



Sorghum

Newsletter



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DSR demonstrated sorghum technologies in the National Agri-Fair "Krishi Vasant"

A five-day National Agriculture Fair-cum-Exhibition



entitled "Krishi Vasant – 2014" was organized by the Ministry of Agriculture in collaboration with Confederation of Indian Industry, Government of India at CICR campus, Nagpur, Maharashtra during 9-13 February, 2014. The Exhibition was inaugurated by Hon'ble President of India Sh. Pranav Mukherji in presence of Hon'ble Union Agriculture Minister Sh. Sharad Pawar, Hon'ble Chief Minister Sh. P. Chavan, Agriculture Minister Sh. Radhakrishna Vikhe Patil, Chief Secretary, Maharashtra and Secretary DARE, ICAR on 9th Feb., 2014. Directorate of Sorghum Research

समाचार सारांश

पौधा किस्म संरक्षण तथा कृषक अधिकार पर जागरूकता व प्रशिक्षण कार्यक्रम : पौधा किस्म तथा कृषक अधिकार संरक्षण प्राधिकरण, नई दिल्ली के प्रायोजन से पौधा किस्म संरक्षण तथा कृषक अधिकार के संबंध में जागरूकता लाने के उद्देश्य से निदेशालय के रबी ज्वार केंद्र, सोलापुर में 14 फरवरी 2014 को जागरूकता सह प्रशिक्षण कार्यक्रम का आयोजन किया गया। डॉ. ए एन देशपांडे, भूतपूर्व अध्यक्ष, मृदा विज्ञान एवं रसायन विभाग तथा सह संकाय अध्यक्ष, म.फु.कृ.वि. राहुरी मुख्य अतिथि के रूप में उपस्थित थे। डॉ. एम एलंगोवन, डॉ. वी ए टोणपी तथा डॉ. प्रभाकर उक्त पाठ्यक्रम के समन्वयक थे। उक्त कार्यक्रम में सोलापुर के आसपास स्थित कृषि अनुसंधान संस्थानों से कुल 80 सहभागियों ने भाग लिया।

राष्ट्रीय कृषि वसंत मेले में निदेशालय द्वारा ज्वार पर प्रदर्शन : कृषि मंत्रालय ने भारतीय उद्योग परिसंघ, भारत सरकार के सहयोग से 9-13 फरवरी, 2014 के दौरान के.क.अनु.सं., नागपुर, महाराष्ट्र के परिसर में कृषि वसंत - 2014 नामक पांच दिवसीय राष्ट्रीय कृषि मेला-सह-प्रदर्शनी का आयोजन किया। माननीय राष्ट्रपति श्री प्रणव मुखर्जी ने 9 फरवरी, 2014 उक्त प्रदर्शनी का उद्घाटन किया। रबी ज्वार प्रौद्योगिकियों के सीधे प्रदर्शन, मौखिक प्रस्तुतीकरण तथा ज्वार खाद्य पदार्थों के प्रदर्शन के उद्देश्य से ज्वार अनुसंधान निदेशालय ने भी इस मेले में भाग लिया। इस उद्देश्य की पूर्ति हेतु डॉ. जे वी पाटील के साथ डॉ. वी आर भागवत, प्रधान वैज्ञानिक, डॉ. जे एस मिश्र, प्रधान वैज्ञानिक, डॉ. आर आर चापके, वरिष्ठ वैज्ञानिक, श्रीमती विशाल देवेंदर, सहायक प्रमुख तकनीकी अधिकारी तथा श्री मोहम्मद अनिस, अनुसंधान सहायक शामिल दल उपस्थित था।

ज्वार/कदन्न की कटाई उपरांत प्रौद्योगिकियों पर प्रशिक्षण : ज्वार अनुसंधान निदेशालय ने इन्सिप परियोजना के अंतर्गत कर्नाटक के कृषकों के लिए 24-25 फरवरी 2014 को ज्वार/कदन्न की कटाई उपरांत प्रौद्योगिकियों पर दो दिवसीय प्रशिक्षण कार्यक्रम का आयोजन किया। इस कार्यक्रम में कर्नाटक के विभिन्न जिलों से कुल 20 सहभागियों ने भाग लिया। डॉ. वी ए टोणपी, प्रधान वैज्ञानिक, ज्वा.अनु.नि. ने सहभागियों का स्वागत किया तथा इस कार्यक्रम के प्रयोजन के संबंध में संक्षिप्त जानकारी प्रदान की। डॉ. बी दयाकर राव,

