

Ohio Fruit ICM News

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Comments from the Editor -

Harvest is under way across Ohio with scattered reports of fruit blown off trees from the remnants of Hurricane Ike. Plasticulture strawberry planting is finished. Still a need for a good soaking rain across most of Ohio.

Fruit Observations and Trap Reports

Waterman Lab Apple Orchards, Columbus:

9/18/08 to 9/24/08

San Jose Scale (mean of 2):	8 (up from 3 last week) -
Codling moth (mean of 3):	2.3 (up from 0.6 last week)
Codling moth DA/combo:	1 (up from 0 last week)
Lesser appleworm (mean of 2):	2 (down from 8 last week)
Tufted apple budmoth:	1 (same as last week)
Variegated leafroller:	0 (down from 1 last week)
Oblique-banded leafroller:	6 (up from 4 last week)

9/11/08 to 9/17/08

Redbanded leafroller:	6 (down from 14 last week)
Spotted tentiform leafminer:	201 (down from 427 last week)
San Jose Scale (mean of 2):	3 (same as last week)
Codling moth (mean of 3):	0.6 (up from 0.3 last week)
Codling moth DA/combo:	0 (down from 1 last week)
Lesser appleworm (mean of 2):	8 (down from 7 last week)
Tufted apple budmoth:	1 (same as last week)

Variegated leafroller:	1 (same as last week)
Oblique-banded leafroller:	4 (same as last week)
9/4/08 to 9/10/08	
Redbanded leafroller:	14 (down from 48 last week)
Spotted tentiform leafminer:	427 (down from 772 last week)
San Jose Scale (mean of 2):	3 (down from 5.5 last week)
Codling moth (mean of 3):	0.3 (down from 0.6 last week)
Codling moth DA/combo:	1 (down from 3 last week)
Lesser appleworm (mean of 2):	7 (down from 17.5 last week)
Tufted apple budmoth:	1 (down from 6 last week)
Variegated leafroller:	1 (up from 0 last week)
Oblique-banded leafroller:	4 (down from 7 last week)
Apple maggot (mean of 3):	0.3 (down from 1 last week)

North Central Ohio Tree Fruit IPM Program prepared by Cindy Crawford
 Ted Gastier – West District IPM Scout (Sandusky, Ottawa, Huron & Richland Co.) 9/8

Apples

Spotted tentiform leafminer – 0 (down from 169.4)
 Redbanded leafroller – 6 (down from 13)
 Oriental Fruit Moth – 2.2 (down from 5.3)
 San Jose Scale – 0 (same)
 Codling Moth – 0.6 (down from 3.7)
 Lesser Apple Worms – 0 (same)
 Apple Maggot – 0 (same)

Peaches

Redbanded leafroller- 15 (up from 8)
 Oriental Fruit Moth – 2.5 (down from 5.6)
 Lesser Peach Tree Borer – 7.8 (down from 13.3)
 Peach Tree Borer – 0.5 (down from 1.7)

Lois McDowell – East District IPM Scout (Erie and Lorain Counties) 9/8 - 9/9/08

Apples

Spotted tentiform leafminer – 0 (down from 37.6)
 Redbanded leafroller – 17.5 (up from 13.6)
 San Jose scale – 0 (down from .11)
 Oriental Fruit Moth – 9.5 (up from 8)
 Codling Moth – 4.8 (down from 10.4)
 Apple Maggot – 0.56 (down from 0.93)

Peaches

Redbanded leafroller- 17.3 (down from 21.8)
 Oriental Fruit Moth – 0.9 (down from 3.0)
 Lesser Peach Tree Borer – 1.4 (down from 11)
 Peach Tree Borer – 0.7 (down from 1.7)

Great Lakes Fruit, Vegetable and Farm Market EXPO

The EXPO is coming to Grand Rapids, MI on December 9-11, 2008. Pre-registration is open and the early discount continues until November 11. We will continue receiving registrations on-line until December 4, and then at the EXPO beginning Monday afternoon, December 8, at 4:00 pm. To register online or download the registration form, visit: <http://www.glexpo.com/register.php>

