



# Newsletter Extension

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## Drought Conditions in Ohio as of October 2, 1999

<u>Region</u>	<u>Category of Drought</u>
NW Ohio	Moderate
WCentral Ohio	Severe
SW Ohio	Extreme
SCentral Ohio	Extreme
Central Ohio	Extreme
NCentral Ohio	Moderate
NE Ohio	Near Normal
Central Hills	Moderate
NE Hills	Moderate
SE Ohio	Severe

Source: [http://www.cpc.noaa.gov/products/analysis\\_monitoring/regional\\_monitoring/palmer.gif](http://www.cpc.noaa.gov/products/analysis_monitoring/regional_monitoring/palmer.gif)

## Minor Use Pesticides Prioritized in 1999 IR-4 Food Use Workshop

Source: Annemiek Schilder, John Wise, and Bernard Zandstra, MSU's Fruit Crop Advisory Team Alert, Vol. 14, No. 18, October 1, 1999

Due to the current review of crop protection chemicals under the Food Quality Protection Act and the high cost to industry of product registration, minor crops are at risk of having fewer products available for weed, insect pest, and disease control. To mitigate this problem, IR-4 (USDA Interregional Research Project No. 4) facilitates pesticide registration of minor crops by funding residue trials, and more recently, efficacy and phytotoxicity trials.

Priorities for the year-2000 research program for most fruits, vegetables, and herbs grown in the U.S. were assigned at the 23<sup>rd</sup> Food Use Workshop held August 25-27 in Denver, Colorado. The workshop was attended by minor crop researchers; extension specialists; growers; representatives of commodity groups and industry; and personnel from EPA, USDA, and IR-4. A total of 142 attendees participated in the workshop and a total of 559 potential research projects were reviewed.

Participants were provided with lists of new or soon-to-be-registered pesticides, and they were asked to rank products based on need, performance, safety, and availability and efficacy of alternatives. A limited number of projects could be assigned "A" or "B" priority. An "A" priority allows IR-4 to begin research immediately for submission of data to EPA scheduled for 2002. "B" priority projects are funded as resources permit. Projects with a "C" or "D" rating are not likely to get funding.

Priority "A" and "B" projects are listed in the accompanying table. Many of these compounds are considered "reduced-risk," which means they have low mammalian and environmental toxicity. In addition, biocontrol and systemic-induced resistance (SAR) products, like Serenade and harpin, respectively, are featured.

Fungicides

<b>Priority A - Products</b>	<b>Crops</b>	<b>Target disease(s)</b>
Cyprodinil + Fludioxinil	Pear	Gray mold
Fenhexamid	Blueberry, caneberry, cherry, peach, pear, plum	Gray mold, fruit rots, brown rot, phomopsis
Sodium tetrathiocarbonate	Pear	Oak root fungus, nematodes, general soil replant problems
<b>Priority B - Products</b>	<b>Crops</b>	<b>Target disease(s)</b>
Cyprodinil + Fludioxinil	Apple	Gray mold
Fenhexamid	Apple	Gray mold
Harpin	Caneberry	Fruit rots, foliar diseases
Mefenoxam+copper	Caneberry	Downy mildew
Serenade	Blueberry	Fruit rots, gray mold

### Insecticides

<b>Priority A - Products</b>	<b>Crops</b>	<b>Target pest(s)</b>
Abamectin	Caneberry	Two-spotted spider mites
Imidacloprid (treated spheres)	Apple	Apple maggot fly
Thiamethoxam	Cherry	Plum curculio
<b>Priority B - Products</b>	<b>Crops</b>	<b>Target pest(s)</b>
Bifenazate	Caneberry, cherry	European red mites, spider mites
Buprofezin	Cherry, peach	Aphids, scales
Imidacloprid (treated spheres)	Blueberry (high bush)	Blueberry maggot, aphid, whitefly
Imidacloprid (treated spheres)	Caneberry	Aphid, whitefly, leafhopper
Methoxyfenozide	Blueberry (high bush), Strawberry	Fruitworm, leafroller, beet armyworm, cutworms, corn earworm
Pirimicarb	Peach	Green peach aphid
Pyriproxifen	Grape	Grape berry moth
Spinosad	Peach	Thrips, tufted apple bud moth
Thiamethoxam	Blueberry, peach, plum	Plum curculio, Japanese beetle, green peach aphid, blueberry aphid, rose chafer