पाठ्यक्रम निदेशक, ज्वा.अनु.नि. ने ज्वार मूल्य शृंखला परियोजना, उससे संबंधित अनुभवों तथा उनके प्रभावों पर सिंहावलोकन प्रस्तुत किया। रा.कृ.न.प. दल के द्वारा सहभागियों के सम्मुख ईटराइट खाद्य पदार्थों से व्यंजन बनाने की विधियों का प्रदर्शन भी किया गया।

इस परीक्षण प्रयोग - रबी 2013-14 का अनुवीक्षण : पा.कि.कृ.अ.सं. प्राधिकरण के दिशा-निर्देशों के अनुसार डॉ. जे वी पाटील, निदेशक, ज्वा.अनु.नि. की अध्यक्षता में 7 फरवरी, 2014 को निदेशालय में आयोजित इस परीक्षण प्रयोगों का अनुवीक्षण किया गया। डॉ. के हरिप्रसन्ना, नोडल अधिकारी, ज्वा.अनु.नि. ने विभिन्न उम्मीदवार किस्मों हेतु दावा किए गए विशिष्ट लक्षणों तथा उनकी अभिव्यक्ति के संबंध में विस्तृत विवरण प्रस्तुत किया। डॉ. अरुणा सी रेड्डी, सह-नोडल अधिकारी ने उक्त अनुवीक्षण को सुकर बनाया।

व्याख्यान

डॉ. पी संजना रेड्डी, वरिष्ठ वैज्ञानिक ने हैदराबाद में 3-5 फरवरी, 2014 के दौरान कृषि तथा बागवानी विज्ञान पर आयोजित द्वितीय अंतर्राष्ट्रीय सम्मेलन में *इंपेक्ट ऑफ लो टेप्रेचर स्ट्रेस ऑन पॉलेन बिहेवियर इन रबी सोरघम* विषय पर व्याख्यान दिया।

अ.भा.स.ज्वा.उ.प. परीक्षणों का अनुवीक्षण : कृ.अनु.के., तांडुर में आयोजित अभासज्वाउप के प्रजनन तथा सस्य विज्ञान संबंधी परीक्षणों का 16 फरवरी 2014 को अनुवीक्षण किया गया। अनुवीक्षण दल में डॉ. प्रभाकर (दल प्रमुख), म.फु.कृ.वि., राहुरी से डॉ. एस आर गदख, डॉ. एम एस सिंधे तथा एस वी निर्मल शामिल थे।

आगन्तुक

अकोला, महाराष्ट्र से कृषक : अकोला जिले से श्री मंगेश वी जाम्ब्रे, तकनीकी अधिकारी, कृषि विभाग, अकोला के नेतृत्व में 30 कृषकों ने कृषक प्रशिक्षण कार्यक्रम के अंतर्गत 25 फरवरी, 2014 को निदेशालय का दौरा किया।

धुले, महाराष्ट्र से छात्र : डॉ. पी पी परमार, सहायक प्रोफेसर के नेतृत्व में कृषि महाविद्यालय, म.फु.कृ.वि., धुले से 14 छात्रों ने अपने शैक्षणिक भ्रमण के अंतर्गत 22 फरवरी, 2014 को निदेशालय का दौरा किया। उन्हें नई प्रौद्योगिकियों, प्रक्षेत्र प्रबंधन तथा कृषि संबंधी अन्य विषयों के बारे में जानकारी प्रदान की गई।

निदेशालय के रबी ज्वार केंद्र, सोलापुर में कृषकों का दौरा : कृषि विभाग, महाराष्ट्र सरकार के बारानी कृषि मिशन के अंतर्गत जाधव वाडी, सतारा जिले से 33 कृषकों के दल ने 15 फरवरी, 2014 को रबी ज्वार केंद्र, सोलापुर दौरा किया। डॉ. एम वाई सम्दुर, प्रधान वैज्ञानिक तथा श्री ए आर लिंगोरे, वरिष्ठ तकनीकी अधिकारी ने उन्हें उन्नत रबी ज्वार कृष्य किस्मों की क्षमता के संबंध में जानकारी प्रदान की। **-डॉ. महेश कुमार**



