Summer 2000
Vol. 31 No. 2

Minor Crop Pest Management, IR-4 - A National Agricultural Program to Clear Pest Control Agents for Minor Uses

IR-4 Newsletter

IR-4 Project
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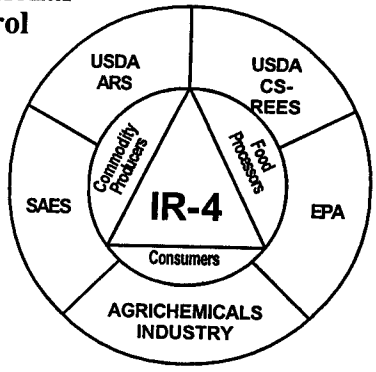

AWARD WINNING NEWSLETTER

MILLENNIUM ISSUES

*For April -June 2000 (2nd Quarter)

Center Insert: PCR Form and New Products Table

IR-4 Highlights (Partner Outreach)

Editor's Note: IR-4 Highlights by the Executive Director is an outreach feature of the Newsletter, focused primarily on articles in this issue.

Writing a Newsletter article every three months can be a bit of a chore. However, after just returning from two days of excellent interactions with our EPA partners, the assignment is easy because there are so many positive things to write about.

We are well into our second year of EPA/IR-4 Technical Working Group Meetings that started last year with four quarterly meetings. We held our third 2000 meeting on June 6th at the EPA offices in Arlington, Virginia. These meetings have become events that the IR-4 staff look forward to because we cover a number of important agenda items and discuss ways both parties can more efficiently obtain minor crop registrations. The recent meeting was the first attended by our Regional Field Coordinators (RFC) who made important contributions by highlighting key minor crop needs in their states. Charlie Meister, Southern RFC, highlighted the regulatory issues surrounding watercress and proposed its classification in Crop Group No. 4/leafy vegetables on a case by case basis due to the way it is

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IR-4 Highlights (Partner Outreach)

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being grown commercially as described by Dr. Gopal Saxena of B&W Quality Growers, Inc., and an invited guest presenter. Ron Hampton, Western RFC, described the growing interest in California for Stevia, a herbaceous perennial shrub that produces a natural glycoside sweetener, and Promor A, a forage crop that is being evaluated as a high protein animal feed. Both crops are being proposed as minor crop additions to current or proposed crop groupings. Ken Samoil's and Sandy Perry's article on page 18 goes into greater detail about the meeting agenda items and discussions. All of our EPA/IR-4 Technical Working Group Meetings run very smoothly due to the excellent prior planning by George Markle, IR-4 Associate Director, and Hoyt Jamerson, EPA Minor Use Officer, who also does a fine job in serving as the meeting facilitator as well as a Newsletter contributor.

Our Technical Working Group Meeting was followed by the "Beyond the Beltway" IR-4 Minor Crop Tour organized by Ken Samoil. Ken, George, Johannes Corley and Van Starner did an excellent job in insuring we had a fine exposure to various components in the IR-4 program from ornamentals research by Jim Locke to residue analysis of minor crop samples by Emy Pfeil at our ARS partners' facilities managed by Paul Schwartz at the newly named Henry A. Wallace Beltsville Facilities. The field stops to view spinach and peas being grown in Maryland as well as the Saulsbury Brothers packing plant tour gave everyone a better feeling about the importance of minor crop agriculture in that region. It was very encouraging to hear the Starkey Brothers farm managers praise the registrations obtained by IR-4 for SpinTor (spinosad), and Quadris (azoxystrobin) and Dual (metolachlor) under Section 18 which allowed them to grow a fine spinach crop which was insect, disease and weed free. The tour through the Phillips Mushroom Farms was an education for all of us who were unfamiliar with growing this crop which has a minor crop value at the grower level approaching $900 million. Thanks to the IR-4 staff who made this tour possible and to the EPA and USDA-ARS staff who participated and made the day a very worthwhile educational experience.

It has been extremely valuable to have Willis Wheeler in his role as IR-4 Liaison to the EPA/OPP for our program. Willis has done an excellent job of networking within the EPA to keep abreast of key regulatory issues facing minor crops and providing information and contacts to help address the issues. He works closely with Pat Cimino, EPA Minor Use Team Leader, who has been a tremendous supporter of IR-4 programs and an active participant at many of our meetings. Willis's past close working relationship within the USDA, especially CSREES and ARS, has been invaluable in helping me and the IR-4 program keep CSREES and ARS management informed about the status of our various initiations. Willis organized meetings on June 5th with Ed Knipling, Deputy ARS Administration, and Chuck Laughlin, CSREES Administrator, which were attended by Willis, Neal Thompson, Administrative Adviser Chair, Nancy Ragsdale (ARS meeting) and Dennis Kopp and Jim Parochetti (CSREES meeting) where I was able to provide these key administrators an IR-4 update and we all were able to dialogue and answer questions. It is very heartening for me to see that Drs. Knipling and Laughlin are willing to take time from their busy schedules to keep updated on IR-4. We also appreciate Nancy's active participation in this and other IR-4 meetings in her new role as ARS National Program Staff member responsible for IR-4 programs and Dennis' active involvement, along with Jim Parochetti from CSREES, in the overall program direction as our key funding parent organization. Dennis has provided valuable insight into how we can work more effectively within CSREES's overall IPM programs to serve as an important component in their strategy and involvement in special new programs like Methyl Bromide Alternatives. This has been one of our New Technology Team initiatives being led by Jack Norton who has done an outstanding job in bringing this program into full operation during the last year (refer to Jack's article on page 15).

One of the partnerships we are exerting a great deal of effort towards is with the crop protection industry. We work hard to make contacts with the senior management (i.e. Vice-Presidents of R&D, Research Directors, Managers of Registrations, Product Development, Product/Business Teams, etc.), IR-4 official company contacts and minor crop business team members to make certain they are aware of IR-4's commitment to work with them to register their newest crop protection tools on minor crops. An example of the extent of these contacts and the time involved can be related to a trip taken by several Headquarters Staff members (Jerry Baron, Keith Dorschner, Dan Kunkel, Fred Salzman, Van Starner, Dave Thompson and myself) to North Carolina the second week of May to visit Aventis (on 5/8), Novartis (on 5/9 and 5/10) and BASF (on 5/11). Each of those visits involved extensive pre-meeting planning between Jerry Baron and the IR-4 official company contacts (Tom Wofford/BASF, Jim Barron/Aventis and Pat McCain/Novartis) who did a fine job to finalize meeting agenda and arrangements for travel, hotels, etc. A typical company meeting consists of a general IR-4 overview either provided by me or in the case of Novartis, Dan, followed by specific business team and/or project related discussions on current IR-4 projects and possible projects based on new company chemistries. In

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IR-4 Highlights (Partner Outreach)

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many cases, I make contacts with senior management for arrangement of special presentations. In the case of the May trip, Peg Cherney, Vice President of Communications and Public Affairs for Aventis; David Whitacre, Vice President of Science for Novartis; and Marty Mascianica, Director of Research and Development for BASF, made arrangements with me to make IR-4 overview presentations to their staffs. A special thanks to Dave Whitacre who invited me to give a presentation to his Senior Technical Staff who were a great group and asked numerous good questions. These companies are to be commended, along with our other crop protection industry partners, in making a special effort to work with IR-4 on minor crop issues in spite of challenging farm economic times and the pressures of mergers. Aventis just completed merging the crop protection businesses of AgrEvo and Rhone-Poulenc in January 2000 while Novartis is in the process of merging with the agricultural business of Astra Zeneca to form Syngenta by the end of this year. In addition, BASF is in the midst of acquiring the American Cyanamid agricultural operations from American Home Products (see Van Starner's article on page 20). Again, my thanks to these and all of our industry partners who take time from their busy schedules in the midst of mergers, acquisitions and challenging economic times to work with IR-4 to provide the newest and best crop protection tools for U.S. minor crop growers.

We may be in the middle of a busy 2000 program year, but the steps for putting together the 2001 program are being put into place. Please refer to the schedule being organized by Jerry Baron, (page 11) for the Food Use Workshop on September 12 to 14th in Orlando, Florida and the special Biopesticides Workshop IR-4 is cosponsoring with EPA's Biopesticide and Pollution Prevention Division and Health Canada's Pest Management Regulatory Agency on September 11th (page 13). The Food Use Workshop is key in providing the projects and priorities for our coming year's program while the Biopesticide Workshop will highlight joint US/Canada biopesticides regulatory programs and how registrants can effectively utilize them for NAFTA registrations. Ray Frank is organizing an Ornamentals Workshop to be held in Eastlake, Ohio from October 2nd to 6th to set priorities for the 2001 program (see page 12 for details).

As always, there never seems to be a dull moment at IR-4. We look forward to updating you on our summer activities in the Fall Newsletter. Until then, best wishes for a productive summer season.

Article by Bob Holm

AWARDS

- Dave Thompson, IR-4 HQ, was awarded a Certificate of Appreciation for continued dedication to and support of the U.S. mushroom industry on 6-13-00 by Laura Phelps, President, American Mushroom Institute. We all congratulate Dave for his support of the U.S. Mushroom Industry.

- Bernie Schneider and Jeff Herndon, US EPA, OPP-HED, and IR-4 HED Liaisons, were awarded the EPA Bronze Medals on 5-24-00 at EPA.

  IR-4 congratulates Bernie and Jeff on jobs well done.

- Jim Linduska, Entomology Professor at the University of Maryland and IR-4 State Liaison Representative was the Entomological Society of America (ESA) Eastern Branch Candidate for ESA Distinguished Achievement Award in Regulatory Entomology for 2000.

  IR-4 congratulates Jim on the award recognition from the Eastern Branch and serving as IR-4 Maryland Liaison Representative since 1974.

- Phil Korson, IR-4 Commodity Liaison Committee representing the Cherry Marketing Institute, was awarded the Cherry Man of the Year Award. This is in addition to the 1999 Distinguished Service Award from the Michigan State University.

  IR-4 congratulates Phil on awards well deserved.

Minor Crop Pest Management, Interregional Research Project No. 4 (IR-4)
National Agricultural Program
To Clear Pest Control Agents for Minor Uses

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AMERICAN CROP PROTECTION ASSOCIATION
J. Holmdal

***Committee Chair**

IR-4 Regional/Headquarters and other National/International Contacts - Directories

To provide appropriate public accessibility to IR-4 State and Federal (USDA-ARS) Liaison Representatives, Regional Project Management Committee Representatives, Regional Field Coordinators, Regional Laboratory Coordinators, Regional QA Coordinators, Headquarters, etc., we are including updated listings as attachments to this Newsletter. Telephone numbers, FAX numbers, and E-mail addresses are indicated for all contacts.

