Forward Motion

The IR-4 Project

2009

IR–4 Annual Report





Dear IR-4 Friends,

On behalf of the IR-4 Project Management Committee, I want to thank you for your continued support of the IR-4 Project. Through the collective work of our IR-4 co-workers at the field sites, regional field offices, analytical laboratories and at IR-4 Headquarters we have achieved another successful and productive year in 2009. Our mission remains to facilitate the registration of effective pest management technology for use by the growers of specialty crops and minor uses. IR-4's success could not have occurred without the contributions of many. This list includes USDA who provides funding and scientific contributions; the State Agricultural Experiment Stations who provide direct funding and hosting IR-4 field centers, analytical laboratories and management offices as well as their research and extension scientists who participate in IR-4 activities; the crop protection industry that provides access to their products, technical support and funding; Agriculture and Ag-Food Canada that cooperates with IR-4 on research projects of mutual interest; and regulatory partners at the US Environmental Protection Agency (EPA), Canada's Pest Management Regulatory Agency and California Department of Pesticide Registration who provide guidance and review IR-4 submissions. IR-4 also thanks the members of the IR-4 Commodity Liaison Committee and the Minor Crop Farmers Alliance for their guidance and willingness to articulate IR-4's funding needs to Congress.

Once again, the IR-4 Project had a phenomenal year in providing deliverables to stakeholders. Data from the IR-4 Food Program allowed the EPA to establish **219** permanent pesticide tolerances on **32** chemicals in 2009. Using crop groupings and other extrapolations, these tolerances support **952** likely new use registrations with conventional pesticide products. IR-4's research efforts also supported **3** biopesticide products which translated into **7** new biopesticide uses on food crops resulting in **959** potential new registrations on food crops in 2009 from IR-4 activities. In the Ornamental Horticulture Program, data supported **6** registration decisions. These IR-4 supported successes impacted **614** ornamental plant species.

Many activities are on-going to sustain future deliverables. In 2009, IR-4 submitted **126** pesticide tolerance petitions involving **36** chemicals to EPA. IR-4 also submitted to EPA proposals to expand the Herb and Spice group. Additionally, the Food Program conducted **553** field trials associated with **109** high priority studies. Sixteen of these residue studies were conducted in cooperation with the Pest Management Centre (PMC) of Agriculture and Ag-Food Canada. Canada served as Study Director for 3 of the harmonized joint projects. All residue studies are conducted in compliance with federal regulations. Included in compliance activities are the efforts of the IR-4 Quality Assurance Unit which conducted **209** field and **72** analytical in-life inspections. Additionally, they audited **582** field data books, **64** analytical summary reports and **69** final/amended reports. The IR-4 Project also conducted **36** efficacy/crop safety trials to develop "value" data to support specialty crop/minor use registrations.

The IR-4 Ornamental Horticulture program submitted **16** data packages of ornamental data to the registrants. Additionally IR-4 conducted **1212** trials with greenhouse and field ornamentals crops in support of future registration decisions.

The Biopesticide Program funded **34** research proposals to provide data to support expansions on a number of biopesticide registrations. The program funded **4** Early Stage, **20** Advanced Stage and **10** Demonstration Stage projects

IR-4 hosted workshops in 2009 for both the Food and Ornamental Horticulture programs with **175** and **105** stakeholder/participants, respectively, setting future research priorities. Preliminary research programs are planned with IR-4 intending to have a slightly larger research effort in both food and ornamental crop research during 2010.

IR-4 spent a significant amount of time in 2009 planning for the future. It started with a Strategic Planning Conference in December 2008 where stakeholders had an opportunity to provide suggestions for future directions that was integrated into ***"A Strategic Plan for IR-4 2009-2014"*** that was finalized in April. This plan set the foundation to strengthen the existing core food, ornamental and biopesticide programs by enhancing them with

additional efficacy testing, management of invasive species that attack specialty crops, activities that reduce or eliminate trade barriers caused by pesticide residues and support for organic specialty crop production. The Strategic Plan also included a new cooperative initiative to provide regulatory assistance to facilitate the registration of pesticides to manage arthropod pests of medical concern. Many of the mission enhancements to IR-4 are further discussed in this document.

The new IR-4 Strategic Plan, along with activities of the IR-4 Project, was reviewed by a panel of experts during May. This Peer Review, sponsored by CSREES, was intended to look at the structure and function of IR-4 and ways IR-4 could do a better job serving the needs of its primary stakeholders. This review was very complementary to IR-4. However, the panel did have some solid recommendations on how to further improve IR-4. These recommendations are currently being implemented.

The Peer Review was a critical step in the comprehensive reauthorization process of IR-4 by USDA and the State Agricultural Experiment Stations. By the end of the calendar year, 2009, a detailed proposal to renew IR-4 was ready for submission to the State Agricultural Experiment Station Directors.

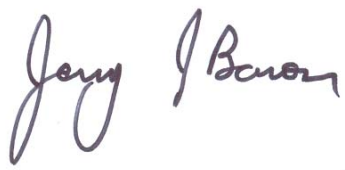
IR-4 continues to bring significant value to specialty crop growers. In 2007, The Center for Economic Analysis at Michigan State University first published a report noting IR-4's food program contributes $7.7 billion annually to the gross domestic product (GDP). A 2008 report by this same group found the IR-4's ornamental horticulture program provides an additional $1.2 billion to the GDP. This magnitude of return on tax payer investment data continues to give reason for additional USDA funding. And for the third year in a row, Congress has provided IR-4 with increased funding; funding for IR-4 through the National Institute of Food and Agriculture (NIFA) sources was increased by $180,000 to $12.18 million. In addition to the above, IR-4 continues to successfully compete for additional grants. In 2009, IR-4 was awarded three grants through USDA for international activities and public health pesticides.

There are challenges facing IR-4 and future success in providing growers of specialty crops and minor use stakeholders new registrations. Regulatory uncertainties with many chemical and biopesticides will continue as EPA implements the provisions on several court decisions. Safety factors to provide for additional protections for certain populations could likely limit some registrations. With that, it is extremely important that IR-4 continue to work closely with EPA and others to select the most effective pest management products for IR-4 sponsored studies with the lowest risk.

IR-4 hopes to expand our communication of its successes and challenges to stakeholders. In addition to the traditional newsletter and webpage (www.IR4.rutgers.edu), IR-4 has established a presence on Facebook. We are using the newest technologies to broaden our reach to stakeholders.

In closing, we anticipate another successful and productive year for IR-4 in 2010. We again thank all of the participants in the IR-4 Project for their contributions to current and future success. Please contact me (jbaron@aesop.rutgers.edu) if I can provide any assistance.

Sincerely yours,



Executive Director
The IR-4 Project

ANNUAL REPORT OF THE IR-4 PROJECT (NRSP-4/IR-4)
January 1, 2009 - December 31, 2009

PROJECT

National Research Service Project No. 4 (NRSP/IR-4) - Specialty Crops Pest Management
January 1, 2009 to December 31, 2009.

COOPERATING AGENCIES AND PRINCIPAL LEADERS

The IR-4 Project has close working associations with commodity growers/commodity organizations, the state agricultural experiment stations/land grant university system, the crop protection industry, the United States Department of Agriculture (including Agriculture Research Service, Foreign Agriculture Service and the National Institute of Food and Agriculture), US Environmental Protection Agency, the Department of Defense-Deployed Warfighter Protection Program, California's Department of Pesticide Regulation and Canada's Pest Management Regulatory Agency as well as Pest Management Centre in Agriculture and Agri-Food Canada to provide the latest pest control tools to US specialty crop growers. Cooperating agencies, principal leaders of the project, technical managers and IR-4 State and Federal Liaison Representatives are shown in Attachment 1.

Background

The IR-4 Project was organized in 1963 by the Directors of the State Agricultural Experiment Stations (SAES) to facilitate regulatory clearances for crop protection chemicals on specialty or minor food crops (fruits, vegetables, nuts, herbs, etc) as well as minor pesticide uses on major crops (corn, soybean, cotton, small grains, etc.). The companies involved in developing, registering and marketing crop protection chemicals do not view the relatively small markets associated with specialty crops and minor uses as a priority business objective because of the limited potential return on investment.

In 1977, IR-4 expanded its objectives to include registration of pest control products for the protection of nursery, floral and Christmas trees. In 1982 the objective to support biopesticides was added. For all three objectives (Food, Ornamental Horticulture and Biopesticide Programs) IR-4 provides national coordination, technical guidance and funding for field trials and laboratory expertise to develop residue and other appropriate data required by the US Environmental Protection Agency (EPA) and the crop protection industry to register the minor uses.

The IR-4 Project is funded by USDA in partnership with the SAES. The majority of USDA funding for the IR-4 Project comes through the National Institute of Food and Agriculture (NIFA-formerly called Cooperative State Research Education and Extension Service). The Agriculture Research Service (ARS) established a companion minor use program in 1976 to provide further program support. Recently, USDA-Foreign Agriculture Service (FAS) has provided IR-4 resources to work on international activities to support specialty crop exports. The SAES contributes financial resources through Multi-State Research Funds and a significant amount of in-kind contributions by housing IR-4 Field Research Centers, Analytical Laboratories and management offices throughout the United States. The crop protection industry also contributes direct financial resources as well as significant in-kind resources.

In 2009, IR-4 approved a new strategic plan. In this plan, IR-4 intends to enhance the activities in the three mission areas, food crops, ornamental horticulture and biopesticides. In the food program, we added a plan to increase the effort to ensure that growers can use the registrations that IR-4 facilitated. This includes the development of additional efficacy data to encourage the companies to actively market new uses. Additionally, IR-4 will aid in the harmonization of pesticide use and country-specific Maximum Residue Levels (MRLs) between US and its global trading partners. In the ornamental area, more emphasis is being placed on efficacy testing, including testing of new products to manage invasive plant pests. The biopesticide mission is enhanced to support pest management tools for use in crops destined for organic markets. Finally, IR-4 added a new cooperative project with USDA-ARS and the Department of Defense's Deployed Warfighter Protection Program to provide regulatory support for public health pesticides.

Further details on the IR-4 Project can be found on the IR-4 Project's website: http://ir4.rutgers.edu

Food Program

The regulatory approval of safe and effective crop protection chemicals on food crops continues to be the central objective of the IR-4 Project. IR-4 is committed to provide the support required to give growers the tools they need to be successful and competitive. IR-4 most often develops residue data to support new registrations. However, the need for product performance data has become more common over the past few years. This is mainly due to the companies requesting some efficacy and/or crop safety data prior to registration as IR-4 has continued to expand crop groups and extrapolate the results from residue studies.

Research Activities

Since 1963, IR-4 stakeholders have submitted **10,542** requests for assistance to the IR-4 Food Program. Of these, **676** are currently considered researchable projects, while the remainder have been addressed through previous research and regulatory submissions or cannot be addressed at this time. In 2009, **282** new requests were submitted by various stakeholders.

The potential researchable projects for 2009 were prioritized in September, 2008 at the IR-4 Food Use Workshop, in Sacramento, CA. Based on the outcome of this workshop and other priority setting mechanisms, IR-4 scheduled **109** studies consisting of **553** field trials. The specific studies including the test chemical and crop, field trials and research cooperators in 2009 are shown in Attachment 2.

Field trials are assigned to IR-4 Field Research Centers and sample analyses to Analytical Laboratories at the SAES or USDA-ARS. When necessary, other cooperating facilities or contractors are utilized to ensure projects are completed in a timely manner. In most studies, the chemical is applied in the field in a manner that simulates proposed grower use of the product on the target specialty crop. When the crop is at the appropriate stage, samples of the crop are collected and shipped to the analytical laboratory where the amount of chemical remaining in or on the crop is determined. Field and laboratory data from this research are compiled in a regulatory package and submitted to the EPA to request a pesticide tolerance or MRL.

Submissions and Success

IR-4 submitted data for **109** IR-4 projects along with **17** crop group requests for a total of **126 submissions** consisting of **36** chemicals to EPA and/or industry to support new registrations, label changes, or re-registration (see Attachment 3). EPA has challenged IR-4 to increase efficiency by bundling as many uses as possible for each chemical into each submission. IR-4's response to this request is reflected in IR-4 bundles that continue to get larger and in 2009 there were no repeat submissions for the same active ingredient. Some of the submissions were bundled with residue data from as many as 11 crops/crop fractions. This bundling allows EPA to make the most efficient use of their resources for each review. IR-4 also initiated a new timeline strategy in 2009 to more efficiently bundle submissions. The new strategy will be to include as many uses as possible for a given chemical within a year. If work for a given chemical occurs over two years, then studies for both years will be bundled into the same submission. As noted above, bundling saves EPA resources, including science review time and *Federal Register* drafting and publication costs. IR-4 is also working with Registrants to coordinate submissions for a given chemical.

EPA established a total of **219** permanent tolerances in 2009 based on IR-4 submissions. This continues to account for over 50% of all EPA new tolerances established on already registered products. These tolerances, considering crop grouping and crop definitions, will support up to **952** new specialty crops on product labels. A complete list of these new uses can be found in Attachment 4. In total, EPA reviewed **32** chemistries for IR-4 in 2009, which compares to **33** in 2007 and **41** in 2008. The 952 registrations in 2009 bring the IR-4 46 year total to **13,008**.

A listing of the IR-4 projects in the queue for future submission to EPA is included as Attachment 5. It is expected that approximately 50% of EPA approvals in future years will continue to be associated with IR-4 submissions. EPA posts their Multi-Year work plan that includes IR-4 pending submissions at: http://www.epa.gov/opprd001/workplan/newuse.htm. IR-4 submissions are generally reviewed by EPA and a tolerance established within a 15 month review timeline.

IR-4 continues to support EPA's goal of encouraging the use of pesticides that pose less risk to human health and the environment compared to existing conventional alternatives. Since EPA places a high priority on assisting

growers in transitioning to reduced risk approaches for pest management and tracks that progress closely, IR-4 re-established its reduced risk program and made **16** reduced risk requests of EPA in 2009.

Regulatory Compliance

Good Laboratory Practice Standards (GLP's as noted in Chapter 40, Code of Federal Regulations, Part 160) compliance is paramount to the success of the IR-4 Project's Food Program. Key components of compliance are the activities of the IR-4 Project's Quality Assurance Unit (QAU). The QAU continues to provide monitoring and support to cooperating scientists throughout the United States. Audits of facilities and ongoing field and laboratory procedures provide assurance that IR-4's data will be accepted by the crop protection industry and EPA.

The Annual QA Planning Meeting was held on March 10-11, 2009 in Gainesville, FL. At this meeting, the audit plan for 2009 was created. For 2009, regular inspections included **30** facility, **209** field in-life, **72** analytical in-life, **64** analytical summary report/data audits and **582** field data book audits. During the 2009 calendar year, **69** final reports and amended reports were audited.

In addition to their standard duties, members of the IR-4 QAU were involved in EPA GLP compliance inspections. Six IR-4 participating testing sites were audited in 2009 by the EPA for GLP compliance and data integrity. A total of **107** IR-4 related facility inspections for GLP compliance have occurred since April 27, 1997.

Crop Grouping Initiative

Crop grouping enables the establishment of residue tolerances for a group of crops based on residue data from representative crops from the group or subgroup. The IR-4 Project, with support from the International Crop Grouping Consulting Committee (ICGCC), continues to lead an effort to update the EPA crop group regulation to not only incorporate "orphan" crops that are not members of a crop group, but also to develop new crop groups. The ultimate goal is to pursue a harmonized international crop grouping system to facilitate international Maximum Residue Levels (MRLs) and international trade.

The revised Herb and Spice crop group 19 was submitted to EPA by IR-4 in July, 2009. Analysis of Pome Fruit crop group 11 (submitted in 2006) and Stone fruit crop group 12 (submitted in 2007) was conducted by the assigned EPA HED scientist with input from the Canadian Pest Management Regulatory Agency (PMRA). These crop groups were then submitted to the EPA's Health Effects Division Chemistry and Safety Advisory Council (ChemSAC) and were reviewed in March, 2009 (Pome fruit) and July, 2009 (Stone fruit). Publication in the *Federal Register* of the revised crop groups (Fruiting Vegetables, Oilseed, Citrus and Pome Fruit) is expected in early 2010. IR-4 and the ICGCC are currently working on the creation of two new crop groups (Tropical and Subtropical fruit – edible peel and Tropical and Subtropical fruit – inedible peel) and revision of the Leafy Vegetables (except Brassica vegetables) crop group 4 and Brassica (cole) Leafy Vegetable crop group 5.

Efforts to harmonize crop grouping systems between the US and Codex Committee of Pesticide Residues (CCPR) continue with cooperative efforts between the US and the Netherlands for revisions in the Bulb Vegetable, Berries and small fruits, Edible Fungi, Fruiting Vegetables (except Cucurbits), Oilseed, Citrus Fruits, Pome Fruit and Stone Fruit Commodity groups. Proposed revisions to the Tree Nut group will also be presented at the April 2010 CCPR meeting in China. Also, the document "Draft Principles and Guidance on the Selection of Representative Commodities for the Extrapolation of MRLs to Commodity Groups" has been revised with comments and input from the Codex Electronic Working Group. This document will be agenda item 6(d) at the 2010 CCPR meeting.

Seed Technology Initiative:

IR-4 continued its seed treatment initiative in 2009 by exploring the potential of DuPont's new insecticide chlorantraniliprole on snap beans. Seed treatment with this product was shown to be efficacious against European corn borer. DuPont plans to follow up on these findings in 2010. No further IR-4 research is being planned at this point.

International Activities:

As global markets for US produced specialty crops continue to grow, so does IR-4's involvement with global harmonization of MRLs and other global issues. IR-4 continues to participate in global organizations that involve pesticide issues and commodity exports. In North America, IR-4 cooperates with Canada and its Minor Use Program. In 2009, **16** new cooperative projects were started that consisted of numerous field trials in both

countries. IR-4 also shares ornamental efficacy and crop safety data with Canada. There is good exchange of personnel; AAFC participated in IR-4 meetings and vice versa. The minor use joint review process (EPA/Canada's PMRA) continues to save resources since only one agency is reviewing the residue data; but more importantly, both agencies are establishing MRLs at the same level and at the same time to prevent trade irritants before they happen. IR-4 also made a number of data submissions to CCCPR that should support Codex MRLs in the future. These submissions included Indoxacarb, Methoxyfenozide and Buprofezin as well as other submissions of IR-4 data made by cooperating registrants. The crops supported by IR-4 are presented on the last page of Attachment 3.

At the request of EPA, IR-4 personnel are part of the US delegation to both the CCPR and Organisation for Economic Co-operation and Development (OECD) Working Group on Pesticides. IR-4 plays a key role on the OECD Expert Group on Minor Uses. Over the past several years a number of developed and developing countries have begun to establish minor use programs. Additionally, other countries are considering expanding existing programs. The knowledge and expertise of IR-4 is deemed useful to these countries as these minor use programs evolve and therefore, our assistance has been sought on occasion.

Following up on the successful Global Minor Use Summit, IR-4 will continue to work with other specialty crop programs throughout the world to reduce the data development burden on any single country and harmonize MRLs. IR-4 has received funding from USDA-Foreign Agriculture Service to conduct a global study examining the influence of geographic location on residues. This study will provide data and allow scientists to determine if geographic zone affects the ultimate residues in the test crop. For this study, premeasured vials of the four pesticide chemicals were transferred into identical application equipment and applied to tomatoes growing at 27 locations throughout the world. The tomato residue samples were harvested and residue analysis is ongoing.

Ornamental Horticulture Program

The Ornamental Horticulture Program continues to support an industry valued at over $16.9 billion in annual sales. This industry is quite complex because growers cover many diverse markets including flowers, bulbs, houseplants, perennials, trees, shrubs and more. These plants are grown and maintained in greenhouses, nurseries, commercial/residential landscapes, interiorscapes, Christmas tree farms, and sod farms.

Research Activities

In 2009, IR-4 conducted **1212** ornamental horticulture research trials to support registrations in the greenhouse, nursery, landscape, Christmas tree, and forestry industries. Of these **435** were efficacy trials designed to compare different products to manage pests and diseases and to measure the impact of growth regulators; the remaining trials were conducted to determine the level of phytotoxicity to crops with herbicides used to manage common weeds in and around nurseries. Please see Table 1 for a summary of research activities and Attachment 6 for a complete listing of 2009 field cooperators and Attachment 7 for research activities listed by project.

Table 1. Summary of IR-4's 2009 Ornamental Horticulture Program Research Activities.

Category	**2009**		
	Efficacy	Crop Safety	Total
Number of Studies (PR Numbers) with Planned Trials	326	483	809
Number of Trials	435	777	1,212

Submissions and Successes

During 2009, **16** data summaries were compiled based upon research reports submitted by researchers. See Attachment 8 for Abstracts from the individual reports. The reports compiled were Azoxystrobin Crop Safety and Efficacy, Clopyralid Crop Safety, Dimethenamid-p Crop Safety, Dimethenamid-p + Pendimethalin Crop Safety, EXC3898 Crop Safety, F6875 Crop Safety, Flumioxazin Crop Safety, Mesotrione Crop Safety, Oxyfluorfen Crop Safety, Pendimethalin Crop Safety, Phytophthora Efficacy, Sulfentrazone Crop Safety, Thrips Efficacy, V10142 Crop Safety, Whitefly Efficacy, and Woody Plant Branching Impact by PGRs. Data from 4,250 field trials contributed to the writing of these reports. Table 2 lists the number of trials by IR-4 Region that were used in the data summaries.

Table 2. 2009 Ornamental Horticulture Program Research Summaries.

Region	Number of Trials
North Central	378
North East	800
Southern	1,222
Western	958
USDA-ARS	882
Total	4,240

During 2009**, 2** label amendments were granted to add new crops partially based on IR-4 data submitted to manufacturers: Broadstar 0.25G VC1604 (flumioxazin) and Gallery 75DF (isoxaben). IR-4 data also contributed to **4** state registrations where efficacy or crop safety data were reviewed: Gallery 75DF (isoxaben), Pageant 38WG (boscalis + pyraclostrobin), Sedgehammer (halosulfuron), and Pylon (chlorfenapyr). Research for one product was terminated and a decision was made not to pursue registration: EXC3898. During 2009, Canada registered BroadStar (flumioxazin) and Sureguard (flumioxazin) partially based on data provided by IR-4. IR-4 data from **679** field trials contributed to these actions. This impacted **614** ornamental crops. See Table 3 for details.

Table 3. Ornamental Horticulture Program Contributions to 2009 Registrations.

Category	2009		
	Efficacy	Crop Safety	Total
New US EPA Product Registrations [a]	0	0	0
New International Registrations	0	2	2
US EPA Label Amendments [b]	0	2	2
State Registrations [c]	1	3	4
Research/Registration Terminations	0	1	1
Number of Trials Contributing to Registrations [d]	10	669	679
North Central	4	42	46
North East	0	98	98
Southern	4	202	206
Western	2	102	104
USDA-ARS	0	225	225
Number of Impacted Crops [e]	403	211	614

[a] New products for the ornamental horticulture industry based on data collected through IR-4 and submitted to manufacturers in previous years.

[b] Label updates on existing products for the ornamental horticulture industry based on data collected through IR-4 and submitted to manufacturers in previous years. In 2009, IR-4 data contributed to label updates on Gallery DF (isoxaben) and formulation change for BroadStar 0.25G (flumioxazin).

[c] State registrations and special local needs registrations on federally registered products for the ornamental horticulture industry based on data collected through IR-4 and submitted to manufacturers in previous years. In 2009, IR-4 data contributed to the registration of Gallery 75DF (isoxaben), and Pageant (pyraclostrobin + boscalid) in CA, an SLN for Sedgehammer (halosulfuron), and a 2ee state registration for Pylon (chlorfernapyr).

[d] The total number of trials where data was utilized for registrations.

[e] The number of impacted crops is an estimate of the total plant species grown commercially for ornamental uses impacted by the IR-4 data. For example, *Phytophthora cinnamomi* is known to infect 204 plant species. By adding *P. cinnamomi* to the Segway label, IR-4 data has impacted 204 crops.

Biopesticide and Organic Support Program

The IR-4 Biopesticide and Organic Support Program has the goal of facilitating the registration of crop protection products classified by EPA as Biopesticides. IR-4 has four major functions in the biopesticide arena including: (1) an “Early Stage” grants program to fund early stage biopesticide research proposals - for products whose core data packages have not yet been submitted to EPA; (2) an “Advanced Stage” grants program to fund advanced stage biopesticide research proposals - for products that have been registered by EPA or are in the registration process and additional data is needed to assist with expansion of the registration to new crops or to new pests; (3) a “Demonstration” grants program to fund large scale demonstration plots to gather information and provide outreach indicating that biopesticides can be a useful tool in pest management systems; and (4) a registration

assistance program – to provide small biopesticide companies with regulatory advice and petition preparation assistance.

Research Activities

The Biopesticide Research Program is in its twelfth year of competitive grant funding of projects, amounting to over $5 million in grants to researchers since its inception. In 2009, the biopesticide grant program funded 4 Early Stage, 20 Advanced Stage and 10 Demonstration Stage projects (See Attachment 9). These were conducted at 20 different universities and USDA research units and on 100 product-crop combinations. The demonstration stage grants were co-funded (over $140,000 from EPA) and co-reviewed by EPA and IR-4.

Submissions and Successes

In 2009, IR-4 submissions to EPA included amended volumes for acetic acid and *Trichoderma hamatum* 382, Section 3 submissions for Bacteriophage of *Clavibacter michiganensis* subsp. *michiganensis* in tomato, Tobacco Mild Green Mosaic Tobamovirus and *Aspergillus flavus* for AF36 on Corn and a Section 18 Emergency Exemption for 9,10 Anthraquinone in corn and rice. In addition, from efficacy research funded through the biopesticide grant program, there were 7 additions of crops to biopesticide labels (see Attachment 9).

The Biopesticide and Organic Product Label Database had over 28,000 hits and is undergoing continual updating. The label database was initially funded through an EPA Region 2 grant.

Impact

The successes, accomplishments and deliverables of the IR-4 Project have been documented by the Food Program and its associated initiatives, the Ornamental Horticulture Program and the Biopesticide and Organic Support Program. Without the existence of the IR-4 Project, fewer safe and effective crop protection chemicals and biological alternatives would be available for use on food and ornamental specialty crops.

The accomplishments of the IR-4 Project are many. Specialty crop growers often report on the impact of the IR-4 Project to their business. Some have said, “Without the IR-4 Project and what they provide, my farm would be out of business”. In an effort to capture a solid assessment of program value, in 2007, Michigan State University’s Center of Economic Analysis conducted an economic impact study of IR-4’s food use activities. Their assessment indicated that the efforts of the IR-4 Project add $7.7 billion dollars annually to the gross domestic product (GDP). In 2008, they conducted an economic analysis of IR-4’s ornamental horticulture program. They concluded this program adds an additional $1.2 billion annually to the GDP.

FY 2009 Appropriations and other funding

The IR-4 Project receives its funding from several sources. The majority of funding is directed through NIFA and ARS. There are also direct and in-kind contributions from the state agricultural experiment stations, grants from industry and grants from USDA-Foreign Agriculture Service (FAS).

The FY 2009 appropriation for the IR-4 Project through NIFA was increased to $12.0 million from the FY 2008 appropriation of $11.3 million. The amount appropriated to the USDA-ARS Minor Use Program remained at $4.0 million. The Directors of the state agricultural experiment stations, through the Multi-state Research Funds, provided the IR-4 Project with $481,182. USDA-Foreign Agriculture Service provided IR-4 with $249,000. A cooperative project between IR-4/Department of Defense-Armed Forces Pest Management Board/USDA-ARS provided $260,000 for regulatory support of public health pesticides. The commodity and crop protection industries were able to assist the IR-4 Project by providing approximately $1.2 million in grants. Total direct funding for the IR-4 Project during calendar year 2009 was approximately $18 million.

This value does not include the substantial in-kind contributions provided by the crop protection industry, commodity groups and state agricultural experiment stations. For example, many IR-4 research units are housed at state funded research stations. The host institutions contribute indirect and direct costs as leverage on the IR-4 funds. The crop protection industry always provides characterized test substance and analytical standards to be used in residue studies and they also provide significant technical assistance. Various commodity groups provide funding directed at specific research on new pest control tools critical for growers of their specialty crops.

Future Directions

IR-4 conducted a Strategic Planning Conference in December, 2008 to obtain stakeholder input on program directions for 2009 to 2014. This plan is the roadmap for IR-4 activities over the next five years and was designed to strengthen the existing core food, ornamental and biopesticide programs by enhancing them with additional efficacy testing, management of invasive species that attack specialty crops and activities that reduce or eliminate trade barriers caused by pesticide residues and support for organic specialty crop production. The Strategic Plan also included a new cooperative initiative to provide regulatory assistance to facilitate the registration of pesticides to manage arthropod pests of medical concern.

Activities in 2010

IR-4 will continue to seek input and technical guidance from all of its stakeholders, including state and federal agricultural scientists, state extension agents and specialists, commodity groups, growers, the crop protection industry, food processors, CDPR and the EPA to insure the program maintains its focus on important specialty crop needs. IR-4 goes through an extensive process, including priority setting workshops (2009 Food Use Workshop was conducted September 15 & 16 in Cleveland, OH) and reviewing proposals each year to obtain input on the most critical pest control needs of specialty crop producers; and to prioritize those research needs using committees of regional and national level agriculture experts to best match the program's resources with the current unmet needs.