(DSR), Hyderabad participated in this fair with an objective to demonstrate rabi sorghum technologies and value addition initiatives to produce novel value added products through live demonstration, oral presentation and exhibition of sorghum based food products. A team of experts including Dr. JV Patil, Director, DSR, Drs. VR Bhagwat, JS Mishra, RR Chapke, Mrs. Vishala Devender, and Mr. Mohamad Anis participated in this fair.

The latest sorghum technologies were showcased through (i) exhibition of food products in the sorghum stall installed at ICAR pavilion, (ii) live crop demo of 17 high yielding cultivars planted in demonstration field and (iii) presentation of latest sorghum technologies through audio-visual and personal interactions with the visitors in Technology Farmer's School every day. More than seven lakh stakeholders from all parts of the country including farmers, researchers, academician, officials, policy makers, politicians, students, farm women, entrepreneurs, media persons, etc., visited the fair. Thousands of sorghum farmers from the different parts of the country visited the sorghum stall everyday and showed interest in novel food products and their process of preparation. Dr. S Ayyappan, DG, ICAR,

Dr. T Rajendran, Ex-ADG, ICAR, Dr. JP Singh, Ex-Director, DMD, MoA and dignitaries from the state departments appreciated the work on value-addition undertaken by DSR-Hyderabad. The emphasis of DSR in Krishi Vasanth was to create awareness regarding health benefits of sorghum and its promotion through value-addition. Useful literature on sorghum was displayed and distributed to the visitors.

The programme concluded under the aegis of Hon'ble Chief Minister, Government of Maharashtra Sh. Prithviraj Chavan, Agriculture Minister Sh. Radhakrishna Vikhe Patil, Chief Secretary, Maharashtra and Dr. K. Kranthi, Director, CICR, Nagpur.

Awareness cum Training Programme on “Plant Variety Protection and Farmers Rights” organized

The awareness cum training Programme on “Plant Variety Protection and Farmers Rights” was organized at Centre on Rabi Sorghum (DSR),



Solapur on 14th February 2014. The training programme was sponsored by PPV&FR Authority, New Delhi and the Course Coordinators were Dr. M Elangovan, Dr. VA Tonapi and Dr. Prabhakar. A total of 80 participants from academic and research institutes located in and around Solapur attended the programme. They were 32 Post Graduate students and Teachers of Departments

of Botany and Zoology from Dayanand College, six Assistant Professors from Zonal Agricultural Research Station, MPKV, Rahuri, 3 each participants from National Research Centre on Pomegranate, Krishi School, Krishi Vignan Kendra and 12 participants from Centre on Rabi Sorghum (DSR), Solapur.

Dr. AN Deshpande, Ex- Head, Department of Soil Science and Chemistry & Associate Dean, MPKV, Rahuri was the Chief Guest. Dr. Prabhakar, Principal Scientist & Officer In-charge, CRS (DSR), Solapur welcomed the Chief Guest and participants and briefed on the research activities of the Centre. Dr. AN Deshpande in his address gave a brief account on Protection of Plant Varieties and Farmers Rights Act 2001. He specifically mentioned on protection of farmers varieties in pomegranate, sorghum, brinjal and tomato. On this occasion, publications entitled ‘A hand book of popular sorghum cultivars of India’ both in Hindi and Marathi were released by the Chief Guest.

Dr. VA Tonapi, Principal Scientist, DSR, Hyderabad presented a detailed account on Protection of Plant Varieties & Farmers’ Right, Act, 2001, plant breeders and researcher’s rights and its implications, EDVs and need for documentation of IP assets in national agricultural research system in India and filling up of applications for protection of plant varieties. Dr. Prabhakar presented the important traits to be considered in while breeding for DUS traits in sorghum. The participants were also explained about the improved cultivars of sorghum and sorghum food products exhibited in the museum of CRS (DSR), Solapur by Dr. Prabhakar and Dr. Shashidhar Reddy. Dr. MY Samdur, Principal Scientist proposed vote of thanks.

