



International Agricultural Trade and Policy Center

Florida Agricultural Competitiveness and Trade

Final Report, July 1, 2002-June 30, 2005

**Institute of Food and Agricultural Sciences
Food and Resource Economics Department
Gainesville, Fl. 32611**



**UNIVERSITY OF
FLORIDA**

Executive Summary

The International Agricultural Trade and Policy Center (IATPC) was established in 1990 in the Food and Resource Economics Department (FRED) of the Institute of Food and Agricultural Sciences (IFAS) at the University of Florida. Its mission is to provide information, education, and research, both immediate and long-term, to enhance and sustain international agricultural trade and natural resource use. The Trade Center scope includes not only trade and related policy issues, but also agricultural, rural, resource, environmental, food, state, national, and international policies, regulations, and issues that influence trade and development.

The Center's objectives are to:

- Support initiatives enabling a better understanding of U.S. and international trade policy issues impacting the competitiveness of Florida agriculture and all specialty crops and livestock nationwide.
 - *Status: Faculty have been involved in discussions with the Bush Administration and in negotiations for trade agreements. Several key documents have been developed to help key policy makers and others understand the importance of specialty crops in U.S. and international policy discussions.*
- Serve as a nationwide resource base for research on international agricultural trade policy issues on all specialty crops and livestock.
 - *Status: Faculty have published 191 publications (including 29 Policy Briefs, 5 Technical Papers, 19 Monographs, and 12 Journal Articles available on the Trade Center web site: <http://www.fred.ifas.ufl.edu/iatpc>) in support of this objective*
- Disseminate agricultural trade related research results and publications.
 - *Status: Information has been disseminated through publications (191) and presentations (70). The IATPC also hosted 4 policy conferences for purposes of informing producers and policy makers on trade related issues. These Conferences averaged 125 attendees including academic, government and industry leaders.*
- Interact with researchers, business and industry groups, state and federal agencies, and policymakers to examine and discuss agricultural trade policy questions.
 - *Status: Cooperative partnerships have been developed with faculty outside the Center including: Hugh Bigsby of the Commerce Division of Lincoln University in Canterbury, New Zealand; Timothy Josling of the Stanford University Food Research Institute; Won Koo of the North Dakota State University Agribusiness and Applied Economics Department and; Steve Powell from the Levin College of Law at the University of Florida and with additional faculty at the Universities of Puerto Rico, Hawaii, and Guam. IATPC faculty have also served on several Advisory Boards to industry groups and on the International Trade Task Force for Congressman Adam Putnam. Faculty attended key trade meetings including the FTAA Ministerial meetings held in San Jose, Costa Rica, Buenos Aires, Argentina and Miami, Florida.*

Importance of U.S. and Florida's Agriculture

Agricultural products are an important component in the U.S. foreign trade sector. In 2004, agriculture accounted for seven percent of U.S. exports and four percent of U.S. imports. Agriculture's major contribution, however, is to the country's trade balance. From 1996 to 2000, agricultural trade showed an average annual surplus of \$17.2 billion as opposed to an average annual deficit of \$287.7 billion for nonagricultural trade. The average annual surplus for agriculture declined to \$11.2 billion in the 2001 to 2004 period while the average nonagricultural trade deficit grew to \$570.2 billion.

Florida was the tenth leading state in agricultural cash receipts in 2004, with more than \$6.8 billion, and was the fourth leading crop-producing state in the country, with \$5.4 billion in cash receipts. Livestock

sales added another \$1.4 billion. Florida ranked eleventh in net farm income at \$2.37 billion; yet received only \$214.4 million of the \$13.3 billion in direct government payments given to farmers in calendar year 2004. Agriculture accounts for more than 338,000 jobs in Florida. With economic multiplier effects, agriculture accounts for more than \$62 billion. Specialty crop producers are especially important to the state of Florida. Three of the four leading commodities in crop value are specialty crops: greenhouse/nursery at \$1.68 billion; oranges at \$900 million; sugarcane at \$517 million (not considered a specialty crop) and; tomatoes at \$500 million. Nationwide, specialty crops account for 28% of net farm receipts. State farmers ranked either first or second in the nation in the production of 15 major agricultural commodities in 2002, including oranges, sugarcane, fresh tomatoes, grapefruit, peppers, sweet corn, fresh cucumbers, fresh snap beans, tangerines, fresh squash, radishes, watermelon, strawberries, avocados, and greenhouse/nursery products. The sheer size and diverse nature of agricultural production in Florida and in specialty crops nationwide makes policy and trade related matters exceedingly important.

