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WEED CONTROL SYSTEMS FOR REPRESENTATIVE FARMS IN DEVELOPING COUNTRIES

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Coordinated by the International Plant Protection Center

SEMI-ANNUAL REPORT

APRIL 1, 1975 THROUGH SEPTEMBER 30, 1975 REPORT 16-C-75

SECTION A - ADMINISTRATIVE REPORT

SECTION B - BUDGETARY REPORT

SECTION A - ADMINISTRATIVE REPORT

AID, CIAT, AND OSU PRESENT WEED CONTROL SHORT COURSE

An intensive 4-week weed control short course sponsored by AID and held at CIAT (Centro Internacional de Agricultura Tropical), Cali, Colombia, in collaboration with IPPC (International Plant Protection Center) at Oregon State University, was presented to 31 weed researchers from 12 Latin American nations during June-July 1975.

A joint CIAT/IPPC team of instructors delivered information, all in Spanish, covering subject matter ranging from basic definitions to sophisticated research technology. A variety of activities included classroom lectures and group discussions (71%), field trips (13%), plus laboratory exercises and actual plot work (16%).

Fifteen participants attending the course represented governmental experiment stations, with seven from educational institutions and nine from private industry or other. Twenty were provided full financial support by AID and 11 were self-supporting. All held an Ing. Agr. degree or higher and had experience in agricultural research.

Two 2-hour written examinations were given participants; the first day of the course, and again at the end of the course. The second exam contained material 75 percent identical to the first

with the addition of some new material. There was a 25 percent overall improvement in the group's test scores with one individual improving from 2 points to 70. A before-and-after laboratory practical exam was also given resulting in a 37 percent average overall improvement.

Participants completed a course evaluation form and rated 82 percent of the activities 80 or higher on a 0-poor, 100-excellent scale. Nearly 90 percent of the participants stated that a similar course should be offered at least every other year, if not yearly. Participating CIAT and IPPC staff also expressed strong interest in conducting similar courses in the future.

The course culminated in an awards banquet held at CIAT. Group and individual prizes were awarded and a chrome-bladed mini-machete presented to each participant. Further details are contained in, Terminal Report, Weed Control Short Course, Report 15-C-75, available from IPPC.

AID NAMES NEW OSU PROJECT MONITOR

During the reporting period, AID selected Dr. Edward J. Rice, a research agronomist with broad international experience, as coordinator for the AID-Oregon State University weed research program. Dr. Rice succeeds Channing J. Fredrickson who was named to lead the newly instituted AID Sahel food crop protection program.

In addition to working on AID multiple cropping programs in Southeast Asia most recently, Dr. Rice also served as a research agronomist in Turkey and Afghanistan. Earlier he worked with industry in weed control research and development.

CENTRAL AMERICAN WEED REFERENCE PUBLISHED

Malezas Prevalentes de America Central / Prevalent Weeds of Central America, an identification manual with detailed descriptions and full color plates for 277 economically important weed species, was published by IPPC. The bilingual publication is believed to be the largest single collection of specific taxonomic data for weeds of the Central American region.

Despite production problems and a lower quality of printing than hoped for, the end product has met with generally positive reception and little criticism. An initial massive distribution was carried out and individual requests are now being filled as received.

PROJECT STAFF IN BRAZIL PRESENT SEMINARS

AID/OSU project leader Myron D. Shenk, at the invitation of EMBRAPA (The Brazilian Organization for Agricultural Research), presented a

seminar to governmental officials covering the agronomic and economic research carried out by the project team and its counterparts. The session, held at Brazilia in June, was utilized to deliver data and information developed to date.

The AID/OSU team continued their evaluation of the socio-economic survey of farmers in the Caruaru region of Northeastern Brazil. Among other things, the importance farmers attached to weeds was indicated. Out of 13 possible problems they faced, farmers rated weeds as second overall (insects were first). The individuals queried farmed land ranging from less than 1 hectare to over 100. Project economist Douglas Young directed the effort and noted that, despite field appearances, small farmers did evidence concern about weeds and their negative influence on crop production.

The five counterparts that have worked with the AID/OSU weed project in Brazil are studying for advanced degrees currently at both Brazilian and international institutions. The first graduate (MS) is expected to rejoin his parent organization in early 1976.

