

Newsletter

CENTRAL TOBACCO RESEARCH INSTITUTE, RAJAHMUNDRY - 533 105

RESEARCH HIGHLIGHTS

- Two caterpillar resistant lines viz. VH.96-4 and HV.96-3 developed through back cross breeding involving the chewing variety VR-2 as the recurrent parent recorded a mean yield increase of 17 and 10.6 per cent respectively over the susceptible check VR-2 in the bulk trials conducted at two different locations in the coastal Vedaranyam taluk of Tamil Nadu.
- Two caterpillar resistant lines viz. HV.2000-2 and HV.2000-6 were found promising in terms of high yield of 3883 and 3952 kg/ha compared to 3631 and 3694 kg/ha respectively of their recurrent parents HV.86-2 and Abirami. The selections were promoted to IVT under NRPT as well as bulk evaluation in selected growers field in the tobacco zones of Tamil Nadu.
- Two country cheroot tobacco selections viz. HV.97-7 and HV.97-10 tested in growers field in the cheroot tract were found promising, recording higher yields of 3033 and 3167 kg/ha as against the pure line variety I.737. In terms of smoking quality, HV. 97-10 recorded the maximum quality score of 33 out of 40 followed by HV.97-7 with 31 compared to 27 of I.737.
- Chewing tobacco + beetroot recorded a higher net return of Rs. 74245/ha, with a C:B ratio of 1:3.09, followed by chewing tobacco alone.
- Among the various chewing tobacco based cropping sequences, ragi in kharif and chewing tobacco in rabi recorded a higher net return of Rs. 67747/ha.
- A spacing of 60 cm x 50 cm with 60 kg N/ha and topping at 16 leaves was found to be optimum for cultivation of bidi tobacco hybrid GJH 108 under Veda sandur conditions.
- Preliminary studies indicated that, Kalisena, a bio-control product containing *Aspergillus niger* is effective and promising against soil-borne fungal diseases in FCV tobacco nursery. It is more effective when combined with soil solarization.
- A caterpillar resistant chewing tobacco line HV.94-21 was identified as the most promising line with a mean cured leaf of 3722 kg/ha (3.6% increase over the susceptible recurrent parent check variety Meenakshi).

TRANSFER OF TECHNOLOGY

TRAINING TO FARMERS

- Dr. M. Mahadevaswamy and Dr. K. Giridhar gave training on "Watershed Concepts" to farmers of Makodu on 10th April, 2003.
- Scientists and Technical Officers of CTRI Res. Station, Hunsur gave training to farmers of Model Project Area Programme on (i) Nursery Management in FCV tobacco on 25-4-2003 and (ii) Field crop management in FCV tobacco in KLS on 13.5.03 and 14.5.03.
- Dr. M. M. Sheno, Sri K. N. Subrahmanya, Dr. K. Giridhar and Sri C. Mahadevaswamy gave training on Field crop management in FCV tobacco in KLS to farmers of Melur, Makodu, Konasur and Kothavalli Koppalu villages of Karnataka on 30.5.03 and 5.6.03 to 7.6.03.

TRAININGS/ CONFERENCES/ MEETINGS

- Dr. U. Sreedhar, Senior Scientist participated in the review meeting of the task force of DBT and presented the report of DBT R&D project " Role of biological resources for management of *Spodoptera litura* and *Helicoverpa armigera* on tobacco and groundnut in coastal A.P." at CARI, Port Blair during 8 - 9 May, 2003.

□ Sri N. Veerajulu, Tech. T-I-3 of CTRI, Rajahmundry underwent the training on 'Isolation, inoculation and maintenance of blackshank pathogen at CTRI Research Station, Hunsur during 26.5.2003 to 4.6.2003.

□ Dr. K. Deo Singh, Director and Dr. R.V.S. Rao, Head-in-Charge, Div. of Crop Improvement attended the meeting of 'Germplasm Advisory Committee on Commercial Crops' held under the Chairmanship of Dr. C.D. Mayee, Director, CICR, Nagpur at NBPGR, New Delhi on 28.6.03.

