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Comments from the Coordinator

Those folks dealing with corn should read our feature article on "Balance" herbicide. Balance was recently registered and was eagerly anticipated by growers in the Midwest. The issue is Balance is not registered in Minnesota, Wisconsin or **Michigan**. Balance will, however, be available in Indiana and Ohio in 1999. Brian Rowe of MDA discusses why the state-specific registration occurred, and the possibility of illegal use in Michigan in 1999.

And for extension readers...check out the attached nomination for for the **Outstanding Pesticide Applicator Training Award**, which we give each year to recognize innovative and effective pesticide education training programs. All members of the MI Ag Agents Extension Association are eligible.

What you have to do: fill out the form and write a blurb explaining your innovative program

What you could win: A free, **all expense-paid trip** with PAT Program staff to the Northcentral Certification and Training Conference in lovely Minneapolis in August 2000.

Talk to our previous winner, Sally Stuby in Kalamazoo County, for her perspective on last year's meeting in Rapid City. Apply Today!

Christina DiFonzo

Pesticide Education Coordinator/Field Crops Entomologist

Balance™ Herbicide Not Registered For Use In Michigan

Brian Rowe, Pesticide Section Manager, Michigan Department of Agriculture

On September 15, 1998, the U.S. Environmental Protection Agency (EPA) conditionally registered a new corn herbicide produced by Rhone-Poulenc. The new product is registered under the trade name of "Balance™" and contains the active ingredient isoxaflutole.

The conditional registration restricts the use of the product to the states of Arkansas, Indiana, Illinois, Iowa, Kansas, Kentucky, Missouri, Montana, Nebraska, North Dakota, South Dakota, Tennessee, Ohio, Oklahoma, Texas (north of I-20), and Wyoming. The conditional registration will expire on November 1, 2001. The product is **not registered for use in Michigan**.

During the registration process, EPA provided information to the states of Michigan, Wisconsin and Minnesota, indicating that they would not register the product in these states for the following reasons:

- Potential phytotoxic effects on treated crop sites and non-target plant species (especially vegetable and ornamental crops).
- Suspect human carcinogen (B2) and reproductive effect data.
- High solubility with surface and groundwater runoff and leaching concerns.
- Aquatic invertebrate/environmental impacts.

EPA specifically chose the states of Michigan, Minnesota and Wisconsin based on the minor crop diversity with the potential for non-target impacts due to runoff, drift and irrigation (contaminated water use). EPA's phytotoxicity concerns stem from modeling, which indicates that surface runoff will occur at levels between 1.7-2.0 parts per billion (ppb), leaching will occur at 0.23 ppb but phytotoxicity may occur at levels of 22-93 parts per trillion (ppt). EPA's model suggests damage at the lower level of 22 ppt.

The conditional registration creates a time/state restriction, during which time legal use in states with more traditional crop monocultures would provide additional data on phytotoxicity

and environmental impacts. The limitation prevents Michigan corn producers from using the product until EPA reviews the new data. During this time, Michigan producers will need to rely on currently registered corn herbicides. The limitation will protect Michigan's crop diversity from adverse phytotoxicity impacts and Michigan's water resources from potential leaching or runoff.

There are rumors that growers may consider traveling outside the state to purchase the product for use in Michigan. Since the conditional registration prohibits use in Michigan, it would be a violation of both state and federal law to use Balance™ in Michigan. While use violations of this nature are significant, growers considering this action should be aware that they place the conditional registration of the product at risk on a state and national level. Rhone-Poulenc is actively planning additional research and data collection to pursue registration in additional states, including Michigan. In addition, Rhone-Poulenc has added several label restrictions which are aimed at mitigating the environmental risks, including:

- Restrictions for vulnerable soils and shallow aquifers.
- Prohibiting aerial and chemigation application.
- Wellhead setbacks for mixing and loading operations, unless these activities occur on an impervious pad.
- Low application rates (1-3 oz./acre).

The Michigan Department of Agriculture (MDA) is aware of the unique weed control properties this product offers to Michigan corn producers. The product offers control of the most troublesome and economically important weeds in a pre-emerge application. MDA is encouraging Michigan corn producers to comply with the conditional registration restrictions by not using Balance™, with the hope that research and legal use in other states will support EPA registration of this product in Michigan.