HIGHLIGHTS OF THE EXPO INCLUDE:

- * Informative education program for fruit and vegetable growers and farm marketers 50 sessions over 3 days covering Fruit and vegetable commodities, Farm marketing ideas and issues and General topics of special interest to growers. The educational program can be viewed at: <http://www.glexpo.com/seminar.php>
- * Trade show with more than 300 exhibitors covering 4 acres of exhibit space in one hall. As of early September, there are nearly 230 companies already registered for the trade show. For a current list of exhibitors, visit: <http://www.glexpo.com/exhibit.php>
- * Bus tour on Monday, December 8, for farm marketers. Five of West Michigan's top farm market and agri-tourism locations will be visited. You need to register separately for the bus tour.
- * North American Raspberry & Blackberry Association Conference will be held in conjunction with the EXPO with conference sessions on Monday, December 8, and joint sessions on Tuesday, December 9. You need to register separately for the Monday program. Tuesday's sessions are covered by your Expo registration.
- * Fruit Irrigation Systems Workshop on Thursday and Friday, December 11-12. The workshop will focus on the design and use of micro-irrigation systems (drip and micro sprinklers) for fruit plantings. You need to register separately for the workshop.

Find all the details of the 2008 Great Lakes Fruit, Vegetable and Farm Market EXPO on-line at: <http://www.glexpo.com/>

Please feel free to contact us if you have any questions.

email: news@glexpo.com

phone: 734-848-8899 (Dave Smith, Michigan Vegetable Council)

phone: 269-424-3990 (Allyn Anthony, Michigan State Horticultural Society)

registration: 810-234-4126 (Hilary Morolla, "Just Your Type" Registration Services)

trade show: 616-794-0467 (Sharri German, Trade Show Manager)

Fruit Irrigation Systems Workshop

An intensive two-day workshop on fruit irrigation systems will be offered in conjunction with the 2008 EXPO. The focus of the workshop will be on the design and use of micro irrigation systems (drip and micro sprinklers) for fruit plantings. The workshop program starts at 8 a.m. on Thursday, December 11 and will conclude by 4 p.m. on Friday,

December 12. It will be held in the Emerald Room of the Amway Grand Plaza Hotel. The EXPO's convention room rate will be available on Thursday evening at the Amway.

Dr. Stuart Styles, an outstanding workshop presenter and a widely recognized expert on the design and use of fruit irrigation systems, will conduct the workshop. He will be assisted by Dr. Ron Perry and Dr. Jim Flore from the Department of Horticulture at Michigan State University. Dr. Styles is the Director of the Irrigation Training and Research Center at California Polytechnic State University in San Luis Obispo, California. Topics that will be covered at the workshop include the following:

- Water needs and crop response to irrigation in apples, cherries, peaches, blueberries, grapes, strawberries and brambles
- Weather and moisture cycles, soils and soil water, scheduling plant/soil water needs
- Impact of irrigation on cold hardiness
- Drip and micro irrigation systems:
 - Filtration requirements; avoiding plugging
 - Dealing with undulating terrain and variable soil types in irrigation designs
 - How efficiency and evaluation influence scheduling
- Irrigation system maintenance and fertigation systems
- Use of micro systems to deliver frost protection and pest management
- Evaluation of irrigation system performance
- Computer evaluation programs (bring your laptop for some hands-on experience)
- Irrigation equipment company representatives panel: New products and Q/A
- Water use regulations in California and the Great Lakes

To help defray the cost of the workshop to registrants, these generous sponsors have provided financial support:

- Platinum Sponsors– Automatic Supply Michigan, Spring Brook Supply
- Gold Sponsors – John Deere Water Technologies, Toro Micro Irrigation, Trickle-Eez Company, Zirk Welding & Irrigation
- Silver Sponsor – Nelson Irrigation Corp.
- Bronze Sponsor – Triple K Irrigation

Registration for the workshop will be limited to the first 100 registrants. Register by using the registration form on the back cover or go online to register at www.glexpo.com. Cost of the two-day workshop is \$100 (\$110 for those who do not also register for the EXPO). If space is available (limited to first 100), registration will be offered for \$125 during the EXPO and at the door when the workshop starts on Thursday. For more information on the workshop, contact Dr. Ron Perry at 517-355-5191, ext. 1433.

