

DMR Newsletter



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Dr. R.S. Paroda keenly watching the newly developed sweet corn hybrid

Dr. R.S. Paroda, Chairman, Trust for Advancement of Agricultural Sciences (TAAS) and former Secretary, DARE & Director-General ICAR visited Baby Corn and Sweet Corn Villages in Sonapat District of Haryana on 6th January, 2009. He also visited DMR on 17th February 2009 and addressing to the participants of the training on "Seed Production of Single Cross Hybrid, Cultivation and Processing of Maize"

Dr. Swapan Kumar Datta takes over as DDG (CS) ICAR, New Delhi



Dr. Swapan Kumar Datta, a distinguished international scientist has joined as Deputy Director-General (Crop Sciences), Indian Council of Agricultural Research, New Delhi on 18th June 2009. Before joining ICAR, Dr. Datta was Professor at the University of Calcutta. Prior to that he served as Senior Scientist and CGIAR Harvest Plus Rice Crop leader at IRRI, Manila, Philippines. He has published more than 115 research papers in National and International Journals and has edited a book entitled "Pathogenesis-Related Proteins in Plants". His work has been internationally acclaimed and he is a recipient of several prestigious awards, some of them are Tata Innovation Fellowship from the Government of India and P. Maheshwari Medal in 2006. Dr. Datta's research areas include Plant Biotechnology and Molecular Breeding. Under his dynamic leadership, Crop Division of ICAR will get strengthened.



Dr. Sain Dass, Project Director welcoming Dr. R.S Paroda on his visit to DMR on 17th February, 2009

Dr. H.S. Gupta Joins as Director of IARI, New Delhi



Dr. Hari Shankar Gupta joined as Director of the prestigious Indian Agricultural Research Institute, New Delhi on 1st April, 2009. Before this, Dr. Gupta was Director of Vivekanand Parvatiya Krishi Anusandhan Shala (VPKAS), Almora, where he made significant contribution in improving the organization. He has developed dozens of hybrids and varieties in important food, legumes and other crops. He is recipient of several Fellowships and ICAR Awards. During his tenure IARI will reach to the new heights.

52nd ANNUAL MAIZE WORKSHOP

The “52nd All India Maize Research Worker's Group Meet” was jointly organized by UAS, Dharwad and Directorate of Maize Research, New Delhi from April 10-12, 2009, at UAS, Dharwad. Dr. S.P. Tiwari, Deputy Director General (Crop science), ICAR, New Delhi, inaugurating the three days workshop, expressed that a lot of foreign exchange is earned through agriculture which needs proper recognition and opined that there should be continuous green revolution in agriculture for the benefit of farmers. Dr. S.A. Patil, Chairman, Karnataka Agriculture Mission said that adequate seeds of improved varieties and hybrids should be made available to the farmers through "public and private partnership", a tool for increasing the production and productivity of maize in the country. Dr. J.H. Kulkarni, Vice Chancellor in his presidential remarks opined that the nutrients should be sufficiently replenished into the soil as maize is highly nutrient exhaustive crop. Project Director (Maize), Dr. Sain Dass presented the project report of Directorate of Maize Research (DMR). Dr. S.N. Shukla, ADG (FFC), ICAR applauded the efforts of scientists, extension workers and farmers in increasing the production, productivity and area under maize crop. The Assistant Director General (Seeds) Dr. N.D. Jambhale, Dr. B.V. Patil, Special Officer, University of Agricultural Sciences, Raichur, Member, Board of Regents, Dr. A.D. Kotnal, Sri Odugoudar and more than 200 delegates including scientists and corporate personalities from different states attended the meet.



Dr. S.P. Tiwari, Deputy Director General (Crop Sciences) of ICAR, inaugurating the 52nd All India Maize Research Workers' Meet

Table 1: Maize hybrids/ composites identified during 52nd Annual maize Workshop held at University of Agricultural Sciences, Dharwad (Karnataka)