For U.S. and Florida agriculture, maintaining international competitiveness is increasingly difficult, due not only to resource and environmental considerations, but also because of trade openness and increased globalization. Even though U.S. agriculture is the most productive and efficient in the world, increased economic intelligence, sharpened policy-making capabilities, and closely observed competition is required through close cooperation of producers and agribusiness in general; the policy makers; and the academic community. The IATPC is well positioned and proactive as this cooperative institutional base. The Center focuses on research and education issues to help understand the implications of policy and trade related matters. The Center helps growers, industry leaders, the public, and policy makers to understand the issues that impact the future of agriculture.

Programs

Five key program areas, identified in the IATPC Medium Term Plan, are the focus of the Center. These areas were identified from industry consultation, assessment of current and projected changes in the domestic and international agricultural trade and policy areas, and are critical to the competitiveness of specialty crop growers in Florida and the nation. The programs include the following five areas which are summarized in subsequent pages:

- Risk Management and Capital Markets
- Agricultural Labor
- Regulatory Policy and Competitiveness
- Demand Systems and International Trade
- State and Local Government Policy and Agricultural Competitiveness

Projects under each program area are in progress and outputs to-date serve to improve information systems and to provide interim recommendations to policy makers and industry personnel about competitiveness, market impediments and opportunities, and agricultural and resource development needs.

Organization

A faculty Executive Director oversees Center operations and research activities. A Board of Directors, comprised of industry and public policy personnel identifies critical problems and issues facing the industry. IATPC faculty located in the Food and Resource Economics Department (FRED), affiliate faculty members, postdoctoral economists, and graduate students are responsible for research and policy analysis. IATPC grants total more than \$3.1 million for 2002-2005 in addition to the \$1 million specialty crop block grant.

The following faculty members participate in the IATPC:

Executive Director:

Dr. John J. VanSickle

Faculty Advisors:

Dr. Edward Evans, Tropical Research and Education Center UF/IFAS

Dr. Carlton Davis, FRED UF/IFAS

Dr. Thomas H. Spreen, FRED UF/IFAS

Dr. David Mulkey, FRED UF/IFAS

Dr. Richard Weldon, FRED UF/IFAS

Dr. Andrew Schmitz, FRED UF/IFAS

Dr. Richard Kilmer, FRED UF/IFAS

Dr. Robert Emerson, FRED UF/IFAS

Dr. James Seale, FRED UF/IFAS

Dr. Martha Roberts, UF/IFAS

Dr. Elias Dinopoulos, Economics UF

Dr. Daniel Cantliffe, Horticultural Sciences UF/IFAS

Dr. Douglas Archer, Food Science and Human Nutrition, UF/IFAS

Stephen Powell, Esq., FRED UF/IFAS and UF Levin College of Law

Affiliate Faculty Advisors:

Dr. Hugh Bigsby, Lincoln University, Forest Economics

Dr. Jim Ross, FRED UF/IFAS

Dr. Won Koo, North Dakota State University, Agribusiness and Applied Economics

Dr. Timothy Josling, Stanford University, Food Research Institute

The Board of Directors consists of the following members:

Walter Armbruster, President, Farm Foundation, Oak Brook, Illinois

Ben Bolusky, Executive Vice President, Florida Nurserymen & Growers Association,
Orlando, Florida

Reggie Brown, General Manager, Florida Tomato Exchange, Orlando, Florida

Pat Cockrell, Director of Agricultural Policy, Florida Farm Bureau, Gainesville,
Florida

Keith Collins, Chief Economist, USDA, Washington, D.C.

