

ANNUAL REPORT OF COOPERATIVE REGIONAL  
RESEARCH PROJECTS  
January 1 to December 31,  
1967

1. PROJECT: IR-4 Evaluation of Current Data and Needed Research to Determine Tolerance Limits of Chemicals for Minor Uses on Agricultural Products.
2. COOPERATING AGENCIES AND PRINCIPAL LEADERS:

Technical Committee

Region

*Dr. R. L. Janes, Michigan	North Central
*Dr. C. H. VanMiddeltem, Fla.	Southern
*Dr. V. H. Freed (Chm.), Ore.	Western
*Dr. B. B. Pepper, N. J.	North Eastern

Administrative Advisory Committee  
(States)

*Dr. J. A. Callenbach, N. D.	North Central
*Dr. H. H. Wilkowske, (Chm.), Fla.	Southern
*Dr. K. W. Hill, Utah	Western
*Dr. W. C. Kennard, Conn.	North Eastern

(USDA)

Dr. E. R. McGovran, CSRS  
Dr. K. C. Walker, ARS

Consultants

Mr. H. G. Alford, USDA-PRD  
Dr. F. H. Dale, USDI  
Dr. W. D. McClellan, USDA-CRD  
Dr. J. E. Swift, Cal.

Project Leaders

Dr. C. C. Compton, Rutgers, N. J. - Project Coordinator  
Mr. G. M. Markle, Rutgers, N. J. - Ass't. Project Coordinator  
(Recording Secretary)

\*Voting member of the IR-4 Technical Committee

In addition the Experiment Station Director of each state has appointed a member of his staff to act as a liaison with the project coordinator.

### 3. PROGRESS OF WORK AND PRINCIPAL ACCOMPLISHMENTS

During 1967 the IR-4 Project personnel made a major effort to obtain use label extensions for minor uses of pesticide chemicals. Due to the proposed cancellation of all pesticide labels previously registered under "No Residue" and "Zero Tolerance" provisions unless "extensions" of such labels have been obtained by December 31, 1967, the IR-4 label clearance program was modified to meet the necessary requirements. Significantly under the proposed cancellation order no new crops, major or minor, could be cleared unless a tolerance was previously established for the pesticide involved. With December 31, 1967 designated as, "The End of the Year and the end of 'No Residue', 'Zero Tolerance' Registrations", IR-4 has been confronted with multiple problems in obtaining pesticide clearances on minor crops.

As of April 1966, 75 to 80% of all labelled uses for specific pesticides on specific crops were registered on a "No Residue" and "Zero Tolerance" basis. The problems of gaining label extensions have been staggering. Clearance of pesticides on minor crops rests on tolerance extensions and tolerance extensions on tolerances established for major crops. On the brighter side we wish to emphasize that we are in full accord with all requirements for registering pesticides under a tolerance. When label registrations are completed under the new regulations, the farmer-growers, extension personnel and pesticide manufacturers will know exactly where they stand with respect to all pesticide usages. To meet the first deadline, December 31, 1967 for all pesticides has been virtually impossible. IR-4 has cooperated with industry in promoting petitions for tolerances and has petitioned for tolerances through the IR-4 Technical Committee. IR-4 and all state experiment stations and certain government agencies are handicapped by lack of facilities for developing required toxicological data; by the lack of funds to finance such studies by commercial laboratories equipped to develop the required data. Only industry and certain governmental agencies are equipped to do toxicological work. The USDA, certain experiment stations, and regional laboratories are equipped to determine pesticide residues. The determinations of pesticide residue levels for crops are the first prerequisite for IR-4 to obtain requested label registrations. During 1967 arrangements were made for residue determinations which will result in minor crop clearances for 52 pesticides on 72 crops.

IR-4 has obtained extensions to date involving seven pesticide chemicals for 79 crop usages. Additional requests for extensions are in preparation and have been or will be submitted during December 1967. Results will not be known until January to June 1968.

The preparation of the IR-4 "list" of "Edible Crops and Plants Growing in the United States" which was a major IR-4 effort in 1966 was curtailed during 1967. The IR-4 Technical Committee mandate of May 3-4, 1967 has made it necessary to place major emphasis on obtaining pesticide use extensions to cover the proposed cancellation of labels registered under the older "No Residue," "Zero Tolerance" provisions. Forty-eight states and Puerto Rico responded to our May 19, 1967 request for a list of pesticides-insecticides, herbicides,

fungicides, nematocides, bactericides and plant growth regulators - where label cancellations would adversely affect long standing state pesticide recommendations and crop production. They also responded to our request for an indication of the residue work in progress at the individual experiment stations. Pesticide residue determinations in progress leave much to be desired when viewed as a percentage of the total requirements. The data covering over 400 pesticides have been collated and will be very useful in obtaining label registrations for pesticide usage on minor crops.

Likewise the IR-4 request for "HELP" in rounding up all residue data available at the State Experiment Stations for the phenoxy group of herbicides met with excellent response; 39 states sent in an impressive amount of residue data. We understand that the industry task force has or will submit a petition for the major herbicides in the phenoxy group, using, in part, the information supplied by IR-4.

#### 4. USEFULNESS OF FINDINGS:

During 1967 IR-4 made significant advances in clearing pesticide usage on minor crops. Because of the 1967 year end deadline for labels registered on a "No Residue", "Zero Tolerance" basis the results cannot be measured in definite terms at this time. The results may not be forthcoming until well after January 1, 1968.

#### 5. WORK PLANNED FOR NEXT YEAR (1968)

Major emphasis will be placed on obtaining tolerances for minor uses of agricultural chemical pesticides. We expect to have the minor crop "list" ready for editing.

January 10, 1968  
APPROVED:

January 10, 1968  
Date

January 10, 1968  
Date

C. D. Doughton  
IR-4 Project Coordinator

Virgil H. Freed  
IR-4 Technical Committee, Chairman

H. H. Wilkowske  
IR-4 Administrative Advisor, Chairman