Fruit and Tree Nuts Outlook (FTS 334) 9/26/08 by Agnes Perez and Susan Pollack, USDA-ERS

Fruit Grower Prices Up in July and August

The index of prices received by fruit and tree nut growers rose almost 1 percent between June and July 2008, and 3 percent between July and August. In August, at 157 (1990-92=100), the index was at its highest since November 2007. Grower prices were

up between June and July for fresh apples, pears, and strawberries, but fell for all oranges and lemons, grapes, and peaches. Grower prices continued to climb in August for fresh apples, strawberries, and oranges, but fell for fresh lemons and pears. The small 2007/08 apple crop left stocks low at the end of the season, pushing up their prices. Apple prices rose between July and August partially due to the tight stocks from last season, but also due to the forecast for another small crop this season. As a result, apple prices rose 20 percent between July and August. The small crop this season is also responsible for driving this July's average price 45.8 percent above last July and this August's average price 55 percent above last August. Apple grower prices are likely to remain high throughout the 2008/09 season as a result of the small 2008/09 crop.

Market Strong for 2008 U.S. Apples

The USDA National Agricultural Statistics Service (NASS) initial forecast for the 2008 U.S. apple crop is 9.17 billion pounds, up nearly 1 percent from a year ago but smaller than most crops over the past decade. If realized, this year's forecast crop size will be the fourth-smallest since 1990 and 8 percent smaller than the average crop during 2004-06. Orchards across the country were affected by spring freezes and summer hailstorms but, in Washington and in many small apple producing States, 2008 production levels are expected up from last year when the total crop was the third smallest in nearly two decades. Nearly offsetting these increases are forecast production declines in other key apple states such as New York, Michigan, Pennsylvania, and California. Hail damage to the crop in New York this summer, freeze and hail damage in Michigan, insect and disease problems in Pennsylvania, and frost damage in addition to declining bearing acreage in California contributed to reduced production in these States.

Regionally, production in the western United States is going to be up 4 percent from a year ago, just barely making up for production declines in the eastern (down 4 percent) and central regions (down 8 percent). The western region will account for 65 percent of this year's U.S. apple crop while eastern and central apple-producing states will account for 25 percent and 10 percent, respectively. The market for U.S. apples remains strong early into the 2008/09 marketing season

(August-July) as demand continues strong and current supply conditions remain tight. Fresh-market apple grower prices in August set record-levels, averaging 53.4 cents per pound—the highest ever for the month and almost 9 cents higher than in July. At the retail level, using the consumer price index (CPI) for apples as indicator, apple prices were also strong. The CPI for apples in August, at 387.0 (1982-84=100), was 19 percentage point higher than the August 2007 index and was at an all-time high. The main factors behind the tight market include: lower imports through much of the second half of 2007/08, almost sold out supplies from the 2007 harvest, delayed crop maturity in many apple-producing states due to a generally cool spring, and curtailed production in some of the key apple states. NASS data show apple supplies in cold storage on July 31 were down 18 percent from the same time last year. The July storage figures also were down 49 percent from the previous month, indicating very strong demand. Through mid-September, 2008/09 fresh apple shipments were running 8 percent lower than the same time the previous season.

