



United States  
Department of  
Agriculture

Forest Service

Pacific  
Northwest  
Region

March 2006



# Forest Health Protection International Activities

## Accomplishment Report for Fiscal Year 2005

Prepared by the International Activities Team



IUFRO workshop for tropical tree diseases in nurseries, Kuala Lumpur, Malaysia

# FOREST HEALTH PROTECTION INTERNATIONAL ACTIVITIES FOR FISCAL YEAR 2005

## Summary

This report is a consolidation of all the Forest Health Protection (FHP) international activities in FY 2005. Funding for these activities comes from a variety of sources including FHP staff units and FHP International Activity Team (IAT) funds, USDA Forest Service International Programs (IP), USDA Animal and Plant Health Inspection Service (APHIS), US Agency for International Development (USAID), United Nations Food and Agriculture Organization (UN/FAO), and support from hosting countries.

During FY 2005, FHP specialists were involved in approximately 46 activities with 15 countries or geographic regions. These activities included: providing technical assistance and training, cooperating in projects, pest risk assessments, giving presentations, and participating in international meetings.

There are four FHP International Activity Goals list in the 2004-2005 Program of Work. These goals are:

- Goal 1.** U.S. Forests are protected from exotic pests.
- Goal 2.** North American countries have strong forest pest management programs.
- Goal 3.** Biological control options are in place to protect U.S. forests from exotic pests.
- Goal 4.** Forest health technology and expertise are shared worldwide.

Emphasis Areas (*EA's*) that address these goals for 2005 were:

1. Continue to coordinate with, develop relationships, and provide assistance to forest pest managers in Mexico, especially in areas of common interest that will strengthen our mutual forest health protection programs;
2. In conjunction with IP, continue to develop relations and cooperation in the Asian/Pacific Rim countries;
3. Facilitate sharing FHP technologies with other countries, and
4. Continue to emphasize professional development and expertise for Forest Health Protection staff in the international arena.

Activities which directly relate to a particular EA are identified in the attached Table by the description of the activity (*EAI* , *EA2*, etc.).

EA 1, cooperation and assistance with Mexico, addresses Goals 2 (North American countries have strong pest management programs), and 4 (technical expertise is shared worldwide). The primary activities with Mexico this year included continued collaborative work between Comision Nacional Forestal (CONAFOR) and FHP on bark beetle impacts on pinyon pine ecosystems, cooperation and assistance on assessing pheromone preference and developing

recommendations on pine management for *Pseudips mexicanus* and other species in southern Jalisco, and assistance in identification of dwarf mistletoes and other forest pathogens.

Activities in the Asian /Pacific Rim countries (EA 2) included numerous projects in cooperation with China. FHP provided support and funding for equipment and staffing in the Biological Control Laboratory in Beijing, where an accelerated search for natural enemies of hemlock woolly adelgid in China is being conducted. Two FHP entomologists serve on a team of participants providing input into a book on Chinese Forest Insects. Cooperation on other publications includes a publication of “Invasive Plants of Asian Origin Established in the U.S and Their Natural Enemies Vol. 2”, cooperation on the “Forest Diseases of China” book, and cooperation and publication of “Parasites and Predators of Forest Pests in China”. In addition, cooperative projects are being done on biological control of mile-a-minute weed and control of emerald ash borer.

The primary activity in other Asian countries was the participation by two FHP pathologists in conducting an IUFRO (International Union of Forest Research Organizations) sponsored training session in Kuala Lumpur, Malaysia on Diseases of Tropical Forest Trees. Sixteen participants from six countries – Indonesia, Laos, Malaysia, the Philippines, Thailand, Vietnam, and China – attended the training.

FHP and APHIS also continued to coordinate with Japan in identifying and trapping Japanese ports for Gypsy Moth.

FHP also continued support of the Asian Pacific Forest Invasive Species Network (APFISN), participated in the Asia/Pacific Forestry Council, and coordinated with International Programs and the Regional Office of UN/FAO to establish an invasive species coordinator position in Asia.

FHP is now involved in support, development, and participation of three international invasive species organizations and networks – the Insect and disease Working Group of the North American Forestry Commission, the Asian Pacific Forest Invasive Species Network, and the Forest Invasive Species Network of Africa.

