

Administrative Report
UC/AID Project in Pest Management
and Related Environmental Protection
Contract AID/ta-C-1195

July 1 - December 31, 1979

Following is a brief resume of Project international activities during the period July 1 - December 31, 1979. A detailed report of each activity has been forwarded to the Project Manager at AID/W and is on file at the UC/AID Project headquarters at the University of California, Berkeley.

Training Activities

In July-August an International Short Course on Host Resistance was jointly sponsored by the UC/AID Project and Texas A&M University. During its first phase it dealt with principles and techniques for breeding cotton, sorghum, rice, corn, peanuts, forage grasses and certain grain legumes resistant to arthropod and disease pests, in the form of lectures, laboratory exercises and field demonstrations in Texas. The second phase provided for participation of the trainees in the IX International Congress of Plant Protection, Washington, D. C. The combination of these two phases provided the participants with exposure to the modern multidisciplinary approach to plant protection. The participants represented Venezuela, El Salvador, The Philippines, India, Kenya, Korea, Senegal, Egypt, Zambia, Republic of China, Zaire, Honduras and Indonesia, and the UC/AID Project also provided for lecturers from India, The Philippines and Nigeria.

In August and September, 1979, a four-week Short Course on Integrated Pest Control for Small Farmer Cropping Systems, was held in Turrialba, Costa Rica. This course was sponsored by the UC/AID Project in cooperation with Centro Agronómico Tropical de Investigación y Enseñanza (CATIE) and the Organismo Internacional Regional de Sanidad Agropecuaria (OIRSA), and covered a wide range of topics, including principles, tactics and economics of integrated pest control, information sources and retrieval, agroecosystem concepts and pest management, management analyses of major pests in small farmer cropping systems, information transfer to farmers, and country-by-country analysis of pest management problems and planning. The course was offered in Spanish to 25 participants from Guatemala, Honduras, El Salvador, Nicaragua, Dominican Republic, Panama, Haiti, and Costa Rica. The UC/AID Project paid transportation and fees for all participants, plus per diem, transportation and fees for 10 lecturers and administrators. A very positive response to this course was reflected in the reports discussing future plans of work in the respective countries represented.

In November, 1979, a meeting was held concurrently with the XXII Convención Nacional de Entomología of the Peruvian Entomological Society, in Huancayo, Peru, to review the activities of the participants since their attendance at the 1978 five-week Short Course on General Principles of Integrated Control of Pests and Diseases, with Emphasis on Maize and Soybeans, held in La Molina, Peru. The main purpose was to learn to what extent the participants in the course had been able to incorporate or implement the integrated control philosophy in their home country research, teaching and extension programs. Invitations had been extended to the 50 or more individuals who had been officially registered in the 1978 course, and 28 persons accepted the invitation. Their travel and per diem expenses were paid by the UC/AID Project. This meeting was considered a milestone in methods of evaluating the short courses being sponsored by the UC/AID Project, and the open discussions and

written responses to a questionnaire provided clear evidence of the value and impact of the 1978 short course, as well as development of new ideas for future courses.

Special Technical Studies

In July, Dr. George Schaefers, Professor of Entomology at the New York State Agricultural Experiment Station, Geneva, at the request of the USAID Mission in Panama, returned to Panama in connection with an Environmental Assessment on the use of pesticides in an AID-supported research project at the Instituto de Investigación Agropecuaria de Panama.

Later in this period, Dr. Schaefers completed another assignment for the UC/AID Project. At the request of the USAID Mission in Guatemala, he was asked to consult with the Mission and the Government of Guatemala concerning the need for an Environmental Assessment in connection with the use of pesticides in a small farmer diversification assistance project, and to assist in the preparation of such an assessment, if necessary.

In August, 1979, the USAID Mission in Bolivia requested the services of a specialist to consult with the Mission and the Government of Bolivia concerning the review of the Bolivia Title III Program, Plant Quarantine and Pesticide Control. Dr. Leo Caltagirone, Professor of Entomology at the University of California, Berkeley, accepted this assignment and while in Bolivia he reviewed plant quarantine facility plans and advised on current AID regulations regarding the use of particular pesticides. An Environmental Assessment was prepared.

In September, 1979, the USAID Mission in Kathmandu, Nepal, requested assistance in the review of Government of Nepal pesticide recommendations and practices, particularly in connection with the use of BHC in maize mini-kits distributed for farmer field trials of new recommended varieties. Dr. George L. Teetes, Associate Professor of Entomology at Texas A&M University responded to this request. An Initial Environmental Examination and Risk/Benefit Analysis and Recommended Threshold Decision resulted from this assignment.

