

Brown Plant Hopper Outbreak in Odisha in Kharif' 2017 and its Management Strategy



Prepared by:

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26018) is ready for use and also having resistant gene Bph 31. Some of them are- CR 3006-8-2, CR2711-149, CR2711-114, CR 2711-139, CR 2712-2, CR 2712-229, CR 3005-77-2, CR 3005-230-5. These can be tested in the hot spot condition. Two resistant donors, Salkathi (Resistant QTL identified) and Dhobanumberi (Bph 31) from Odisha has been utilized for developing the resistant genotypes.

4. Action taken on the recent BPH out break in Odisha:

4.1. Immediately after the insect attack reported, the Director NRRI deputed a scientist team comprising of Dr. (Mrs.) Mayabini Jena, Entomologist & HOD, Crop Protection, Dr. Guru P. Pandi (Entomologist) and Dr. Raghu, S. (Pathologist) to visit the affected area during 4th to 6th November to find the cause of such outbreak and also the solution. The team visited some of the hotspots of Bargarh and Ganjam district along with the DDA and other agricultural officials/workers of the concerned districts. The locations were Saranda, Barpalli block of Bargarh district and Kukudakhundi, Digapahandi and Dharakot block of Ganjam district. After completion of visit, they have submitted their report to the Director, ICAR-NRRI, Cuttack

4.2. The Director Dr. H. Pathak has also attended meetings under the chairmanship of Mr. R. Balakrishnan, Additional Chief Secretary and Development commissioner, Govt. of Odisha on 6th November, 2017 and on 7th November, 2017 at Odisha Secretariat accompanied by Dr. S.D. Mohapatra, Pr. Scientist, Entomology and discussed on "Confidence Building measures for farmers of the pest affected areas" through video conferencing with Collectors and Agriculture officials of 16 districts and a recommendation in the form of a leaflet has been developed jointly by Department of Agriculture and Farmers Empowerment, Odisha, OUAT, Bhubaneswar and NRRI, Cuttack for the problem.

4.3. Insects has been collected from the hotspot area and brought to NRRI by the scientists to study the virulence against varieties and insecticides at NRRI net house.

5. Visit of NRRI scientists to the pest affected areas

5.1. Places visited

- **Burgarh District : Blocks** - Saranda, Barpalli (N 21°23.072; E 083°48.951, N 21°14.292; E 083°34.723 and N 21°06.849; E 083°39.828)
- Farmers interacted with: Ajohya Mohapatra, Syam Kumar Pradhan, Achyatanand Parida, Gopal Charan Pradhan, Lalit Mohapatra, Kuber Pradhan, Upendra Bag, P K Sahoo, SyamaSahoo, Suraj Majhi and many others.
- **Ganjam District : Blocks** - Kukudakhundi (vill. Tikarapada), Digapahandi (N 19°23.258; E 084°41.619 and N 19°22.478; E 084°33.721)
- Farmers interacted with: Somnath Sethi, Jogendra Patra, Sasanka Lenka, Subrat Kumar Panigrahi, Kamena Jena, Bhima Das, Sahadev Bosoi, Pari Das, Surendra Behera and many others.