□ Smt. N. Aruna Kumari, Technical Officer attended the three weeks summer training programme on 'Computer aided apparel designing' at College of Home Science, Hyderabad during 5 - 25 May, 2003.

□ Smt. K. Suman Kalyani, Scientist attended the technical programme meeting of KVK at EEI, Hyderabad during 12.5.03 to 16.6.03.

□ Dr. S. Kasturi Krishna, Scientist (SS) attended the summer school on "Management of pulses under drought conditions" at IIPR, Kanpur during 20.5.03 to 9.6.03.

□ Dr. R.V.S. Rao, Head-in-Charge, Division of Crop Improvement participated in the Germplasm Committee meeting at NBPGR, New Delhi during 27 - 29 May, 2003.

□ Dr. M.M. Shenoi, Principal Scientist & Head-in-Charge, CTRI Research Station, Hunsur attended the "Regional Committee Meeting for export promotion strategy" at Tobacco Board, Bangalore during 19 - 20 June, 2003.

PAPERS PUBLISHED

Nageswara Rao, K., D.P. Babu and M. Bangarayya. Tobacco seed storage - 2 : Field performance of tobacco seed stored at ambient temperature. Indian J. Agric. Res. 36(4) : 296-8, Dec. 2002.

Ravishankar, H. and K. Deo Singh, Agricultural research applications of expert system. Agrigold Swarna Sedyam, May 2003, p. 48-51.

Sudhakar, R. and V.V. Lakshmikumari. Banana fibre extraction. Eenadu, Rythe Raju, E.G. Dist, Edn. May 23, 2003.

RADIO TALKS

□ మిశ్రమ పంటల సాగు పద్ధతిలో సమగ్రపోషకాల యాజమాన్యం by Dr. S.V. Krishna Reddy on AIR, Visakhapatnam on 12.4.2003

□ జీవన ఎరువులు రైతుకు ప్రకృతి వరప్రసాదము by Dr. D.V. Subhashini on AIR, Visakhapatnam on 14.4.2003.

□ ఆధునిక వ్యవసాయములో జీవ సాంకేతిక విజ్ఞానము by Dr. K. Sarala on AIR, Visakhapatnam on 30.5.2003

□ Pre-planting operations and planting of tobacco by Dr. M.

Kumaresan on AIR, Madurai on 30.5.2003.

□ లంకభూముల్లో మొక్కజొన్న సాగు by S. Jitendranath on AIR, Visakhapatnam on 9.4.03.

□ అరటి వ్యర్థాలతో కాగితం తయారీ by R. Sudhakar on AIR, Visakhapatnam on 11.4.03.

□ వేసవిలో పశు సంరక్షణ by Dr. P.V.V.S. Siva Rao on AIR, Visakhapatnam on 8.5.03.

□ వేసవిలో వ్యవసాయ పనులలో గ్రామీణ మహిళల పాత్ర by Dr. K. Suman Kalyani on AIR, Visakhapatnam, on 21.4.03.

□ గ్రామీణాభివృద్ధిలో K.V.K. పాత్ర by Smt. V. V. Lakshmikumari on AIR, Visakhapatnam on 26.6.03.

TOBACCO FARMERS' PORTAL

Tobacco Farmers' Portal was established at CTRI, Rajahmundry in collaboration with Tobacco Board, ITC-ILTD. So far 391 questions have been answered by CTRI. The Northern light soil farmers raised maximum questions (194), followed by Southern light soils farmers (72), southern black soils (54) northern black soils (45) and Central black soils (30) on different aspects of cultivation. The portal can be visited at www.indiantobacco.com

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An Official Web Site of TOBACCO BOARD ministry of Commerce, Government of India



A One Stop Information Hub

India is the world's 3rd largest producer of tobacco next to China and the U.S.A. Endowed with rich agro-climatic attributes like fertile soils, plentiful rainfall and ample sunshine, India produces various types of tobacco to meet the needs of discerning customers.