Chemical Update

The following information provides registration status of particular pesticides and should not be considered as pesticide recommendations by MSU Extension.



Products Under Development

Fungicides

- Flint (trifloxystrobin; Novartis)—this new systemic broad spectrum fungicide for powdery mildew control in grapes is also being developed for powdery mildew, scab and leaf and fruit spot control on pome fruits and cucurbits.

Tolerances

Insecticides

- Baythroid (cyfluthrin; Bayer)—EPA petitioned to establish tolerances on soybean, soybean forage, corn forage, and corn fodder).
- Confirm (tebufenozide; Rohm & Haas)—residue tolerances extended on leafy and brassica vegetables, expiring 8-31-2000.
- Dibrom (Amvac)—due to comments regarding import limitations, the EPA has agreed not to revoke current residue tolerances on cucumbers, legumes, forage, lettuce, pumpkins, squash, tomatoes, and turnips.
- Methiocarb (Gowan)—although comments were received from Gowan, the EPA will revoke the tolerances on corn.
- Trichlorfen (Bayer)—the EPA received comments from Bayer and has agreed not to revoke residue tolerances on cattle.

Herbicides

- 2,4-D—proposed tolerances of 0.02 ppm on soybeans.
- Achieve (tralkoxydim; Zeneca)—time-limited tolerances established on barley and wheat grain (0.02 ppm), wheat forage (0.05 ppm), and barley and wheat straw (0.05 ppm). Tolerances expire Feb, 2003.
- Atrazine (Drexel)—the EPA received comments and will not revoke tolerances on pastures and rangeland.
- Banvel (dicamba; BASF)—EPA has been petitioned to revise residue tolerances on barley and wheat grain, barley and wheat straw, asparagus, and soybean. Also, to set new tolerances on barley, grass, oat and wheat forage and hay.
- Ramrod (propachlor; Monsanto)—comments were received from the company that the proposed revocation of tolerances on corn was in error. The EPA has agreed, but will revoke

tolerances on sugarbeets, sweet corn, peas, and pumpkins.

- Simazine—various sources sent comments not to revoke tolerances on artichokes and asparagus. EPA has now set a revocation date of 12-21-2000 on these crops.

Fungicides

- Etridiazole—the EPA has received comments and has agreed not to revoke tolerances on strawberries.
- Maneb (Elf Atochem)—EPA has agreed not to revoke residue tolerances on apricots, beans, carrots, celery, nectarines, and peaches due to comments from the company that they are needed for import purposes.

New Registrations/Label Additions

Insecticides

- Agrimek (abamectin; Novartis)—registration pending on leafy vegetable.
- Alert (chlorfenapyr; AmCy)—registration pending on celery, cole crops, lettuce, potato, spinach and tomatoes. (Note: IR-4 program is working on onions and strawberries).
- Applaud (buprofezin; AgrEvo)—registration pending on cucurbits, grapes, lettuce, and tomato.
- BTI (*B.t. israelensis* strain EG2215; Ecogen)—registration approved for this active ingredient for use in mosquito control products.
- Capture (bifenthrin; FMC)—pending registration on beans, canola, celery, cole crops, cucurbits, lettuce, and peas.
- CGA-215944 (pymetrozine; Novartis)—pending registration (1999?) to control sucking insects on ornamentals.
- Confirm (tebufenozide; Rohm & Haas)—pending registration on cole crops, pome fruits, and fruiting/leafy vegetables. IR-4 is supporting work on blueberries, canola, mint, and turnips.
- Floramite 52.6 WP (bifenazate; Uniroyal)—pending registration for use on ornamentals to control mites.



