



Newsletter Extension

Fruit ICM News

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In This Issue:

[Calendar](#)

[Pre-harvest Intervals for Common Insecticides](#)

[Fruit Observations & Trap Reports](#)

[Ohio Degree-Days](#)

[Ohio Drought Conditions](#)

[Terminal Wholesale Fruit Prices](#)

[Preliminary Climatological Report for August](#)

Calendar

September 18-20: Farm Science Review - Pesticide credit can be earned at 2001 Farm Science Review! For more information, contact the Pesticide Education Program, OSU Extension, at 1-614- 292-4070 or visit the website at <http://www.ag.ohio-state.edu/~pested>

Pre-Harvest Intervals (PHI) for Common Insecticides

Source: Greg Krawczyk and Larry A. Hull, Fruit Times, Vol.20, No.15; and Ohio Commercial Tree Fruit Spray Guide 2001

With pear harvest already underway and apple harvest starting, it is very important to always check the legal pre-harvest intervals (PHI) before deciding which pesticide will be used for late season insect control. As a reminder for the more commonly used insecticides, the PHIs are as follow:

Azinphos-methyl (Guthion) 14 day PHI on apples if applied less than 1 pounds of active ingredient (AI) per acre; 21 days on apples if more than 1 pounds AI per acre; 7 days on pears. On apples, no more than 4.5 pounds/acre of AI can be applied during a season.

Carbaryl (Sevin) 3 day PHI on apples and pears. On apples, no more than 15 pounds of AI is allowed per acre/season.

Esfenvalerate (Asana) 21 day PHI on apples; 28 days on pears; 14 days on stone fruit. On apples, no more than 0.525 lb of AI per acre/season is allowed.

Fenpropathrin (Danitol) 14 day PHI on apples and pears. On both crops, no more than 0.8 pound of AI is allowed per acre/season.

Indoxacarb (Avaunt) 28 day PHI on apples and pears. On both crops no more than 0.44 pound of AI is allowed per acre/season.

Methomyl (Lannate) 14 day PHI on apples; 7 day PHI on pears. On apples, no more than 4.5 pounds of AI/acre is allowed; on pears, no more than 1.8 pounds of AI per acre/season.

Methoxyfenozide (Intrepid) 14 day PHI on apples and pears. No more than 1.0 pound of AI allowed per acre/season.

Phosmet (Imidan) 7 day PHI on apples and pears. On apples, no more than 21 pounds of AI per acre/season is allowed.

Spinosad (SpinTor) 7 day PHI on apples. Not labeled for pears. No more than 0.45 pound of AI is allowed per acre/season on registered fruit crops.

Tebufenozide (Confirm) 14 day PHI on apples and pears. No more than 1.86 pounds of AI per acre per season.

Please make certain that you check the PHI intervals with the actual label on the pesticide container.

Fruit Observations & Trap Reports

Insect Key	
AM:	apple maggot
CM:	codling moth
ESEB:	eye-spotted budmoth
LAW:	lesser apple worm
LPTB:	lesser peachtree borer
OBLR:	obliquebanded leafroller
OFM:	oriental fruit moth
PTB:	peachtree borer
RBLR:	redbanded leafroller
SJS:	San Jose scale
STLM:	spotted tentiform leafminer
TABM:	tufted apple budmoth
VLR:	variegated leafroller

Waterman Lab, Columbus, Dr. Celeste Welty, OSU Extension Entomologist

Traps used: STLM = Wing trap, SJS = Pherocon V, Codling Moth = mean of 3 MultiPher® traps,

Others = MultiPher

Apple: 8/29 to 9/5

STLM: 111 (up from 39)
RBLR: 70 (up from 23)
CM (mean of 3 traps): 13.7 (up from 4.0)
SJS: 2 (down from 4)
OFM: 4 (down from 5)
AM(sum of 3 traps): 0 (unchanged)

Peach: 8/29 to 9/5

OFM: 3 (down from 4)
LPTB: 3 (up from 1)
PTB: 0 (unchanged)

