



## Happenings at DSR, and AICSIP news

Serial No. 70

Hyderabad □ Solapur □ Warangal

July, 2009

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### Annual rabi sorghum review meet

The seventh annual rabi sorghum research planning meeting was held on July 24, 2009 at Centre on Rabi Sorghum (CRS), DSR, Solapur. The meeting was organized to



VII Rabi sorghum planning meeting at CRS, Solapur in progress

review the centre-wise progress in rabi sorghum research during 2008-09, finalization of rabi plan for 2009-10 and discussions on basic and strategic research on specific problems related rabi sorghum, AICSIP special sub projects, IPR issues, progress towards registration, BSP, seed multiplication, and others.

A total of 45 rabi sorghum scientists from Akola, Bijapur, Dharwad, Kovilpatti, Parbhani, Rahuri, Phaltan (NARI), Surat, Tandur and DSR – (Hyderabad & Solapur) participated in the meeting. The research work being carried at various AICSIP centres were reviewed and rabi plans for 2009-10 were

### समाचार सारांश

**रबी ज्वार की वार्षिक समीक्षा बैठक :** रबी ज्वार अनुसंधान की 7वीं वार्षिक योजना बैठक 24 जुलाई 2009 को ज्वा.अनु.नि. के रबी ज्वार केंद्र, सोलापुर में हुई। वर्ष 2008-09 के दौरान रबी ज्वार अनुसंधान की केंद्रवार प्रगति की समीक्षा, वर्ष 2009-10 हेतु रबी योजना को अंतिम रूप प्रदान करने तथा मौलिक व नैतिक अनुसंधान, रबी की समस्याओं, अ.भा.स.ज्वा.उ.प./विशिष्ट परियोजनाओं, बौद्धिक संपदा के अधिकार संबंधी मुद्दों, बीज वृद्धि इत्यादि पर चर्चा हेतु इस बैठक का आयोजन किया गया।

**पीसीएस मूल्य शृंखला के माध्यम से मोटे अनाज के खाद्य पदार्थों की मांग का निर्माण पर रा.कृ.न.प. उपपरियोजना के संघीय सलाहकार समिति की III बैठक :** आचार्य एन जी रंगा कृषि विश्वविद्यालय के द्वारा गृह विज्ञान महाविद्यालय, आचार्य एन जी रंगा कृषि वि.वि; हैदराबाद में 10 जुलाई 2009 को डॉ एन.जी.पी. राव की अध्यक्षता में संघीय सलाहकार समिति की III बैठक का आयोजन किया गया। अपने प्रारंभिक उद्बोधन में अध्यक्ष महोदय ने दोहराया कि उत्पाद विकास के माध्यम से मोटे अनाज की माँग निर्माणार्थ संघ के सभी भागीदारों में लक्ष्य समरूपता आवश्यक है। निदेशक, ज्वा.अनु.नि. ने कहा कि मोटे अनाज को स्वास्थ्यवर्धक खाद्य पदार्थ के रूप में पेश करने पर, उनकी माँग बढ़ सकती है।

**डी.बी.टी. समीक्षा बैठकें :** मोटे अनाज में सुधार हेतु जैव प्रौद्योगिकी यंत्रों का विकास तथा प्रयोग एवं चारा फसल सुधार हेतु जैव प्रौद्योगिकी प्रयोग नामक परियोजनाओं हेतु 13-14 जुलाई 2009 के दौरान ज्वार अनुसंधान निदेशालय, हैदराबाद में डी.बी.टी. समीक्षा बैठकों का आयोजन किया गया।

**जैवप्रौद्योगिकी मंच की गतिविधियाँ :** ज्वा.अनु.नि. के जैवप्रौद्योगिकी मंच ने जैवप्रौद्योगिकी क्षेत्र में नवीनतम विकास, संबंधित मुद्दों पर विचार-विमर्श हेतु चर्चा शृंखला का प्रारंभ किया है। इसके अंतर्गत विद्वज्जन जैवप्रौद्योगिकी से जुड़े भिन्न-भिन्न विषयों पर व्याख्यान प्रस्तुत करते हैं।

**ज्वा.अनु.नि. में कृ.अनु.वैज्ञानिकों के 86वें दल का दौरा :** भा.कृ.अनु.प. में नए भर्ती हुए फोर्कर्स के 86वें दल के 75 कृ.अनु.वैज्ञानिकों ने 29 जुलाई 2009 को ज्वा.अनु.नि. का दौरा किया। डॉ. एस वी राव, प्रधान वैज्ञानिक ने उन्हें संस्थान की गतिविधियों एवं अन्य परियोजनाओं के संबंध में संक्षिप्त जानकारी प्रदान की।