CALENDAR

July, 2000

25-26 Summer Project Management Committee Meeting, Holland, Michigan

August, 2000

6-10 National Association of County Agricultural Agents Annual Meeting, Jackson, Mississippi

12-16 American Phytopathological Society Annual Meeting, New Orleans, Louisiana

September, 2000

11 IR-4/EPA/PMRA Biopesticides Registration Workshop, Orlando, Florida

12-14 IR-4/USDA Food Use Workshop, Orlando, Florida

October, 2000

2-6 IR-4/USDA Ornamentals Workshop, Eastlake, Ohio at the Radisson Hotel

9-13 Society of Quality Assurance Annual Meeting, Montreal, Canada

10-12 37th IR-4 Annual Meeting, Colorado Springs, Colorado

24-25 National Research Planning Meeting, IR-4 HQ/ Rutgers University, New Brunswick, New Jersey

December, 2000

3-7 Entomological Society of America and Entomological Society of Canada Joint Meeting, Montreal, Canada

February, 2001

TBA Spring Project Management Committee Meeting, Washington, DC

October, 2001

8-12 Society of Quality Assurance Annual Meeting, San Diego, California

- "Any opinions, findings, conclusions, or recommendations expressed in this publication are those of the author(s) and do not necessarily reflect the view of the U.S. Department of Agriculture."
- "This material is based upon work supported by the Cooperative State Research, Education, and Extension Service, U.S. Department of Agriculture, under Hatch Act and Agreement No. 98-34383-5993."
- This Newsletter does not constitute a recommendation for use. The pesticide registrant or Cooperative Extension should be consulted for specific use information.
- IR-4 thanks the many research cooperators who have provided data to support the needed registrations.
- Pesticide User Responsibility: Use pesticides safely and follow instructions on labels. The user is responsible for the proper use of pesticides, residues on crops, storage and disposal, as well as damages caused by drift.
- Use of Trade Names: Trade names are used in this publication with the understanding that no discrimination is intended and no endorsement is implied. In some instances the compound may be sold under different trade names, which may vary as to label clearances.

The IR-4 Newsletter

The IR-4 NEWSLETTER is published quarterly for distribution to cooperators in our partner State/Federal/Industry research units, State and Federal officials, private interest groups, and private citizens. Scientists at the IR-4 National Headquarters, regional, state, and federal level, and on the IR-4 Project Management Committee contribute articles in their areas of expertise. The Newsletter design and layout are done by Cheryl Ferrazoli. This partnership publication is printed and distributed by the Cooperative State Research, Education, and Extension Service, United States Department of Agriculture, Washington, D.C. Material from the IR-4 Newsletter may be reproduced with credit to the publication. Major funding for IR-4 is provided by USDA-CSREES and USDA-ARS in cooperation with the State Agricultural Experiment Stations.

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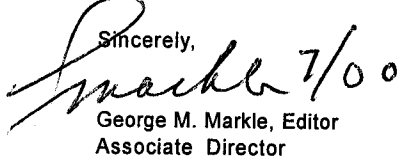
Sincerely,



George M. Markle, Editor
Associate Director
Newsletter Team
IR-4 Project

cc: Rutgers University Library of Science and Medicine
ATTENTION: University Archivist/Gov't Doc. Dept.

Food-Use Program Clearance Successes, 2nd Quarter, 2000

Pesticide*	Trade Name	Site	*Federal Register*	PR. NO.	Cooperators/Comments
Imazamox (H)	RAPTOR®	Legume Vegetables Group	29 MAR 00 (Notice of Filing Proposing a Tolerance)	6659 6663 6664 6820 6964 7715	Authored by F. Salzman. Support provided by W. Meeks, University of Idaho; R. Hampton and T. Prather, University of California; M. Santonie, Billings, Montana; J. Stinehagen, Yellowstone Bean Co., Bridger, Montana; S. Miller, University of Wyoming; A. Schreiber, Richland, Washington; R. Gareau, Dry Pea & Lentil Council, Moscow, ID; R. McReynolds, Oregon State University; S. Miyazaki and B. Zandstra, Michigan State University; L. Binning and R.G. Harrey, University of Wisconsin; R. Zollinger, North Dakota State University; R. Wilson, University of Nebraska; T. Rabaey, Pillsbury Green Giant, LeSuer, Minnesota; E. Lurvey and R. Bellinder, Cornell University; M. VanGessel, University of Delaware; C. Meister, University of Florida; T. Baughan and D. Smith, Texas A&M University; W. Mitchem, North Carolina State University; R. Sweeney, ABC Laboratories, Columbia, Missouri and USDA-ARS scientists L. Birch (WA), C. Tappan (OH), S. Benzen (CA), A.W. Johnson (GA), H. Harrison (SC) and P. Schwartz (MD). Toxicology and methodology data provided by American Cyanamid.
Clethodim (H)	PRISM®	Root and Tuber Vegetables (except Sugar beet) Subgroup 1B, Leaves of Root and Tuber Vegetables (except Sugar beet) Group 2, Leafy petioles subgroup 4B, Melon subgroup 9A, Squash/ Cucumber sub-group 9B, Cranberry, Strawberry, Clover (For seed production)	29 MAR 00 (Notice of Filing Proposing Tolerances)	5217 5227 5218 5225 5228 5358 5230 6218 6245 6244 6283 5232 6488 5229 5226 5335	Authored by M. Braverman, J. Corley and K. Samoil. Support provided by R. Hampton, C. Bell, T. Prather, and H. Agamalian, University of California; Ratto Bros., Inc., Modesto, California; K. Al-Khatibad and A. Schreiber, Washington State University; P. Kloft, Collins Ag. Consultants Inc., Hillsboro Oregon; R. William, Oregon State University; C. Meister, J. Gilreath, T. Crocker and W. Stall, University of Florida; R. Montalvo-Zapata, University of Puerto Rico; F. Eastin, University of Georgia; C. Mullins, University of Tennessee; R. Talbert, University of Arkansas; D. Monks, North Carolina State University; M. Kurtz, Mississippi State University; J. Smith, Smith Biological Services, Payette, Idaho; L. Gregg, Texas A&M University; E. Lurvey and R. Bellinder, Cornell University; L. Rossell, Rutgers University; S. Miyazaki, B. Zandstra and R. Leavitt, Michigan State University; R. Devlin, University of Massachusetts; H. Hopen, University of Wisconsin; C. Lee and R. Greenland, North Dakota State University; and USDA-ARS scientists K. Morford, R. Boydston and L. Birch (WA), H. Harrison (SC), S. Benzen (CA), D. McCommas (TX) and P. Schwartz (MD). Toxicology and methodology data provided by Valent.

Food-Use Program Clearance Successes, 2nd Quarter, 2000

Pesticide*	Trade Name	Site	*Federal Register*	PR. NO.	Cooperators/Comments
Fludioxonil (F)	SCHOLAR®	Stone Fruit Group	29 MAR 00 (Notice of Filing Proposing a Tolerance) 3 MAY 00 (Rule) Time-Limited Tolerance (TLT) under Section 18	6934 6943 6944	Authored by D. Thompson. Support provided by R. Melnicoe and J. Adaskaveg, University of California. Toxicology, methodology and analytical data provided by Novartis.
Fludioxonil (F) plus Cyprodinil (F)	SWITCH®	Strawberry, Dry Bulb Onion, Green Onion	29 MAR 00 and 12 JUN 00 (Notice of Filings Proposing Tolerances)	5033 6790	Authored by D. Thompson. Support provided by D. Gubler and A. Paulus, University of California; W. Cline, North Carolina State University; W. Miller, Clemson University; H. Kaufman, University of Tennessee; J. DeFrancesco, Oregon State University; and W. Copes, University of Georgia. Toxicology and methodology data provided by Novartis.
Diflubenzuron (I)	DIMILIN®	Rangeland	5 APR 00 (Notice of Filing Proposing a Tolerance)	757	Authored by W. Biehn. Support provided by E. Huddleston, New Mexico State University; M. Shannon, USDA/APHIS, Hyattsville, MD; and R. Nelson Foster, USDA/APHIS, Phoenix, Arizona. Toxicology and methodology data provided by Uniroyal.
Fenpropathrin (I)	DANITOL®	Cucumber/ Squash Subgroup (9B)	26 APR 00 (Rule)	2502 2507 6495	Authored by K. Samoil. Support provided by C. Meister and F. Johnson, University of Florida; R. Melnicoe, M. Parrella and C. Bell, University of California; G. Ghidiu and L. Rossell, Rutgers University; C. Mullins, University of Tennessee; R. Chalfant, University of Georgia; A. York, Purdue University; J. Linduska, University of Maryland; and USDA-ARS scientists T. Hendricks (GA), H. Toba (WA), C. Tappan and C. Krause (OH), D.McCommas (TX), A. Simmons (SC), and P. Schwartz (MD). Toxicology and methodology data provided by Valent.
Thiabendazole (F)	LSP® Flowable	Lentil	26 APR 00 (Rule) (TLT under Section 18)	6531	Study Director is D. Thompson. Support provided by M. Reiff, University of California; A. Schreiber, Washington State University; W. Meeks, University of Idaho; and S. Mangini, Del Monte Research Center. Toxicology and methodology data provided by Gustafson.
Pyridate (H)	TOUGH®	Mint	3 MAY 00 (Rule)	3927	Authored by D. Kunkel. Support provided by R. Melnicoe, University of California; S. Miyazaki, Michigan State University; S. Weller, Purdue University; L. Binning, University of Wisconsin; P. Kloft, Collins Ag. Consultants, Inc., Hillsboro, OR; and USDA-ARS scientists R. Boydston (WA) and P. Schwartz (MD). Toxicology and methodology data provided by Novartis.

Food-Use Program Clearance Successes, 2nd Quarter, 2000

Pesticide*	Trade Name	Site	*Federal Register*	PR. NO.	Cooperators/Comments
Cyromazine (I)	TRIGARD®	Lima Bean	4 MAY 00 (Rule)	3908	Authored by K. Dorschner. Support provided by R. Melnicoe and B. Bailey, University of California; C. Meister and F. Johnson, University of Florida; R. Chalfant, University of Georgia; J. Wyman, University of Wisconsin, J. Rabin, Rutgers University; R. Perez, Adpen Laboratories, Inc., Jacksonville, FL; J. Munson, California Dry Bean Advisory Board, Dinuba, CA and USDA-ARS scientists H. Toba (WA), R. Wauchope (GA), and P. Schwartz (MD). Toxicology and methodology data provided by Novartis.
Myclobutanil (F)	RALLY®	Asparagus	10 MAY 00 (Rule)	5414 A5414	Authored by D. Thompson. Support provided by J. Martini, Cornell University; S. Johnston, Rutgers University; S. Miyazaki and M. Hausbeck, Michigan State University; C. Meister, University of Florida; A. Keinath, Clemson University; J. Damicone, Oklahoma State University; R. Melnicoe, University of California; S. Mangini, Del Monte Research Center, Walnut Creek, CA; and M. Allan, Plant Sciences Inc., Ripon, CA. Toxicology and methodology data provided by Rohm and Haas.
Myclobutanil (F)	RALLY®	Caneberries	10 MAY 00 (Rule)	5057 5058	Authored by D. Thompson. Support provided by R. Melnicoe, University of California; J. DeFrancesco, Oregon State University; K. Al-Khatib, Washington State University; J. Martini, Cornell University; S. Johnston, Rutgers University; S. Miyazaki, Michigan State University; M. Ellis, Ohio State University; B. Goulart, Pennsylvania State University; C. Meister, University of Florida; H. Stiles, Virginia Tech; S. Bost, University of Tennessee; P. Kloft, Collins Ag. Consultants; P. Reiche and S. Mangini, Del Monte; and USDA-ARS scientists B. Smith (MS), C. Krause (OH) and P. Schwartz (MD). Toxicology and methodology data provided by Rohm and Haas.
Myclobutanil (F)	RALLY® NOVA®	Snapbean	10 MAY 00 (Rule)	3966 A3966	Authored by D. Thompson. Support provided by C. Meister and T. Kucharek, University of Florida; S. Miyazaki and B. Zandstra, Michigan State University; W. Stevenson and J. Wyman, University of Wisconsin; R. Melnicoe, University of California; J. Bartini and G. Abawi, Cornell University; C. Mullins, University of Tennessee; R. Baldwin, Virginia Polytechnic Institute and State University; R. Collins, Hillsboro, OR; P. Reiche and S. Mangini, Del Monte; and USDA-ARS scientists A.W. Johnson (GA); S. Benzen (CA) and P. Schwartz (MD). Toxicology and methodology data provided by Rohm and Haas.