The attached table summarizes the primary FHP international activities in FY 2005 by geographic region and country. Source of funding and participation are listed in order to show the cooperation and participation that goes to support FHP international activities.

Additional information can be obtained either through the IAT or the regional FHP international activity coordinators.

**IAT** – Dayle Bennett, Kerry Britton, Iral Ragenovich, Noel Schneeberger, Denny Ward

**Regional FHP Coordinators**

WO and FHTET – Kerry Britton

R1 and R4 – Dayle Bennett

R2 – Tom Eager

R3 – Debra Allen-Reid

R5 – Laura Merrill

R6 – Iral Ragenovich

R8 – Denny Ward

R10 – Cynthia Snyder

NA – Noel Schneeberger

## FY 2005 FHP International Activities

COUNTRY	ACTIVITIES	TECHNICAL SPECIALISTS	SOURCE OF FUNDING
<b>AFRICA</b>			
Africa (general)	<p>Participated in helping coordinate and fund the UNFAO Forest Invasive Species Network of Africa and help get website for the network on – line</p> <p>Provide assistance to UN/FAO for 2 forest pest management specialists to attend African Forest Pest Management Network meeting in Malawi (Dec. 2004)</p> <p>Provide assistance and funding support of workshop/training for Forest Invasive Species Network of Africa executive core team workshop.</p> <p>Attend workshop (Boise) on Desert Locust Suppression in West Africa and be available for deployment to West Africa (June and November, 2005)</p> <p>Serve as point person for Forest Invasive Species Network of Africa</p>	<p>Hertel (WCU) (retired FHP)</p> <p>Mangold (WO)</p> <p>Mangold (WO)</p> <p>Ward (R8) Allen-Reid (R3)</p> <p>Sapio (FHTET)</p>	<p>FHP</p> <p>FHP</p> <p>FHP</p> <p>FHP, USAID/ OFDA</p> <p>FHP</p>
Kenya	<p>At request of Foreign Agricultural Service conduct an evaluation of borers in mangrove on the Kenyan coast.</p> <p>Meet with the Kenya Forest Dept. to explore opportunities for cooperation</p> <p>Provide assistance in the initiating establishment of a new website for the Bio-technology Center for the Kenya Forest Department</p>	<p>Ward (R8) Dull (WO)</p> <p>Ward (R8)</p> <p>Ward (R8)</p>	<p>IAT FAS</p> <p>IAT, FHP</p> <p>FHP</p>

<b>ASIA AND SOUTH PACIFIC</b>			
Asia (general)	<p>Coordinate with and provide funding to UN/FAO to establish a position to coordinate invasive species activities in Asia and Pacific Rim countries. <b>EA 2</b></p> <p>Participate in and help establish an Asia/Pacific Rim invasive species network <b>EA 2</b></p> <p>Support workshop on Coconut palm shoot borer and biological control options in SE Asia (Thailand, Vietnam, India, etc.)which has potential for invasion to Hawaii <b>EA 2</b></p> <p>Serve as resource persons and contact , and put on training for IUFRO – Diseases of Tropical Forests work shop focused on capacity building, Malaysia - April, 2005 <b>EA 2, EA 3, EA 4</b></p> <p>Conduct <i>Phytophthora ramorum</i> source collections in Malaysia <b>EA 2, EA 3, EA 4</b></p>	<p>Mangold (WO) Man (IP)</p> <p>Mangold (WO) Man (IP)</p> <p>Mangold (WO) Man (IP)</p> <p>Kliejunas (R5) Ash (NA)</p> <p>Kliejunas (R5) Ash (NA)</p>	<p>FHP</p> <p>FHP IP</p> <p>FHP</p> <p>IAT, FHP</p> <p>IAT, FHP</p>
Australia	<p>Present a series of seminars on Urban Tree Risk Management in major Australian cities (Brisbane, Sydney and Melbourne) April <b>EA 2, EA 3,</b></p> <p>Continue work on Pest Risk Assessment on Radiata Pine from Australia <b>EA 2</b></p>	<p>Pokorny (NA)</p> <p>DeNitto &amp; Pest Risk Assessment Team</p>	<p>Tree Logic Pty, Ltd. FHP</p> <p>FHP, APHIS</p>
New Zealand	Participated in briefing by the Ministry of Agriculture and Forestry on the forest pest management program in New Zealand	Ward (R8)	FHP