Fresh-market shipments will continue to build up seasonally through the fall, but based on a 3-year average share of U.S. apple production, the Economic Research

Service (ERS) projects domestic fresh-market apple production for the 2008/09 marketing season to be down 3 percent from the 6.09 billion pounds NASS estimate for 2007/08. This growth rate is consistent with projections provided by the U.S. Apple Association. If this projection holds true, the 2008 fresh-market apple crop will be 6-percent below the average of the four previous years, setting the stage for continued strong prices for fresh-market apples in 2008/09, especially as domestic production of competing pears are also forecast to be lower this year.

ERS projects that, with the smaller fresh-market crop, domestic per capita consumption of fresh apples will decline in 2008/09 by about 3 percent from the 2007/08 estimate of 16.4 pounds per person, marking 2 years in a row of declining consumption. At the current projected production, imports would need to increase substantially (by about 44 percent) to at least match the overall fresh-market supplies last season. Since the 1980s, the most that imports have grown each season ranged from 30 to 34 percent and during 2007/08, imports even fell 13 percent despite lower domestic production. About half of total import volume for fresh apples in the United States comes from Chile. While apple production and exports in Chile were estimated slightly higher for the 2008 marketing year (January-December), according to USDA's Foreign Agricultural Service, import volume of Chilean apples in the United States in 2007/08 was down 24 percent from the previous season (FAS GAIN report C18010). Except for Canada, imports were also down from other leading suppliers such as New Zealand and Argentina.

The continued weak value of the U.S. dollar may have been a contributing factor to the decline in 2007/08 imports but also frost and less than ideal late-spring temperatures led to some quality issues for the Chilean crop. Projected lower domestic fresh-market production point to likely strong import demand in the United States in 2008/09 however, Chile's export potential may be tempered by the recent drought conditions that have affected almost all of the country's agricultural production regions. Initial estimates of apple production and exports in Chile for marketing year 2009 indicate relatively unchanged levels from the prior year. Reduced world apple supplies helped strengthen international demand for U.S. fresh apples during the past season. Despite the smaller U.S. crop last year, U.S. apple exports in 2007/08 were up 6 from the previous season, totaling 1.49 billion pounds and valued at \$706.7 million. With the small apple crop in China last year, U.S. exports posted big increases to Taiwan and Hong Kong. Exports were also up to Mexico and Canada, the top U.S. export markets. Increased demand in Mexico and Taiwan were partly influenced by lower production in both these countries. Exports were very strong to Russia, an emerging market for U.S. apples. Russia's share of total U.S. exports rose to 3 percent in 2007/08, up from 1 percent the previous season. Prospects for another strong export season for U.S. apples in 2008/09 may likely be diminished by another small crop this year and recovering production in China.

SW Michigan Apple Maturity Report – 9/24 by Bill Shane and Mark Longstroth, Michigan State University

The samples for these reports are collected in Berrien and Van Buren Counties—the maturity is only a broad indication of trends for this area. The current and past summaries can be found on the SW Michigan Research and Extension Center web site:

www.maes.msu.edu/swmrec. At this site click on “publications” and then click on “fruit reports”.

General comments: Dry, sunny and moderate temperatures have allowed apple harvest to return to full speed. Sooty blotch and fly speck are very apparent on apples with little or no fungicide program for these diseases. Codling moth catches have dwindled to low levels in this year where cool temperatures have inhibited a 3rd flight. Oriental fruit moth catches are still relatively high for some blocks.

Gala - most are harvested in area.

Empire No more samples taken since the week of Sept 17. A few area orchards have not yet been picked

Jonathan (3 sites sampled). This will be the last week this variety is sampled because most orchards have been picked. Fruit firmness is averaging 17.5 lb compared to 18.9 of last week which was about 1 pound less than the previous week. Starch removal average for this week was 6 versus 4.2 last week. Brix is averaging 13.9 about the same as last week. Firmness is still excellent although starch conversion indicates flesh is well mature.

Jonagold (4 sites) are testing 18 lb, slightly less than last week. Starch removal index reading averaged 6, again a sizable jump over the previous week's value of 4.5. Average brix is 14.2, about the same as last week. Firmness is holding better than expected and with a starch conversion index ranging from mature to overmature.