Food-Use Program Clearance Successes, 2nd Quarter, 2000

Pesticide*	Trade Name	Site	*Federal Register*	PR. NO.	Cooperators/Comments
Myclobutanil (F)	RALLY® NOVA®	Currant Gooseberry	10 MAY 00 (Rule)	5308 5309	Authored by D. Thompson. Support provided by R. Melnicoe, University of California; J. Pscheidt, Oregon State University; A. Schreiber, Washington State University; J. Martini, Cornell University; B. Goulart, Pennsylvania State University; and S. Mangini, Del Monte. Toxicology and methodology data provided by Rohm and Haas.
Myclobutanil (F)	RALLY®	Mint	10 MAY 00 (Rule)	5409	Authored by D. Thompson. Support provided by R. Melnicoe, University of California; D. Johnson, Washington State University; S. Miyazaki, Michigan State University; S. Weller, Purdue University; W. Stephenson, University of Wisconsin; J. Calkin, Ag Solutions, Corvallis, OR; S. Mangini, Del Monte; and R. Lundy, Mint Industry Research Council. Toxicology and methodology data provided by Rohm and Haas.
Myclobutanil (F)	RALLY® NOVA®	Strawberry	10 MAY 00 (Rule)	4015	Authored by W. Biehn. Support provided by R. Melnicoe, A. Paulus and D. Gubler, University of California; J. Pscheidt, Oregon State University; B. Goulart, Pennsylvania State University; S. Miyazaki, Michigan State University; M. Ellis, OARDC, Wooster, OH; C. Meister and F. Howard, University of Florida; R.W. Miller, Clemson University; L. Black, Louisiana State University; C. Averre, North Carolina State University; R. Curtis, California Strawberry Advisory Board; C. Mullins, University of Tennessee; and Del Monte Research Center, Walnut Creek, CA. Toxicology and methodology data provided by Rohm and Haas.
Mancozeb (F)	DITHANE® M-45 MANZATE 200 DF PENNCO-ZEB 75 DF	Ginseng	24 MAY 00 (Rule) (TLT under Section 18)	992	Authored by D. Thompson. Support provided by S. Miyazaki, Michigan State University; J. Parke (Presently Oregon State University), B. Hudelson, and C. Grau, University of Wisconsin; J. Enright, Wisconsin Department of Agriculture; C. Meister, University of Florida; J. Hartman, University of Kentucky; C. Mullins and A. Rutledge, University of Tennessee; P. Shoemaker, North Carolina State University; M. Hansen, Virginia Tech University; and K. Koktavy, McKenzie Laboratories, Phoenix, AZ. Toxicology and methodology data provided by EBDC Task Force.

Food-Use Program Clearance Successes, 2nd Quarter, 2000

Pesticide*	Trade Name	Site	*Federal Register*	PR. NO.	Cooperators/Comments
Imidacloprid (I)	PROVADO®	Stone Fruit	8 JUN 00 (Rule) (TLT under Section 18)	6399 7279	Study Director is K. Dorschner. Support provided by E. Lurvey, Cornell University; L. Rossell, Rutgers University; S. Miyazaki, J. Wise, J. Johnson, L. Gut and M. Lougstroth, Michigan State University; C. Meister, University of Florida; W. Mitchem, North Carolina State University; W. Shamiyeh, University of Tennessee; R. Hampton, University of California; R. McReynolds, Oregon State University; W. Meeks, University of Idaho; M. Miller, Excel Research Services, Inc., Fresno, California; and USDA-ARS scientists K. Morford (WA) and P. Schwartz (MD). Toxicology and methodology data provided by Bayer.
Fosetyl-Al (F)	ALIETTE®	Cranberry	21 JUN 00 (Notice of Filing Proposing a Tolerance)	3504	Authored by D. Thompson. Support provided by E. Lurvey, Cornell University; L. Rossell, Rutgers University; F. Caruso, University of Massachusetts; S. Miyazaki, Michigan State University; J. Wyman, University of Wisconsin; R. Hampton, University of California; R. McReynolds, Oregon State University; and S. Kane, Colorado Analytical Research and Development Corp., Colorado Springs, Colorado. Toxicology and methodology data provided by Aventis.
Paraquat (H)	GRAMMO-XONE® Extra	Endive	21 JUN 00 (Notice of Filing Proposing a Tolerance)	7420 928	Authored by M. Braverman. Support provided by C. Meister and D. Myhre, University of Florida; and R. Talbert, University of Arkansas. Toxicology and methodology data provided by Zeneca.

* F - Fungicide
H - Herbicide
I - Insecticide/Miticide
R - Rodenticide

Compiled by Bill Biehn

IR-4 Food-Use Program

IR-4 Food-Use Research

Year 2000 Research Program, Off and Running

IR-4 conducting 146 studies

The 2000 research program is in full swing. IR-4 is conducting 146 studies supported by 725 field trials with 702 of those supporting residue studies. Although IR-4 initially anticipated conducting a fewer number of studies compared to previous years, the current number is essentially equal to the 1999 program which consisted of 151 studies supported by 593 field studies. There was a significant increase in the number of studies from our spring Newsletter (Vol. 31:1) where we noted 127 studies planned for the 2000 season. This increase is the result of additional support for several new Reduced Risk insecticide and fungicide projects that IR-4 anticipates will play a key role in replacing other FQPA vulnerable products.

Article by Dan Kunkel

Industry Meetings with IR-4 During the 2nd Quarter 2000

The Study Directors, as well as the Research and Registration Managers have been making their annual tour to cooperative registrants again this year. These technical meetings help bring registrants up-to-date on IR-4's progress as well as providing an exchange of minor use needs and what new chemistries companies are developing. Finally, these meetings help IR-4 to prepare for the Food Use Workshop that will be held this September, which initiates preparation of our research for 2001. Over the past few months, IR-4 met with Aventis (Rhone-Poulenc/AgrEvo), BASF, Dow AgriSciences, DuPont, Novartis, Valent, and Zeneca. Many of the companies shared information regarding new crop protection tools that may show promise for research in 2001. The Food Use Workshop should prove to be another debut of many new products that show a great deal of promise for minor crop growers.

Article by Dan Kunkel

IR-4/USDA 2000 Food Use Workshop Announced

Minor crop commodity growers, extension personnel, state and federal researchers and agrichemical company representatives are encouraged to attend the September 12-14, 2000 IR-4 Food Use Workshop. It will be held at the Grosvenor Resort Hotel, Downtown Disney, Orlando, Florida. Participants at this meeting review the Clearance Requests that have been submitted to IR-4 during the preceding twelve months and is the beginning of the prioritization process for the IR-4 2001 work schedule. September 12 will be for plant disease management, September 13 for insect management and September 14 for weed management. For more information on workshop registration, contact Cheryl Ferrazoli at IR-4 Headquarters, (732) 932-9575 x 601 or ferrazoli@aesop.rutgers.edu. Also see page 34 of this Newsletter for additional information. NOTE: Pesticide Clearance Request (PCR) forms are attached to this Newsletter as inserts.

Article by Sandy Perry and Jerry Baron

IR-4 ORNAMENTALS PROGRAM

IR-4 Ornamentals Workshop - Update

The IR-4 Ornamentals Workshop for 2000 will be located at the Radisson Hotel and Conference Center at Eastlake, Ohio.

The Workshop will be held October 2-6, 2000.

Monday, October 2	- Entomology
Tuesday, October 3	- Plant Pathology
Wednesday - October 4	- Floral and Nursery Crop Tour
Thursday - October 5	- Weed Science and Plant Growth Regulators
Friday - October 6	- Optional Tour to OARDC at Wooster, Ohio

The Workshop is being held to prioritize which pest control tools are needed for the production of floral, forestry, nursery and turf crops. State, federal and individual researchers, extension personnel, growers of these types of crops and agricultural company personnel are encouraged to attend.

For lodging call the Radisson Hotel at (440) 953-8000 before September 5, 2000. Rate is $67.00 per night for single or double room. Also pre-register by September 5 to receive the complete meeting materials prior to the Workshop. Call Cheryl Ferrazoli at IR-4 Headquarters (732) 932-9575 ext. 601. Pre-registration fee is $50.00. On-site registration is $70.00. For additional information contact J. Ray Frank (301) 898-5332.

Article by J. Ray Frank

IR-4 Ornamentals Program - Travel This Quarter

On 4 April 2000, I traveled to the Rutgers University Agricultural Research Center at Bridgeton, NJ following the request of Jim Johnson to discuss the IR-4 Ornamentals Program. Attendees included Jim Johnson (Rutgers Cooperative Extension), Shane Ball (Station Director), Ann Gould (Specialist in Plant Pathology), Steve Hart (Specialist-Weeds), Erin Hitchner (IR-4 Field Researcher and Larry Rossell's Assistant), and Jim Lashomb (Specialist in Entomology). We all agreed that NJ is a very important ornamental growing state ($350 million annually) and those who work in the ornamental area in New Jersey could have a high impact on the IR-4 Ornamentals Research Program. Enough money is now available for 40 ornamental research projects this year.

During the period 1-6 May 2000, I traveled to the South Mississippi Branch Experiment Station of Mississippi State University at Poplarville, MS. Dr. Patricia Knight who is conducting IR-4 ornamental research at the Poplarville site provided a tour of the Station and her research. We traveled to two commercial nurseries to observe the plant materials they are growing. Both of these nurseries are producing high quality container grown plants. One operation is specializing in large trees grown in containers up to 65 gallons.

I visited with Jim Martin of Canal Industries which is a large wood chipping operation that ships wood chips around the world. We visited tree growing sites in Butler and Centreville, Alabama.

During the period 15-17 May 2000, I traveled to Kingston, RI to visit Larry Englander and Dave Wallace who conduct ornamental research on fungicides and insecticides for the IR-4 program. I observed ongoing research on the University of Rhode Island campus. We visited six nurseries in Rhode Island. We observed some ball and burlap plantings but growing in containers seems to dominate. Pot-in-pot culture was also observed. We also visited nurseries that are growing perennials primarily. While on campus, I visited with Ray Taylorson and we discussed his turf weed control research.

I traveled to the Connecticut Agricultural Experiment Station at Windsor to visit John Ahrens and Todd Mervosh who conduct IR-4 ornamental weed control research. The three of us then visited a large container nursery in northern Connecticut.