**ज्वार आटा तथा फुटेहरा (पॉप) के निर्यात हेतु कृ.प्र.खा.उ.नि.वि.प्रा. में ज्वा.अनु.नि. का पंजीकरण :** ज्वा.अनु.नि. द्वारा कृषि तथा प्रसंस्कृत खाद्य उत्पाद निर्यात विकास प्राधिकरण, हैदराबाद में ज्वार उत्पादों के पंजीकरण हेतु प्रक्रिया प्रारंभ की गई है।



**ज्वा.अनु.नि. में हिंदी कार्यशाला :** ज्वार अनुसंधान निदेशालय में 06 जुलाई 2009 को निदेशालय में कार्यरत प्रशासनिक अधिकारियों एवं कर्मचारियों के लिए एक दिवसीय हिंदी कार्यशाला का आयोजन किया गया ।

**तकनीकी कर्मचारियों हेतु प्रशिक्षण :** ज्वा.अनु.नि. ने आचार्य एन जी रंगा कृषि विश्वविद्यालय, हैदराबाद के संयुक्त तत्वावधान में ज्वा.अनु.नि.; हैदराबाद, रबी ज्वार केंद्र, सोलापुर, गैर-मौसमी पौधशाला, वरंगल में कार्यरत तकनीकी कर्मचारियों हेतु 6 - 10 जुलाई 2009 के दौरान एक प्रशिक्षण कार्यक्रम का आयोजन किया । कुल 28 स्टाफ सदस्यों ने उक्त कार्यक्रम में भाग लिया ।

**रुचिरा पेपर लि; काला अंब का दौरा :** सामान्यतया पैकिंग सामग्री में प्रयुक्त किए जाने वाले क्राफ्ट पेपर के विनिर्माण हेतु ज्वार भूसे के उपयोगार्थ कागज उद्योग के साथ प्रभावी संबंध की संभावनाओं का पता लगाने के उद्देश्य से डॉ. चारी अप्पाजी ने रुचिरा पेपर्स लि; काला अंब, जि. शिरपुर का दौरा किया ।

**मेलिंडा - गटेस फाउंडेशन सहयोगी परियोजना :** मेलिंडा - गटेस फाउंडेशन, सिट्टले, सं.रा.अ. द्वारा वित्त पोषित *हार्नेसिंग ऑपरचुनिटिज फॉर प्रोडक्टिविटी एनहेंसमेंट ऑफ सोरघम एंड मिल्लेट्स इन सब-साहरन आफ्रिका एंड साऊथ एशिया* नामक परियोजना पर संभव सहयोगार्थ चर्चा हेतु 30 जुलाई 2009 को इक्रिसेट से डॉ. टॉम हैस तथा डॉ. बी.वी.एस. रेड्डी ने ज्वा.अनु.नि. का दौरा किया ।

**लब्ध-प्रतिष्ठ आगंतुक :** श्री चार्ल्स ईई देवेनिश, अध्यक्ष, जिओमैसूर सर्विस लि; बेंगलूर तथा सुश्री रिचा, अनुसंधान प्रबंधक, बर्ड, अनुसंधान आधारित एक परामर्श समूह, नई दिल्ली ने मीठी ज्वार संबंधित विषयों पर चर्चा हेतु क्रमशः 25 जुलाई 2009 तथा 28 जुलाई 2009 को संस्थान का दौरा किया ।

**व्याख्यान :** डॉ. विलास ए टोणपी, प्रधान वैज्ञानिक ने 19 जुलाई 2009 को आई.आई.एम; अहमदाबाद में आई.पी. डाटाबेस मैनेजमेंट माइयूल फॉर एग्निकल्चरल रिसर्च सिस्टम विषय पर व्याख्यान दिया ।

**नए प्रकाशन :** डिस्ट्रिब्युशन एंड युटिलाइजेशन ऑफ सोरघम जेनेटिक रिसोर्सेस इन इंडिया (2000-2007) नामक ज्वार आनुवंशिकी स्रोतों के वितरण एवं उपयोग संबंधी सूचनाओं का संकलन, हमारे संस्थान का नया प्रकाशन है ।