Training programme on Seed quality assurance to ASEAN trainees

DSR Hyderabad co-hosted 25 ASEAN trainees (Main host - DSR-Mau, UP, India) and coordinated their training related to maintenance breeding, seed quality assurance strategies, novel seed storage and drying techniques and stewardship management. The trainees also visited M/s Syngenta technology centre and M/s Gubba Cold storage centres at Hyderabad to understand seed quality assurance, management and modern cold storage facilities. This training programme was coordinated by Drs. Vilas A Tonapi & K Srinivasa Babu and facilitated by Sh. Raghunath Kulkarni



and RS Meena.

Training Programmes on “Post Harvest Technologies of Sorghum/ Millets”

Directorate of Sorghum Research organized a two-day training programme entitled “Post Harvest Technologies of Sorghum/ Millets”



during 24-25 February, 2014, For Karnataka farmers under INSIMP project. 20 participants from different districts of Karnataka participated in this programme. Dr. Vilas A Tonapi, Principal scientist welcomed the participants and briefed them about the purpose of organizing this training programme. Dr B Dayakar Rao, Course Director, DSR presented the overview of sorghum value chain project and experiences and its impact. Demonstration and operation of primary processing equipment was done by Mr. Thomas Nicodemus. The NAIP team at DSR including Mrs. Vishala Devender, Mrs. Kavitha and other team members demonstrated the preparation of recipes from ‘eatrite’ sorghum food products.

Monitoring of rabi DUS testing trials at DSR, Hyderabad

The monitoring of DUS Testing trials was conducted at DSR on 7th February 2014 under the Chairmanship of Dr. JV Patil, Director, DSR, Hyderabad as per the guidelines of PPV&FRA. Dr. K Hariprasanna, Nodal Officer, DSR explained the DUS testing for different candidate varieties in relation to reference varieties. Dr. C. Aruna, Co-Nodal Officer also facilitated the monitoring. Under 1 year testing four candidate varieties



were tested along with six reference varieties, and under 2nd year testing five candidate varieties were tested along with six reference varieties. The Chairman appreciated the quality of conduct of DUS trials. The Chairman suggested that maintaining appropriate plant population in DUS testing trials and maintenance breeding of 55 reference varieties. The report of the monitoring team and DUS test proformae for the candidate varieties were prepared by the team.

Lecturers delivered

Dr. P Sanjana Reddy, Senior Scientist delivered the guest lecture on "Impact of low temperature stress on pollen behaviour in rabi sorghum" at the "Second International conference on Agricultural and Horticultural Sciences" conducted at Hyderabad during February 3-5, 2014. She also delivered a lecture on "Seed setting ability and stigma receptivity in post-rainy sorghum varieties under cold stress" in the "International Conference on Agriculture, Veterinary and Life Sciences" conducted at Vijayawada during January 24-25, 2014.

Monitoring of AICSIP trials

Tandur: The AICSIP Breeding and Agronomy trials at ARS, Tandur were monitored on 16th February 2014. Monitoring team consisting Dr. Prabhakar (Team leader), Dr. SR Gadakh, Dr. MS Shinde and SV Niramal of MPKV, Rahuri visited the fields.

Doctorate awarded



Mr. Vinodh Ratnala, SRF, NPTC project at DSR was awarded Doctorate in Botany in the month of February, 2014 by Andhra University, Visakhapatnam. His doctoral work is on “Genetic transformation of sorghum for stem-borer resistance using *Cry1 Aa* gene via Agrobacterium mediated approach”. He was guided by Dr. D Balakrishna, Sr. Scientist at DSR. *Congratulations to Dr. Vinodh.*