Article by J. Ray Frank

IR-4 BIOPESTICIDE PROGRAM

Biopesticide Workshop

The IR-4 Project, along with US EPA's Biopesticide and Pollution Prevention Division (BPPD) and Health Canada's Pest Management Regulatory Agency (PMRA) are pleased to announce that we are conducting a Biopesticide Registration Workshop. The theme of the workshop is "Opportunities for Harmonization of the US and Canadian Biopesticide Registration Process". This half-day workshop is scheduled for Monday, September 11, 2000, from 1:00 to 5:00 PM in Orlando, FL. The Biopesticide Registration Workshop is being held in conjunction with the annual IR-4 Food Use Workshop which is scheduled on September 12 to 14 at the Grosvenor Resort Hotel, Downtown Disney, Orlando, FL. Below is a copy of the preliminary agenda.

Beside the formal presentations from IR-4 and the two regulatory agencies, there is a panel discussion on the "Experience and/or Opportunities for Joint Review/Workshare of Biopesticide Submissions by EPA and PMRA". There will be several industry representatives sharing their experiences with joint review and work sharing in the biopesticide area.

The registration fee for the Biopesticide Registration Workshop is US$25.00 if received before September 1; On-site registration is US$35.00. The fee for the Biopesticide Registration Workshop is waived for those also registering for the IR-4 Food Use Workshop.

For additional information about either workshop call or e-mail Cheryl Ferrazoli, IR-4 Headquarters, 732/932-9575 ext. 601, ferrazoli@aesop.rutgers.edu.

IR-4/EPA/PMRA Biopesticide Registration Workshop
Monday, September 11, 2000

11:30 AM - 1:00 PM	Registration
1:00 PM - 1:15 PM	Welcome
1:15 PM - 1:30 PM	Introduction to OECD and NAFTA Harmonization of Biopesticide Registration Process - Wendy Sexsmith/PMRA
1:30 PM - 2:30 PM	Program Overview Janet Andersen/EPA Wendy Sexsmith/PMRA Bob Holm/IR-4
2:30 PM - 2:45 PM	Break
2:45 PM - 4:45 PM	Panel Discussion "Experience and/or Opportunities for Joint Review/Workshare of Biopesticide Submissions by EPA and PMRA" Moderator: Jerry Baron/IR-4 Panelists: Phil Hutton/EPA Brian Belliveau/PMRA Imme Gerke/BioTEPP Grant Oliver/3M Gary Libman/ECOGEN Inc. Jerry Butler/Eden Biosciences
4:45 PM - 5:00 PM	Wrap-up and Recommendations

IR-4 QUALITY ASSURANCE

QA Focus

(19th in a series of QA Updates)

Changes in the North Central Region

The IR-4 Quality Assurance Unit (QAU) would like to welcome a new member to the IR-4 QAU team. Dr. Zhongxiao Chen (Michael) is the new Regional Quality Assurance Coordinator beginning May 15, 2000. Michael earned his B.S. in Crop Protection and M.S. in Entomology at Zhejiang Agriculture University, Hangzhou, China. His Ph.D. work, in Plant Nematology at the University of Florida, focused on biological control of root knot nematodes with the bacterium *Pasteuria penetrans*. Postdoctoral work followed in the Department of Agronomy (USDA-ARS) and the Department of Entomology and Nematology at the University of Florida.

Michael has extensive experience in pesticide residue analysis, GLP field studies and quality assurance. Most recently he was Research Director of DATA Associates, Pest Pros Inc., Plainfield, WI where he headed the GLP field studies and pesticide evaluation programs.

Michael and his wife, Yanping Wu , have two children, Emily, aged 10 and Larry, 20 months. The Chens are settling into life in East Lansing.

You can reach Michael at 517-432-2028 or email him at chenzho@pilot.msu.edu.

We would also like to congratulate former NC Regional QA Coordinator, Dr. Chris Vandervoort, in her new position as Residue Chemist with the Center for Integrated Plant Systems at Michigan State University.

Article by Sandy Perry

Update on the Revised GLPs

The consolidated GLPs were published as a proposed rule in the Federal Register on December 29, 1999. This consolidation would merge the FIFRA and TSCA Good Laboratory Practice Regulations into a single document. This new standard also would bear a new Code of Federal Regulation number, 40 CFR 806 (replacing the 40 CFR 160). The comment period on this proposed rule ended on March 29, 2000 and according to F. Liem, Chief of the EPA Office of Compliance, Data Integrity Branch, the final rule should be published with the EPA's answer to the submitted comments in six months time from the close of the comment period. This translates into the final rule being published on Sept. 29, 2000. After publishing, the new rule will become effective in 60 days. We will keep you updated on the status of this new rule.

Article by Tammy White

EPA Holding Public Meetings on Electronic Records and Report Submissions

The newly formed EPA Office of Environmental Information is in the process of holding several meetings on the issue of new rules governing electronic record collection and submission of reports. The new rule has been named,"the Cross-Media Electronic Reporting and Record-keeping Rule (CROMERRR). The first public meeting was held in Chicago, IL on June 6, 2000. The second meeting will be held on July 11, 2000 in Washington, DC. Feedback from the first meeting is limited, but it appears that this new office is unaware of how this rule may severely impact the data collection ability and submission of raw data and reports generated from GLP studies under FIFRA and TSCA. The IR-4 Project may be impacted because the new rule will potentially define how to collect electronic data, how to store electronic data, what constitutes original data (some have said its the electronic signal that is first stored on the hard drive, making the hard drive subject to archival), it may implement a cradle to grave validation scheme that will require access to software source code, retention of all documentation of design changes to acquisition software, require that all systems have defined, and controlled security systems, etc. These are all items that are part of the FDAs 40 CFR Part 11 and the EPA has indicated that their rule will be consistent with FDA. The issue of electronic reporting is already starting to impact GLP data collection in that the consolidated GLPs have proposed to add computers under the same rules as equipment.

Members of the SQA's Regulatory Review Committee and its Board of Directors are planning to monitor this rule making process and intend to offer public comment on how this rule will affect GLP facilities. The intent is to assist the EPA in this process and assure that they learn from the trial and error experienced by FDA regulated entities when they (FDA) put into place their electronic data and report rule, 40 CFR Part 11.

Article by Tammy White

Preliminary Results and Observations from IR-4 Methyl Bromide Alternatives (MBA) Programs in Strawberries and Tomatoes

Strawberries: The field phases of IR-4's methyl bromide alternatives trials in strawberries have ended in Florida and are nearing completion in California. Results from two trials in California and two in Florida will be compiled into a full report to be summarized in the fall Newsletter. Preliminary data indicate good control of nematodes, soilborne diseases and weeds equal or better than the methyl bromide/chloropicrin standard from methyl iodide/chloropicrin and from several treatments including Telone combination treatments with either metam sodium or Basamid (dazomet). These treatments were especially effective in protecting strawberry plants from heavy sting nematode (*Belonolaimus longicaudatus*) pressure in the Florida trials. In the Florida trials, Telone C-35 was shanked into preformed beds at 35 gallons per acre and followed with Basamid at 200 lbs per acre or metam sodium (42% ai) at 37.5 gallons per acre applied to bed surfaces. These treatments were mulched with clear plastic following the Basamid and metam sodium applications. Inline (Telone C-35 EC formulation) was used in the California trials. It was drip-applied from drip tapes placed on bed tops under plastic mulch. The Inline treatments involved combinations with Basamid or metam sodium using the same use patterns and rates of application as were used in the Florida trials. The Inline combination treatments with Basamid or metam sodium look quite promising and will be reported in detail later when all data are statistically analyzed and summarized. Two formulations of methyl iodide/chloropicrin were evaluated in the Florida trials. Both formulations (67/33 MI/PIC and 50/50 MI/PIC) were shank injected and mulched with plastic. Rates used were 350 lbs/A for the 67/33 formulation and 250 lbs/A for the 50/50 formulation. All of the above treatments resulted in yields statistically equal to or better than yields obtained from the methyl bromide chloropicrin standard treatment in the Florida trials. These treatments and also methyl iodide alone at 117 lbs/A were evaluated in the California trials. Each of these treatments showed promise in the California trials. Strawberry yield data are still being collected in the California trials and will be reported in the Newsletter when all data are available.

Tomatoes: IR-4's methyl bromide alternatives program in tomatoes is now underway with two trials established in Florida and two in California. Trials in Florida were established in March, about 2 months earlier than the California trials. No data are available at this time from the California trials. Early results from the Florida trials show growth and vigor of tomato plants equal to the methyl bromide/chloropicrin standard and superior to the non-treated check from several treatments, including all methyl iodide treatments (methyl iodide alone and in combination with 33% or 50% chloropicrin), Telone C-35 alone or in combination with Basamid (dazomet) or metam sodium, propargyl bromide alone, fosthiazate (500 EC and 900 EC formulations) combinations with metam sodium, chloropicrin EC in combination with metam sodium, and metam sodium alone. A new entry in IR-4's methyl bromide alternatives program, PlantPro 45, was safe and efficacious from pre-plant applications but caused stunting of tomato plants when applied post-plant through drip tapes. The tomato plants are recovering from the stunting and yields may not be affected by what appears to be a transient phytotoxic effect.

Article by Jack Norton

The IPM World Textbook and IR-4

Ted Radcliffe and Bill Hutchison, faculty members in the Department of Entomology, University of Minnesota, have developed an on-line textbook for Integrated Pest Management (IPM). The web site was created to provide an alternative or to compliment existing printed textbooks on the subject. There are certain inherent advantages to publishing textbooks on the web: the site can be updated whenever new information or contributions become available, the information can be delivered anywhere in the world and can be freely downloaded for use by students, teachers, and IPM practitioners, and links can be provided to related information sources on the web.

The site (http:ipmworld.umn.edu/ipmsite.htm) consists of chapter contributions from many individuals with expertise in IPM and includes a chapter developed by IR-4 Headquarters personnel. Readers interested in IPM topics and discussions are encouraged to visit the site for further information.

Article by Keith Dorschner

IR-4 National Outreach Specialist Report - Regional News

Michigan IR-4 Conference a Success.

Sixty people gathered on the Michigan State University campus April 4, 2000 for the fourth annual Michigan IR-4 Conference. The conference, organized by Satoru Miyazaki and Bob Hollingworth, attracted campus specialists, extension agents from around the state, growers, and representatives from the Michigan Farm Bureau, the Michigan Department of Agriculture, and commodity organizations.

Speakers for the morning session included Pat Cimino, EPA ("What Has Happened/What Will Happen Regarding Minor Crops and FQPA"), Larry Elworth, Center For Ag Partnerships ("As Good As It Gets: Living With and Beyond FQPA"), Dan Kunkel ("Progress and Plans for Registering Pesticides and Biopesticides of Interest to Michigan Agriculture"), and Bob Holm ("Challenges Posed by FQPA to the Ornamental Industry and the IR-4 Response").

Larry Elworth pointed to some of the good things that have come out of FQPA: involvement by major commodities has focused EPA's attention, establishment of TRAC has forced real openness on EPA procedures and there is more grower involvement in the process. The need for good efficacy data was a recurrent theme in the presentations and the discussions. Pat Cimino pointed to EPA's technical briefings and conference calls as ways of getting input from the field and stressed EPA's need for efficacy data. One of the extension specialists expressed concern that expediting registration of poorly active biocontrol compounds without good efficacy data burdens extension specialists with proving to growers that the compounds probably will not work.

The afternoon session, devoted to assisting specialists and growers with the Pesticide Clearance Request (PCR) forms, resulted in over 20 PCR's being submitted.

