

RP 01479

ICAR-ICRISAT  
PIGEONPEA PHYTOPHTHORA BLIGHT NURSERY  
1982-83

msf 82/1000  
Indian Council of Agricultural Research, New Delhi, India  
and  
International Crops Research Institute for the Semi-Arid Tropics  
ICRISAT Patancheru P.O., Andhra Pradesh 502 324, India

The ICAR-ICRISAT Pigeonpea Phytophthora Blight Nursery was proposed and organized by the participants at the All India Kharif Pulses Workshop held under the auspices of the Indian Council of Agricultural Research (ICAR) at Jabalpur in April 1982. The objectives of the ICAR-ICRISAT Pigeonpea Phytophthora Blight Nursery (IIPBN) are to:

1. Identify cultivars, germplasm accessions and breeding lines resistant to pigeonpea Phytophthora blight (P. drechsleri f. sp. cajani).
2. Determine the stability of different genotypes.
3. Detect new races of the blight pathogen.

This is the first year of operating the IIPBN. Ninety-eight test entries and one blight susceptible cultivar (ICP-7119) have been included. These test entries were found promising at certain locations in the field/greenhouse screening. It will be interesting to see the performance of all these entries at different locations.

We are sending you three copies of the record book. Please send one copy directly to:

1. Dr. Satish Chandra  
Project Director  
IARI Regional Station  
Kanpur 208 024  
Uttar Pradesh
2. Dr. Y.L. Nene  
Principal Plant Pathologist and  
Leader  
Pulses Improvement Program  
ICRISAT  
Patancheru P.O.  
Andhra Pradesh 502 004

The third copy is for your own records. We sincerely appreciate your cooperation in conducting this trial. A report on the results of this trial will be prepared and presented at the annual workshop.

## NOTES

1. There is one packet for each entry and it will contain about 50 seeds.
2. One 5 m row will be a plot and will have 50 seeds. The pattern of sowing to be followed is given on Phytophthora Blight Incidence Data Sheet (SI No. 1 to 123).
3. For planting these entries, please select a plot (preferably low-lying one) where Phytophthora blight disease is most commonly seen every year.
4. A blight susceptible cultivar, ICP-7119 (HY-3C) is included in every fifth row (after 4 test entries) to monitor the blight incidence across the plot and to allow comparison of test entries with susceptible cultivar.
5. Please follow all recommended agronomic practices and report them under "General Information".
6. We suggest a row spacing of 75 cm and plant spacing of 10 cm.
7. Please note that seedling emergence is to be recorded 10-15 days after sowing under the column "Emergence."

GENERAL INFORMATION

1. STATION NAME & LOCATION \_\_\_\_\_

2. COOPERATOR(S) \_\_\_\_\_

3. DATE OF PLANTING \_\_\_\_\_

4. HAS PLANTING BEEN EARLY/NORMAL/LATE? \_\_\_\_\_

5. SEASON'S RAINFALL (mm)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TEMP. MAX												
MIN.												

6. IRRIGATION (if given)  
State quantity & dates \_\_\_\_\_

7. FERTILIZER USED  
(Source & amount) \_\_\_\_\_

8. INSECT PROBLEMS \_\_\_\_\_

9. INSECTICIDES USED  
(Which & when) \_\_\_\_\_

10. OTHER NOTES \_\_\_\_\_

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<sup>a</sup>Data required from the month of sowing to the month of final observation only.

PHYTOPHTHORA BLIGHT INCIDENCE DATA<sup>c</sup>

Location \_\_\_\_\_

OBSERVATION RECORDED BY \_\_\_\_\_

St. No.	Entry No.	Emergence <sup>b</sup>	Number blighted	% Blight	Remarks
1	2	3	4	5	6
1.	ICP-7119				
2.	-28				
3.	-113				
4.	-231				
5.	-339				
6.	-7119				
7.	-580				
8.	-752				
9.	-913				
10.	-934				
11.	-7119				
12.	-1088				
13.	-1090				
14.	-1120				
15.	-1123				
16.	-7119				
17.	-1149				
18.	-1150				
19.	-1151				
20.	-1258				
21.	-7119				
22.	-1321				

PHYTOPHTHORA BLIGHT INCIDENCE DATA<sup>o</sup> Contd.

1	2	3	4	5	6
23.	ICP-1529				
24.	-1535				
25.	-1506				
26.	-7119				
27.	-1788				
28.	-1950				
29.	-2153				
30.	-2376				
31.	-7119				
32.	-2505				
33.	-2673				
34.	-2682				
35.	-2719				
36.	-7119				
37.	-2736				
38.	-2974				
39.	-3008				
40.	-3259				
41.	-7119				
42.	-3367				
43.	-3741				
44.	-3753				
45.	-3840				
46.	-7119				
47.	-3861				

PHYTOPHTHORA BLIGHT INCIDENCE DATA<sup>a</sup> Contd.

1	2	3	4	5	6
48.	ICP-3867				
49.	-3868				
50.	-3891				
51.	-7119				
52.	-3899				
53.	-3937				
54.	-3945				
55.	-4135				
56.	-7119				
57.	-4141				
58.	-4168				
59.	-4699				
60.	-4752				
61.	-7119				
62.	-4866				
63.	-4882				
64.	-5450				
65.	-5656				
66.	-7119				
67.	-5860				
68.	-6865				
69.	-6952				
70.	-6953				
71.	-7119				

PHYTOPHTHORA BLIGHT INCIDENCE DATA<sup>a</sup> Contd

1	2	3	4	5	6
72.	ICP-6956				
73.	-6974				
74.	-7057				
75.	-7065				
76.	-7119				
77.	-7151				
78.	-7182				
79.	-7185				
80.	-7200				
81.	-7119				
82.	-7232				
83.	-7269				
84.	-7273				
85.	-7533				
86.	-7119				
87.	-7624				
88.	-7657				
89.	-7701				
90.	-7754				
91.	-7119				
92.	-7795				
93.	-7798				
94.	-7810				
95.	-7837				



PHYTOPHTHORA BLIGHT INCIDENCE DATA<sup>a</sup> Contd.

1	2	3	4	5	6
96.	ICP-7119				
97.	-7910				
96.	-8103				
99.	-8104				
100	-8087				
101.	-7119				
102	-8131				
103.	-8132				
104.	-8141				
105.	-8214				
106.	-7119				
107.	-8236				
108.	-8248				
109	-8258				
110.	-8282				
111.	-7119				
112.	-8287				
113.	-8289				
114.	-8328				
115.	-8332				
116.	-7119				
117.	-8466				
118.	AW-1 (KPR)				

PHYTOPHTHORA BLIGHT INCIDENCE DATA<sup>a</sup> Contd.

1	2	3	4	5	6
119.	RL-2 (KPR)				
120.	KPBR-80-2				
121.	ICP-7119				
122.	KPBR-80-3				
123.	KPBR-80-1-4				

<sup>a</sup> Give the actual number of plants blighted. Only final counts (3 months after planting) are to be recorded on these sheets.

<sup>b</sup> Emergence of seedlings to be recorded 10-15 days after sowing.

*ARISAJ*  
RP 01479