

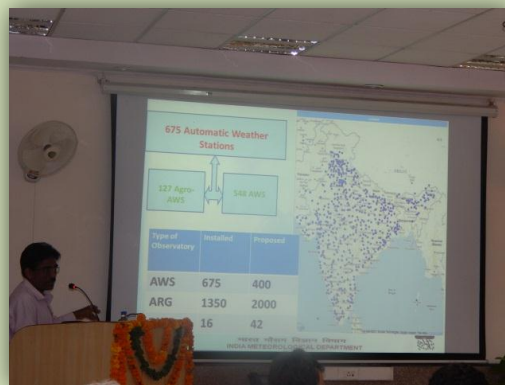
NATIONAL WORKSHOP ON “USE OF REMOTE SENSING TECHNOLOGY FOR CROP INSURANCE”

Date: 15th May, 2014 (Thursday)

Time: 0900 Hrs. to 1530 Hrs.

Venue: MNCFC, Nr. Krishi Vistar Sadan, Pusa Campus, New Delhi

- The National Workshop was organized by the Department of Agriculture & Cooperation at the Mahalanobis National Crop Forecast Centre, New Delhi.
- 47 participants from various organizations, such as DAC, State Agriculture Departments, ISRO, IMD, AIC, World Bank, DST, IASRI, NSSO, MNCFC, TNAU and 12 Insurance companies participated in the programme.
- There were two technical sessions (*Crop Insurance Programme of India & Remote Sensing Technology for Crop Insurance*) preceded by an Inaugural Session and followed by a Plenary Session. The Technical Programme is given in Annexure I.
- The Workshop also made recommendations for applications of the remote sensing technology for the crop yield estimation and crop insurance (Annexure II).



Annexure I

Technical Programme

Time	Event/Presentation	Speaker
0900-0930	Registration	
0930-1030	Inaugural Session	
	<ul style="list-style-type: none"> • Department of Agrl. & Coop. • Space Applications Centre (ISRO) 	<ul style="list-style-type: none"> Dr. Ashish K. Bhutani, JS(Credit) Dr. J. S. Parihar, Dy. Dir., SAC
1030-1045	Tea Break	
1045-1215	<p>Session I: Crop Insurance Programme of India Chair: Dr. Ashish K. Bhutani, JS(CC), DAC</p> <ul style="list-style-type: none"> • Role of AIC in Crop Insurance • Agriculture Insurance-Company's perspective • Crop Yield Estimation in India • Relevance of Small Area Estimation Technique in the Context of Crop Insurance • Weather Index Insurance • Use of Meteorological Data in Crop Insurance 	<ul style="list-style-type: none"> • Sh. P. J. Joseph, CMD, AIC • Sh. Rajesh Rai, VP, ICICI Lombard • Sh. A. K. Srivastava, NSSO • Dr. U. C. Sud, IASRI • Dr. K. N. Rao • Dr. K. K. Singh, IMD
1215-1345	<p>Session II: Remote Sensing Technology for Crop Insurance Chair: Sh. Sanjeev Gupta, JS (IT), DAC</p> <ul style="list-style-type: none"> • Remote Sensing and Crop Cutting Experiments: Options for the National Crop Insurance Program • RIICE programme • Temporal Crop Condition Assessment- To Aid in Crop Insurance • Geospatial Tools for CCE • Use of Remote Sensing for CCE Planning • Modifications In Crop Cutting Experiments For Yield Based Agriculture Insurance 	<ul style="list-style-type: none"> • Dr Daniel Clarke, World Bank • Mr. Manoj Yadav, GIZ • Sh. K. R. Manjunath, SAC • Dr. M. V. R. Seshasai, NRSC • Sh. S. Majhi, MNCFC • SkyMet
1345-1430	Lunch	
1430-1530	Plenary Session	
	<ul style="list-style-type: none"> • Discussion/Presentation by States • Finalization of Recommendation 	<ul style="list-style-type: none"> • States (Gujarat, Karnataka, Rajasthan, & West Bengal) • Panelists (Dr. A. K. Bhutani, Dr. J. S. Parihar & Dr. S. S. Ray)

Annexure II

National Workshop on “Remote Sensing Technology for Crop Insurance”

15th May, 2014

Mahalanobis National Crop Forecast Centre

Recommendations

1. Improving Sampling Strategy

- Need to reduce the sample size and simultaneously improve the accuracy by incorporating other data such as agricultural census data. (*Action – NSSO/IASRI*)
- NSSO jointly with IASRI would organize a one day training Programme for crop cutting experiments

2. Weather Based Indices

- There is a need to develop a composite Weather index which can be representative, stable and easily available. There is scope of including Remote Sensing based indices in developing the composite index (*Action – IMD*)

3. Remote sensing Technology for CCE & Crop Yield

- It has been shown that remote sensing data is very useful for assessing crop condition and generating sampling plan to improve CCE.
- It is planned that Crop cutting Experiments need to be carried out for Rice crop in the Kharif Season and Wheat crop in Rabi Season (2014-15) in the selected states (selected districts) using remote sensing based sampling. State governments and Insurance companies will carry out the CCE using GPS (*Action: SAC, MNCFC, Insurance Companies & State Govts.*)
- NRSC would generate the Android based Application for CCE and would provide support of Bhuvan platform for field data collection.
- Spatial yield model need to be developed by using weather, CCE and remote sensing data (*Action: SAC, IMD & MNCFC*)
- The pilot studies would be reviewed after crop seasons of 2014-15 and then the study can be extended to more major crops and states.

4. General

- All expenditure related to these pilot studies would be borne by the Credit Division of DAC.