Andy LaVigne, President, Citrus Mutual, Lakeland, Florida

Leslie Palmer, Federal-State Director, Florida Department of Agriculture and
Consumer Services, Tallahassee, Florida

Adam Putnam, Congressman, Florida's 12th Congressional District, Washington, D.C.

Mike Stuart, President, Florida Fruit & Vegetable Association, Orlando, Florida

International Agricultural Trade and Policy Center Program Summary I

Program Title	Risk Management and Capital Markets - Enhancing the Competitiveness of Specialty Crop Agriculture
Summary Program Description	<p>The purpose of this program is to assess the impact of state, federal, and international policies on risk management strategies in Florida agriculture and specialty crop agriculture nationwide. Production agriculture is a sector uniquely affected by production risk outside the control of producers. Agricultural output is typically at the mercy of weather, even when production practices such as irrigation are available. This program examines the impacts of federal and state agricultural policy or programs designed to directly mitigate risk (such as crop insurance and price stabilization policies) and indirectly (such as policies regarding interest rates and capital markets).</p> <p>Traditional risk management instruments (such as crop insurance) have largely neglected specialty agriculture such as citrus, vegetables, and ornamental crops. Further, these specialty crops raise unique problems. For example, citrus crops have lengthy production cycles linked to tree growth.</p> <p>In addition to risk management instruments such as crop insurance, capital markets provide mechanisms for managing agricultural risk. Specifically, capital markets allow for the control of risk through diversification. However, these markets may also imply added risk for agriculture by competing directly with urbanization for farmland. Thus, variations in farmland markets may reduce the competitiveness of agriculture by raising the opportunity cost of farmland.</p>
Projects	<ul style="list-style-type: none"> • Assessment of the Potential for Specialty Crop Insurance. • Modeling Representative Farms for Specialty Crops. • FACTSim: A Futures and Options Market Simulator. • Risk Balancing Strategies for Florida Dairy Producers. • Crop Insurance and Trade: Applications to Horticultural Crops. • Capital Markets, Farmland Values and Agricultural Competitiveness.
Researchers	R. Weldon, J. Van Sickle, R. Kilmer, T. Spreen, A. Schmitz
Accomplishments To-Date	<ul style="list-style-type: none"> • Completed assessment of crop insurance for specialty crops. • An income support program was evaluated for processed oranges. • Initiated modeling of representative farms for specialty crops. • Developed FACTSim: A Futures and Options Market Simulator. • Analyzed risk balancing strategies for Florida dairy producers. • Examined various measures for valuing catastrophic loss in citrus industry. • Volatile closing basis is composed of “acceleration” and “mover” effects where mover effect always works to producer’s advantage, unlike acceleration
Implications to Agriculture	<ul style="list-style-type: none"> • The diverse nature of specialty crops and the Center Assessment highlight the need for additional tools to manage price and production risk. • The cost of an income support program for processed oranges would escalate from \$1.53 billion to \$4.72 billion if the tariff on imports is removed. • Experience in dairy and citrus demonstrate the need for: 1) alternative risk management strategies under various risk scenarios and; 2) programs to help producers become more knowledgeable about available tools. • The tariff on orange juice would be a lower cost alternative to maintaining competitiveness in the U.S. citrus industry. • Representative farms and tools like FACTSim are valuable tools to analyze risk management practices and policies affecting specialty crop growers. • Traditional measures used to value losses over- or underestimate true loss.

