

# Newsletter

**CENTRAL TOBACCO RESEARCH INSTITUTE, RAJAHMUNDRY - 533 105**

## RESEARCH HIGHLIGHTS

- At CTRI Research Station, Vedesandur two caterpillar resistant selections of sun cured and sun-cum-smoke cured chewing tobacco viz., HV 2000-2 and HV 2000-6, developed through back cross method of breeding showed stable resistance and higher productivity of 3608 and 3735 kg/ha of total cured leaf respectively than to check HV 86-2 and Abirami.
- Among 40  $F_1$  hybrids,  $F_{1.9}$  has been identified as the most promising in terms of high productivity (4222 kg/ha of total leaf and 3539 kg/ha of whole leaf) and significantly high standard heterosis (9.58% and 19.0%) over chewing tobacco variety, Abirami.
- 'Sunflower - tobacco' cropping sequence recorded the highest net return of Rs.62,702/ha. The B : C ratio (2.46) was higher with sole crop of chewing tobacco.
- Among the advanced chewing tobacco breeding lines tested in Vedaranyam area, HV 96-3 recorded numerically higher cured leaf yield of 3185 kg/ha with plant spacing of 80 x 90 cm and 150 kg N/ha.
- At CTRI Research Station, Hunsur, castor was found to be the most profitable followed by finger millet as a rotation crop with Kharif FCV tobacco.

## IDENTIFICATION OF NEW VARIETIES

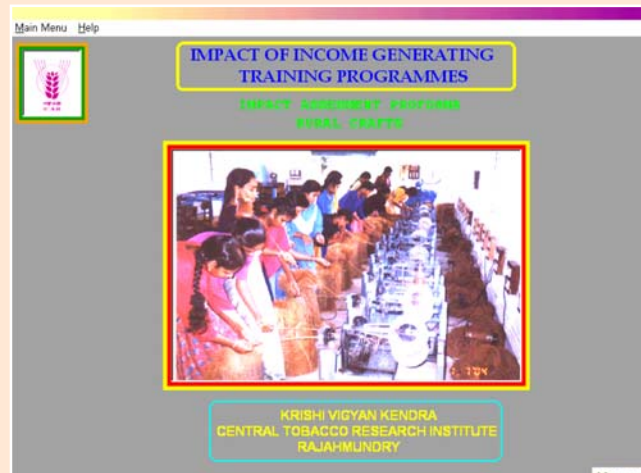
The Tobacco Variety Release / Identification Committee meeting was held at the Institute on 10<sup>th</sup> June 2004. Dr. K. C. Jain, ADG (CC), Dr. A. Satyanarayana, Director of Extension, ANGRAU; Director, CTRI and members from Tobacco Board, Trade and Industry attended the meeting. Two FCV tobacco varieties viz., "Hemadri"

(II-1624) for Central and Southern black cotton soils of Andhra Pradesh and "Kanthi" (Cy-79) for Southern light soils and Southern black soils of Andhra Pradesh; one Natu tobacco variety "Bhairavi" (NG-73) for rainfed areas and one burley tobacco variety "Sweta" (BSRB-2) for agency areas of Andhra Pradesh, were identified.

## Database Management System for Income Generation Training Programmes

A computer software was developed for facilitating access of detailed information on various training programmes conducted like number of trainees undergone in each training programme, toolkits received, monthly income earned, bank loans/ financial assistance taken, marketing of products, practicing skills developed, capital investment made. The information can be obtained either year wise or

trade wise which will be useful for the scientists in formulating new training programmes or to search for the information on a particular training programme. This software is flexible and provides on-line access of the information on required parameters. The user can take hard copies of the stored information and update the information on new training programmes from time to time.



## TRANSFER OF TECHNOLOGY

### TRAININGS

Dr. V. Krishnamurthy imparted training on 'Soil testing and irrigation water analysis for tobacco' to Sri K.N. Dinesh, Field Officer and Sri G. Nagasundar, Field Assistant from Tobacco Board, Periyapatna Auction Platform during 10 – 15 May, 2004 at CTRI, Rajahmundry.

### PUBLICATIONS

#### Technical Handouts

- 'Use of Well-grow for pest management in nursery' brought out by CTRI Research Station, Hunsur.
- 'Mid course corrections for, FCV tobacco crop due to heavy rains received in May month', brought out by CTRI Research Station, Hunsur.
- 'Model storage facility' brought out by CTRI Research Station, Hunsur.