Increasing interest in and attendance at the Michigan IR-4 conference is related to several state minor crop and FQPA issues. In a joint project, Michigan State University and the Michigan Department of Agriculture have been analyzing pesticide residues in selected food crops for 3 years. The data have been useful to EPA for comparison with USDA's Pesticide Data Program (PDP) information. Michigan has also been formulating FQPA transition strategies for carrots, asparagus and tart cherries. IR-4's New Pest Control Technology information has been used in each of the strategy sessions, emphasizing the importance of IR-4 to the future of pest control options.

Article by Sandy Perry

Commodity Liaison Spotlight

Jere Downing and the Cranberry Institute (CI) are our focus for this edition of the IR-4 Commodity Liaison Committee (CLC) SPOTLIGHT. IR-4's Commodity Liaison Committee was formed in 1991. The purpose of the CLC is to provide guidance on how to best serve minor crop producers and other stakeholders. Most importantly, the CLC works tirelessly to keep their Congressional representatives informed about the valuable work being done by IR-4 and the need for increased federal funding to continue that work. We are spotlighting individual members of the CLC to share with you the work they do for minor crop agriculture.

The Cranberry Institute

Cranberries are grown commercially on 36,000 acres of mostly wetlands primarily in Massachusetts, Wisconsin, New Jersey, Washington and Oregon in the US, and on another 5,000 acres primarily in the British Columbia and Quebec provinces in Canada. The North American harvest in recent years has averaged about 600 million pounds of cranberries having a farmgate value of $300 million, although the price of the crop has dropped precipitously over the past two years.

The Cranberry Institute represents the entire group of over 1000 cranberry growers in the US and Canada. The 3 primary functions of CI are: provide funding for a wide variety of research projects, track regulatory issues that could impact cranberry growers, and provide timely information on these issues to the grower community and the supporting member companies.

The CI is the single organization that links the supporting member companies like Ocean Spray Cranberries, Inc. and the national, regional and Canadian cranberry grower associations. Ocean Spray is a grower-owned marketing cooperative, the largest handler and processor of cranberry products in the world, and receives about 65 % of the US cranberry crop. Jere Downing, who has been the Executive Director of the CI since 1991, says, "We provide technical support to growers as well as newsletters and other pertinent information. The Institute works closely with the grower organizations as well as Ocean Spray and the independent handlers to coordinate the development of crop and environmental research priorities and funding initiatives each year". Jere came to the Cranberry Institute after 10 years as a Manager in Ocean Spray's Grower Relations Dept.

Continued on Page 17

Commodity Liaison Spotlight

Continued from Page 16

Because cranberries are grown mostly in vulnerable wetland habitats, the industry has worked to implement new alternative strategies for pest control that will prevent the risk of surface water pollution. In 1995, the CI joined with EPA as one of the early partners in the Pesticide Environmental Stewardship Program (PESP). CI's goal was to refine and implement biologically intensive IPM and reduced risk pest control practices. The CI, through a PESP grant, was able to conduct a commodity-wide assessment of cranberry IPM practices. Grower response showed widespread acceptance of IPM practices (94% of growers monitor for pests by sweep netting or pheromone traps) with willingness to adopt new and more selective pest management tactics. The Food Quality Protection Act (FQPA) implementation has motivated the transfer of technology from organophosphate-based IPM programs to IPM programs that are more sustainable and based on selective strategies to reduce environmental risk and resistance management concerns plus maintain food safety.

IR-4 has been instrumental in assisting the CI's pursuit of several reduced risk insecticide clearances for key cranberry pests. Biological pesticides are also being investigated with funding assistance from IR-4. Major efforts are underway for a bioherbicide, entomopathogenic fungi and pheromone mating disruption. "Over the past 25 years," says Jere Downing, "virtually all new cranberry registrations have come through IR-4. We will continue to depend on the IR-4 Project to provide newer, low risk pesticides for cranberry growers after FQPA." Through the efforts of Gary Deziel at CI, an annual industry-wide series of conference calls are held to assess the industry's pest control needs and to set priorities for the next year's IR-4 research projects. Drs. Steve Booth and Kim Patten of Washington State University have called the CI "A model for the coordination of research efforts among regions and the prioritization of compounds to be advanced toward registration."

Article by Sandy Perry, perrys@msue.msu.edu

IR-4 Outreach Report

We are working hard to spread the word and inform minor crop growers and stakeholders about the accomplishments of IR-4. Any help that you, as a supporter of IR-4, can give to the effort is appreciated. Tools to assist with this task are increasingly available. PowerPoint slide sets about IR-4 are available, please contact Sandy Perry. News Briefs about IR-4 are available on the IR-4 website, http://www.cook.rutgers.edu/~ir4 (Click on the IR-4 News page, then on Monthly News Briefs). Feel free to use any of this information to help others learn about the IR-4 Project and how they can contribute.

A new feature for the newsletter and soon, for the website, is a Spotlight on commodity organizations that participate in the IR-4 Commodity Liaison Committee. These groups provide valuable input about minor crop needs and promote IR-4 in the legislative arena. The Spotlight is an attempt to share the important part that commodity organizations play in minor crop agriculture.

The newest project underway is a look at Section 18s for which IR-4 has contributed data. We are trying to quantify the potential dollar loss value that would have occurred if the Section 18 had not been granted. Many thanks to the state of Washington who has put their information on the web. For the remaining states, it will take days of digging through file cabinets at EPA's Section 18 office. If you have this information for your state for the years 1997-1999, and would like to save me some time, please contact me at perrys@msue.msu.edu.

One project on the drawing board is a series of brief fact sheets on topics relating to the IR-4 mission. Some suggested topics so far are: benefits of fruits and vegetables, crop groupings and registration, good lab practices, pesticide risk assessment, Section 18's and 24c's. If you would like to add to this list, send me a note at the address above.

IR-4 will again have a display at the national American Farm Bureau Federation meeting in January, 2001. The presentation abstract is being prepared and will be included in the next newsletter.

Article by Sandy Perry

EPA/IR-4 Technical Working Group Meeting and "Beyond the Beltway" Minor Crop Tour

The June 6 Technical Working Group (TWG) meeting at EPA Headquarters drew a larger than usual attendance. Personnel from EPA Registration Division and Health Effects Division, IR-4 Headquarters, IR-4 regions, USDA-ARS, commodity groups, as well as telephone representation from both California and Canada's departments of pesticide regulation, tackled a substantial agenda. Chemical issues addressed included propargite post-harvest use for stone fruit production; imidacloprid sphere registration for apple orchard use; clethodim, clopyralid, and deltamethrin on oilseed crops; zinc phosphide non-food uses and use on alfalfa; and spinosad state registrations in California. Crop issues included use of subgroup vs. crop group tolerances, classification of watercress as upland under water management techniques, cilantro equaling parsley for official petition use, and a proposal for use of surrogate data for stevia and Promor A. Regulatory issues discussed included Renewal of 24c's in Puerto Rico, EPA's and IR-4's workplan update, EPA's current and future registration policies for the MITC "generators," and California's Progress on review of IR-4 petitions and petition selection for 2001.

Two zinc phosphide issues were reported to be still unresolved, yet closer to resolution. These issues are: 1) the request for non-food use status for post-harvest applications on blueberries and caneberries and for at-planting applications on cucurbits, and 2) the request for registration in California on alfalfa (including aerial application). Additional information supporting both of the above requests has recently been submitted to EPA, though not all of it had been reviewed prior to the TWG meeting. The conclusion of the non-food use issue is believed to be imminent, whereas the conclusion of the alfalfa registration issue is probably several months away.

Katherine Boyle and Kerry Leifer discussed the changes faced by the Inert Ingredients Group at EPA as a result of FQPA. The next meeting of the IR-4/EPA TWG is scheduled for September 27.

June 7 provided perfect weather for a day long "Beyond the Beltway" field commodity tour. The goal was to give EPA, CSREES, ARS and IR-4 participants a chance to visit with growers and processors, listen to their needs and encounter production problems as they exist in the field. The outing began at the Beltsville, MD USDA-ARS facility where we visited the research facilities of Emy Pfiel and Jim Locke who have both contributed significantly to the IR-4 Project. The next stop was Saulsbury Brothers packing plant. Saulsbury contracts for and processes millions of dollars of frozen vegetables each year. Orrell Saulsbury, in his introductory comments to the group, was emphatic in stating that, "To us, vegetables are not minor crops." The plant was processing peas and we were able to follow the crop through the entire process from the pod to the final graded, frozen product.

IPM Consultant, Luke McConnell, accompanied the tour to a field stop to see freshmarket spinach and peas. He was proud to show off the results of a single Quadris spray which had given excellent control of white rust on spinach (a Section 18 tolerance gained through the IR-4 Project).

The final stop was the Phillips Mushroom Farm in Kennett Square, PA. Phillips Farm is a third generation family operation which, since 1993, has concentrated exclusively on specialty mushrooms such as portabella, shiitake, enoki, and others. They sell millions of pounds of specialty mushrooms each year, more than any other producer in the U.S. The farm has been certified organic for five years and is one of only five certified organic mushroom growers out of 140 businesses nationwide. IPM practices and limited use of biological pest control products have preserved the organic status. However, the manager was quick to point out that Phillips Farms strongly supports the continued registration of synthetic as well as biological pest control products. Should a new pest threaten the mushroom industry, there is business security in knowing that alternative pest control options exist.

A group dinner ended the day. The tour successfully completed the task of bringing regulators, administrators and researchers together with some of the realities of minor crop agriculture.

Article by Ken Samoil and
Sandy Perry

Plum Pox Virus of Stone Fruit - An Update

Between the time the Spring Issue and this issue of the IR-4 Newsletter went to press, field survey and laboratory activities in the Mid-Atlantic stone fruit industry, related to the Fall 1999 discovery of plum pox virus (PPV) in Adams County, PA, moved into full swing. Other regulatory actions have also been published recently. Because this stone fruit disease is considered an extraordinary emergency with potential negative implications on a national basis, a brief update is warranted.

As of the end of the week of 23 June 2000 (according to Weekly Plum Pox Updates provided by the PA Dept. of Ag. - see additional PA web site below), 389 positive test results (out of 10,845 tested) from foliage assays, confirming infection by PPV, have been recorded from a total of 36 commercial stone fruit orchards in Pennsylvania. To-date all positives except for one have been from within the two-township area quarantined in Adams County last fall and only from those growers who were affected last year. During the week ending June 9, one positive result was from a commercial peach block which straddles the Adams/Cumberland County borders. This requires the PA quarantine to be revised to include South Middleton Township in Cumberland County, PA. In addition to samples from commercial orchards, samples processed from homeowner stone fruit trees and ornamentals in the quarantine area, wild Prunus sp., and budwood source trees have all been negative for PPV except for one sample (testing PPV positive from a homeowner site (apricot tree)). To-date there have been no positives for PPV reported from any other county in PA nor from survey results from surrounding states. However in a press release dated 23 June 2000 from Ottawa, the Canadian Food Inspection Agency (CFIA) announced the discovery of PPV in an orchard near Niagara-on-the-lake, Ontario, the first discovery of PPV outside PA, USA, in North America.

A few recent regulatory actions related to PPV also deserve mention.

