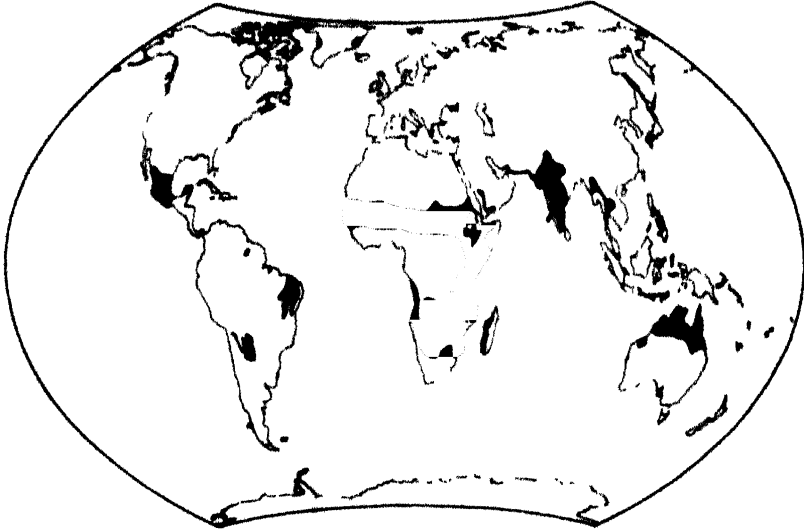


**INTERNATIONAL PEARL MILLET DISEASE RESISTANCE TESTING PROGRAM
(IPMDRTP)**

52

Progress Report: PMPDM 8001

RP



REPORT OF THE 1979 PRE-IPMDMN



ICRISAT

International Crops Research Institute for the Semi-Arid Tropics

ICRISAT Patancheru P.O.

Andhra Pradesh, India 502 324

1980

INTRODUCTION

The acceptance of the concept of multilocational testing for identification of stable disease resistance led in 1976 to the establishment of the International Pearl Millet Disease Resistance Testing Program containing the International Pearl Millet Downy Mildew Nursery (IPMDMN). In the IPMDMN 40 to 50 elite resistant materials are tested by cooperators throughout India and West Africa for reactions to the local downy mildew populations. From the results of the 1976 IPMDMN (and other trials) it was obvious that certain locations (particularly some in West Africa) provided much more severe downy mildew (DM) pressure than others. In early 1977, in discussion with several pathologists from other programs, it was decided that a PRE-IPMDMN trial should be established in which a large number of IPMDMN candidate entries are tested at a few key locations. Those succeeding would then go into the IPMDMN in the following year. So in 1977 the PRE-IPMDMN program was initiated with the cooperation of colleagues at Hissar in India and at Samaru, Nigeria and Kamboinse, Upper Volta in West Africa. The results from the 1978 PRE-IPMDMN were interesting and useful (see Report on the 1978 PRE-IPMDMN) and it was decided to continue this nursery annually.

COOPERATORS IN THE 1979 PRE-IPMDMN

Cooperators and locations in the 1979 PRE-IPMDMN

J. A. Frowd - Kamboinse, Upper Volta

N.V. Sundaram - Samaru, Nigeria

D. P. Thakur - Hissar, India

S.D. Singh - ICRISAT Center, India

TEST ENTRIES

The 150 test entries consisted of promising population progenies DM resistant in the ICRISAT Center DM screening nurseries and new germ-plasm and breeders lines from regions that had previously been shown to be good sources of DM resistance. Cooperators were requested to plant a local susceptible check at intervals throughout the trial.

NURSERY MANAGEMENT

Cooperators were requested to plant the trial in two replications in a DM nursery with assured high inoculum provided by prior-planted infector rows and/or the use of a DM sick-plot. The local susceptible was to be planted after every ten entries throughout the nursery.

RESULTS

The detailed data for each location by replication including plant population, and final incidence and infection index (severity) values are presented in Table 1 and 2

Plant population was generally adequate at ICRISAT Center, Kamboise and Hisar. At Samaru most entries had low plant population. We believe that at least 30 plants are needed to give a reliable DM rating and that the entries should be replicated.

PERFORMANCE OF ENTRIES AT DIFFERENT LOCATIONS

A summary of results is presented in Table 3 and the entries ranked on the across location mean severity values.

SAHARU

DM developed in all the test entries and severity ranged from 2 to 75 percent. Twenty five entries were DM low susceptible (410% severity). DM severity on local susceptible checks ranged from 9 to 33 percent.

KAMBOINSE

DM pressure on test entries was comparatively less than at Samaru. Thirteen entries were DM free, and an additional 70 entries were in the low susceptible category. The highest DM severity was 93 percent on SCI-8155. DM severity in the local susceptible checks averaged 39 percent, with a range of 22 to 53 percent.

ICRISAT CENTER

Sixteen entries were DM free, and 115 were low susceptible. The remaining 22 entries, with the exception of J-265-2 (27% DM), had <22 percent DM. On the local susceptible checks DM severity ranged from 61 to 81 percent.

HISSAR

Only 49 entries developed DM. DM severity for 44 entries was less than 10 percent, and on the remaining five DM severity was not more than 20 percent. The DM severity on the local susceptible checks ranged from 82 to 89 percent, the highest of all the locations.

PERFORMANCE OF ENTRIES ACROSS LOCATIONS

No entry was DM free, 14 entries had less than 10 percent DM severity in all replications at all locations, and 31 entries had no more than 15 percent severity in any replication at any location. Most of these entries will enter the 1980 IPMDMN.

As in previous years distinct differential reactions of entries were observed between India and Africa, and between certain African locations (Table 4). Generally, entries resistant in India were susceptible in Africa. Differences in the level of susceptibility of several entries between India and Africa and between African locations were also evident.

DISCUSSION

Despite the low DM severity on the entries used as local susceptible at Samaru and Kambolse, the screening of test entries has been effective at the four locations. A large number of resistant entries were identified for wide scale testing through IPMDMN program. Entries with distinct differential reactions will be further tested in International Pearl Millet Downy Mildew Differential trial. If their differential reaction is confirmed they will be included in the downy mildew differential set.

ENTRIES FOR THE 1980 PRE-IPMDMN

The bulk of the test entries for the PRE-IPMDMN will come through the ICRISAT Center DM screening program. Additional entries for this annual trial are welcome from scientists from national and regional programs, provided they have been shown to be DM resistant at the home location. Because of plant quarantine requirements in India, seed sent from abroad will take one year before it can be included in the trial.

SEED SUPPLY

Seeds of entries listed in this report are available to any scientist. Please send seed requests to the Principal Pathologist (Millet) at ICRISAT Center (address is given on the cover of this report) indicating that the seed requested is from the 1979 PRE-IPMDMN entries.

Table 1. Plant population, downy mildew incidence (%) and severity (%) of 150 test entries and local susceptible in the 1979 PRE-IPMDMN at Samaru and Kamboinse.