International Agricultural Trade and Policy Center Program Summary II

Program Title	Agricultural Labor and Specialty Crops
Summary Program Description	<p>The production of fresh fruits and vegetables, and nursery and greenhouse products is highly labor intensive. Fruits and vegetables require intense seasonal demands for labor, while the expanding nursery and greenhouse group offers more continuous employment. Jobs typically require few skills that are in high demand elsewhere in the economy, so compensation is relatively low. Consequently, agricultural employers compete for unskilled labor with industries such as construction and hotels and restaurants. A currently important segment of the unskilled labor market is unauthorized foreign workers who find agriculture and selected other industries attractive since personal interaction with the public is not a significant part of the job.</p> <p>One aspect this research addresses is how long different types of workers may continue working in agriculture, particularly if there are changes in immigrant or guest worker programs. This program also addresses factors such as new technology which could alter the demand for agricultural labor. Issues of worker compensation are of interest not only to the employer and the worker; the public has also expressed considerable interest in farm workers.</p> <p>Closely related to the farm labor market in Florida is the competitiveness of Florida's labor-intensive commodities with labor-intensive agricultural commodities from Latin American and Caribbean economies. The comparative labor costs and productivity are of direct importance in understanding what potential changes may be forthcoming in Florida's agricultural industry. This research provides useful information in addressing these difficult and important issues.</p>
Projects	<ul style="list-style-type: none"> • The demand for agricultural labor in Florida. • Farm worker attachment to agriculture and immigration status. • The role of incentive wage systems in specialty crop agriculture. • Economic effects of regional integration on Florida's agricultural competitiveness • Assessing agricultural labor risk in specialty crops • Homeland Security and Agricultural Labor
Researchers	R. D. Emerson, C. G. Davis, R. Kilmer, J. Seale, D. Cantliffe
Accomplishments To-Date	<ul style="list-style-type: none"> • Technological change in agriculture linked with immigration policy; Florida farm and non-farm labor market linkages documented Farm work time varies with legal status and region of the U.S. • Harvest productivity, and grove and worker characteristics linked. • Completed assessment of the disposition of specialty crop trade flows among the U.S. and six regional trading partners for 1991-2002. • Questionnaire development for employer and labor surveys.
Implications to Agriculture	<ul style="list-style-type: none"> • As international trade rises and immigration declines, labor concerns increase for agriculture. • Labor scarcity fosters technology development in specialty crops. • Growers can encourage more efficient labor markets by developing systematic relationships among workers, harvest conditions and piece rates. • Florida growers can profitably grow specialty vegetable crops in low-cost plastic greenhouses. • Extensive, unique data to examine labor demands and risk in Florida • U.S. has relatively high import level of specialty crops.

International Agricultural Trade and Policy Center Program Summary III

Program Title	Impacts of Selected Regulatory Policies on the Competitiveness of Florida Agriculture
Summary Program Description	<p>The purpose of this program is to evaluate the effects of selected health, safety and environmental agricultural regulatory policies on Florida and U.S. agriculture, and to determine their potential impacts on the competitiveness of livestock and specialty crops. Government regulations are pervasive and can have both positive and negative effects on society. Social regulations are one category of government regulations with concerns for health, safety and the environment. Economic welfare analysis provides a basis for assessing the net and distributional impacts among economic outcomes arising from such regulatory decisions. Models used can evaluate current as well as proposed measures, furnishing important information that policymakers can take into account in designing policies that realize their goals at the lowest cost to consumers, producers and the international trading system.</p>
Projects	<ul style="list-style-type: none"> • The Impact of the Methyl Bromide Phase-out on the U.S. Fresh Fruit and Vegetable Industry Potential Economic and Trade Impacts of Selected Invasive Pests and Diseases on Florida’s Ornamental Industry • Economics of Managing Invasive Species • New Markets for U.S. Citrus: Changes in Bilateral U.S.-Argentine Trade • An Economic Model for Evaluating the Impact of Prohibiting the Use of Pesticides in Grapefruit Production of Florida • Country of Origin Labeling (COOL): A Legal and Economic Analysis • Facilitation and Coordination of the Florida/Caribbean Basin Inter-Institutional Invasive Species Initiative
Researchers	J. VanSickle, E. Evans, T. Spreen, R. Kilmer, C. Davis
Accomplishments To-Date	<ul style="list-style-type: none"> • Assisted in the Methyl Bromide Critical Use Applications for Florida Specialty Crops. • Initiated Invasive Pests Research grant funded by the T-STAR program to develop economic based model for managing invasive pests. • Evaluated costs and benefits of the Country of Origin Labeling (COOL) legislation. • Analyzed the seasonality of Class I price differentials in southeastern dairy industry and obtained monthly estimates of Class I price differentials.
Implications to Agriculture	<ul style="list-style-type: none"> • Our work continues to show that the phase out of methyl bromide will have significant impacts on the vegetable industry. A Critical Use Exemption for the methyl bromide phase out would mitigate those impacts until more viable alternatives are developed. • Country of Origin Labeling holds large potential benefits to producers and consumers. Further research needs to delineate those benefits. • An economic assessment model for managing invasive species is critical to efficient policy. Modeling efforts will assist policy makers in this area. • Producers knowledge about foreign competition and opportunities is crucial for long-term viability. • Regulatory policies enacted by domestic and foreign governments have the potential to greatly impact the competitiveness and sustainability of specialty crop agriculture, implying a greater need for policy harmonization. • Seasonal price differentials are needed in the Southeast and would be more appropriate than non-seasonal price differentials.

