

AICRP - Weed Management

MANDATE

- To conduct location-specific research for developing appropriate weed management technologies
- To demonstrate the weed management technologies through on-farm adaptive trials.

SIGNIFICANT ACHIEVEMENTS

- Major weeds of crops and cropping systems have been identified. District-wise distribution of weeds in India has been documented and published.
- Weed shift due to weed control practices has been monitored and appropriate modifications in management strategy have been devised.
- Location-specific weed management technologies have been developed which helped to increase the productivity and profitability of farming community.
- Herbicide resistance in *Phalaris minor* to isoproturon was established in northern parts of India, and new herbicides for its control have been recommended.
- Recommendations for weed control in crops, cropping systems, non-cropped areas, grasslands, invasive weeds and aquatic weeds have been made and are being regularly updated.
- Continuous monitoring of herbicide residues in soil, water, and food chain generated useful data for safe use of herbicides.
- Weed management technologies in prominent crops and cropping systems has been published.
- Five best technologies developed by each centres were published in a bulletin on “Technologies on Weed Management” during 2015.
- Awareness was created among general public and planners about the losses caused by weeds and their management strategies. Programmes on creating awareness on *Parthenium* menace have been very much successful in public.

REGULAR CENTES OF AICRP-WM

Sl. No.	Centre	Date of start
1.	UAS, Bengaluru	April, 1978
2.	GBPUAT, Pantnagar	April, 1978

3.	AAU, Anand	April, 1982
4.	TNAU, Coimbatore	January, 1982
5.	CSKHPKV, Palampur	April, 1983
6.	OUAT, Bhubaneshwar	April, 1984
7.	PAU, Ludhiana	August, 1984
8.	KAU, Thrissur	October, 1985
9.	PJTSAU, Hyderabad	March, 1986
10.	CCSHAU, Hisar	April, 1986
11.	NDUAT, Faizabad	April, 1987
12.	BAU, Ranchi	April, 1987
13.	AAU, Jorhat	December, 1987
14.	RAU, Pusa	November, 1993
15.	IGKV, Raipur	April, 1995
16.	DBSKKV, Dapoli	May, 1996
17.	RVSKVV, Gwalior	May, 2000
18.	PDKV, Akola	April, 2015
19.	CAU, Pasighat	April, 2015
20.	UAS, Raichur	April, 2015
21.	MPUAT, Udaipur	April, 2015
22.	SKUAST, Jammu	April, 2015
23.	BCKV, Kalyani	Yet to start
Voluntary Centres		
1.	RBS College, Agra	2006
2.	SVBPUAT, Meerut	2009
3.	TNAU, Madurai	2010
4.	SKUAST, Kashmir	2013
5.	BAU, Sabour	2013
6.	PJNCA&RI, Karaikal	2013
7.	ICAR – CIARI, Port Blair	2015

FIVE BEST TECHNOLOGIES

- Integrated weed management in major crops, viz. rice, wheat, maize, soybean, sugarcane, cotton, jute, potato, onion and brinjal
- Post-emergence sprays of glyphosate at low dose for controlling *Orobanche* in mustard
- Weed wiper for controlling weedy rice in Kole lands
- Management of resistant biotypes of *Phalaris minor* with new herbicides/mixtures
- Grassy weed control in maize through new post-emergence herbicides

NEW INITIATIVES

- Reorganization of the research based emerging challenges and in tune with the Directorate programmes.
- Effective system of monitoring research and extension work has been developed through nomination of Nodal Officers for different themes / regions
- A major programme on weed management in conservation agriculture was taken up in diversified cropping systems
- Collaboration with AICRPs such as integrated farming systems, organic farming, dryland agriculture was initiated
- Compilation of the work done on long-term trials, herbicide residues, major weed species and improved technologies were undertaken
- Skill development of residue chemists and other newly-joined scientists on advances in weed management was taken up
- Evaluation of centres based on score card and 'Best Centre Award' were initiated
- Better performing centres were identified and provision for additional grants was made for tackling location-specific weed problems

COLLABORATIVE PARTNERS

AICRP-WM centres maintain effective linkages with other AICRPs located at the same university (IFS, Dryland agriculture, organic farming, pesticide residues, PDFSR, NBAIR, CIAE, IIPR, IGFRI, IVRI and all other related institutes as voluntary centres of DWR, SAUs, KVKs, State Department of Agriculture, herbicide industry, NGO etc.

FLAGSHIP PROGRAMMES

- Weed management under conservation agriculture systems in diversified cropping systems
- Biology and management of identified problem weeds at the state level

THRUST AREAS FOR XII PLAN

- Development of sustainable weed management practices in diversified cropping systems
- Crop-weed dynamics and management under the regime of climate change and herbicide resistance
- Biology and management of problematic weeds in cropped and non-cropped areas
- Monitoring, degradation and mitigation of herbicide residues and other pollutants in the environment
- On-farm research and impact assessment of weed management technologies

STAFF STRENGTH

	Sanctioned	Filled	Vacant	% vacant
Scientific	72	63	09	12
Technical	42	36	06	14
Steno/typist	22	13	09	40
Lab. Attendant	32	27	05	16
Total	168	139	29	17

QRT

Period: April 2006 to March 2012

Chairman: Dr. S.C. Modgal

Next QRT due for: April 2012 to March 2017

ANNUAL REVIEW MEETING

2016: Jain Irrigation Systems, Jalgaon, Maharashtra during 28-30 April, 2016.

PUBLICATIONS (2015-16)

No. of papers in NAAS rated journals:

- No. of papers with scores < 6 : 61
- No. of papers with scores > 6 : 10

FINANCIAL OUTLAY (PLAN ONLY)

(Rs in lakhs)

XI Plan (Actual utilization)	XII Plan	Last year budget (2015-16)		
		RE	Actual expenditure	% utilization
3548.8	6525.0	780.0	779.0	99.0