| Entry | SAMARU | | | | | | KAMBOINSE | | | | | |
|----------|--------------|-----|----------------|------|----------|------|--------------|-----|----------------|------|----------|------|
| | Total plants | | Inci- dence | | Severity | | Total plants | | Inci- dence | | Severity | |
| | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 |
| J 78-1 | 42 | 19 | 35.7 | 36.8 | 32.7 | 15.8 | 42 | 48 | 16.2 | 19.4 | 13.5 | 9.7 |
| 700770 | 33 | 30 | 24.2 | 23.3 | 13.6 | 15.0 | 34 | 42 | 3.2 | 5.6 | 3.2 | 5.6 |
| 700158 | 37 | 29 | 45.9 | 10.3 | 42.6 | 7.8 | 38 | 42 | 0 | 2.2 | 0 | 2.2 |
| 700335 | 29 | 35 | 17.2 | 17.1 | 13.8 | 9.3 | 51 | 40 | 5.7 | 3.0 | 5.7 | 3.0 |
| 700349 | 23 | 20 | 30.4 | 10 | 22.8 | 5 | 34 | 39 | 0 | 15.8 | 0 | 11.8 |
| J 102-SB | 35 | 31 | 31.4 | 9.7 | 27.1 | 5.6 | 62 | 44 | 24.3 | 7.7 | 19.6 | 5.1 |
| 700278 | 16 | 14 | 25 | 14.3 | 25 | 14.3 | 44 | 44 | 3.1 | 0 | 2.3 | 0 |
| 700622 | 32 | 11 | 28.1 | 18.2 | 27.3 | 18.2 | 47 | 31 | 2.9 | 10.7 | 0.7 | 4.5 |
| 700560 | 23 | 16 | 17.4 | 18.8 | 17.4 | 10.9 | 40 | 37 | 0 | 2.6 | 0 | 2.0 |
| 700537 | 14 | 26 | 28.6 | 3.7 | 25 | 1.9 | 40 | 41 | 0 | 5.3 | 0 | 4.6 |
| 700254 | 34 | 25 | 35.3 | 32.0 | 31.6 | 27.0 | 34 | 44 | 21.4 | 11.9 | 19.6 | 10.7 |
| 700546 | 9 | 29 | 11.1 | 6.9 | 11.1 | 4.3 | 45 | 38 | 4.8 | 0 | 4.8 | 0 |
| 700647 | 31 | 19 | 32.3 | 15.8 | 22.6 | 14.5 | 28 | 46 | 4.3 | 21.9 | 2.2 | 19.5 |
| 700179 | 34 | 27 | 23.5 | 14.8 | 19.9 | 9.3 | 48 | 41 | 0 | 2.5 | 0 | 2.5 |
| 700556 | 7 | 14 | 42.9 | 28.6 | 39.3 | 19.6 | 47 | 39 | 27.3 | 9.1 | 25.8 | 6.1 |
| 700572 | 22 | 35 | 22.7 | 17.1 | 15.9 | 12.1 | 34 | 22 | 3.0 | 28.6 | 3.0 | 17.9 |
| 700561 | 24 | 29 | 20.8 | 20.7 | 14.6 | 14.7 | 39 | 37 | 0 | 0 | 0 | 0 |
| 700486 | 14 | 25 | 21.4 | 8 | 21.4 | 7 | 45 | 41 | 20.7 | 6.9 | 20.7 | 4.7 |
| 700711 | 40 | 14 | 7.5 | 14.3 | 5.6 | 10.7 | 45 | 42 | 21.1 | 7.7 | 17.8 | 6.4 |
| 700489 | 13 | 34 | 38.5 | 17.6 | 38.5 | 12.5 | 36 | 45 | 8.1 | 0 | 7.4 | 0 |
| 700568 | 7 | 8 | 28.6 | 37.5 | 25 | 18.8 | 46 | 37 | 20.7 | 0 | 15.5 | 0 |
| J-264 | - | 6 | - | 0 | - | 45.8 | 44 | 46 | 2.8 | 27.0 | 2.8 | 25.0 |
| 700482 | 17 | 22 | 41.2 | 9.1 | 39.7 | 9.1 | 52 | 39 | 7.7 | 2.3 | 6.4 | 2.3 |
| 700787 | 37 | 9 | 21.6 | 22.2 | 18.9 | 16.7 | 48 | 43 | 9.4 | 7.1 | 9.4 | 4.5 |
| 700479 | 37 | 35 | 24.3 | 28.6 | 18.2 | 20 | 53 | 38 | 2.4 | 0 | 1.8 | 0 |
| 700599 | 32 | 25 | 18.8 | 12.0 | 14.8 | 11.0 | 24 | 35 | 9.1 | 0 | 4.5 | 0 |
| 700724 | 5 | 16 | 40 | 25 | 25 | 10.9 | 47 | 49 | 0 | 0 | 0 | 0 |
| 700590 | 25 | 38 | 20 | 5.3 | 17 | 5.3 | 38 | 45 | 0 | 0 | 0 | 0 |
| 700688 | 23 | 9 | 30.4 | 33.3 | 21.7 | 25 | 31 | 25 | 22.9 | 3.7 | 19.3 | 1.9 |
| 700619 | 40 | 29 | 10 | 13.8 | 9.4 | 6.9 | 49 | 30 | 2.7 | 10.0 | 2.7 | 7.5 |
| J-215-1 | 38 | 41 | 13.2 | 4.9 | 10.5 | 2.4 | 33 | 39 | 6.7 | 5.4 | 2.5 | 2.0 |
| J-238 | 30 | 21 | 36.7 | 57.1 | 29.2 | 50.0 | 41 | 47 | 2.9 | 8.6 | 2.9 | 8.6 |
| 700742 | 33 | 26 | 42.4 | 34.6 | 35.6 | 27.9 | 41 | 42 | 51.4 | 37.0 | 49.3 | 30.6 |
| 700490 | 37 | 35 | 29.7 | 14.3 | 24.3 | 10.0 | 45 | 37 | 20.0 | 16.1 | 15.7 | 8.1 |
| 700487 | 37 | 33 | 32.4 | 15.2 | 26.4 | 12.9 | 49 | 45 | 2.5 | 2.4 | 0.6 | 1.8 |
| J-52-SB | 16 | 21 | 56.3 | 23.8 | 32.8 | 11.9 | 56 | 27 | 20.0 | 50.0 | 17.9 | 43.3 |
| 700576 | 15 | 20 | 13.3 | 10.0 | 8.3 | 5.0 | 37 | 37 | 6.8 | 3.0 | 6.8 | 1.5 |
| J-71 | 43 | 29 | 51.2 | 27.6 | 34.3 | 19.8 | 41 | 37 | 55.2 | 65.7 | 46.6 | 57.9 |
| 700549 | 37 | 16 | 13.5 | 12.5 | 11.5 | 6.3 | 44 | 31 | 32.4 | 27.6 | 27.2 | 24.1 |
| J-64 | 38 | 43 | 36.8 | 30.2 | 34.9 | 18.0 | 29 | 29 | 15.4 | 0 | 13.5 | 0 |

Table 1. contd.

| Entry | SAMARU | | | | | | KAMBOINSE | | | | | |
|---------------|--------------|-----|----------------|------|----------|------|--------------|-----|----------------|------|----------|------|
| | Total plants | | Inci- dence | | Severity | | Total plants | | Inci- dence | | Severity | |
| | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 |
| 700255 | 35 | 36 | 37.1 | 25 | 29.3 | 19.4 | 40 | 41 | 31.4 | 4.8 | 30.7 | 4.2 |
| 700583 | 32 | 39 | 21.9 | 7.7 | 21.9 | 6.4 | 36 | 41 | 0 | 0 | 0 | 0 |
| 700797 | 25 | 31 | 40 | 3.2 | 34 | 3.2 | 44 | 47 | 0 | 0 | 0 | 0 |
| SDN 720-1 | 17 | 24 | 23.5 | 41.7 | 17.6 | 30.2 | 40 | 48 | 14.3 | 12.5 | 14.3 | 6.9 |
| J 92-1 | 16 | 3 | 12.5 | 0 | 12.5 | 0 | 40 | 35 | 7.1 | 0 | 7.1 | 0 |
| J 83-1 | 1 | 4 | 100 | 50 | 100 | 50 | 48 | 28 | 29.5 | 18.5 | 24.4 | 13 |
| J-163-1 | 32 | 5 | 46.9 | 20 | 36.7 | 5 | 52 | 33 | 30.8 | 20 | 29.5 | 18.3 |
| J-76 | 17 | 29 | 23.5 | 17.2 | 14.7 | 12.1 | 39 | 48 | 10.3 | 14.3 | 6.9 | 12.5 |
| 700633 | 20 | 5 | 15 | 0 | 11.3 | 0 | 42 | 39 | 2.7 | 3.6 | 2.0 | 3.6 |
| 700491 | 30 | 23 | 23.3 | 30.4 | 22.5 | 17.4 | 37 | 28 | 3.7 | 12.1 | 3.7 | 9.1 |
| 700687 | 39 | 8 | 12.8 | 12.5 | 10.3 | 12.5 | 52 | 35 | 4.5 | 9.1 | 4.5 | 8.3 |
| J-192-1 | 7 | 36 | 85.7 | 16.7 | 75 | 11.8 | 43 | 39 | 30.9 | 8.3 | 26.2 | 7.6 |
| J-234-1 | 34 | 3 | 23.5 | 33.3 | 23.5 | 25.0 | 53 | 45 | 5.4 | 28.1 | 4.1 | 25.8 |
| 700593 | 12 | 11 | 8.3 | 9.1 | 6.3 | 4.5 | 40 | 41 | 55.6 | 9.5 | 49.1 | 6.5 |
| J-150-1 | 32 | 8 | 21.9 | 100 | 19.5 | 78.1 | 25 | 45 | 0 | 0 | 0 | 0 |
| 700706 | 13 | 7 | 23.1 | 0 | 11.5 | 0 | 43 | 38 | 11.8 | 5.7 | 8.8 | 1.4 |
| J-201-1 | 9 | 9 | 22.2 | 11.1 | 22.2 | 8.3 | 43 | 12 | 14.6 | 16.7 | 11.6 | 8.3 |
| 700646 | 7 | 7 | 14.3 | 14.3 | 3.6 | 7.1 | 46 | 45 | 16.1 | 15.6 | 16.1 | 14.1 |
| J-260-2 | 33 | 13 | 45.5 | 23.1 | 33.3 | 9.6 | 42 | 37 | 14.3 | 17.2 | 12.1 | 10.3 |
| J-123-1 | 20 | 18 | 80 | 33.3 | 71.3 | 20.8 | 43 | 41 | 50 | 32.6 | 44.5 | 30.8 |
| 700781 | 11 | 35 | 27.3 | 11.4 | 27.3 | 9.3 | 47 | 41 | 0 | 2.6 | 0 | 2.0 |
| J-85-1 | 41 | 39 | 26.8 | 10.3 | 22 | 5.1 | 43 | 31 | 11.1 | 46.7 | 9.0 | 40.8 |
| 700792 | 20 | 3 | 20 | 0 | 15 | 0 | 37 | 36 | 0 | 3.8 | 0 | 3.8 |
| 700596 | 40 | 34 | 15 | 23.5 | 12.5 | 14 | 46 | 41 | 40.7 | 21.4 | 37.0 | 17.9 |
| 700612 | 38 | 15 | 15.8 | 26.7 | 11.8 | 21.7 | 39 | 48 | 12.5 | 10.0 | 10.2 | 5.0 |
| SDN-714 | 39 | 34 | 5.1 | 11.8 | 5.1 | 11.8 | 43 | 45 | 15.6 | 5.9 | 12.5 | 3.7 |
| B282x3/4 | | | | | | | | | | | | |
| EB 100-9 | 9 | 16 | 33.3 | 6.3 | 22.2 | 3.1 | 42 | 45 | 97.2 | 66.7 | 94.4 | 59.8 |
| J-262 | 8 | 17 | 37.5 | 11.8 | 31.3 | 5.9 | 33 | 48 | 9.1 | 5.4 | 6.8 | 3.4 |
| J 1644x3/4 | | | | | | | | | | | | |
| S6-2 | 31 | 37 | 12.9 | 23.7 | 11.3 | 19.1 | 42 | 33 | 68.9 | 18.4 | 63.8 | 14.5 |
| J 1644x3/4 | | | | | | | | | | | | |
| S6-3 | 37 | 40 | 24.3 | 10 | 16.9 | 9.4 | 43 | 48 | 32.5 | 22.7 | 23.8 | 19.9 |
| 3/4 HK | | | | | | | | | | | | |
| 128-1 | 14 | 32 | 92.9 | 12.5 | 58.9 | 7.8 | 38 | 48 | 25 | 2.4 | 22.7 | 1.8 |
| 3/4 EB | | | | | | | | | | | | |
| 171-2 | 40 | 14 | 17.5 | 28.6 | 14.4 | 28.6 | 45 | 33 | 37.8 | 19.4 | 35.1 | 16.9 |
| R-58-8-3-1 | 42 | 35 | 4.8 | 31.4 | 4.8 | 29.3 | 49 | 35 | 0 | 9.7 | 0 | 8.9 |
| R-310-4-3-326 | 29 | | 11.5 | 6.9 | 9.6 | 4.3 | 41 | 40 | 0 | 0 | 0 | 0 |
| R-303-5- | | | | | | | | | | | | |
| 4-4 | 21 | 31 | 19.0 | 12.9 | 13.1 | 8.9 | 36 | 46 | 5.4 | 0 | 3.4 | 0 |
| R-238-1-2-2 | 16 | 7 | 12.5 | 14.3 | 10.9 | 7.1 | 38 | 50 | 13.9 | 42.9 | 10.4 | 32.1 |
| R-238-1-2-1 | 37 | 37 | 10.8 | 24.3 | 8.8 | 16.2 | 41 | 36 | 4.5 | 20 | 1.7 | 16.7 |