Golden Delicious (10 sites). 3rd week of tests for this variety. Firmness this week averaged 17.6, down about 1 lb since last week. Starch removal index is 3.8, with 2.7 for last week and 1.6 for the week before. Average brix this week is 13.3, same as last week. Firmness has moved from excellent to acceptable for long term CA for two out of the ten blocks sampled. Starch conversion is solidly in the mature zone for the majority of the blocks.

Red Delicious (7 sites). This is the 2nd week of sampling for this variety. Maturity is sufficient to allow harvesting of some blocks of some main season strains, especially redder types. Firmness is averaging 18 lb, compared to 19.2 lb for last week, starch conversion is 3.8 compared to last week's 2.4, and brix is averaging 11.9 compared to last week's 10.7 Harvest of main season Red Delicious is proceeding rapidly in SW Michigan.

IdaRed (6 sites). This is the first week of sampling. Firmness was 18.2 lb, starch conversion of 2.7 and brix of 11.4. Both high firmness and low conversion of starch will allow harvest to be delayed if desired. This report and project is made possible by the support of our sponsors which include Michigan Apple Committee, Michigan State Horticultural Society, Michigan Agricultural Experiment Station, and Michigan State University Extension. SW growers providing apples include Grandview Orchards,

Mammoth Farms, Oak Hill, Bixby Orchards, Willmeng Farms, Weckworth Farms, and Czuba Farms.

East Michigan Apple Harvest - 9/24 by Bob Tritten, District Extension Fruit Educator

Summary: This week we tested 8 apple varieties ranging from Redcort through Golden and Red Delicious and Northern Spy. McIntosh harvest is pretty much wrapped up across the region, however there are several farms that had a good crop of McIntosh that moved on to spot pick other varieties that are ready and needed for the marketplace, and have now gone back to finish off McIntosh harvest. Most of these Mac's will be used for immediate sales and cider, as they are on the over mature side. There was a fair amount of drop in the McIntosh over the last week. Honeycrisp have been picked for the last time at almost all farms. Growers have started to pick Redcorts and are doing a light spot picking on Empire, Jonathan and Jonagold. These light pickings are mainly fruit that is on the outside of the tree that is well colored. I was surprised to see on Monday that Jonathan picked so easily, as did Golden Delicious and Red Delicious. This easy picking of Red Delicious concerns me a bit. Overall in looking at the data over the last three weeks, I would say that apples have matured more in the last seven days than they have previous to this time. This rapid maturity is primarily due to the daytime heating that we have experienced, along with sunny weather. I would encourage growers to watch Red and Golden Delicious closely, as this rapid rate of maturity is expected to continue into early next week, when temperatures are expected to decline.

Redcort were sampled for the fourth week of the season with a good number of samples being taken again this week. Almost half of the samples showed internal ethylene levels greater than 0.2 parts per million (ppm). Color remains very good, and unchanged from last week at 76%. The background color has improved a bit, and the pressure has dropped to 18.5 lbs. The starch index remains at 3.5, although with a broader spread of maturity. The brix tested at 13.2%. Redcort indeed are ready for harvest at most farms across the region. They may not be ready to be stripped at most farms.

Empire were sampled for the third week of the season, with a good number of samples being taken again this week. The fruit testing greater than 0.2 ppm of internal ethylene is 13% and the color is about the same at 73%. The background color remains unchanged at 3.6 and the pressure also remains unchanged at 20.5 lbs. The starch removal has moved a little from 4.2 last week to 4.3 this week, and the brix remains unchanged at 11.4%. The bottom line is that Empire seems like they are not moving along very quickly, in contrast with most other varieties. I would say that Empire can be spot picked at most farms, however don't strip trees at this time as a good amount of fruit on the interior of the tree and even some on the outside is not ready for harvest at this time.