S.NO.	HYBRID/COMPOSITE	AREA OF ADAPTATION
LATE MATURITY		
1.	NICH-132	Punjab, Haryana, Delhi, Up, Bihar, Jharkhand, Orissa Karnataka, AP, TN Maharashtra, Rajasthan, Gujarat, Chhattisgarh, MP
2.	NECH-131	Punjab, Haryana, Delhi, Wastern UP, Karnataka, AP, TN, Maharashtra
3.	SMH-3904	Eastern UP, Jharkhand, Orissa, Karnataka, AP, TN, Maharashtra
4.	JKMH-502	Punjab, Haryana, Delhi
5.	PAC-740	Punjab, Haryana, Delhi
MEDIUM MATURITY		
6.	L-173	Karnataka, AP, TN, Maharashtra
EARLY MATURITY		
7.	MCH-35	Karnataka, AP, TN, Maharashtra
EXTRA EARLY MATURITY		
8.	VL-113	J &K, HP, Uttarakhand, NE Hills
9.	VL-114	Karnataka, AP, TN, Maharashtra
RABI		
10.	HM-11	Punjab, Haryana, Delhi, Eastern UP, Bihar, Jharkhand, Orissa, Karnataka, AP, TN, Maharashtra
11.	MON-25	Eastern UP, Bihar, Jharkhand, Orissa
12.	MON-26	Punjab, Haryana, Delhi, AP, TN, Maharashtra”



HM11



VL 113



VL 114



Bajaura Makka-1



JKMH 502



SMH-3904



PAC740

GERMPLASM REGISTERED

Six extant hybrids/ varieties of maize viz, HM-5 (CCSHAU, Karnal), Vivek 15(VPKAS, Almora), Pratap Makka-1 (MPUAT, Udaipur), PEHM-1 (IARI, New Delhi), Gujarat Makai-1 (AAU, Godhra) and CoH-3 (TNAU, Coimbatore) have been granted protection by PPV&FR Authority for a period of 15 years with effect from their respective dates of notification.



Gujarat Makai-2



HM-5



Vivek Maize Hybrid 15



PEHM-1

HYBRIDS AND VARIETIES OF MAIZE RELEASED DURING 2008-09

S.No	Name	Centre	Area of adaptation
1	HM 10	Karnal	Delhi , Punjab, Haryana, Western Up, Rajasthan, M.P, Gujarat, A.P, T.N., Maharashtra & Karnataka
2.	HM.8	Karnal	Do- (Rabi and Kharif)
3.	HQPM 7	Karnal	Andhra Pradesh, Karnataka, T.N. and Maharashtra
4	Vivek 33	Almora	J&K, HP, UP, AP, Karnataka, T.N, & Maharashtra
5.	Vivek QPM 9	Almora	J&K, HP, UP, AP, Karnataka, T.N, & Maharashtra
6.	PMH3	Ludhiana	Delhi, Punjab, Haryana, Western UP
7.	Nithya shree *	Naganahalli	Karnataka
8.	PRO 368 *	Proagro	Rajasthan, Gujarat & M.P
9.	Pant Sankul Makka 3	Pantnagar	AP, Karnataka, Maharashtra, Rajasthan, Gujarat, MP,
10.	Bio-22027	Bioseed	Punjab, Haryana, Western UP
11.	Chandramani	Kanpur	AP, Karnataka, Maharashtra, T.N.
12.	Shradamani	Kanpur	AP, Karnataka, Maharashtra, T.N.
13.	Pratap Kanchan-2	MPUA&T Banswara	J&K, AU
14.	Bajaura Makka	Bajaura	UA, HP
15.	Vivek Sankul makka 31	Almora	UA, HP&JK.
16.	Pratap chari 6	MPUA& T Udaipur	Punjab, Haryana, Delhi, Western UP

INTERNATIONAL COLLABORATIONS

Work plan meeting of ICAR-CIMMYT collaborative projects on “Abiotic stress tolerant maize” and “High-yielding, heat-tolerant and disease-resistant maize” were organized at DMR, Hyderabad/ICRISAT, Hyderabad on 16th and 17th March, 2009.

The meetings were chaired by Dr. Raj Gupta, South Asia Coordinator (DACST), CIMMYT and attended by 15 scientists from CIMMYT, India, Bangladesh and Nepal to finalize the first year work plan.



Dr. Raj Gupta

SUCCESS STORY OF A SWEET CORN FARMER



Mr. Dinesh Kumar

Mr. Dinesh Kumar was the first farmer in Sonepat District (Haryana) to introduce sweet corn in his Village Mandauli in the year 2001. Initially he was not satisfied by the cultivation of sweet corn as the yield was very low and it was not profitable as compared to other crops. However, he did not get discouraged but continued to grow sweet corn. When he contacted Maize Scientists he was advised to grow Hybrid Sweet Corn with full package of practices. By adopting the improved technologies the sweet corn grown by him became remunerative and all other villagers followed him. Today the Village Mandauli is known as Sweet Corn Village and sweet corn is grown round the year in this Village.