**सेवानिवृत्त :** ज्वा.अनु.नि. में प्रशासनिक अधिकारी के रूप में कार्यरत श्री के जे मथाई, अधिवर्षिता पर 31 जुलाई 2009 को सेवानिवृत्त हुए । संस्थान के स्टाफ ने सेवानिवृत्त खुशहाल एवं स्वस्थ जीवन हेतु उन्हें शुभकामनाएँ दीं ।

**सिंचाई की नई छिड़काव पद्धति :** खरीफ मौसम में कम वर्षा की समस्या से निपटने हेतु, सिंचाई पानी के समुचित उपयोगार्थ संस्थान के प्रक्षेत्रों में सिंचाई की नई छिड़काव पद्धति शुरू की गई ।

**हिंदी सारानुवाद : डॉ. महेश कुमार**

finalized. Other issues dealt with are: Need for emphasis on development of parental lines, sharing of responsibilities to produce new materials, and accessing, documenting and the exchange of germplasm materials. A publication entitled "Distribution and utilization of sorghum genetic resources in India: 2000-2007" by M Elangovan et.al., was released by SR Gadakh, Senior Sorghum Breeder, MPKV, Rahuri during this meeting.

### III CAC meeting of NAIP sub-project on "Creation of demand for Millet foods through PCS value-chain"

The III Consortium Advisory Committee (CAC) meeting was organized by ANGRAU at the Home Science College, ANGRAU, Hyderabad on July 10, 2009 under the chairmanship of Dr. NGP Rao. In his introductory remarks the Chairman reiterated that there is a need for goal convergence of all the partners in the consortium to



Dr. NGP Rao and other advisors during NAIP CAC meeting held at Home Science college, Hyderabad

increase demand for millets through product development thereby stimulating sorghum production. Director, DSR advised that the group should ensure that the deliverables have high visibility. He exhorted that through branding millets as health foods demand can be increased. All the



Dr. NGP Rao, and members of advisory committee during release of a DVD on sorghum utilization

consortium team (DSR, ITC Ltd, NIN & ANGRAU) presented the technical progress (2008-09) and work plan for the period from June 2009 to Dec 2009.

Dr JP Singh, Director, DMD, Jaipur & member of review committee stated that high productivity environments should be selected for interventions for further increasing productivity. Dr Pakki Reddy and Dr Vijaya Khader pointed that greater efforts on commercialization is important which should be reflected from increase in production. Mr



Vinayak Rao Patil, member (farmer) also shared his experiences. A digital video film on sorghum DSR (in four languages) cultivation practices, produced jointly by ITC and DSR was released by the Chairman who expressed his happiness over this accomplishment.

### DBT review meetings

The two review meetings of the DBT-sponsored network projects on “Development and application of biotechnological tools for millet improvement” and “Biotechnological approaches towards forage crop improvement” were held at Directorate of Sorghum



Dr. RP Sharma and review committee members of DBT network projects at DSR

Research (DSR) on July 13 and 14, 2009. Dr. RP Sharma (millet biotech network) and Dr. KK Narayanana (forage biotech network) chaired the review meetings, while other expert committee members provided technical inputs. The principal investigators presented the research progress made under their sub-projects. There were 40 participants from various organizations of the country. Director, DSR coordinated and organized the review meetings while Dr. R Madhusudhana, Senior Scientist, DSR assisted the Director. Final reports have been submitted to Dr. RR Sinha, Advisor, DBT.

### Biotech forum activities

Biotech Forum at DSR has initiated a discussion series involving all the Biotechnologists from the sister ICAR institutes at Hyderabad and Biotechnology Department,



Dr. CN Neeraja of DRR delivering a seminar on MAS to members of biotech forum

ANGRAU. The group meets periodically and discusses the latest developments in biotechnology, and related issues

and sharing information on new technology on exploring opportunities. Dr. CN Neeraja, Principal Scientist (Biotechnology), DRR, made a presentation on “Marker-assisted backcross breeding – Case studies in rice” at the Seminar Hall of DSR on July 7, 2009. Scientists and students from DSR, DRR, DOR and NBPGR attended and actively participated in the discussions, which centered on the efficiency of marker-assisted backcross breeding (MABB). Dr P Rajendra Kumar from DSR coordinates these meetings.