Table 1 contd.

| Entry | Total plants | | Inci- dence | | Severity | | Total plants | | Inci- dence | | Severity | |
|-----------------------|--------------|-----|----------------|------|----------|------|--------------|-----|----------------|------|----------|------|
| | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 |
| R-238-1-1-5 | 3 | 27 | 33.3 | 29.6 | 16.7 | 14.8 | 26 | 32 | 0 | 0 | 0 | 0 |
| R-238-1-1-2 | 42 | 35 | 28.6 | 15.8 | 23.8 | 9.2 | 39 | 43 | 28.1 | 19.5 | 22.7 | 17.1 |
| R-203-4-3-2 | 36 | 12 | 22.2 | 33.3 | 19.4 | 18.8 | 39 | 40 | 3.3 | 4.8 | 3.3 | 3.6 |
| R-203-4-3-1 | 20 | - | 20 | - | 16.3 | - | 43 | 43 | 2.7 | 2.9 | 2.0 | 2.2 |
| R-203-4-1-3 | 27 | 38 | 70.4 | 34.2 | 63.9 | 25.7 | 48 | 45 | 0 | 4.5 | 0 | 4.5 |
| R-203-4-1-1 | 42 | 36 | 64.3 | 33.3 | 34.5 | 25.7 | 48 | 43 | 2.9 | 0 | 2.9 | 0 |
| EC(S4)-211-1 | 36 | 39 | 44.4 | 0 | 34.7 | 0 | 48 | 38 | 4.3 | 0 | 3.3 | 0 |
| EC(S4)-86-4 | 28 | 15 | 35.7 | 20 | 21.4 | 8.3 | 36 | 41 | 13.5 | 3.0 | 13.5 | 0.8 |
| EC(S4)-129-6 | 26 | 5 | 50 | 20 | 29.8 | 10 | 42 | 43 | 35.1 | 29.7 | 25.7 | 16.2 |
| EC(S4)-177-1 | 35 | 5 | 8.6 | 0 | 7.9 | 0 | 37 | 34 | 65.7 | 20 | 61.4 | 15.8 |
| EC(S4)-177-4 | 13 | 19 | 53.8 | 15.8 | 32.7 | 7.9 | 35 | 32 | 85.7 | 100 | 79.5 | 97 |
| EC(S4)-177-5 | 25 | 12 | 56 | 16.7 | 43 | 14.6 | 28 | 35 | 41.7 | 57.1 | 38.5 | 45 |
| EC(S4)-69-10 | 34 | 18 | 52.9 | 50 | 33.8 | 44.4 | 26 | 43 | 92 | 96.6 | 89 | 91.4 |
| EC(S4)-29-4 | 38 | 35 | 68.4 | 42.9 | 65.8 | 38.6 | 35 | 43 | 23.5 | 56.4 | 21.3 | 52.6 |
| EC(S4)-10-4 | 24 | 36 | 11.8 | 8.3 | 9.6 | 5.6 | 45 | 44 | 0 | 2.5 | 0 | 0.6 |
| IVS-P77 | 37 | 37 | 5.4 | 24.3 | 3.4 | 16.9 | 37 | 47 | 11.1 | 2.9 | 9.3 | 2.9 |
| WC-B77 | 39 | 30 | 30.8 | 10.0 | 26.3 | 5.8 | 46 | 44 | 21.1 | 13.5 | 16.4 | 13.5 |
| MC-K77 | 40 | 44 | 17.5 | 20.5 | 12.5 | 13.1 | 37 | 34 | 18.6 | 22.6 | 18.6 | 17.7 |
| WC-8015 | 25 | 36 | 24 | 11.1 | 14 | 8.3 | 43 | 40 | 0 | 21.2 | 0 | 14.4 |
| WC-8082 | 29 | 14 | 10.3 | 21.4 | 10.3 | 17.9 | 45 | 38 | 0 | 2.9 | 0 | 0.7 |
| WC-8097 | 38 | 37 | 52.6 | 24.3 | 41.4 | 18.9 | 52 | 46 | 2.3 | 5.4 | 1.1 | 5.4 |
| WC-8129 | 39 | 38 | 46.2 | 13.2 | 35.9 | 9.2 | 45 | 34 | 0 | 14.7 | 0 | 10.3 |
| WC-8189 | 40 | 38 | 25 | 26.3 | 15 | 24.3 | 40 | 45 | 7.7 | 13.5 | 6.7 | 9.5 |
| WC-8220 | 32 | 16 | 12.5 | 0 | 8.6 | 0 | 38 | 45 | 3.4 | 0 | 3.4 | 0 |
| IVS-8038 | 38 | 35 | 21.1 | 8.6 | 15.1 | 5 | 47 | 45 | 5.9 | 10.5 | 2.9 | 9.9 |
| IVS-8088 | 28 | 25 | 32.1 | 12 | 29.5 | 9 | 35 | 36 | 20 | 18.9 | 20 | 16.2 |
| IVS-8093 | 40 | 31 | 15 | 12.9 | 8.1 | 9.7 | 23 | 45 | 28.6 | 9.8 | 20.2 | 9.1 |
| IVS-8172 | 27 | 27 | 14.8 | 11.1 | 11.1 | 4.6 | 48 | 47 | 2.6 | 2.6 | 2.6 | 2.6 |
| IVS-8178 | 40 | 42 | 27.5 | 16.7 | 24.4 | 14.3 | 43 | 41 | 10.8 | 2.8 | 8.1 | 2.8 |
| IVS-8206 | 35 | 41 | 31.4 | 36.6 | 25 | 23.2 | 38 | 42 | 32.1 | 29.3 | 28.6 | 27.4 |
| NEC-8010 | 40 | 35 | 60 | 51.4 | 60 | 40 | 50 | 35 | 9.1 | 2.9 | 6.8 | 1.4 |
| NEC-8121 | 39 | 37 | 5.1 | 18.9 | 2.6 | 11.5 | 43 | 42 | 15 | 36.7 | 11.9 | 19.2 |
| NEC-8127 | 38 | 37 | 18.4 | 29.7 | 12.5 | 18.9 | 39 | 43 | 15.6 | 8.1 | 10.2 | 5.4 |
| NEC-8178 | 41 | 37 | 34.1 | 5.4 | 28.7 | 2.0 | 46 | 43 | 33.3 | 47.4 | 30.3 | 42.1 |
| NEC-8-87 | 10 | 27 | 50 | 25.9 | 40 | 18.5 | 51 | 45 | 41.0 | 45.7 | 38.5 | 40.0 |
| NELC-8124 | 31 | 21 | 19.4 | 19.0 | 16.1 | 9.5 | 37 | 40 | 0 | 0 | 0 | 0 |
| NELC-8127 | 38 | 35 | 47.4 | 22.9 | 38.8 | 15.7 | 41 | 27 | 20 | 30 | 14.3 | 21.7 |
| NELC-8156 | 40 | 29 | 12.5 | 20.7 | 10.6 | 17.2 | 56 | 43 | 3.8 | 6.3 | 3.8 | 6.3 |
| NELC-8221 | 28 | 16 | 10.7 | 62.5 | 6.3 | 59.4 | 36 | 33 | 66.7 | 63.3 | 63.3 | 56.7 |
| SC ₁ -8003 | 42 | 36 | 42.9 | 16.7 | 38.1 | 11.8 | 40 | 43 | 75 | 78.1 | 70.1 | 74.2 |
| SC ₁ -8014 | 37 | 44 | 10.8 | 18.2 | 10.1 | 12.5 | 49 | 39 | 12.8 | 16.7 | 9.6 | 11.1 |
| SC ₁ -8082 | 40 | 37 | 22.5 | 29.7 | 19.4 | 20.3 | 40 | 45 | 14.6 | 7.3 | 13.4 | 7.3 |
| SC ₁ -8129 | 35 | 33 | 34.3 | 30.3 | 26.4 | 25.0 | 45 | 47 | 8.8 | 10.3 | 8.8 | 6.4 |
| SC ₁ -8155 | 38 | 31 | 34.2 | 29.0 | 31.6 | 26.6 | 39 | 34 | 100 | 94.1 | 95.6 | 89.7 |
| NELC-8010 | 40 | 17 | 17.5 | 5.9 | 8.8 | 2.9 | 43 | 35 | 5.9 | 0 | 3.7 | 0 |