### Herbicides

<b>Priority A - Products</b>	<b>Crops</b>	<b>Target weed(s)</b>
Azafenidin	Blueberry	Annual weeds
Glyphosate	Strawberry	Weeds
Oxyfluorfen	Strawberry (annual)	Broadleaf weeds
Sulfentrazone	Strawberry	Annual weeds
<b>Priority B - Products</b>	<b>Crops</b>	<b>Target weed(s)</b>
Bensulide	Strawberry (perennial)	Broadleaf weeds
Bentazon	Apple	Yellow nutsedge
Clethodim	Apple, cherry, peach, plum	Annual and perennial grasses
Fluroxypyr-methyl	Apple, cherry, peach, pear, plum	Woody perennial broadleaf weeds
Oxyfluorfen	Caneberry	Primocane suppression
Pendimethalin	Strawberry (annual)	Weeds
Thiazopyr	Blueberry, caneberry, kiwifruit	Annual and perennial broadleaf weeds, crabgrass, nutsedge

Triflurosulfuron

Strawberry

Weeds

**Terminal Market Wholesale Fruit Prices  
October 7, 1999**

Chicago <a href="http://www.ams.usda.gov/mnreports/HX_FV010.txt">http://www.ams.usda.gov/mnreports/HX_FV010.txt</a>			
Apples - market about steady	Pears	Peaches	Prune Plums
<u>Cartons 12 3-lb filmbags Michigan</u> US Fancy Red Delicious 2 ½" min 8.00 - 10.00 Jonathan 2 ½" min 8.00 - 10.00 McIntosh 2 ½" min 10.50-11.00 Paula Red 2 ½" min 10.00  <u>Cartons 8 5-lb filmbags Michigan</u> US Fcy Golden Delicious 2 1/4" min 10.00  <u>Bushel cartons loose Michigan</u> No Grade Marks  No Size Marks-Red Delicious 9.00 -10.00 No Size Marks-Golden Delicious 10.00 No Size Marks-Jonathan 10.00 No Size Marks-McIntosh 10.00 No Size Marks-Empire 9.00 - 10.00	California and Washington only	California and Washington only	Oregon only
Detroit: <a href="http://www.ams.usda.gov/mnreports/DU_FV010.tx">http://www.ams.usda.gov/mnreports/DU_FV010.tx</a>			
Apples - market about steady	Pears	Peaches	Prune Plums
<u>Cartons 12 3-lb filmbags Michigan US ExFancy</u>  Red Delicious 2 1/2" min 10.50 - 12.00 US Fcy Red Delicious 2 ½" min 9.00 - 10.00 Golden Delicious 2 ½" min 10.00 - 12.00 McIntosh 2 ½" min 10.00 - 12.00 Empire 2 ½" min 10.00, few 12.00 Gala 2 ½' min 14.00 - 14.75  <u>Bushel Cartons Loose</u> Michigan No Grade Marks Red Delicious 2 ½" up 10-12.00	California and Washington only	<u>Cartons/Lugs 2-layer traypack</u> Pennsylvania US Fancy various yellow flesh varieties 35's 13.00 - 14.00 40-42's 13.00 - 14.00  <u>½ Bushel Cartons</u> Pennsylvania US Fancy various yellow flesh varieties 2 ½" min 11.00 - 12.00  New Jersey US ExOne various yellow flesh varieties 2 3/4" up 14.00 - 16.00 fair appearance 10.00  <u>3/4 Bushel Cartons</u>	No offerings