#### Papers Published

- Anuradha, M., K. Nageswara Rao and D. Prabhakarababu. Nitrogen utilization, leaf pigment biosynthesis and breakdown in light and dark cast variations of FCV tobacco. *Tob. Res.* 29(2): 155-60, 2003.
- Karunakara Murthy, K., M.M. Shenoi and S.S. Srinivas. Quantification of yield and quality loss in tobacco due to brown spot disease caused by *Alternaria alternata* (FRIES). *Tob. Res.* 29(2): 80-7, 2003.
- Kasturi Krishna, S., S.V. Krishna Reddy and V. Krishna Murthy. Effect of spacing, levels of nitrogen and topping on yield and quality of irrigated natu tobacco variety Kommugudem grown in

alfisols of Andhra Pradesh. *Tob. Res.* 29(2): 126-32, 2003.

- Krishna Reddy, S.V., S. Kasturi Krishna and J.A.V. Prasad Rao. Effect of nitrogen and level and time of topping on productivity and quality of FCV tobacco variety K-326(NLS-4) grown in irrigated alfisols of Andhra Pradesh. *Tob. Res.* 29(2): 148-54, 2003.
- Kumaresan, M. and V. Krishnamurthy. Effect of N and P sources on the growth attributes, cured leaf yield and economics of chewing tobacco cv. Meenakshi under Vendasandur conditions of Tamil Nadu. *Tob. Res.* 29(2) : 133-7, 2003.
- Mahadevaswamy, M., C. Mahadeva, S.S. Srinivas and M.M. Shenoi. Nondestructive method of determination of leaf area in flue-cured Virginia tobacco varieties. *Tob. Res.* 29(2) : 164-6, 2003.
- Murthy, K.S.N., S.S. Prasad and D. Ramachandram. Micro-nutrient cation status of FCV tobacco grown in light soils of Karnataka - Monitoring studies. *Tob. Res.* 29(2); 88-95, 2003.
- Nageswara Rao, K., K. Siva Raju and D. Prabhakara Babu. Tobacco seed storage studies: 3 – Biochemical changes in stored seed and its relation to viability and seedling vigor. *Indian J. Agric. Res.* 37(4): 235-244, Dec. 2003.
- Nageswara Rao, K., D.P. Babu, J.S. Sai and N. Kantha Rao. A ventilating dryer for seed drying in tobacco. *Tob. Res.* 29(2): 161-3, 2003.
- Sitaramaiah, S., S. Gunneswara Rao and U.

Sreedhar. Biological control of tobacco pests in India. CTRI, Rajahmundry. 61 p. 2002.

- Sitaramaiah, S., U. Sreedhar, S. Gunneswara Rao, G. Ramaprasad and S. Nageswara Rao. Bio-intensive management of leaf eating caterpillar *Spodoptera litura* F. in tobacco nurseries. (In *Biopesticides and Pest management* Vol.2. Ed. By O. Koul, G.S. Dhaliwal, S.S. Marwada and J.K. Arora.) pp. 319-327, Campus Book Int. New Delhi, 2002.
- Siva Raju, K., C.A. Raju and K. Deo Singh. Isozyme variation in isolates of *Sclerotium rolfsii* infecting tobacco. *Tob. Res.* 29(2); 143-7, 2003.
- Siva Raju, K., K. Sarala and R.V.S. Rao. Variation in Polyphenol content of flue-cured tobacco varieties at different primings. *Tob. Res.* 29(2); 138-42, 2003.
- Sreedhar, U., S. Sitaramaiah and K. Deo Singh. IPM for sustainable tobacco production in India. SAIC Newsletter 13(3) : 8 & 11, 2004.
- Sreedhar, U., S. Sitaramaiah, S. Gunneswara Rao and G. Ramaprasad. Management of *Spodoptera litura* F. on chillies with NPV in coastal A. P. (In *Biopesticides and Pest Management*, Vol.2 Eds. O. Koul, G. S. Dhaliwal, S. S. Marwora and J. K. Arora, P.P.173-180. Campus Books Int. New Delhi, 2002.

### CONFERENCES/ TRAININGS/ WORKSHOPS

- Dr. K. Deo Singh, Director attended International Workshop on 'Protocols & Methodologies in Allelopathy (IWPMA)' at College of Basic

Sciences, CSK HP Agricultural University, Palampur from 2 - 4 April, 2004.