Table 1. contd.

| Entry | SAMARU | | | | | | KAMBOINSE | | | | | |
|--------------------------------------|--------------|-----|----------------|------|----------|------|--------------|-----|----------------|------|----------|------|
| | Total plants | | Inci- dence | | Severity | | Total plants | | Inci- dence | | Severity | |
| | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 |
| MC-8044 | 39 | 27 | 23.1 | 22.2 | 22.4 | 14.8 | 39 | 34 | 26.7 | 10.7 | 22.5 | 8.9 |
| MC-8055 | 40 | 40 | 5 | 30 | 5 | 18.1 | 43 | 43 | 2.4 | 12.0 | 2.4 | 4.0 |
| MC-8080 | 35 | 33 | 20 | 9.1 | 16.4 | 5.3 | 48 | 41 | 9.5 | 6.5 | 7.1 | 1.6 |
| MC-8151 | 40 | 38 | 35 | 7.9 | 26.9 | 3.9 | 42 | 48 | 8.1 | 22.9 | 8.1 | 11.4 |
| MC-8196 | 32 | 10 | 28.1 | 10 | 17.2 | 10 | 44 | 51 | 6.8 | 7.5 | 3.4 | 6.3 |
| E298-2-4 | 26 | 11 | 68 | 90.9 | 60 | 65.9 | 46 | 31 | 5.7 | 3.4 | 4.3 | 3.4 |
| E298-2-1-8 | 11 | 39 | 0 | 5.1 | 0 | 3.2 | 49 | 38 | 2.7 | 2.8 | 1.4 | 2.8 |
| ML 7903 | 46 | 9 | 23.9 | 44.4 | 15.8 | 30.6 | 36 | 46 | 10.7 | 4.9 | 7.1 | 3.7 |
| F4-FC-1474- 2-2-2 | 40 | 32 | 12.2 | 21.9 | 6.1 | 18.8 | 46 | 21 | 21.9 | 14.3 | 14.8 | 10.7 |
| ML-7901 | 37 | 20 | 40.5 | 10.0 | 36.5 | 6.3 | 43 | 37 | 22.2 | 14.7 | 20.8 | 6.6 |
| 700043 | 38 | 11 | 18.4 | 54.5 | 14.5 | 50 | 26 | 41 | 16.7 | 12.8 | 9.7 | 11.5 |
| 700780 | 40 | 11 | 12.5 | 18.2 | 11.9 | 11.4 | 50 | 42 | 0 | 0 | 0 | 0 |
| 700512 | 22 | 27 | 0 | 7.4 | 0 | 3.7 | 44 | 30 | 2.9 | 0 | 2.9 | 0 |
| SDN 617 | 25 | 35 | 56 | 20.0 | 44 | 15.0 | 41 | 48 | 0 | 0 | 0 | 0 |
| 700638 | 29 | 27 | 17.2 | 18.5 | 12.1 | 13.9 | 42 | 29 | 17.1 | 30.3 | 13.6 | 25.8 |
| 700563 | 12 | 17 | 23.1 | 35.3 | 15.4 | 33.8 | 44 | 41 | 12.9 | 15.0 | 8.9 | 8.8 |
| J-6 | 8 | 25 | 25 | 40.0 | 21.9 | 32.0 | 52 | 45 | 35.1 | 41.2 | 31.8 | 22.8 |
| 700190 | 28 | 25 | 25 | 20 | 22.3 | 14 | 47 | 36 | 0 | 0 | 0 | 0 |
| J-18-1 | 21 | 5 | 33.3 | 0 | 31.0 | 0 | 37 | 35 | 33.3 | 16.7 | 32.6 | 12.5 |
| J-265-2 | 16 | 3 | 12.5 | 0 | 3.1 | 0 | 36 | 30 | 37.0 | 17.9 | 33.3 | 17 |
| 700481 | 29 | 29 | 44.8 | 31.0 | 31.9 | 19.8 | 39 | 37 | 21.2 | 14.7 | 13.6 | 11.8 |
| J-235 | 36 | 32 | 55.6 | 31.3 | 47.2 | 29.7 | 35 | 48 | 39.3 | 64.1 | 33.0 | 59.6 |
| 700726 | 25 | 26 | 60 | 46.2 | 60 | 35.6 | 41 | 46 | 2.9 | 6.3 | 2.9 | 6.3 |
| J-78 | - | 24 | - | 29.2 | - | 21.9 | 45 | 42 | 36.8 | 27.0 | 32.2 | 21.6 |
| J-87-1 | 17 | 35 | 11.8 | 11.4 | 10.3 | 10.7 | 43 | 39 | 15.6 | 33.3 | 12.5 | 28.0 |
| 700526 | 16 | 25 | 25 | 40 | 18.8 | 26 | 52 | 37 | 14.3 | 12.1 | 12.5 | 5.3 |
| 700283 | 12 | 10 | 33.3 | 0 | 27.1 | 0 | 46 | 46 | 0 | 0 | 0 | 0 |
| J-50-1 | 4 | 3 | 66.7 | 33.3 | 41.7 | 25 | 12 | 30 | 100.0 | 32.1 | 79.0 | 31.3 |
| Local sus- ceptible ^{a/} | 28 | 28 | 27 | 21 | 21.6 | 14.8 | 43 | 39 | 41.7 | 45.9 | 36.5 | 41.1 |

^{a/} Mean of 15 in each replication

Table 2 Plant population, downy mildew incidence (%) and severity (%) of 150 test entries and local susceptible in the 1979 PRE-IPMDMN at ICRI SAT Center and Hissar.

| Entry | ICRISAT CENTER | | | | | | HISSAR | | | | | |
|----------|----------------|-----|----------------|------|----------|------|--------------|-----|----------------|------|----------|------|
| | Total plants | | Inci- dence | | Severity | | total plants | | inci- dence | | Severity | |
| | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 |
| J 78-1 | 65 | 44 | 1.5 | 9.1 | 0.4 | 5.7 | 78 | 87 | 5.1 | 0 | 3.2 | 0 |
| 700770 | 50 | 53 | 4.0 | 0 | 4.0 | 0 | 66 | 27 | 0 | 0 | 0 | 0 |
| 700158 | 64 | 47 | 1.6 | 0 | 0.8 | 0 | 87 | 69 | 0 | 0 | 0 | 0 |
| 700335 | 47 | 49 | 2.1 | 4.1 | 2.1 | 3.1 | 95 | 95 | 0 | 0 | 0 | 0 |
| 700349 | 54 | 50 | 0 | 6.0 | 0 | 4.5 | 53 | 117 | 0 | 0 | 0 | 0 |
| J 102-SB | 56 | 47 | 1.8 | 8.5 | 0.9 | 7.4 | 118 | 51 | 3.4 | 0 | 1.5 | 0 |
| 700278 | 59 | 52 | 0 | 0 | 0 | 0 | 75 | 68 | 0 | 0 | 0 | 0 |
| 700622 | 58 | 44 | 1.7 | 4.5 | 1.7 | 1.7 | 97 | 82 | 11.3 | 12.2 | 6.4 | 5.5 |
| 700560 | 50 | 65 | 14 | 4.6 | 9 | 3.8 | 75 | 27 | 0 | 0 | 0 | 0 |
| 700537 | 60 | 60 | 0 | 0 | 0 | 0 | 111 | 72 | 0 | 0 | 0 | 0 |
| 700254 | 49 | 53 | 8.2 | 13.2 | 6.1 | 12.7 | 23 | 102 | 0 | 15.7 | 0 | 8.3 |
| 700546 | 37 | 58 | 5.4 | 0 | 4.1 | 0 | 73 | 3 | 0 | 0 | 0 | 0 |
| 700647 | 42 | 44 | 11.9 | 2.3 | 8.9 | 2.3 | 84 | 80 | 42.9 | 23.8 | 26.5 | 12.8 |
| 700179 | 57 | 53 | 7.0 | 3.8 | 6.1 | 1.4 | 93 | 81 | 0 | 0 | 0 | 0 |
| 700556 | 57 | 52 | 1.8 | 0 | 0.9 | 0 | 68 | 57 | 0 | 0 | 0 | 0 |
| 700572 | 46 | 56 | 6.5 | 3.6 | 3.8 | 3.6 | 41 | 72 | 0 | 19.4 | 0 | 9.7 |
| 700561 | 58 | 51 | 3.4 | 3.9 | 1.3 | 2.9 | 121 | 35 | 0 | 0 | 0 | 0 |
| 700486 | 58 | 47 | 1.7 | 0 | 1.7 | 0 | 78 | 61 | 0 | 0 | 0 | 0 |
| 700711 | 49 | 54 | 2.0 | 3.7 | 2.0 | 3.7 | 89 | 66 | 0 | 0 | 0 | 0 |
| 700489 | 49 | 47 | 2.0 | 0 | 1.0 | 0 | 77 | 68 | 0 | 0 | 0 | 0 |
| 700568 | 54 | 56 | 1.9 | 3.6 | 0.5 | 2.7 | 82 | 57 | 0 | 0 | 0 | 0 |
| J-264 | 48 | 32 | 16.7 | 6.3 | 12.0 | 4.7 | 78 | 38 | 0 | 0 | 0 | 0 |
| 700482 | 64 | 53 | 1.6 | 0 | 0.8 | 0 | 74 | 53 | 6.8 | 0 | 4.7 | 0 |
| 700787 | 57 | 39 | 8.8 | 2.6 | 5.7 | 2.6 | 36 | 104 | 0 | 0 | 0 | 0 |
| 700479 | 37 | 50 | 2.7 | 2.0 | 2.7 | 2.0 | 78 | 130 | 0 | 0 | 0 | 0 |
| 700599 | 50 | 51 | 6.0 | 0 | 5.0 | 0 | 35 | 9 | 0 | 0 | 0 | 0 |
| 700724 | 48 | 50 | 4.2 | 6.0 | 1.6 | 5.0 | 90 | 41 | 0 | 0 | 0 | 0 |
| 700590 | 53 | 56 | 0 | 1.8 | 0 | 1.8 | 84 | 77 | 0 | 0 | 0 | 0 |
| 700688 | 50 | 51 | 4.0 | 0 | 1.5 | 0 | 41 | 39 | 0 | 0 | 0 | 0 |
| 700619 | 55 | 59 | 1.8 | 0 | 1.8 | 0 | 78 | 97 | 0 | 0 | 0 | 0 |
| J-215-1 | 54 | 50 | 3.7 | 2.0 | 2.3 | 2.0 | 71 | 53 | 0 | 0 | 0 | 0 |
| J-238 | 50 | 38 | 0 | 0 | 0 | 0 | 17 | 71 | 0 | 0 | 0 | 0 |
| 700742 | 54 | 56 | 0 | 3.6 | 0 | 3 | 35 | 65 | 0 | 0 | 0 | 0 |
| 700490 | 50 | 51 | 2.0 | 0 | 0.5 | 0 | 56 | 68 | 0 | 0 | 0 | 0 |
| 700487 | 57 | 51 | 1.8 | 1.9 | 0.9 | 2.0 | 78 | 47 | 0 | 0 | 0 | 0 |
| J-52-SB | 58 | 56 | 1.7 | 1.8 | 0.4 | 0.9 | 35 | 77 | 0 | 0 | 0 | 0 |
| 700576 | 43 | 58 | 18.6 | 24.1 | 18.6 | 17.7 | 19 | 56 | 0 | 0 | 0 | 0 |
| J-71 | 62 | 57 | 12.9 | 7.0 | 10.1 | 7.0 | 55 | 106 | 0 | 0 | 0 | 0 |
| 700549 | 68 | 52 | 10.3 | 3.8 | 8.8 | 1.4 | 73 | 72 | 0 | 0 | 0 | 0 |
| J-64 | 42 | 36 | 2.4 | 19.4 | 2.4 | 14.6 | 39 | 45 | 0 | 0 | 0 | 0 |

