23	
"Grape Boom Sprayer": A modified spray boom apparatus , with adjustable booms on each side (move in or out), each with 6 spray nozzles, the top having angling capability. Spray volume tank of 50-100 gal., sprays from 40-60psi. Apparutus and mounting frame fashioned by program technician Richard Lamoy.									Per Acre Projection \$346.11	
									Seasonal Herbicide Cost \$45.38	
									Seasonal Insecticide Cost \$38.92	
									Seasonal Fungicide Cost \$175.93	

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