

PLANT & PEST ADVISORY

FRUIT EDITION \$1.50

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Performance of Sweet Cherry Cultivars in Southwestern Ontario

J. W. Zandstra and G. J. Watt, Cedar Springs Research Station Ridgetown College, University of Guelph

Note: Sweet cherry harvest is under way in Southern New Jersey. Hedelfingen is the standard for which most varieties are compared because of its tolerance to cracking (splits). These varieties are compared to Hedelfingen. The following is reprinted from the Tender Fruit & Grape Vine, Volume 2, Issue 5, May/June 1998

Sweet cherry cultivar evaluation is one component of the research conducted at the Cedar Springs Research Station. The present trial was established in 1992, and contains 38 cultivars, which includes most of the current commercial cultivars, as well as selections from breeding programs in Vineland, ON., Summerland BB., and Geneva, NY.

Harvests began on some cultivars in 1994, and most cultivars were producing by 1997. While the local crop was relatively light in 1997, the crop at the research station was good. The following information covers cultivars which look promising for Southwestern Ontario. Please note that this information is preliminary, and in some cases may include only information from only a few years. 1996 harvest data is not included because of hail damage.

Vandalay

(V690618) Most productive cultivar in the trial, as well as being one of the most precocious. Yields are 70% higher than Hedelfingen with a familiar fruit size and fruit firmness. Matures 7 days before Hedelfingen. High percentage split (twice that of Hedelfingen). Tree is spreading and leafy, with good fruit distribution. Dark flesh color, pit removal is easy.

NY-3308 High Yielding (25% higher than Hedelfingen), precocious with a fruit size similar to Hedelfingen. Matures 8 days before Hedelfingen. Average flavor, firmness, splits. Not self fertile. Low, spreading tree. Cropping seems variable.

NY-6476 Productive, precocious, fruit size slightly smaller than Hedelfingen. Matures with Hedelfingen. Firm with average splits. Relatively light flesh color. One of the most precocious cultivars in the trial, but cropping seems variable. Not self fertile.

Tehranivee

(V690620) Productive, moderate fruit size (slightly less than Hedelfingen for both characteristics). Not as precocious as Hedelfingen

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or Vandalay. Matures similar to Hedelfingen. Few splits, relatively firm with average flavor. Somewhat upright growth habit.

Sweetheart

(13S-22-8) High yielding, average fruit size. Matures 10 days after Hedelfingen. Not as precocious as Hedelfingen or Vandalay. Average flavor and firmness. Moderate amount of splits. Self fertile; upright growth habit but weeps with fruit weight. Top-rated late season sweet cherry selection from Summerland breeding program.

13S5-22 Moderate yields and fruit size. Matures 8 days earlier than Hedelfingen. Good resistance to splitting. Firm with good flavor. Self fertile; somewhat erect growth habit.

Submitted by Jerome L. Frecon, Agricultural Agent ☐

Canadice Grapes in Gloucester & Cumberland County

Jerome L. Frecon, Agricultural Agent

Canadice, a seedless grape, is winter hardy in southern New Jersey, although trunk injury has occurred on some sites. It produces medium clusters with small red berries that are similar to Delaware (excellent in flavor and appearance). With cordon training systems and careful management, Canadice clusters may average 0.5 lb., and the vines can be extremely productive. Cluster thinning is necessary. Fruit rot is a problem in wet years because the clusters are excessively compact.

Canadice is very sensitive to oxidant stippling caused by ozone in southern New Jersey. ☐

Fruit IPM

Dean Polk, Agricultural Agent

Peach

Tarnished Plant Bug (TPB) and Other Catfacing Insects: Sweep samples show that most catfacing insect populations are composed of tarnished plant bugs, and that these populations are largely adults in southern counties, while many nymphs are still present in northern counties. Mowing should be done on a regular basis. If large numbers of adults are present, then mowing should be preceded by an insecticide application. In most areas in southern counties, no more than 1% recent catfacing injury is present. However, bleeding and cracking from physiological injury is more common than catfacing injury in some blocks.