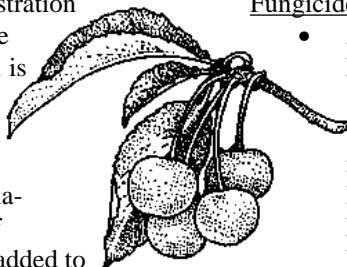
- Icon (buprofezin; AgrEvo)—pending registration for use on ornamentals.
- PFR-97 (*Paecilomyces fumosoroseus*; Olympic Hort)—biological insecticide currently registered to control whiteflies on ornamentals in Florida, but a national label is in the works.
- Pylon (chlorfenpyr; AmCy/Olympic)—pending registration for use on ornamentals to control mites and thrips.

Herbicides

- Action (fluthiacet-methyl; Novartis)—registration pending on corn and soybean.
- Affinity/Aim (carfentrazone-ethyl; FMC)—registration pending on potato and sorghum.
- Aim (carfentrazone-ethyl; FMC)—registered for use on cereal crops and soybean.
- Celebrity (nicosulfuron/dicamba; BASF)—a new formulation for use as a postemergence treatment on field corn and popcorn to control broadleaf weeds and grasses.
- Dual (metolachlor; Novartis)—control of common waterhemp and tall waterhemp added to the label.
- Epic (flufenacet/isoxaflutole; Bayer/Rhone-Poulenc)—the companies will co-market this combination herbicide as a pre-emergence treatment on corn; expected to be available for the 1999 season.
- Liberty ATZ (glufosinate-ammonium; AgrEvo)—new combination herbicide recently approved for use on Liberty Link and other corn varieties.
- Strong Arm (diclosulam; Dow Agro)—expected to be introduced in the U.S. in the year 2000 for use on soybeans to control broadleaf weeds.
- Permit (halosulfuron; Monsanto)—pending registration on sweetcorn.
- Pursuit (imazethapyr; AmCy)—label addition, application by air on alfalfa
- Starane EC (fluroxypyr; Dow Agro)—EPA approved registration of this pesticide to control broadleaf weeds and volunteer potato in small grains.

Fungicides

- Acrobat MZ (dimethomorph/mancozeb; AmCy)—EPA approved registration of this pesticide to control late blight in potato. Registration is pending for Acrobat on cucurbits, grapes, lettuce, and tomato.
- BSP Lime Sulfur (Ag Formulators)—post-harvest control of powdery mildew on cherries added to the label.



- Cygnus (kresoxim-methyl; BASF)—approved for use in greenhouses to control powdery mildew on ornamental plants.
- Heritage (azoxystrobin; Zeneca)—approved for use on lawns and sports turf.
- Indar (fenbuconazole; Rohm & Haas)—the IR-4 Program is supporting a registration for use on blueberry and cranberry.
- Maxim 4FS (fludioxonil; Novartis)—the EPA registered this product as a seed treatment on all crops grown in the U.S. This is the first time the EPA has given a blanket registration.
- Tops MZ (thiophanate-methyl/ mancozeb; Gustafson)—potato seed treatment—added late blight suppression to their label.

Label Deletions/Changes

Insecticides

- Lindane—all pet-care and wood treatment uses will be removed from labels as of June 1999.
- Marlate (methoxychlor; Kincaid)—use as a livestock dip will be removed from the label as of June 1999.

Herbicides

- Balance (isoxaflutole; Rhone-Poulenc)—Registration for this product is geographically restricted for a 3-year period. It can only be used in Arkansas, Illinois, Indiana, Iowa, Kansas, Kentucky, Missouri, Montana, Nebraska, North Dakota, Ohio, Oklahoma, South Dakota, Tennessee, Texas, and Wyoming.
- Turbo (metolachlor/metribuzin; Bayer)—Novartis acquired the exclusive marketing rights to the soybean herbicide. It will no longer be marketed in the U.S. by Bayer.

Fungicides

- Chipco-26019 (iprodione; Rhone-Poulenc)—all residential uses will be deleted from the label.
- Ronilan (vinclozolin; BASF)—strawberries and stone fruits were deleted from the label on 9/4/98. Any labeled product, not released for shipment after that date, will need to be restickered.

Section 24c Actions

Fungicides

- Apron Maxx (fludioxonil/mefenoxam; Novartis)—received a 24(c) label in Tennessee to use as a seed treatment on soybeans to control pythium, phytophthora, fusarium and rhizoctonia diseases. Pending 24(c) labels are in Ohio, Indiana, Illinois, Iowa, Minnesota, Nebraska, Mississippi, Arkansas, Louisiana, Kansas, Missouri, Wisconsin, and Michigan.