Food Use Program research for year 2010 will consist of approximately **107** studies supported by **669** field trials. The numbers of IR-4 studies in 2009 and 2010 have been considerably higher compared to the past few years. This is because of increased resources provided from Congress and the larger number of studies only requiring one or two field trials. These "small studies" are triggered because of having to repeat field trials that were compromised because of inclement weather or EPA requiring additional data. The distribution of 2010 field trials within the IR-4 Project consists of 499 conducted by the IR-4 units associated with the state agricultural experiment stations, 119 conducted by USDA-ARS and 51 by Canada. The Canadian Minor Use Program will be fully managing 4 cooperative studies, including sponsorship, study director duties and report writing.

Ornamental Horticulture: In 2010, the research program will focus on high priority projects established at the 2009 workshop (October 6-8, Cleveland OH): bacterial efficacy, pythium efficacy, fungicide crop safety, scale insect efficacy, thrips efficacy and IPM strategies, insecticide crop safety, 2010 herbicide crop safety, early post emergence control, and liverwort efficacy. The 2010 research program also increased each regional coordinator's discretionary funds to sponsor research of regional interest. In 2010, the program will also tackle research on an invasive disease, gladiolus rust, through a USDA-APHIS grant.

For the 2010 **Biopesticide and Organic Support Program**, IR-4 received a total of 52 proposals requesting nearly $900,000. Out of the 52 proposals 9 are Early Stage, 33 are Advanced Stage and 10 are Demonstration Stage proposals. Final decisions on funded proposals will be made by February 2010.

International: IR-4 will continue to move forward assisting U.S. specialty crop growers to compete in international trade, by aiding in the harmonization of pesticide use and country-specific Maximum Residue Levels (MRLs) that often differ between the U.S. and its global trading partners. IR-4 remains active in global harmonization efforts of NAFTA, the Codex Committee of Pesticide Residues (CCPR) and Organisation for Economic Co-operation and Development.IR-4 has received a grant from USDA-Foreign Agriculture Service to allow IR-4 to take existing data, upgrade the submissions and provide the information to foreign regulatory authorities to establish MRLs to allow US growers less problems in the export of their produce. IR-4 research cooperators are expected to finish much of the field research and laboratory research with the global residue study in 2010.

PUBLICATIONS/PRESENTATIONS

Arsenovic, M., D.L. Kunkel, and J.J. Baron. 2009. IR-4 Project: Herbicide Registration Update (Food Uses). Proceedings Northeastern Weed Science Society, Volume 63, p. 89.

Arsenovic, M., D.L. Kunkel, and J. J. Baron. 2009. IR-4 Project: Update on Herbicide Registration. Proccedings WSSA, Volume 49, Abstract Number 490.

Barney, W., D.L. Kunkel, and J.J. Baron. 2009. The Use of Crop Grouping in International Maximum Residue Levels (MRLs) Harmonization. *Outlook on Pest Management*, 10, 229-231.

Braverman, M., D.L. Kunkel and J.J. Baron. 2009. International Regulatory Activities of the IR-4 Project and Their Impact on Pesticide Risk Reduction. 6th International IPM Symposium. Portland, OR.

Braverman, M. , J.J. Baron , D.L. Kunkel and V.R. Starner. 2009. Biopesticide Registration: What is the Pathway for Public Sector Researchers? First Asian PGPR Congress , Acharya NG Ranga Agricultural University , Hyderabad, India.

Braverman, M . 2009. International Regulatory Activities of the IR-4 Project and Their Impact on Pesticide Risk Reduction. The 2nd Thai-American Symposium on Plant Biomass, Biotechnology and Agriculture. Department of Botany, Faculty of Science, Chulalongkorn University, Bangkok , Thailand.

Braverman, M. 2009. Activities of IR-4's Biopesticide and Organic Support Program in Horticultural Pest Management. American Society for Horticultural Science. Annual Conference. St Louis, MO.

Braverman, M., J.J. Baron, D.L. Kunkel and V.R. Starner. 2009. Natural Product Based Biopesticides and the Organic Market. American Chemical Society 238th National Meeting and Exposition. Washington., DC.

Braverman, M. , S. Novack , W. Barney and M. Foo. 2009. IR-4 Global Residue Study. You Tube Training Video.
Part 1 http://www.youtube.com/watch?v=o23QUBJm7rc
Part 2 http://www.youtube.com/watch?v=OL8pZs6plro&NR=1
Part 3http://www.youtube.com/watch?v=g9B1rmcUXro
Part 4http://www.youtube.com/watch?v=Helt0xPiJ1s

Kunkel, D.L., J.J. Baron, M. Braverman, W. Barney, J. Corley and V.R. Starner. 2009. "Global Minor Use Activities and Progress", American Chemical Society Meeting, August 2009.

Ludwig, S., A. Taylor, & C.L. Palmer. 2009. Evaluation of insecticide treated seeds to control green peach aphids and diamondback moths. Annual Meeting of the Entomological Society of America. Indianapolis, IN.

Miller, S., and C.L. Palmer. 2009. The IR-4 Ornamental Horticulture Program Contributes $1.2 Billion to US GDP! IR-4 Newletter. Vol. 40 No. 3. July 2009.

Palmer, C.L., J. Baron, and E. Vea. 2009. Update on the 2008 Weed Science Research Program and 2008 Research Priorities. Proceedings of the 64th Northeastern Weed Science Society.

Palmer, C.L. 2009. IR-4: Current PGR Research and Future Priorities. Plant Growth Regulator Society of America Annual Meeting. Aug 5, 2009.

Palmer, C.L. 2009. IR-4: Your Ally Against Western Flower Thrips & Other Critters. Ohio Florist Association's Ohio Short Course. July 14, 2009.

Palmer, C.L. 2009. The IR-4 Project. Presentation to The North Central States Chapter of the Horticulture Inspectors Association. Oct 20, 2009.

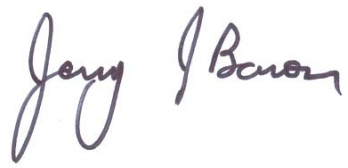
Palmer, C.L. 2009. The Ornamental Horticulture Program. Invited presentation at the IR-4 National Training Meeting. Feb, 2009.

Palmer, C.L. 2009. Spotlight on Ornamentals. IR-4 Newletter. Vol. 40 No. 3. July 2009.

Starner, V.R., J.J. Baron, D.L. Kunkel and S. Novack. 2009. Invited lecture "The IR-4 Project at Rutgers" 2/16/09 in Rutgers Entomology course "Agricultural Entomology and Pest Management" taught by Dr. George Hamilton.

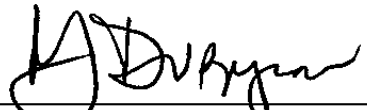
Starner, V.R. and J.J. Baron. 2009. Invited presentation "IR-4 Project Update from HQ" at the IR-4 Western Region SLR Meeting, Bozeman/Pray, MT, 3/17-18/09.

Approved by:



J.J. Baron, Executive Director
IR-4 Project, NJ Agricultural Experiment Station
Rutgers, The State University of New Jersey

M.R. Marshall, Chair,
IR-4 Project Management Committee
University of Florida



Mary Duryea, Chair, IR-4 Administrative Advisers
University of Florida

ATTACHMENT 1

Participants in the Process

Growers/Commodity Organizations/Food Processors – These are the primary customers for IR-4 Project services. A concerted effort is always made to seek input from growers/commodity group representatives for establishing research priority setting policies. Additionally, IR-4 has the IR-4 **Commodity Liaison Committee (CLC)**. The CLC provides input to the IR-4 Project Management Committee on overall operations and program direction. They are often effective communicators to Congress on the importance of the IR-4 Project and its deliverables to specialty crop agriculture in the United States. Members include:

Dr. Michael Aerts, Florida Fruit and Vegetable Association
Mr. Mark Arney, Nat'l Watermelon Promotion Board
Mr. Kirk Baumann, Ginseng Board of Wisconsin
Dr. Lori Berger, California Specialty Crops Council
Dr. Michael Bledsoe, Village Farms, L.P.
Dr. A. Richard Bonanno, Bonanno Farm Trust
Mr. Bruce Buurma, Buurma Farms Inc.
Mr. James R. Cranney, California Citrus Quality Council
Dr. Thomas G. Davenport, National Grape Cooperative
Dr. Brian R. Flood, Del Monte USA
Mrs. Ann E. George, Washington Hop Commission
Mr. Hank Giclas, Western Growers Association
Mr. John Keeling, National Potato Council
Mr. Phil Korson, Cherry Marketing Institute
Mr. Rocky Lundy, Mint Industry Research Council
Mr. Eric Maurer, Cheminova, Inc.
Mr. Reed Olszack, Tropical Fruit Growers of South Florida Inc.
Ms. Laura Phelps, American Mushroom Institute
Mr. Ray Ratto, Ratto Brothers
Ms. Lin Schmale, Society of American Florists
Mr. Todd Scholz, USA Dry Pea & Lentil Council
Dr. Alan Schreiber, Agriculture Development Group, Inc.
Dr. Marc Teffeau, American Nursery and Landscape Assoc.
Mr. Dave Trinka, MBG Marketing

Crop Protection Industry - Without the cooperation of the biopesticide and chemical companies who discover, develop, register, and market their new technologies, IR-4 would not be able to help specialty crop growers have availability to the newest crop protection tools. IR-4 personnel continue to have managerial and technical review meetings with the crop protection industry companies. In 2009, meetings were held with 30 different companies.

State Agricultural Experiment Stations/Land Grant Universities – The State Agricultural Experiment Stations are the cornerstone of the IR-4 Program. This group provides a limited amount of direct support ($481,182 through Multi-State Research Funds) plus a significant amount of resources via in-kind support by hosting and co-funding the IR-4 Field Research Sites, the IR-4 analytical laboratories and the IR-4 regional and national management offices. Specific acknowledgement goes to the directors of the SAES in CA, FL, MI, and NY that host regional IR-4 offices and NJ that hosts IR-4 Project Headquarters.

USDA (NIFA, ARS, FAS and APHIS) – NIFA and ARS provide the majority of the direct resources that IR-4 utilizes to operate. Additionally, numerous ARS personnel are directly involved in the IR-4 research effort at three analytical laboratories and 8 field research centers. FAS has been instrumental in the expansion of IR-4 to support IR-4 international activities. APHIS is cooperating with IR-4 on invasive species management and biotechnology registration.

Agriculture and Agri-Food Canada (AAFC) Pest Management Centre. The partnership between IR-4 and AAFC'S Pest Management Centre continued to flourish in 2009. There are numerous other cooperative projects

that are in the process of being completed and submitted to both countries' regulatory agencies. These projects are the culmination of year-round efforts to work cooperatively. Members of the AAFC Pest Management Centre routinely join IR-4 at meetings with the crop protection industry. Additionally, several AAFC team members attended the IR-4 Food Use and Ornamental Workshops as well as the National Research Planning Meeting to facilitate better cooperation.

EPA. - IR-4 continues to work closely with EPA to meet the needs of growers - to have a supply of safe and effective pest management tools. We continue to have Technical Working Group (TWG) meetings where EPA and IR-4 scientists discuss new regulatory approaches and ways to enhance the ongoing petition submission/review process, as well as ways to improve regulatory efficiencies. IR-4 continues to assist EPA in their effort to update data requirements, specifically the number and location of field trials. Working with EPA, **California's Department of Pesticide Regulation (CDPR) and Health Canada's Pest Management Regulatory Agency (PMRA)** participates in the many aspects of minor use pesticide registration. CDPR and PMRA have been active members of the TWG since 2000. They are productive contributors to the overall accomplishments as noted in the EPA section through domestic and NAFTA work share programs on IR-4 petitions. CDPR continues its commitment to provide residue chemistry reviews for certain IR-4 petitions. PMRA staff continued to support the activities of AAFC Pest Management Centre on research projects selected to partner with IR-4 for joint resource sharing. The minor use joint review process stipulates an expedited review timeline. It is expected that as many as 15 joint minor use reviews will eventually take place each year between the EPA and Canada's PMRA, with the final result of providing simultaneous registrations on new products in both countries. These efforts along with support from CDPR help to provide more resources to EPA resulting in an even higher number of IR-4 project completions.

IR-4 LEADERSHIP

Project Management Committee (PMC):

Dr. Jerry Baron, IR-4 Project Headquarters – IR-4 Project Executive Director
Dr. Douglas Buhler, Michigan State University – Administrative Advisor, North Central Region
Dr. Mary Duryea, University of Florida - Administrative Advisor, Southern Region
Dr. Robert Hollingworth, Michigan State University – Regional Director, North Central Region
Dr. Monte Johnson, USDA-CSREES
Mr. Rocky Lundy, Mint Industry Research Council – Commodity Liaison Committee Chair
Dr. Maurice Marshall, University of Florida - Regional Director, Southern Region & **PMC Chair**
Dr. Marion Miller, University of California, Davis - Regional Director, Western Region
Dr. Michael Parrella, University of California, Davis - Administrative Advisor, Western Region
Dr. Mark Robson, Rutgers University - Administrative Advisor, Northeast Region
Dr. Sally Schneider, USDA-ARS - Administrative Advisor, ARS
Dr. Paul Schwartz, Jr. USDA-ARS – Director Minor Use Program
Dr. David Soderlund, Cornell University - Regional Director, Northeast Region

IR-4 Project Headquarters (HQ)

IR-4 Headquarters is located at the 500 College Road East, Suite 201W, Princeton, NJ 08540; (732) 932-9575
Dr. Marija Arsenovic – Manager, Weed Science Activities
Ms. Tammy Barkalow – Assistant Director, Quality Assurance
Mr. Bill Barney – Manager, Crop Grouping
Dr. Jerry Baron – Executive Director
Dr. Michael Braverman – Manager, Biopesticides and Organic Support Program
Ms. Uta Burke – Administrative Support
Dr. Debbie Carpenter – Manager, Food Crop Registrations
Dr. Johannes Corley – Study Director/Research Coordinator
Dr. Keith Dorschner – Manager, Entomology Activities
Ms. Cheryl Ferrazoli – Administrative Support

ATTACHMENT 1 Continued

Ms. Jane Forder – Quality Assurance
Ms. Kathryn Hackett-Fields – Quality Assurance
Ms. Lori Harrison – Administrative Support
Ms. Kathryn Homa – Study Director and Research Coordinator
Ms. Diane Infante – Data Manager and Administrative Support
Dr. Daniel Kunkel – Associate Director, Food & International Programs
Mr. Raymond Leonard – Study Director/Research Coordinator
Dr. Karl Malamud-Roam – Manager, Public Health Pesticides Program
Ms. Sherri Nagahiro – Business Manager
Ms. Sherri Novack – Manager, Communications and Outreach
Dr. Cristi Palmer – Manager, Ornamental Horticulture Program
Ms. Bharti Patel – Quality Assurance
Mr. Kenneth Samoil – Study Director/Research Coordinator
Ms. Karen Sims – Administrative Support
Dr. Van Starner – Assistant Director, Research Planning & Outreach
Ms. Tracey Switek – Study Director and Research Coordinator
Dr. David Thompson - Manager, Plant Pathology Activities
Ms. Juliet Thompson – Administrative Support

Field Coordinators (Regional and ARS)

Ms. Edith Lurvey, Cornell University – Northeast Region
Dr. Satoru Miyazaki, Michigan State University – North Central Region
Dr. Michelle Samuel-Foo, University of Florida – Southern Region
Dr. Paul Schwartz Jr., USDA-ARS – ARS Office of Minor Use Pesticides
Ms. Rebecca Sisco, University of California, Davis – Western Region

Laboratory Coordinators (Regional and ARS)

Dr. Wlodzimierz (Wlodek) Borejsza-Wysocki, Cornell University – Northeast Region
Mr. Thomas Hendricks, USDA-ARS – Tifton, GA
Dr. Matt Hengel, University of California, Davis – Western Region
Dr. Wayne Jiang, Michigan State University – North Central Region
Ms. Emy Pfeil, USDA-ARS, - Beltsville, MD
Mr. T. Todd Wixson, USDA-ARS – Wapato, WA
Ms. Jau Yoh, University of Florida, Southern Region

Regional Quality Assurance Unit Coordinators

Ms. Barbara Anderson, Cornell University – Northeast Region
Dr. Zhongxiao (Michael) Chen, Michigan State University – North Central Region
Ms. Kathleen Knight, University of Florida –Southern Region
Mr. Jim McFarland, University of California, Davis – Western Region

Additional Technical Staff

Ms. Robin Adkins – Quality Assurance, Southern Region
Dr. Diane Bradway - Quality Assurance Consultant
Mr. Martin Beran – Associate Quality Assurance Coordinator, Western Region
Ms Mary Kay Erickson - Quality Assurance Consultant
Mr. Stephan Flanagan – Associate Field Coordinator, Western Region
Ms. Regina Hornbuckle – Quality Assurance USDA-ARS
Dr. Vince Hubert – Manager, IR-4 Satellite Laboratory, Washington State University

ATTACHMENT 1 Continued

Dr. Bryan Jensen – Quality Assurance Consultant
Mr. Kenneth Kanagalingam – Quality Assurance Consultant
Dr. Derek Killilea – Quality Assurance Consultant
Dr. Q. Li - Manager, IR-4 Satellite Laboratory, University of HI
Ms. Mary Lynn – Quality Assurance Consultant
Mr. John Obrist- Quality Assurance Consultant

State and Federal IR-4 Liaisons Representatives

Northcentral Region

Dr.	K.	Al-Khatib	KS (Food Crops)
Dr.	R.	Becker	MN
Dr.	S.	Clay	SD
Dr.	R.	Cloyd	KS (Ornamentals)
Dr.	D.	Doohan	OH
Dr.	D.	Egel	IN (Co-Liaison)
Dr.	R.	Groves	WI
Dr.	R.	Hartzler	IA
Dr.	D.	Heider	WI
Dr.	T.	Jordon	IN (Co-Liaison)
Dr.	S.	Kamble	NE
Dr.	C.	Krause	USDA-ARS
Dr.	S.	Miyazaki	MI
Dr.	M.	Reding	USDA-ARS
Dr.	D.	Williams	IL
Dr.	M.	Williams	USDA-ARS
Dr.	R.	Zollinger	ND
VACANT			MO

Northeast Region

Dr.	J.	Allen	DC
Dr.	E.	Beste	MD
Dr.	F.	Caruso	MA
Dr.	R.	Chandran	WV
Mr.	R.	Frank	USDA-ARS
Dr.	R.	Grube	NH
Dr.	A.	Hazelrigg	VT
Dr.	P.	Heller	PA
Dr.	J.	Locke	USDA-ARS
Ms.	E.	Lurvey	NY
Dr.	T.	Mervosh	CT
Dr.	W.	Reissig	NY
Dr.	C.	Rodriguez-Saona	NJ
Dr.	R.	Webb	USDA-ARS
Dr.	S.	Whitney King	DE
Dr.	D.	Yarborough	ME

Southern Region

Dr.	R.	Bellinger	SC
Dr.	R.	Bessin	KY
Dr.	N.	Burgos	AR
Dr.	C.	Collison	MS
Dr.	S.	Culpepper	GA
Dr.	R.	Davis	USDA-ARS
Dr.	D.	Ferrin	LA
Dr.	C.	Gilliam	AL
Dr.	S.	Ludwig	TX (Ornamentals)
Mr.	C.	Luper	OK

ATTACHMENT 1 Continued

Southern Region Continued

Mr. M. Matocha	TX (Food Crops)
Dr. D. Monks	NC
Dr. M. Samuel-Foo	FL
Dr. A. Simmons	USDA-ARS
Dr. M. Weaver	VA
Mr. T. Webster	USDA-ARS
Dr. A. Wszelaki	TN
VACANT	PR

Western Region

Dr. R. Boydston	USDA-ARS
Dr. M. Burrows	MT
Mr. M. Craig	NM
Mr. J. Davison	NV
Dr. H. Deer	UT
Mr. J. DeFrancecso	OR
Dr. M. Ferrell	WY
Dr. N. Grunwald	USDA-ARS
Dr. R. Hirnyck	ID
Dr. P. Kaspari	AK
Dr. M. Kawate	HI
Dr. R. Miller	GU
Dr. J. Munyaneza	USDA-ARS
Dr. J. Palumbo	AZ
Ms. R. Sisco	CA
Dr. D. Walsh	WA
VACANT	CO

CHEMICAL (MFG)		STUDY DIRECTOR	CROP GROUP
ABAMECTIN (MANA,SYNGEN)	ONION (GREEN)	LEONARD	BULB VEGETABLE GROUP (03-07B)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: LEAFMINERS, THRIPS

Use Pattern: (PCR): FOLIAR; 0.02 LB.AI/A; 4 APPLIC; 7 DAY INTERVAL; 7 DAY PHI

Comments: MFG CAN ONLY SUPPORT 4 APPLICATIONS:09/07. EPA CAUTION:08/08.

PR #: A4068 **LAB:** 09-BER01

NER - FRD		NCR - FRD		SOR - FRD		WSR - FRD		CANADA - FRD	
09-MD18	Ross, Marylee			09-FL55	Studstill, David	09-CA*20	Benzen, Ms. Sharon D.	09-ON02	Riddle, Geoff
								09-QC01	Jobin, Tristan

ACETAMIPRID (NISSO,UPI)	GREENS (MUSTARD)	SAMOIL	LEAFY BRASSICA GREENS SUBGROUP (05B)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: HARLEQUIN BUG

Use Pattern: (PCR): 0.1 LB; 3 DAYS PHI (LABEL RATE IS FOR 7 DAYS)

Comments: TOLERANCE ESTABLISHED, REQUEST FOR NEW PEST AT HIGHER RATE WITH A REDUCED PHI. FUTURE SUBMISSION FOR ASPARAGUS SPEARS (9939), MUSTARD GREENS (9271) & SWEET CORN (10216) ALSO INCLUDE FERNS (9905).

PR #: 09271 **LAB:** 09-CAR05

NER - FRD		NCR - FRD		SOR - FRD		WSR - FRD		CANADA - FRD	
		09-OH*04	Horst, Leona	09-SC*03	Wade, Paul	09-CA*51	Benzen, Ms. Sharon D.		
				09-GA*06	Fraelich, Ben	09-CA*52	Benzen, Ms. Sharon D.		
				09-NC10	Batts, Roger B.				
				09-TX*19	McCommas, Mr.David				
				09-AR07	Burgos, N.				

ACETAMIPRID (NISSO,UPI) | CORN (SWEET) | SAMOIL | CEREAL & GRAIN GROUP (15-16)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: JAPANESE BEETLE, ADULT BEETLES, NORTHERN & WESTERN CORN ROOT WORM BEETLES, CORN LEAF APHIDS

Use Pattern: (PCR): 0.047 TO 0.10 LB.AI/A; FOLIAR: AERIAL OR GROUND APPLIC; 2 APPLIC; 7-DAY PHI; TREAT WHEN JAPANESE BEETLE OR ROOT WORM ADULTS (5/PLANT) ARE FEEDING AND SWEET CORN IS LESS THAN 50% SILK, RETREAT IF BEETLES ARE FEEDING ON THE KERNALS (OPEN TIP VARTIETIES ARE AT RISK)

Comments: CANADIAN DATA AVAILABLE FROM 8 TRIALS; ANALYTICAL REPORT COMPLETED:10/08. FUTURE SUBMISSION FOR ASPARAGUS SPEARS (9939), MUSTARD GREENS (9271) & SWEET CORN (10216) ALSO INCLUDE FERNS (9905).

PR #: 10216 **LAB:** 09-CAR01

NER - FRD		NCR - FRD		SOR - FRD		WSR - FRD		CANADA - FRD
09-NY14	Jordan, Mr. Grant	09-WI15	Chapman, S.	09-FL04	Studstill, David	09-CA102	Boutwell, Brent	
				09-GA*11	Fraelich, Ben	09-ID17	Meeks, Mr. Will	
				09-SC*01	Wade, Paul			
				09-GA*14	Fraelich, Ben			

ACETAMIPRID (NISSO,UPI) | ASPARAGUS (SPEARS) | SAMOIL | MISCELLANEOUS COMMODITY (99)

Residue Data Requirements:

E/CS Data Requirements:

Reasons for Need: ASPARAGUS BEETLE, APHIDS

Use Pattern: (PCR): 0.10 LB.AI/A OF PRODUCT; MAKE 2 APPLIC TO SPEARS IN 30-50 GPA AT A 14-DAY INTERVAL; 14-DAY PHI

Comments: MFG RECOMMENDS 1-DAY PHI:09/07. FUTURE SUBMISSION FOR ASPARAGUS SPEARS (9939), MUSTARD GREENS (9271) & SWEET CORN (10216) ALSO INCLUDE FERNS (9905).

PR #: 09939 **LAB:** 08-MIR04

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD		CANADA - FRD
			09-CA63	Ennes, D. (Kearney)	
			09-CA34	Mitchell, Michelle	

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
ACETOCHLOR (DOWAGR,MONS)	BEAN, PEA (SUCCULENT)	ARSENOVIC	PEA/BEAN SUCCULENT SHELLED & EDIBLE PODDED SUBGROUPS (06AB)

Residue Data Requirements: COMPLETE
E/CS Data Requirements:
Reasons for Need: WEEDS
Use Pattern: (PCR): ASSIST WITH PLANT-BACK RESTRICITONS
Comments: PLANT BACK RESTRICTIONS ONLY AND NOT FOR IN SEASON USE:08/08. NEED 3 TRIALS IF RESIDUES < 0.1 PPM. DOWARGO OK:09/08 (WORKSHOP). STUDY TO BE CONDUCTED ON SNAP BEANS:10/08.

PR #: 10214 **LAB:** 09-BER05

NER - FRD		NCR - FRD		SOR - FRD		WSR - FRD	CANADA - FRD
09-NY13	Bellinder, Dr. Robin	09-WI11	Heider, Daniel J.	09-AR09	Burgos, N.		
		09-OH*10	Horst, Leona				

ACIBENZOLAR (SYNGEN)	WATERMELON	THOMPSON	MELON SUBGROUP (09A)

Residue Data Requirements: COMPLETE
E/CS Data Requirements: COMPLETE
Reasons for Need: FUSARIUM WILT, WATERMELON VINE DECLINE VIRUS
Use Pattern: (PCR): 0.25 OZ/A; FOLIAR OR SOIL DRENCH
Comments: ADDITIONAL PERFORMANCE TRIALS BEING DONE IN 2009 FOR FUSARIUM WILT:03/09.

PR #: P9877 **LAB:** NONE

NER - FRD		NCR - FRD		SOR - FRD		WSR - FRD	CANADA - FRD
09-MDP02	Everts, Kathryne	09-INP01	Egel, D.S.	09-SCP01	Keinath, Dr. Anthony P.		

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
ACIBENZOLAR (SYNGEN)	STRAWBERRY	THOMPSON	BERRY & SMALL FRUIT (13-07G)

Residue Data Requirements: COMPLETE
E/CS Data Requirements: COMPLETE
Reasons for Need: ANGULAR LEAFSPOT
Use Pattern: (PCR): FOLIAR SPRAY, FROM GREEN-UP THROUGH HARVEST
Comments: MFG REQURES EFFICACY & CROP SAFETY (E/CS) DATA PRIOR TO REGISTRATION: 10/07; IR-4 DOING 2009 EFFICACY TRIALS: 03/09; NEED SAFETY DATA WITH NON-IONIC SURFACTANT: 05/09; CANADA CONDUCTED E/CS TRIALS IN 2009 & PLANNING MORE E/CS TRIALS IN 2010: 01/10

PR #: P7817 **LAB:** NONE

NER - FRD		NCR - FRD		SOR - FRD		WSR - FRD		CANADA - FRD	
09-MEP01	Yarborough, Dr. Dave			09-FLP01	Peres, N.A.	09-CA*P01	Benzen, Ms. Sharon D.		

AZOXYSTROBIN + FLUDIOXONIL + DIFENOCONAZOLE ()	POTATO (POSTHARVEST)	THOMPSON	TUBEROUS/CORM SUBGROUP (01CD)

Residue Data Requirements: COMPLETE
E/CS Data Requirements:
Reasons for Need: SILVER SCURF (HELMINTHOSPORIUM SOLANI)
Use Pattern: (PCR): APPLY TO TUBERS GOING INTO STORAGE; RATE AND USE LIMITATIONS UNKNOWN
Comments: RESISTANCE MANAGEMENT - WILL NOT REGISTER POST HARVEST FLUDIOXONIL FOR POTATOES TO BE USED FOR SEED: 05/08; NEW POST HARVEST AZOXYSTROBIN FORMULATION TO BE AVAILABLE FOR RESIDUE STUDY IN LATE 2009: 12/08. STUDY FOR PR# A9860 (AZOXYSTROBIN + FLUDIOXONIL) ALSO INCLUDES DIFENOCONAZOLE (10131)

PR #: A9860 **LAB:** 09-TBD

NER - FRD		NCR - FRD		SOR - FRD		WSR - FRD		CANADA - FRD	
09-ME04	Yarborough, Dr. Dave	09-WI19	Heider, Daniel J.			09-WA32 09-ID19	Groenendale, D. Meeks, Mr. Will	09-ON14	White, Peter

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CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
BETA-CYFLUTHRIN (BAYER)	FLAX	CORLEY	MISCELLANEOUS COMMODITY (99)

Residue Data Requirements: 5

E/CS Data Requirements:

Reasons for Need: GRASSHOPPERS

Use Pattern: (PCR): 1 TO 2.25 OZ/A; MAX APPLIC 2 AT MIN OF 3 WEEK INTERVALS

Comments: NEW STUDY NEEDED:09/08.

