

# PLANT & PEST ADVISORY

FRUIT EDITION \$1.50

SEPTEMBER 5, 2000



## INSIDE

North Jersey Apple Maturity  
Advances ..... 1

Fruit IPM..... 2

### North Jersey Apple Maturity Advances

*Jeremy Compton, North Jersey Tree Fruit Technician, Win Cowgill, Agricultural Agent, Meredith Peters, North Jersey Fruit IPM Program Associate*

The cool weather that arrived Monday night will begin to slow apple maturity. Gala harvest began last week in Hunterdon County. Although this cool weather will be good for increased red color, it will hinder the development of sugars in an already poor sugar year.

**McIntosh** – McIntosh harvest should be underway in North Jersey. Maturity indicators show McIntosh maturity too advanced at this time for long term storage. Harvest should now focus on short-term storage and fresh market sales. It is recommended that Macs be harvested for long term storage between 5 and below 6 on the Starch chart.

	<u>Warren County</u> Marshall McIntosh ReTain treated	<u>Warren County</u> Marshall McIntosh Untreated
Starch	6.4	6.6
Pressure	21	18
Brix	11	11

**Macoun** – Harvest tests conducted on Macoun over the past week from a Hunterdon County orchard site indicate that Macoun harvest is 2 to 3 weeks off. Macoun should be harvested for long term storage at around 5 on the Starch chart.

	<u>Hunterdon County</u> Macoun
Starch	1.5
Pressure	21.8
Brix	10.1

**Red Delicious** - Redchief Red Delicious maturity is progressing close to “normal”. Be aware of newer strains ripening ahead of the older standards. The cooler temperatures that are predicted this week will aid fruit color but will slow the maturity process and sugar development. It is recommended that Reds be harvested for long-term storage when they read between 2.8 and 3.5 on the Starch chart.

	<u>Hunterdon County-Pittstown</u> Redchief Red Delicious	<u>Warren County-Hackettstown</u> Redchief Red Delicious
Starch	2.4	1.7
Pressure	19.8	21.2
Brix	8.7%	8.2%

# Fruit IPM

Dean Polk, Fruit IPM Agent

## Peach

### ✓ Lesser Peachtree Borer and Peachtree Borer:

Now is the time to apply sprays to the bottoms of tree trunks for peachtree borer and to any Cytospora Cankers on the limbs for lesser peachtree borer. While adults of both species will still emerge over the next several weeks, most of the emergence for both species is over. Most eggs have been laid and young larvae have emerged or are emerging into the bark and cambium tissue. Applications should be made dilute with a handgun. Surveys have shown that populations and damage persist through airblast insecticide applications. Dilute insecticide applications should include Lorsban 4E @1.5 qt/100, Asana @5.8 oz/100, or Thiodan @1 qt/100. Lorsban remains the number one product for this purpose. It has good residual properties, and will kill young larvae that have already emerged. Asana will also work, but is less "forgiving" during poorer application procedures.