This Tobacco Board's initiative, aims to create awareness among Indian FCV Tobacco Farming Community to successfully compete in the global market. This site provides domestic & international FCV market trends, best farming practices and also provides on-line services like registration, fertiliser indents, soil testing, etc.

This site also provides links to various Agri-Input vendors. It also has a Question & Answer forum in which an experts' panel gives solutions to the farmers' queries on Tobacco farming and marketing.

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VISITORS

□ Mr. Emmanuel Silalahi from BAT, Indonesia visited CTRI, RJY on 23.4.2004 and he gave remarks as follows "It is a great opportunity to see how the research involves in tobacco development in order to meet the satisfaction both farmers and end users. A lot of innovations have been generated in the Institute which help the industry further."

□ Mr. Knyntef Knyskowski and Mr. Thomas Lindegaard from Poland on 22.5.2003.

Visitors in smoking machine room ➤



INHOUSE SEMINARS

□ Mrs. K. Suman Kalyani, Scientist, KVK delivered a lecture on 'Role stress of women in agriculture - An ecological perspective' on 29.4.2003.

□ Dr. P. Harishu Kumar, Principal Scientist & Head, Div. Of Crop Production delivered a lecture on "The lost glory of tribal land at the cost of eco-systems" on 9.5.2003.

INTERINSTITUTIONAL TRANSFER

□ Dr. A.R. Panda, Principal Scientist has joined at CTRI Research Station, Kandukur on 27.6.2003 on inter institutional transfer basis from C.R.R.I., Cuttack.

RETIREMENTS

1. Sri G. Radha Krishna Murthy, Technical Officer, T-6, CTRI Research Station, Guntur retired on 30.4.2003.

2. Sri Abdul Subhan, SS.Gr. IV, CTRI Res. Station, Hunsur retired on 30.4.2003

3. Sri A.I. Narayanan, Principal Scientist, CTRI, Rajahmundry retired on 31.5.2003

4. Dr. P.V. Rao, Senior Scientist, CTRI Res. Station, Guntur retired on 30.6.2003

5. Sri K. Nagaraju, SS.Gr. II, CTRI Farm, Katheru retired on 30.6.2003.

केन्द्रीय तंबाकू अनुसंधान संस्थान, राजमंद्री

अनुसंधान की उपलब्धियाँ

तलिनाडु के वेदारण्यम तालुका के समुद्रतटीय क्षेत्र में दो अलग अलग स्थानों पर किये गए विस्तृत परिक्षणों में खैनी तंबाकू की अति संवेदनशील बी. आर-2 मूलतः पुनरवतौ किस्म संकर प्रजनन द्वारा बी.एच.96-4 और एच.बी. 96-3 नामक विकसित दो केटर पिलर प्रतिरोधी लाइनों से क्रमशः 17और 10.6 प्रतिशत औसतन पैदावर वृद्धि दर्ज की गयी।

खैनी तंबाकू के साथ साथ, बीटरूट की 1:3/09 के अनुपात में खेती से रु 74,245/- प्रति हेक्टेयर की उच्चतम शुद्ध आय दर्ज की गई।

विभिन्न खैनी तंबाकू के अंतर्गत सिलसिलेवार पैदावार अर्थात खरीफ में रबी और रबी में खैनी तंबाकू से रु. 67,747/- प्रति हेक्टेयर की शुद्ध आय दर्ज की गई।

वेदसंदूर की विध्यमान परिस्थितियों के अंतर्गत बी.डी. तंबाकू की संकर जाति जी जे.एच. 108 को 60 सें.मी. x 50 सें.मी.

