

Minutes of the 9th  
RTWG Germplasm/Rice Crop Advisory Committee Meeting

February 23, 1989

The 9th meeting of this committee was held February 23, 1989, at Stuttgart, AR, in conjunction with the Annual Rice Breeders' Conference. Members present were J. Neil Rutger (Chair), C. N. Bollich, R. H. Dilday, K. Grubenman, C. W. Johnson, D. G. Kanter, F. N. Lee, S. Linscombe, M. A. Marchetti, J. F. Robinson, D. E. Groth, D. E. Wesenberg, and M. A. Bohning (Facilitator). Numerous guests were also present.

1. Minutes of the 8th Meeting.

The minutes of the 8th meeting were approved as distributed by mail on July 28, 1988.

2. National Small Grains Germplasm Collection.

Darell Wesenberg, Research Leader at Aberdeen, reported that the small grains collection, including rice, is now at Aberdeen. Lee Urie, the Assistant Curator, is on board; recruitment is proceeding for a Curator.

Bob Dilday has been reviewing the rice collection. Some 12,000 to 14,000 entries were partially evaluated by T. H. Johnston during the rejuvenation project; these entries constitute the rice working collection. There are another 5,000 to 7,000 entries in the "gray" area, i.e., they were not in the rejuvenation project, and as many as 1,500 of them may not have been through quarantine. Dilday is working to clear up the "gray" area material.

It was reported there are 30,000 rice entries at the NSSL, but many of these are safekeeping samples held for IRRI, and are not meant to be introduced through U.S. quarantine.

3. Germplasm Evaluation.

Dilday reported that:

- a. Jan Leach has evaluated about 100 U.S. breeding lines and varieties against 14 isolates of bacterial leaf blight. Dilday presented her preliminary results, which indicated that some of the California germplasm, especially M-201, was among the most resistant U.S. germplasm. Since there was some variability of reaction among duplicate entries of varieties, the committee generally felt that the reasons for this variability should be determined.
- b. At Stuttgart, Dilday evaluated 5,000 entries in 1988 for allelopathy. Some 192 entries showed allelopathic effects (3"-7" weed-free circles around hills of rice) upon duck salad; 132 upon red stem; and 15 entries were allelopathic to both duck salad and red stem. Six entries showed allelopathy to broad leaf signalgrass; none of these six was common to the other two weeds. Considerable interest in this work was expressed by the committee. In 1988, Dilday also sprayed these 5,000 lines with Roundup herbicide (a few survived, but the results were unclear). The

5,000 lines were also rated for ratooning ability, and scored for plant height and maturity. Some 2,500 lines were evaluated for straighthead resistance, and 2,300 for sheath blight reaction by the toothpick test.

In 1989, Dilday plans to evaluate another <sup>5</sup>10,000 lines, *for several characteristics.*

4. Rice Quarantine Procedures.

Bruce J. Parliman, USDA-ARS National Plant Germplasm Quarantine Center, Glenn Dale, Maryland, reported that he is now responsible for rice quarantine, as well as several other crops. He introduced Cathy McLean, the technician who is now assigned full-time to the rice quarantine operation at Beltsville. Parliman explained in detail the procedures which will be employed, which will include periodic progress reports to the individual requesting the introduction. They are prepared to handle up to 250 accessions per year. The committee enthusiastically endorsed the new regime as presented.

*re Dilday's  
call on 3/20/89.*

5. Core Collection Report.

Rutger reported that the CACs have been requested to develop a brief report "...addressing the feasibility and practicality of initiating a core collection..." by March 15, 1989. Dilday agreed to take the lead in preparing the report, and solicited suggestions from Rutger, Wesenberg, Bollich, Johnson, Marchetti, and Robinson.

6. Time and Place of the Next Meeting.

The 10th meeting of the CAC probably will be held February 1990 in conjunction with the Rice Technical Working Group Meeting, Biloxi, MS. Exact time and place will be announced later.

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