Table 2 contd.

| Entry | ICRISAT CENTER | | | | | | HISSAR | | | | | |
|--------------|----------------|-----|----------------|------|----------|------|--------------|-----|----------------|------|----------|------|
| | Total plants | | Incl- dence | | Severity | | Total plants | | Incl- dence | | Severity | |
| | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 |
| 700255 | 63 | 57 | 20.6 | 21.1 | 16.7 | 16.7 | 61 | 61 | 23 | 0 | 10.2 | 0 |
| 700583 | 45 | 33 | 2.2 | 0 | 1.1 | 0 | 83 | 64 | 0 | 0 | 0 | 0 |
| 700797 | 48 | 58 | 0 | 0 | 0 | 0 | 27 | 112 | 0 | 0 | 0 | 0 |
| SDN 720-1 | 53 | 42 | 3.8 | 0 | 1.4 | 0 | 45 | 77 | 0 | 0 | 0 | 0 |
| J 92-1 | 47 | 46 | 0 | 2.2 | 0 | 2.2 | 42 | 45 | 0 | 0 | 0 | 0 |
| J 83-1 | 49 | 47 | 12.2 | 23.4 | 11.2 | 20.2 | 53 | 112 | 0 | 3.6 | 0 | 2.0 |
| J-163-1 | 43 | 57 | 4.7 | 1.8 | 3.5 | 1.8 | 25 | 36 | 0 | 0 | 0 | 0 |
| J-76 | 47 | 54 | 17.0 | 14.8 | 13.3 | 11.1 | 15 | 111 | 0 | 0 | 0 | 0 |
| 700633 | 46 | 55 | 2.2 | 3.6 | 1.1 | 1.4 | 65 | 92 | 0 | 0 | 0 | 0 |
| 700491 | 51 | 50 | 3.9 | 4.0 | 2.9 | 4.0 | 94 | 95 | 0 | 0 | 0 | 0 |
| 700687 | 56 | 57 | 1.8 | 1.8 | 0.4 | 0.9 | 88 | 68 | 0 | 1.5 | 0 | 1.5 |
| J-192-1 | 51 | 45 | 21.6 | 26.7 | 17.2 | 20.0 | 84 | 62 | 20.2 | 0 | 10.1 | 0 |
| J-234-1 | 37 | 57 | 10.8 | 1.8 | 4.7 | 1.8 | 31 | 53 | 0 | 9.4 | 0 | 6.1 |
| 700593 | 70 | 37 | 4.3 | 2.7 | 2.5 | 2.7 | 52 | 32 | 0 | 0 | 0 | 0 |
| J-150-1 | 50 | 47 | 14.0 | 6.4 | 10.5 | 3.7 | 16 | 37 | 0 | 0 | 0 | 0 |
| 700706 | 46 | 41 | 2.2 | 2.4 | 1.1 | 1.2 | 57 | 35 | 0 | 0 | 0 | 0 |
| J-201-1 | 54 | 56 | 11.1 | 3.6 | 9.3 | 2.2 | 58 | 98 | 55.2 | 6.1 | 36.2 | 3.6 |
| 700646 | 42 | 53 | 7.1 | 3.8 | 6.0 | 3.8 | 62 | 8 | 0 | 0 | 0 | 0 |
| J-260-2 | 52 | 51 | 1.9 | 1.9 | 1.9 | 0.5 | 51 | 81 | 0 | 0 | 0 | 0 |
| J-123-1 | 45 | 52 | 15.6 | 19.2 | 13.9 | 19.2 | 34 | 31 | 38.2 | 38.7 | 17.6 | 20.2 |
| 700781 | 52 | 55 | 3.8 | 0 | 1.4 | 0 | 69 | 48 | 0 | 0 | 0 | 0 |
| J-85-1 | 51 | 56 | 0 | 1.8 | 0 | 0.4 | 84 | 86 | 0 | 14 | 0 | 7.8 |
| 700792 | 44 | 59 | 0 | 3.4 | 0 | 2.5 | 103 | 109 | 0 | 0 | 0 | 0 |
| 700596 | 61 | 56 | 1.6 | 0 | 1.6 | 0 | 86 | 117 | 0 | 0 | 0 | 0 |
| 700612 | 55 | 40 | 0 | 7.5 | 0 | 5.6 | 87 | 107 | 6.9 | 0 | 3.7 | 0 |
| SDN-714 | 53 | 53 | 0 | 0 | 0 | 0 | 98 | 84 | 0 | 0 | 0 | 0 |
| B282x3/4 EB | | | | | | | | | | | | |
| 100-9 | 50 | 51 | 0 | 0 | 0 | 0 | 74 | 45 | 44.6 | 22.9 | 22.6 | 10.4 |
| J-262 | 41 | 41 | 7.1 | 12.2 | 14.6 | 11.0 | 51 | 61 | 0 | 6.6 | 0 | 2.9 |
| J 1644x3/4 | | | | | | | | | | | | |
| 56-12 | 46 | 59 | 4.3 | 1.7 | 3.8 | 0.8 | 82 | 59 | 0 | 0 | 0 | 0 |
| J 1644x3/4 | | | | | | | | | | | | |
| 56-3 | 53 | 53 | 1.9 | 13.2 | 1.9 | 8.5 | 56 | 82 | 0 | 0 | 0 | 0 |
| 3/4HK 128-1 | 54 | 61 | 0 | 0 | 0 | 0 | 87 | 48 | 0 | 0 | 0 | 0 |
| 3/4 EB 171-2 | 51 | 65 | 0 | 0 | 0 | 0 | 41 | 58 | 0 | 0 | 0 | 0 |
| R-58-8-3-1 | 52 | 58 | 3.8 | 0 | 2.9 | 0 | 70 | 43 | 20 | 0 | 9.6 | 0 |
| R-310-4-3-3 | 51 | 57 | 19.6 | 29.8 | 16.2 | 28.1 | 46 | 59 | 0 | 0 | 0 | 0 |
| R-303-5-4-4 | 55 | 62 | 21.8 | 25.8 | 13.6 | 17.3 | 23 | 56 | 0 | 0 | 0 | 0 |
| R-238-1-2-2 | 52 | 50 | 0 | 0 | 0 | 0 | 49 | 70 | 0 | 0 | 0 | 0 |
| R-238-1-2-1 | 45 | 59 | 4.4 | 0 | 3.3 | 0 | 65 | 65 | 0 | 0 | 0 | 0 |
| R-238-1-1-5 | 39 | 48 | 0 | 2.1 | 0 | 2.1 | 23 | 17 | 0 | 52.9 | 0 | 26.5 |
| R-238-1-1-2 | 48 | 58 | 0 | 0 | 0 | 0 | 56 | 51 | 0 | 0 | 0 | 0 |
| R-203-4-3-2 | 67 | 55 | 5.9 | 3.6 | 5.2 | 2.7 | 84 | 113 | 6 | 0 | 5.1 | 0 |
| R-203-4-3-1 | 57 | 58 | 3.5 | 0 | 2.6 | 0 | 107 | 58 | 0 | 0 | 0 | 0 |