International Agricultural Trade and Policy Center Program Summary IV

Program Title	Demand Systems and International Trade
Summary Program Description	<p>The U.S. is one of the world's leading importers and exporters of fruit, vegetable, and nut commodities in both fresh and processed form with U.s. exports exceeding imports. However, the surplus shrank from \$2.4 billion in 1995 to \$276 million in 2000. The GATT Agreement on Agriculture place limits on tariff increases and minimum access levels for imports; however, this has had a limited impact on U.S. fruit, vegetable and nut trade. Fresh vegetables are among the most heavily protected agricultural sectors for 26 per cent of the total number of tariff rate quotas (TRQs) by World Trade Organization (WTO) members.</p> <p>The overall objective of this program is to analyze international food consumption patterns and their effects on Florida specialty crops. Specific objectives include: (1) to describe the extent of specialty crop exports from Florida and U.S., (2) to describe the extent of specialty crop imports into the U.S., (3) to determine the effects of the WTO, FTAA and NAFTA on specialty crops, (4) to estimate cross-country demand for total food and disaggregated food groups particularly in the Western Hemisphere, and (5) to estimate import demand by the U.S. and the rest of the world for specialty crops.</p>
Projects	<ul style="list-style-type: none"> • Import Demand for Specialty Crops by Place of Production • The Impact of Trade Distorting Policies on Florida's Specialty Crops. • Global Food Demand and Implications for U.S. and Florida Trade. • A Differential Factor Demand Approach to Import Demand Analysis. • Regional Demand for Selected Fruits and Vegetables in U.S. Markets.
Researchers	A. Schmitz, E. Evans, R. Kilmer, J. Seale, J. VanSickle, D. Cantliffe
Accomplishments To-Date	<ul style="list-style-type: none"> • U.S. exports of dairy will increase in the future at a faster rate. • Flaws have been identified in models for judging trade disputes. • GMO trade was evaluated, identifying the critical nature of trade in GMO products • Demand models have been evaluated for assessing international trade in specialty crops. • Empirical measures estimated of the sensitivity of demand to changes in total imports, own-price, and cross-prices among exporting countries for four different cheeses in Japan. • Found empirical estimates of Hong Kong's derived demand for imported cheese from the U.S.
Implications to Agriculture	<ul style="list-style-type: none"> • GMO's are important in global trade. • It is critical for specialty crop producers to insure that trade distorting practices are not concealed in programs to manage trade in GMO's. • Appropriate demand models are critical to settlement of trade disputes. • Federal procedures for judging injury in trade disputes need to be modified since our work indicates judgments made in the tomato dispute with Canada may have been made on flawed assumptions. • Growing high quality colored pepper varieties in plastic greenhouses can greatly amplify product demand and return prices to Florida producers. • Derived demands for U.S. fresh, grated, and processed cheese products are perfectly inelastic, thus suggesting that competition in these segments be based on differences in product characteristics; derived demand for "other" cheese is elastic, and competition can be price driven.