### Visit of 86<sup>th</sup> batch of ARS Scientists to DSR

Newly recruited 75 ARS scientists of ICAR belonging to 86<sup>th</sup> batch of the FOCARS visited DSR on July 29, 2009. Dr. SV Rao, Principal Scientist briefed them about the profile of the Institute and other project. The discussions were centered



ARS trainees listening to presentation by Dr. SV Rao

around sweet sorghum utilization and entrepreneurship development, strategies to promote millet foods, and biotechnology. Later, they discussed with thematic area leaders and other DSR scientists. They also visited the food processing activity unit at DSR, and operation of automatic roti making machine. The team was led by Kum. Aneesa, Technical Officer and PRO, NAARM. The visit was facilitated by Drs. Rajendra Chapke and Ch Sashidhar Reddy.

### Registration of DSR with APEDA for export of sorghum *atta* and pops

The process for registration of milled sorghum products for export with Agricultural and Processed Food Products Export Development Authority (APEDA), Hyderabad has been initiated by DSR. Dr. CV Ratnavathi, Principal Scientist and in-charge, promotion of food products of sorghum is coordinating the registration process.

### ज्वार अनुसंधान निदेशालय में हिंदी कार्यशाला

ज्वार अनुसंधान निदेशालय में 06 जुलाई 2009 को निदेशालय में कार्यरत प्रशासनिक अधिकारियों एवं कर्मचारियों के लिए एक दिवसीय हिंदी कार्यशाला का आयोजन किया गया। कार्यशाला का उद्घाटन डॉ. एन सीतारामा, निदेशक, ज्वा.अनु.नि. ने किया। कार्यशाला में डॉ. महेश कुमार, हिंदी अनुवादक, ज्वा.अनु.नि. ने राजभाषा संबंधी सांविधानिक तथा विधिक उपबंध तथा टिप्पण एवं आलेखन विषयों पर स्लाइड्स प्रस्तुतीकरण के माध्यम से अपना व्याख्यान प्रस्तुत किया। उन्होंने उदाहरण देते हुए बताया कि अंग्रेजी की अपेक्षा हिंदी के वाक्य तथा वाक्यांशों में ज्यादा पारदर्शिता है तथा कार्यालय के नेमी कार्यों के लिए भी अंग्रेजी की अपेक्षा हिंदी ही ज्यादा आसान है, चूंकि अन्य भारतीय भाषाओं तथा हिंदी में काफी





संस्थान में आयोजित हिंदी कार्यशाला के दौरान उद्घाटन भाषण देते हुए संस्थान के निदेशक डॉ. एन सीतारामा

समानताएं हैं। कार्यशाला में प्रशासन, भंडार एवं लेखा अनुभाग के अधिकारी व कर्मचारी तथा राजभाषा कार्यान्वयन समिति के सदस्य उपस्थित थे। डॉ. जे एस मिश्र, प्रभारी अधिकारी-हिंदी कक्ष, ज्वा.अनु.नि. द्वारा धन्यवाद ज्ञापन के बाद कार्यशाला का समापन हुआ।

### Training of technical staff

DSR organized a training programme for its technical staff working at DSR, Hyderabad, CRS, Solapur and OSN, Warangal from July 6 - 10, 2009 in collaboration with the ANGRAU, Hyderabad. A total of 28 staff members participated in this programme. Lectures were delivered on the sorghum improvement including breeding techniques, emasculation, pollination, hybrid seed production, maintenance of parental lines, etc. Special hands-on



Dr. M Bharathi of ANGRAU lecturing to DSR technical staff

training on computer usage in agriculture including MS word and excel programmes for entering and editing the data also organized. Dr. TG Nageshwar Rao, Principal Scientist was the coordinator for this activity.

### Collaboration with Ruchira paper Ltd, Kala Amb, Chandigarh

Dr. Chari Appaji, visited Ruchira papers pvt. Ltd, Kala Amb, dist. Shirpur, Himachal Pradesh to explore the possibilities of effective linkage with the paper industry manufacturing paper. During his visit he discussed with Mr. Jatinder Singh, Chairman, and Mr. MK Gupta, General Manager, Ruchira Paper Ltd, on varieties having high biomass which can be suitably used in paper manufacturing. DSR will provide varieties, technical support for research and extension including short term training to staff of RPL, while RPL will identify suitable genotypes for production of paper. A joint project proposal for funding under "Small Business



Dr. Chari Appaji explaining DSR role to Mr. Jatinder Singh, Chairman, and Mr. MK Gupta, General Manager, Ruchira Paper Ltd, Kala Amb, HP

Innovation Research Initiative (SBIRI)" may be submitted to DBT, if the initial programme is good.