1) The Canadian Food Inspection Agency has suspended all import permits for Prunus propagative plant material (including nursery trees, scionwood, seed and rootstocks of peach, apricot, plum, prune, and nectarine) from the U.S. The suspension does not apply to cherry trees and does not affect imports of fresh fruit into Canada.

2) In the 2 June 2000 Federal Register, the Animal and Plant Health Inspection Service (APHIS) of USDA announced an interim rule in which it is "quarantining part of Adams County, PA, due to the detection of plum pox in that region" and is "restricting the interstate movement of certain articles from the quarantined area that present a risk of transmitting plum pox. This action is necessary on an emergency basis to prevent the spread of plum pox to noninfested areas of the United States."

3) In the 8 June 2000 Federal Register, EPA announced a final rule establishing time-limited tolerances for the combined residues of imidacloprid and its metabolites in stone fruit, effective until 31 December 2001. This was in response to EPA's granting of emergency exemptions under Section 18 of FIFRA for the use of imidacloprid on stone fruit for the control of aphids (vectors of PPV) in the states of PA, NY, NJ, and WV. Clearly, with no reliable insecticides for aphid control on stone fruit and the current PPV situation, emergency conditions exist in these states.

Additional web sites for the latest information on PPV:
http://www.state.pa.us/PA_Exec/Agriculture/plum_pox
http://www.caf.wvu.edu/Kearneysville

Acknowledgment:
PA Dept. of Agriculture Plum Pox Weekly Updates

Article by Van Starner

All Pesticide Tolerances are Consolidated under 40 CFR Part 180

On May 10, Susan Hazen of EPA signed two final rules which will transfer all food and feed additive tolerances that are now in 40 CFR parts 185 and 186 to part 180. Prior to FQPA, pesticide residues in food and feed were regulated under two sections of the Federal Food, Drug and Cosmetic Act (FFDCA). Residues in raw agricultural commodities were regulated under section 408 and pesticide residues in processed food or animal feed were regulated as food or feed additives under section 409 of the FFDCA. These tolerances are being consolidated in part 180 because as a matter of law all pesticide tolerances are now regulated under section 408 of the FFDCA. The next edition of 40 CFR (revised as of July 1, 2000) will include all pesticide tolerances in part 180.

Article by Hoyt Jamerson, EPA-RD

New Companies

In the ever-changing world of corporate America, the agricultural chemical industry has seen its fair share of mergers, spin-offs, and other kinds of consolidations over the past few years. Recently (1999) we saw the merger of the crop protection interests of Rhone-Poulenc and AgrEvo to form the new company Aventis, with U.S. headquarters in Research Triangle Park (RTP), NC. Late last year, Novartis AG (global headquarters in Switzerland) and Zeneca (headquartered in the UK) announced plans to spin off their respective agricultural chemical/seed businesses into a completely new company (Syngenta), totally separate from the mother companies' human health/pharmaceutical concerns and focused entirely on crop protection and seeds. Regulatory approvals for the formation of Syngenta are anticipated to be completed later this year, but the site of its U.S. headquarters is under consideration. Another consolidation currently pending finalization is the purchase by BASF (U.S. headquarters in RTP) of American Cyanamid (a subsidiary company of American Home Products located in Parsippany and Princeton, NJ). Details of this union are expected to have been announced by the time this newsletter is published.

It is likely that further consolidations in this industry will take place in the coming years. For a little historical perspective on the "genealogy" of agricultural chemical companies, take a look at the "tree" available at http://www.css.orst.edu/herbgnl/tree.html from Arnold P. Appleby at Oregon State. The bottom line for IR-4 is that we'll have fewer company contact trips to make (saving those travel budget $!), but hopefully we'll have even more potential tools to help develop for the management of pests on minor crops!

Article by Van Starner

Herbicides for Minor Use Committee of the Weed Science Society of America Meeting at the Food Use Workshop

The Herbicides for Minor Use Committee of the Weed Science Society of America is planning a mid-year meeting in conjunction with the Food Use Workshop in Orlando, Florida. The meeting is scheduled for Wednesday afternoon, September 13, the day prior to the weed science review at the workshop. A meeting room at the Grosvenor Resort Hotel has been reserved from 1:00 to 5:00 PM. The agenda for the meeting will remain open until the start of the meeting. However, it will include discussions, led by Marija Arsenovic, of the New Technology Team initiatives for weed control in cucurbits and spinach, and the minor crops most vulnerable to loss of herbicides.

All weed scientists with an interest in weed control in minor crops are welcome to attend. Any questions regarding the meeting should be directed to Bernie Zandstra, Chairman of the committee (Phone: 517-353-6637; E-Mail: zandstra@pilot.msu.edu) or Fred Salzman, IR-4 Weed Science Coordinator (Phone: 732-932-9575 ext. 625; E-mail: salzman@aesop.rutgers.edu).

Article by Fred Salzman

IR-4 Seeks Fungicide Management Input at National APS Meeting

August 12-16, 2000
New Orleans, LA

The American Phytpathological Society (APS) Meeting in New Orleans, August 12-16, 2000, will again be the site for fungicide management working group discussions organized by IR-4. This year's discussions will involve root vegetables (carrot, radish, beet, turnip), blueberries, peaches, potatoes and tomatoes. The information provided from last year's subjects (apples, strawberries, Brassica vegetables, bulb vegetables, cucurbits, and leafy vegetables) has been very useful to the IR-4 prioritization of fungicide research. Without the working group's input, a number of fungicide project requests may have fallen by the wayside. The working groups are organized around EPA's 19 crop groups/subgroups. The goal is to bring together people with a common crop interest and provide a forum for exchanging information on fungicide management programs. Even if you are unable to attend the New Orleans meeting, your input by e-mail is desired. You may have the vital piece of information that allows a fungicide to proceed toward registration rather than languish. To join one or more of the fungicide management working groups, contact Dr. David Thompson (dthompson@aesop.rutgers.edu) at IR-4 Headquarters. Name your crop area(s) of interest and you will be placed in the appropriate working group. During the year, IR-4 relies on the working group e-mail lists as a method to quickly query experts when information is needed to proceed with fungicide registrations.

Article by Sandy Perry and Dave Thompson

Data Mining Exploration

At the last several IR-4 Food Use Workshops, it became evident that the lack of efficacy data, especially for the newer chemistries, was becoming a stumbling block for proceeding with some IR-4 residue trials. This situation was discussed further at the October 1999 IR-4 Annual Meeting/ Symposium. Many felt there may be a large source of untapped data available in the public sector which are not normally submitted to IR-4. Research may be available from professional societies, the internet, research and extension specialists, manufacturers, foreign and domestic growers/ commodity organizations, other countries, IR-4 State Liaisons, and USDA.

The IR-4 Project Management Committee approved the recommendation to conduct a pilot study to determine if data are available and, if so, does it meet the needs of the program. I have been assigned on a part-time basis to search sources, collect and track efficacy data. (Now the hunt for data begins!!) For those of you who do not know me, I was formerly with the Western Region IR-4 Office prior to my husband's relocation.

Finding these data will help expedite Magnitude of Residue Studies. The critical part is obtaining your input. If you are aware of such data being developed, please take a moment to contact me by email or phone as noted below.

Margaret Reiff
IR-4 Project
1296 E. Gibson Rd., PMB 202
Woodland, CA 95776
PH & FAX: (530) 662-9367
E-mail: margir4@calweb.com

Article by Margaret Reiff

California Minor Crops Council to Address Issues for Specialty Crops

In an effort to have a greater voice in the future of pesticide use for California specialty crops, several commodity organizations have formed the California Minor Crops Council.

"There was concern among several California commodity groups about pesticide regulation in general and, specifically, about implementation of the Food Quality Protection Act (FQPA)," noted Jonathan Field, Manager of the California Tree Fruit Agreement, Chairman of the new Council's Executive Committee. "We felt that although many California agricultural groups are individually working on pesticide issues, California specialty crops have not had a clear, unified voice in the more technically-oriented FQPA discussions when compared to other states like Florida and Washington.

"California is obviously important when it comes to U.S. agriculture, particularly with respect to produce and specialty items," continued Field. "There is so much being done to reduce pesticide risk in this state and we also have access to detailed statistics on actual pesticide use for many products that are grown almost exclusively in California. We want this information to be fully communicated as part of FQPA negotiations and the California Minor Crops Council is designed to make sure that happens."

The first act of the California Minor Crops Council was to hire Dr. Lori A. Berger who will serve as the group's director of technical affairs. Berger has been brought in to provide broad technical representation on behalf of California minor and specialty crops and convey the industry's position on future use of crop protection tools and their alternatives.

As part of her new duties, she will spend time in Washington, DC working with regulators while providing information back to the Council. Berger will be sharing office space with Citrus Research Board in Visalia. She can be reached at this office at (559) 733-7497.

Meanwhile, the new California Minor Crops Council is seeking other interested commodity organizations that wish to be involved. Council members currently include a group of 13 California commodity groups that make up the California Agricultural Issues Forum. Members of the Forum include representatives from the following commodities: peaches, plums, nectarines, prunes, pears, cherries, melons, kiwifruit, avocados, citrus, strawberries, raisin grapes and table grapes.

Article by Lori Berger
Director of Technical Affairs
California Minor Crops Council
<lori@minorcrops.org>

WSSA "Herbicide for Minor Uses Committee"/IR-4 Project Initiative: Herbicide Screening Program in Minor Crops

At the meeting organized by "The Herbicides for Minor Uses Committee" of the Weed Science Society of America (WSSA), in Toronto, Canada, February 2000, all participants agreed that there is a need for more coordination to obtain valuable information on potential uses of new chemistry and reduced risk herbicides as well as new uses of old herbicides, prior to the decision making process for field residue data. Information on crop tolerances and weed efficacy in minor crops will be used to speed the process of herbicide registration for the most vulnerable crops.

As the result of this initiative, a significant amount of crop safety and product performance data has been collected from weed scientists across the country:

Robin Bellinder	NY
Carl Bell	CA
Ed Beste	MD
Larry Binning	WI
Lyn Brandenberger	TX
Rick Boydston	WA
Prasanta Bowmik	MA
Stanley Culpepper	GA
Jeffrey Derr	VA
Douglas Doohan	OH
Roy Elerbrock	NY
Gordon Harvey	WI
Tomas Lanini	CA
Scott Nissen	CO
Steve Fenimore	CA
Howard Harrison	SC
Bradley Majek	NJ
John Masiunas	IL
Robert McReynolds	OR
Tod Mervosh	CT
Charles Mullins	TN
David Monks	NC
Sandra McDonald	CO
Timothy Miller	WA
Robert Parker	WA
Edvard Peachey	OR
Tom Rabay	MN
Richard Smith	CA
Ron Talbert	AR
Kai Umeda	AZ
Henry Wilson	VA
Mark VanGessel	DE
Bernie Zandstra	MI
Richard Zollinger	ND

All available crop tolerance data are compiled in tables, by crop groups, and will be distributed to the weed researchers for comments and further update. The "Summary of Minor Crops Tolerances to Herbicides" will be discussed during the Weed Science Meeting organized by WSSA " Herbicide for Minor Uses Committee" on September 13, 2000, at the Food Use Workshop, Orlando, Florida. If you have data that would support herbicide registrations on minor crops, or would like more information regarding this program, please contact Marija.