PR #: A9026 **LAB:** 09-FLR10

NER - FRD	NCR - FRD		SOR - FRD	WSR - FRD	CANADA - FRD
	09-ND08	Lee, Curt			
	09-SD03	Clay, Dr. Sharon			
	09-SD04	Clay, Dr. Sharon			
	09-NE05	Spontanski, Jess J.			
	09-ND07	Lee, Curt			

BOSCALID + PYRACLOSTROBIN (BASF)	ENDIVE (BELGIAN)	THOMPSON	LEAVES OF ROOT/TUBER GROUP (02)

Residue Data Requirements:

E/CS Data Requirements:

Reasons for Need: SCLEROTINIA SCLEROTIORUM

Use Pattern: (PCR):

Comments: SUBMISSION FOR ENDIVE (8662), STONE FRUITS (7922), APPLE (8890) & PEAR (9207). WSR RUNNING EFFICACY TRIALS TO DETERMINE CORRECT RATES:03/08. WSR TO RUN NEW RESIDUE TRAILS IN FALL/WINTER 2008/2009 USING GROWER EQUIPMENT & BASF WILL ANALYZE THE SAMPLES:06/ 08.

PR #: A8662 **LAB:** 09-BAR01

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD		CANADA - FRD
			09-CA129	Stewart, D.	
			09-CA01	Stewart, D.	
			09-CA02	Stewart, D.	
			09-CA03	Stewart, D.	

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
BOSCALID + PYRACLOSTROBIN (BASF)	ARTICHOKE	THOMPSON	MISCELLANEOUS COMMODITY (99)

Residue Data Requirements:

E/CS Data Requirements:

Reasons for Need: BOTRYTIS SPP.

Use Pattern: (PCR): 18.5 OZ. PRODUCT/A; 50-100 GPA (10-20 GPA BY AIR); APPLY PRIOR TO ONSET OF DISEASE AND CONTINUE AT 14 DAY INTERVALS; NO MORE THAN 4 APPLIC/SEASON; 7-DAY PHI

Comments: MFG WILL ANALYZE SAMPLES:09/05. MFG NEEDS PERFORMANCE DATA: 2X RATE IN 3 SITES PRIOR TO LABELING:05/08. FUTURE SUBMISSION FOR ARTICHOKE (9689) & PERSIMMON (9093).

PR #: P9689 **LAB:** NONE

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD		CANADA - FRD
			09-CAP03	Bari, Dr. Mohammad H.	
			09-CAP04	Bari, Dr. Mohammad H.	

BOSCALID + PYRACLOSTROBIN (BASF)	HOPS	CARPENTER	MISCELLANEOUS COMMODITY (99)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: POWDERY MILDEW, DOWNY MILDEW

Use Pattern: (PCR): FROM UPGRADE PROPOSAL, PER CURRENT LABEL: 3 APPLIC PER SEASON AT 14 OZ. PRISTINE FORMULATION PER 100 GALLONS OF DILUTE SPRAY; MAXIMUM OF 84 OZ. PRODUCT PER ACRE PER SEASON; 14-DAY PHI.

Comments: TOL EST, REGISTRATION PENDING. MFG FUNDING 2004 EFFICACY:03/04. MFG LABEL:05/05. USE IS REGISTERED BUT 2 ADDITIONAL RESIDUE TRIALS ARE NEEDED TO SUPPORT A CODEX MRL:10/08. MFG WILL ANALYZE RESIDUE SAMPLES:10/08.

PR #: 08889 **LAB:** 09-BAR03

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD		CANADA - FRD
			09-WA17	Groenendale, D.	
			09-ID06	Meeks, Mr. Will	

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
BOSCALID + PYRACLOSTROBIN (BASF)	PERSIMMON	THOMPSON	MISCELLANEOUS COMMODITY (99)

Residue Data Requirements:

E/CS Data Requirements: COMPLETE

Reasons for Need: FRUIT & FOLIAGE DISEASES

Use Pattern: (PCR): 10.5 TO 14.5 OZ.PRODUCT/A; 0 DAY PHI; MAKE NO MORE THAN 3 SEQUENTIAL APPLIC, NOT MORE THAN 5 APPLIC PER SEASON, IN 50-100 GPA

Comments: MFG NEEDS PERFORMANCE DATA BEFORE LABELING:05/07. FUTURE SUBMISSION FOR ARTICHOKE (9689) & PERSIMMON (9093).

PR #: P9093 **LAB:** NONE

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD	CANADA - FRD
		09-FLP02 Hochmuth, Bob		

CARFENTRAZONE-ETHYL (FMC)	MINT	ARSENOVIC	MISCELLANEOUS COMMODITY (99)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: ANNUAL, BI-ANNUAL & PERENNIAL BROADLEAF AND GRASSY WEEDS

Use Pattern: (PCR): 0.51 TO 1.98 FL.OZ/A; MAX OF 3.96 FL.OZ/A/DORMANT SEASON

Comments: POST EMERGENT WEED CONTROL (BURN DOWN) DURING MINT DORMANT PERIOD. MFG INDICATED THAT RESIDUE DATA WOULD BE REQUIRED AND SUGGESTED SULFENTRAZONE MAY BE A BETTER OPTION:06/06.

PR #: 09427 **LAB:** 09-CAR15

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD	CANADA - FRD
	09-WI04 Heider, Daniel J.		09-WA*15 Harvey, John	
	09-WI03 Heider, Daniel J.		09-WA16 Groenendale, D.	
			09-ID07 Meeks, Mr. Will	

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
CHLORANTRANILIPROLE (DUPONT)	ALL CROPS	DORSCHNER	BLANKET (00)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: DIAMONDBACK MOTH, WORM & LOOPER COMPLEX, CUTWORMS, CORN EAR WORM, BEET ARMYWORM, WHITEFLY NYMPHS, LEAFMINER, LEP. LARVAE, RICE WATER WEEVIL, ARTICHOKE PLUME MOTH, AVOCADO LACE BUG, BANANA ROOT BORER & OTHERS

Use Pattern: (PCR):

Comments: REGISTRATION PLAN TO HAVE ALL CROPS BUNDLED WITH 3 STUDIES. STUDY 10204 ON BARLEY(3), SORGHUM (3) & WHEAT(5 WITH 1 PROCESSING); STUDY A10204 ON GREEN ONION(5) & DILL(2); STUDY B10204 WITH DECLINE TRIALS ON CHERRY, LYCHEE & PAPAYA. HQ REQUESTS COVERED TURNIP GREENS (10217), ONION (10162), PEPPER (BELL & NON-BELL) (GH) (9908), LEMON (10202), STRAWBERRY (9850), RICE (10136), HERBS (10219), ARTICHOKE (10083), AVOCADO (9581), CANOLA (10208), COFFEE (10205), GRAPEFRUIT (10201), GRASSES (SEED CROP) (10250), ORANGE (10200), PERSIMMON (10536), OKRA (10537), SPICES (10538), TROPICAL FRUITS (10539) & BANANA (10232).

PR #: 10204 **LAB:** 09-FLR24

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD	CANADA - FRD
	09-ND04 Ciernia, Mr. Mark		09-ID14 Meeks, Mr. Will	
	09-ND05 Lee, Curt		09-NM13 Craig, Maury (NMSU)	
	09-SD08 Clay, Dr. Sharon		09-NM19 Craig, Maury (NMSU)	
	09-ND01 Lee, Curt		09-NM18 Craig, Maury (NMSU)	
	09-SD07 Clay, Dr. Sharon			
	09-ND02 Ciernia, Mr. Mark			
	09-ND03 Ciernia, Mr. Mark			

PR #: A10204 **LAB:** 09-FLR17

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD	CANADA - FRD
09-MD01 Ross, Marylee		09-NC22 Batts, Roger B.	09-CA100 Boutwell, Brent	09-QC05 Jobin, Tristan
			09-CA*99 Benzen, Ms. Sharon D.	09-ON09 Riddle, Geoff
			09-ID15 Meeks, Mr. Will	

PR #: B10204 **LAB:** 09-FLR18

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD	CANADA - FRD
		09-FL05 Crane, Dr. Jonathan H.	09-HI01 Kam, James	
		09-FL69 Crane, Dr. Jonathan H.	09-WA03 Groenendale, D.	

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
CHLORFENAPYR (BASF)	BASIL & CHIVES (GH)	DORSCHNER	HERB SUBGROUP (19A)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: CHILLI THRIPS

Use Pattern: (PCR): 0.32 LB.AI/A/APPLIC; 2 APPLIC, 5 DAY RETREATMENT INTERVAL, ONE DAY PHI, APPLY IN 100 GPA

Comments: (GREENHOUSE) FUTURE SUBMISSION FOR BASIL (10087) & CHIVES (10088) ALSO INCLUDE HERB GROUP. MFG REQUIRES PLANT SAFETY AND PERFORMANCE DATA BEFORE REGISTRATION & MFG MUST CONFIRM WITH GH PRODUCT DISTRIBUTOR:05/08.

PR #: 10087 **LAB:** 09-CAR13

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD	CANADA - FRD
09-MD09 Ross, Marylee		09-TX11 Gregg, Ms. Lori		
09-MD10 Ross, Marylee		09-NC14 Batts, Roger B.		
		09-FL36 Studstill, David		
		09-TX12 Gregg, Ms. Lori		
		09-NC25 Batts, Roger B.		
		09-FL35 Studstill, David		

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
CHLOROTHALONIL (MANA,SYNGEN)	PEPPER (NON-BELL)	THOMPSON	FRUITING VEGETABLE GROUP (08)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: ANTHRACNOSE, BOTRYTIS LEAFMOLD, FRUITROT, CERCOSPORA LEAFSPOT

Use Pattern: (PCR): FOLIAR SPRAY; 1.5 LB.AI/A; 8 APPLIC; 7 DAY INTERVALS; 0, 3 7 14 DAY PHI

Comments: SUBMISSION FOR NON-BELL & BELL PEPPERS (571, 32), PERSIMMON (5388), HORSERADISH (2392), RHUBARB (5410) & GINSENG (988) ALSO INCLUDE EGGPLANT (1154), CUCURBITS (3950, 3860, 3861), LUPINE (5289), LENTIL (5422), YAM (1414), KOHLRABI (3169). LABELED WITH WEATHERSTIK FORMULATION:05/09. MFG TO SUBMIT ULTREX LABEL FOR THIS USE:05/09.

PR #: A0571 **LAB:** 09-CAR10

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD	CANADA - FRD
			09-NM08 Craig, Maury (NMSU)	

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
CHLOROTHALONIL (MANA,SYNGEN)	GRAPEFRUIT	THOMPSON	CITRUS FRUIT GROUP (10)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: SEPTORIA SPOT

Use Pattern: (PCR): 4-6 PINTS/A (3.6 LB); FOLIAR (FRUIT), AIR-BLAST (200-600 GAL/A); 1-2 APPLIC; 4-6 WEEK RE-TREATMENT INTERVAL; 7-DAY PHI; APPLY PRIOR TO WINTER RAINS IN 4-6 WEEK INTERVALS WITH A SECOND TRT APPLIC IN WINTER (CHLOROTHALONIL FIRST OR SECOND IN ROTATION WITH COPPER-BASED PRODUCT), FOLLOW DISEASE FORECASTS FOR SEPTORIA SPOT PROVIDED BY UC.

Comments: MFG AWAITING REVIEW OF PENDING USES, DUE JAN 2009:08/08. FUTURE SUBMISSION FOR LYCHEE (6420), GUAVA (10100), GRAPEFRUIT (10164), LEMON (10165) & ORANGE (10163) ALSO INCLUDE LONGAN (6421).

PR #: 10164 **LAB:** 09-FLR26

NER - FRD	NCR - FRD	SOR - FRD		WSR - FRD		CANADA - FRD
		09-FL13	Studstill, David	09-CA88	Farrar, Mr. Chuck	
		09-TX05	Gregg, Ms. Lori	09-CA89	Ennes, D. (Kearney)	

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
CHLOROTHALONIL (MANA,SYNGEN)	LEMON	THOMPSON	CITRUS FRUIT GROUP (10)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: SEPTORIA SPOT

Use Pattern: (PCR): 4-6 PINTS/A (3.6 LB); FOLIAR (FRUIT), AIR-BLAST (200-600 GAL/A); 1-2 APPLIC; 4-6 WEEK RE-TREATMENT INTERVAL; 7-DAY PHI; APPLY PRIOR TO WINTER RAINS IN 4-6 WEEK INTERVALS WITH A SECOND TRT APPLIC IN WINTER (CHLOROTHALONIL FIRST OR SECOND IN ROTATION WITH COPPER-BASED PRODUCT), FOLLOW DISEASE FORECASTS FOR SEPTORIA SPOT PROVIDED BY UC.

Comments: MFG AWAITING REVIEW OF PENDING USES, DUE JAN 2009:08/08. FUTURE SUBMISSION FOR LYCHEE (6420), GUAVA (10100), GRAPEFRUIT (10164), LEMON (10165) & ORANGE (10163) ALSO INCLUDE LONGAN (6421).

PR #: 10165 **LAB:** 09-CAR03

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD		CANADA - FRD
			09-CA90	Skiles, Keri	
			09-CA91	Skiles, Keri	
			09-CA92	Farrar, Mr. Chuck	
			09-CA93	Farrar, Mr. Chuck	
			09-CA94	Farrar, Mr. Chuck	

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
CHLOROTHALONIL (MANA,SYNGEN)	ORANGE	THOMPSON	CITRUS FRUIT GROUP (10)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: SEPTORIA SPOT

Use Pattern: (PCR): 4-6 PINTS/A (3.6 LB); FOLIAR (FRUIT), AIR-BLAST (200-600 GAL/A); 1-2 APPLIC; 4-6 WEEK RE-TREATMENT INTERVAL; 7-DAY PHI; APPLY PRIOR TO WINTER RAINS IN 4-6 WEEK INTERVALS WITH A SECOND TRT APPLIC IN WINTER (CHLOROTHALONIL FIRST OR SECOND IN ROTATION WITH COPPER-BASED PRODUCT), FOLLOW DISEASE FORECASTS FOR SEPTORIA SPOT PROVIDED BY UC.

Comments: MFG AWAITING REVIEW OF PENDING USES, DUE JAN 2009:08/08. FUTURE SUBMISSION FOR LYCHEE (6420), GUAVA (10100), GRAPEFRUIT (10164), LEMON (10165) & ORANGE (10163) ALSO INCLUDE LONGAN (6421).

PR #: 10163 **LAB:** 09-FLR25

NER - FRD	NCR - FRD	SOR - FRD		WSR - FRD		CANADA - FRD
		09-FL16	Studstill, David	09-CA86	Farrar, Mr. Chuck	
		09-FL17	Studstill, David	09-CA87	Farrar, Mr. Chuck	
		09-FL18	Studstill, David	09-CA85	Skiles, Keri	
		09-FL21	Studstill, David			
		09-FL22	Studstill, David			
		09-FL23	Studstill, David			
		09-TX04	Gregg, Ms. Lori			

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
CHLOROTHALONIL (MANA,SYNGEN)	GUAVA	THOMPSON	MISCELLANEOUS COMMODITY (99)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: ANTHRACNOSE

Use Pattern: (PCR): 1.4-2.6 LBS.AI/A; FOLIAR APPLIC; 12 APPLIC (NO MORE THAN 24 LB.AI/A/SEASON); 7-14 DAYS RETREATMENT INTERVAL; 21-DAYS PHI

Comments: FUTURE SUBMISSION FOR LYCHEE (6420), GUAVA (10100), GRAPEFRUIT (10164), LEMON (10165) & ORANGE (10163) ALSO INCLUDE LONGAN (6421).

PR #: 10100 **LAB:** 09-CAR11

NER - FRD	NCR - FRD	SOR - FRD		WSR - FRD	CANADA - FRD
		09-FL31	Crane, Dr. Jonathan H.		
		09-FL32	Crane, Dr. Jonathan H.		
		09-FL33	Crane, Dr. Jonathan H.		
		09-FL34	Crane, Dr. Jonathan H.		

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
CHLOROTHALONIL (MANA,SYNGEN)	LYCHEE	THOMPSON	MISCELLANEOUS COMMODITY (99)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: ANTHRACNOSE

Use Pattern: (PCR): 1.4-2.6 LBS.AI/A; FOLIAR APPLIC; 12 APPLIC (NO MORE THAN 24 LB.AI/A/SEASON); 7-14 DAYS RETREATMENT INTERVAL; 21-DAYS PHI

Comments: SOR (FL) REACTIVED:04/08. FUTURE SUBMISSION FOR LYCHEE (6420), GUAVA (10100), GRAPEFRUIT (10164), LEMON (10165) & ORANGE (10163) ALSO INCLUDE LONGAN (6421).

PR #: 06420 **LAB:** 09-CAR12

NER - FRD	NCR - FRD	SOR - FRD		WSR - FRD	CANADA - FRD
		09-FL47	Crane, Dr. Jonathan H.		
		09-FL48	Crane, Dr. Jonathan H.		
		09-FL49	Crane, Dr. Jonathan H.		
		09-FL50	Crane, Dr. Jonathan H.		

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
CLETHODIM (MANA,VALENT)	APPLE	ARSENOVIC	POME GROUP (11)

Residue Data Requirements: COMPLETE
E/CS Data Requirements: NONE
Reasons for Need: ANNUAL & PERENNIAL GRASSES
Use Pattern: (PCR): 0.25 LB.AI/A; 2 POSTEMERGENCE APPLIC; 14-DAY SPRAY INTERVAL; 14-DAY PHI; 0.5 LB.AI/A/SEASON MAX
Comments: ORCHARD FLOOR; FUTURE SUBMISSION FOR APPLE (6873), PEAR (6874), PLUM (6948), CHERRY (06877) ALSO INCLUDE APRICOT (06876) & NECTARINE (6878)

PR #: 06873 **LAB:** 08-NYR08

NER - FRD		NCR - FRD		SOR - FRD	WSR - FRD	CANADA - FRD
09-NY20	Bellinder, Dr. Robin	09-MI26	Zandstra, Dr. Bernard H.			

CLETHODIM (MANA,VALENT)	CHERRY	ARSENOVIC	STONE FRUIT GROUP (12)

Residue Data Requirements: COMPLETE
E/CS Data Requirements: NONE
Reasons for Need: ANNUAL GRASSES
Use Pattern: (PCR): 0.25 LB.AI/A; 2 APPLIC; 14 DAY INTERVAL; 0.5 LB.AI/A/SEASON MAX.
Comments: FUTURE SUBMISSION FOR APPLE (6873), PEAR (6874), PLUM (6948), CHERRY (06877) ALSO INCLUDE APRICOT (06876) & NECTARINE (6878).

PR #: 06877 **LAB:** 09-YAR02

NER - FRD		NCR - FRD		SOR - FRD	WSR - FRD		CANADA - FRD	
09-NY04	Bellinder, Dr. Robin	09-MI22	Zandstra, Dr. Bernard H.		09-CO02	Loiz, Meghan	09-ON03	Pogoda, Mitch
		09-MI23	Zandstra, Dr. Bernard H.		09-CA31	Skiles, Keri	09-ON04	Pogoda, Mitch
		09-MI24	Zandstra, Dr. Bernard H.		09-CA32	Skiles, Keri		
		09-MI25	Zandstra, Dr. Bernard H.		09-ID04	Meeks, Mr. Will		
		09-MI20	Zandstra, Dr. Bernard H.		09-WA22	Groenendale, D.		
		09-MI21	Zandstra, Dr. Bernard H.		09-WA*23	Harvey, John		

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
CLOTHIANIDIN (VALENT)	GRAPEFRUIT	DORSCHNER	CITRUS FRUIT GROUP (10)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: CITRUS PSYLLID: ADULTS, NYMPHS & EGGS, CITRUS LEAFMINER

Use Pattern: (PCR): 0.2 LB.AIA/A (12 FLUD OZ/A) MAX; FOLIAR APPLIC, GROUND AND/OR AIR; 1 OR 2 DEPENDING ON APPLIC RATE; 1 DAY PHI; MAX OF 12 FLUID OZ OF FORMULATED PRODUCT TO BE USED PER YEAR, WITH APPLIC RATE TO BE DETERMINED FROM EITHER ONE (12 OZ) OR 2 APPLIC (6 OZ 2 TIMES)

Comments: IR-4 TO SUBMIT MFG DATA FOR ORANGE (10167) AND LEMON (10169) ALONG WITH THE IR-4 GRAPEFRUIT (10168) DATA (E-MAIL CORRESPONDENCE 12/11/08) & STRAWBERRY (10005).

PR #: 10168 **LAB:** 09-MIR10

NER - FRD	NCR - FRD	SOR - FRD		WSR - FRD		CANADA - FRD
		09-FL72	Studstill, David	09-CA95	Farrar, Mr. Chuck	
		09-FL09	Studstill, David	09-CA96	Ennes, D. (Kearney)	
		09-FL10	Studstill, David			
		09-FL11	Johnson, Mr. Robert R.			
		09-FL12	Johnson, Mr. Robert R.			
		09-TX03	Gregg, Ms. Lori			
		09-FL71	Studstill, David			
		09-FL08	Studstill, David			

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
CYANTRANILIPROLE (DUPONT)	ONION (DRY BULB & GREEN)	DORSCHNER	BULB VEGETABLE GROUP (03-07AB)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: THRIPS

Use Pattern: (PCR): 0.1 LB.AI/A; MAKE 4 FOLIAR APPLIC AT 7-DAY INTERVALS IN 30-50 GPA, 7 DAY PHI

Comments: FUTURE SUBMISSION FOR CRANBERRY (10199), DRY BULB & GREEN ONION (10107), PEPPER (GH) (10122) & TOMATO (GH) (10104).

PR #: 10107 **LAB:** 09-ABC01

NER - FRD		NCR - FRD		SOR - FRD		WSR - FRD		CANADA - FRD	
09-NY09	Bellinder, Dr. Robin	09-WI09	Chapman, S.	09-TX*07	McCommas, Mr.David	09-OR13	Koskela, Ms. Gina	09-ON06	Weber-Henricks, Mary
		09-OH*11	Horst, Leona	09-SC*08	Wade, Paul	09-CA*118	Benzen, Ms. Sharon D.	09-ON07	Weber-Henricks, Mary
				09-TX*28	McCommas, Mr.David	09-NM15	Craig, Maury (NMSU)	09-QC02	Trudeau, M.
						09-CA67	Boutwell, Brent	09-QC03	Trudeau, M.
						09-CA68	Farrar, Mr. Chuck	09-QC04	Trudeau, M.
						09-ID10	Meeks, Mr. Will		

CYANTRANILIPROLE (DUPONT)	PEPPER (BELL & NON-BELL) (GH)	DORSCHNER	FRUITING VEGETABLE GROUP (08)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: THRIPS, PSYLLIDS, WHITEFLY

Use Pattern: (PCR): APPLICATION RATE NOT SPECIFIED; 4 APPLIC, 7 DAY RE-TREATMENT INTERVAL, 0-DAY PHI

Comments: IF NO FIELD USE THAN 4 TRIALS NEEDED, IF NOT DOING TOMATO, THEN NEED DECLINE STUDY:10/08. CANDADIAN PRIORITY FOR 2009. FUTURE SUBMISSION FOR CRANBERRY (10199), DRY BULB & GREEN ONION (10107), PEPPER (GH) (10122) & TOMATO (GH) (10104).

PR #: 10122 **LAB:** 09-MIR11

NER - FRD		NCR - FRD	SOR - FRD		WSR - FRD		CANADA - FRD	
09-MD05	Ross, Marylee		09-NC26	Batts, Roger B.	09-CA83	Ennes, D. (Kearney)	09-BC07	Brookes, Ms. Victoria
							09-ON08	Riddle, Geoff

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
CYANTRANILIPROLE (DUPONT)	TOMATO (GH)	DORSCHNER	FRUITING VEGETABLE GROUP (08)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: APHIDS, LEPS, PSYLLIDS, WHITEFLIES

Use Pattern: (PCR): 0.33 LB.AI/A/APPLIC; FOLIAR & CHEMIGATION (THERMAL FOGGING IS DESIRABLE); 5 APPLIC; LESS THAN 3 DAYS PHI

Comments: (GREENHOUSE) CANADIAN PRIORITY FOR 2009; DOING 2 GH RESIDUE TRIALS PLUS EFFICACY:06/08. MFG PROVIDED EFFICACY DATA TO IR4, ADJUVANTS NEEDED FOR GOOD THRIPS CONTROL:08/08. FUTURE SUBMISSION FOR CRANBERRY (10199), DRY BULB & GREEN ONION (10107), PEPPER (GH) (10122) & TOMATO (GH) (10104).

PR #: 10104 **LAB:** 09-MIR09

NER - FRD		NCR - FRD		SOR - FRD		WSR - FRD		CANADA - FRD	
09-MD20	Ross, Marylee			09-NC27	Batts, Roger B.	09-CA66	Ennes, D. (Kearney)	09-BC06	Brookes, Ms. Victoria
09-MD26	Ross, Marylee							09-ON05	Riddle, Geoff

CYANTRANILIPROLE (DUPONT)	CRANBERRY	SAMOIL	BERRY & SMALL FRUIT (13-07GH)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: CRANBERRY & SPRAGANOTHIS FRUITWORMS, BLACKHEADED FIREWORM, CRANBERRY BLOSSOMWORM, SPOTTED FIREWORM, GYPSY MOTH

Use Pattern: (PCR): 0.066-0.134 AI/A; FOLIAR APPLIC; 2-3 APPLIC; 7 DAYS RE-TREATMENT INTERVAL; 14-DAY PHI; APPLY PRE-BLOOM OR POST-BLOOM ;AVOID APPLIC WHILE BEES ARE ACTIVELY FORAGING

Comments: FUTURE SUBMISSION FOR CRANBERRY (10199), DRY BULB & GREEN ONION (10107), PEPPER (GH) (10122) & TOMATO (GH) (10104).

PR #: 10199 **LAB:** 09-MIR13

NER - FRD		NCR - FRD		SOR - FRD	WSR - FRD		CANADA - FRD	
09-MA02	Sylvia, M.	09-WI05	Chapman, S.		09-OR17	DeFrancesco, Mr. Joe	09-BC02	Brookes, Ms. Victoria
09-NJ08	Freiberger, Tom	09-WI06	Chapman, S.					

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
CYAZOFAMID (FMC,ISK)	SPINACH	THOMPSON	LEAFY GREENS SUBGROUP (04A)

Residue Data Requirements: COMPLETE

E/CS Data Requirements: NEED 1 TRIAL ON DOWNY MILDEW TO ADD TO LABEL

Reasons for Need: WHITE RUST, DOWNY MILDEW

Use Pattern: (PCR):

Comments: CURRENT DATA ON WHITE RUST: 10/08; MFG REQUIRES AT LEAST 4 TRIALS WITH DOWNY MILDEW FOR LABEL: 10/08; SUBMISSION FOR MUSTARD GREENS (9083), BROCCOLI (9717), CABBAGE (9082), SPINACH (9265), HOPS (9823), ALSO INCLUDED COLLARD (9084): 08/09

PR #: P9265 **LAB:** NONE

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD	CANADA - FRD
			09-AZP02 Matheron, Dr. Michael E.	

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
CYAZOFAMID (FMC,ISK)	BEAN (LIMA)	CORLEY	SHELLED PEA/BEAN SUBGROUP (06BC)

Residue Data Requirements: COMPLETE

E/CS Data Requirements: ANY 3 - FOCUS ON P.CAPSICI; PYTHIUM NEEDS APPEAR TO BE MET

Reasons for Need: PYTHIUM APHANIDERMATUM, COTTONY LEAK, PHYTOPHTHORA CAPSICI

Use Pattern: (PCR): 2.75 FL OZ/A; FOLIAR SPRAYS AT 30-60 GPA; WEEKLY APPLIC; WHEN NEEDED 7-DAY PHI (MFG REQUESTS 0-DAY)

Comments: MFG MAY ASSIST IN FINAL REPORT WRITING:08/05; LOST 2007 TRIALS (LAB FREEZER FAILURE):03/09; 2009 NY PERFORMANCE TRIAL FOR P.CAPSICI:05/09; FUTURE SUBMISSION FOR LETTUCE (HEAD & LEAF) (10037), LIMA BEAN (9532) & SNAP BEAN (9094), BASIL (10118) ALSO INCLUDE LETTUCE (9279); JOINT EFFICACY WORK WITH 07262 AND 10324:12/09

PR #: 09532 **LAB:** 07-CAR16

NER - FRD		NCR - FRD		SOR - FRD		WSR - FRD		CANADA - FRD
09-MD15	Ross, Marylee	09-WI20	Heider, Daniel J.	09-NC30	Batts, Roger B.	09-CA134	Farrar, Mr. Chuck	
09-MD24	Ross, Marylee			09-NC31	Batts, Roger B.	09-CA135	Ennes, D. (Kearney)	
						09-ID20	Meeks, Mr. Will	

PR #: P9532 **LAB:** NONE

NER - FRD		NCR - FRD	SOR - FRD		WSR - FRD	CANADA - FRD
09-NYP03	McGrath, Dr. Margaret T.		09-VAP01	Rideout, S.L.		
			09-OKP01	Damicone, John		
			09-VAP02	Rideout, S.L.		