Table 2 contd

| Entry | ICRISAT CENTER | | | | | | HISSAR | | | | | |
|-----------------------|----------------|-----|----------------|------|----------|------|--------------|-----|----------------|------|----------|-----|
| | Total plants | | Inci- dence | | Severity | | Total plants | | Inci- dence | | Severity | |
| | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 |
| R-203-4-1-3 | 54 | 50 | 1.9 | 0 | 0.5 | 0 | 78 | 78 | 0 | 0 | 0 | 0 |
| R-203-4-1-1 | 50 | 52 | 0 | 3.8 | 0 | 3.8 | 72 | 68 | 0 | 0 | 0 | 0 |
| EC(S4)-211-1 | 50 | 56 | 12 | 5.4 | 9.5 | 2.2 | 70 | 56 | 0 | 0 | 0 | 0 |
| EC(S4)-86-4 | 53 | 50 | 1.9 | 2.0 | 0.9 | 2.0 | 42 | 38 | 4.8 | 0 | 3.0 | 0 |
| EC(S4)-129-6 | 52 | 61 | 5.8 | 3.3 | 4.3 | 3.3 | 47 | 92 | 0 | 0 | 0 | 0 |
| EC(S4)-177-1 | 36 | 54 | 11.1 | 18.5 | 9.7 | 17.6 | 41 | 77 | 0 | 0 | 0 | 0 |
| EC(S4)-177-4 | 50 | 49 | 10.0 | 20.4 | 7.5 | 18.4 | 34 | 32 | 11.1 | 0 | 6.0 | 0 |
| EC(S4)-177-5 | 62 | 54 | 0 | 0 | 0 | 0 | 68 | 67 | 0 | 0 | 0 | 0 |
| EC(S4)-69-10 | 60 | 58 | 11.7 | 0 | 7.9 | 0 | 42 | 53 | 4.8 | 0 | 3.0 | 0 |
| EC(S4)-29-4 | 60 | 72 | 6.7 | 8.3 | 4.6 | 5.9 | 38 | 102 | 0 | 6.9 | 0 | 3.9 |
| EC(S4)-10-4 | 51 | 63 | 1.9 | 0 | 1.0 | 0 | 61 | 47 | 0 | 0 | 0 | 0 |
| IVS-P77 | 49 | 51 | 2.0 | 0 | 1.0 | 0 | 81 | 88 | 0 | 5.7 | 0 | 2.8 |
| WC-B77 | 40 | 61 | 0 | 3.3 | 0 | 2.5 | 78 | 33 | 0 | 0 | 0 | 0 |
| WC-K77 | 40 | 53 | 5 | 5.7 | 3.1 | 3.8 | 73 | 57 | 0 | 17.5 | 0 | 7.9 |
| WC-8015 | 47 | 52 | 4.3 | 3.8 | 4.3 | 2.4 | 81 | 97 | 21 | 0 | 10.5 | 0 |
| WC-8082 | 52 | 44 | 0 | 4.5 | 0 | 1.7 | 36 | 75 | 0 | 0 | 0 | 0 |
| WC-8097 | 57 | 67 | 5.3 | 8.9 | 2.6 | 7.5 | 76 | 62 | 0 | 0 | 0 | 0 |
| WC-8129 | 59 | 53 | 1.7 | 1.9 | 1.7 | 1.9 | 78 | 57 | 0 | 0 | 0 | 0 |
| WC-8189 | 52 | 51 | 1.9 | 1.9 | 1.9 | 2.0 | 56 | 66 | 0 | 18.2 | 0 | 6.4 |
| WC-8220 | 67 | 51 | 0 | 0 | 0 | 0 | 87 | 93 | 0 | 0 | 0 | 0 |
| IVS-8038 | 42 | 44 | 2.4 | 6.8 | 2.4 | 6.8 | 86 | 60 | 0 | 0 | 0 | 0 |
| IVS-8088 | 58 | 49 | 0 | 0 | 0 | 0 | 75 | 91 | 0 | 7.7 | 0 | 4.1 |
| IVS-8093 | 59 | 59 | 1.7 | 0 | 1.7 | 0 | 30 | 31 | 0 | 0 | 0 | 0 |
| IVS-8172 | 44 | 64 | 0 | 1.6 | 0 | 1.6 | 38 | 88 | 0 | 0 | 0 | 0 |
| IVS-8178 | 46 | 53 | 10.9 | 5.7 | 7.1 | 5.7 | 84 | 50 | 0 | 0 | 0 | 0 |
| IVS-8206 | 80 | 54 | 1.3 | 1.9 | 1.3 | 1.9 | 88 | 46 | 0 | 0 | 0 | 0 |
| NEC-8010 | 61 | 60 | 1.6 | 10.0 | 1.2 | 7.9 | 71 | 87 | 0 | 6.9 | 0 | 3.7 |
| NEC-8121 | 55 | 53 | 12.7 | 3.8 | 10.0 | 3.8 | 88 | 87 | 11.4 | 0 | 4.8 | 0 |
| NEC-8127 | 53 | 61 | 0 | 1.6 | 0 | 1.6 | 64 | 113 | 0 | 0 | 0 | 0 |
| NEC-8178 | 61 | 59 | 14.8 | 13.6 | 10.7 | 12.7 | 110 | 117 | 10.9 | 0 | 4.8 | 0 |
| NEC-8187 | 61 | 54 | 9.8 | 3.7 | 4.9 | 3.7 | 110 | 68 | 6.4 | 0 | 2.7 | 0 |
| NELC-8010 | 50 | 48 | 12 | 4.2 | 9.5 | 1.6 | 95 | 102 | 0 | 0 | 0 | 0 |
| NELC-8124 | 58 | 60 | 12.1 | 5.0 | 7.8 | 4.2 | 70 | 43 | 0 | 0 | 0 | 0 |
| NELC-8127 | 54 | 53 | 14.8 | 5.7 | 12.0 | 5.7 | 85 | 108 | 0 | 0 | 0 | 0 |
| NELC-8156 | 56 | 51 | 0 | 3.9 | 0 | 2.0 | 87 | 109 | 0 | 0 | 0 | 0 |
| NELC-8221 | 43 | 50 | 6.9 | 4.0 | 4.1 | 2.0 | 63 | 88 | 0 | 0 | 0 | 0 |
| SC ₁ -8003 | 51 | 50 | 3.9 | 2.0 | 2.9 | 2.0 | 55 | 52 | 0 | 0 | 0 | 0 |
| SC ₁ -8014 | 55 | 59 | 0 | 5.1 | 0 | 3.4 | 47 | 51 | 6.4 | 0 | 3.2 | 0 |
| SC ₁ -8082 | 49 | 46 | 0 | 4.3 | 0 | 3.3 | 65 | 45 | 7.7 | 0 | 3.8 | 0 |
| SC ₁ -8129 | 52 | 54 | 1.9 | 0 | 1.9 | 0 | 68 | 102 | 0 | 0 | 0 | 0 |
| SC ₁ -8155 | 44 | 54 | 6.8 | 5.6 | 5.7 | 3.7 | 47 | 98 | 0 | 9.2 | 0 | 4.6 |
| MC-8044 | 50 | 64 | 12 | 10.9 | 11 | 7.8 | 98 | 51 | 12.2 | 0 | 5.9 | 0 |
| MC-8055 | 54 | 52 | 5.6 | 3.8 | 4.2 | 2.9 | 98 | 80 | 0 | 0 | 0 | 0 |