Article by Marija Arsenovic

Herbicide Screening Program in Vegetables/2000

This year the IR-4 New Technology Team (NTT) is funding a new project entitled "Herbicide Research program in Cucurbits and Spinach". The objective of the program is to collect performance (crop safety and efficacy) data from all IR-4 regions to support herbicide registrations in minor crops. Principal investigators will collect data on crop tolerance, weed efficacy and yield. A complete report summarizing material/methods and results (including statistical analysis) will be submitted to IR-4 Headquarters.

Additionally, IR-4 NTT protocols have been distributed to other weed scientists involved in weed management in vegetable crops. The idea is to encourage weed scientists to include some herbicide treatments in their herbicide screening program.

Field Evaluation of Herbicides in Cucurbits: The newer and existing products being evaluated in cucurbits are: Authority®/sulfentrazone, Devrinol®/napropamide, Dual® Magnum/s-metolachlor, FOE® 5043/flufenacet, Outlook®/s-dimethenamid, Resource®/flimiclorac, Sempra®/halosulfuron, Staple®/pyrithiobac and Valor®/flumioxazin.

Principal investigators participating in program include:
Robin Bellinger, NY/cucumbers, pumpkins, summer and winter squash

Continued on Page 23

Herbicide Screening Program in Vegetables/2000

Continued from Page 22

Larry Binning and Bruce Michaelis, WI/winter squash and pumpkins
Howard Harrison, SC/cucumbers and watermelons
Bradley Majek, NJ/cucumbers, cantaloupes, pumpkins, summer and winter squash
Robert McReynolds, OR/cucumbers and winter squash
David Monks and Roger Batts, NC/watermelons, cucumbers and yellow squash
Charles Mullins, TN/summer squash and pumpkins
Bill Stall, FL/muskmelons and cucumbers
Bernie Zandstra, MI/cucumbers, pumpkins and winter squash.

Field Evaluation of Herbicide in Spinach: Herbicides being evaluated include Devrinol®/napropamide, FOE® 5043/flufenacet, Outlook®/s-dimethenamid, Starane®/Vista®/fluroxypyr and UpBeat®/triflusulfuron. Principal investigators participating in the spinach project include: Robin Bellinger/NY, Larry Binning and Bruce Michaelis/WI, Bradley Majek/NJ, Robert McReynolds/OR, David Monks and Roger Batts/NC, Ron Talbert/AR and Bernie Zandstra/MI.

We thank everyone for their cooperation.

Article by Marija Arsenovic

New IR-4 Satellite Laboratory at Texas A&M University

IR-4 welcomes Dr. Scott Senseman and the Texas A & M Herbicide Chemistry and Environmental Fate Laboratory into the program as a Satellite Laboratory. Because of the growing need for safer and more effective crop protection tools and IR-4's responsibility to minor crop growers, we need GLP compliant analytical laboratories to assist in magnitude of residue studies.

Dr. Senseman received his Ph.D. at the University of Arkansas in Weed Science. He joined Texas A & M University in 1995 as an Assistant Professor. He is currently an Associate Professor in the Department of Soil and Crop Sciences.

Currently at the laboratory, they have 3 GC units with FID, ECD, NPD & MSD capabilities, and one LC-UV instrument. They also have the capability of conducting radiotracer studies (C^{14}).

Scott's Laboratory is involved in GLP water analysis for environmental monitoring, and is very interested in conducting magnitude of residue studies for IR-4. Additionally, Scott has experience with the analysis of Metolachlor. Because of his experience with this compound, he will start in the IR-4 system by directing the analytical phase of the Metolachlor/Sesame study. If you have any questions regarding Dr. Senseman's Laboratory and its capabilities, please contact Dr. Senseman at (409) 845-5375, or by e-mail at s-senseman@tamu.edu.

Article by Johannes Corley

New Food Use Requests Received and Assigned PR#s To 7892, Inclusive

Commodity	Pesticide	PR#	State(s)
Acerola	Abamectin	7836	FL
	Fenpropathrin	7872	FL
Alfalfa	Spinosad	7889	TX
	Tebufenozide	7891	TX
Asparagus	Cyprodinil + Fludioxonil	7839	MI
Avocado	Fenpropathrin	7861	FL
Blueberry	Fenpropathrin	7815	MI
	Thiocloprid	7813	MI
Broccoli	Fenhexamid	7894	WA
Cabbage	Endosulfan	7843	TX
	Pyriproxyfen	7885	TX
	Spinosad	7890	TX
Cabbage, Chinese	Azoxystrobin	7838	TX
	Myclobutanil	7877	TX
Cabbage, Chinese (Bok Choy)	Dimethomorph	7841	TX
Canistel	Abamectin	7828	FL
	Fenpropathrin	7862	FL
Carambola	Abamectin	7819	FL
	Fenpropathrin	7869	FL
Cantaloup	Fenhexamid	7895	WA
Cauliflower	Fenhexamid	7847	WA

Commodity	Pesticide	PR#	State(s)
Celery	Cyprodinil + Fludioxonil	7840	MI
Cherry	Thiocloprid	7812	MI
Cilantro	Myclobutanil	7878	TX
Collard	Myclobutanil	7879	TX
Corn (Sweet)	Pyridate	7883	NY
Cranberry	Nicosulfuron	7881	MA
	Rimsulfuron	7888	MA
	Triflusulfuron-Methyl	7892	MA
Cucumber	Fenhexamid	7853	WA
Dill	Myclobutanil	7880	TX
Echinacea	Imazapic	7873	IL,OK
	Oryzalin	7806	OK
	Pronamide	7805	OK
Fig	Propylene Oxide	7887	CA
Ginger	Paraquat	7824	HI
Ginseng	Fenhexamid	7846	MI
Grape	Acibenzolar	7816	MI
	Thiocloprid	7814	MI
Grapefruit	Belkute	7823	CA
Grasses (Pasture)	Spinosad	7810	GA
Grasses (Pasture, Rangeland)	Dicamba + Diflufenzopyr	7804	ND

New Food Use Requests Received and Assigned PR#s To 7892, Inclusive

Commodity	Pesticide	PR#	State(s)
Greens (Mustard)	Fenamidone	7845	FL
	Myclobutanil	7876	TX
Guava	Fenpropathrin	7866	FL
Guayule	Pendimethalin	7882	TX
Jaboticaba	Abamectin	7832	FL
	Fenpropathrin	7867	FL
Lemon	Belkute	7821	CA
Lettuce (Head & Leaf)	Fenhexamid	7854	WA
Lychee	Abamectin	7831	FL
	Fenpropathrin	7865	FL
Mango	Abamectin	7831	FL
	Fenpropathrin	7859	
Marjoram	Fenhexamid	7848	WA
Olive	Deltamethrin	7842	CA
Onion (Dry Bulb)	Pyriproxyfen	7886	TX
Orange	Belkute	7822	CA
Papaya	Acetamiprid	7837	FL
	Fenpropathrin	7856	FL
Passion Fruit	Abamectin	7835	FL
	Fenpropathrin	7871	FL
Peach	Thiocloprid	7811	MI

Commodity	Pesticide	PR#	State(s)
Pecan	Propylene Oxide	7803	GA
Persimmon	Abamectin	7834	FL
	Fenpropathrin	7870	FL
Pistachio	Benomyl	7893	CA
	Fenhexamid	7818	CA
	Trifloxystrobin	7855	CA
Rice	Maleic Hydrazide	7874	LA
Rosemary	Fenhexamid	7849	WA
Sage	Fenhexamid	7851	WA
Sapodilla	Abamectin	7827	FL
	Fenpropathrin	7860	FL
Sapote (Black)	Abamectin	7826	FL
	Fenpropathrin	7858	FL
Sapote (Mamey)	Abamectin	7829	FL
	Fenpropathrin	7863	FL
Small Grains	Spinosad	7807	NJ
Spinach	Endosulfan	7844	TX
	Pyriproxyfen	7884	TX
Squash	Fenhexamid	7852	WA
Star Apple	Abamectin	7825	FL
	Fenpropathrin	7857	FL

New Food Use Requests Received and Assigned PR#s To 7892, Inclusive

Commodity	Pesticide	PR#	State(s)
Strawberry	Acibenzolar	7817	MI
	Iodomethane	7875	CA
Sugar Apple	Abamectin	7830	FL
	Fenpropathrin	7864	FL
Sunflower	Zoxamide	7809	ND
Thyme	Fenhexamid	7850	WA
Tomato (GH)	Fenhexamid	7896	WA
Walnut	Propylene Oxide	7808	CA
Wax Jambu	Abamectin	7833	FL
	Fenpropathrin	7868	FL

Compiled by Diane Infante

Summary of IR-4 Minor Use Petitions and Petition Amendments Sent to *Industry* During the 2nd Quarter, 2000

Pesticide*	Site	PR. NO.	Requesting State(s)	Petition Type	Manufacturer
Fomesafen (H)	Bean (Dry)	5403	NY, MD, PA	Tolerance	ZENECA
Spinosad (I)	Pome Fruit	6714	CA	Tolerance	DOW
Ziram (F)	Tomato	D4089	FL, MS, TN, VA	Reregistration	ELF ATOCHEM, UCB
Dimethomorph (F)	Hops	6945	WA	Tolerance	AMERICAN CYANAMID
Hexythiazox (I)	Mint	6436	WA	Tolerance	GOWAN
Clopyralid (H)	Strawberry (Perennial)	5262	OR, NC, TN	Tolerance	DOW
Fosetyl-Al (F)	Blueberry	B4937 C4937	ME, MI, NJ, NC, OR	Amendment	AVENTIS
Clethodim (H)	Green Onion Leaf Lettuce Head & Stem Brassica	5224 6362 5215 5216	FL, CA, OR, PR, AR, NC, WA, TN, GA, ND, MS, WI, KY	Tolerance	VALENT
Halosulfuron (H)	Melon	6366 A6366	FL, WI, HI, NY, NJ, AR, MD	Tolerance	MONSANTO/GOWAN
Azoxystrobin (F)	Strawberry	6785	FL, NC, OH, GA, SC, OR, DE, IA, CA	Tolerance	ZENECA
Azoxystrobin (F)	Mint (Process)	6756	WA	Tolerance	ZENECA
Azoxystrobin (F)	Mint (Fresh)	6828	FL, HI	Tolerance	ZENECA
Azoxystrobin (F)	Watercress	6722	FL	Tolerance	ZENECA
Azoxystrobin (F)	Grasses (Seed Crop)	6690	OR	Tolerance	ZENECA
Ethephon (P)	Coffee	5489	HI	Tolerance	AVENTIS
Glyphosate (H)	Horseradish (Wiper)	A6704	IL, MD, NJ, WI	Registration	MONSANTO

Summary of IR-4 Minor Use Petitions and Petition Amendments Sent to *EPA* During the 2nd Quarter, 2000