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
CYAZOFAMID (FMC,ISK)	BASIL	BARNEY	HERB SUBGROUP (19A)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: DOWNY MILDEW

Use Pattern: (PCR): 3 OZ/A; FOLIAR; 7 DAYS RE-TREATMENT INTERVAL; 7-DAY PHI; DO NOT APPLY MORE THAN 27.5 FL.OZ/A/CROP

Comments: FIELD & GREENHOUSE. MFG SUPPORTS GH USE IF AT LEAST 3 PRODUCTS ARE AVAILABLE FOR ROTATION/RESISTANCE MANAGEMENT:10/08. FUTURE SUBMISSION FOR LETTUCE (HEAD & LEAF) (10037), LIMA BEAN (9532) & SNAP BEAN (9094), BASIL (10118) ALSO INCLUDE LETTUCE (9279).

PR #: 10118 **LAB:** 09-CAR08

NER - FRD	NCR - FRD	SOR - FRD		WSR - FRD		CANADA - FRD
09-MD04 Ross, Marylee		09-FL29	Studstill, David	09-CA*82	Benzen, Ms. Sharon D.	
		09-NC16	Batts, Roger B.	09-CA81	Ennes, D. (Kearney)	
				09-AZ*01	Miller, Barry	

CYPRODINIL + FLUDIOXONIL (SYNGEN)	GREENS (MUSTARD)	BARNEY	LEAFY BRASSICA GREENS SUBGROUP (05B)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: ALTERNARIA LEAF BLIGHT

Use Pattern: (PCR): FOLIAR SPRAY; 0.875 LBS.SWITCH 62.5 WG FORMULATION/A; 4 APPLIC, FIRST 42 DAYS; 7 DAY PHI

Comments: INCLUDE PR# 7121 (CABBAGE) & 7122 (BROCCOLI). CANADA 2004 PRIORITY:03/03. REVISED SECTION F FOR 10 PPM FLUDIOXONIL SUB:06/23/03. SEE PR# 9126 FOR ADDITIONAL DATA NEEDS:11/03. NEED ONE TRIAL FROM REGION 4:08/08.

PR #: A7622 **LAB:** 09-FLR15

NER - FRD	NCR - FRD	SOR - FRD		WSR - FRD	CANADA - FRD
		09-AR12	Burgos, N.		
		09-AR03	Burgos, N.		
		09-AR04	Burgos, N.		
		09-AR03	Burgos, N.		
		09-AR04	Burgos, N.		
		09-AR12	Burgos, N.		

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
CYPRODINIL + FLUDIOXONIL (SYNGEN)	TOMATO	BARNEY	FRUITING VEGETABLE GROUP (08)

Residue Data Requirements:

E/CS Data Requirements:

Reasons for Need: BOTRYTIS, POWDERY MILDEW, SCLEROTINIA, FUSARIUM CROUN & ROOT ROT

Use Pattern: (PCR): 0.875 LB PRODUCT/A; 4 APPLIC; FOLIAR SPRAY; 1 DAY PHI

Comments: (FIELD & GH) HIGH PRIORITY AT GH WORKSHOP:06/01. RECD MFG DATA FOR 2 FL-2002 TRIALS:12/03. EPA REQUESTED 2 TRIALS TO COVER <1 INCH GREENHOUSE TOMATOES:08/08. INCLUDE PR# 10493.

PR #: A8124 **LAB:** 09-FLR14

NER - FRD		NCR - FRD	SOR - FRD		WSR - FRD		CANADA - FRD
09-MD14	Ross, Marylee		09-TX32	Gregg, Ms. Lori	09-CO05	Loiz, Meghan	
09-MD25	Ross, Marylee		09-TX32	Gregg, Ms. Lori	09-CO05	Loiz, Meghan	
09-MD14	Ross, Marylee						
09-MD25	Ross, Marylee						

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
CYPRODINIL + FLUDIOXONIL (SYNGEN)	CUCUMBER (GH)	BARNEY	SQUASH/CUCUMBER SUBGROUP (09B)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: POWDERY MILDEW, BOTRYTIS

Use Pattern: (PCR): 0.5-1.0 LB.AI/A; 3 APPLIC EVERY WEEK; 0 DAY PHI

Comments: (GREENHOUSE) SEE PR# 07655 FOR FIELD USE (MFG PROJECT). CANADA DOING EFFICACY & RESIDUE STUDY:09/04. IR-4 TO SUB CANADIAN DATA:06/07 (2 TRIALS). RESIDUE ANALYSIS COMPLETE IN CANADA:09/07. FUTURE SUBMISSION FOR SPINACH (10006) & CUCUMBER (GH) (09233).

PR #: 09233 **LAB:** 09-FLR14

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD		CANADA - FRD
			09-CO06	Loiz, Meghan	
			09-CO07	Loiz, Meghan	
			09-CO06	Loiz, Meghan	
			09-CO07	Loiz, Meghan	

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
CYPRODINIL + FLUDIOXONIL (SYNGEN)	LEMON	BARNEY	CITRUS FRUIT GROUP (10)

Residue Data Requirements:

E/CS Data Requirements:

Reasons for Need: ALTERNARIA

Use Pattern: (PCR): SWITCH IS CONDITIONALLY LABELED; USE LABEL RATE IN PROCESSING STUDY

Comments: SUBMISSION FOR LEMON (8297) ALSO INCLUDE LIME (6981). NEED PROCESSING STUDY FOR CYPRODINIL; FLUDIOXONIL PROCESSING STUDY COMPLETED AS PART OF POSTHARVEST WORK: 08/08.

PR #: A8297 **LAB:** 09-FLR13

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD	CANADA - FRD
			09-CA37 Mitchell, Michelle	

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
DIFLUBENZURON (CHMTRA)	ORANGE	DORSCHNER	CITRUS FRUIT GROUP (10)

Residue Data Requirements:

E/CS Data Requirements:

Reasons for Need: CITRUS PSYLLID

Use Pattern: (PCR): ULV APPLICATION; FOGGING WITH 3-5 GPA

Comments: RESIDUE DATA REQUIRED FOR ULV APPLICATION <5 GPA; TRIALS ON REGULAR SIZED AND SMALL SIZED ORANGE VARIETY & GRAPEFRUIT. FUTURE SUBMISSION OF ORANGE (10156) WILL INCLUDE GRAPEFRUIT (10157) AND TANGERINE (10155). MFG SUBMITTING IR-4 DATA:09/09.

PR #: 10156 **LAB:** 09-PTR01

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD	CANADA - FRD
		09-FL64 Johnson, Mr. Robert R.		
		09-FL65 Johnson, Mr. Robert R.		
		09-FL66 Johnson, Mr. Robert R.		

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
DIFLUBENZURON (CHMTRA)	PEACH, PLUM	BARNEY	STONE FRUIT GROUP (12)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: PLUM CURCULIO, ORIENTAL FRUIT MOTHE, PEACH TWIG BORER, CODLING MOTH, KATYDID

Use Pattern: (PCR): 0.125-0.25 LB.AI/A; FOLIAR,2 APPLIC; 21 DAY RE-TREATMENT INTERVAL; 14 DAYS PHI; ALLOW APPLICATION AFTER BLOOM IS COMPLETE

Comments: MFG HAS DATA FROM 5 PEACH & 3 PLUM TRIALS (2005), WILL CO-FUND & ANALYZE SAMPLES:06/08. FUTURE SUBMISSION FOR PEACH (8664, 9599), PLUM (10111), ALFALFA (6878), CARROT (8643) & PEANUT (9891) ALSO INCLUDE STONE FRUITS: APRICOT (10110) & NECTARINE (10112) EXCEPT CHERRIES.

PR #: 08664 **LAB:** 09-BER03

NER - FRD		NCR - FRD		SOR - FRD		WSR - FRD		CANADA - FRD
09-NJ04	Freiberger, Tom	09-MI17	Wise, Dr. John C.	09-NC07	Batts, Roger B.	09-CA39	Skiles, Keri	
09-NJ05	Freiberger, Tom			09-AR05	Burgos, N.	09-CA41	Skiles, Keri	
						09-CA43	Stewart, D.	
						09-CA38	Stewart, D.	
						09-CA40	Skiles, Keri	
						09-CA42	Skiles, Keri	
						09-WA18	Groenendale, D.	

DIFLUBENZURON (CHMTRA)	ALFALFA	BARNEY	NONGRASS ANIMAL FEEDS GROUP (18)

Residue Data Requirements: COMPLETE

E/CS Data Requirements: NONE

Reasons for Need: GRASSHOPPERS, MORMON CRICKET

Use Pattern: (PCR): 0.0325 LB.AI/A; AERIAL APPLIC: 1-5 GAL/A; GROUND APPLIC: 20-30 GAL/A; ONE APPLIC/CUTTING; 14 DAY PHI

Comments: MFG WILL ANALYZE RESIDUE SAMPLES:09/02. RULE: SEC 18 TLT TO 12/31/11. THREE YEAR STUDY:05/07. 2008 STUDIES NEEDED BOTH 1X AND 3X RATE (FORAGE, HAY & SEED) (A8678):05/07. MFG FUNDING 2008 FIELD TRIALS:10/07. FUTURE SUBMISSION FOR PEACH (8664, 9599), PLUM (10111), ALFALFA (6878), CARROT (8643) & PEANUT (9891) ALSO INCLUDE STONE FRUITS: APRICOT (10110) & NECTARINE (10112) EXCEPT CHERRIES.

PR #: A8678 **LAB:** 08-BER01

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD		CANADA - FRD
			09-WA28	Groenendale, D.	

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
DINOTEFURAN (GOWAN,MITSUI,VALENT)	ONION (DRY BULB)	LEONARD	BULB VEGETABLE GROUP (03-07A)

Residue Data Requirements: COMPLETE

E/CS Data Requirements: NONE

Reasons for Need: THRIPS TABACI, ONION THRIPS, WESTERN FLOWER THRIPS

Use Pattern: (PCR): 0.045 - 0.134 LB.AI/A; 2-4 WEEKLY FOLIAR APPLIC AS NEEDED IN 50-60 GPA; 1 TO 7-DAY PHI

Comments: ONION (GREEN) STUDY IN FIELD IN 2006. AUSTRALIA HAS INTEREST:11/06. FUTURE SUBMISSION FOR CRANBERRY (9832), DRY BULB ONOIN (8645), GREEN ONION (9550), PEACH (9548) & WATERCRESS (9514) WILL INCLUDE CHIVES (8596).

PR #: 08645 **LAB:** 07-MIR07

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD	CANADA - FRD
			09-NM02 Craig, Maury (NMSU)	

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
DIQUAT (SYNGEN)	CANOLA	CORLEY	MISCELLANEOUS COMMODITY (99)

Residue Data Requirements: 5

E/CS Data Requirements:

Reasons for Need: DESICCATION

Use Pattern: (PCR): 24-30 OZ PRODUCT/A; MAKE 1 FOLIAR APPLIC BY GROUND (20 GPA) OR AIR (MINIMUM 5 GPA); ADD A NONIONIC SURFACTANT CONTAINING 75% OR GREATER ACTIVE AGENT AT 0.06-0.5% V/V; 7-DAY PHI

Comments: MFG DOES NOT HAVE ANY RESIDUE DATA:08/08; CANADA & AUSTRALIA HAVE LABELS FOR THIS USE:10/08

PR #: 10091 **LAB:** 09-MIR05

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD	CANADA - FRD
	09-SD06 Clay, Dr. Sharon	09-NC24 Batts, Roger B.	09-WA09 Groenendale, D.	
	09-ND09 Jenks, Dr. Brian		09-WA*10 Harvey, John	
	09-ND10 Jenks, Dr. Brian		09-ID11 Meeks, Mr. Will	
	09-SD05 Clay, Dr. Sharon			

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
EMAMECTIN BENZOATE (SYNGEN)	CANTALOUPE	LEONARD	MELON SUBGROUP (09A)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: PICKLEWORM, CABBAGE LOOPERS, ARMYWORMS

Use Pattern: (PCR): 0.007-0.015 LB/A; 30-60 GPA; 7-14 DAYS AS NEEDED

Comments: FUTURE SUBMISSION FOR CUCUMBER (6987), SQUASH (8939), BASIL (7137) & CANTALOUPE (8940) WILL INCLUDE PUMPKIN (8941).

PR #: 08940 **LAB:** 09-MOR10

NER - FRD		NCR - FRD		SOR - FRD		WSR - FRD		CANADA - FRD
09-MD23	Ross, Marylee	09-OH*15	Horst, Leona	09-TX34	Gregg, Ms. Lori	09-CA120	Farrar, Mr. Chuck	
		09-WI18	Chapman, S.	09-TX*35	McCommas, Mr.David	09-CA130	Boutwell, Brent	
				09-SC*10	Wade, Paul	09-CA131	Stewart, D.	
						09-CA132	Ennes, D. (Kearney)	

EPTC (GOWAN)	WATERMELON	BARNEY	MELON SUBGROUP (09A)

Residue Data Requirements: 10

E/CS Data Requirements: COMPLETE

Reasons for Need: YELLOW & PURPLE NUTSEDGE

Use Pattern: (PCR): 3.5 LB.AI/A; APPLY PRE OR PRETRANSPLANT TO SOIL SURFACE AND APPLY MULCH IMMEDIATELY; WAIT 7 DAYS BEFORE TRANSPLANTING TO AVOID PHYTO AND YIELD REDUCTION; MUST BE APPLIED UNDER POLY OR OTHER MULCHES

Comments: MUST BE APPLIED UNDER POLY OR OTHER MULCHES; MFG DOING EFFICACY & PHYTO TRIALS: 08/07; CA (J. NUNEZ) REQUEST FOR NON-PLASTIC (MFG WILL NOT SUPPORT THIS USE): 09/07

PR #: 09991 **LAB:** 08-CAR03

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD		CANADA - FRD
			09-CA05	Ennes, D. (Kearney)	

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
ESFENVALERATE (DUPONT)	CANOLA	DORSCHNER	MISCELLANEOUS COMMODITY (99)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: LEPIDOPTERANS, APHIDS, WEEVILS

Use Pattern: (PCR): 2.9-9.6 OZ ASANA XL PER ACRE; FOLIAR APPLIC; DO NOT USE AN OIL-BASED ADJUVANT

Comments: PETITION FOR STUDY 05150/9E5075/SUB:02/99 WITHDRAWN:11/08. NEW STUDY A5150 IS TO REQUEST OIL SEED CROP GROUP:11/08. ADDITIONAL TRIALS NEEDED FOR SEED ONLY (NO PROCESSING DATA REQUIRED):07/08.

PR #: A5150 **LAB:** 09-FLR19

NER - FRD	NCR - FRD		SOR - FRD	WSR - FRD	CANADA - FRD
	09-SD01	Clay, Dr. Sharon			
	09-ND15	Jenks, Dr. Brian			
	09-ND16	Jenks, Dr. Brian			

ETHEPHON (BAYER,MANA)	FIG	CORLEY	MISCELLANEOUS COMMODITY (99)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: TO REDUCE BREBA CROP

Use Pattern: (PCR): 300-500 PPM; FOLIAR ON THE PREVIOUS FALL OR VERY EARLY SPRING APPLIC; 1 APPLIC; 120-248 DAYS BEFORE HARVEST; AT 500 PPM TO REDUCE FLOWER DIFFERENTIATIONS ON BREBAS APPLIDED DURING 10-20% LEAF DROP PREVIOUS YEAR; AT 300 PPM APPLIED WHEN BREBA FRUIT FIRST START TO FORM

Comments: MANA OK:09/08 (WORKSHOP).

PR #: 10115 **LAB:** 09-CAR16

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD		CANADA - FRD
			09-CA77	Ennes, D. (Kearney)	
			09-CA78	Ennes, D. (Kearney)	
			09-CA79	Stewart, D.	
			09-CA80	Stewart, D.	

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
ETHOFUMESATE (BAYER)	CARROT	ARSENOVIC	ROOT SUBGROUP (01AB)

Residue Data Requirements: COMPLETE
E/CS Data Requirements:
Reasons for Need: ANNUAL BROADLEAF WEEDS
Use Pattern: (PCR): 1.0 - 2.0 LB.AI/A; SAME DIRECTIONS FOR USE AND LIMITATIONS AS ON CURRENT LABEL IN WA & OR
Comments: FUTURE SUBMISSION FOR CARROT (9918) & SMALL GRAINS (9882).

PR #: 09918 **LAB:** 08-NYR06

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD	CANADA - FRD
			09-NM01 Craig, Maury (NMSU)	

ETHOPROP (BAYER)	MINT	SAMOIL	MISCELLANEOUS COMMODITY (99)

Residue Data Requirements: COMPLETE
E/CS Data Requirements:
Reasons for Need: GARDEN SYMPHYLAN
Use Pattern: (PCR): 3 LB.AI/A; MAKE ONE APPLIC OF EITHER EC OR GRANULAR FORMULATION; DO NOT APPLY THROUGH IRRIGATION SYSTEMS; 90 DAY PHI
Comments: SEE PR# 4012 FOR EARLIER SUB FOR ETHOPROP ON MINT. 6 LB RATE, 240 DAY PHI IF SOIL MOISTURE IS LOW, IRRIGATION IMMEDIATELY AFTER APPLIC MAY INCREASE EFFICACY AND DECREASE VOLATILITY. EPA CAUTION:08/08.

PR #: 10049 **LAB:** 08-CAR11

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD	CANADA - FRD
	09-WI07 Heider, Daniel J.		09-WA11 Groenendale, D.	
	09-WI08 Heider, Daniel J.			

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
ETOFENPROX (WELMRK)	ALFALFA, LETTUCE (LEAF), GRASSE	DORSCHNER	MISCELLANEOUS COMMODITY (99)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: TO REMOVE CROPLAND AND PASTURELAND LABEL RESTICTIONS

Use Pattern: (PCR): 1X AND 10X RATE; 1 APPLIC; 12-HOUR PHI

Comments: PRODUCT IS REGISTERED FOR CONTROL OF ADULT MOSQUITOES; THE NEED IN THIS REQUEST IS TO REMOVE CROPLAND AND PASTURELAND RESTRICTIONS FROM THE LABEL, BY ESTABLISHING AN ALL-CROPS TOLERANCE THROUGH AERIALLY-APPLIED RESIDUE TRIALS ON THREE CROPS IN REGION 3 (SNAP BEAN, LEAF LETTUCE, GRASSES) AND THREE CROPS IN REGION 10 (ALFALFA, LEAF LETTUCE, GRASSES): 07/09

PR #: 10315 **LAB:** 09-NYR01

NER - FRD	NCR - FRD	SOR - FRD		WSR - FRD		CANADA - FRD
		09-FL70	Studstill, David	09-CA136	Stewart, D.	

ETOXAZOLE (VALENT)	PLUM		DORSCHNER	STONE FRUIT GROUP (12)

Residue Data Requirements:

E/CS Data Requirements:

Reasons for Need: TWO SPOTTED SPIDER MITE, EUROPEAN RED MITE

Use Pattern: (PCR): 0.17 LB.AI/A; FOLIAR AIRBLAST APPLIC; 1 APPLIC/SEASON; 7-14 DAY PHI

Comments: SUBMISSION FOR IR-4 DATA ON PEACH (9045), CUCUMBER (9208), GREENHOUSE TOMATO (9109), MINT (8816) & MFG DATA ON PLUM (9046); SUBMITTED REDUCED RISK PROPOSAL: 08/08; EPA REQUIRES A SINGLE PROCESSING (DRYING) TRIAL IN REGION 10: 03/09

PR #: A9046 **LAB:** 09-CAR17

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD		CANADA - FRD
			09-CA133	Stewart, D.	

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
FAMOXADONE + CYMOXANIL (DUPONT)	CARROT	HOMA	ROOT SUBGROUP (01AB)

Residue Data Requirements: COMPLETE
E/CS Data Requirements: NONE
Reasons for Need: ALTERNARIA LEAF BLIGHT
Use Pattern: (PCR): 0.27 LB.AI/A; 50 GPA; EVERY 14 DAYS; 7 DAY PHI
Comments:

PR #: 08875 **LAB:** 09-TIR07

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD	CANADA - FRD
	09-OH*12 Horst, Leona	09-TX*31 McCommas, Mr.David	09-WA*29 Harvey, John	
		09-SC*09 Wade, Paul	09-CA121 Boutwell, Brent	
		09-GA*13 Fraelich, Ben	09-CA*122 Benzen, Ms. Sharon D.	
			09-CA*123 Benzen, Ms. Sharon D.	
			09-CA*124 Benzen, Ms. Sharon D.	

FENPROPATHRIN (VALENT)	SWEET POTATO	SAMOIL	TUBEROUS/CORM SUBGROUP (01CD)

Residue Data Requirements: COMPLETE
E/CS Data Requirements:
Reasons for Need: LEP. LARVAE, BEETLES, MITES
Use Pattern: (PCR): 0.2 LBS; 25 TO 120 GPA; 7 DAY PHI; APPLY EVERY 7 DAYS AS NEEDED
Comments: EPA CAUTION:08/08. FUTURE SUBMISSION FOR MUSTARD GREENS (09266) & SWEET POTATO (7946) INCLUDES COLLARDS.

PR #: 07946 **LAB:** 09-TIR06

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD	CANADA - FRD
09-MD21 Ross, Marylee		09-NC28 Batts, Roger B.	09-CA119 Skiles, Keri	
09-MD22 Ross, Marylee		09-NC29 Batts, Roger B.		
		09-AR11 Burgos, N.		
		09-FL45 Studstill, David		
		09-TX*29 McCommas, Mr.David		

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
FENPROPATHRIN (VALENT)	GREENS (MUSTARD)	SAMOIL	LEAFY BRASSICA GREENS SUBGROUP (05B)

Residue Data Requirements: COMPLETE
E/CS Data Requirements:
Reasons for Need: HARLEQUIN BUG, GREEN PEACH APHID
Use Pattern: (PCR): NONE GIVEN
Comments: EPA CAUTION:08/08. ORIGINAL REQUEST FOR COLLARD; FUTURE SUBMISSION FOR MUSTARD GREENS (09266) & SWEET POTATO (7946) INCLUDES COLLARDS.

PR #: 09266 **LAB:** 09-TIR01

NER - FRD	NCR - FRD		SOR - FRD		WSR - FRD		CANADA - FRD
	09-OH*03	Horst, Leona	09-TX*20	McCommas, Mr.David	09-CA*49	Benzen, Ms. Sharon D.	
			09-GA*04	Fraelich, Ben	09-CA*50	Benzen, Ms. Sharon D.	
			09-SC*04	Wade, Paul			
			09-GA*05	Fraelich, Ben			
			09-AR06	Burgos, N.			

FENPROPATHRIN (VALENT)	BARLEY	SAMOIL	CEREAL & GRAIN GROUP (15-16)

Residue Data Requirements: COMPLETE
E/CS Data Requirements:
Reasons for Need: THRIPS, CEREAL LEAF BEETLE, APHIDS
Use Pattern: (PCR): FOLIAR; 0.2 LB.AI/A; 1 APPLIC IN PRE-BOOT STAGE
Comments: EPA REQUIRES A SINGLE FIELD TRIAL WITH PROCESSING:08/08. EXPEDITE:10/08.

PR #: A7667 **LAB:** 09-TIR02

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD		CANADA - FRD
			09-CA35	Stewart, D.	

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
FENPYROXIMATE (NAI)	POTATO	LEONARD	TUBEROUS/CORM SUBGROUP (01CD)

Residue Data Requirements: 3

E/CS Data Requirements:

Reasons for Need: POTATO PSYLLID

Use Pattern: (PCR): 32 OZ.PRODUCT/A; FOLIAR APPLIC; 7 DAY RE-TREATMENT INVERVAL; 7-DAY PHI

Comments: FUTURE SUBMISSION FOR SNAP BEAN (9942), CUCUMBER (9032), AVOCADO (10007), POTATO (10173) ALSO INCLUDE MANGO (9217).

PR #: 10173 **LAB:** 09-MIR02

NER - FRD		NCR - FRD		SOR - FRD		WSR - FRD		CANADA - FRD
09-NY10	Bellinder, Dr. Robin	09-WI16	Chapman, S.	09-NC18	Batts, Roger B.	09-CO11	Loiz, Meghan	
09-NY11	Jordan, Mr. Grant	09-WI12	Chapman, S.	09-FL07	Studstill, David	09-CA97	Boutwell, Brent	
		09-OH*09	Horst, Leona			09-WA05	Groenendale, D.	
		09-MI11	Zandstra, Dr. Bernard H.			09-WA06	Groenendale, D.	
						09-WA*07	Harvey, John	
						09-WA*08	Harvey, John	
						09-ID12	Meeks, Mr. Will	
						09-ID13	Meeks, Mr. Will	
						09-NM17	Craig, Maury (NMSU)	

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
FENPYROXIMATE (NAI)	CUCUMBER	LEONARD	SQUASH/CUCUMBER SUBGROUP (09B)

Residue Data Requirements: COMPLETE

E/CS Data Requirements: NONE

Reasons for Need: MITES

Use Pattern: (PCR): 0.4 LB.AI/A; 2 FOLIAR APPLIC; 0 DAY PHI

Comments: (FIELD) SEE PR# 9735 FOR GREENHOUSE USE AT 1-3 DAY PHI & SEE PR# 10109 FOR GREENHOUSE USE AT 7 DAY PHI. FUTURE SUBMISSION FOR SNAP BEAN (9942), CUCUMBER (9032), AVOCADO (10007), POTATO (10173) ALSO INCLUDE MANGO (9217).

PR #: 09032 **LAB:** 09-MIR01

NER - FRD	NCR - FRD		SOR - FRD		WSR - FRD		CANADA - FRD
	09-OH*01	Horst, Leona	09-TX*21	McCommas, Mr.David	09-CA44	Boutwell, Brent	
	09-OH*02	Horst, Leona	09-SC*05	Wade, Paul	09-AZ*04	Miller, Barry	
			09-SC*06	Wade, Paul			
			09-GA*02	Fraelich, Ben			
			09-GA*03	Fraelich, Ben			
			09-NC08	Batts, Roger B.			

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
FLONICAMID (FMC,ISK)	ALFALFA (SEED CROP)	SAMOIL	NONGRASS ANIMAL FEEDS GROUP (18)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: LYGUS BUGS, APHIDS

Use Pattern: (PCR): 2.8 OZ/A; APPLY BY AIR OR GROUND EQUIPMENT WHEN INSECT PRESSURE IS OBSERVED; USE SUFFICIENT GPA FOR ADEQUATE COVERAGE; MAX 2 APPLIC PER CROP; NO PHI SPECIFIED

Comments: 24(C) IN PNW:09/07. OR REQUESTED TO INCLUDE OTHER FORAGE SEED CROPS, SPECIFICALLY RED CLOVER (SEED CROP). FUTURE SUBMISSION FOR ALFALFA (9943), CANOLA (9783), CUCUMBER (8551) & STRAWBERRY (9604).

PR #: 09943 **LAB:** 09-WUR02

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD		CANADA - FRD
			09-CA64	Boutwell, Brent	
			09-WA12	Groenendale, D.	
			09-ID09	Meeks, Mr. Will	
			09-OR18	Koskela, Ms. Gina	
			09-OR19	Koskela, Ms. Gina	
			09-CA65	Boutwell, Brent	

FLUDIOXONIL (SYNGEN)	CARAMBOLA	THOMPSON	MISCELLANEOUS COMMODITY (99)

Residue Data Requirements: COMPLETE

E/CS Data Requirements: COMPLETE

Reasons for Need: DITHIORELLA FUNGUS STEM END ROT

Use Pattern: (PCR): 16-33 OZ.PRODUCT/100 GAL FOR POSTHARVEST CONTROL; MIX WITH CLEAN WATER; DIP FRUIT FOR 1-2 MINUTES

Comments: (POSTHARVEST) WILL BE COVERED BY GUAVA (NO RESIDUE WORK NEEDED); EFFICACY NEEDED ON ANY TROPICAL CROPS; AUSTRALIA DOING EFFICACY WORK:11/07. FUTURE SUBMISSION FOR GINSENG (9349) INCLUDE CARAMBOLA (9912), BLUEBERRY (10079), SUBGROUP 03-07A (10522), SUBGROUP 03-07B (10523), SUBGROUP 13-07A (10524), SUBGROUP 13-07B (10525), SUBGROUP 13-07F (10526), SUBGROUP 13-07G (10527) & TROPICAL FRUITS: SUGAR APPLE (10517), LYCHEE (10518), PAPAYA (10519), AVOCADO (10520), GUAVA (10521).