Table 2. contd

| Entry | ICRISAT CENTER | | | | | | HISSAR | | | | | | | |
|--------------------------------------|----------------|-----|----------------|------|----------|------|--------------|-----|----------------|------|----------|------|----|------|
| | Total plants | | Inci- dence | | Severity | | Total plants | | Inci- dence | | Severity | | | |
| | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 | R-1 | R-2 | | |
| MC-8080 | 55 | 62 | 0 | 1.6 | 0 | 1.6 | 70 | 67 | 0 | 0 | 0 | 0 | | |
| MC-8151 | 36 | 53 | 5.6 | 1.9 | 4.2 | 0.9 | 77 | 92 | 0 | 0 | 0 | 0 | | |
| MC-8196 | 37 | 39 | 13.5 | 5.1 | 10.1 | 3.8 | 5 | 63 | 0 | 6.5 | 0 | 2.8 | | |
| E298-2-4 | 68 | 48 | 1.5 | 4.2 | 0.4 | 3.1 | 91 | 59 | 0 | 0 | 0 | 0 | | |
| E298-2-1-8 | 47 | 44 | 0 | 0 | 0 | 0 | 41 | 58 | 0 | 0 | 0 | 0 | | |
| ML 7903 | 41 | 49 | 9.8 | 3.0 | 8.5 | 1.0 | 23 | 82 | 0 | 0 | 0 | 0 | | |
| F4-FC-1474- 2-2-2 | 53 | 58 | 16.9 | 0 | 15.1 | 0 | 28 | 58 | 0 | 0 | 0 | 0 | | |
| ML-7901 | 53 | 49 | 13.2 | 14.3 | 10.8 | 11.7 | 84 | 37 | 35.7 | 0 | 18.8 | 0 | | |
| 700043 | 37 | 44 | 10.8 | 0 | 8.8 | 0 | 35 | 78 | 0 | 0 | 0 | 0 | | |
| 700780 | 63 | 40 | 0 | 0 | 0 | 0 | 102 | 14 | 3.9 | 0 | 2.2 | 0 | | |
| 700512 | 59 | 50 | 10.2 | 0 | 5.9 | 0 | 91 | 77 | 0 | 0 | 0 | 0 | | |
| SDN 617 | 49 | 55 | 4.1 | 1.8 | 3.1 | 1.8 | 81 | 102 | 0 | 0 | 0 | 0 | | |
| 700638 | 63 | 71 | 9.5 | 5.6 | 7.9 | 3.2 | 74 | 108 | 8.1 | 0 | 4.4 | 0 | | |
| 700563 | 50 | 55 | 20.0 | 12.7 | 18.0 | 8.2 | 47 | 127 | 0 | 0 | 0 | 0 | | |
| J-6 | 47 | 48 | 8.5 | 10.4 | 5.3 | 6.3 | 84 | 56 | 0 | 0 | 0 | 0 | | |
| 700190 | 44 | 59 | 0 | 0 | 0 | 0 | 68 | 95 | 13.2 | 0 | 5.9 | 0 | | |
| J-18-1 | 54 | 58 | 22.2 | 12.1 | 19.9 | 9.5 | 49 | 58 | 16.3 | 0 | 8.7 | 0 | | |
| J-265-2 | 52 | 43 | 40.4 | 16.3 | 40.4 | 12.8 | 75 | 83 | 24 | 0 | 15.3 | 0 | | |
| 700481 | 56 | 60 | 7.1 | 11.7 | 5.8 | 10.8 | 57 | 68 | 0 | 0 | 0 | 0 | | |
| J-235 | 52 | 59 | 5.8 | 15.3 | 2.4 | 11.9 | 108 | 102 | 32.4 | 0 | 17.4 | 0 | | |
| 700726 | 57 | 51 | 1.8 | 11.8 | 1.8 | 4.9 | 69 | 58 | 0 | 0 | 0 | 0 | | |
| J-78 | 61 | 55 | 4.9 | 20.0 | 4.1 | 17.3 | 43 | 57 | 0 | 0 | 0 | 0 | | |
| J-87-1 | 55 | 44 | 10.9 | 20.5 | 6.4 | 18.2 | 57 | 48 | 0 | 0 | 0 | 0 | | |
| 700526 | 39 | 65 | 12.8 | 15.4 | 9.0 | 14.6 | 63 | 175 | 4.8 | 0 | 3.6 | 0 | | |
| 700283 | 55 | 42 | 7.3 | 2.4 | 4.1 | 2.4 | 91 | 98 | 16.5 | 0 | 9.1 | 0 | | |
| J-50-1 | 49 | 73 | 6.1 | 19.2 | 5.1 | 14.0 | 92 | 76 | 5.4 | 9.2 | 4.3 | 5.3 | | |
| Local sus- ceptible ^{a/} | 41 | 96 | 3 | 85.1 | 73.4 | 79.0 | 68.3 | 45 | 76 | 62.7 | 93.1 | 94.2 | 85 | 85.9 |

^{a/} Mean of 15 in each replication

Table 3. Percent downy mildew severity in 150 entries at four locations in 1979 PRE-IPMDHM compared with severity of local susceptibles and location mean for all these entries.

| Entry | Samaru | Kambo- inse | ICRISAT | Hissar | Mean |
|---------------|--------|----------------|---------|--------|------|
| E298-2-1-8 | 1.6 | 2.1 | 0 | 0 | 0.9 |
| WC-8220 | 4.3 | 1.7 | 0 | 0 | 1.5 |
| 700512 | 1.9 | 1.4 | 3 | 0 | 1.6 |
| EC (S4)-10-4 | 7.6 | 0.3 | 0.5 | 0 | 2.1 |
| 700633 | 5.6 | 2.8 | 1.2 | 0 | 2.4 |
| 700792 | 7.5 | 1.9 | 1.3 | 0 | 2.7 |
| J-215-1 | 6.5 | 2.3 | 2.2 | 0 | 2.7 |
| J 92-1 | 6.3 | 3.6 | 1.1 | 0 | 2.7 |
| IVS-8172 | 7.9 | 2.6 | 0.8 | 0 | 2.8 |
| 700590 | 11.1 | 0 | 0.9 | 0 | 3 |
| 700706 | 5.8 | 5.1 | 1.2 | 0 | 3 |
| 700546 | 7.7 | 2.4 | 2 | 0 | 3 |
| 700780 | 11.6 | 0 | 0 | 1 1 | 3.2 |
| NELC-8010 | 5.8 | 1.8 | 5.5 | 0 | 3.3 |
| 700619 | 8.1 | 5.1 | 0.9 | 0 | 3.5 |
| 700583 | 14.1 | 0 | 0.6 | 0 | 3.7 |
| WC-8082 | 14.1 | 0.4 | 0.9 | 0 | 3.8 |
| 700537 | 13.4 | 2.3 | 0 | 0 | 3.9 |
| MC-8080 | 10.9 | 4.4 | 0.8 | 0 | 4 |
| SDN-714 | 8.4 | 8.1 | 0 | 0 | 4.1 |
| 700561 | 14.6 | 0 | 2.1 | 0 | 4.2 |
| 700599 | 12.9 | 2.3 | 2.5 | 0 | 4.4 |
| IVS-P77 | 10.1 | 6.1 | 0.5 | 1 4 | 4.5 |
| MC-8055 | 11.6 | 3.2 | 3.5 | 0 | 4.6 |
| 700335 | 11.5 | 4.4 | 2.6 | 0 | 4.6 |
| 700797 | 18.6 | 0 | 0 | 0 | 4.7 |
| NELC-8124 | 12.8 | 0 | 6 | 0 | 4.7 |
| 700687 | 11.4 | 6.4 | 0.7 | 0 7 | 4.8 |
| 700179 | 14.6 | 1.3 | 3.8 | 0 | 4.9 |
| NELC-8156 | 13.9 | 5 | 1 | 0 | 5 |
| 700781 | 18.3 | 1 | 0.7 | 0 | 5 |
| 700770 | 14.3 | 4.4 | 2 | 0 | 5.2 |
| 700278 | 19.6 | 1.2 | 0 | 0 | 5.2 |
| VS-8038 | 10.1 | 6.4 | 4.6 | 0 | 5.3 |
| 700190 | 18.2 | 0 | 0 | 2 9 | 5.3 |
| 700724 | 18 | 0 | 3.3 | 0 | 5.3 |
| 700283 | 13.5 | 0 | 3.2 | 4 5 | 5.3 |
| 700560 | 14.2 | 1 | 6.4 | 0 | 5.4 |
| 700349 | 13.9 | 5.9 | 2.3 | 0 | 5.5 |
| 700487 | 19.6 | 1.2 | 1.4 | 0 | 5.6 |
| 700479 | 19.1 | 0.9 | 2.4 | 0 | 5.6 |
| 700711 | 8.2 | 12.1 | 2.9 | 0 | 5.8 |
| R-238-1-2-1 | 12.5 | 9.2 | 1.7 | 0 | 5.8 |
| NEC-8127 | 15.7 | 7.8 | 0.8 | 0 | 6.1 |
| IVS-8093 | 8.9 | 14.7 | 0.8 | 0 | 6.1 |
| EC (S4)-211-1 | 17.4 | 1.6 | 5.9 | 0 | 6.2 |

Table 3. contd.