Site: East District; Erie & Lorain Counties

Source: Jim Mutchler, IPM Scout

Traps Used: STLM=wing traps, SJS=Pherocon-V, Others=MultiPher®

Apple: 8/29 to 9/4

STLM:
CM: 2.5 (up from 1.3)
SJS: 0.0 (unchanged)
OBLR: 11 (up from 2.8)
RBLR: 7.0 (down from 8.0)
AM: 0.6 (down from 3.5)

Peach: 8/29 to 9/4

OFM: 1.7 (down from 4.7)
LPTB: 11.0 (down from 17.3)
PTB: 1.3 (down from 3.3)
RBLR: 8.7 (up from 7.7)

Beneficials include: green lacewing adults everywhere, lady beetles, *Stethorus punctum*

Site: West District; Huron, Ottawa, & Sandusky

Source: Gene Horner, IPM Scout

Traps Used: STLM=wing traps, SJS=Pherocon-V, PC = circle traps, Others=MultiPher® traps

Apple: 8/29 to 9/4

STLM: 5 (down from 42)
CM: 0.4 (down from 0.2)
SJS: 1.4 (down from 4.2)
RBLR: 16 (up from 15.7)
AM: 2.2 (down from 5.6)
PC: 0.0 (unchanged)
OFM: 62 (up from 27)

Peach: 8/29 to 9/4

OFM: 21.3 (up from 5.4)

LPTB: 18.8 (up from 18.2)

PTB: 1.7 (up from 0.3)

RBLR: 18.3 (down from 19.0)

Other pests include oriental fruit moth flagging, lilac borer, codling moth damage, tarnished plant bug damage, plum curculio damage

Beneficials include: predatory mites, green lacewings eggs and adults, banded thrips, lady beetles, *Stethorus punctum*

Degree Day Accumulations for Selected Ohio Sites January 1, 2001 to Date Indicated

	Reported Degree Day Accumulations				Normal Degree Day Accumulations		Forecasted Degree Day Accumulations September 5	
	August 22		August 29		August 29		Base 45° F	Base 50° F
Location	Base 45° F	Base 50° F	Base 45° F	Base 50° F	Base 45° F	Base 50° F		
Akron - Canton	2810	2142	2991	2288	3114	2380	3125	2376
Cincinnati	3358	2625	3565	2797	3754	2951	3917	3078
Cleveland	2855	2197	3039	2346	3187	2459	3087	2459
Columbus	3354	2639	3551	2802	3726	2942	3447	2663
Dayton	3195	2597	3384	2651	3552	2784	3529	2744
Mansfield	2794	2130	2969	2269	3108	2374	3099	2355
Norwalk	2826	2174	3009	2319	3158	2433	3056	2327
Piketon	3293	2554	3495	2721	3670	2861	3821	2984
Toledo	2935	2272	3135	2437	3301	2568	3049	2322
Wooster	2875	2206	3059	2355	3199	2460	2944	2208
Youngstown	2694	2032	2873	2175	3000	2267	2885	2158

Ohio Drought Conditions

Conditions in Ohio according to Long Term Palmer Drought Severity Index & NOAA

Source: http://www.cpc.ncep.noaa.gov/products/analysis_monitoring/regional_monitoring/palmer.gif

Region	(1) Category of Drought September 1
Northeast Ohio	Moderate Drought
Northeast Hills	Moderate Drought
North Central Ohio	Moderate Drought
Rest of State	Near Normal

Terminal Market Wholesale Fruit Prices September 5, 2001

Sources:

Chicago http://www.ams.usda.gov/mnreports/HX_FV010.txt

Detroit http://www.ams.usda.gov/mnreports/DU_FV010.txt

Pittsburgh http://www.ams.usda.gov/mnreports/PS_FV010.txt

	Chicago	Detroit	Pittsburgh
Apples, cartons, 12 3-lb filmbags			
U.S. Fancy Earligold		MI 2 ½" min 12 - 12.50	
U.S. Fancy Gold Supreme		MI 2 ½" min 10.00	
U.S. Fancy Paula Red	WI 2 ½" min 10.50 - 11	MI 2 ½" min 11.50-12.50	
U.S. Fancy Jersey Mac	WI 2 ½" min 10.50 - 11		
U.S. Fancy McIntosh			NY 2 ½" min 12.50
U.S. ExFancy Tydeman Red			NY 2 ½" up 8.50 - 9.50
U.S. ExFancy Royal Gala			PA 2 ¼" min 11.00
U.S. ExFancy Ginger Gold			PA 2 ¼" min 10.50
U.S. ExFancy Paula Red			PA 2 ¼" min 10.50
Apples, bushel cartons, loose			
U.S. Fancy Ginger Gold		MI 3" min 14.50 - 15.00	