Pesticide*	Site	PR. NO.	Requesting State(s)	Petition Type	Date Sent
Sulfentrazone (H)	Sunflower	6911	ND, KS	Tolerance	7 APR 00
Sethoxydim (H)	Herbs (Fresh), Lingonberry, Tropical Fruit	2063	CA, FL, OR, WI	Tolerance	11 APR 00
Kresoxim-Methyl (F)	Cucurbit Vegetables (Crop Group 9)	7055	TX, MI, GA, TN, AZ, NY, OR, CA, OK, SC, WI, NC	Tolerance	11 APR 00
Tebuconazole (F)	Sunflower	6414	ND, KS	Tolerance	14 APR 00
Bifenthrin (I)	Herbs (Greenhouse)	6641, 6642, 6643	GA	Tolerance	18 APR 00
Imidacloprid (I)	Turnip Greens	7802	CA, OR, TX, MS, OK, FL, OH, TN	Tolerance	18 APR 00
Tebuconazole (F)	Okra	6261	FL, TX, GA, TN, MS, SC	Tolerance	18 APR 00
Cryolite (I)	Mint	6428	WA	Tolerance	26 APR 00
Diflubenzuron (I)	Pear	6327	OR	Tolerance	1 MAY 00
Spinosad (I)	Pome Fruit and Foliage of Legume Vegetables	6714 7013 7273	CA, AR, TN, WA, ID	Tolerance	16 MAY 00

Summary of IR-4 Minor Use Petitions and Petition Amendments Sent to *EPA* During the 2nd Quarter, 2000

Pesticide*	Site	PR. NO.	Requesting State(s)	Petition Type	Date Sent
Prometryn (H)	Leaf Petioles	2480 6590	CA, NJ, OR	Tolerance	24 MAY 00
Pendimethalin (H)	Fruiting Vegetables	2741 2740 2219	AR, CA, GA, KY, MS, NC, NY, OK, PR, TN, TX, WA	Tolerance	24 MAY 00
Ferbam (F)	Cranberry	4092	MA, NJ, WA	Re-registration	12 JUN 00
Dimethomorph (F)	Hops	6945	WA	Tolerance	13 JUN 00
Phospholipid (P)	Select Crops	85B	WI	Extension of Temporary Tolerance	13 JUN 00
Cyfluthrin (I)	Southern Pea	5524	AL, AR, FL, GA, MS, OK, TN, TX	Tolerance	16 JUN 00
Diflufenzopyr + Dicamba Combo (H)	Corn (Sweet), Grasses	7376 7804	MN, ND	Tolerance	16 JUN 00
Carfentrazone (H)	Caneberry	6758	OR	Tolerance	19 JUN 00
Zinc Phosphide (R)	Snap Bean	2126	ID, IL, MN, OK, UT, WI	Tolerance	23 JUN 00

* F - Fungicide
H - Herbicide
I - Insecticide/Miticide
P - PGR
R - Rodenticide

Compiled by Bill Biehn

Communications 1

IR-4 SAES / ARS / REGIONAL LIAISON REPRESENTATIVES

Northeastern Region

NAME (Specialty Area)	State / Title	Telephone	Fax No.
Dr. David Soderlund (5)	Reg. Dir.	(315) 787-2364	(315)787-2346
Ms. Edith Lurvey (13)	Reg. Field Coor.	(315) 787-2308	(315) 787-2397
Dr. Inga-Mai Larsson-Kovach (10)	Reg. Lab. Coor.	(315) 787-2338	(315) 787-2284
Ms. Denise Snook (4)	Reg. QA Coor.	(315) 787-2411	(315) 787-2397
Dr. Richard A. Ashley (3)	CT	(860) 486-3438	(860) 486-0682
Dr. Susan P. Whitney (5)	DE	(302) 831-8886	(302) 831-3651
Dr. James Allen (1)	DC	(202) 274-7140	(202) 274-7119
Dr. David E. Yarborough (6)	ME	(207) 581-2923	(207) 581-2941
Dr. James J. Linduska (5)	MD	(410) 742-8788	(410) 742-1922
Dr. Frank Caruso (9)	MA	(508) 295-2212	(508) 295-6387
Mr. William G. Lord (3)	NH	(603) 862-3203	(603) 862-2717
Dr. Gerald M. Ghidiu (5)	NJ	(856) 455-3100	(856) 455-3133
Ms. Edith Lurvey (13)	NY (Geneva)	(315) 787-2308	(315) 787-2397
Dr. William Smith (5)	NY (Ithaca)	(607) 255-1866	(607) 255-3075
Dr. George Good (6)	NY (Ithaca)	(607) 255-1866	(607) 255-3075
Dr. John M. Halbrendt (7)	PA	(717) 677-6116x3	(717) 677-4112
Dr. David B. Wallace (9)	RI	(401) 874-2967	(401) 874-4017
Dr. A.R. Gotlieb (9)	VT	(802) 656-2630	(802) 656-4656
Dr. Rakesh Chandran (13)	WV	(304) 293-6131	(304) 293-6954
Dr. Ralph E. Webb (5)	MD, USDA-ARS	(301) 504-8262	(301) 504-8190
Dr. James C. Locke (9)	MD, USDA-ARS	(301) 504-6413	(301) 504-5096

Southern Region

NAME (Specialty Area)	State / Title	Telephone	Fax No.
Dr. Maurice Marshall (1)	Reg. Dir.	(352) 392-1978/405	(352) 392-1988
Dr. Charles W. Meister (9)	Reg. Field Coor.	(352)392-2399/412	(352) 392-1988
Ms. Jau W. Yoh (10)	Reg. Lab. Coor.	(352)392-1978/407	(352) 392-1988
Mr. Samuel Fernando (9)	Reg. QA Coor.	(352)392-1978/419	(352) 392-1988
Dr. Charles Gilliam (6)	AL	(334) 844-3045	(334)844-3131
Dr. Ronald E. Talbert (13)	AR	(501) 575-2657	(501)575-3975
Dr. Charles W. Meister (9)	FL	(352)392-2399/412	(352) 392-1988
Dr. Stanley Culpepper (13)	GA	(912) 386-3194	(912)386-7308
Dr. William Nesmith (9)	KY	(606) 257-3991	(606)323-1961
Dr. Mary Grodner (5)	LA	(225) 388-2180	(225)388-2257
Dr. Clarence H. Collison (5)	MS	(601) 325-2085	(601)325-8837
Dr. David Monks (13)	NC	(919) 515-5370	(919)515-7747
Mr. Marty New (5)	OK	(405) 744-5526	(405)744-6039
Dr. Nilsa M. Acin (10)	PR	(787) 753-2712	(787)753-2712
Dr. Robert G. Bellinger (5)	SC	(864) 656-5042	(864)656-5065
Mr. Bill Shamlyeh (9)	TN	(865) 974-7135	(865)974-4744
Dr. Rodney L. Holloway (5)	TX	(409) 845-3849	(409)845-6251
Dr. Michael J. Weaver (9)	VA	(540) 231-6543	(540)231-3057
(RESERVED)	VIRGIN ISLANDS	----------	----------
Dr. Alvin Simmons (5)	SC, USDA-ARS	(843) 556-0840	(843)763-7013
Dr. Alva W. Johnson (7)	GA, USDA-ARS	(912) 386-3372	(912)386-3437
Dr. Howard F. Harrison (13)	SC, USDA-ARS	(843) 556-0840	(843)763-7013
Mr. Tom Hendricks (10)	GA, USDA-ARS	(912) 387-2392	(912)387-2352

Northcentral Region

NAME (Specialty Area)	State / Title	Telephone	Fax No.
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Mr. Jim McFarland (4)	Reg. QA Coor.	(530) 752-3496	(530) 752-3394
Dr. Donald E. Carling (9)	AK	(907) 746-9470	(907) 746-2677
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Dr. Ross Miller (5)	Guam	(671) 735-2141	(671) 734-4600
Dr. Michael K. Kawate (1)	HI	(808) 956-6008	(808) 956-9675
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(RESERVED)	NV	----------	----------
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SPECIALTY AREA KEY

(1)	Biochemist	(6)	Horticulturist	(11)	Soil Scientist
(2)	Biologist	(7)	Nematologist	(12)	Toxicologist
(3)	Botany / Plant Scientist	(8)	Pesticide Coordinator	(13)	Weed Scientist
(4)	Chemist	(9)	Plant Pathologist		
(5)	Entomologist	(10)	Residue Chemist		

6/23/00

Communications 2

IR-4 SAES / ARS / REGIONAL LIAISON REPRESENTATIVES (e-mail)

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SPECIALTY AREA KEY

(1)	Biochemist	(8)	Pesticide Coordinator
(2)	Biologist	(9)	Plant Pathologist
(3)	Botany / Plant Scientist	(10)	Residue Chemist
(4)	Chemist	(11)	Soil Scientist
(5)	Entomologist	(12)	Toxicologist
(6)	Horticulturist	(13)	Weed Scientist
(7)	Nematologist		

NOTE:
1 = number one
l = lower case letter L

6/23/00

Center for Minor Crop Pest Management
IR-4 Headquarters

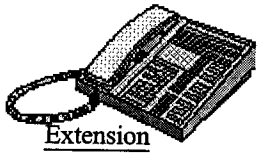
Communications 3

Web Site: http://www.cook.rutgers.edu/~ir4

FAX No. 732-932-8481

Telephone Extensions - IR-4 Direct

The following is a list of telephone extensions for Headquarters personnel.



732-932-9575

Name	Extension
Marija Arsenovic	609#
Jerry Baron	605#
Bill Biehn	603#
Josh Brashier	624#
Michael Braverman	610#
Johannes Corley	611#
Keith Dorschner	615#
Cheryl Ferrazoli	601#
Kathryn Hackett-Fields	619#
Bob Holm	604#
Diane Infante	620#
Dan Kunkel	616#
Betty Lovuolo	617#
George Markle	606#
Jack Norton	612#
Laurie O'Reilly	608#
Fred Salzman	625#
Ken Samoil	614#
Pat Sarica	618#
Carla Servellon	626#
Van Starner	621#
Judy Streisand	600#
David Thompson	613#
Tammy White	607#

Note: Press "*8" for voice mail options. For example, to transfer from one extension to another, press *8, then enter the three digit extension followed by the # sign.

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Communications - 4

(phone/fax/e-mail not listed elsewhere in the Newsletter)

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2000 IR-4 Newsletter Schedule

Issue	Call for Articles	Articles Due COB*
31:3	1 SEP 00 (Friday)	8 SEP 00 (Friday)
31:4	1 DEC 00 (Friday)	8 DEC 00 (Friday)

* COB = Close of business day on East Coast (1630)

FIRST ANNOUNCEMENT

April 1, 2000

Interregional Research Project No. 4
Center for Minor Crop Pest Management

WHAT:	IR-4 Food Use Workshop
WHEN:	September 12-14, 2000
WHO SHOULD ATTEND:	State and Federal research scientists, extension personnel, commodity growers, and agrichemical company personnel are **encouraged to attend***.
WHY:	Input from the people who need minor use pest control products is essential to IR-4's prioritization of research projects.
LODGING:	$77.00 plus tax for single/double room per night at the Grosvenor Resort Hotel, Downtown Disney, Orlando, FL. **You must register before August 10, 2000 to receive this low rate!!** Call the hotel directly at (800) 624-4109 and mention you will be attending the USDA/IR-4 Workshop.
WORKSHOP REGISTRATION:	Pre-register by August 10 to receive complete meeting materials to review in advance. Pre-registration fee is $50.00; On-site registration is $75.00. Registration fee includes Continental Breakfast daily (7:00 - 8:00 am). Call Cheryl Ferrazoli at IR-4 Headquarters - 732-932-9575 ext. 601.

*** This notice is not intended to imply a commitment for travel funding assistance by IR-4.**

Technology Centre of New Jersey
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