## Apple

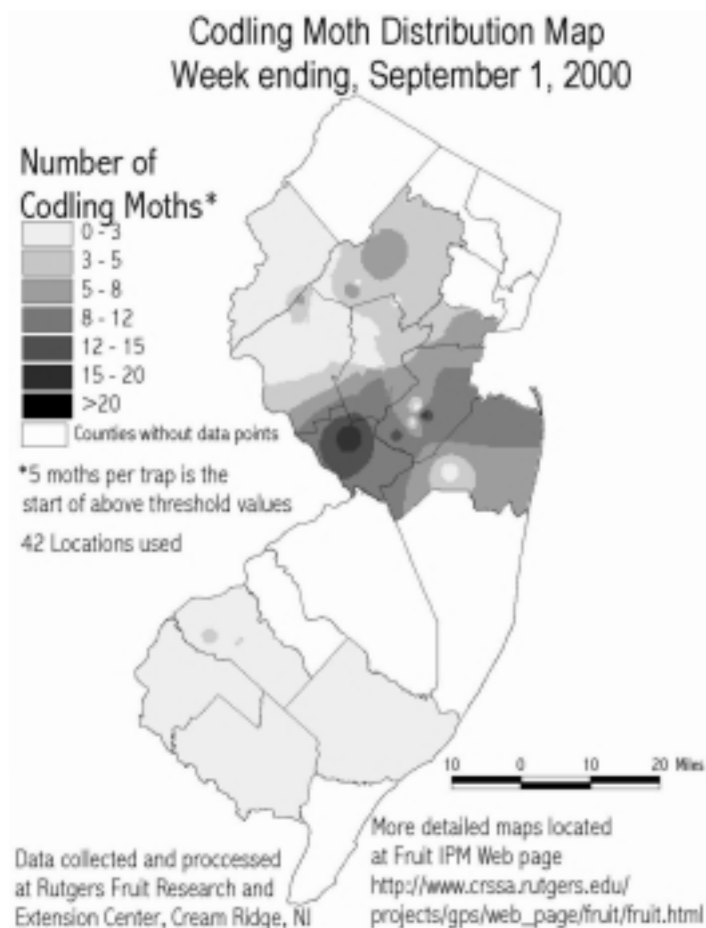
### ✓ Codling Moth (CM):

Flight activity has decreased some, but is generally at higher levels in northern counties than in southern counties (see map). Growers in northern counties should still include insecticide for CM if picking is greater than 2 weeks away, and trap counts exceed 5 males per trap.

### ✓ Oriental Fruit Moth (OFM):

While not normally an apple pest, this pest is present in apples and will be found in the fruit if not controlled. As can be seen from the pest distribution map, OFM adults are at high levels over most of the state. Protection should

be maintained in apples, even if **codling moth** counts are low. There are four generations of OFM as compared to two generations of CM. Insect pressure is generally greater for this pest in northern counties than in southern counties.



SEE MAPS ON PAGE 3

## Insect Trap Counts

### South Jersey Tree Fruit

Week Ending	AM	CM	LPTB	OFM	PTB	STLM	TABM-A	TABM-P
8/4	0.08	4.12	14.63	34.04	5.83	1572.94	5.67	19.31
8/11	0.18	3.18	18.04	39.42	6.43	1127.81	14.09	19.21
8/18	0.36	2.17	27.35	34.56	6.41	1088.65	15.16	14.89
8/25	0.17	0.97	33.40	26.62	6.20	782.06	9.50	15.07
9/1	0.17	1.69	32.59	35.73	5.95	547.81	13.38	25.00