अंतराल के साथ साथ खेती में 60 कि.ग्रा एन/ हेक्टेयर और 16 पत्तों की शीर्षकर्तन पद्धति से अधिकतम पैदावार प्राप्त की गई।

टुबेको फार्मर्स पोर्टल

तम्बाकू बोर्ड, आई. टी. सी. - आई.एल.टी.डी. लिमिटेड के सहयोग से सी.टी.आर. आई., राजमंद्री तम्बाकू कीसानों का प्रवेश-द्वार की स्थापना की गयी। सी. टी. आर. आई. द्वारा अब तक 391 प्रश्नों के उत्तर दिये गये। इस प्रवेश-द्वार को डब्ल्यू.डब्ल्यू.डब्ल्यू. इण्डियन टुबेको.काम पर देख सकते हैं।

स्थानांतरण :

डा.ए.आर.पाण्डा, प्रधान वैज्ञानिक ने केन्द्रीय चावल अनुसंधान संस्थान, कटक से अंतर-संस्थानीय स्थानांतरण पर केन्द्रीय तम्बाकू अनुसंधान संस्थान अनुसंधान केन्द्र, कन्दुकूर में दिनांक 27.6.2003 को कार्यग्रहण किया।

कृषि विज्ञान केन्द्र

कृषि के विभिन्न पहलुओं पर 576 किसानों

क्षेत्रीय महिलाओं, ग्रामीण युवा और प्रसार कार्यकर्ताओं के लिए 26 प्रशिक्षण कार्यक्रम आयोजित किये गये।

के ला रेशा उत्पाद मशीन और कसीदाकारी एवम पोशाक तैयारी पर तीन गावों में लम्बी अवधि के तीन प्रशिक्षण कार्यक्रम आयोजित किये गये।

डा.के.देव सिंह, निदेशक, सी.टी.आर.आई., राजमंद्री ने दिनांक 30.6.03 को संयुक्त राष्ट्र विकास कार्यक्रम के 75 प्रतिशत आर्थिक अनुदान से 15 कोयर 2 प्लाई यार्न मशीनों को 15 लाभार्थियों में वितरण किया।

भारत के भूतपूर्व प्रधान मंत्री स्वर्गीय चौधरी चरण सिंह की जन्म शती के उपलक्ष्य में दिनांक 15.4.2003 को गुण्टूर में एक प्रदर्शनी आयोजित की गयी। माननीय कृषि मंत्री श्री अजित सिंह और अन्य पदाधिकारियों ने स्टाल को देखा और कृषि विज्ञान केन्द्र की क्रियाकलापों की सराहना की।

KRISHI VIGYAN KENDRA

Training programmes

- ❑ Twenty six training programmes for 576 farmers, farm women, rural youth and extension functionaries on different aspects in agriculture.
- ❑ Three long duration training programmes on "Banana fibre extraction" and "Embroidery and garment making" in three villages.
- ❑ Three training programmes on nutrition education, child rearing and PHT of fruits and vegetables for the extension functionaries in Bommuru and Sitanagaram villages.
- ❑ Three special sponsored training programmes on PHT of Fruits and Vegetables for 225 rural youth of Movva (E. G. Dt.), Kovvuru (W.G. Dist.), Bommuru and Rajahmundry (E.G. Dist.)

IVLP programme

Twenty women were trained in fabrication of low cost RHA based water filters at Katavaram village on 10.4.2003 and 15 water filters were distributed to the beneficiaries by Dr. K. Deo Singh, Director, CTRI, Rajahmundry.

UNDP programme

Under UNDP Programme, 15 coir 2 ply yarn machines were distributed to 15 beneficiaries with 75 per cent subsidiary given by UNDP on 30.6.03 by Dr. K. Deo Singh, Director, CTRI, Rajahmundry.

Exhibition

An exhibition was arranged at Guntur on 15.4.03 on the eve of birth centenary of Late Chowdary Charan Singh, Ex-Prime Minister of India. Sri Ajit Singh, Hon'ble Union Minister for Agriculture and other dignitaries visited the stall and appreciated the activities of KVK.

National Level Training cum Demonstration

National Level Training cum Demonstration on Banana Fibre Extraction was organized at CTRI from 27.05.2003 to 30.5.2003. A total of 100 farmers, traders and officials participated from different states of the country.



Dr. K. Deo Singh distributing Low Cost Water filters to the beneficiaries



Supply of coir machinery for UNDP beneficiaries

CENTRAL TOBACCO RESEARCH INSTITUTE RAJAHMUNDRY



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