Jonathan were sampled for the third week of the season, with a good number of samples being taken this week. Just over 50% of the apples showed internal ethylene levels greater than 0.2 ppm, up from 30% last week. The color on Jonathan is very good this year, averaging 88% at this time. Background has dropped from 4.0 last week to 3.0 this

week, and the pressure remains firm at 23.3 lbs. Starch removal index has risen from 4.0 last week to 4.5 this week, with a brix of 13.5%. Jonathan are ready for harvest for long term and CA storage at this time. Most of the Jonathan that I have seen over the last three weeks have been fairly small, with a good number of fruit on each limb. That causes the maturity to jump along a little bit more quickly than in more of a normal year. Jonathan also picked very easily, in fact for every apple that I picked another one fell from the limb. So, Jonathan are ready for long-term harvest at this time, and are nearly ready for shorter term storage. Many growers are spot picking Jonathan.

Jonagold were sampled for the third week of the season, internal ethylene levels have jumped from 8% last week to just over 50% having levels greater than 0.2 ppm. The color has improved dramatically from 38% last week to 67% this week. The background color has dropped a bit, and pressure remains firm at 20.2 lbs. The starch removal is 5.5, indicating that indeed Jonagold are ready for harvest at this time. The brix is 14.1%. Jonagold had good color and are still very firm and eat very well at this time.

Golden Delicious were sampled for the second week of the season, with more samples being taken this week than last week. Internal ethylene levels remain low on Golden Delicious (15%) and the background color still indicates that they are a bit green, at 4.3. The pressure is 20.5 lbs, and starch removal of 5.2. The brix is 13.2. Golden Delicious are not ready for harvest this week, but I would expect by next week they indeed will be ready for harvest on early maturing sites and strains.

Red Delicious were sampled for the second time of the season, with a much more extensive sample being taken this week than last week. Close to 40% of the apples tested showed internal ethylene levels greater than 0.2 ppm, color is very good on Red Delicious this year and background color has dropped from 2.5 last week to 1.3 this week. The pressure remains very firm at 20.6 lbs and a starch removal index of 2.5. The brix is 11.8%. Red Delicious are not ready for harvest at this time, and are definitely well behind Golden Delicious this year. I would say that Red's are at least 10 days away from harvest. One of my concerns is that there was a fair amount of drop when taking my samples this year on some strains of Red Delicious.

Crispen or Mutsu were tested for the first week of the season. They show very low levels of internal ethylene, at 5%. The color or blush is 8% with a background color of 3.5. The fruit remains very firm at 22.3 lbs, and tested at 3.3 on the starch index scale. The brix is a bit low for Crispen, at 12.5%. There is a fair amount of blister spot in Crispen this year. With this early look I would say that Crispen are not ready for harvest at this time, and may require a couple of weeks before they are.

Northern Spy's were sampled for the first week of the season to get an "early look" at their maturity. 100% of the fruit was showing internal ethylene levels greater than 0.2 ppm. This is not uncommon for Northern Spy. The color is ok at 57%, and background color 4.0. The fruit is firm at 20.7 lbs, and a starch index of 2.6. The brix tested at 12.5%. Northern Spy are not ready for harvest at this time, and I would expect that we are about two weeks away from harvest, however stay tuned for more details.

This report and project is made possible by the support of our sponsors which include Gerber Products Company, Michigan Apple Shippers Association, Valent USA, MSU Project GREEN, Michigan Apple Research Subcommittee, Michigan State Horticultural Society, Michigan Agricultural Experiment Station, and Michigan State University Extension. The growers cooperating by supplying apples on a weekly basis in Southeast Michigan include AlMar Orchards in Flushing, Erwin Orchards in South Lyon, Hy's Cider Mill in Romeo, Spicer Orchards in Hartland, Westview Orchards in Romeo, and several others.