International Agricultural Trade and Policy Center Program Summary V

Program Title	State and Local Government Policy and Agricultural Competitiveness: A Focus on Specialty Crops
Summary Program Description	<p>This research provides baseline information on the location, value, and economic impact of specialty crop production against which the impacts of potential policy changes can be evaluated. Further, this work will provide an assessment of production and/or market factors associated with specialty crops to provide a basis for evaluating the implications of state and local policies. A related effort will examine a range of state and local policies for the purpose of assessing their potential for impacting the competitiveness of specialty crops. This assessment will include land use planning and growth management activities, farmland protection programs, water management, and state tax policy. While the perspective will be national in scope, particular attention will be devoted to providing detail on crop production and public policies in Florida.</p>
Projects	<ul style="list-style-type: none"> • Specialty Crops: An Overview of Location and Production/Market Characteristics in Florida and the Southeast. • Economic Impact Analysis. Baseline Estimates of Specialty Crop Impacts in Florida and in Florida sub-regions. • An Assessment of State and Local Government Policies and Implications for Specialty Crop Production in Florida.
Researchers	David Mulkey and Thomas Spreen
Accomplishments To-Date	<ul style="list-style-type: none"> • Assessment of Regional Economic Impacts of Florida's Agricultural and Natural Resource Industries. • An Assessment of the Economic Impact of Florida's Vegetable Industry. • The Importance State and Local Policies on the Competitiveness of Specialty Crops Production. • County property values and tax impacts of Florida's citrus industry. • Updated IMPLAN software and databases fo Florida counties. • Surveyed Florida citrus growers and caretakers to assess the cost of compliance with respect to government regulation.
Implications	<ul style="list-style-type: none"> • Agriculture in Florida benefits as policy makers at the state and local level gain a more complete understanding of its economic contribution and better understand the impacts that state and local policies have on the industry. • Agriculture in Southwest Florida is growing in its contribution to the region and would benefit from increased support to regional extension and research programs. • IMPLAN capabilities can be used to answer impact questions on an 'as needed' and 'timely' basis • The impact of government regulation on production costs is potentially an important factor in establishing comparative advantage among competing producing regions.

FACULTY GRANTS

- A Differential Factor Demand Approach to Import Demand Analysis. National Research Initiative (NRI) Competitive Grants Program/CSREES/USDA, \$150,000. Kilmer.
- A Rapid, Simple, Inexpensive Reproducible Test for Hydrothermal Timing of Commercial Seed Priming. American Seed Research Foundation. 2001-2004. \$45,000. Cantliffe.
- An Economic Model For Evaluating The Impact Of Prohibiting The Use Of Pesticides In Grapefruit Production Of Florida. Southern Regional Pesticide Impact Assessment Program, \$43,498. Kilmer.
- An Integrated Approach for Reducing Pesticide Risks in Commercial Strawberry Production. Environmental Protection Agency. October 30, 2003 - October 30, 2005. \$34,166. Cantliffe (S. Rondon, PI).
- Assessing Agricultural Labor Risk in Specialty Crops. Risk Management Agency, USDA. Sept. 30, 2004 – Sept. 30, 2007. \$730,319. Emerson.
- Economics of Managing Invasive Species in the U.S.-Caribbean Basin. USDA/CSREES/TSTAR. Total funding approved in principle is \$705,000 for the period 2003-06. Of this amount, \$325,000 is budgeted to UF and \$80,000 to Puerto Rico. The remaining \$300,000 are budgeted to the University of Hawaii and the University of Guam. VanSickle, Evans.
- Enhanced Product Quality and Productivity of Vegetables through Sustainable Protected Agriculture Utilizing Reduced Pesticides. T-STAR - USDA. October 1, 2002-September 30, 2005. \$111,219. Cantliffe (with Lance Osborne).
- Estimating Import and Export Demand for Specialty Crops. USDA, Resource Division, October 2003-July 2004, \$22,500.00. Seale.
- Extending Postharvest Quality to Increase the Competitiveness of Exotic Tropical Fruits and Greenhouse Grown Vegetables in the Caribbean Region. T-STAR - USDA. October 1, 2004 - September 30, 2007. \$150,000. (Sargent, Huber, Cantliffe, Bartz and Crane).
- Galia Melon: A New High Quality Shipping Melon for Florida Producers. T-STAR - USDA. October 1, 2003-September 30, 2006. \$150,000. Cantliffe (with Harry Klee).
- Homeland Security and Agricultural Labor. CIBER/UF. October 1, 2004 – September 30, 2005. \$10,000. Emerson.
- Information Gathering and Analysis to Identify Options for Developing Risk Management Tools for Specialty Crop Producers in Florida. USDA Federal Crop Insurance Corporation. \$394,487, September/2002- November/2004. VanSickle, Weldon.
- Integrated Application of Beneficial Insects for Reduced Insecticide Use in Strawberry. USDA. 2001-2004. \$157,900. Cantliffe.
- Integrating Biological Control of Two Spotted Spider Mites into Pest Management Practices. North American Strawberry Growers Association. 2004-2005. \$2000. Cantliffe (S. Rondon, Co-PI).
- Integrating Biological Control of Twospotted Spider Mites into Pest Management Practices. N A Strawberry Growers Association. March 31, 2004 - December 15, 2004. \$2,000. Cantliffe (S. Rondon, PI).
- Integrating Pest Management Tools for a Sustainable Strawberry Crop in Florida. Southern IPM Center. July 1, 2004 - June 30, 2005. \$36,000. Cantliffe (S. Rondon, Co-PI).