U.S. Fancy Gold Supreme		MI 3" min 13.50 - 14.00	
U.S. Fancy Greening		MI 2 ¾" up 14.50 - 15.00	
U.S. Fancy Northern Spy		MI 2 ¾" up 14.50 - 15.00	
U.S. Fancy Paula Red		MI 2 ¾" up 12.00 2 ½" up 11.50 - 12.00	
Blueberries , 12 1-pt cups	MI 22.00 - 23.00	MI med 22.00 - 24.00	MI med-lg 21.50 - 22.50
Peaches , 25 lb cartons, no grade marks, various yellow flesh varieties	IL 2 ¼" up 8- 10.00 MI 2 ¼" up 8.00		
Peaches , 25 lb cartons, U.S. One various yellow flesh varieties			
Peaches , 25 lb cartons, U.S. Fancy various yellow flesh varieties			NJ 2 ½" min 9.00- 10.50
Peaches , ½ bu cartons, U.S. ExOne various yellow flesh varieties		MI 2 ¾" up 12.25 - 14.00 2 ½" up 9.75 - 10.25	
Peaches , ½ bu cartons, U.S. One various yellow flesh varieties		MI 2 ½" up 8.50 - 10.00 2 ¼ up 9.00 - 10.00 2" up 8.00 NJ 2 ¾" up 11.00 - 12.00 2 ½" up 11.00 - 12.50 2 ¼" up 6.00 - 7.00	
Peaches , ½ bu cartons, U.S. ExOne Blakes			WV 2½" up 9.75 - 11.00
Peaches , ½ bu cartons, U.S. Fancy Blakes			PA 2 ½" up 11.50
Peaches , 38 lb cnts, unclassified, various yellow flesh varieties			NJ 2 ½" min 7.00 - 8.00
Pears , ½ bu cartons, U.S. Fancy Seckel			NY 16.00 - 17.00
Prune Plums , 30-lb cartons U.S. One Stanley		MI 1¼" min 12.50-13.00	
U.S. One Valor		MI 1¼" min 12.00	

Preliminary Monthly Climatological Data for Selected Ohio Locations August 2001

Weather Station Location	Monthly Precip	Normal Monthly Precip	Year-to-Date Precip	Normal Year-to-Date Precip	Average High	Normal High	Average Low	Normal Low	Mean Temp.	Normal Mean
Akron-Canton	4.01	3.32	20.67	25.19	82.2	80.4	62.5	60.0	72.4	70.2
Cincinnati	5.00	3.35	29.33	28.98	83.8	84.1	65.9	62.9	74.9	73.5
Cleveland	3.31	3.40	19.75	24.39	81.5	80.5	63.6	60.3	72.6	70.4
Columbus	4.15	3.72	25.25	26.90	83.9	82.1	66.5	60.8	75.2	71.5
Dayton	6.40	3.20	26.81	25.62	82.1	83.0	64.9	61.3	73.5	72.4
Mansfield	4.30	4.08	21.04	27.36	80.7	80.1	61.5	60.4	71.1	70.3
Norwalk	3.88	3.46	18.95	24.59	80.7	80.7	63.0	58.8	71.9	69.8
Piketon	n.a.	3.60	n.a.	30.30	85.0	83.7	64.2	60.7	74.6	72.2
Toledo	2.48	3.25	18.79	22.28	83.9	81.3	62.9	58.4	74.4	69.9
Wooster	5.13	3.72	17.83	25.15	83.1	82.0	61.5	57.9	72.3	70.0
Youngstown	3.87	3.32	18.00	25.18	82.7	79.6	60.5	57.9	71.6	68.8

Temperatures in degrees F, Precipitation in inches

Record tied: High of 91F on August 1 tied record established for Mansfield in 1995

Table Created by Ted W. Gastier, OSU Extension from National Weather Service, OARDC, & Local Data

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| [Back](#) |