National Pawpaw Workshop Recap

Kentucky State University held their second National Pawpaw Workshop on Saturday, September 6 in Frankfort hosted by Dr. Kirk Pomper, Kentucky State University. Sponsored by Kentucky State University, the Ohio Pawpaw Grower's Association, and the Pawpaw Foundation, nearly 100 people attended from at least 17 states, and one foreign country. Many of the attendees were either orchard growers, or those who intended to start orchards. Topics presented: growing, processing and marketing pawpaw fruit, orchard management, and cultivar selection. The attendees were able to sample named pawpaw cultivars and new crosses not yet introduced as well as express their preferences. Pawpaws were also featured in the meals, including pawpaw cookies, salad dressing, cream puffs, and ice cream. Attendees are already looking forward to the 2011 Workshop. For more information about pawpaws, go to www.pawpaw.kysu.edu and <http://www.ohiopawpaw.com/>.

Calendar - Newly added in ***Bold***

October 2, Ohio Farmland Preservation Summit, Columbus. The Clean Ohio Fund's renewal will be a focus of the gathering in addition to an exciting array of farmland protection topics. The summit key note speaker is David Kline, farmer, Amish minister, author and publisher of Farming magazine. The day will feature breakout sessions on a variety of topics ranging from landowner basics, statewide land-use policies, creative funding sources, and agriculture in the local economy. For additional information about the conference, go to <http://cffpi.osu.edu/summit08.htm> or contact Jody Fife at 614-728-6210 or farmlandpres@agri.ohio.gov.

Oct. 5-9, High Tunnel Tour of England. A 5-day bus tour of high tunnel culture in England for growers, Extension folks, or any other interested people. Cost is \$800 per person (\$700 double), which includes most meals and all lodging (flight to London not included). We will tour cherries, raspberries, and strawberries and possibly other crops under tunnels. Deadline for registration is August 22. Full details and registration forms are posted at: <http://www.hrt.msu.edu/TUNNELTOUR/>. Contact Eric Hanson at MSU (517-355-5191 x1386, hansone@msu.edu) with any questions.

Nov. 6-8, Southeast Strawberry Expo, Hilton Charlotte University Place, Charlotte, NC. Includes Strawberry Plasticulture Workshop for New Growers, farm tour, educational sessions, and trade show. For more information, email info@ncstrawberry.com

Nov. 13-14, OSU 45th Annual Income Tax School, Fremont. For more information
<http://aede.osu.edu/programs/TaxSchool>.

Nov. 17-18 OSU 45th Annual Income Tax School, Columbus. For more information
<http://aede.osu.edu/programs/TaxSchool>.

Nov. 18-19, OSU 45th Annual Income Tax School, Kent. For more information
<http://aede.osu.edu/programs/TaxSchool>.

Nov. 20, OSU 45th Annual Income Tax School, Ashtabula. For more information visit
<http://aede.osu.edu/programs/TaxSchool>.

Nov. 24-25, OSU 45th Annual Income Tax School, Dayton. For more information visit
<http://aede.osu.edu/programs/TaxSchool>.

Dec. 2-3, OSU 45th Annual Income Tax School, Ashland. For more information visit
<http://aede.osu.edu/programs/TaxSchool>.

Dec. 4-5, OSU 45th Annual Income Tax School, Lima. For more information visit
<http://aede.osu.edu/programs/TaxSchool>.

Dec 8-10, North American Raspberry & Blackberry Conference. DeVos Place Convention Center, Grand Rapids, MI, as part of the Great Lakes Expo. For more information, email info@raspberryblackberry.com.

Dec. 9-10, OSU 45th Annual Income Tax School, Chillicothe. For more information
<http://aede.osu.edu/programs/TaxSchool>.

Dec. 9-11, Great Lakes Fruit, Vegetable and Farm Market Expo, DeVos Place Convention Center, Grand Rapids, <http://www.glexpo.com/>.

Dec. 11-12, OSU 45th Annual Income Tax School, Zanesville. For more information
<http://aede.osu.edu/programs/TaxSchool>.