- Dr. K. Suman Kalyani, Sri S. Jitendranath and Sri P.V.V.S. Subrahmanyam from KVK attended 'Half yearly Workshop on KVK' at Tirupathi from 6 - 8 April, 2004.
- Sri H. Ravisankar attended the training programme on 'Linux Administration' at 'Linux Learning Centre', Bangalore from 10 - 19 May, 2004.
- Dr. K. Suman Kalyani, KVK attended National Extension Education Congress organized by Society of Extension Education at Maharana Pratap University of Agriculture and Technology, Udaipur from 22 - 24 May, 2004 and presented a paper entitled 'Roll stress of women in agriculture: An ecological perceptive.'

### RADIO TALKS

- High yielding tobacco varieties and package of practices for tobacco cultivation by Dr. K. Palanichamy on AIR, Madurai on 26.5.2004.
- Nursery management practices in tobacco by A.C. Rajasekaran on AIR, Madurai on 24.6.2004.
- అధిక ఫల దిగుబడికి పశుగ్రాసాల సాగు by Dr. B. John Babu, AIR, Vijayawada on 5.4.2004
- కొబ్బరివ్యర్ధాలతో అదనపు ఆదాయానికి అనేక మార్గాలు by R. Sudhakar, AIR, Vijayawada on 19.4.2004
- లంక భూముల్లో మొక్కజొన్న సాగు by S. J.Nath, AIR, Visakhapatnam on 23.4.2004
- వేసవిలో పళ్ళరసాల తయారీ by Smt. V.V. Lakshmi Kumari, AIR, Visakhapatnam on 12.5.2004
- వ్యవసాయంలో మహిళలకు శ్రమను తగ్గించే యంత్రాలు by Dr. (Mrs.) K.

Suman Kalyani, AIR, Visakhapatnam on 20.5.2004

- 'జోడిపి' గొర్రెల పెంపకం by Dr. B. John Babu, AIR, Visakhapatnam on 9.6.2004
- గృహ అలంకరణ వస్తువుల తయారీలో శిక్షణ by Smt. N. Aruna Kumari, AIR, Visakhapatnam on 19.6.2004
- నూనెగింజల, పప్పుదినుసుల ఆవశ్యకత by S. J. Nath, AIR, Vijayawada on 29.6.2004
- సోయా చిక్కుడు - పోషక విలువలు - వివిధ వంటకాలు by Dr. K. Suman Kalyani, AIR, Visakhapatnam on 2.6.2004
- మానవాళికి మేలుచేసే మందుల - ఇతర పారిశ్రామిక ఉత్పత్తులకోసం పోగాకు సేద్యం by Dr. C.V. Narasimha Rao, AIR, Visakhapatnam on 18.6.2004
- జీవనియంత్రణ విధానంలో పక్షులపాత్ర by S. Gunneswara Rao, AIR, Visakhapatnam on 23.6.2004

### T.V. TELECAST

- లేత బెండతోటలో రసం పీల్చు పురుగులు - నివారణ by Sri E. Vijaya Prasad, KVK on 11.4.2004 through ETV, Annadata
- మామిడిలో ఆకు గొడుగు నివారణ by Sri E. Vijaya Prasad, KVK on 25.4.2004 through ETV, Annadata

□ టమేటలో ఆకు ఎండు తెగులు - నివారణ by Sri E. Vijaya Prasad, KVK on 28.4.2004 through ETV, Annadata

□ Banana Fibre Extraction through mechanical means, by Sri R. Sudhakar, KVK on 22.5.2004 through ETV, Annadata

□ Guinea grass cultivation, by Dr. B. John Babu, KVK on 26.5.2004 through ETV, Annadata

□ బత్తాయిలో డ్రీప్పిజ్ నివారణ by Sri E. Vijaya Prasad, KVK on 27.5.2004 through ETV, Annadata.

### IN-HOUSE SEMINARS

□ Dr. T.G.K. Murthy, Sr. Scientist delivered a lecture on 'Transgenics in Indian Agriculture' on 17.4.2004

□ Dr. K. Deo Singh, Director gave a seminar on 'Allelopathy' consequent to his participation in International Workshop on "Protocols and methodologies in Allelopathy" held at Palampur on 31.5.2004.