China	<p>Host Chinese visitor and IP Gary Man at Sudden Oak Death (SOD) meeting and SOD tour up the coast <i>EA 2</i></p> <p>Coordinate with Chinese on SOD in visit to China (August) <i>EA 2</i></p> <p>Monitor FHTET international coop projects in China (Apr- Jun) <i>EA2, EA3</i>,</p> <ul style="list-style-type: none"> <li>• Host range testing for selective pathogenic fungi of mile-a-minute weed</li> <li>• Biological control of Tree of heaven using pathogenic fungi and weevils</li> <li>• Biological control of Kudzu using an imitation rust</li> <li>• Cooperate on publication of “Invasive Plants of Asian Origin established in the U.S and their natural enemies vol. 2”</li> <li>• Continue cooperation on “Forest Diseases of China” book</li> <li>• Continue cooperation and publication of “Parasites and Predators of Forest Pests in China”</li> <li>• Continue cooperation on Emerald Ash borer life history and biological control studies</li> </ul> <p>Host Chinese visitors to enhance cooperation in biological control and other projects <i>EA 2</i></p> <p>Provide funding for equipping and staffing a Biological Control Lab in Beijing. Initial efforts are accelerated search for natural enemies of hemlock woolly adelgid. <i>EA2</i></p> <p>Participate in development of book on Forest Insects of China, provide input, review drafts, etc. <i>EA 2, EA 4</i></p> <p>Conduct collaboration visit to China</p>	<p>E. Goheen (R6)</p> <p>E. Goheen (R6) E. Hansen (OSU)</p> <p>Yun Wu (FHTET) Reardon (FHTET)</p> <p>Yun Wu (FHTET)</p> <p>Reardon(FHTET) Mangold(WO)</p> <p>Clarke (R8) Bohne (R5)</p> <p>Mangold (WO)</p>	<p>FHP</p> <p>FHP OSU</p> <p>FHTET, IAT</p> <p>FHTET FHP</p> <p>FHTET, IAT</p> <p>FHP</p> <p>FHP</p>
-------	---	---	--

People of Taiwan	Serve as consultants on forest health and coordination with People of Taiwan (August) <i>EA 2</i>	Man (IP) Beatty (FHP)	IP, FHP
Japan	Continue to coordinate with Japanese to initiate port trapping in selected ports for Asian gypsy moth. Meet with Ministry of Agric, Forestry and Fisheries to discuss 05 program of work (May) –15 ports to be monitored in 2005 <i>EA 2</i>	Munson (R4) Leonard (R8) Fussell, Mastro (APHIS)	FHP, APHIS
Pacific Islands	Attend Pacific Islands Forestry Commission Committee meeting in Kosrae (Feb) <i>EA 2, EA 3</i>	LaRosa (R5)	FHP
<b>NORTH AMERICA</b>			
Canada	Attend Alberta/British Columbia Forest Health Workshop, Lake Louise (April)	Lockman (R1)	FHP
	Attend Mountain Pine Beetle Review, British Columbia (July)	Gibson (R1)	FHP
	Coordinate with Canada on Whitebark Pine Blister Rust program, and include in development of whitebark pine conservation strategies	Schwandt (R1)	FHP
	Coordinate with B.C. Forest Service surveying for cedar decline on Prince Rupert, B.C. (September) <i>EA 3</i>	Hennon (R10)	FHP
	Continue cooperative agreement with Canadian Forest Service for maintaining the Douglas-fir tussock moth Goose Lake Colony	Reardon (FHTET) Ragenovich (R6)	FHTET, FHP
	Attend “Forest Pest Forum” in Ontario (equivalent of USDA Forum on Gypsy Moth and other exotic pests)	Samman (WO)	FHP
	Continue publication of cooperative work on <i>Tomentosa</i> and interactions with spruce beetle	Trummer (R10)	FHP