### Discussions on Melinda & Bill Gate's foundation supported collaborative project on sorghum

Drs. Tom Hash and BVS Reddy from ICRISAT visited DSR on July 30, 2009 to discuss possible collaboration on the project entitled "Harnessing Opportunities for Productivity Enhancement of Sorghum and millets in Sub-Saharan Africa and South Asia". ICRISAT has received more funds for this project from the foundation, Seattle, USA. The Director, DSR suggested the role of DSR, AICSIP scientists and the role of national researchers. Drs S Audilakshmi and VR Bhagwat also participated in the discussions.



ICRISAT scientists Drs. CT Hash and BVS Reddy in discussion with DSR scientists

### Distinguished visitors

Mr. Charles EE Devenish, Chairman, Geomysore Services Ltd, Bangalore, visited Directorate of Sorghum Research, Hyderabad on July 26, 2009, to study economics of sweet sorghum cultivation and profitability in biogas production in the area where the mining projects are approved by the



Discussions on use of sorghum crop in the mining areas of Karnataka



government. He wants to venture into this project in Shimoga district of Karnataka and sought the advice of DSR. Dr. SS Rao briefed him about technical knowhow and the available seed materials of sweet sorghum for experimentation at target locations. Further discussion is planned for an early date.

Based on the recommendation of DST, Gol, Ms. Richa, Research Manager, BIRD, a research-based consultancy group, New Delhi visited DSR on July 28, 2009 to prepare new plans to diversify and expand their horizons to biomass and bio-products. In particular, they evinced keen interest in



Ms. Richa discussing with Dr. SS Rao and Director

promoting and commercializing sweet and high biomass sorghum for lingo cellulose biofuel production. She had a detailed discussion with Director and Dr. SS Rao. She was appraised about the new developments in ICAR pertaining to collaborative projects with private sector.

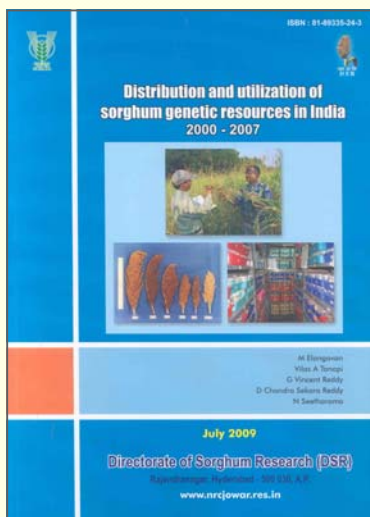
### Lecture Delivered

Dr. Vilas A. Tonapi delivered a lecture on “IP database management module for Agricultural Research System” at IIM, Ahmedabad on July 19, 2009, where he also underwent training.

### New Publication

Elangovan, M., Vilas A Tonapi, Vincent Reddy, G., Chandra Sekara Reddy and N Seetharama, 2009. **Distribution and Utilization of Sorghum Genetic Resources in India (2000-2007)**. Directorate of Sorghum Research (DSR), Rajendranagar, Hyderabad 500030, Andhra Pradesh, India. 123 pp. ISBN: 81-89335-24-3

In this era of intellectual property regime, it is essential to put in practice an appropriate mechanism for sharing germplasm and information. The above is a compilation of information on the distribution and utilization of sorghum genetic resources by the scientists during 2000-2007. It also provides information on the frequency of material



supplied, and material received by the centres or institute. This compiled document will help to know who is using what material and where. The materials are distributed to ensure traceability of germplasm usage through a Material Transfer Agreement (MTA). It is hoped that this compilation will serve as a ready reckoner for all involved in sorghum improvement, especially to monitor the exchange and usage of germplasm.

### Superannuation



Mr. KJ Mathai being presented a memento on the occasion of his superannuation

Sh. KJ Mathai, who served the institute in the capacity of Administrative Officer from 29 September, 2003, superannuated on 31 July 2009. The DSR staff wishes him a very happy and healthy retired life. Mementoes from staff recreation club were presented by the Director.



Sprinkler system to save water

### New sprinkler system of irrigation

The new sprinkler system of irrigation was commissioned at DSR for judicious use of irrigation water to overcome the problem of scanty rainfall during the kharif season.