PR #: P9912 **LAB:** NONE

NER - FRD	NCR - FRD	SOR - FRD		WSR - FRD	CANADA - FRD
		09-FLP05	Ploetz, Dr. Randy		
		09-FLP06	Ploetz, Dr. Randy		

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
FLUDIOXONIL (SYNGEN)	PINEAPPLE (PH)	THOMPSON	MISCELLANEOUS COMMODITY (99)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: SURFACE MOLDS: PENICILLIUM SP & CLADOSPORIUM SP

Use Pattern: (PCR): 0.25-0.50 LB.AI/100 GAL; POSTHARVEST FRUIT DIP OR SPRAY; 1 APPLIC; 0-DAY PHI; DIP: WP=8-16OZ/100 GAL; SC=16-32 FL.OZ/100 GAL; MIX IN AN APPROPRIATE WATER, WAX/EMULSION, OR AQUEOUS DILUTION OF WAX/OIL EMULSION. DIP FOR 30 SECONDS & ALLOW TO DRAIN. HIGH VOLUME APPLIC: SAME RATE OF EITHER FORMULATION BUT IN 25-100 GAL; MIX IN AN APPROPRIATE WATER, WAX/EMULSION, OR AQUEOUS DILUTION OF WAX/OIL EMULSION; USE T-JET FLOODERS OR SIMILAR APPLIC SYSTEM; ONLY 1 POSTHARVEST APPLIC TO THE FRUIT

Comments:

PR #: 10203 **LAB:** 09-HIR01

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD		CANADA - FRD
			09-HI02	Coughlin, Julie	
			09-HI03	Coughlin, Julie	
			09-HI04	Coughlin, Julie	
			09-HI05	Coughlin, Julie	

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
FLUMIOXAZIN (VALENT)	BROCCOLI	ARSENOVIC	HEAD/STEM BRASSICA SUBGROUP (05A)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: PURLSAND, PIGWEED, GLYPHOSATE-RESISTANT PALMER AMARANTH

Use Pattern: (PCR): UP TO 0.128 (4 OZ.PRODUCT/A); ROW MIDDLE TREATMENT PRIOR TO TRANSPLANTING CROP APPLIC; 1 APPLIC

Comments: FUTURE SUBMISSION FOR ARTICHOKE (9815), BROCCOLI (10224), OLIVE (8670), POMEGRANATE (8671) & BLACKBERRY (10249) FOR 7-DAY PHI REQUEST ALSO INCLUDE RASPBERRY (10229) & BLACKBERRY FOR PRE-EMERGENCE, OVER THE TOP & POST DIRECTED TRT (9700).

PR #: 10224 **LAB:** 09-YAR04

NER - FRD	NCR - FRD	SOR - FRD		WSR - FRD		CANADA - FRD	
		09-TX02	Gregg, Ms. Lori	09-CA108	Farrar, Mr. Chuck	09-ON10	White, Peter
				09-NM14	Craig, Maury (NMSU)	09-ON11	White, Peter
				09-CA109	Boutwell, Brent	09-QC06	Jobin, Tristan
				09-CA*110	Benzen, Ms. Sharon D.	09-QC07	Jobin, Tristan
				09-OR07	Koskela, Ms. Gina		

FLUMIOXAZIN (VALENT)	CANEBERRY (BLACKBERRY)	ARSENOVIC	BERRY & SMALL FRUIT (13-07A)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: BROADLEAF WEEDS, ANNUAL GRASSES

Use Pattern: (PCR): UP TO 12 OZ/A OF CHATEAU; POST DIRECTED APPLICATIONS; MAX 12 OZ/A IN A 12-MONTH PERIOD; 60-DAY RE-TREATMENT INTERVAL; 7-DAY PHI; POST DIRECTED ON ESTABLISHED PLANTS (>6 MONTHS); NOT FOR USE ON NEW TRANSPLANTS

Comments: FUTURE SUBMISSION FOR ARTICHOKE (9815), BROCCOLI (10224), OLIVE (8670), POMEGRANATE (8671) & BLACKBERRY (10249) FOR 7-DAY PHI REQUEST; ALSO INCLUDE RASPBERRY (10229) & BLACKBERRY FOR PRE-EMERGENCE, OVER THE TOP & POST DIRECTED TRT (9700)

PR #: 10249 **LAB:** 09-YAR03

NER - FRD		NCR - FRD		SOR - FRD		WSR - FRD		CANADA - FRD	
09-ME03	Yarborough, Dr. Dave	09-MI01	Zandstra, Dr. Bernard H.			09-CA116	Skiles, Keri	09-QC09	Jobin, Tristan
09-NJ10	Freiberger, Tom					09-OR01	DeFrancesco, Mr. Joe		
						09-OR02	DeFrancesco, Mr. Joe		
						09-OR03	DeFrancesco, Mr. Joe		

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
GLOBAL RESIDUE STUDY (SYNGEN)	TOMATO	BRAVERMAN	FRUITING VEGETABLE GROUP (08)

Residue Data Requirements: SEE PROTCOL, 2 US TRIALS

E/CS Data Requirements:

Reasons for Need: TO TEST THE INFLUENCE OF VARIOUS GEOGRAPHIC LOCATIONS ON THE ULTIMATE PESTICIDE RESIDUES

Use Pattern: (PCR): BOTH REVUS TOP & ENDIGO WILL BE APPLIED AS A SINGLE TANK MIX

Comments: GLOBAL STUDY TO STANDARDIZE APPLICATION WITH THE USE OF REVUS TOP 500 SC (250 + 250 G AI/LITER FORMULATION OF MANDIPROPAMID AND DIFENOCONAZOLE) AND ENDIGO 1.18 SC (FORMULATON OF THIAMETHOXAM 141 G AI/L PLUS LAMBDA-CYHALOTHRIN 106 G AI/L)

PR #: 10273 **LAB:** 09-MD

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD	CANADA - FRD
G09-US11 Ross, Marylee			G09-US12 Farrar, Mr. Chuck	G09-CD7 Riddle, Geoff G09-CD8 Bedford, Karen

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
HALOSULFURON (GOWAN)	GRAPE	LEONARD	BERRY & SMALL FRUIT (13-07F)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: NUTSEDGE, BROADLEAF WEEDS

Use Pattern: (PCR): 0.5-1.33 OZ/A; DIRECT SPRAY TO BASE OF GRAPEVINES; APPLY TO ACTIVELY GROWING YELLOW NUTSEDGE THAT IS 4-6 INCHES HIGH; ALWAYS INCLUDE A NON-IONIC SURFACTANT.

Comments: MFG ONLY SUPPORTS EAST OF ROCKIES, CONCORD GRAPES ONLY:09/07. REQUIRES ADDITIONAL 2009 TRIALS FOR REGIONAL LABEL (1-2 TIRALS):06/08. MFG EVALUATION FOR WINE GRAPES ON GOING:09/08. FUTURE SUBMISSION FOR ARTICHOKE (9930), BLACKBERRY (9793), GRAPE (7768) & PEAR (9722).

PR #: 07768 **LAB:** 08-TIR06

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD	CANADA - FRD
09-NJ02 Freiberger, Tom			09-OR27 Koskela, Ms. Gina	

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
HEXYTHIAZOX (GOWAN)	PEPPER (BELL & NON-BELL)	SAMOIL	FRUITING VEGETABLE GROUP (08)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: MITES

Use Pattern: (PCR): 0.188 LB.AI/A; FOLIAR SPRAY EVERY 7-14 DAYS; 7 DAY PHI

Comments: (FIELD & GH) DOES NOT CONTROL WHITEFLIES. MFG APPROVAL AT WORKSHOP FOR MITE CONTROL:09/06. MFG APPROVAL TO ADD GREENHOUSE USES:07/07. FUTURE SUBMISSION FOR PEPPER (9818) & TOMATO (8137).

PR #: 09818 **LAB:** 09-WUR01

NER - FRD	NCR - FRD		SOR - FRD		WSR - FRD		CANADA - FRD
	09-WI17	Chapman, S.	09-GA*08	Fraelich, Ben	09-CA125	Ennes, D. (Kearney)	
	09-OH*08	Horst, Leona	09-GA*09	Fraelich, Ben	09-CA59	Farrar, Mr. Chuck	
	09-OH*07	Horst, Leona	09-TX*15	McCommas, Mr.David	09-CA61	Ennes, D. (Kearney)	
			09-FL41	Studstill, David	09-AZ*02	Miller, Barry	
			09-TX*14	McCommas, Mr.David	09-CA60	Boutwell, Brent	
			09-SC*02	Wade, Paul			

HEXYTHIAZOX (GOWAN)	TOMATO (GH)	SAMOIL	FRUITING VEGETABLE GROUP (08)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: SPIDER MITES

Use Pattern: (PCR): 0.375 LB; ONE APPLIC/SEASON

Comments: (GREENHOUSE) MFG PROVIDED EUROPE DATA:10/02. EPA REQUIRES ADDITIONAL DATA:03/06. AZ REQUESTS ULV APPLICATION:05/07. 2007 TRIALS CONDUCTED WERE 3 LARGE FRUIT & 1 SMALL FRUIT, NEED 1 SMALL-FRUIT TRIAL:11/08. FUTURE SUBMISSION FOR PEPPER (9818) & TOMATO (8137).

PR #: 08137 **LAB:** 07-WUR02

NER - FRD	NCR - FRD	SOR - FRD		WSR - FRD	CANADA - FRD
		09-FL67	Studstill, David		

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
IMAZOSULFURON (VALENT)	CANTALOUPE	LEONARD	MELON SUBGROUP (09A)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: WEEDS, NUTSEDGE

Use Pattern: (PCR): 0.1-0.3 LB; APPLY OVER THE TOP OF CROP AND WEEDS POSTEMERGENCE, WITH SURFACTANT

Comments: MFG SUPPORTS ROW MIDDLES ONLY:07/07. ORIGINAL PCR FOR WATERMELON:02/08. FUTURE SUBMISSION FOR CANTALOUP (9819) & POTATO (9645) WILL INCLUDE WATERMELON.

PR #: 09819 **LAB:** 08-MIR11

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD		CANADA - FRD
			09-CA62	Boutwell, Brent	
			09-NM11	Craig, Maury (NMSU)	
			09-AZ*03	Miller, Barry	

INDOXACARB (DUPONT)	GRASSES (SEED)	CORLEY	GRASS FORAGE, FODDER & HAY GROUP (17)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: FALL ARMYWORM, CUTWORMS, LEP. INSECTS

Use Pattern: (PCR): 0.065 - 0.09 LB.AI/A; 50 GPA; FOLIAR SPRAY

Comments: EPA CAUTION:08/08. GROWN FOR SEED ONLY IN PNW:09/08. SOR DROP (WORKSHOP):09/08. FUTURE SUBMISSION FOR GRASSES (SEED) (9521), SUBGROUP 13-07F (10339) & SUBGROUP 13-07H (10340).

PR #: 09521 **LAB:** 09-MIR06

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD		CANADA - FRD
			09-OR21	Koskela, Ms. Gina	
			09-OR22	Koskela, Ms. Gina	
			09-OR23	Koskela, Ms. Gina	
			09-WA13	Groenendale, D.	

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
KASUGAMYCIN (ARYSTA)	TOMATO (GH & FIELD)	THOMPSON	FRUITING VEGETABLE GROUP (08)

Residue Data Requirements:

E/CS Data Requirements:

Reasons for Need: XANTHOMONAS LEAF SPOT, BACTERIAL CANKER (CALVIBACTER)

Use Pattern: (PCR): 64 FLD.OZ/A (100 PPM); 50 GALLONS/A; 3 TO 5 WEEKLY APPLIC; 7-DAY PHI

Comments: MFG COMPLETING ALL EFATE DATA REQUIREMENTS FOR EPA: 09/06; POTENTIAL FOR SECTION 18: 07/08; MFG FUTURE SUBMISSION TO INCLUDE IR-4 DATA FOR TOMATO (GH & FIELD) (9797, 9784), APPLE (9773), PEAR (9619), WALNUT (9772) & PEPPER (GH & FIELD) (9802): 01/10. STABILITY STUDY IN FROZEN TOMATO MATRICES INITIATED 12/3/09 (A9797)

PR #: 09797 **LAB:** 07-FLR05

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD	CANADA - FRD
		09-FL40 Studstill, David		

KASUGAMYCIN (ARYSTA)	CHERRY	THOMPSON	STONE FRUIT GROUP (12)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: BACTERIAL CANKER

Use Pattern: (PCR): 37.85 GRAMS (2 QTS PRODUCT)/100 GAL WATER; FOLIAR APPLIC; 3 TO 5 APPLIC; APPROX. EVERY 2 WEEK RE-TREATMENT INTERVAL; 30-DAY PHI; THORUGH COVERAGE WITH AIRBLAST SPRAYER

Comments: CANADA COMPLETED TRIALS IN 2007: A DECLINE STUDY, REGION 5-3 (SOUR) TRIALS & REGION 11-2 (SWEET) TRIALS:11/08. FUTURE SUBMISSION FOR TOMATO (GH & FIELD) (9797, 9784), APPLE (9773), CHERRY (10230), PEAR (9619) & PEPPER (GH & FIELD) (9802).

PR #: 10230 **LAB:** 09-WUR04

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD	CANADA - FRD
09-NY18 Palmer, Mr. W.H.	09-MI03 Wise, Dr. John C.		09-CA111 Ennes, D. (Kearney)	
	09-MI06 Wise, Dr. John C.		09-CA112 Ennes, D. (Kearney)	
	09-MI04 Wise, Dr. John C.		09-CO13 Loiz, Meghan	
	09-MI05 Wise, Dr. John C.			

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
LAMBDA-CYHALOTHRIN (MANA,SYNGEN)	OKRA	CORLEY	FRUITING VEGETABLE GROUP (08)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: STINK BUGS

Use Pattern: (PCR): 0.02-0.03 LB; 30-50 GPA; FOLIAR SPRAY (RESIDUE TRAILS NEED TO MAKE 3 APPLIC AT 0.03 LB.AI/A ON 7 DAY INTERVAL); 1 DAY PHI (RESIDUE TRIALS NEED SAMPLES TAKEN AT 1 AND 3 DAY PHI)

Comments: NOTE: ALTHOUGH THERE IS A FRUITING VEGETABLE TOLERANCE OF 0.2PPM, THE PHI FOR FRUITING VEG IS 5 DAYS. OKRA NEEDS A 1 OR 3 DAY PHI:05/07. IR-4 TO SUBMIT FOR OKRA TOLERANCE BASED ON FRUITING VEGETABLE DATA:05/08. FUTURE SUBMISSION FOR MUSTARD GREENS (9926) & OKRA (9852) ALSO INCLUDE BROCCOLI RAAB (10255).

PR #: 09852 **LAB:** 09-FLR11

NER - FRD	NCR - FRD	SOR - FRD		WSR - FRD	CANADA - FRD
		09-TX16	Gregg, Ms. Lori		
		09-NC13	Batts, Roger B.		
		09-GA*10	Fraelich, Ben		
		09-TX*13	McCommas, Mr.David		
		09-FL39	Studstill, David		
		09-AR08	Burgos, N.		

LINURON (DUPONT)	BASIL	CORLEY	HERB SUBGROUP (19A)

Residue Data Requirements: COMPLETE

E/CS Data Requirements: CROP SAFETY

Reasons for Need: ANNUAL WEEDS

Use Pattern: (PCR): 0.25-0.5 LB/A; SOIL APPLIC; 1 APPLIC; 60-DAY PHI; APPLY TO SOIL AFTER SEEDING

Comments: MAY REQUIRE INDEMINIFICATION LANGUAGE ON LABEL: 10/08

PR #: 10221 **LAB:** 09-BER02

NER - FRD		NCR - FRD		SOR - FRD		WSR - FRD		CANADA - FRD
09-NY17	Bellinder, Dr. Robin	09-MI07	Hausbeck, Dr. Mary K.	09-FL02	Studstill, David	09-CA*107	Benzen, Ms. Sharon D.	
09-NY21	Bellinder, Dr. Robin					09-CA33	Boutwell, Brent	

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
MANDIPROPAMID (SYNGEN)	BASIL (FIELD & GH)	CORLEY	HERB SUBGROUP (19A)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: DOWNY MILDEW

Use Pattern: (PCR): 8 OZ/A; FOLIAR; 7 DAYS RE-TREATMENT INTERVAL; 7-DAY PHI; 4 APPLIC IN ONE CROP CYCLE; 32 FL.OZ/A/CROP

Comments: (FIELD & GREENHOUSE) FUTURE SUBMISSION FOR BASIL (FIELD & GH) (10124) & GINSENG (10061).

PR #: 10124 **LAB:** 09-MIR03

NER - FRD		NCR - FRD		SOR - FRD		WSR - FRD		CANADA - FRD	
09-MD06	Ross, Marylee	09-WI10	Heider, Daniel J.	09-FL27	Studstill, David	09-CA*84	Benzen, Ms. Sharon D.	09-BC01	Brookes, Ms. Victoria
				09-NC17	Batts, Roger B.				

MEFENOXAM + COPPER (SYNGEN)	TURNIP GREENS	THOMPSON	ROOT SUBGROUP (01AB)

Residue Data Requirements: COMPLETE

E/CS Data Requirements: CROP SAFETY DATA NEEDED FROM MIDWEST AND SOUTHEAST

Reasons for Need: DOWNY MILDEW

Use Pattern: (PCR): 1-2 OZ AI/A; FOLIAR SPRAY; 2 APPLICATIIONS AT A 14-DAY INTERVAL

Comments: TOL ON MUSTARD GREENS WILL ALLOW THIS REQUEST IN THE NEXT MEFENOXAM SUBMISSION:09/04; MFG SUBMITTED FOLLOWING IR-4 REQUEST:12/05; NEED CROP SAFETY DATA FROM CENTRAL US(OH) AND SOUTHEAST:05/09

PR #: P9387 **LAB:** NONE

NER - FRD	NCR - FRD	SOR - FRD		WSR - FRD	CANADA - FRD
		09-SC01	Keinath, Dr. Anthony P.		

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
METALDEHYDE (AMVAC,LONZA)	CLOVER (SEED CROP)	SAMOIL	NONGRASS ANIMAL FEEDS GROUP (18)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: SLUGS

Use Pattern: (PCR): 0.8 LB.AI/A; SOIL APPLIC; 2 APPLIC; 21 DAYS RE-TREATMENT INTERVAL; 180-DAY PHI; BROADCAST TO THE SOIL AFTER PLANTING, RE-APPLY, IF NECESSARY, 21 DAYS LATER; ONLY IN NEWLY ESTABLISHED FIELDS, PLANTED IN EARLY FALL

Comments: GROWN FOR SEED (FEED & GRAZING). EPA CAUTION:08/08. STUDY FOR CLOVER SEED PRODUCTION IN THE NW ONLY:10/08.

PR #: 10105 **LAB:** 09-FLR07

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD		CANADA - FRD
			09-OR16	Koskela, Ms. Gina	
			09-WA30	Groenendale, D.	
			09-OR14	Koskela, Ms. Gina	
			09-OR15	Koskela, Ms. Gina	

METHOXYFENOZIDE (DOWAGR)	SORGHUM	SAMOIL	CEREAL & GRAIN GROUP (15-16)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: SUGARCANE BORER, SOUTHWESTERN CORN BORER, FALL ARMYWORM, BEET ARMYWORM

Use Pattern: (PCR): 0.06-0.09 LB.AI/A OF INTREPID 2F (4-8 FL.OZ.PROD/A); MAKE FOLIAR APPLIC AT 10-14 DAY INTERVALS STARTING AT FIRST SIGN OF EGG HATCH OR WHEN LOCALLY DEFINED THRESHOLDS ARE REACHED; APPLY NO MORE THAN 36 FL.OZ.PROD/A/SEASON; 28-DAY PHI

Comments: SECTION 18 EXEMPTION IN LA:07/08. TIME-LIMITED TOLERANCE UNTIL 12/31/12. FUTURE SUBMISSION FOR BASIL (07241) & SORGHUM (7525).

PR #: 07525 **LAB:** 09-CAR18

NER - FRD	NCR - FRD		SOR - FRD		WSR - FRD		CANADA - FRD
	09-SD02	Clay, Dr. Sharon	09-NC05	Batts, Roger B.	09-NM06	Craig, Maury (NMSU)	
	09-ND11	Ciernia, Mr. Mark	09-AR02	Burgos, N.	09-NM20	Craig, Maury (NMSU)	
	09-ND12	Ciernia, Mr. Mark	09-TX23	Gregg, Ms. Lori			
	09-ND13	Ciernia, Mr. Mark	09-TX24	Gregg, Ms. Lori			
	09-NE06	Spontanski, Jess J.	09-TX25	Gregg, Ms. Lori			
			09-TX26	Gregg, Ms. Lori			

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
METHOXYFENOZIDE (DOWAGR)	BASIL	SWITEK	HERB SUBGROUP (19A)

Residue Data Requirements: COMPLETE
E/CS Data Requirements: NONE
Reasons for Need: LEP. LARVAE
Use Pattern: (PCR): FOLIAR; 0.25 LB.AI/A; 4 APPLIC; 10-14 DAY INTERVAL; 7 DAY PHI
Comments: MFG SUPPORTS 1 DAY PHI:09/08. FUTURE SUBMISSION FOR BASIL (07241) & SORGHUM (7525).

PR #: 07241 **LAB:** 09-FLR22

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD	CANADA - FRD
	09-WI02 Chapman, S.	09-NC04 Batts, Roger B. 09-FL46 Studstill, David	09-NM05 Craig, Maury (NMSU)	09-BC05 Brookes, Ms. Victoria

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
NAPROPAMIDE (UPI)	BASIL	ARSENOVIC	HERB SUBGROUP (19A)

Residue Data Requirements: COMPLETE
E/CS Data Requirements: ADDITIONAL CROP SAFETY DATA TO ADD CROP TO LABEL
Reasons for Need: ANNUAL GRASSES & BROADLEAF WEEDS
Use Pattern: (PCR): 1.0-2.0 LB AI/A, PREEMERGENCE
Comments: SLN CA(1570); NAT TOL 0.1 PPM; SLN NC:5/89; 24(C)NJ 910002; LABEL EXPANSION FOR FL & NY SUBMITTED:8/97; MFG REQUIRES CROP SAFETY DATA:08/06

PR #: P3439 **LAB:** NONE

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD	CANADA - FRD
09-NYP01 Bellinder, Dr. Robin	09-MIP02 Zandstra, Dr. Bernard H.	09-NCP02 Batts, Roger B. 09-FLP03 Stall, Dr. William M.		

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
NICOSULFURON + RIMSULFURON (DUPONT)	SORGHUM (GRAIN)	LEONARD	CEREAL & GRAIN GROUP (15-16)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: GRASSES, BROADLEAF WEEDS

Use Pattern: (PCR): 0.375 OZ/A OF EACH AI; USE ONLY ON ALS RESISTANT SORGHUM THAT IS UP TO 20 INCHES TOALL WITH UPTO AND INCLUDING 6 LEAF-COLLARS; INCLUDE A CROP OIL CONCENTRARTE OR NON-IONIC SURFACTANT (PETROLEUM CROP OIL CONCENTRATE AT 1%, MODIFIED SEED OIL AT 0.15% OR NON-IONIC SURFACTANT AT 0.25%); IN ADDITION, AN AMMONIUM NITROGEN FERTILIZER MUST BE USED AT 2 QTS/A UAN OR 2 LBS/A AMS; IN CROP POSTEMERGENCE-NO SPECIAL DIRECTIONS REQUIRED; FOR PREPLANT BURN DOWN APPLY WITH NON SELECTIVE HERBICIDES; 45-DAY PHI

Comments: FOR USE ON ALS-RESISTANT SORGHUM SEEDS. POSSIBLE FUNDING SUPPORT FROM MFG AND KANSAS GRAIN SORGHUM COMMISSION:10/07.

PR #: 08604 **LAB:** 09-JRF04

NER - FRD	NCR - FRD		SOR - FRD		WSR - FRD		CANADA - FRD
	09-KS01	Nord, Cathy	09-TX22	Gregg, Ms. Lori	09-NM07	Craig, Maury (NMSU)	
	09-NE01	Spontanski, Jess J.					

NOVALURON (CHMTRA,MANA)	CARROT	SAMOIL	ROOT SUBGROUP (01AB)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: CARROT WEEVIL, ROOT WEEVIL, WHITE GRUB, WIREWORM

Use Pattern: (PCR): 0.10 LB.AI/A; 50 GPA; SOIL DIRECTED; 7 DAYS PHI

Comments: CANADIAN RESIDUE STUDY COMPLETED IN 2004:06/08. FUTURE SUBMISSION FOR AVOCADO (9246), LIMA BEAN (9780), CARROT (9522) & CUCUMBER (GH) (10237).

PR #: 09522 **LAB:** 09-FLR05

NER - FRD	NCR - FRD		SOR - FRD		WSR - FRD		CANADA - FRD
	09-OH*05	Horst, Leona	09-GA*07	Fraelich, Ben	09-WA*14	Harvey, John	
			09-TX*17	McCommas, Mr.David	09-CA*54	Benzen, Ms. Sharon D.	
					09-CA*55	Benzen, Ms. Sharon D.	
					09-CA56	Boutwell, Brent	
					09-CA57	Farrar, Mr. Chuck	

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
NOVALURON (CHMTRA,MANA)	BEAN (LIMA)	SAMOIL	SHELLED PEA/BEAN SUBGROUP (06BC)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: PLANT BUGS (WESTERN TARNISHED PLANT BUG), LYGUS HESPERUS, LEP. LARVAE, WHITEFLIES

Use Pattern: (PCR): 14 OZ/A; REPEAT AT 14 DAYS INTERVALS; 3 APPLIC/SEASON; MFG REQUESTS 12 OZ/A (01/07)

Comments: FUTURE SUBMISSION FOR AVOCADO (9246), LIMA BEAN (9780), CARROT (9522) & CUCUMBER (GH) (10237).

PR #: 09780 **LAB:** 09-FLR06

NER - FRD		NCR - FRD		SOR - FRD		WSR - FRD		CANADA - FRD	
09-MD11	Ross, Marylee	09-OH*06	Horst, Leona	09-NC12	Batts, Roger B.	09-CA58	Ennes, D. (Kearney)		
09-MD12	Ross, Marylee					09-ID08	Meeks, Mr. Will		

NOVALURON (CHMTRA,MANA)	CUCUMBER (GH)	SAMOIL	SQUASH/CUCUMBER SUBGROUP (09B)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: SUPPRESSION OF WHITEFLIES, THRIPS, LEPS

Use Pattern: (PCR): 0.04-0.08 LB.AI/A; 50 GPA; APPLIC EVERY OTHER WEEK; FOLIAR APPLIC; 0-1 DAY PHI

Comments: (GREENHOUSE) SEE PR# 08988 FOR FIELD USE. FUTURE SUBMISSION FOR AVOCADO (9246), LIMA BEAN (9780), CARROT (9522) & CUCUMBER (GH) (10237).

PR #: 10237 **LAB:** 09-FLR08

NER - FRD		NCR - FRD		SOR - FRD		WSR - FRD		CANADA - FRD	
				09-TX01	Gregg, Ms. Lori	09-CO14	Loiz, Meghan	09-ON12	Weber-Henricks, Mary
								09-BC03	Brookes, Ms. Victoria

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
NOVALURON (CHMTRA,MANA)	AVOCADO	SAMOIL	MISCELLANEOUS COMMODITY (99)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: LEP. LARVAE

Use Pattern: (PCR): 1.67 LB/A; APPLY EVERY 14 DAYS AS NEEDED; 7 DAYS PHI

Comments: FOR IMPORT TOLERANCE IN CANADA, USE IR-4 DATA SUBMISSION:06/09. FUTURE SUBMISSION FOR AVOCADO (9246), LIMA BEAN (9780), CARROT (9522) & CUCUMBER (GH) (10237).

PR #: 09246 **LAB:** 09-FLR04

NER - FRD	NCR - FRD	SOR - FRD		WSR - FRD		CANADA - FRD
		09-FL43	Crane, Dr. Jonathan H.	09-CA48	Farrar, Mr. Chuck	
		09-FL44	Crane, Dr. Jonathan H.	09-CA45	Ennes, D. (Kearney)	
				09-CA46	Farrar, Mr. Chuck	
				09-CA47	Farrar, Mr. Chuck	

OXYFLUORFEN (DOWAGR,MANA)	CARROT	ROOT SUBGROUP (01AB)

Residue Data Requirements: 3 5 6 10-4 11 (DECLINE)

E/CS Data Requirements:

Reasons for Need: BROADLEAF WEEDS

Use Pattern: (PCR): 0.031 K=LB.AI/A; 2 APPLIC AFTER THE 3 LEAF GROWTH STAGE

Comments: MI HAS SUPPORTING DATA: 09/03; MI RE-ACTIVATED WITH NEW FORMULATION GOAL TENDER 4SC & USE PATTERN: 11/06; MFG OK: 06/07; EPA CAUTION: 08/08

PR #: P9049 **LAB:** NONE

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD		CANADA - FRD
			09-WA*P01	Harvey, John	

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
PENDIMETHALIN (BASF,DREXEL)	ONION (GREEN)	ARSENOVIC	BULB VEGETABLE GROUP (03-07B)

Residue Data Requirements: COMPLETE

E/CS Data Requirements: ADDITIONAL CROP SAFETY DATA TO ADD CROP TO LABEL

Reasons for Need: ANNUAL GRASSES, BROADLEAF WEEDS

Use Pattern: (PCR): 0.50-2.0 LB AI/A; APPLY PRE TO EARLY POST (2-3 LEAVES)

Comments: POTENTIAL CROP GROUP TOL; FUTURE SUBMISSION FOR GREEN ONION (5097) ALSO INCLUDE LEEK (4578); TOLERANCE ESTABLISHED; USE IS ON MASTER LABEL BUT NOT ON MARKETING LABEL; NEED CROP SAFETY DATA AT 1X AND 2X:05/08

PR #: P5097 **LAB:** NONE

NER - FRD		NCR - FRD		SOR - FRD		WSR - FRD		CANADA - FRD
09-NYP02	Bellinder, Dr. Robin	09-OHP03	Doohan, D.	09-NCP03	Batts, Roger B.	09-CAP02	Smith, Dr. Richard	

PENDIMETHALIN (BASF,DREXEL)	KIWIFRUIT	HOMA	BERRY & SMALL FRUIT (13-07DE)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: ANNUAL WEEDS, BROADLEAF & GRASSES

Use Pattern: (PCR): 2-4 LB.AI/A; APPLY IN 20-40 GPA AS PREEMERGENCE NOVEMBER TO MARCH; 1-2 APPLIC PER YEAR; 60-80 DAY PHI

Comments: MFG SUPPORTS, BUT NEEDS CROP SAFETY & PERFORMANCE DATA BEFORE REGISTRATION:07/08. GLOBAL DATA ARE AVAILABLE TO SUPPORT A CODEX MRL:10/08. FUTURE SUBMISSION FOR HOPS (1978) & KIWIFRUIT (A6681).