	Attend IUFRO meeting for Scolytids and Insect Population Dynamics in Prince George (July) – present 2-3 posters <b>EA 3</b>	Clarke, Nowak (R8)	FHP, IAT
	Coordinate with Canadian Forest Service and Canadian graduate student on the biological control of amber-marked birch leaf-miner in Alaska <b>EA 3</b>	Snyder, Shephard, Kruse (R10)	FHP
Mexico	Wrap up Ips project with CONAFOR in Guadalajara <b>EA 1, EA 3</b>	Steed (R4)	IAT, FHP
	Monitor pinyon mortality in Mexico caused by drought and Ips beetles; an extension of previous years tech assistance to Mexico <b>EA 1, EA 3</b>	McMillin (R3) Eager (R2) Smith (R5)	FHP-FHM
	Assist Mexican specialists in identification of dwarf mistletoes and other forest pathogens (mid-July) <b>EA 1, EA 3</b>	Howell (R2)	IAT, FHP
	Cooperate and provide assistance to CONAFOR on assessing pheromone preference and developing recommendations on pine management for <i>Pseudips mexicanus</i> and other species in southern Jalisco (August) <b>EA 1, EA 3</b>	Steed (R4) Willhite (R6)	IAT, FHP
<b>CENTRAL AMERICA</b>			
Nicaragua	Assist in developing a forest health protection demonstration project for the municipality of San Fernando in conjunction with the University Nacional Agraria and INAFOR, with focus to monitor and reduce future risk of bark beetles. Provide technical assistance throughout the year. <b>EA 3</b>	Ward (R8)	Nicaraguan government, FHP
	Provide assistance to the Nicaraguan Forest Dept to develop a risk mgmt system for southern pine beetle with emphasis on erosion in watersheds	Ward (R8)	Nicaraguan government, FHP

<b>SOUTH AMERICA</b>			
Brazil	Evaluate opportunities for establishing a eastern Hemlock plantation to preserve hemlock genotype from hemlock woolly adelgid  Coordinate activities for <i>Sirex nottilleo</i> trap and lure study in conjunction with Early Detection/Rapid Reponse	Rhea (R8)  Duerr (R8) Mastro (APHIS) UP and UC	FHP  FHP APHIS FHTET
<b>EUROPE</b>			
Czechoslovakia	IUFRO meeting on Diseases and Insects of Forest Nurseries to give presentation – invited lead in speaker to ½ day workshop and present poster (Sept) <i>EA 3, EA 4</i>	James (R1) Cram (R8)	FHP, IAT
United Kingdom	Establish connections with CAB International and scientists for collaboration on EXFOR website, identify cooperators for posting information, and gain additional information on <i>P. alni</i> , <i>I. typographus</i> , and <i>S. noctilleo</i> and meet with folks who might have point data for these insects for use in risk maps. (April) <i>EA 3</i>	Downing (FHTET)	FHTET
Russia	Continue cooperation with Russia Port Trapping for Asian, gypsy moth, Nun moth – renew agreement and continue monitoring in 9 ports  Meet with Yuri Baranchikov (Sukachev Institute) to discuss potential cooperative projects with APHIS and FHP (Jan and May); visit Tree Resistance testing center at Dorena	Munson (R4) Leonard (R8) Mastro (APHIS) Fussell (APHIS)  Ragenovich (R6) Mastro (APHIS) Filip (R6)	FHP, APHIS  FHP, APHIS
<b>GENERAL</b>			
General	Attend NAPPO Plants for Planting Panel working on nursery pathology (Oct, 2004)  Attend NAPPO Forestry Panel in Mexico City (April) <i>EA 1</i>	Hofacker (WO) Britton (WO)  Britton (WO)	FHP  FHP

	Attend IFQRG (International Forestry Quarantine Research Group) meeting in Vancouver to continue to work on international standard for Solid Wood Products and nursery regulations for all countries (Feb, 2005)	Britton (WO) Hofacker (WO)	FHP
	Attend Western Forest Insect Work Conference in Victoria, BC – Mar – Apr, 2005	Various regions	FHP
	Western International Forest Disease Work Conference	Various Regions	FHP
	Attend North American Forestry Commission meeting in Santa Fe, New Mexico - attended by U.S., Canadian, and Mexican representatives <i>EA I</i>	Mangold (WO)	FHP
	Attend UN/FAO Invasive Species Networking meeting in Rome (March)	Mangold (WO)	FHP
	Serve a U.S. delegate on United Nations Forum on Forests	Samman (WO)	FHP