### Forthcoming Events

#### Training cum learning workshop on “Legalities in the Protection of Plant Varieties and EDVs”

There has been an overwhelming response to this training programme (27-28 August, 2009) being conducted at DSR

Hyderabad from the seed industry, ICAR institutes and SAUs. The acceptance of nominations for this programme was closed on 25th July 2009. For enquiries on second round of training, please contact Dr. Vilas A Tonapi (tonapi@nrscorghum.res.in) and M Elangovan (elangovan@nrscorghum.res.in).

### Meetings (M) / Symposia (S)/ Workshops (W)/ Trainings (T) Conferences (C) attended

| S. No | Name of the Official  | Participated in   | Type | Venue             | Dates           |
|-------|---|---|------|-------------------|-----------------|
| 1     | Rajendra Chapke   | Training on "Remote Sensing and Geographical Information Systems (GIS) in agricultural developments"  | T    | MANAGE, Hyderabad | 13 -17 July, 09 |
| 2     | N Seetharama  | Directors' meeting at HQ  | M    | ICAR, New Delhi   | 16 -17 July, 09 |
| 3     | Vilas A Tonapi  | Training programme on " IP Tech Management for strategic and commercial advantage"  | T    | IIM Ahmedabad     | 17-19 July, 09  |
| 4     | B Dayakar Rao & M Elangovan   | New Ventures India – Road Show  | S    | CII, Hyderabad    | 17 July, 09     |
| 5     | Mahesh Kumar  | Symposium on "Hindi mein Vigyan Lekhan Evam Prashasanik Shabdavali" Organized by CSTT, New Delhi  | S    | CRIDA, Hyderabad  | 21-22 July 09   |
| 6     | B Dayakar Rao   | International training programme on "Economic models for human welfare analysis: Applications to crop-based Biofuels" organized by NCAP, New Delhi. | T    | NCAP, New Delhi   | 24-31 July, 09  |
| 7     | N Seetharama, S Audilakshmi, TGN Rao, SS Rao, VA Tonapi, VR Bhagwat, HS Talwar, Rajendra Chapke, JS Mishra, and M Elangovan | Rabi sorghum review meet  | W    | CRS, Solapur      | 24 July, 09     |

### Official Tours

| S. No | Name of the Official            | Place Visited                | Dates          | Purpose  |
|-------|---------------------------------|------------------------------|----------------|--|
| 1     | N Seetharama                    | NAARM, Hyderabad             | 3 July, 09     | Served as a faculty to NAIP training programme   |
| 2     | Vilas A Tonapi                  | NAS complex, New Delhi       | 4 July, 09     | Hearing at PPV & FRA.  |
| 3     | N Seetharama                    | Parbhani, Nanded and Solapur | 22-23 July 09  | Land lease, Visit to Tata's bioethanol factory, and rabi research planning meet  |
| 4     | B Subbarayudu & Rajendra Chapke | Kothur, Mahaboobnagar Dist.  | 22 July, 09    | To monitor field performance of public and private sorghum cultivars   |
| 5     | Chari Appaji                    | Chandigarh                   | 24-31 July, 09 | To discuss and explore the possibility of linkage for the utilization of sorghum in paper making at M/S Ruchira Paper Ltd, |



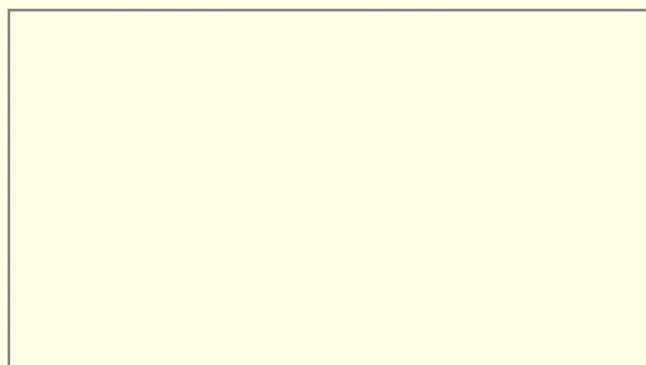
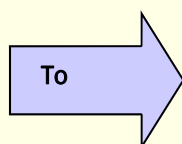
## Drought mitigation and contingency planning for sorghum - Kharif 2009 (As on 31 July, 2009)