Peachtree Borer (PTB): Adult moths have started to emerge. The single generation will continue to emerge through August and into early September. Most egg laying will occur during the months of July and August. Unlike the lesser peachtree borer, PTB feeds around the crown and roots at the base of the tree. It is not associated with Cytospora cankers. Treatments are applied once per year in New Jersey, near the end of the flight after most eggs have been laid. Some growers have continued to have PTB problems, either from lack of coverage, or sprays applied too late. Pheromone mediated mating disruption is another form of treatment that may be used. We have worked with a number of growers who used mating disruption with very promising results over the last 3-4 years.

Oriental Fruit Moth: Cooler weather has slowed down the emergence of the second flight. One site in Gloucester County has young trees with terminal flagging and some infested fruit from the first brood. The larvae that remain are almost fully grown.

Apple

Apple/Spirea Aphid Complex: Colony size has increased over the last week, yielding heavier colonies which may be treated if on excess of 50% of the terminals. These should be tolerated as much as possible, particularly if the crop is light.

Codling Moth (CM): While treatments for the first generation have been completed, trap counts remain above 5 moths per trap in many locations, particularly around Richwood and in many blocks in northern counties. Treatments continue to be justified for this insect if counts remain above 5 moths per trap per week.

Tufted Apple Budmoth (TABM): Treatments for TABM will be needed by mid-week to the weekend in southern counties (4th alternate middle spray) and by mid-week in central counties for the 3rd spray.

Apple Scab: Spore tower counts done on 5/1 yielded 238 spores, 5/

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Degree Day Accumulations Since Biofix and Spray Targets								
June 8								
Insect	Hammonton	Bridgeton	Hardingville	CreamRidge	Princeton	Oldwick	Pittstown	Hackettstown
OFM	Done	Done	Done	Done	Done	Done	Done	Done
TABM	818	79	828	727	722	710	535	468
CM	566	585	607	549	532	519	—	398
Spray Targets:								
OFM	200 & 400 DD ₄₅ after biofix (1 st generation).							
TABM	490, 625, 763, 898 DD ₄₅ after biofix (1 st generation). 2228, 2415, 2605, 2795 DD ₄₅ after biofix (2 nd generation).							
CM	250 DD ₅₀ after biofix plus 14 days later (1 st generation). 1250-1300 DD ₅₀ after biofix plus 14 days later (2 nd generation).							

8 - 142 spores, 5/16 - 95, 5/21 - 60, and 5/29 - 18, 6/3 - 10 spores per 30 minutes. For all practical purposes, the primary infection period is over. Skybit weather forecasts and scab models indicate that additional scab infections will occur throughout most of the state 6/10-13 or 14.

Blueberry

Aphids: Aphid populations remain low, but continue to be present. We had a number of samples this past week which showed 5% or more of the terminals infested with small colonies or single aphids.

Sharpnosed Leafhopper (SNLH): Captures of SNLH increased slightly since last week. So far only Burlington County sites show SNLH activity. Where SNLH was found at 2 sites during the week of 5/29, they were found at 5 sites during the following week.

Cranberry Fruitworm (CBFW): Treatments for CBFW should have been applied by late last week. Timing for this year's treatments is very close to what we had last year. One site was seen late last week with fresh CBFW

Trap Captures

Tree Fruit – South Jersey

WEEK END:	RBLR	STLM	TABM-A	CM	AM	OFM	TABM-PLPTB	PTB
1-May	0.75	1057	1.38	2.23		15.43	7.08	
8-May	0.33	953	19.58	5.31		14.54	23.58	
15-May	0.20	108	23.44	6.59		8.05	23.58	
22-May	0.80	119	41.20	5.39		8.57	59.55	52.83
29-May	0.00	315	65.25	8.51	0.00	13.33	78.76	63.74
5-Jun	0.20	875	58.49	5.51	0.25	8.75	84.20	55.87

Tree Fruit – North Jersey

WEEK END:	RBLR	STLM	TABM-A	CM	AM	OFM	TABM-PLPTB	PTB
1-May	23.53	803	0.11	0.11		11.27	0.04	0.00
8-May	14.02	346	0.91	1.56		7.04	0.63	2.00
15-May	3.20	79	2.66	1.69		2.46	1.98	5.72
22-May	1.64	71	11.87	7.52		11.94	11.07	46.47
29-May	0.41	203	24.67	10.11		9.64	26.25	51.39
5-Jun	0.30	658	42.30	10.09		8.49	33.14	53.26

Blueberry - Atlantic Co.