| Entry | Samaru | Kambo- inse | ICRISAT | Hissar | Mean |
|--------------------|--------|----------------|---------|--------|------|
| SCI-8014 | 11.3 | 10.4 | 1.7 | 1.6 | 6.2 |
| EC (S4)-86-4 | 14.9 | 7.1 | 1.5 | 1.5 | 6.2 |
| 700646 | 5.4 | 15.1 | 4.9 | 0 | 6.3 |
| 700158 | 25.2 | 1.1 | 0.4 | 0 | 6.7 |
| MC-8196 | 13.6 | 4.8 | 7 | 1.4 | 6.7 |
| WC-8015 | 11.2 | 7.2 | 3.3 | 5.2 | 6.7 |
| R-58-8-3-1 | 17.0 | 4.4 | 1.4 | 4.8 | 6.9 |
| MC-8151 | 15.4 | 9.8 | 2.6 | 0 | 6.9 |
| 700486 | 14.2 | 12.7 | 0.9 | 0 | 6.9 |
| R-303-5-4-4 | 11.0 | 1.7 | 15.5 | 0 | 7.0 |
| 700787 | 17.8 | 6.9 | 4.1 | 0 | 7.2 |
| 700576 | 6.7 | 4.2 | 18.1 | 0 | 7.2 |
| 700612 | 16.8 | 7.6 | 2.8 | 1.9 | 7.3 |
| R-203-4-3-2 | 19.1 | 3.5 | 4 | 2.5 | 7.3 |
| R-310-4-3-3 | 7 | 0 | 22.1 | 0 | 7.3 |
| 700490 | 17.2 | 11.9 | 0.3 | 0 | 7.3 |
| WC-8129 | 22.6 | 5.1 | 1.8 | 0 | 7.4 |
| 700489 | 25.5 | 3.7 | 0.5 | 0 | 7.4 |
| 700491 | 19.9 | 6.4 | 3.5 | 0 | 7.5 |
| R-238-1-1-5 | 15.7 | 0 | 1 | 13.2 | 7.5 |
| R-238-1-2-2 | 9.0 | 21.3 | 0 | 0 | 7.6 |
| IVS-8178 | 19.3 | 5.4 | 6.4 | 0 | 7.8 |
| 700568 | 21.9 | 7.8 | 1.6 | 0 | 7.8 |
| 700482 | 24.4 | 4.3 | 0.4 | 2.4 | 7.9 |
| NEC-8121 | 7.0 | 15.5 | 6.9 | 2.4 | 8 |
| SDN 617 | 29.5 | 0 | 2.4 | 0 | 8 |
| WC-B77 | 16.1 | 15 | 1.2 | 0 | 8.1 |
| F4-FC-1474-2-2-2 | 12.4 | 12.8 | 7.5 | 0 | 8.2 |
| WC-8189 | 19.7 | 8.1 | 1.9 | 3.2 | 8.2 |
| 700572 | 14.0 | 10.4 | 3.7 | 4.9 | 8.3 |
| 700622 | 22.8 | 2.6 | 1.7 | 6.0 | 8.3 |
| ML 7903 | 23.2 | 5.4 | 4.8 | 0 | 8.3 |
| R-203-4-1-1 | 30.1 | 1.5 | 1.9 | 0 | 8.4 |
| J 102-SB | 16.4 | 12.4 | 4.2 | 0.7 | 8.4 |
| SCI-8082 | 19.8 | 10.4 | 1.6 | 1.9 | 8.4 |
| J-260-2 | 21.5 | 11.2 | 1.2 | 0 | 8.5 |
| SCI-8129 | 25.7 | 7.6 | 1.0 | 0 | 8.6 |
| 700688 | 23.4 | 10.6 | 0.8 | 0 | 8.7 |
| SDN 720-1 | 23.9 | 10.6 | 0.7 | 0 | 8.8 |
| J-76 | 13.4 | 9.7 | 12.2 | 0 | 8.8 |
| 700593 | 5.4 | 27.8 | 2.6 | 0 | 9.0 |
| R-238-1-1-2 | 16.5 | 19.9 | 0 | 0 | 9.1 |
| R-203-4-3-1 | 33.1 | 2.1 | 1.3 | 0 | 9.1 |
| J-262 | 18.6 | 5.1 | 12.8 | 1.4 | 9.5 |
| MC-K77 | 12.8 | 18.2 | 3.4 | 3.9 | 9.6 |
| WC-8097 | 30.2 | 3.3 | 5.0 | 0 | 9.6 |
| IVS-8088 | 19.2 | 18.1 | 0 | 2.1 | 9.9 |
| 700549 | 8.9 | 25.7 | 5.1 | 0 | 9.9 |
| J 1644 x 3/4 S6-12 | 13.1 | 21.8 | 5.2 | 0 | 10.0 |
| 700638 | 13.0 | 19.7 | 5.6 | 2.2 | 10.1 |
| J 78-1 | 24.3 | 11.6 | 3.0 | 1.6 | 10.1 |
| 700596 | 13.2 | 27.4 | 0.8 | 0 | 10.4 |
| J-64 | 26.4 | 6.7 | 8.5 | 0 | 10.4 |
| J-85-1 | 13.5 | 24.9 | 0.2 | 3.9 | 10.7 |

Table 3. contd.

| Entry | Samaru | Kambo- inse | ICRISAT | Hissar | Mean |
|--------------------------------|--------|----------------|---------|--------|------|
| J-87-1 | 10.5 | 20.3 | 12.3 | 0 | 10.8 |
| EC (S4)-129-6 | 19.9 | 20.9 | 3.8 | 0 | 11.2 |
| 700526 | 22.4 | 8.9 | 11.8 | 1.8 | 11.2 |
| J-238 | 39.6 | 5.8 | 0 | 0 | 11.3 |
| J-234-1 | 24.3 | 14.9 | 3.2 | 3.1 | 11.4 |
| 3/4 HK 128-1 | 33.4 | 12.2 | 0 | 0 | 11.4 |
| 700556 | 29.5 | 15.9 | 0.4 | 0 | 11.5 |
| 700563 | 24.6 | 8.8 | 13.1 | 0 | 11.6 |
| MC-8044 | 18.6 | 15.7 | 9.4 | 2.9 | 11.7 |
| 700481 | 25.9 | 12.7 | 8.3 | 0 | 11.7 |
| 700043 | 32.2 | 10.6 | 4.4 | 0 | 11.8 |
| R-203-4-1-3 | 44.8 | 2.3 | 0.2 | 0 | 11.8 |
| J-163-1 | 20.9 | 23.9 | 2.6 | 0 | 11.8 |
| 3/4 EB 171-2 | 21.5 | 26 | 0 | 0 | 11.9 |
| J-201-1 | 15.3 | 10 | 5.7 | 19.9 | 12.7 |
| J-52-SB | 22.4 | 30.6 | 0.7 | 0 | 13.4 |
| IVS-8206 | 24.1 | 28 | 1.6 | 0 | 13.4 |
| NELC-8127 | 27.3 | 18 | 8.8 | 0 | 13.5 |
| 700647 | 18.5 | 10.9 | 5.6 | 19.7 | 13.7 |
| 700726 | 47.8 | 4.6 | 3.3 | 0 | 13.9 |
| ML-7901 | 21.4 | 13.7 | 11.3 | 9.4 | 13.9 |
| J-150-1 | 48.8 | 0 | 7.1 | 0 | 14 |
| EC (S4)-177-1 | 3.9 | 38.6 | 13.7 | 0 | 14.1 |
| J 1644 x 3/4 S6-3 | 15.2 | 39.1 | 2.3 | 0 | 14.2 |
| J-18-1 | 15.5 | 22.6 | 14.7 | 4.3 | 14.3 |
| 700254 | 29.3 | 15.2 | 9.4 | 4.2 | 14.5 |
| J-6 | 26.9 | 27.3 | 5.8 | 0 | 15 |
| NEC-8010 | 50 | 4.1 | 4.6 | 1.9 | 15.1 |
| J-265-2 | 1.6 | 25.1 | 26.6 | 7.7 | 15.2 |
| 700255 | 24.4 | 17.4 | 16.7 | 5.1 | 15.9 |
| NEC-8178 | 15.3 | 36.2 | 11.7 | 2.4 | 16.4 |
| E298-2-4 | 63 | 3.9 | 1.7 | 0 | 17.1 |
| J-264 | 47.9 | 13.9 | 8.3 | 0 | 17.5 |
| EC (S4)-177-5 | 28.8 | 41.8 | 0 | 0 | 17.6 |
| 700742 | 31.7 | 39.9 | 0.7 | 0 | 18.1 |
| J-78 | 35.9 | 26.9 | 10.7 | 0 | 18.4 |
| NEC-8187 | 29.3 | 39.2 | 4.3 | 1.4 | 18.5 |
| J-192-1 | 43.4 | 16.9 | 18.6 | 5.1 | 21 |
| J-71 | 27.1 | 52.2 | 8.5 | 0 | 22 |
| NELC-8221 | 32.8 | 60 | 3 | 0 | 24 |
| EC (S4)-29-4 | 52.2 | 36.9 | 5.2 | 2 | 24.1 |
| SCI-8003 | 25 | 72.2 | 2.5 | 0 | 24.9 |
| J-235 | 38.5 | 46.3 | 7.1 | 8.7 | 25.1 |
| J-50-1 | 33.3 | 55.1 | 9.6 | 4.8 | 25.7 |
| B282 x 3/4 EB-100-9 | 12.7 | 77.1 | 0 | 16.5 | 26.6 |
| J 83-1 | 75 | 18.7 | 15.7 | 1 | 27.6 |
| J-123-1 | 46 | 37.7 | 16.6 | 18.9 | 29.8 |
| EC (S4)-177-4 | 20.3 | 88.2 | 12.9 | 3 | 31.1 |
| SCI-8155 | 29.1 | 92.7 | 4.7 | 2.3 | 32.2 |
| EC (S4)-69-10 | 39.1 | 90.2 | 4 | 1.5 | 33.7 |
| Location mean for test entries | 19.8 | 14.2 | 4.3 | 1.3 | 10.0 |
| Local susceptible mean | 19.2 | 38.8 | 73.7 | 85.4 | 54.3 |

Table 4. Differential downy mildew reaction (% severity) of selected entries at ICRISAT Center, Kamboinse and Samaru in the 1979-PRE-IPMDMN.

| Entry | ICRISAT Center | Kamboinse | Samaru |
|----------------------|----------------|-----------|--------|
| R-310-4-3-3 | 22.1 | | |
| SC1-8155 | 4.7 | 92.7 | 29.1 |
| EC (S4)-69-10 | 4.0 | 90.2 | 39.1 |
| B-282 x 3/4 EB 100-9 | 0 | 77.1 | 12.7 |
| SC1-8003 | 2.5 | 72.2 | 25 |
| NELC 8221 | 3 | 60 | 32.8 |
| EC (S4)-177-5 | 0 | 41.8 | 28.8 |
| 700742 | <1 | 39.9 | 31.7 |
| J-52-SB | <1 | 30.6 | 22.4 |
| 3/4 EB-17 1-2 | 0 | 26 | 21.5 |
| J-83-1 | 15.7 | 18.7 | 75 |
| E -298-2-4 | 1.7 | 3.9 | 63 |
| NEC-8010 | 4.6 | 4.1 | 50 |
| J-150-1 | 7.1 | 0 | 48.8 |
| 700726 | 3.3 | 4.6 | 47.8 |
| R-203-4-1-3 | <1 | 2.3 | 44.8 |
| J-238 | 0 | 5.8 | 39.6 |
| 3/4 HK 128-1 | 0 | 12.2 | 33.4 |
| R-203-4-1-1 | 1.9 | 1.5 | 30.1 |
| 700556 | <1 | 15.9 | 29.5 |
| SC1-8129 | 1 | 7.6 | 25.7 |

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