PR #: A6681 **LAB:** 09-WUR03

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD		CANADA - FRD
			09-CA28	Stewart, D.	
			09-CA29	Stewart, D.	
			09-CA30	Skiles, Keri	

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
PENDIMETHALIN (BASF,DREXEL)	HOPS	ARSENOVIC	MISCELLANEOUS COMMODITY (99)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: ANNUAL GRASSES, ANNUAL BROADLEAF WEEDS, LANBSQUARTER

Use Pattern: (PCR): 1 TO 2 LB.AI/A; GROUND BOOM SPRAYER; PREEMERGENCE TO WEEDS

Comments: MFG WILL ANALYZE RESIDUE SAMPLES:10/08. FUTURE SUBMISSION FOR HOPS (1978) & KIWIFRUIT (A6681).

PR #: 10244 **LAB:** 09-BAR01

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD	CANADA - FRD
			09-WA01 Groenendale, D.	
			09-WA02 Groenendale, D.	
			09-OR06 Koskela, Ms. Gina	
			09-ID16 Meeks, Mr. Will	

PROHEXADIONE CALCIUM (BASF)	WATERCRESS	CORLEY	MISCELLANEOUS COMMODITY (99)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: GROWTH REGULATOR DURING WARM & RAINY WEATHER THAT CAUSE STEMS TO BE SPINDLY

Use Pattern: (PCR): 3.85 - 8.0 OZ.AI/A; FOLIAR APPLIC; 1-3 APPLIC; 5-7 RE-TREATMENT INTERVALS; 7-DAY PHI; APPLY TO CROP WHICH IS LEAFED UP; APPLY ONLY DURING THE PERIODS WHEN THE WEATHER CONDITIONS ARE CONDUCIVE TO RADIP GROWTH

Comments:

PR #: 10151 **LAB:** 09-FLR12

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD	CANADA - FRD
09-MD02 Ross, Marylee		09-FL25 Minter, Mr. Tom		
09-MD03 Ross, Marylee		09-FL24 Minter, Mr. Tom		

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
PROMETRYN (MANA,SYNGEN)	DILL	CORLEY	HERB SUBGROUP (19A)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: ANNUAL WEEDS

Use Pattern: (PCR): 1.0 - 2.0 LB.AI/A; PREEMERGENCE 1 APPLIC WHEN DILL IS 6-8 INCHES TALL AND WEEDS UNDER 2 INCHES TALL; INCLUDE CROP OIL CONCENTRATE OR X77; MAXIMUM 2.0 LB AI/A/SEASON; MINIMUM 20 GPA; 30-DAY PHI.

Comments: FOR CA ONLY PR# 2169 (TOL EST). FOR FL ONLY SEE PR# 1630 (24(C)).

PR #: A3040 **LAB:** 08-CAR04

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD	CANADA - FRD
	09-OH*16 Horst, Leona			

PROPICONAZOLE (MANA,SYNGEN)	DILL	CORLEY	HERB SUBGROUP (19A)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: CERCOSPORA, POWDERY MILDEW

Use Pattern: (PCR): FOLIAR; 0.05 TO 0.10 LB.AI/A

Comments: EFF DATA NEEDED FOR CERCOSPORA TO BE LABELED:05/07; PROJECT IS RESEARCHABLE FOR POWDERY MILDEW:10/08.

PR #: 06589 **LAB:** 09-MOR03

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD	CANADA - FRD
		09-NC02 Batts, Roger B.	09-ID03 Meeks, Mr. Will	
		09-FL53 Studstill, David	09-WA*25 Harvey, John	

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
PROPICONAZOLE + FLUDIOXONIL (MANA,SYNGEN)	TOMATO (PH)	CORLEY	FRUITING VEGETABLE GROUP (08)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: SOUR ROT, RHIZOPUS ROT, BLACK SPOT

Use Pattern: (PCR): 500 PPM (TANK CONCENTRATON); POSTHARVEST FRUIT DIP OR LINE SPRAY WITH OR WITHOUT FRUIT COATING; 1 APPLIC; APPLY 8-16 OZ OF MENTOR 45WP IN 100 GAL (200-250,000 LB OF FRUIT)

Comments: MFG WILL LIMIT REGISTRATION TO FRESH MARKET TOMATO ONLY; NO PROCESSING TOMATO TO BE TREATED POST-HARVEST: 08/08; FUTURE SUBMISSION FOR THIS CHEMICAL COMBINATION WILL ALSO INCLUDE PR# 10272 (FLUDIOXONIL)

PR #: 10182 **LAB:** 09-MOR08

NER - FRD	NCR - FRD	SOR - FRD		WSR - FRD		CANADA - FRD
09-NY12 Palmer, Mr. W.H.		09-FL06	Studstill, David	09-CA98	Ennes, D. (Kearney)	
		09-NC19	Batts, Roger B.			
		09-FL68	Studstill, David			
		09-NC32	Batts, Roger B.			

QUINCLORAC (ALBAGH,BASF,MANA)	RHUBARB	BARNEY	LEAF PETIOLES SUBGROUP (04B)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: BINDWEED, HEDGE & FIELD CANADA THISTLE

Use Pattern: (PCR): 0.375 LBA.AI/A; FOLIAR; APPLY POSTEMERGENCE IN THE FALL TO BINDWEED JUST BEFORE THE FIRST FROST, OR APPLY IN SPRING WHEN BINDWEED VINES ARE 6 INCAHES LONG; SUPPRESSES CANADA THISTLE AT 0.375 LBS.AI/A, MAY NEED 2 APPLIC/YEAR TO CONTROL THIS WEED

Comments: BASF WILL NOT SUPPORT:07/08. ALBAUGH WILL SUPPORT:10/08. FUTURE SUBMISSION FOR CRANBERRY (8000) & RHUBARB (10135).

PR #: 10135 **LAB:** 09-CAR06

NER - FRD	NCR - FRD		SOR - FRD	WSR - FRD		CANADA - FRD
	09-MI08	Zandstra, Dr. Bernard H.		09-OR10	Koskela, Ms. Gina	
				09-OR11	Koskela, Ms. Gina	
				09-OR12	Koskela, Ms. Gina	

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
QUIZALOFOP (DUPONT,GOWAN)	SORGHUM (GRAIN)	LEONARD	CEREAL & GRAIN GROUP (15-16)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: SUMMER ANNUAL GRASSES

Use Pattern: (PCR): 0.075 LB.IA/A; MAKE A SINGLE APPLIC WHEN TARGET WEEDS ARE LESS THAN 4 INCHES TALL AND SORGHUM PLANTS ARE UP TO 20 INCHES TALL (UP TO 6 LEAF-COLLARS); USE ONLY ON ACCASE-RESISTANT SORGHUM; INCLUDE A PETROLEUM CROP OIL CONCENTRATE AT 1%, MODIFIED SEED OIL, OR NONIONIC SURFACTANT AT 0.25%; 45-DAY PHI

Comments: GOWAN WILL NOT SUPPORT:06/09. FUTURE SUBMISSION FOR MUSTARD SEED (7340) & GRAIN SORGHUM (10092).

PR #: 10092 **LAB:** 09-CAR19

NER - FRD		NCR - FRD		SOR - FRD		WSR - FRD		CANADA - FRD
09-MD08	Ross, Marylee	09-NE03	Spontanski, Jess J.	09-AR10	Burgos, N.	09-NM04	Craig, Maury (NMSU)	
		09-NE04	Spontanski, Jess J.	09-TX08	Gregg, Ms. Lori	09-NM12	Craig, Maury (NMSU)	
		09-KS02	Nord, Cathy	09-TX09	Gregg, Ms. Lori			
		09-NE02	Spontanski, Jess J.	09-TX10	Gregg, Ms. Lori			
		09-KS03	Nord, Cathy	09-NC15	Batts, Roger B.			

SIMAZINE (DREXEL,SYNGEN)	PEAR	LEONARD	POME GROUP (11)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: WEEDS

Use Pattern: (PCR): 1.6 - 4.0 LB.AI/A; DIRECTED TO GROUND; APPLY AS SINGLE APPLICATION IN LATE FALL OR SPLIT APPLICATION IN FALL AND SPRING

Comments: DCI WILL REQUIRE NEW DATA (6 TRIALS) TO MAINTAIN CURRENT REGISTRATION:09/07. REREGISTRATION PROJECT:05/09. FUTURE SUBMISSION FOR PLUM (1926), PEAR (5466), QUINCE (1924), CRANBERRY (785) & STRAWBERRY (4935).

PR #: 05466 **LAB:** 09-FLR21

NER - FRD		NCR - FRD	SOR - FRD	WSR - FRD		CANADA - FRD
09-NY03	Bellinder, Dr. Robin			09-WA27	Groenendale, D.	
				09-CA23	Skiles, Keri	
				09-CA24	Stewart, D.	
				09-ID01	Meeks, Mr. Will	
				09-WA*26	Harvey, John	

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
SIMAZINE (DREXEL,SYNGEN)	CHERRY	LEONARD	STONE FRUIT GROUP (12)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: WEEDS

Use Pattern: (PCR): 0.5 - 1.0 LB.AI/A; APPLY TO ORCHARD FLOOR IN LATE FALL TO EARLY SPRING PRIOR TO EMERGENCE, AT LEAST 6-9 MONTHS BEFORE HARVEST

Comments: DCI WILL REQUIRE NEW DATA (4 TRIALS):09/07.

PR #: 01928 **LAB:** 08-FLR05

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD	CANADA - FRD
09-NY02 Palmer, Mr. W.H.	09-MI27 Zandstra, Dr. Bernard H.			

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
SIMAZINE (DREXEL,SYNGEN)	PLUM	LEONARD	STONE FRUIT GROUP (12)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: WEEDS

Use Pattern: (PCR): 0.5 - 1.0 LB.AI/A; APPLY TO ORCHARD FLOOR IN LATE FALL TO EARLY SPRING

Comments: DCI WILL REQUIRE NEW DATA (4 TRIALS):09/07. COVERED NO DATA NEEDED, HOWEVER FOR NATIONAL USE THEN 4 MORE TRIALS ARE NEEDED:09/08. FUTURE SUBMISSION FOR PLUM (1926), PEAR (5466), QUINCE (1924), CRANBERRY (785) & STRAWBERRY (4935).

PR #: 01926 **LAB:** 09-FLR20

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD	CANADA - FRD
			09-CA18 Skiles, Keri	
			09-CA19 Stewart, D.	
			09-ID18 Meeks, Mr. Will	
			09-OR28 Koskela, Ms. Gina	

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
S-METOLACHLOR/METOLACHLOR (DREXEL,SYNGEN)	LETTUCE (HEAD)	ARSENOVIC	LEAFY GREENS SUBGROUP (04A)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: WEEDS

Use Pattern: (PCR): 0.5-1.0 LB AI/A; SOIL APPLIC; 1 APPLIC; 50-DAY PHI; APPLY POST PLANT PREEMERGENCE TO LETTUCE

Comments: MFG WILL SUPPORT APPLICATIONS TO TRANSPLANTED HEAD LETTUCE: 08/08; FUTURE SUBMISSION FOR LETTUCE (HEAD) (10218), LETTUCE (LEAF) (8982), SQUASH (SUMMER) (6656), STRAWBERRY (1676) INCLUDE CALABAZA (3659)

PR #: 10218 **LAB:** 09-BER04

NER - FRD		NCR - FRD	SOR - FRD		WSR - FRD		CANADA - FRD
09-NY15	Bellinder, Dr. Robin		09-FL03	Studstill, David	09-CA*104	Benzen, Ms. Sharon D.	
09-NY16	Jordan, Mr. Grant				09-CA*105	Benzen, Ms. Sharon D.	
					09-CA103	Skiles, Keri	
					09-CA106	Boutwell, Brent	

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
S-METOLACHLOR/METOLACHLOR (DREXEL,SYNGEN)	LETTUCE (LEAF)	LEONARD	LEAFY GREENS SUBGROUP (04A)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: NUTSEDGE, ANNUAL GRASSES, BROADLEAF WEEDS

Use Pattern: (PCR): 0.65-0.94 LB AI/A; PRETRANSPLANT, POST-TRANSPLANT (SHORTLY AFTER TRANSPLANTING) OR POST EMERGENCE AFTER CULTIVATION

Comments: MFG WILL REQUIRE INDEMNIFICATION: 08/04; FUTURE SUBMISSION FOR LETTUCE (HEAD) (10218), LETTUCE (LEAF) (8982), SQUASH (SUMMER) (6656), STRAWBERRY (1676) INCLUDE CALABAZA (3659)

PR #: 08982 **LAB:** 08-YAR04

NER - FRD		NCR - FRD	SOR - FRD	WSR - FRD		CANADA - FRD
09-NY08	Bellinder, Dr. Robin			09-NM03	Craig, Maury (NMSU)	

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
S-METOLACHLOR/METOLACHLOR (DREXEL,SYNGEN)	STRAWBERRY	LEONARD	BERRY & SMALL FRUIT (13-07G)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: WEEDS, YELLOW NUTSEDGE, GRASSES

Use Pattern: (PCR): POST; 1-2 LB AI/A/APPLIC IN 10-40 GPA; USE TWICE PER YEAR, TOTAL 2-4 LB AI/A; POTENTIAL APPLIC TIMINGS: RIGHT AFTER TRANSPLANTING A NEW CROP; IN THE SPRING IN ESTABLISHED CROPS; POST-RENOVATION; AND AFTER DORMANCY; 75-90 DAY PHI

Comments: PERENNIAL & ANNUAL STRAWBERRIES: 09/08; FUTURE SUBMISSION FOR LETTUCE (HEAD) (10218), LETTUCE (LEAF) (8982), SQUASH (SUMMER) (6656), STRAWBERRY (1676) INCLUDE CALABAZA (3659)

PR #: 01676 **LAB:** 08-YAR05

NER - FRD	NCR - FRD	SOR - FRD		WSR - FRD		CANADA - FRD
		09-FL56	Studstill, David	09-CA*15	Benzen, Ms. Sharon D.	
				09-CA16	Ennes, D. (Kearney)	
				09-CA17	Farrar, Mr. Chuck	

SPINETORAM (DOWAGR)	ORANGE	DORSCHNER	CITRUS FRUIT GROUP (10)

Residue Data Requirements:

E/CS Data Requirements:

Reasons for Need: CITRUS PSYLLID

Use Pattern: (PCR): ULV APPLICATION; FOGGING WITH 3-5 GPA

Comments: RESIDUE DATA REQUIRED FOR ULV APPLICATION <5 GPA; REGIONAL STUDY FOR FL ONLY: 12/08. 24(C) HAS BEEN ISSUED IN FL:07/09. MFG TO SUB IR-4 DATA:09/09.

PR #: 10145 **LAB:** 09-FLR02

NER - FRD	NCR - FRD	SOR - FRD		WSR - FRD	CANADA - FRD
		09-FL61	Johnson, Mr. Robert R.		
		09-FL62	Johnson, Mr. Robert R.		
		09-FL63	Johnson, Mr. Robert R.		

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
SPIRODICLOFEN (BAYER)	BANANA	DORSCHNER	MISCELLANEOUS COMMODITY (99)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: MITES

Use Pattern: (PCR): 16 OZ PRODUCT/A; FOLIAR; 7-DAY RE-TREATMENT INTERVAL; 7-DAY PHI; ALTERNATE WITH OTHER ACARICIDES

Comments:

PR #: 10039 **LAB:** 09-YAR01

NER - FRD	NCR - FRD	SOR - FRD		WSR - FRD		CANADA - FRD	
		09-FL37	Crane, Dr. Jonathan H.	09-HI06	Coughlin, Julie		
		09-FL38	Crane, Dr. Jonathan H.	09-HI07	Coughlin, Julie		
				09-HI08	Coughlin, Julie		

SPIROTETRAMAT (BAYER)	BLUEBERRY	LONSBARY	BERRY & SMALL FRUIT (13-07B)

Residue Data Requirements:

E/CS Data Requirements:

Reasons for Need: APHIDS, SCALE INSECTS

Use Pattern: (PCR): 0.1 LB.AI/A (6-8 FL.OZ); FOLIAR OR SOIL APPLIC; 2 APPLIC; 30 DAY RE-TREATMENT INTERVAL; 7-DAY PHI; SOIL APPLIC MUST BE FOLLOWED WITH IRRIGATION OR RAIN; 15 GPA MIN OF GROUND APPLIC

Comments: 2009 CANADIAN STUDY AAFC09-030R. CANADA SERVING AS STUDY DIRECTOR & SPONSOR:03/09.

PR #: 10194 **LAB:** 09-CAR142

NER - FRD		NCR - FRD		SOR - FRD		WSR - FRD		CANADA - FRD	
09-ME132	Collins, J.	09-MI136	Wise, Dr. John C.	09-NC140	Batts, Roger B.	09-OR139	DeFrancesco, Mr. Joe	09-NS134	Peill, Heather
09-NJ133	Freiberger, Tom	09-MI137	Wise, Dr. John C.	09-NC141	Batts, Roger B.			09-NS135	Peill, Heather
								09-NB131	Leblanc, S.
								09-ON138	Pogoda, Mitch

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
SPIROTETRAMAT (BAYER)	CRANBERRY	LONSBARY	BERRY & SMALL FRUIT (13-07GH)

Residue Data Requirements:

E/CS Data Requirements:

Reasons for Need: CRANBERRY TIPWORM

Use Pattern: (PCR): 0.13-0.26 AI/A; FOLIAR; 3 APPLIC; 10-14 RE-TREATMEANT INTERVAL; 30-DAY PHI; APPLY AT EGG LAYING, CAN BE APPLIED WITH NIS SURFACTANT; AVOID APPLIC WHILE BEES ARE ACTIVELY FORAGING

Comments: 2009 CANADIAN STUDY AAFC09-050R. CANADA SERVING AS STUDY DIRECTOR & SPONSOR:03/09.

PR #: 10198 **LAB:** 09-CAR149

NER - FRD		NCR - FRD		SOR - FRD	WSR - FRD		CANADA - FRD	
09-MA144	Sylvia, M.	09-WI145	Chapman, S.		09-OR148	DeFrancesco, Mr. Joe	09-BC147	Brookes, Ms. Victoria
09-NJ143	Freiberger, Tom	09-WI146	Chapman, S.					

SPIROTETRAMAT (BAYER)	ARTICHOKE	LONSBARY	MISCELLANEOUS COMMODITY (99)

Residue Data Requirements:

E/CS Data Requirements:

Reasons for Need: ARTICHOKE APHID, GREEN PEACH APHID, BLACK BEAN APHID

Use Pattern: (PCR): 8 FL.OZ OF PRODUCT/A; FOLIAR APPLIC; 4 APPLIC/YEAR; 2-WEEK RE-TREATMENT INTERVAL; 3-DAYS PHI; GROUND APPLIC: IN 50-100 GPA; AIR APPLIC: IN 10-20 GPA

Comments: MFG REQUIRES EFFICACY DATA. CANADA COLLECTING EFFICACY DATA:09/08. 2009 CANADIAN STUDY AAFC09-028R. CANADA SERVING AS STUDY DIRECTOR & SPONSOR:03/09.

PR #: 10243 **LAB:** 09-CAR127

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD		CANADA - FRD	
			09-CA128	Bari, Dr. Mohammad H.	09-BC126	Brookes, Ms. Victoria
			09-CA129	Bari, Dr. Mohammad H.	09-QC125	Trudeau, M.
			09-CA130	Bari, Dr. Mohammad H.		

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
SPIROTETRAMAT (BAYER)	BANANA	DORSCHNER	MISCELLANEOUS COMMODITY (99)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: BANANA APHID (PENTALONIA NIGRONERVOSA)

Use Pattern: (PCR): 0.25 LB.AI/A; UP TO 5 FOLIAR APPLIC/SEASON; 14 DAY RE-TREATMENT INVERVAL; 14 DAY PHI; APPLY AT FIRST SIGN OF APHIDS, APPLY IN SUFFICIENT SPRAY VOLUME, BUT WITHOUT RUNOFF; USE W/SURFACTANT AT 0.25% V/V; UP TO 2 OR 3 SEQUENTIAL APPLIC, THEN ROTATE TO ALTERNATIVE MODE OF ACTION INSECTICIDE

Comments: HI HAS EFFICACY TRIALS ON-GOING:08/07.

PR #: 10042 **LAB:** 08-CAR08

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD		CANADA - FRD
			09-HI14	Coughlin, Julie	

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
SPIROTETRAMAT (BAYER)	COFFEE	DORSCHNER	MISCELLANEOUS COMMODITY (99)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: GREEN SCALE (COCCUS VIRIDIS)

Use Pattern: (PCR): 0.25 LB.AI/A; FOLIAR APPLIC; UP TO 3 APPLIC/SEASON; 21 DAYS RE-TREATMENT INVERVAL; 14 DAYS PHI; APPLY AT FIRST SIGN OF SCALES, APPLY IN SUFFICIENT SPRAY VOLUME, BUT WITHOUT RUNOFF; USE W/SURFACTANT AT 0.25% V/V; UP TO 2 OR 3 SEQUENTIAL APPLIC, THEN ROTATE TO ALTERNATIVE MODE OF ACTION INSECTICIDE

Comments: HI HAS EFFICACY TRIALS ON-GOING:08/07.

PR #: 10041 **LAB:** 09-CAR14

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD		CANADA - FRD
			09-HI09	Kam, James	
			09-HI10	Kam, James	
			09-HI11	Kam, James	
			09-HI13	Kam, James	
			09-HI12	Kam, James	

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
SPIROTETRAMAT (BAYER)	POMEGRANATE	DORSCHNER	MISCELLANEOUS COMMODITY (99)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: APHIDS, WHITEFLIES, GRAPE MEALYBUGS

Use Pattern: (PCR): MAX SINGLE APPLIC 10 OZ/A; MAX PER SEASON 20 OZ/A; 30 DAY SPRAY INTERVAL; 30-DAY PHI

Comments:

PR #: 10113 **LAB:** 09-CAR09

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD		CANADA - FRD
			09-CA69	Ennes, D. (Kearney)	
			09-CA70	Ennes, D. (Kearney)	
			09-CA71	Stewart, D.	
			09-CA72	Stewart, D.	

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
STREPTOMYCIN (AGROSO,MANA,NUFARM)	TOMATO (FIELD & GH)	THOMPSON	FRUITING VEGETABLE GROUP (08)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: BACTERIAL DISEASES

Use Pattern: (PCR): 1-1.5 LB.PRODUCT/A; MAKE 2 FOLIAR APPLIC 7-14 DAYS APART, BEGINNING AT FIRST SIGN OF BACTERIAL DISEASE; 7-DAY PHI

Comments: AGRO SOURCE APPROVAL:02/08. FUTURE SUBMISSION FOR GRAPEFRUIT (10043) & TOMATO (FIELD & GH) (1602).

PR #: 01602 **LAB:** 09-FLR23

NER - FRD		NCR - FRD		SOR - FRD		WSR - FRD		CANADA - FRD
09-NY01	Jordan, Mr. Grant	09-WI01	Heider, Daniel J.	09-NC01	Batts, Roger B.	09-CA11	Stewart, D.	
09-MD19	Ross, Marylee			09-FL57	Studstill, David	09-CA10	Farrar, Mr. Chuck	
				09-FL58	Studstill, David	09-CA06	Skiles, Keri	
						09-CA08	Farrar, Mr. Chuck	
						09-CA09	Stewart, D.	
						09-CA12	Boutwell, Brent	
						09-CA13	Boutwell, Brent	
						09-CA07	Ennes, D. (Kearney)	
						09-CO01	Loiz, Meghan	
						09-NM09	Craig, Maury (NMSU)	
						09-NM10	Craig, Maury (NMSU)	
						09-AZ*06	Miller, Barry	
						09-CA14	Skiles, Keri	

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
SULFENTRAZONE (FMC)	APPLE	LEONARD	POME GROUP (11)

Residue Data Requirements: COMPLETE

E/CS Data Requirements: COMPLETE 2-YR CROP SAFETY STUDY

Reasons for Need: NUTSEDGE, BROADLEAF WEEDS

Use Pattern: (PCR): ORCHARD FLOOR; 0.250 AND 0.375 LB AI/A

Comments: MFG REQUIRES MULTIPLE YEAR CROP SAFETY DATA ON TREATED PLOTS PRIOR TO REGISTRATION:10/08; MFG TO CONSIDER SUBMITTING IR-4 DATA:06/09

PR #: 07770 **LAB:** 09-FLR09

NER - FRD		NCR - FRD		SOR - FRD		WSR - FRD		CANADA - FRD
09-NY06	Bellinder, Dr. Robin	09-MI18	Zandstra, Dr. Bernard H.	09-NC06	Batts, Roger B.	09-WA*20	Harvey, John	
09-NY07	Humphreys, Harry	09-MI19	Zandstra, Dr. Bernard H.			09-ID05	Meeks, Mr. Will	
09-NJ03	Freiberger, Tom					09-WA21	Groenendale, D.	
						09-CO04	Loiz, Meghan	
						09-CA36	Skiles, Keri	
						09-WA*19	Harvey, John	

PR #: P7770 **LAB:** NONE

NER - FRD		NCR - FRD		SOR - FRD		WSR - FRD	CANADA - FRD
09-WVP01	Chandra, Rakesh	09-MIP01	Zandstra, Dr. Bernard H.	09-NCP01	Mitchem, Wayne		

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
SWITCH, PROVADO, SUCCESS (BAYER,DOWAGR,SYNGEN)	BRASSICA CROP GROUP 05	BARNEY	BRASSICA LEAFY GROUP (05)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: CROP GROUP VALIDATION

Use Pattern: (PCR):

Comments: TEST CROPS: BROCCOLI, CABBAGE, CHINESE BROCCOLI, CHINESE CABBAGE (NAPA), KOHLRABI, MUSTARD GREENS, KALE & CHINESE CABBAGE (BOK CHOY)

PR #: 10260 **LAB:** 08-EPA

NER - FRD	NCR - FRD	SOR - FRD		WSR - FRD		CANADA - FRD
		09-FL01	Studstill, David	09-CA04	Farrar, Mr. Chuck	

TEBUCONAZOLE (BAYER,MANA,UPI)	TURNIP GREENS	CORLEY	ROOT SUBGROUP (01AB)

Residue Data Requirements: 10 (NEED ROOTS)

E/CS Data Requirements:

Reasons for Need: CERCOSPORA LEAF SPOT

Use Pattern: (PCR):

Comments: PER EPA CONDITIONAL REGISTRATION, NEED CA TRIALS FOR ROOTS DATA ONLY:06/08. COMPLETE CA 2009 TRIAL AN DSUB TO REMOVE CA ROOT RESTRICTION:05/09.

PR #: A6234 **LAB:** 09-MOR04

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD		CANADA - FRD
			09-CA*26	Benzen, Ms. Sharon D.	
			09-CA25	Boutwell, Brent	

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
TEBUCONAZOLE (BAYER,MANA,UPI)	GREENS (MUSTARD)	CORLEY	LEAFY BRASSICA GREENS SUBGROUP (05B)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: CERCOSPORA LEAF SPOT, POWDERY MILDEW

Use Pattern: (PCR): FOLIAR SPRAY; 0.1125 LB.AI/A; 4 APPLIC; 14 DAY INTERVALS; 7 DAY PHI

Comments: STUDY 06233 ARCHIVED R5A,R6,S2. SUBMISSION FOR MUSTARD GREENS (6233) ALSO INCLUDE COLLARD (6232) & KALE (6510). EPA REQUIRES ADDITIONAL TRIAL IN REGION 3:07/08. FUTURE SUBMISSION FOR BARLEY (A6513), MUSTARD GREENS (B6233), TOMATO (GH) (10134) & WATERCRESS (A6481).

PR #: B6233 **LAB:** 09-TIR03

NER - FRD	NCR - FRD	SOR - FRD		WSR - FRD	CANADA - FRD
		09-FL54	Studstill, David		
		09-GA*01	Fraelich, Ben		

TEBUCONAZOLE (BAYER,MANA,UPI)	TOMATO (GH)	CORLEY	FRUITING VEGETABLE GROUP (08)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: POWDERY MILDEW

Use Pattern: (PCR): APPLY AS A FOLIAR SPRAY; 0-3 DAY PHI

Comments: (GREENHOUSE) MFG SUBMITTING A PETITION FOR FIELD GROWN FRUITING VEGETABLES BEFORE THE END OF 2008. FUTURE SUBMISSION FOR BARLEY (A6513), MUSTARD GREENS (B6233), TOMATO (GH) (10134) & WATERCRESS (A6481).