| State                       | Rainfall received (1 June – 31 July 2009) | Present crop situation  | Pests/disease status  | Contingency plan  |
|-----------------------------|---|---|---|---|
| Tamil Nadu (Coimbatore)     | 50 mm                                     | Planting delayed by 1 month. Only 10% sowing completed so far. Rain forecast with in 3-4 days in north-west parts                         | No pests and diseases   | Grow short duration sorghum cultivars. Seed treatment with Imidacloprid 600 FS @ 10 ml/kg of seed or apply phorate granules 10G @ 20 kg/ha in the seed furrows at the time of sowing. Use atrazine @ 0.5 kg ai /hectare at pre-emergence to control weeds. Sowing of fodder sorghum |
| Karnataka (Dharwad)         | 550 mm                                    | More than 60% area has been planted so far. Crop condition is very good   | Weed problem is very high due to continuous rains. 5-10% problem of army worm and stem borer. | Hand hoeing to control weeds and to conserve soil moisture. 2,4-D @ 0.50 kg/ha may be applied to control broad-leaved weeds in sole crop of sorghum   |
| Andhra Pradesh (Palem)      | 73 mm                                     | Delayed monsoon, only 20-30 % sowing completed. Moisture stress.  | Problem of shoot fly and stemborer  | Spray 2% urea under moisture stress. Top dressing of urea should be avoided. Practices of thinning of crop stand reduce plant population use biomass as mulch. Apply endosulfan 35 EC @ 2 ml/lit of water to check infestation of shoot fly and stemborer.                          |
| Gujarat (Surat)             | 800 mm                                    | Sowing was done during 1st week of July. Damage upto 70-80 % due to heavy rains and water logging   | Nil   | Re-sowing with early maturing varieties and seed treatment should be done to avoid infestation of pest and diseases. Spray of endosulfan 35 EC @ 2 ml/l water to check incidence of shoot fly. Conserve the soil moisture for rabi sorghum  |
| Maharashtra (Parbhani)      | 105 mm                                    | In Vidarbha, delay in planting by 15-20 days. 10% increase in area over last year. In Marahtwada, delay sowing due to monsoon by 15 days. | Shoot fly incidence 5% in Marahtwada region   | Top dressing of urea where the crop is 20-25 days old. Hand hoeing to control weeds and to conserve soil moisture. Spray of endosulfan 35 EC @ 2 ml/lit of water to check early incidence of shoot fly.   |
| Maharashtra (Akola)         | 373 mm                                    | One month old crop with very good crop stand.   | No pests & disease. 50% weeds found.  | Top dressing of urea where the crop is 20-25 days old. Hand hoeing to control weeds and to conserve soil moisture. Spray of endosulfan 35 EC @ 2 ml/lit of water to check early incidence of shoot fly.   |
| Maharashtra (Rahuri)        | 120 mm                                    | Crop is suffering from moisture stress  | Moderate infestation of Shoot fly, Stem borer & Aphids.                                       | Hand hoeing to control weeds and to conserve soil moisture thinning of crop stand reduce plant population use biomass as mulch. Alternate row irrigation Removal of lower leaves and tillers. Foliar spray of 2% urea   |
| Madhya Pradesh (Indore)     | 500 mm                                    | Timely planting. One month old crop with very good crop stand.  | No pests & disease. weeds are major problem.  | Spray of endosulfan 35 EC @ 2 ml/lit of water to check early incidence of shoot fly.  |
| Rajasthan (Udaipur)         | 359.8 mm                                  | area under sorghum have increased more than 30 % in Rajasthan compared to last year   | Shoot fly, Thrips and Jassids were observed at low to moderate level.                         | Hand hoeing to control weeds and to conserve soil moisture. Spray of endosulfon @ 2 ml/l water. Spray rogor @ 1.5 ml/l for sucking pests.   |
| Haryana (Hisar)             | Below normal                              | Delay in rainfall by 25 days. 20-25% area sown so far   | Nil   | Forecast for rains in 2-3 days. Sow the crop rainfall   |
| Uttaranchal (Pantnagar)     | 50 mm                                     | Monsoon delayed by 1 week. 30-40 % sowing completed   | Nil   | Sow the crop after rains<br>Foliar spray of 20% urea  |
| Uttar Pradesh (Bundelkhand) | Sufficient rains not received             | 15-20% sowing completed.  | Nil   | Hand hoeing to control weeds and to conserve soil moisture.<br>Removal of lower leaves and tillers.<br>Foliar spray of 2% urea  |

## Thought for the month

*Never explain yourself to anyone.....because the person who likes you does not need it.....and the person who dislikes you wont believe it!*

**Printed Matter / Book Post**



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