

PD-AAV-716

50351

Soybean Rust in Brazil

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ISR-80-7

May 1980

International Soybean Program, INTSOY

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International Soybean Program, INISOY
University of Illinois at Urbana-Champaign
University of Puerto Rico, Mayaguez Campus
Trip Report - Brazil

- I. NAME: James B. Sinclair
Professor of International Plant Pathology/UIUC and INISOY
- II. PERIOD OF TRAVEL: 15 - 25 March 1980
- III. ITINERARY:
Arrive Bello Horizonte 230 - Depart Bello Horizonte 1530 (20 March)
Arrive Londrina 2000 - Depart Londrina 0810 (25 March)
- IV. PURPOSES:
1. To assess the progress of R. F. Cerkauskas, who is doing a portion of his Ph.D. dissertation research at the Federal University of Vicosa, Vicosa, Brazil under the co-direction of O. D. Dhingra.
 2. To become acquainted with the occurrence and importance of soybean rust in Brazil; to collect information on research being done or planned on soybean rust; and encourage cooperation between scientists and institutions on studies concerned with soybean rust in the western hemisphere.
- V. ORGANIZATIONS AND PERSONS VISITED:
- (Vicosa)
- Universidade Federal de Vicosa
- Mr. Geraldo M. Chavez, Head, Dept. of Plant Pathology
 - Dr. O. D. Dhingra, Plant Pathologist
 - Mr. James Muchovej, Plant Pathologist
 - Mr. Francisco Xavier, Plant Pathologist (soybean rust)
 - Milton Villa, Plant Pathologist
 - Mr. Raymond F. Cerkauskas graduate student (UIUC)
 - Leland Chandler, Entomologist
 - other research and technical personnel
- EPAMIG - Recinto ESAL, Lavras
- Ing. Josue Augusto Deslandes, Plant Pathologist
 - Ing. Antonio Machado Rezende, Plant Pathologist
- (Londrina)
- CNPSoja (National Soybean Research Center, EMBRAPA)
- Ing. Emidio Bonato, Director
 - Ing. Carlos Caio Machado, Associate Director of Administration
 - Ing. Milton Castor, Associate Director of Research
 - Ing. Elmelio Dall Agnol, Soybean Breeder
 - Dr. Romeu Kiihl, Soybean Breeder
 - Ing. Orival Gaston Menossa, Soybean Breeder
 - Ing. Alvero Almeida, Plant Pathologist

- Ing. Martin Homecheil, Plant Pathologist
- Ing. Ademir Henning, Plant Pathologist
- Ing. Imilson Queros, Cultural Practices
- other research and technical personnel

IAPAR (Fundacao Instituto Agronomico do Parana)

- Florindo Dalberto, General Secretary
- Dr. Y. R. Mehta, Wheat Pathologist and Director of the Wheat Program
- Dr. S. K. Mohan, Bean Pathologist and Director of the Bean Program
- Ing. Jose Roberto de Menezes, Bean Pathologist
- Ing. Onaur Ruano, Cotton Pathologist
- Ing. Rogeria M. Lemos Cardoso, Coffee Pathologist

VI. RESULTS AND ACCOMPLISHMENTS:

Vicosa:

Ray Cerkauskas' program is progressing very satisfactorily. He expects to complete his laboratory and field research by early August and return to the UFUC campus to analyze his data and write his dissertation. I received favorable reports on his progress from Mr. Chavez, Dr. Dhingra and several of Ray's coworkers. He has learned Portuguese and has no trouble communicating.

A large portion of my time was devoted to observing research on soybean rust, observing it in the field and discussing the potential of the disease. I presented an hour's seminar on the disease, which was attended by over 50 people. The discussion after the presentation lasted for over an hour. There is a great deal of interest in the disease.

Administrators and scientists are interested in having another Ph.D. candidate go to Vicosa to do a portion of his dissertation research at that institution.

Londrina:

Although I spent some time reviewing pathology research on Phaseolus bean, wheat, cotton and coffee, a majority of my time was spent discussing soybean rust. Soybean rust has been reported on soybean in Campinas, Vicosa and Lavras. CNPSoja is beginning to develop a coordinated research program on the disease. I gave an hour seminar on soybean rust which was followed by a long discussion session.

The serious diseases of soybean in Brazil are: Sclerotinia sclerotiorum, particularly in the seed production areas, Rhizoctonia dead patch, bud blight (tobacco streak virus) and soybean mosaic virus.

The CNPSoja would be interested in having a Ph.D. candidate do research.

Ing. Alvero, soybean virologist, reported that he has a strain of soybean mosaic virus that breaks resistance in Buffalo and PI 96983. He also has cultivars that do not transmit SMV through seeds. He wants to be in contact with Dr. Goodman concerning his studies. He sent Dr. Goodman reprints of his work and Dr. Goodman is going to send him reprints of the studies from UFUC.

Ing. Florindo Dalberto, General Secretary, IAPAR wants to keep the memorandum of agreement between IAPAR and the College of Agriculture and INTSOY on an active status.

VII. FOLLOW-UP ACTION:

1. Continue to assess the soybean rust situation in Brazil through the development of a rust research program.
2. Provide any assistance in the development of a "Soybean Rust Workshop" by the CNPSoja.