Visitors

Farmers from Akola, Maharashtra

A group of 30 progressive farmers from Akola district of Maharashtra visited to the DSR on 5th February, 2014 to get detailed know-how about



the sorghum crop and its usefulness. The farmers were interested to know the details about latest improvement in the crop cultivation and value addition in sorghum with special reference to *kharif* sorghum. The Dr. RR Chapke, Sr. Scientist, DSR welcomed them and gave orientation about the latest production technologies developed and the institute research activities at the demonstration plot. They enquired regarding dual purpose varieties including availability of seeds. It was followed by interaction on different aspects of current sorghum status of the sorghum and problems in sorghum cultivation especially on biotic stress including damage of crop by wild animals and birds. Dr. VR Bhagwat also narrated regarding plant protection measures and solution on their local problems. They showed deep interest to know about preparation of value-added sorghum products and their marketing, and expressed satisfaction after visiting food laboratory. This visit was coordinated by Dr. RR Chapke, Sr. Scientist and Sh. HS Gawali, T6 of Agricultural Extension Unit.

Students from Dhule, Maharashtra

Fourteen students from College of Agriculture, MPKV, Dhule led by Dr. PP Pawar, Assistant Professor, visited DSR on 22 February, 2014 as a part of their educational tour.

The purpose of the above visits was to expose them to new technological innovations, farm management, and other issues in agriculture. The group also visited alternate uses lab. They were also briefed on the application of modern tools of biotechnology and processes for preparation of



value-added products from sorghum. Dr. RR Chapke and Dr. Sunil Gomashe and HS Gawali coordinated these visits.

CRS (DSR) -Solapur

Farmers from Satara, Maharashtra

Under the Dryland Agriculture Mission of Department of Agriculture, Govt. of Maharashtra, 33 farmers from Jadhav Wadi village of Man Taluk, Satara district, visited Centre on Rabi Sorghum (DSR), Solapur on 15 February 2014. Dr. MY Samdur, Principal Scientist and Sh AR Limbore, Sr. Technical Officer of CRS (DSR), Solapur explained the potential of improved rabi sorghum cultivars vis- a-vis local cultivars in demonstration plots. They also explained about the novel sorghum food products and improved varieties in museum of the centre.

Recognition

Dr. B Subbarayudu, Sr. Scientist, (Entomology) received an appreciation letter from Hon.ble Agricultural Minister, Government of Andhra Pradesh Sri Kanna Lakshmi Narayana in recognition of his contributions in the promotion of sorghum cultivation in Rice fallows, Guntur district in particular. *Congratulations to Dr. Subbarayudu for this credit.*

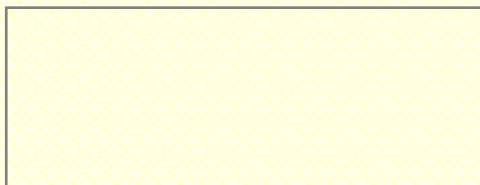
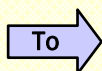
Meetings (M) / Symposia (S)/ Workshops (W)/ Trainings (T) Conferences (C) attended

S. No	Name of the Official	Participated in	Type	Venue	Dates
1	P Sanjana Reddy	"International Conference on Agriculture, Veterinary and Life Sciences"	C	Vijayawada	24-25 Jan 2014
2	P Sanjana Reddy	"Second International conference on Agricultural and Horticultural Sciences"	C	Hyderabad	3-5 Feb, 2014
3	JV Patil, JS Mishra , VR Bhagwat, RR Chapke, and Vishala Devender	National agriculture fair "Krishi Vasant"	C	CICR, Nagpur	9-11 Feb, 2014
4	JV Patil	Visit to AICSIP, Akola	M	Dr. PDKV, Akola	12 Feb, 2014
5	JS Mishra	AICRP-weed control group meeting	M	DWSR, Jabalpur	13-14 Feb, 2014
6	JS Mishra	ISWS Conference	C	DWSR, Jabalpur	15-17 Feb, 2014
7	Vilas A Tonapi	Meeting on seed quality control strategies	M	Aurangabad	20-21 Feb, 2014
8	JV Patil & Vilas A Tonapi	Meeting with In-charges at Bijapur and Dharwad centres	M	UAS, Dharwad and Bijapur	25-27 Feb, 2014
9	K Hariprasanna	DUS review meeting organized by PPV&FRA	M	UAS, Dharwad	28 Feb- 1 March, 2014

Thought for the month

If your dream is not big enough to scare you a bit, it's too small -- Robin Sharma

Printed Matter / Book Post



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