PR #: 10134 **LAB:** 09-MOR06

NER - FRD		NCR - FRD	SOR - FRD		WSR - FRD		CANADA - FRD
09-MD07	Ross, Marylee		09-FL26	Studstill, David	09-CO10	Loiz, Meghan	
			09-TX06	Gregg, Ms. Lori			

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
TEBUCONAZOLE (BAYER,MANA,UPI)	CANTALOUPE	CORLEY	MELON SUBGROUP (09A)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: SOUTHERN BLIGHT, POWDERY MILDEW

Use Pattern: (PCR):

Comments: SUBMISSION FOR CANTALOUPE (5091), SUMMER SQUASH (5279) & CUCUMBER (5277) COVERS WINTER SQUASH (6322), WATERMELON (6321), PUMPKIN (5278) & CALABAZA (5400). PER EPA CONDITIONAL REGISTRATION, NEED 2 CA TRIALS:06/08.

PR #: A5091 **LAB:** 09-TIR05

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD		CANADA - FRD
			09-CA21	Boutwell, Brent	
			09-CA22	Skiles, Keri	
			09-AZ*05	Miller, Barry	
			09-AZ*07	Miller, Barry	

TEBUCONAZOLE (BAYER,MANA,UPI)	BARLEY	CORLEY	CEREAL & GRAIN GROUP (15-16)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: BARLEY STRIPE RUST

Use Pattern: (PCR): FOLIAR; 1.8 OZ.AI/A; 1 APPLIC AT 50% HEADING

Comments: TIME LIMITED TOLERANCE, EXPIRES 06/30/08, RULE:06/05. REGISTERED FOR BARLEY AND WHEAT MAY 2008; CONDITIONAL ON ADDITIONAL RESIDUE TRIALS IN REGIONS 10 AND 11, PLUS STORAGE STABILITY DATA IN STRAW:07/08. FUTURE SUBMISSION FOR BARLEY (A6513), MUSTARD GREENS (B6233), TOMATO (GH) (10134) & WATERCRESS (A6481).

PR #: A6513 **LAB:** 09-MOR09

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD		CANADA - FRD
			09-CA27	Boutwell, Brent	
			09-WA24	Groenendale, D.	
			09-ID02	Meeks, Mr. Will	

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
TEBUCONAZOLE (BAYER,MANA,UPI)	WATERCRESS	CORLEY	MISCELLANEOUS COMMODITY (99)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: CERCOSPORA LEAF SPOT

Use Pattern: (PCR): RATE TO BE ESTABLISHED; APPLY BY AIRBLAST OR CHEMIGATION; START APPLIC AFTER CROP IS ESTABLISHED, 4-6 APPLIC PER CROP, 5-7 DAY INTERVALS

Comments: MFG OK:07/08. FUTURE SUBMISSION FOR BARLEY (A6513), MUSTARD GREENS (B6233), TOMATO (GH) (10134) & WATERCRESS (A6481).

PR #: A6481 **LAB:** 09-TIR04

NER - FRD		NCR - FRD		SOR - FRD		WSR - FRD	CANADA - FRD
09-MD16	Ross, Marylee			09-FL51	Minter, Mr. Tom		
09-MD17	Ross, Marylee			09-FL52	Minter, Mr. Tom		

THIAMETHOXAM (SYNGEN)	SPINACH	DORSCHNER	LEAFY GREENS SUBGROUP (04A)

Residue Data Requirements: COMPLETE

E/CS Data Requirements: COMPLETE

Reasons for Need: WIREWORM, WHITE GRUB, SOIL INSECTS, GARDEN SYMPHYLAN

Use Pattern: (PCR): SOIL APPLIC

Comments: MFG HAS SUB RESIDUE DATA:05/00. NEED PERF DATA ON SOIL PEST WITH PLATINUM. WSR FUNDING 2004 PERF:05/04. PROP:06/04. MFG LABEL PENDING:05/06. ACTARA (FOLIAR APPLIC) AND PLATINUM (SOIL APPLIC) LABELED TO CONTROL APHIDS, FLEABEETLE, LEAFHOPPER, WHITEFLIES, LEAFMINER (PLATINUM ONLY); ACTARA 7-DAY PHI; PLATINUM 30-DAY PHI:02/08. MFG REQUIRES PERF DATA ON SOIL PESTS WITH PLATINUM BEFORE ADDING PEST TO THE LABEL:03/08. EPA CAUTION:08/08.

PR #: P7429 **LAB:** NONE

NER - FRD		NCR - FRD		SOR - FRD		WSR - FRD	CANADA - FRD
09-MDP01	Ross, Marylee	09-OH*P01	Horst, Leona	09-FLP04	Nuessly, G.S.		
				09-ALP01	Foshee, W.G.		

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
THIAMETHOXAM (SYNGEN)	CANEBERRY	SWITEK	BERRY & SMALL FRUIT (13-07A)

Residue Data Requirements: COMPLETE

E/CS Data Requirements:

Reasons for Need: APHID, LEAFHOPPER, ADULT ROOT WEEVIL

Use Pattern: (PCR): 0.188 LB.AI/A (12 FL.OZ PRODUCT/A); DIRECTED TO THE SOIL IN THE PLANT ROW; 1 APPLIC; 60-DAY PHI; APPLY PRIOR TO A RAIN EVENT OR IRRIGATE AFTER APPLIC

Comments: SEE PR# 08039 FOR FOLIAR APPLICATION

PR #: 10246 **LAB:** 09-MIR12

NER - FRD		NCR - FRD		SOR - FRD		WSR - FRD		CANADA - FRD
09-NY19	Palmer, Mr. W.H.	09-MI02	Zandstra, Dr. Bernard H.	09-NC23	Batts, Roger B.	09-OR04	DeFrancesco, Mr. Joe	
						09-OR29	DeFrancesco, Mr. Joe	
						09-CA101	Ennes, D. (Kearney)	
						09-OR05	DeFrancesco, Mr. Joe	

TRIFLUMIZOLE (CHMTRA)	CUCUMBER (GH)	HOMA	SQUASH/CUCUMBER SUBGROUP (09B)

Residue Data Requirements: COMPLETE

E/CS Data Requirements: REPEAT AZ TRIAL (NO POWDERY MILDEW IN 2009)

Reasons for Need: POWDERY MILDEW

Use Pattern: (PCR): FOLIAR SPRAY; 0-DAY PHI

Comments: FIELD LABELED; MFG REQUIRES ADDITIONAL EFFICACY:01/05

PR #: 09300 **LAB:** 09-CAR07

NER - FRD		NCR - FRD	SOR - FRD		WSR - FRD		CANADA - FRD
09-MD13	Ross, Marylee		09-TX18	Gregg, Ms. Lori	09-CO08	Loiz, Meghan	
			09-FL42	Studstill, David			

PR #: P9300 **LAB:** NONE

NER - FRD	NCR - FRD	SOR - FRD	WSR - FRD		CANADA - FRD
			09-AZP01	Matheron, Dr. Michael E.	

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
V-10135 (VALENT)	CANEBERRY	CARPENTER	BERRY & SMALL FRUIT (13-07A)

Residue Data Requirements: COMPLETE
E/CS Data Requirements:
Reasons for Need: BOTRYTIS
Use Pattern: (PCR): 0.25 LB; FOLAIR SPRAY; 1 DAY PHI
Comments: EPA CAUTION:08/08.

PR #: 09444 **LAB:** 09-MIR15

NER - FRD	NCR - FRD		SOR - FRD		WSR - FRD		CANADA - FRD
	09-MI16	Zandstra, Dr. Bernard H.	09-NC09	Batts, Roger B.	09-CA53	Ennes, D. (Kearney)	
	09-MI28	Zandstra, Dr. Bernard H.			09-OR24	Koskela, Ms. Gina	
					09-OR25	Koskela, Ms. Gina	
					09-OR26	Koskela, Ms. Gina	

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
V-10135 (VALENT)	BLUEBERRY	CARPENTER	BERRY & SMALL FRUIT (13-07B)

Residue Data Requirements: COMPLETE
E/CS Data Requirements:
Reasons for Need: MONILINIA, BOTRYTIS
Use Pattern: (PCR): NO USE PATTERN DEFINED
Comments: EPA CAUTION:08/08.

PR #: 09445 **LAB:** 09-MIR14

NER - FRD		NCR - FRD		SOR - FRD		WSR - FRD		CANADA - FRD
09-ME01	Yarborough, Dr. Dave	09-MI13	Wise, Dr. John C.	09-NC11	Batts, Roger B.	09-OR20	Koskela, Ms. Gina	
09-NJ06	Freiberger, Tom	09-MI14	Zandstra, Dr. Bernard H.					
09-NJ07	Freiberger, Tom	09-MI15	Zandstra, Dr. Bernard H.					
09-NJ11	Freiberger, Tom							

CHEMICAL (MFG)	COMMODITY (CROP GROUP)	STUDY DIRECTOR	CROP GROUP
ZETA-CYPERMETHRIN (FMC)	ORANGE	DORSCHNER	CITRUS FRUIT GROUP (10)

Residue Data Requirements:

E/CS Data Requirements:

Reasons for Need: CITRUS PSYLLID

Use Pattern: (PCR): SEE LABEL; FOGGING WITH 2-5 GALLONS PER ACRE

Comments: RESIDUE DATA REQUIRED FOR ULV APPLICATION <5 GPA; REGIONAL STUDY FOR FL ONLY:11/08. MFG TO SUBMIT IR-4 DATA:09/09.

PR #: 10101 **LAB:** 09-FLR01

NER - FRD	NCR - FRD	SOR - FRD		WSR - FRD	CANADA - FRD
		09-FL59	Johnson, Mr. Robert R.		
		09-FL60	Johnson, Mr. Robert R.		
		09-FL61	Johnson, Mr. Robert R.		

ATTACHMENT 3 – Registration Packages Submitted in 2009

Completed Petitions or Final Reports Submitted to EPA or to MFG for submissions to EPA

Pest Control Agent / Type*		Commodity or Crop Group	PR#	Date
Thifensulfuron-methyl	H	Safflower	A3454	Jan 09 2009
Clothianidin	I	Peach	08544 A8544	Jan 14 2009
		Cranberry	09399	
Acetamiprid	I	Fruit, small, vine climbing, except fuzzy kiwifruit, subgroup 13-07F	09057	Mar 12 2009
		Clover (grown for seed)	09600	
		Tomato (greenhouse)	08354	
Carfentrazone	H	Onion, dry bulb (label change)	09034	Mar 16 2009
Novaluron	I	Vegetable, fruiting, group 8 Okra Cocona African eggplant Pea eggplant Scarlet eggplant Goji berry Garden huckleberry Martynia Naranjilla Roselle Sunberry Bush tomato Currant tomato Tree tomato	08985 08634	Mar 17 2009
		Vegetable, cucurbit, group 9	08988 08989 08990	
		Berry, low growing, subgroup 13-07G	09782 10050	
		Bean, snap	08128	
		Bean, dry	09781	
		Swiss chard	09745	
Diazinon	I	Mushroom	10262	Mar 20 2009
Clavibacter michiganensis subspecies *michiganensis*	F	Tomato	0430B	Mar 27 2009
Bifenazate	I	Bean, succulent and dried (storage stability study)	08929	Apr 02 2009
Quinoxyfen	F	Hop (EU MRL)	10084	Apr 24 2009
Fluazinam	F	Carrot	07094	May 15 2009
S-Metolachlor	H	Calendula	10280	May 21 2009
Diquat	H	Calendula	10281	May 21 2009
*F=fungicide, H=herbicide, I=insecticide/acaricide, M=molluscide, P=plant growth regulator, R=rodenticide				

ATTACHMENT 3 Continued

Completed Petitions or Final Reports Submitted to EPA or to MFG for submission to EPA

Pest Control Agent / Type*		Commodity or Crop Group	PR#	Date
Halosulfuron-methyl	H	Vegetable, tuberous and corm, subgroup 1C	07281 08937	Jun 3 2009
		Pea and bean, succulent shelled, subgroup 6B	02686	
		Pea and bean, dried shelled, except soybean, subgroup 6C	08976	
		Bushberry subgroup 13-07B	09243	
		Rhubarb	09407	
		Apple	07769	
		Okra	08838	
Acetamiprid	I	Tea	10316	Jun 10 2009
Mefenoxam	F	Caneberry subgroup 13-07A	01169	Jul 10 2009
		Bushberry subgroup 13-07B		
		Bean, snap, succulent	08430 08371	
		Spinach	08431	
		Onion, bulb, subgroup 3-07A		
		Onion, green, subgroup 3-07B		
Tobacco MGMV*	H	All commodities	0364B	Jul 23 2009
Fenpropathrin	I	Sugar apple Lychee Guava Jaboticaba Wax jambu Starfruit Passionfruit Acerola Feijoa Longan Spanish lime Pulasan Rambutan Atemoya Biriba Cherimoya Custard apple Ilama Soursop	07864 07865 07866 07867 07868 07871 07872	Jul 23 2009
		Tea	10318	
Acequinocyl	I	Vegetable, fruiting, group 8 Okra	08356 08605 08858 09275	Jul 30 2009
		Bean, edible podded	08673	
		Hops	09370	
Glufosinate-ammonium	H	corn, sweet	06953 A6515	Aug 06 2009

*F=fungicide, H=herbicide, I=insecticide/acaricide, MGMV=Mild Green Mosaic Virus

ATTACHMENT 3 Continued

Completed Petitions or Final Reports Submitted to EPA or to MFG for submission to EPA

Pest Control Agent / Type*		Commodity or Crop Group	PR#	Date
S-metolachlor	H	Sesame	06516	Aug 11 2009
		Melon subgroup 9A	A6178	
		Bushberry subgroup 13-07B Blueberry, lowbush	B2616	
		Caneberry subgroup 13-07A	A3497	
		Sorghum, sweet	03840	
		Brassica, leafy greens, subgroup 5B Turnip greens	02255	
		Carrot	08981	
		Cucumber	06657	
		Okra	---	
		Onion, bulb, subgroup 3-07A	---	
		Onion, green, subgroup 3-07B	---	
Flutolanil	H	Vegetable, brassica, leafy, group 5 Turnip greens	08760 08840 09263 08841 10227	Aug 20 2009
		Ginseng	09392	
Chlorothalonil	F	Berry, low growing, subgroup 13-07G	00577	Aug 24 2009
		Onion, green, subgroup 3-07B (subgroup tolerance requested, based on commodity tolerance)		
		Caneberry subgroup 13-07A (subgroup tolerance requested, based on commodity tolerance)	---	
		Bushberry subgroup 13-07B (subgroup tolerance requested, based on commodity tolerance)	---	
Cyazofamid	F	Brassica, head and stem, subgroup 5A	09082 09717	Aug 31 2009
		Brassica, leafy greens, subgroup 5B Turnip greens	09083 09084	
		Spinach	09265	
		Hops	09823	
Linuron	H	Pea (dry)	09651 10098	Sep 21 2009
		Parsley	03035	
Linuron (re-activated)	H	Horseradish	03609	Sep 21 2009
		Celeriac	03557	
		Rhubarb	---	
Spinetoram	I	Fruit, citrus, group 10 (label change)	10145	Sep 22 2009
Glyphosate	H	Strawberry (label change)	01409	Sep 28 2009
Glufosinate	H	Peach, MFG submitted IR-4 data	08720	Oct 27 2009
Fomesafen	H	Pepper, MFG submitted IR-4 data	09677	Oct 27 2009
Flumioxazin	H	Peach, MFG submitted IR-4 data	09346	Oct 27 2009

*F=fungicide, H=herbicide, I=insecticide/acaricide, M=molluscide, P=plant growth regulator, R=rodenticide

ATTACHMENT 3 Continued

Completed Petitions or Final Reports Submitted to EPA or to MFG for submission to EPA

Pest Control Agent / Type*		Commodity or Crop Group	PR#	Date
Bifenazate	I	Sugar apple Cherimoya Atemoya Custard apple Ilama Soursop Biriba	08927	Nov 11 2009
		Avocado	08269	
		Fruit, small, vine climbing, except fuzzy kiwifruit, subgroup 13-07F	---	
		Berry, low growing, subgroup 30-07G	10085	
Bifenthrin	I	Grass (tolerance for regional registration in Idaho, Oregon, and Washington)	09476	Nov 23 2009
		Tea	10317	
S-Metolachlor	H	Tomato (label change, shorter PHI)	09668	Nov 23 2009 MFG submitted IR-4 data.
Aspergillus flavus AF36	F	Corn	0378B	Dec 01 2009
Propiconazole	F	Mint	09419	Dec 08 2009
		Onion, bulb, subgroup 3-07A	---	
		Onion, green, subgroup 3-07B	---	
		Caneberry subgroup 13-07A	---	
		Bushberry subgroup 13-07B	---	
		Berry, low growing, subgroup 13-07G	---	
Etoxazole	I	Summer squash Pepper, bell and non-bell Caneberry Avocado Papaya Mango Black sapote Canistel Mamey sapote Sapodilla Star apple Subgroup 13-07G Subgroup 13-07F	09205 09234 08096 09738 09292 09216 10341 10342	Dec 23 2009
Triflusulfuron-methyl	H	garden beet	08043	Dec 24 2009
Pronamide	H	Lettuce (leaf) – label change/tolerance MFG will submit	08709	Dec 03 2009
Oxyfluorfen	H	Cabbage – label change	A5255	Dec 08 2009
		Broccoli – MFG will submit IR-4 data	08806	Dec 08 2009
Kasugamycin	F	Pepper – MFG will submit IR-4 data	09802	Dec 08 2009
		Pear – MFG will submit IR-4 data	09619	Dec 08 2009
		Walnut – MFG will submit IR-4 data	09772	Dec 15 2009

*F=fungicide, H=herbicide, I=insecticide/acaricide, M=molluscide, P=plant growth regulator, R=rodenticide

ATTACHMENT 3 Continued

Reports Submitted to Codex or other International agencies.

Pest Control Agent - Agency / Type*		Commodity	Date	
Indoxacarb - Codex	I	Vegetable, cucurbit, group 9	Feb 13 2009	
		Fruit, stone, group 12		
		Cranberry		
		Pea, southern		
		Mint		
Methoxyfenozide - Codex	I	Vegetable, root, subgroup 1A	Feb 13 2009	
		Vegetable, tuberous and corm, except potato, subgroup 1D		
		Vegetable, legume, edible podded, subgroup 6A		
		Pea and bean, succulent shelled, subgroup 6B		
		Bean (dry seed)		
		Soybean		
		Vegetable, cucurbit, group 9		
		Fruit, citrus, group 10		
		Bushberry subgroup 13B		
		Cranberry		
		Strawberry		
		Peanut		
		Avocado		
		Papaya		
Buprofezin - Codex	I	Grape	Jan 13 2009	
		Fruiting Vegetables		
		Pome Fruit		
		Stone fruit		
		Bean		
		Cucurbits		
		Olive		
		Almond		
Quinoxyfen - EU	F	Hops	10084	Apr 24 2009
Acequinocyl - Japan	I	Hops	09370	Sept 10, 2009

*F=fungicide, H=herbicide, I=insecticide/acaricide, M=molluscide, P=plant growth regulator, R=rodenticide

ATTACHMENT 4 - New Tolerances and Approvals – 2009

1) RULES PUBLISHED IN THE FEDERAL REGISTER

Permanent Tolerances

Pest Control Agent / Type*		Date	Commodity or Crop Group	PR#	No. of Uses	No. of Tolerances
Dimethomorph	F	Mar 04 2009	Ginseng	08958	1	1
			Turnip, greens	07599	3	1
			Bean, lima (regional registration)	07261	1	1
			Bean, succulent (regional registration)	---	14	1
			Grape (regional registration)	06794	1	2
			Potato	---	1	2
Famoxadone	F	Mar 04 2009	Caneberry subgroup 13-07A (replaces tolerance on subgroup 13A)	08766	1	1
			Vegetable, leafy, except brassica, group 4, except spinach (replaces tolerance on head lettuce)	08499 08758	27	1
			Cilantro	---	1	1
			Spinach	08308	1	1
			Onion, bulb, subgroup 3-07A Onion, green, subgroup 3-07B	08303	26	2
Tebuconazole	F	Mar 04 2009	Cherry (pre- and post-harvest)	06554	1	2
Chlorimuron-ethyl	H	Mar 11 2009	Berry, low growing, except strawberry, subgroup 13-07H	03023	8	1
Fenpropathrin	I	Mar 25 2009	Caneberry subgroup 13-07A	08735	5	1
			Fruit, stone, group 12, except cherry	08962 08963	10	1
			Cherry	08016	1	2
			Nut, tree, group 14 Pistachio	08961	13	3
			Olive	09374	1	1
			Avocado Black sapote Canistel Mamey sapote Mango Papaya Sapodilla Star apple	07861 07858 07862 07863 07859 07856 07860 07857	8	8
Propiconazole	F	Mar 25 2009	Beet, garden	06352	2	2
			Cilantro	06371	1	1
			Parsley	06351	1	1
			Pineapple	06585	1	1
				Totals	129	38

*F=fungicide, H=herbicide, I=insecticide/acaricide, M=molluscide, P=plant growth regulator, R=rodenticide

ATTACHMENT 4 – Continued

Pest Control Agent / Type*		Date	Commodity or Crop Group	PR#	No. of Uses	No. of Tolerances
Quinoxyfen	F	Apr 01 2009	Fruit, stone, group 12 (replaces tolerances on sweet and tart cherries)	08462 08463	9	1
			Artichoke, globe	08817	1	1
			Squash, winter Pumpkin Gourd, edible	07653 08639	3	3
Spiromesifen	I	Apr 08 2009	Berry, low growing, subgroup 13-07G (replaces tolerance on strawberry)	10086	8	1
			Corn, sweet	09924	1	3
Cyhalofop-butyl	H	Apr 08 2009	Wild rice	08951	1	1
Acibenzolar	F	May 26 2009	Onion, bulb, subgroup 3-07A	09090	11	1
Etoxazole	I	May 27 2009	Cucumber	09208	1	1
			Tomato	09109	2	1
			Peppermint Spearmint	08816	2	4
			Fruit, stone, group 12, except plum (Tolerance already established on cherry) Plum	09045 09046	10	3
Triflumizole	F	Jun 03 2009	Leafy greens subgroup 4A, except spinach	08863 08868 08993 09298	21	1
			Brassica, head and stem, subgroup 5A	08869 09143 09319 09586	11	1
			Brassica, leafy greens, subgroup 5B	08865 08866	8	1
			Cilantro leaves	08864	1	1
			Swiss chard	08867	1	1
			Turnip greens	08883	1	1
			Hops	08967	1	1
			Pineapple	08830	1	1
			Papaya Black sapote Canistel Mamey sapote Mango Sapodilla Star apple	09332	7	7
Cyazofamid	F	Jul 08 2009	Vegetable, fruiting, group 8 Okra	08509	9	2
			Grape (east of Rocky Mountains)	08773	1	1
				Totals	111	38

ATTACHMENT 4 – Continued

Pest Control Agent / Type*		Date	Commodity or Crop Group	PR#	No. of Uses	No. of Tolerances
Pyrimethanil	F	Jul 08 2009	Fruit, citrus, group 10, except lemon, postharvest Lemon, preharvest and postharvest (Above tolerances replace tolerance on Fruit, citrus, group 10 postharvest)	09085	1	3
			Fruit, stone, group 12 (Replaces tolerance on Fruit, stone, group 12, except cherry with increased tolerance that includes cherry)	08700 08701 08702	11	1
Buprofezin	I	Jul 10 2009	Coffee	08828	1	1
			Pomegranate	08973	1	1
Indoxacarb	I	Jul 10 2009	Beet, garden	08870	2	2
			Bushberry subgroup 13-07B	07038	19	1
Fenamidone	F	Jul 15 2009	Vegetable, root, except sugar beet, subgroup 1B, except radish	---	16	1
			Cilantro leaves	---	1	1
			Turnip greens	07975	3	1
			Okra	---	1	1
			Grape (east of Rocky Mountains)	08164	1	1
Fenpyroximate	I	Jul 29 2009	Vegetable, fruiting, group 8 Okra	08617 09021 09027 09284	10	2
			Melon subgroup 9A	09022	3	1
			Cucumber	10109	1	1
Spinetoram	I	Aug 13 2009	Date	10152	1	1
			Pomegranate	10197	1	1
			Pineapple	10133	1	2
			Hops	10089	1	1
			Spice subgroup 19B	---	30	1
Methoxyfenozide	I	Sep 02 2009	Fruit, citrus, group 10 (regional registrations)	07061 09367 09414 09415	14	2
			Corn, pop	10094	1	2
			Pea, dry seed	07527	2	1
			Pomegranate	10160	1	1
Pendimethalin	H	Sep 09 2009	Olive	07607	1	1
Spinosad	I	Sep 23 2009	Date	10153	1	1
			Pomegranate	10228	1	1
Thiamethoxam	I	Sep 30 2009	Vegetable, root, subgroup 1A	09675	19	1
			Avocado, Papaya, Black sapote, Canistel, Mamey sapote, Mango Sapodilla, Star apple	09607 08826	8	8
			Berry, low growing, subgroup 13-07G except cranberry	---	7	1
			Bushberry subgroup 13-07B except lingonberry and lowbush blueberry	---	12	1
			Caneberry subgroup 13-07A	---	1	1
				Totals	173	45

*F=fungicide, H=herbicide, I=insecticide/acaricide, M=molluscide, P=plant growth regulator, R=rodenticide

ATTACHMENT 4 – Continued

Pest Control Agent / Type*		Date	Commodity or Crop Group	PR#	No. of Uses	No. of Tolerances
Pyriproxyfen	I	Oct 28 2009	Vegetable, leafy, except brassica, group 4	08975	29	1
			Fruit, small, vine climbing, except grape, subgroup 13-07E	09359	6	1
			Vegetable, leaves of root and tuber, group 2		16	1
			Vegetable, foliage of legume, group 7		3	2
			Artichoke, globe		1	1
			Asparagus		1	1
			Watercress		1	1
Hexythiazox	I	Dec 02 2009	Potato	08829	1	1
Novaluron	I	Dec 09 2009	Brassica, leafy greens, subgroup 5B	08420 08421	8	1
			Bushberry subgroup 13-07B	09052	19	1
			Fruit, stone, group 12, except cherry Cherry	09047 09048 09347	11	3
Clothianidin	I	Dec 09 2009	Berry, low growing, except strawberry, subgroup 13-07H	09399	8	1
			Peach	08544	2	1
			Vegetable, tuberous and corm, subgroup 1C	09065	17	1
Prometryn	H	Dec 18 2009	Carrot	01682	1	1
			Celeriac	03567	1	2
			Cilantro (coriander) leaves	08996	1	2
			Parsley	03618 05160	1	2
			Okra	08575	1	1
			Leaf petioles subgroup 4B	02480 03217 06590	7	1
Dinotefuran	I	Dec 18 2009	Brassica, leafy greens, subgroup 5B	08626 08628 08629	8	1
			Turnip greens	08627	1	1
Fenarimol	F	Dec 23 2009	Hops	06940	1	1
Bifenazate	I	Dec 23 2009	Bean, dry seed	08929	22	1
				Totals	167	30

*F=fungicide, H=herbicide, I=insecticide/acaricide, M=molluscide, P=plant growth regulator, R=rodenticide

ATTACHMENT 4 – Continued

Permanent Tolerances for Indirect or Inadvertent Residues

Pest Control Agent / Type*		Date	Commodity or Crop Group	PR#	No. of Uses	No. of Tolerances
Endothall	H	Dec 20 2009	Vegetable, root and tuber, group 1	09762	37	2
			Vegetable, leaves of root and tuber, group 2		16	1
			Vegetable, bulb, group 3-07	09763	26	1
			Vegetable, leafy, except brassica, group 4	09757	29	1
			Brassica, head and stem subgroup 5A	09764	11	1
			Brassica, leafy, subgroup 5B		8	1
			Vegetable, legume, edible podded, subgroup 6A	09765	12	1
			Pea and bean, succulent shelled, subgroup 6B		12	1
			Pea and bean, dried shelled, except soybean, subgroup 6C		24	1
			Vegetable, foliage of legume, group 7		3	1
			Vegetable, fruiting, group 8 Okra	09766	10	4
			Vegetable, cucurbit, group 9	09755	14	1
			Fruit, citrus, group 10	09759	14	2
			Fruit, pome, group 11	09767	7	2
			Fruit, stone, group 12	09769	11	1
			Caneberry subgroup 13-07A	09770	5	1
			Bushberry subgroup 13-07B		19	1
			Nut, tree, group 14 Pistachio	09771	13	2
			Grain, cereal, group 15, except corn Corn, field Corn, pop Corn, sweet	09761 09768	14	6
			Grain, cereal, forage, fodder, and straw, group 16		0	1
			Grain, aspirated fractions		0	1
			Grass, forage, fodder and hay, group 17	09760	3	2
			Animal feed, nongrass, group 18	09756	11	2
			Herbs and spices group 19	---	70	1
			Grape	09754	1	2
			Mint	09758	1	2
			Soybean	---	1	2
			Cattle	---	---	4
			Egg	---	---	1
			Feed commodities not otherwise listed	---	---	1
			Food commodities not otherwise listed	---	---	1
			Goat	---	---	4
			Hog	---	---	4
			Milk	---	---	1
			Poultry	---	---	4
			Sheep	---	---	4
				Totals	372	68