At the request of AID/W, Dr. Dale G. Bottrell, UC/AID Project Specialist, completed a two-month trip to Africa, during which he visited USAID Missions in Kenya, Ivory Coast, Liberia, Guinea and Niger to review pesticide management problems. An Environmental Assessment of pesticide use in the Nimba Rural Technology Project, Nimba County, Liberia, was prepared. This trip was especially important in providing opportunities for continuing as well as new contacts with African specialists in pest management. Also, part of this trip, Dr. Bottrell presented an invitational talk on the "Concepts of Integrated Management of Crop Pests with Special Reference to Rice," at the opening session of the West Africa Rice Development Association (WARDA) Seminar on Integrated Management of Rice Diseases and Insect Pests at Bobo Dioulasso, Upper Volta, and he participated in all aspects of the seminar.

In November, 1979, at the request of USAID/Jakarta, and the Government of Indonesia, a team of three travelled to Indonesia to discuss possible activities of the UC/AID Project, or its successor project, in the broad area of plant protection and environmental protection. This team consisted of Dr. Ray F. Smith, Project Director, Dr. Milton N. Schroth, Professor of Plant

Pathology, University of California, Berkeley, and Dr. Wendell W. Kilgore, Professor of Environmental Toxicology and Community Health, University of California, Davis. These activities included preliminary planning for a short course in pest management for 1981, for short workshops on pesticide management early in 1981, and for a research/demonstration project on biological control of the brown planthopper, for 1980. This team also prepared a major revision of the PID for a new project on Pest Management/Food Crops for Indonesia.

Project Representation at International Meetings and Conferences

In December, Dr. Ray F. Smith, Project Director, travelled to Wad Medani, The Sudan, to attend the Ninth Session of FAO/UNEP Panel of Experts on Integrated Pest Control, of which he is Chairman. While in The Sudan, he observed the pest outbreaks on cotton which had reached the crisis stage, and en route home, two days of consultation were held in Rome with FAO Plant Protection staff. Contacts were made in The Sudan with about 38 government and research specialists involved in pest management activities in the area.

In August, several UC/AID Project personnel attended the IX International Congress of Plant Protection, Washington, D. C. Dr. Ray F. Smith, Project Director, was a member of the Policy Committee for this important international congress, whose subject was "Protecting the World's Food Supply through Integrated Pest Control." Scientists from 57 countries were represented with over 900 scientific papers presented.

Dr. Seymour D. Van Gundy, Chairman of the Department of Nematology at the University of California, Riverside, represented the UC/AID Project at the Conference on Nematode Problems in Modern Crop Production, held in Paris, France, in September, 1979. He presented a talk on "Nematology Situation in the United States and Priority Areas in Research," an important area of interest to the UC/AID Project.

In October, 1979, Dr. Ray Smith, Project Director, and Dr. Robert F. Luck, Entomologist at the University of California, Riverside, represented the Project at the International Symposium on "Integrated Control in Agriculture and Forestry" sponsored by the International Organization for Biological Control of Noxious Animals and Plants. At this symposium emphasis was placed on the fundamentals of integration relating to the various branches of agricultural production, and discussions of integrated plant protection measures that are being used in practice for various crops.

Quality Control Program

This program, conducted by Mr. J. Bruce Mann under a subcontract with the University of Miami Medical School, continued to be an effective part of the UC/AID Project activities. Close contact with the 48 laboratories representing 21 countries was maintained with continuing assistance being provided from Miami in overcoming difficulties in analyses of samples. Training in pesticide residue analysis continued to be offered at the University of Miami and in individual laboratories. It is anticipated that this program will be broadened in 1980 and 1981.

Publications

Pest Management News. Vol. 3 No. 4 (September 1979). Newsletter supported and issued periodically by the UC/AID Project, Berkeley, California.

International Conferences Related to Pest Management. Prepared and issued quarterly by UC/AID Project. Two issues: July and September 1979.

Financial Summary
 Contract AID/ta-C-1195
July 1 - December 31, 1979

	<u>Actual Expenditures</u>		<u>Total</u>
	<u>7/1/79-9/30/79</u>	<u>10/1/79-12/31/79</u>	<u>7/1/79-12/31/79</u>
Personnel	\$ 38,371.90	\$ 36,650.26	\$ 75,022.16
Consultants	18,597.00	6,393.00	24,990.00
Employee Benefits	7,433.97	8,917.39	16,351.36
Transportation and Per Diem	60,137.52	23,188.28	83,325.81
Overhead (26.6%)	38,070.27	30,376.71	68,446.98
Equipment	965.00	225.00	1,190.00
Other Direct Costs	18,580.94	39,049.26	57,630.20
Subcontract *	<u>105,600.00</u>	<u>-</u>	<u>105,600.00</u>
Total	<u>\$287,756.60</u>	<u>\$144,799.91</u>	<u>\$432,556.56</u>

NOTE: These figures reflect the monthly records kept in the Project Office and are more current than those in the University of California Accounting Office due to time lag in accounting procedures.

* Not included in overhead computations