Dec. 11-12, Fruit Irrigation Systems Workshop. Grand Rapids MI. Registration for the workshop will be limited to the first 100 registrants. Register at www.glexpo.com. Cost of the two-day workshop is \$100 (\$110 for those who do not also register for the EXPO). If space is available (limited to first 100), registration will be offered for \$125 during the EXPO and at the door when the workshop starts on Thursday. For more information on the workshop, contact Dr. Ron Perry at 517-355-5191, ext. 1433.

2009

Jan. 5-6, Kentucky Fruit & Vegetable Conference & Trade Show, Embassy Suites Hotel, Lexington, KY. For more information contact John Strang at phone 859-257-5685 or email: jstrang@uky.edu

January 12-14, OPGMA Congress, The Nia Center at the Kalahari Resort Sandusky, Ohio

Jan 19-21, Indiana Horticultural Congress, Adam's Mark Hotel, Indianapolis.

Jan. 21, 2009 Pesticide Applicator Workshop, Dayton Convention Center. Ohio State University Extension and the Department of Agriculture will offer several workshops throughout the state. The workshops are designed to help applicators receive the state required five hours of training in one day, said Joanne Kick-Raack, Ohio State University Extension's state program director of the Pesticide Education Program. Registration information for the recertification workshops will be available on the Pesticide Education Program Web site (<http://pested.osu.edu>) beginning Oct. 1. Applicators can also receive more information by calling the program at (614) 292-4070.

Feb. 10, 2009 Pesticide Applicator Workshop, Nia Conference Center, Kalahari Resort, Sandusky. Ohio State University Extension and the Department of Agriculture will offer several workshops throughout the state. The workshops are designed to help applicators receive the state required five hours of training in one day, said Joanne Kick-Raack, Ohio State University Extension's state program director of the Pesticide Education Program. Registration information for the recertification workshops will be available on the Pesticide Education Program Web site (<http://pested.osu.edu>) beginning Oct. 1. Applicators can also receive more information by calling the program at (614) 292-4070.

Feb. 16-17, Ohio Grape & Wine Conference. Shisler Conference Center, Wooster. Marketing will focus on customer service with nationally renowned speakers. Featured speakers include Dr. Tony Wolf, Professor of Viticulture at Virginia Tech University, and Mark Chien, winegrape Extension Educator from Penn State University. Featured speakers in enology will include Dr. Christian Butzke, Professor of Enology at Purdue University and Ellie Butz, Enologist, Vintage Winery Consultants

Feb. 25, 2009 Pesticide Applicator Workshop, Columbus Convention Center. Ohio State University Extension and the Department of Agriculture will offer several workshops throughout the state. The workshops are designed to help applicators receive the state required five hours of training in one day, said Joanne Kick-Raack, Ohio State University Extension's state program director of the Pesticide Education Program. Registration information for the recertification workshops will be available on the Pesticide Education Program Web site (<http://pested.osu.edu>) beginning Oct. 1. Applicators can also receive more information by calling the program at (614) 292-4070.

March 11, 2009 Pesticide Applicator Workshop, John S. Knight Center, Akron. Ohio State University Extension and the Department of Agriculture will offer several workshops throughout the state. The workshops are designed to help applicators receive the state required five hours of training in one day, said Joanne Kick-Raack, Ohio State University Extension's state program director of the Pesticide Education Program. Registration information for the recertification workshops will be available on the

Pesticide Education Program Web site (<http://pested.osu.edu>) beginning Oct. 1.
Applicators can also receive more information by calling the program at (614) 292-4070.

NOTE: Disclaimer - This publication may contain pesticide recommendations that are subject to change at any time. These recommendations are provided only as a guide. It is always the pesticide applicator's responsibility, by law, to read and follow all current label directions for the specific pesticide being used. Due to constantly changing labels and product registrations, some of the recommendations given in this writing may no longer be legal by the time you read them. If any information in these recommendations disagrees with the label, the recommendation must be disregarded. No endorsement is intended for products mentioned, nor is criticism meant for products not mentioned. The author and Ohio State University Extension assume no liability resulting from the use of these recommendations.

Ohio Poison Control Number

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