Miscellaneous

- **AMVAC Chemical** has a long-term agreement with the Indian company, Fortune Biotech, to develop and market azadirachtin-based insecticides in the U.S.
 - **ForBio**, an Australian company, has permission to use Monsanto technology to develop herbicide resistant forest trees. Scotts is working with Monsanto to develop transgenic turf grass and ornamentals.
 - **Hoechst and Rhone-Poulenc** have agreed to merge their drug and agrochemical businesses.
- The new company will be called Aventis.
- **Monsanto's** seed businesses include the following: Asgrow, Agroceres, Cargill, Corn States, DeKalb, Hartz, Holden's, Hybritech, Monsoy, PBI, and Stoneville.
 - **Novartis** announced a \$25 million, 5-year agreement with the University of California, Berkeley, to negotiate licenses in the area of genomics for agricultural products or technology the University may discover.

(Source: *Ag. Chem. News*: 12/15/98 & 1/15/99)



News Extras



1999 Michigan Clean Sweep Contacts

The proper disposal of unused and unwanted pesticides is the goal of the Clean Sweep program in Michigan. The Michigan Groundwater Stewardship Program in cooperation with county and local units of government has established 12 Clean Sweep sites located throughout the state.

Individual Michigan residents, i.e., homeowner, farm, greenhouse, nursery, golf course or other end users of pesticides can use this service for free, but not dealers or persons who apply pesticides for hire. They may dispose of unused and unwanted pesticides by taking them to one of these Clean Sweep sites where they will be collected, packaged for shipping, and disposed of properly. Program costs are covered by the Michigan Groundwater Stewardship Program, a grant from the U.S. Environmental Protection Agency, and services provided by the local cooperators.

Pesticide dealers and individuals that sell and/or apply pesticides for hire may also, at the Clean Sweep site manager's discretion, dispose of unused or unwanted pesticides at cost. This cost is typically less than 20% of the normal cost of pesticide waste disposal because of economies of scale and competitive bidding of waste disposal costs. Persons interested in participating in the Clean Sweep program may contact the site coordinator at the location nearest to them:

John Gruchot,
Berrien County Department of Planning, Public Works & Land Description
811 Port Street, Room 105
St. Joseph MI 49085
(616) 983-7111, Ext. 8617
Fax (616) 982-8611

Dave DeVet
Delta Solid Waste Management Authority
5701 19th Avenue North
Escanaba, MI 49829
(906) 786-9056
Fax (906) 986-0825

Randall Smith
Grand Traverse County
400 Boardman Avenue
Traverse City, MI 49684
(616) 922-4576
Fax (616) 922-4427

Michelle Stemier
Ionia County Resource Recovery Project
100 Library
Ionia, MI 48846
(616) 527-5357
Fax (616) 527-5312

Tips for safe transport of agricultural chemicals

- ❖ Keep pesticides in their original and labeled containers.
- ❖ Do not mix contents of unknown/unlabeled containers.
- ❖ Make sure that containers are not leaking prior to bringing them to a collection facility.
 - Inspect steel containers for rust, pinholes, or deficient seams.
 - Over pack any leaking containers in a clear plastic bag or leak proof container.
- ❖ Do not transport containers with open tops.
- ❖ Place chemicals in vehicle away from passengers.
- ❖ Secure all containers so they cannot slide, tip, or spill contents.