□ Dr. G. Rajendran, Professor and Head, Dept. of Nematology, TNAU, Coimbatore gave a seminar on 'Yoga' on 28.6.2004.

### RESEARCH ADVISORY COMMITTEE MEETING

CTRI Research Advisory Committee meeting was held on 10 - 11 June, 2004. Dr. A. Satyanarayana, Chairman, Dr. K. C. Jain, ADG (CC), Dr. D. N. Yadav, Dr. A. P. Bhaduri, Heads of Divisions, Research Stations and AINRP (T) Centres and Scientists of the Institute participated in the meeting.



Dr. K. Deo Singh, Dr. D.N. Yadav, Dr.K.C. Jain, Dr. A. Satyanarayana & Dr. A.P. Bhaduri

## RETIREMENTS

1. Sri P. Mallannachari, Tech.T-3, CTRI Research Station, Hunsur, retired from Council's Service on 31.05.2004
2. Sri Ch. Pentaiah, S.S.Gr.IV, CTRI., Rajahmundry retired from Council's Service on 31.05.2004.
3. Sri Y. Subrahmanyam, Tech. T-1-3 CTRI, Rajahmundry retired from Council's Service on 30.6.2004
4. Sri B. Lova Raju, Tech. T-1-3, CTRI, Rajahmundry retired from Council's Service on Invalidation on Medical Grounds on 30.6.2004.
5. Sri M. Nachammal, S.S. Gr.I, CTRI Research Station, Vedasandur retired from Council's Service on 30.6.2004.

## APPOINTMENT

Sri S.K. Gajmoti, Administrative Officer, N.B.B.S.S. & L.U.P., Nagapur has assumed charge as Senior Administrative Officer, CTRI, Rajahmundry on 21.6.2004.

## VISITORS

### CTRI RS, HUNSUR

The following persons have visited the station:

- ❑ Mr. Ray Faasen, DIMON International on 24.5.2004
- ❑ Mr. Marmix Van Hyfte, Director, Asia Pacific, SQM, Europe on 08.6.2004
- ❑ Mr. Normelio Limberger, Agronomy Manager, Universal Leaf (Asia) Pte. Ltd. on 17.6.2004
- ❑ Mr. A Yogeshwar Rao, Area Manager, Standard Commercial Tobacco Company, UK on 28.6.2004

## RETIRED ICAR EMPLOYEES' ASSOCIATION REGIONAL MEET

Members of the Retired ICAR Employees Association, Rajahmundry Centre met on April 23, 2004 at CTRI Seminar Hall at 4.00 PM. Dr. K. Deo Singh presided over the function. Dr. K.V. Satyanarayana, gave a talk on "Transcendental meditation and its benefits to individuals and society." The meeting came to an end with the vote of thanks by Sr. V.V. Ramanarao, Secretary, Rajahmundry Centre of RICAREA.



## Digitization activities at CTRI

CTRI initiated Digitization of CTRI Publications. All the CTRI Newsletters published so far have been digitized and a CD was prepared.



## KRISHI VIGYAN KENDRA

- ❑ A total of 56 training programmes were conducted in agriculture and allied aspects. In all 1218 farmers, farm women, rural youth and extension functionaries were trained. Eight long duration training programmes and three programmes for extension functionaries were conducted. Sixteen news items on different topics were covered in regional language newspapers such as Eenadu, Vaartha and Andhra Jyothi for the benefit of farmers and village women.
- ❑ Animal Fertility Camp was conducted on 17.5.2004 at Mukkamala village and 42 animals were treated.
- ❑ Kisan Ghosti was organized on 6.5.2004 at Mukkamala village on IPM in pulses and 50 farmers participated in the programme.
- ❑ Exposure visit was organized on 5.4.2004 on paddy cultivation at A.R.S., Maruteru and 15 farmers participated in the programme.

Edited and Compiled by Y.V. Suryanarayana and Dr. C.V. Narasimha Rao,

DTP Type setting by Smt.N.Maheshwari, Photographs by N.V. Raju,

Published by the Director, CTRI, Rajahmundry -533 105, India

Ph: 0883-2449871-4, FAX: 0091-0883-2448341, E-mail: ctri@sify.com, Grams TABSEARCH

Printed at NIG, Vijayawada 520 002, Phone : 2435553, 9393435553