

AICRP Weed Control

A Profile

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Publications



AICRP-WEED CONTROL CENTRES



- 1 CSKHPKV, Pantnagar
- 2 TAU, Ludhiana
- 3 CCSRAU, Hisar
- 4 MDUAST, Faizabad
- 5 RAU, Bikaner
- 6 NDUAUT, Faizabad
- 7 CSUAST, Kanpur
- 8 JKVV, Raipur
- 9 BAU, Pusa
- 10 KAU, Raipur
- 11 VI, Krishnagiri
- 12 AAU, Amritsar
- 13 JKVV, Raipur
- 14 HAU, Mysore
- 15 DUAT, Bhubaneswar
- 16 AAU, Jorhat
- 17 MAU, Pantnagar
- 18 DBSKV, Dapoli
- 19 AMRNU, Hyderabad
- 20 UAS, Dharwad
- 21 TMAU, Cuttack
- 22 KAU, Tinsukia
- 23 UAS, Bangalore

ALL INDIA COORDINATED RESEARCH PROGRAMME ON WEED CONTROL



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Weeds in general account to 30 % loss in agricultural productivity in India; they have detrimental effect on biodiversity, environment and well-being of human beings, livestock and aquatic life. Research on the status of different kinds of weeds in varied agro-climatic conditions and their control measures in cropped, non-cropped areas and aquatic bodies is very important to boost our agricultural production and to improve upon the quality of life. The weed research programme in the country started in 1970 with the establishment of All India Coordinated Research Programme on 'Weed Control' in collaboration with the United States Department of Agriculture at IISc Bangalore. The programme has been further strengthened in different phases by setting up of coordinating Centres. At present, 22 Centres under AICRP - Weed Control are functioning at various SARDTs. The coordinating unit of the programme was established initially with the Central Rice Research Institute, Cuttack, which was later shifted to Jhansi after the establishment of National Research Centre for Weed Science in 1989. The researches on weed control are made available to the respective state agencies for their popularization amongst the farming community.

Mandate

- To conduct coordinated trials for developing location-specific weed management technology.
- To demonstrate the weed management technologies through on-farm trials.

Objectives

- Survey of weeds in, mapping their distribution, ecology and habitat.
- Identification of new herbicides and working out weed competition thresholds level.
- To work out effective and economical weed control schedule for field and plantation crops and in different aquaculture conditions.
- Studies on biology and control of problem weeds including aquatic and parasitic weeds.
- To study the long-term residual and cumulative effects if any, of herbicides.
- To standardize bioassay techniques for estimating herbicide residues in soil, crop and water systems.
- Basic research at district centres having adequate laboratory facilities for enabling support to adaptive research.
- Testing of available tools/ implements for weed management under varied cropping systems.
- Training extension personnel in weed management and on-farm research.

Human Resource and financial outlay in X plan

The AICRP-WC has a sanctioned strength of 72 scientists, 64 technical, 22 administrative and 32 supporting staff. The total financial outlay approved for X plan period is 1696.68 lakhs.

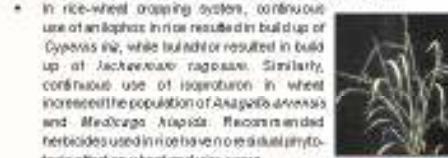
Salient Achievements

- Survey on district-wise distribution of weeds has been completed and published. Major recommendations for weed control in cropped and non-cropped areas, local names of weeds and status of invasive weeds in India have been compiled and published. Weed atlas, weed identification manuals are in the process of publication.
- On the basis of extensive physiognostic survey of weeds in different crops and cropping systems, non-cropped areas, wetland and water bodies,



Salvinia natans

Convolvulus arvensis in wheat and other winter crops. In aquatic system, Eichornia crassipes, Pistia stratiotes, Ipomoea carnea, Cyperus rotundus, Monochoria vaginalis in rice and other rainy season crops. Phalaris minor, Amaranthus viridis, Chenopodium album, Poa annua, Eleocharis acicularis, Cyperus rotundus, Cyperus difformis and in non-cropped areas. Paspalum dilatatum, Cyathula uncinulata, Cyperus rotundus and in non-cropped areas. It have been identified as important weed pests.



Achyranthes bidentata

In rice-wheat cropping system, continuous use of ametryn in rice resulted in build up of Cyperus rotundus, while imazethopan resulted in build up of Achyranthes bidentata. Similarly, continuous use of isoproturon in wheat increased the population of Acalypha anomala and Madaraga amara. Recommended herbicides used in rice have no residual phytotoxic effect on wheat and vice versa.



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