WEEK END:	RBLR	OBLR	CBFW
5/1	6.4	0.08	
5/8	2.2	0	0.2
5/15	0.04	0.05	0.57
5/22	0	4.05	0.61
5/29	0.29	11.15	1.28
6/5	12.4	7.5	0.53

Blueberry - Burlington Co.

WEEK END:	RBLR	OBLR	CBFW	SNLH
5/1	2.5	0		
5/8	1.1	0.05	0	
5/15	1.06	0.06	0.00	
5/22	0	0.5	0.22	
5/29	0.1	13.3	8.8	0.08
6/5	0.89	12.17	1.61	0.47

injury. Although this does not represent the norm, sprays had not been applied in this field for some time.

Plum Curculio (PC): Egg scars continue to be found on berries near field edges that border wooded areas. Berries opened late last week showed partially developed larvae inside the fruit. The larvae are yellowish white, slightly curved with a segmented body. There is a well defined brown head capsule, but there are no legs. Full grown larvae are about 1/4" long. These will be a concern on early varieties. If you are concerned with a harvested field, the same technique used to boil berries for blueberry maggot will work for PC, although many, if not most of the infested berries will be removed by the blowers on the line.

Blueberry Maggot (BBM): The first blueberry maggot fly was captured in Atlantic County on 6/4. Adult flies should start emerging in most other areas this week and next.

Mummy Berry: Fruit infections are starting to become visible. The highest level seen in our samples was .2% as of late last week.

Viticulture Twilight Meeting

Friday, June 19th, 6:00 p.m.

Rutgers Fruit Research & Extension Center
283 Rt. 539, Cream Ridge, NJ

Sponsored by the Garden State Wine Growers Association

Call Dr. Joe Fiola at the Rutgers Fruit Research & Extension Center at (609) 758-7311 for further information. □

NJ Peach Fest & Tomato Expo

The New Jersey Peach Festival and Tomato Expo will be featured at the Gloucester County 4-H Fair, Thursday through Sunday, July 23-26, at the Gloucester County 4-H Fairgrounds, Mullica Hill, NJ. Contact Chris Smith at 609-881-1411 or Marsha Gaventa 609-467-8028 for Peach Festival information or Michelle Infante at 609-863-0110 for information on the Tomato Expo. □

Rutgers Cooperative Extension - NJAES
U.S. DEPARTMENT OF AGRICULTURE
Rutgers - The State University of New Jersey
88 Lipman Drive
Cook College
New Brunswick, N.J. 08901-8525

PLANT & PEST ADVISORY

FRUIT EDITION - CONTRIBUTORS

Rutgers Cooperative Extension Specialists

Robert Belding, Ph.D., Pomology
Joseph A. Fiola, Ph.D., Small Fruit & Viticulture
George Hamilton, Ph.D., Pest Management
Norman Lalancette, Ph.D., Plant Pathology
Bradley A. Majek, Ph.D., Weed Science
Peter Oudemans, Ph.D., Plant Pathology
Sridhar Polavarapu, Ph.D., Entomology
Peter W. Shearer, Ph.D., Entomology
Craig A. Storlie, Ph.D. Agricultural Engineering

NJAES/Cook College

Joseph Goffreda, Ph.D., Breeding
Edward Durner, Ph.D., Plant Physiology
Rutgers Cooperative Extension Agricultural Agents
and Program Associates

Gloucester County, Jerome L. Frecon (609-863-0110)
Hunterdon County, Winfred P. Cowgill, Jr. (908-788-1338)
Morris County, Peter J. Nitzsche (973-285-8300)
Warren County, William H. Tietjen (908-475-6505)
Fruit IPM, Dean Polk (609-758-7311)
Meredith Peters, Program Associate (908-788-1338)
Gene Rizio, Program Associate (609-566-2900)
David Schmitt, Program Associate (609-863-0110)

Newsletter Production

Jack Rabin, Assistant Director, NJAES
Cindy Rovins, Editor and Designer

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