Dawn George
Isabella County Recycling Program
4208 East River Road
Mt. Pleasant, MI 48858
(517) 773-9631
Fax (517) 773-7431

Tom Dewhirst
Kalamazoo County Human Services Department
Household Hazardous Waste Center
1301 Lamont Avenue
Kalamazoo, MI 49001
(616) 383-8741
Fax (616) 383-8747

Sara Lesky
Lapeer County Health Department
1575 Suncrest
Lapeer, MI 48446
(810) 667-0452
Fax (810) 667-0369

Elwin Coll
Macomb County Health Department
43525 Elizabeth
Mt. Clemens, MI 48043
(810) 469-5253
Fax (810) 469-5885

Darwin J. Baas
County of Ottawa Health Department
Environmental Health Division
12251 James Street, Suite 200
Holland, MI 49424-9675
(616) 393-5645
Fax (616) 393-5643

Thomas G. Waffan
SOCRRA
3910 West Webster Road
Royal Oak, MI 48073-6764
(248) 288-5150
Fax (248) 435-0310



Ned Birkey
MSU Extension
Monroe County Drain Commission
963 South Raisinville Road
Monroe, MI 48161
(734) 243-7113
Fax (734) 243-7000

Rick Aho
Marquette County Solid Waste
600 County Road NP
Marquette, MI 49855
(906) 249-4108
Fax (906) 249-9377

UN Funds Methyl Bromide Reduction

Although the U.S. applies the greatest amount of the world's methyl bromide (32%) followed by Italy (13%) and Japan (13%), methyl bromide use in developing countries is increasing. Use in South America and Africa, for example has doubled since 1994, and China is increasing its capacity to manufacture the chemical. Developed nations are contributing money to a United Nations fund—\$50 million so far—to help developing countries reduce methyl bromide use. Alternatives include compost, steam, and resistant varieties. Back in the U.S., growers got a reprieve from Congress in October 1998 that delays the methyl bromide ban from 2001 to 2005. No effective chemical replacement is yet available for methyl bromide in the U.S. USDA and other researchers are looking at steam, composting, solarization, and disease resistance as well as pesticides in their fight to meet the 2005 deadline (*Pest. & Tox. Chem. News*, 12/10/98).



Superfund Nixed for Methyl Parathion Cleanup

Superfund money will no longer be used to remediate methyl parathion misuse sites. Since 1995, \$90 million in Superfund dollars has gone to cleaning up methyl parathion contaminated homes and other buildings in Louisiana, Michigan, Mississippi, and Ohio, drawing down the fund to low levels. Congress has also questioned the use of Superfund money for methyl parathion misuse rather than waste site remediation. EPA hopes state departments of ag will beef up outreach, education, and enforcement to prevent further methyl parathion incidents. Let's hope so, because if and when an incident occurs in the future, states are on their own to fund the clean-up (*Pest. & Tox. Chem. News*, 12/10/98).



EPA Plans Fish Study


Will you be having PBTs with your perch tonight? By 2002, you'll have better idea if EPA follows through with a study planned for the next few years. The \$7.5 million "National Study of Chemical Residues in Lake Fish Tissue" will begin in the summer of 1999. EPA plans to sample fish from 1200 lakes and reservoirs and test them for a variety of persistent bioaccumulative toxics (PBTs), mainly certain pesticides, dioxins, mercury, and heavy metals. Sample sites will be picked randomly, and will include the Great Lakes. Target fish tested will include both predators and bottom feeders, and such species as bass, crappie, carp, catfish, perch, pike, trout, and



walleye. EPA says the data it collects will not be used to set fish advisories (*Pest. & Tox. Chem. News*, 11/9/98).

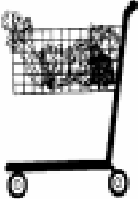
Merger Update

The latest from the world of big mergers—Hoechst AC of Germany and Rhone-Poulenc of France. The companies will merge their pharmaceutical and ag chem businesses to form the world's largest life sciences company, "Aventis." On a crop protection side, this translates into a merger of AgrEvo and Rhone Poulenc Agro. Aventis Crop Protection's market share worldwide is projected to be 15% for insecticides and fungicides, and 13% for herbicides (*Pest. & Tox. Chem. News*, 12/10/98).



Food Quality Protection Act Information

For more information, contact a regional MDA office or Dr. Christina DiFonzo,
MSU Pesticide Education Program (517) 353-5328.