Integration of Eretmocerus Species into a Biologically Based Pest Management System for Whitefly Control in Greenhouse Grown Vegetables. USDA - CREES. 2005-2008. \$149,846. Cantliffe (with Phil Stansly).

Measuring the Benefits to Country of Origin Labeling in the Fruit and Vegetable Industry. Florida Fruit and Vegetable Research and Education Foundation. \$10,000. Florida Tomato Exchange. \$8,000. VanSickle.

Multi-State Effort to Implement IPM Using Predatory Mites in Strawberries through On-farm Demonstration Trials. U.S. Environmental Protection Agency, Region 4. October 1, 2003 - September 30, 2005. \$110,000. Cantliffe (with O. Liburd and S. Rondon).

Potential Economic and Trade Impacts of Selected Invasive Pests and Diseases on Florida's Ornamental Industry. USDA/CSREES/Tropical and Subtropical Agricultural Research Program. 2002-04. \$80,000. VanSickle, Evans.

Risk Balancing Strategies for Florida Dairy Producers. USDA Cooperative State Research, Education and Extension Service (\$69,000) and the Florida Dairy Farmers (\$17,800). Kilmer.

Risk Management Education for Specialty Crop Growers. USDA Risk Management Agency. \$100,000. September/ 2002-March/2004. Weldon. VanSickle.

Structural Changes in Food Demand in Developing Countries and Its Implications for Trade and Global Food Security. U.S. Department of Agriculture, Economic Research Service, Markets and Trade Division. October 1, 2002 – September 30, 2006. \$98,000.00. Seale.

The Impact of the Methyl Bromide Phase Out on the U.S. Fresh Fruit and Vegetable Industries. Florida Fruit and Vegetable Association Research and Education Foundation. \$50,000. 2002-03. VanSickle.

Tomato Research Projects Support 2002-2003. Florida Tomato Committee. November 13, 2002 – November 12, 2004. \$25,000. VanSickle.

Tomato Research Projects Support 2003-2004. Florida Tomato Committee. October 31, 2003 – October 30, 2004. \$30,000. VanSickle.

Tomato Research Projects Support 2004-2005. Florida Tomato Committee. January 1, 2004 – September 30, 2005. \$30,000. VanSickle.