INBRED HYBRID DEVELOPMENT TRAINING AND MAIZE FIELD DAY

Four days maize training on inbred hybrid development and inbred evaluation was organized from March 14th to 17th at DMR Winter Nursery Centre, Hyderabad. This training was attended by around 100 scientists from different SAUs/ICAR institutes and private organizations. During the training various practical aspects of maize breeding like evaluation, cleaning and selection of inbred lines, development of single cross hybrids and their seed production, DUS



The participating trainees interacting with the experts



The Participants of the Maize germplasm field day

characterization of hybrids and inbred lines etc., was discussed. The breeders evaluated the germplasm and selected the desirable/superior lines to be utilised in the development of inter-institutional hybrids. On March 17, 2009 the scientists were exposed to the introduction nursery of CIMMYT-India and Sehgal Foundation at ICRISAT, Hyderabad.

TRANSFER OF TECHNOLOGY

Frontline Demonstrations

DMR conducted 276 FLDs and coordinated more than three thousand FLDs during Rabi/ spring 2008-09 which were organized in more than ten states of India through thirty agencies of public and private sectors. Seed production, Quality Protein Maize, baby corn, green cobs, single cross hybrids were demonstrated in FLDs at farmer's field.

Training Programmes

Farmers Training at Bugusarai (Bihar)

Four Day Farmers Training programme on "Seed Production, Cultivation and Value Addition of Single Cross Hybrid Maize" was conducted at Regional Maize Research and Seed Production Centre, Begusarai from January 28-31, 2009. More than thirty farmers attended this training.

Officers Training at DMR, New Delhi

Eight Days Model Training Course on "Seed Production of Single Cross Hybrid, Cultivation and Processing of Maize" was conducted from February 16-23, 2009 at the Directorate of Maize Research. Eighteen officers from State Department of Agriculture of different states attended training.



Model Training Course on "Seed Production of Single Cross Hybrid, Cultivation and Processing of Maize"

Training on Value Addition of Baby Corn

One day training programme on “Value Addition of Baby Corn was organized at Directorate of Maize Research on 18.02.2009. Over fifty farm women from NCR Delhi and few progressive farmers attended training. Various recipes of baby corn were prepared by trainees.



TRAINING-CUM- SEMINAR ON VALUE ADDED SINGLE CROSS MAIZE HYBRIDS

A training-cum-seminar on “Promotion of Value Added Single Cross Hybrids for Food and Nutritional Security in Tribal Belt of Central India” was jointly organized by DMR, New Delhi and Maize Research Station, AAU, Godhra (Gujarat) on 14th June, 2009 at Dahod (Gujarat). Dr. Sain Dass, Project Director (Maize) inaugurated the function and delivered lecture on “Importance and advantage of Single Cross Hybrids and its quality seed production technology for normal maize, quality protein maize, sweet corn and baby corn. More than 250 farmers and 18 maize scientists participated from the Gujarat, Rajasthan, Madhya Pradesh and Chhatisgarh states. Representatives of M/s Anil Products Ltd., Ahmedabad interacted with scientists and farmers regarding dissemination of technologies and quality products for industrial uses. All participating farmers received seed kits of HQPM-1 as FLD's.



Kisan Melas and Exhibitions

DMR participated in Pusa Krishi Vigyan Mela 2009 at Mela ground, IARI, Pusa Campus, New Delhi from February 23-26, 2009. Single cross hybrid seed, QPM products, baby corn recipes, industrial products, etc. were source of attraction for visitors. Corn Chip and QPM Biscuit were liked very much by visitors.

DMR received Prashansa Puskar in Pusa Krishi Vigyan Mela 2009



Distinguished Visitors



- Dr. Thomas A. Lumpkin, Director General, CIMMYT discussing with Dr. Sain Dass, Project Director during his visit to DMR on 4th Feb, 2009
- Dr. (Ms) Mariko Shono, Chief Researcher, JIRCAS, Japan interacting with Dr. Sain Dass during her visit to DMR on 22nd February, 2009



Dr. S.K. Datta addressing the maize scientists

- Dr. Datta, Deputy Director-General, ICAR visited DMR on 27th June 2009 and addressed to the maize scientists. He showed keen interest in various activities of DMR and emphasized for strengthening of crop improvement research through convention breeding along with Molecular breeding
- Dr. H S Gupta visited DMR on 24th June 2009 and wholeheartedly appreciated the efforts of Indian maize scientists under the able leadership of Dr. Sain Dass for increasing maize productivity in India by 530 Kg/ha/annum during 2007-08.

New Joining

Dr. Avinash Singode Scientist (Plant Breeding) joined at DMR on 19th June 2009 after completion of training at NAARM, Hyderabad.

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