*F=fungicide, H=herbicide, I=insecticide/acaricide, M=molluscide, P=plant growth regulator, R=rodenticide

ATTACHMENT 5 – PENDING FOOD PROGRAM SUBMISSIONS
Final Report in Progress (All Data Received at HQ)

Product	Crop(s)
2,4-D	Strawberry (Annual)
Acequinocyl	Cherry, Cucumber (GH & Field)
Acetamiprid	Asparagus
Anthraquinone	Corn (Field)
Azoxystrobin	Bushberry Subgroup, Caneberry Subgroup, Low growing berry subgroup, Onion (Bulb) Subgroup, Onion(Green) Subgroup, Small fruit vine climbing subgroup, except fuzzy kiwifruit
Boscalid	Garlic, Onion (Dry Bulb), Turnip Greens
Boscalid + Pyraclostrobin	Celeriac
Bromoxynil	Millet
Chlorfenapyr	Vegetable Transplants
Clethodim	Camelina
Cyprodinil	Bushberry Subgroup, Caneberry Subgroup, Low growing berry subgroup, Onion (Bulb) Subgroup, Onion(Green) Subgroup, Small fruit vine climbing subgroup, except fuzzy kiwifruit
Cyprodinil + Fludioxonil	Pepper (Bell & Non-Bell)
Ethafluralin	Kenaf
Famoxadone + Cymoxanil	Bean (Lima)
Fenamidone	Onion (Bulb) Subgroup, Onion(Green) Subgroup
Fipronil	Popcorn
Fluazifop-p-butyl	Sweet Potato
Fludioxonil	Blueberry
Flumioxazin	Artichoke
Fluopicolide	Arracacha
Glyphosate	Horseradish, Lettuce (Head & Leaf), Mustard Greens, Teff
Indoxacarb	Small fruit vine climbing subgroup, except fuzzy kiwifruit, Low growing berry subgroup, except strawberry
Lambda-cyhalothrin	Onion (Bulb) subgroup, Millet, Pearl, Tea
Mancozeb	Blueberry, Guava, Lychee
Mesotrione	Currant (Red)
Metribuzin	Tanier

ATTACHMENT 5 Continued

NAA	Almond, Grapefruit, Plum, Walnut
Pendimethalin	Mustard Greens
Pronamide	Grasses (Orchard, Pasture, Seed Crop), Lettuce (Leaf), Safflower
Propiconazole	Citrus (Post Harvest)
Pyrimethanil	Low growing berry subgroup, Onion (Bulb) subgroup, Onion (Green) subgroup, Small fruit vine climbing subgroup, except fuzzy kiwifruit
Quizalofop	Mustard (Seed)
Rimsulfuron	Blueberry, Caneberry
s-Metolachlor	Cilantro
Spinosad	Caneberry
Spirodiclofen	Guava, Sugar Apple
Spirotetramat	Watercress
Sulfentrazone	Turnip (Roots & Tops)
Thiacloprid	Blueberry
Thiophanate-methyl	Pepper (GH & Field)
Zeta-cypermethrin	Tea

ATTACHMENT 5 – PENDING FOOD PROGRAM SUBMISSIONS
Final Report Complete (Submission Pending)

Product	Crop(s)
2,4-D	Lentil
Abamectin	Bean (Aduzuki, Dry), Chives, Onion (Dry Bulb)
Acequinocyl	Bean (Succulent Shelled), Cantaloupe, Caneberry
AVG	Cherry, Peach, Plum
Boscalid + Pyraclostrobin	Artichoke, Persimmon
Bromoxynil	Leek
Captan	Ginseng
Clomazone	Broccoli, Rhubarb
DCPA	Carrot, Prickly Pear Cactus
Dinotefuran	Onion (Green), Watercress
Diquat	Sesame, Watercress
Diuron	Apricot, Cherry, Plum
Emamectin Benzoate	Cucumber
Ethephon	Sweet Potato, Tomato
Ethofumesate	Cilantro, Dill
Famoxadone + Cymoxanil	Greens (Mustard)
Fenamidone	Ginseng
Fenhexamid	Kiwifruit
Fipronil	Plantain
Flucarbazone-sodium	Grasses (Seed Crop)
Fludioxonil	Ginseng
Flumioxazin	Cabbage, Prickly Pear Cactus
Fluroxypyr	Mint
Flutolanil	Radish
Imazalil	Mushroom
Indoxacarb	Bean (Dry, Snap)
Lambda-cyhalothrin	Asparagus (Fern), Carrot, Radish, Rutabaga, Turnip (Roots)
Linuron	Dill
Metaldehyde	Celery, Grasses (Seed Crop), Mint, Rhubarb, Swiss Chard, Taro (Wet Land)

ATTACHMENT 5 Continued

Methiocarb	Artichoke
Methoxyfenozide	Radish
Metribuzin	Pea (Succulent)
Napropamide	Mint
Oxyfluorfen	Onion (Green), Strawberry (Transplants), Tomato
Paraquat	Broccoli
Pendimethalin	Lettuce (Leaf)
Prometryn	Bean (Snap)
Pyrimethanil	Ginseng
Sethoxydim	Grasses
s-Metolachlor/Metolachlor	Cilantro, Lettuce (Leaf), Spinach
Spirodiclofen	Lychee, Okra, Pepper (Bell & Non-Bell)
Spirotetramat	Watercress
Sulfentrazone	Blueberry, Rhubarb, Wheat
Tebuconazole	Apricot, Nectarine, Peach (all post harvest)
Terbacil	Peach, Strawberry (Annual)
Thidiazuron	Grape
Thifensulfuron + Rimsulfuron	Chicory (Roots)
Zeta-cypermethrin	Artichoke, Barley
Zinc Phosphide	Grasses (Seed Crop)

ATTACHMENT 6 – 2009 ORNAMENTAL HORTICULTURE PROGRAM

FIELD COOPERATORS

Cooperators

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Dr. E. Beste	MD
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Mr. B. Fraelich	GA
Mr. R. Frank	MD
Mr. T. Freiberger	NJ
Dr. N. Grunwald	OR
Dr. J. Harvey	WA
Dr. M. Reding	OH
Mr. P. Wade	SC

ATTACHMENT 7 – 2009 ORNAMENTAL HORTICULTURE PROGRAM

RESEARCH ACTIVITIES

Discipline	Project Title	Number of Products	Number of Crops	Number of Trials
Plant Pathology	Acibenzolar Crop Safety *	1	27	35
	Bacterial Efficacy *	26	7	101
	Downy Mildew Efficacy *	11	5	46
	Fluopicolide (V-10161) Crop Safety *	1	18	48
	Phytophthora Efficacy	24	4	58
Weed Science	2007 Sedge Materials Crop Safety	3	25	69
	2008/2009 Crop Safety Project for Over the Top Applications *	4	101	326
	Broadleaf Weed & Sedge Management Crop Safety *	2	52	68
	Early Post Emergent Efficacy for Broadleaved Weeds *	9	0	33
	F6875 Crop Safety	2	11	17
	Glyphosate Crop Safety	1	1	1
	Halosulfuron Plant Back Crop Safety	1	1	1
	Liverwort Efficacy	1	0	8
	Mesotrione Crop Safety	2	15	18
	Oxyfluorfen + Prodiamine Crop Safety	1	15	21
	Sulfosulfuron Crop Safety *	1	73	111
	Trifluralin + Isoxaben + Oxyfluorfen Crop Safety	1	2	3
	Trifluralin + Isoxaben Crop Safety	1	34	46
	V-10142 Crop Safety	1	1	1
Entomology	Borer & Beetle Efficacy *	16	9	64
	Leafminer Efficacy	4	2	10
	Mealybug Efficacy	7	2	10
	Q-Biotype Whitefly Efficacy	9	2	16
	Scale Efficacy *	17	7	90
	Spirotetramat Crop Safety *	1	25	45
	Thrips Efficacy *	14	4	26
	White Grub & Root Weevil Efficacy	3	3	7
	Mollusc Efficacy	3	0	3
PGRs	Herbaceous Shelf Life *	7	2	19
	Woody Ornamental Branching *	2	3	6

* High Priority Projects

For a detailed list of research activities visit ir4.rutgers.edu.

ATTACHMENT 8 – SUMMARIES OF 2009 ORNAMENTAL HORTICULTURE RESEARCH

Azoxystrobin Crop Safety

Azoxystrobin was registered as Heritage in the United States in 1997 as a turf fungicide. In April 2003, this label was updated to include applications for certain diseases on ornamental crops. The label contains an extensive list of ornamental horticulture plants where Heritage can be used without causing phytotoxicity. From 1999 to 2002, the IR-4 Project conducted 100 trials on 75 ornamental plant species examining phytotoxicity related to Heritage applications. In these trials, only 2 crops (*Pseudotsuga menziesii* and *Tsuga heterophylla*) exhibited noticeable, significant injury and that was a slight height reduction and stem swelling at the 2X and 4X rates applied as drench to emerged seedlings. Based on this information, it is recommended that 53 plants in the IR-4 trials be added to the list of tolerant plants with the precautionary statements in the Plant Safety and Tolerant Ornamentals Plant sections of the current Heritage 50WG label.

Clopyralid Crop Safety

Lontrel (clopyralid) was initially registered in 1998 for ornamental horticulture uses. This initial label contained an extensive list of ornamental horticulture plants where Lontrel could be used without causing phytotoxicity. From 1985 to 2002, IR-4 examined 66 ornamental plant species for phytotoxicity related to Lontrel applications. Of the researched crops, only two crops (*Hemerocallis* sp. and *Ilex cornuta*) can be added to the label at this time based on the data provided here.

Dimethenamid-p Crop Safety

During 2007 and 2008, IR-4 completed 160 trials on Tower EC (dimethenamid-p). The data contained in this report was generated to register uses of dimethenamid on and around ornamental horticulture plants with over-the-top applications. The dimethenamid rates in the 2007 testing program were 0.97, 1.94 and 3.88 pounds active ingredient per acre (lb ai per A) as the 1X, 2X and 4X rates. Tower EC had been applied to 59 plant genera or species. Of these, 22 exhibited no or minimal transient injury after application at all three rates. Two crops exhibited no phytotoxicity at 0.97 and 1.94 lb ai per acre, but did have some injury at 3.88 lb ai per acre. No crops exhibited significant phytotoxicity at even the lowest rate.

Dimethenamid-p + Pendimethalin Crop Safety

During 2007 and 2008, IR-4 completed 246 trials on Freehand G (BAS 659 G; dimethenamid-p + pendimethalin). The data contained in this report was generated to register uses of dimethenamid on and around ornamental horticulture plants with over-the-top applications. The dimethenamid rates in this testing program were 2.65, 5.3 and 10.6 pounds active ingredient per acre (lb ai per A) as the 1X, 2X and 4X rates. Freehand G had been applied to 88 plant genera or species. Of these, 30 exhibited no or minimal transient injury after application at all three rates. Nine crops exhibited no phytotoxicity at 2.65 and 5.3 lb ai per acre, but did have some injury at 10.6 lb ai per acre: *Acer rubrum, Campanula sp., Cotoneaster sp., Heuchera sp., Ligustrum sp., Nepeta x faasseni, Phlox subulata, Veronica spicata, and Vinca sp*. Nine crops exhibited significant phytotoxicity at even the lowest rate: *Amsonia hubrichtii, Aquilegia sp., Calamagrostis acutiflora , Coreopsis auriculata, Festuca ovina glauca, Impatiens sp. (New Guinea Hybrids), Lamium galeobdolon, Phlox paniculata, and Scabiosa sp.*

EXC3898 Crop Safety

During 2008, IR-4 completed 97 trials on EXC3898 (mesotrione + prodiamine + s-metolachlor). The data contained in this report was generated to register uses of EXC3898 on and around ornamental horticulture plants with over-the-top applications. The mesotrione rates were 2.1, 4.2 and 6.3 pounds active ingredient per acre (lb ai per A) as the 1X, 2X and 3X rates. EXC3898 had been applied to 39 plant genera or species. Of these, five exhibited no or minimal transient injury after application at all three rates. Twenty crops exhibited significant phytotoxicity at even the lowest rate: *Buddleia davidii, Dianthus gratianopolitanus, Echinacea purpurea , Hydrangea quercifolia, Ilex sp., Lagerstroemia indica, Liriope sp. , Ophiopogon sp.,*

Phlox paniculata, Phlox subulata, Picea sp., Pseudotsuga menziesii , Rosa sp., Salvia sylvestris, Spiraea sp., Taxus sp., Thuja occidentalis, Veronica sp., Viburnum sp., and *Vinca sp.*

F6875 Crop Safety

Since 2007, IR-4 has completed 175 trials with products containing sulfentrazone + prodiamine (F6875 0.3G and F6875 4SC) on 76 crops. The data contained in this report was generated to register uses of sulfentrazone + prodiamine formulation on and around ornamental horticulture plants with over-the-top applications. The rates tested were 0.375, 0.75 and 1.5 pounds active ingredient per acre (lb ai per A) as the 1X, 2X and 4X rates. F6875 4SC had been applied to 14 crops, but no conclusions can be drawn from this minimal set of data. F6875 0.3G had been applied to 62 plant genera or species. Of these, 14 exhibited no or minimal transient injury after application at all three rates. Nine crops (*Buddleia davidii, Echinacea sp., Hemerocallis sp., Hosta sp., Iris sp., Lobularia maritima, Ophiopogon sp., Phlox paniculata,* and *Phlox subulata*) exhibited phytotoxicity at even the lowest rate.

Flumioxazin Crop Safety

During 2008, IR-4 completed 95 trials on Broadstar 0.25G VC1604 (flumioxazin). The data contained in this report was generated to confirm register uses of flumioxazin on and around ornamental horticulture plants with over-the-top applications. The flumioxazin rates in the 2008 testing program were 0.375, 0.75, and 1.5 pounds active ingredient per acre (lb ai per A) as the 1X, 2X and 4X rates. Broadstar 0.25G VC1604 had been applied to 51 plant genera or species. Of these, 43 exhibited no or minimal transient injury after application at all three rates. No crops exhibited significant phytotoxicity at even the lowest rate, but 8 species or genera need additional information to clarify crop response.

Imazasulfuron Crop Safety

From 2006 to 2008, IR-4 conducted 216 trials with V-10142 0.5G and V-10142 75WDG (imazasulfuron) on over 50 crops. This research was undertaken to determine the level of crop safety these formulations have when used as over-the-top applications. The imazasulfuron rates were 0.5, 1.0 and 2.0 pounds active ingredient per acre (lb ai per A) as the 1X, 2X and 4X rates. Of the tested crop and formulations, only 14 exhibited no or minimal transient injury after application at all three rates. Twelve species for V-10142 0.5G and 19 for V-10142 75WDG exhibited phytotoxicity at even the 0.5 lb ai per acre rate.

Mesotrione Crop Safety

During 2007 and 2008, IR-4 completed 113 trials on Mesotrione SC. The data contained in this report was generated to register uses of mesotrione on and around ornamental horticulture plants with over-the-top applications. The mesotrione rates were 0.187, 0.25 and 0.37 pounds active ingredient per acre (lb ai per A) as the 1X, 1.5X and 2X rates. Mesotrione SC had been applied to 39 plant genera or species. Of these, five exhibited no or minimal transient injury after application at all three rates. Twenty crops exhibited significant phytotoxicity at even the lowest rate: *Buddleia davidii, Dianthus gratianopolitanus, Echinacea purpurea , Hydrangea quercifolia, Ilex sp., Lagerstroemia indica, Liriope sp. , Ophiopogon sp., Phlox paniculata, Phlox subulata, Picea sp., Pseudotsuga menziesii , Rosa sp., Salvia sylvestris, Spiraea sp., Taxus sp., Thuja occidentalis, Veronica sp., Viburnum sp.,* and *Vinca sp.*

Oxyfluorfen Crop Safety

Oxyfluorfen (Goal 2XL) has been registered in the United States since 1979 (Goal 2E) for uses in and around ornamental plants in production nurseries and in landscapes.The label recommends over-the-top or directed spray to conifers, with a precaution not to make over-the-top application during periods of active conifer growth. It is registered for field-grown deciduous trees used only as a directed spray to soil beneath the trees. Between 1976 and 1997, the IR-4 Project conducted over 905 trials using two granular formulations (Goal 1G, Goal 2G), a liquid formulation (Goal 2E) and two wettable powder formulationss

(Goal 25WP, Goal 30WP). This report is the first summary across all the available data generated through IR-4.

Thirty-nine plant species or genera exhibited no or minimal, transitory phytotoxicity to over-the-top applications of Goal 1G and Goal 2G formulations. Of these, 8 species are already registered for Goal 2XL.
Three species exhibited no phytotoxicity with over-the-top Goal G applications at 1.0 and 2.0 lb ai per acre, but significant phytotoxicity occurred at 4.0 and 8.0 lb ai per acre
Thirteen crops demonstrated significant phytotoxicity at all tested rates of Goal 1G or 2G. Of these crops, two deciduous crops are are already registered for Goal 2XL applied only as directed spray.
Goal 2E or 25/30WP applied over-the-top exhibited no or minimal negative impact on eight conifers and only three other plant species. Five of these conifers are already registered for Goal 2XL.
One species exhibited no phytotoxicity with over-the-top Goal 2E or 25/30WP over-the-top applications at at 1.0 or 2.0 lb ai per acre, but significant phytotoxicity occurred at 4.0 and 8.0 lb ai per acre.
Twenty-seven crops exhibited significant damage at all tested rates of Goal formulations applied as liquid spray over-the-top. Of these crops, one deciduos species is already registered for Goal 2XL applied only as directed spray.

Pendimethalin Crop Safety

Pendimethalin has been registered in the United States since 1994 for uses in and around ornamental plants in production nurseries and in landscapes. Between 1981 and 2008, the IR-4 Project has conducted over 469 trials using two granular formulation (Corral 2.68G and Pendulum 2G), two liquid formulations (Pendulum AquaCap and Prowl 4E) and a wettable dry granular formulation (Pendulum WDG). This is the first summary across all the available data generated through IR-4.
Seventy plant species or genera exhibited no or minimal, transitory phytotoxicity to over the top applications of Corral 2.68G and Pendulum 2G formulations. Of these, 9 species or genera are not on the current Pendulum 2G label. It is recommended that these be placed on this label.
Thirty seven plant species or genera exhibited no or minimal transitory phytotoxicity to applications of Pendulum AquaCap and Pendulum WDG formulations. All these ornamentals are currently listed on the Pendulum AquaCap label. One species (*Stachys byzantina*) exhibited phytotoxicity at 2 lb ai per acre and higher rates.
Twenty plant species or genera exhibited no or minimal transitory phytotoxicity to applications of Prowl 4E. Of these, one (*Paeonia* sp.) is not currently listed on the label. It is recommended that this ornamental be placed on the current Pendulum 3.3EC label.

Phytophthora Efficacy

From 2003 to 2008, 50 products were tested through the IR-4 Program as drench or foliar applications against nine *Phytophthora* species causing root rots and stem/leaf blights (Table 1). *Phytophthora* species tested included: *P. cactorum*, *P. cinnamomi*, *P. citricola, P. cryptogea, P. dreschleri*, *P. nicotianae*/*parasitica, P. palmivora, P. ramorum, P. syringae,* and *P. tropicalis*. Control of *Phytophthora cinnamomi* root rot was achieved primarily with drench applications onto azaleas. When this pathogen was tested on rhododendrons, the data were either inconclusive or the products did not perform as well as on azaleas with the exception of Magellan and Fenamidone. For *Phytophthora dreschleri* root rot, the good to excellent efficacy was achieved with several products including BioPhos, Segway, Stature DM, and Terrazole. For *Phytophthora nicotianae*, consistent efficacy across crops was difficult to achieve, but the best performers included Aliette, Biophos, Fenamidone, Insignia, Segway and Stature DM. The best control of *Phytophthora citricola* blight was achieved with foliar applications of the phosphorus acid generators Aliette, Biophos and Magellan. For *Phytophthora ramorum* blights, Subdue MAXX provided the most consistent control. Fenamidone, Insignia, Segway, Stature and Adorn (V-10161) also provided

good control. For *Phytophthora tropicalis*, the best control was achieved with Stature and Adorn (V-10161).

Sulfentrazone Crop Safety

Since 1996 IR-4 has completed 247 trials with products containing sulfentrazone (Sulfentrazone 0.2G and Sulfentrazone 4F) on 111 crops. The data contained in this report was generated to register uses of sulfentrazone on and around ornamental horticulture plants with over-the-top applications. The sulfentrazone rates in the testing programs were 0.125, 0.25 and 0.5 pounds active ingredient per acre (lb ai per A) as the 1X, 2X and 4X rates. Sulfentrazone 0.2G had been applied to 54 plant genera or species. Of these, 12 exhibited no or minimal transient injury after application at all three rates. One crop exhibited no phytotoxicity at 0.125 and 0.25 lb ai per acre, but did have some injury at 0.5 lb ai per acre. Only 3 crops (*Canna sp.*, *Echinacea purpurea*, and *Hosta sp*.) exhibited phytotoxicity at even the lowest rate. Sulfentrazone 4F has been applied to 57 crops since 1996. Of these only 6 (*Buxus sp., Ilex vomitoria 'nana', Juniperus horizontalis, Rosa sp., Taxus sp.*, and *Thuja sp.*) exhibited no damage with over the top applications at all tested rates. Seven crops had minimal, transitory damage at the lower rates but some phytotoxicity at the 4X rate and 15 crops exhibited damage at all tested rates.

Thrips Efficacy

For the last 4 years, the IR-4 Ornamental Horticulture Workshop has ranked developing efficacy data on new products to manage thrips as a High Priority Project. Thrips remain an important threat for several reasons: 1) the damage thrips cause to ornamental horticulture plants, decreasing the value of the infested crops; 2) the tospoviruses (tomato spotted wilt, impatiens necrotic ringspot) they can vector; 3) the newly arrived invasive species which impact at least 250 different ornamental horticulture species; and 4) growers lack the ability to rotate among 3 to 4 different modes of actions to effectively manage resistance development in the thrips populations they must control to maintain economic viability. From 2006 through 2009, 55 products representing 46 different active ingredients were tested for thrips management. These products represented both biological and chemical tools. Some products were already registered but more data were needed particularly with the newly invasive thrips species or they were considered standards to measure the level of efficacy achieved with other materials. Other products were in development but have not yet been registered with the EPA. The five thrips species tested in the IR-4 program were Chilli Thrips (*Scirtothrips dorsalis*), Gladiolus Thrips (*Thrips simplex*), Privet Thrips (*Dendothrips ornatus*), Weeping Fig Thrips (*Gynaikothrips uzeli*), and Western Flower Thrips (*Frankliniella occidentalis*).

Whitefly Efficacy

Whiteflies are significant pests of ornamental horticulture crops. Three whiteflies species and biotypes contribute to crop production losses in the United States: greenhouse whitefly (*Trialeurodes vaporariorum*), silverleaf whitefly B biotype (*Bemisia tabaci* B Biotype), and silverleaf whitefly Q biotype (*Bemisia tabaci* Q Biotype). From 2002 through 2009, 66 products or rotational/tank mix treatments comprised of 37 different active ingredients were tested through this screening program. The best products for Q biotype eradication, and those that should be reserved for critical situations, were Judo and Safari. However, Avid, Sanmite, and TriStar also demonstrated effective control and should be utilized routinely as part of the overall management program for Bemisia whiteflies. Mycoinsecticides under these testing conditions did not perform as well as anticipated for Q biotype whitefly management.

Woody Plant Branching

Many woody plant species do not branch adequately when small plants are being grown in a container nursery production system. In order to produce a well branched plant that meets desired size specifications, plants are usually pruned frequently, though some still do not branch as much as desired. Developing plant growth regulators that could increase branching is important to provide ornamental nursery growers an

additional tool that they can use to produce more desirable plants. During a conference call with key plant growth regulator researchers, screening a number of products to enhance branching pattern of certain container grown ornamentals became one of the high priority projects for herbicide/plant growth regulators. From 2006 to 2008, 9 products representing 5 different active ingredients were tested for enhanced branching on several container grown woody ornamental species. Some products were already registered for use as plant growth regulators (PGR) on food crops. These products were in development for use on ornamentals but have not yet been registered with the EPA. While a number of container grown ornamental species were tested, only enough experiments were able to be completed on azalea to recommend actions to register for use on this species. Two products (Tiberon 2.8SC and MaxCel) provided sufficient levels of branching in azalea.

ATTACHMENT 9- Biopesticide and Organic Support Program

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Biopesticide Registration Packages Submitted in 2009

Product	Crop	PR Number	TYPE	Registration Type
Acetic acid	All food Crops	0370B	Herbicide	Amendment
Trichoderma hamatum 382	All Food Crop	0049B	Fungicide	Amendment
Bacteriophage of *Clavibacter michiganensis*	Tomato	0430B	Bacteriacide	Section 3
Tobacco Mild Green Mosaic Tobamovirus	All food Crops	0367B	Herbicide	Section 3
Aspergillus flavus AF36	Corn	0378B	Fungicide	Section 3

ATTACHMENT 9 – Continued

New Uses Supported by the Biopesticide Efficacy Grant Program

Active Ingredient	Crop	PR Number
Bacillus mycoides isolate J	pecans	0541B
Bacillus mycoides isolate J	sugar beet	0107B
Bacillus mycoides isolate J	tomato	0388B
Potassium phosphate	GH tomato	0560B, 0431B
Potassium phosphate	GH pepper	0560B
Potassium phosphate	GH cucumber	0560B
E, E-8, 10-Dodecadienol	apple	0492B, 0498B 0499B

Biopesticide Grant Proposals Funded 2009

Grant Stage—Early

- Longevity and efficacy of the biological fungicide, BW 240, following consecutive challenges and as a preventive treatment in combination and following a standard fungicide drench application against *Pythium ultimu, P. aphanidermatum,* and *Phytophthora nicotianae* in bedding plant production.

- Post-harvest management of fungal and termite biodegradation of yellow pine with essential oils.

- Development of a management strategy to control chili thrips on "jalapeno pepper using botanical and biological pesticides.

- Application of a new organic product (CG100) to control powdery mildew in grapevine in California

Grant Stage—Advanced

- Efficacy evaluation of a combination biopesticide "AZERA" for managing multiple insect pests in organic vegetable production.

- Evaluating biopesticides for control of black rot and Phomopsis in organic grape production.

- Evaluation of dormant applications for phosphate fungicide and the bark penetrating adjuvant Pentra Bark for control of early season apple scab

- Evaluation of the microbial biopesticide Taegro to manage the blossom blight phase of fire blight on apple.

- Managing western flower thrips with biopesticides in bedding plant production.

- Evaluation of Bioten for management of Phytophthora crown and root rot on pepper.

- Integration of biofungicides and conventional fungicides for management of peach brown rot.
- Efficacy of biofungicide products at the advanced stage of development for foliar diseases in organically-produced tomato.
- Application of Regalia SC (Milsana) to control common diseases in strawberry and almond in CA .
- Managing *Phytophthora capsici* on pepper & summer squash with combinations of Bioten and conventional fungicides.
- Evaluation of SPLAT-MAT with Spinosad and Methyl Eugenol or Cue-Lure for suppression/ eradication of oriental and melon fruit flies (Diptera: Tephritidae).
- Efficacy of post-harvest biofungicide treatment for control of Rhizoctonia root disease of St. Augustine grass sod.
- Evaluation of biopesticides for control of bacterial wilt on tomato.
- Mating disruption of the currant cane borer *Synthanedon tipuliformis* in Connecticut.
- Use of gibberellic acid (GA3) to increase yield of the "Hass" avocado: demonstration of a dose response.
- Toward the development of a microbial control strategy for Varroa mite.
- Evaluation of biopesticides for suppression of various bacterial diseases in tomato, pepper and cucumber under field conditions.
- Efficacy of biofungicide products at the advanced stage of development for downy mildew in organically-produced cucumber
- Efficacy of a novel biopesticide on cucumber beetles for organic systems.
- Biocontrol of grape powdery mildew: evaluating stategies to improve the efficacy of Actinovate (*Streptomyces lydicus* WYEC108) in integrated pest management.

Grant Stage—Demonstration

- Demonstration of efficacy of Contans in soybeans and dry beans.
- Managing rotation of biopesticides to control onion thrips
- Efficacy of biofungicide products at the demonstration state of development for foliar diseases in organically-produced tomato.
- A biological based tactic for control of blueberry maggot on wild blueberry

ATTACHMENT 9 – Continued

- Efficacy of biofungicide products at the demonstration stage of development for downy mildew in organically-produced cucumber.

- Biopesticide products effective for powdery mildew in pumpkin evaluated in integrated programs on other cucurbit crop types.

- Foliar disease management in organic blueberries using fish oil derivatives and inducers of host resistance.

- Use of bio-nematicides as alternatives to soil fumigants for nematode control in Florida tomato crop.

- Improving the efficacy of Bio-Save for control of Rhizopus soft rot of sweetpotato.

- Demonstrating the efficacy of biofungicides within a management system for powdery mildew on cantaloupe.

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