Red Delicious 2 3/4" up 12.00, few 10.00		Pennsylvania	
Red Delicious 3" min 12.00		U.S. One various yellow flesh	
Golden Delicious 2 3/4" up 12.00, few 10.00		varieties 2 1/2" min 11.00 - 12.00	
Golden Delicious 2 1/2" up 12.00		some 14.00	
McIntosh 2 3/4" up 11.00 - 12.00			
McIntosh 2 1/2" up 10.00			
Empire 2 1/2" up 10.50-12.00			
Empire 2 3/4" up 12.00			
Pittsburgh: <a href="http://www.ams.usda.gov/mnreports/PS_FV010.txt">http://www.ams.usda.gov/mnreports/PS_FV010.txt</a>			
Apples - market steady	Pears	Peaches	Prune Plums
<u>Cartons 12 3-lb filmbags</u> New York US ExFancy	<u>10 2-lb filmbags</u> NY Seckel 10.50	<u>25 lb cartons</u>	No offerings
Golden Delicious 2 1/2" min 12.00 - 13.00	<u>1/2 cartons</u> NY Seckel 10.50	No Grade Marks various yellow flesh varieties -	
Jonathan 2 1/2" min 12.00 - 13.00		New Jersey 2 1/2" min 9.50	
McIntosh 2 1/2" min 12.00		Pennsylvania 2 1/2" min 9.50	
Paula Red 2 1/2" min/up 12.00 - 13.00		West Virginia 2 3/4" min 9.50	
Gala 2 1/2" min 14.00 - 15.00		2 1/2" min 8.50	
Jonamac 2 1/2" min 11.00 - 12.00		<u>Ctns 1 layer traypack</u> No Grade Marks various yellow flesh varieties - Pennsylvania 24's 8.00	

**Preliminary Monthly Climatological Data for Selected Ohio Locations September 1999**

Weather Station Location	Monthly Precipitation	Normal Monthly Precipitation	Year-to-Date Precipitation	Normal Year-to-Date Precipitation	Average High	Normal High	Average Low	Normal Low	Mean Temp.	Normal Mean
Akron-Canton	3.63	3.32	28.10	28.51	74.5	73.7	52.2	53.7	63.5	63.7
Cincinnati	0.86	2.88	24.96	31.96	81.9	77.9	51.6	56.6	66.8	67.3
Cleveland	1.93	3.44	22.90	27.83	76.0	73.6	53.9	54.2	65.0	63.9
Columbus	1.91	2.96	21.94	29.86	80.2	76.2	55.5	54.8	67.8	65.5
Dayton	1.05	2.54	24.39	28.16	80.5	76.5	53.1	55.1	66.8	65.8
Elyria	1.99	3.24	23.11	27.21	76.9	77.1	54.2	54.3	65.5	65.7
Fremont	1.70	3.14	22.03	26.93	76.6	75.3	51.7	52.1	64.2	63.7
Mansfield	1.63	3.38	26.67	30.74	76.0	73.7	50.3	54.0	63.1	63.8

Norwalk	1.84	3.16	26.06	27.75	76.8	74.5	52.6	52.1	64.7	63.3
Toledo	1.50	2.85	23.79	25.13	79.2	74.5	50.9	51.9	65.1	63.2
Wooster	2.23	3.24	23.89	28.39	77.6	75.5	49.3	51.4	63.5	63.5
Youngstown	4.28	3.48	33.15	28.66	74.2	72.6	50.5	51.6	62.4	62.1

Temperatures in degrees F, Precipitation in inches

Records set: *High: September 4<sup>th</sup> - 95 at Cincinnati*

*Lows: September 15<sup>th</sup> - 42 at Mansfield; September 22<sup>nd</sup> - 35 at Mansfield, 32 at Youngstown*

Record tied: *High: September 26<sup>th</sup> - 88 at Toledo*

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

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Information presented above and where trade names are used, they are supplied with the understanding that no discrimination is intended and no endorsement by Ohio State University Extension is implied. Although every attempt is made to produce information that is complete, timely, and accurate, the pesticide user bears responsibility of consulting the pesticide label and adhering to those directions.

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