ECONOMIC FOLLOW UP UNDER WAY AT CORVALLIS

Based on data collected from field and survey research carried out in Brazil, project economists Dr. S. F. Miller and Douglas Young are constructing representative farm models to evaluate the efficiency and distributional effects of changes in weed control technology in the Northeastern Brazil Agreste setting. The effects of alternative social goals will be evaluated from the models using computers.

A trip to El Salvador by project economists is planned to collect needed information concerning weed control practices and farm family labor input. The data will be used to conceptualize a Salvadorian model for weed control technology evaluation.

PROPOSAL

A proposal for continuation of the project for an additional three years has been prepared and submitted to AID/TAB. In addition to work in Latin America, Southeast Asia has been identified as a geographical zone in which IPPC personnel will be stationed. The proposal is broken into two parts--research and general technical assistance, each with a separate budget.

PUBLICATIONS ACTIVITY DURING THE PERIOD

Three issues of INFOLETTER were published and distributed to a mailing list of nearly 3,800 recipients. AAACE (The American

Association of Agricultural College Editors) announced that INFOLETTER had been awarded one of seven first place ribbons, among 29 entries, in the direct mail category of annual nationwide competition. It was the only blue ribbon awarded to Oregon in any category this year.

IPPC Papers, a series of papers, reprints, and adaptations offered free by IPPC, added two listings during the reporting period: Calibrating and adjusting granular row crop applicators; and, Statement on 2,4,5-T and TCDD. Requests for various of the 15 titles available are received and serviced daily. A total of 578 copies was distributed through September 15, 1975. As of the same date, 171 copies of Selected Publications and Periodicals to Assist in Supplementing, Expanding or Establishing a Weed Science Library had been distributed.

PROJECT STAFF TRAVEL NOTED

The project director, staff agronomist, and information specialist attended various portions of the AID/CIAT/IPPC weed short course at Cali, Colombia. The director also traveled to El Salvador and Brazil. The project research technician spent six weeks in Brazil assisting in field plot research work.

At the request of FAO, the project director attended the Conference on Pesticide Use in Rome. He visited the Weed Research Organization, Oxford, England, on the return to Corvallis.

PROJECT PERSONNEL

A list of AID/OSU staff members for the period covered by this report is as follows:

Stanley F. Miller, director - Corvallis
Allan Deutsch, information services/administration - Corvallis
Larry C. Burrill, research agronomist - Corvallis
Georgena S. Knapp, fiscal affairs/translation - Corvallis
Arnold Appleby, research agronomist - Corvallis (20%)
Myron D. Shenk, research agronomist - Recife, Brazil
Herbert H. Fisher, research agronomist - Recife, Brazil
Douglas L. Young, agricultural economist - Recife, Brazil and Corvallis
Richard L. Chase, research agonromist - San Andres, El Salvador
Frank G. Fraser, experimental biology technician - Corvallis
Myrna Wade, secretary - Corvallis
Dolores Casanova, secretary - El Salvador
Tracy Colby, secretary - Corvallis (terminated 8/31/75)
Sharon Hines, secretary - Corvallis (appointed 8/25/75)

	Total Budget 3/1/73 to 10/31/75	Actual Expenditures 3/1/73 to 3/31/75 (25 mos.)	Budget Available for Period 4/1/75 to 10/31/75 (7 mos.)	Paid and Obligated 4/1/75 to 9/30/75	Balance
Salaries and Wages					
On-campus	253,135	184,979.47	68,155.53	51,307.49	16,848.04
Off-campus	142,691	101,168.21	41,522.79	32,506.45	9,016.34
Total	395,826	286,147.68	109,678.32	83,813.94	25,864.38
Payroll Assessments	53,876	38,034.23	15,841.77	12,751.28	3,090.49
Indirect Costs					
On-campus	118,440	87,735.74	30,704.26	23,710.55	6,993.71
Off-campus	45,080	32,495.24	12,584.76	10,589.42	1,995.34
Total	163,520	120,230.98	43,289.02	34,299.97	8,989.05
Consultants	14,100	9,493.87	4,606.13	3,000.00	1,606.13
Travel, Transportation and Allowances	267,432	124,207.26	143,224.74	49,764.85	93,459.89
Other Direct Costs	17,923	13,333.15	4,589.85	4,933.06	- 343.21
Equipment, Vehicles, Materials and Supplies	62,688	36,939.33	25,748.67	12,259.91	13,488.76
Total	975,365	628,386.50	346,978.50	200,823.01	146,155.49