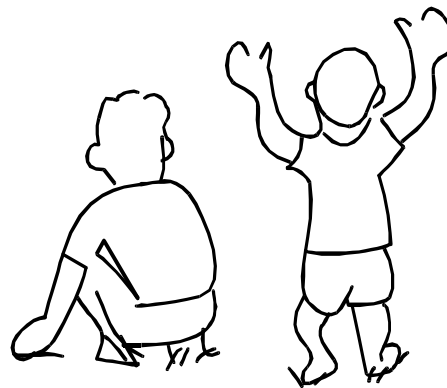
Brochure is Ready

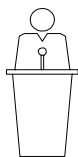
Coming to a store near you...the long awaited, and controversial, grocery store brochure is apparently ready for distribution in January 1999. The brochure is mandated under FQPA to explain pesticides risks and benefits to consumers. A previous version was heavily criticized by grocery and industry groups for promoting organic food. The final version (I haven't seen it yet and I can't find it on the EPA web site) is already being criticized by environmental and consumer groups as being watered down. EPA is printing and distributing 4 million copies of "Pesticides and Food: What You and Your Family Need to Know." A Spanish version will be released in February.

chlorpyrifos, sent a letter to USDA and EPA claiming that EPA made its decision without reviewing data from 20 important studies provided by the company. According to DowAgro, these studies show EPA could reduce or eliminate the 10x safety factor for chlorpyrifos. By December, the Environmental Working Group (EWG) stepped into the fray by sending its own letter to EPA administrator Carol Browner. This letter urges EPA to retain the 10x safety factor, stating "If the agency (EPA) will not provide additional and much needed protection to children from chlorpyrifos, one can reasonably ask under what circumstances will the agency act to protect infants and children from pesticides?"

Chlorpyrifos Safety Factor Under Debate

Under FQPA, additional safety factors can be added to a pesticide tolerance to protect children. A safety factor may be reduced if a registrant can provide additional supporting health and safety data. Chlorpyrifos, a widely used active ingredient sold as Lorsban and Dursban, is one of the pesticides that received a full 10x safety factor last year. On August 6, 1998, an EPA scientific panel recommended that EPA retain the full 10x safety factor. On August 24, Dow AgroSciences, the maker of





Pesticide Applicator Recertification Seminars

This partial listing of recertification seminars was provided by MDA. Certified applicators and registered technicians may earn recertification credits by attending these programs. For additional information, call the MDA Lansing office at (517) 373-1087.

NOTE: Renewal of pesticide applicator certification credentials can be done by taking the appropriate exam(s) or by obtaining the necessary number of recertification credits by attending approved seminars.