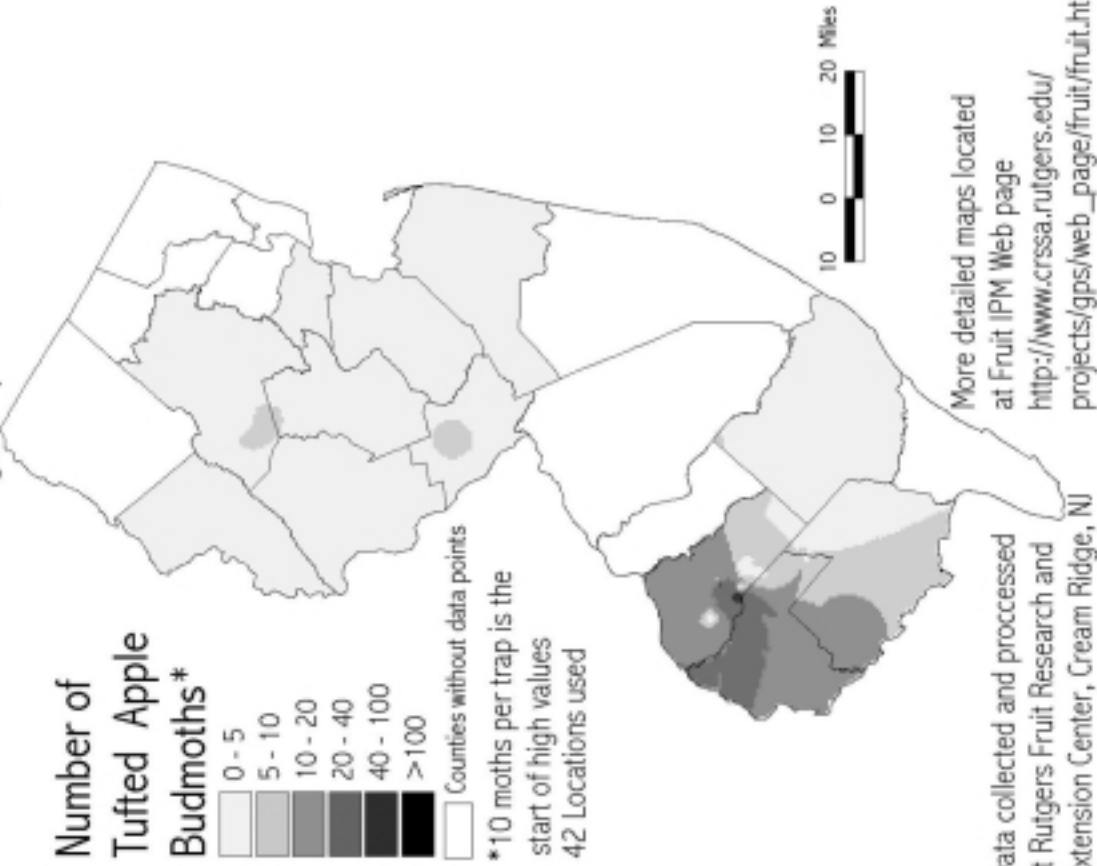
### North Jersey Tree Fruit

Week Ending	AM	CM	LPTB	OFM	PTB	STLM	TABM-A	TABM-P
8/4	0.00	1.50	0.00	11.33	0.00	216.14	0.00	0.00
8/11	0.13	3.63	0.25	14.15	1.15	425.77	0.56	0.17
8/18	0.00	9.42	0.13	23.42	6.43	912.96	2.72	2.52
8/25	0.37	5.46	0.71	48.94	10.24	1035.75	2.88	5.67
9/1	0.08	4.20	0.29	47.49	5.37	851.98	3.36	8.78