WEBSITE PUBLICATIONS

(ordered chronologically within each category as listed at
<http://www.fred.ifas.ufl.edu/iatpc/publication/>)

Policy Briefs

- VanSickle, J., & S. NaLampang. *The Impact of the Phase Out of Methyl Bromide on the U.S. Vegetable Industry*. Policy Brief Series, No. PBTC 02-01, IATPC, University of Florida, Gainesville, FL, April 2002, 22 pages.
- VanSickle, J. J. *Probable Economic Effects of the Reduction or Elimination of U.S. Tariffs on Selected U.S. Fresh Vegetables*. Policy Brief Series, No. PBTC 02-02, IATPC, University of Florida, Gainesville, FL, May 2002, 10 pages.
- Spreen, T. H., C. Brewster, & M. A. Brown. *The Impact of Elimination of the U.S. Orange Juice Tariff on the Market for Processed Orange Products*. Policy Brief Series, No. PBTC 02-03, IATPC, University of Florida, Gainesville, FL, May 2002, 38 pages.
- Jimenez, M., C. Salnars, & J. VanSickle. *International Imports and the Safety of the U.S. Food and Fiber System*. Policy Brief Series, No. PBTC 02-04, IATPC, University of Florida, Gainesville, FL, October 2002, 18 pages.
- Weldon, R. N., & J. J. VanSickle. *The Expected Cost of an Income Support Program for Processing Oranges*. Policy Brief Series, No. PBTC 02-05, IATPC, University of Florida, Gainesville, FL, October 2002, 18 pages.
- Brown, M. G., & T. H. Spreen. *The Impact of the Reduction in the Australian Orange-Juice Tariff*. Policy Brief Series, No. PBTC 02-06, IATPC, University of Florida, Gainesville, FL, December 2002, 18 pages.
- Mulkey, D., & H. Cothran. *State General Revenues and Expenditures in Florida*. Policy Brief Series, No. PBTC 02-07, IATPC, University of Florida, Gainesville, FL, 2002.
- Adams, D. C., & R. L. Kilmer. *European Union Farm Policy for Citrus, Tomatoes, and Dairy*. Policy Brief Series, No. PBTC 03-01, IATPC, University of Florida, Gainesville, FL, January 2003, 26 pages.
- Stevens, T., A. Hodges, & D. Mulkey. *Florida Agriculture and the Vegetable Industry*. Policy Brief Series, No. PBTC 03-02, IATPC, University of Florida, Gainesville, FL, February 2003, 28 pages.
- Hodges, A. W., & C. Adams. *Values Associated with the Apalachicola Bay Marine Economy*. Policy Brief Series, No. PBTC 03-03, IATPC, University of Florida, Gainesville, FL, March 2003, 6 pages.
- Evans, E. A. *Economic Dimensions of the Problem of Invasive Species*. Policy Brief Series, No. PBTC 03-04, IATPC, University of Florida, Gainesville, FL, April 2003, 13 pages.
- Blakeley, L., R. Weldon, & G. Fairchild. *Economic Analysis of Temika on Citrus in the Indian River Area in Southeastern Florida*. Policy Brief Series, No. PBTC 03-06, IATPC, University of Florida, Gainesville, FL, June 2003, 12 pages.
- Schmitz, A., T. G. Schmitz, & J. L. Seale, Jr. *Ethanol from Sugar: The Case of Hidden Sugar Subsidies in Brazil*. Policy Brief Series, No. PBTC 03-07, IATPC, University of Florida, Gainesville, FL, July 2003, 7 pages.

- Schmitz, A., J. L. Seale, Jr., & T. G. Schmitz. *Valuing Catastrophic Losses for Perennial Agricultural Crops*. Policy Brief Series, No. PBTC 03-08, IATPC, University of Florida, Gainesville, FL, August 2003, 12 pages.
- Schmitz, A., J. L. Seale, Jr., & T. G. Schmitz. *Sweetener-ethanol Complex in Brazil, the United States, and Mexico: Do Corn and Sugar Prices Matter?* Policy Brief Series, No. PBTC 03-09, IATPC, University of Florida, Gainesville, FL, August 2003, 11 pages.
- Weldon, R. N., A. A. Muhammed, & R. L. Kilmer. *Reducing Seasonality in Dairy Production*. Policy Brief Series, No. PBTC 03-10, IATPC, University of Florida, Gainesville, FL, September 2003, 12 pages.
- Kilmer, R. L., & T. J. Stevens, III. *Supply Chains May Deliver Safer Tomatoes and Strawberries*. Policy Brief Series, No. PBTC 03-11, IATPC, University of Florida, Gainesville, FL, September 2003, 5 pages.
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