| Date | Seminar | Location | Credit | Category | Phone # |
|---------|--------------------------------------|---------------------|--------|-----------------------|---------------|
| 1/26 | 1999 Weed Management Meeting | Chesaning, MI | 2 | Com Core,1A,1B | (517)799-2233 |
| 1/26 | Grower Meeting | Merrill, MI | 2 | Priv,1A,1B | (517)695-2269 |
| 1/27 | Tuscola County Grower Meeting | Caro, MI | 3 | Priv, Com Core,1A | (517)672-3870 |
| 1/27 | SE Michigan Agronomy Day | Milan, MI | 2 | Priv,1A | (734)971-0079 |
| 1/29 | Core Manual Review | Kalamazoo, MI | 2 | ANY | (616)673-0370 |
| 1/29 | Weed Control & Herbicide Update | Standish, MI | 4 | Priv,Com Core,1A | (517)846-4111 |
| 2/2 | Core Manual Review | Allendale, MI | 2 | ANY | (616)673-0370 |
| 2/2 | Grower Service Meeting | Merrill, MI | 2 | Priv,1A,1B | (517)643-7293 |
| 2/3 | Pesticide Applicator Cert. Prog. | Mt. Clemens, MI | 3 | ANY | (810)469-5180 |
| 2/9 | Grower Meeting | Merrill, MI | 2 | Priv,1A,1B | (517)695-2269 |
| 2/9 | Grower Meeting | Merrill, MI | 2 | Priv,1A,1B | (517)695-2269 |
| 2/15 | Branch Co. Farmers Day-Grndwtr | Coldwater, MI | 1 | ANY | (616)781-0785 |
| 2/15 | Branch Co. Farmers Day-Insect | Coldwater, MI | 1 | Priv, 1A | (616)781-0785 |
| 2/15 | Branch Co. Farmers-Sybean Nematode | Coldwater, MI | 1 | Priv, 1A | (616)781-0785 |
| 2/15 | Branch Co. Farmers-Precision Agr. | Coldwater, MI | 1 | ANY | (616)781-0785 |
| 2/16 | Grower Meeting | Merrill, MI | 2 | Priv, Com Core | (517)695-2269 |
| 2/17 | Core Manual Review | Hamilton, MI | 2 | ANY | (616)673-0370 |
| 2/17 | Pesticide Training Program | Hastings, MI | 2 | ANY | (616)948-4862 |
| 2/17 | Disease and Insect Mgmt Wrkshp | Flint, MI | 4 | 3A,3B | (242)858-0887 |
| 2/18 | RUP Core Training Meeting | Paw Paw, MI | 2 | ANY | (616)657-7745 |
| 2/22 | Review 98 On-Farm Rsrch/Exam Prep | Ann Arbor, MI | 1 | Priv,1A | (734)971-0079 |
| 2/20-22 | SAF Insect & Disease Mgmt on Orn. | Ft. Lauderdale, FL | 5 | Priv | (703)836-8700 |
| 2/22-26 | Good Manuf Pract for Food Industry | Danville, IL | 14 | 7A,7C,8 | (217)442-1800 |
| 3/1 | Pesticide Appl. Review Session | Monroe, MI | 3 | ANY | (734)243-7113 |
| 3/3 | Pesticide Appl. Cert. Program | Mt. Clemens, MI | 3 | ANY | (810)469-5180 |
| 3/4 | Selectn of Hardy Perfrmnce Plant Mat | Flint, MI | 2 | 3A,3B | (242)858-0887 |
| 3/9 | Core Manual Review | Allendale, MI | 2 | ANY | (616)673-0370 |
| 3/9 | Review 98 On-Farm Rsrch/Exam Prep | Adrian, MI | 1 | Priv,1A | (734)971-0079 |
| 3/16 | Pesticide Applicator Training | Flint, MI | 2 | ANY | (242)858-0887 |
| 3/16 | Farm Safety & Training Mtg. | Mt. Pleasant, MI | 2 | 1A,1B,1C,2,3A,3B, Com | |
| 3/16 | Farm Safety & Training Mtg. | Thompsonville, MI | 2 | 1A,1B,1C,2,3A,3B, Com | |
| 3/22-26 | Good Manuf Pract for Food Industry | Danville, IL | 14 | 7A,7C,8 | (217)442-1800 |
| 3/23 | RUP Core Training Meeting | Paw Paw, MI | 2 | ANY | (616)657-7745 |
| 3/23 | Pesticide Applicator Training | Flint, MI | 2 | ANY | (242)858-0887 |
| 3/23 | Pesticide Applicator Training-Turf | Flint, MI | 2 | 3A | (242)858-0887 |
| 3/30 | Pesticide Applicator Training | Flint, MI | 2 | ANY | (242)858-0887 |
| 3/30 | Pesticide Applicator Training-Orn. | Flint, MI | 2 | 3B | (242)858-0887 |
| 4/5 | Pesticide Applicator Review Session | Monroe, MI | 3 | Com Core,1A,1B,1C,2 | (734)243-7113 |
| 4/8 | Farm Safety & Training Mtg | St. Johns, MI | 2 | 1A,1B,1C,2,3A,3B,Com | |
| 4/29 | Degesch America Recert. Program | Charlottesville, VA | 4 | Com Core,Priv, ST | (540)234-9281 |
| 4/26-30 | Good Manuf. Pract. for Food Industry | Danville, IL | 14 | 7A,7C,8 | (217)442-1800 |
| 11/12 | OPCA Training School | Cincinnati, OH | 4 | Com Core,7A,7B | (614)789-9020 |
| 11/13 | OPCA Training School | Cleveland, OH | 4 | Com Core,7A,7B | (614)789-9020 |

Instructions for recertification training seminar attendance and training seminar dates are posted at the MDA website: <http://www.mda.state.mi.us/industry/semsked.html>