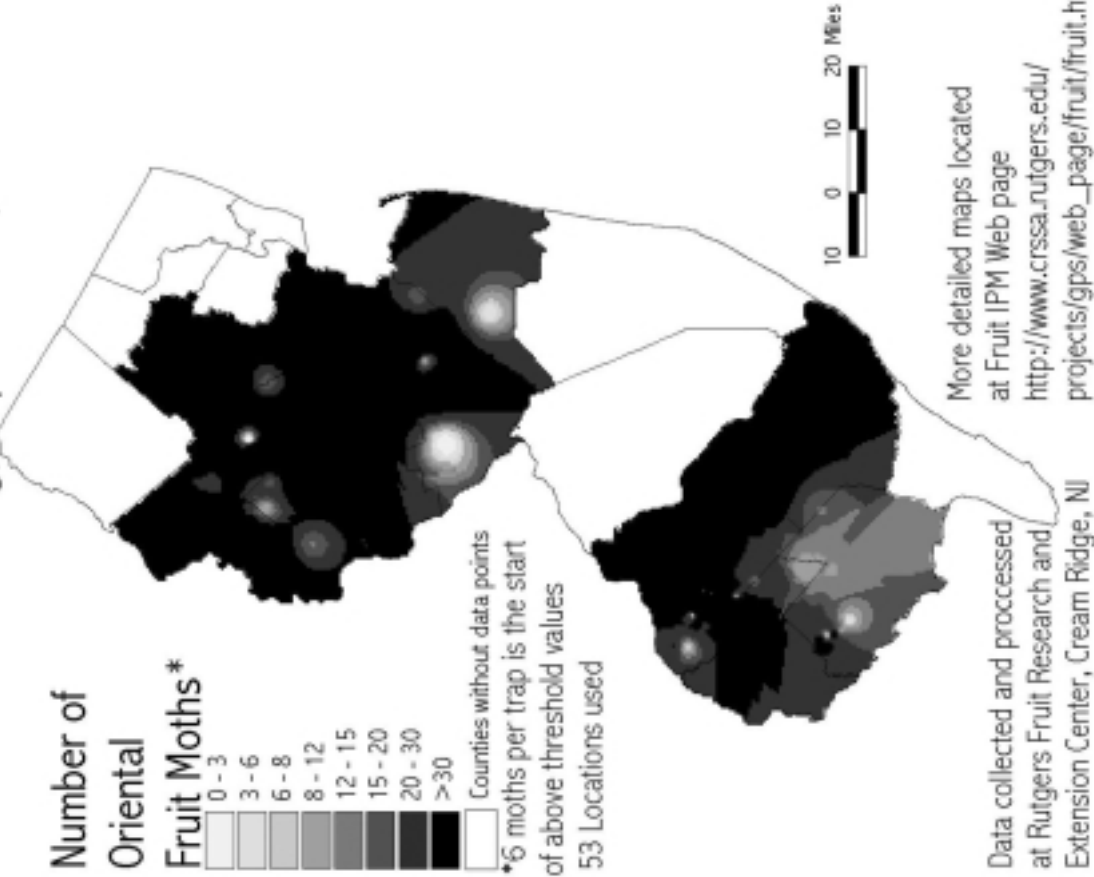
## Blueberry

Week Ending	Atlantic County					OB	Burlington County					
	RBLR	OBLR	CBFW	SNLH	BBM		RBLR	OBLR	CBFW	SNLH	BBM	OB
8/4	—	—	—	0.26	0.26	—	—	—	—	1.66	0.23	—
8/11	—	—	—	0.83	—	—	—	—	—	9.8	—	—
8/18	—	—	—	2.61	—	—	—	—	—	6.54	—	—
8/25	—	—	—	1.02	—	—	—	—	—	4.59	—	—

### Tufted Apple Bud Moth Distribution Map Week ending, September 1, 2000



### Oriental Fruit Moth Distribution Map Week ending, September 1, 2000



Rutgers Cooperative Extension - NJAES  
U.S. DEPARTMENT OF AGRICULTURE  
Rutgers - The State University of New Jersey  
Plant & Pest Advisory  
18 College Farm Road  
Cook College  
New Brunswick, N.J. 08901-8551

## **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  
Nicholi Vorsa, Ph.D., Breeding, Genetics and Culture

#### NJAES/Cook College

Joseph Goffreda, Ph.D., Breeding

#### Rutgers Cooperative Extension Agricultural Agents and Program Associates

Atlantic County, Gary C. Pavlis, Ph.D. (609-625-0056)  
Gloucester County, Jerome L. Frecon (856-307-6450)  
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 (856-566-2900)  
David Schmitt, Program Associate (856-307-6450)

#### Newsletter Production

Jack Rabin, Assistant Director, NJAES  
Cindy Rovins, Editor and Designer  
Mary Ann Hughes, Assistant Editor

**Rutgers Cooperative Extension (RCE)** provides information and educational services to all people without regard to sex, race, color, national origin, disability, or age. RCE is an Equal Opportunity Employer.

**Pesticide User Responsibility:** Use pesticides safely and follow instructions on labels. The pesticide user is responsible for proper use, storage and disposal, residues on crops, and damage caused by drift. For specific labels, special local-needs label 24(c) registration, or section 18 exemption, contact RCE in your County.

**Use of Trade Names:** No discrimination or endorsement is intended in the use of trade names in this publication. In some instances a compound may be sold under different trade names and may vary as to label clearances.

**Reproduction of Articles:** RCE invites reproduction of individual articles, source cited with complete article name, author name, followed by Rutgers Cooperative Extension, Plant & Pest Advisory Newsletter.