

IMPORTANT MEETINGS/ EVENTS HELD**Prof. K.V. Thomas, Hon'ble Union Minister of State for Agriculture visited CPCRI, Regional Station, Kayamkulam**

Prof. KV Thomas, Hon'ble Union Minister of State for Agriculture & Consumer Affairs, Food & Public Distribution, along with Shri K.C. Venugopal, Member of Parliament, Alappuzha and Dr. S. Rajan ADG (Hort.-I) visited the Regional Station, Kayamkulam on May 15, 2010 and reviewed the research activities. Dr. George V. Thomas, Director, CPCRI briefed the dignitaries on the salient achievements and future thrusts of the Regional Station. Dr. P. Anithakumari, Sr. Scientist (Ag. Extension) and Dr. P. Muralidharan, Programme Coordinator, KVK-Alleppey made detailed presentations on on transfer of technology programmes and farmer outreach activities currently undertaken by the Station. Hon'ble Union Minister while appreciating the research accomplishments also emphasized the need for more efficient delivery of technologies for the benefit of coconut farming community. He has desired that a comprehensive coconut development project for the entire Alappuzha district with focus on homestead farmers units with dwarfs/ root (wilt) tolerant varieties be implemented on a priority basis, in collaboration with Coconut Development Board, State Department of Agriculture and Local Self Government Institutions. On the occasion, the two dignitaries also performed the ceremonial planting of coconut seedlings in the campus.



Prof. K.V. Thomas, Minister of State for Agriculture along with Shri K.C. Venugopal, M.P. visiting the field at CPCRI, RS, Kayamkulam



Prof. K.V. Thomas, Minister of State for Agriculture planting the coconut seedling at CPCRI, RS, Kayamkulam on 15-05-2010

Foundation stone laid for the Administrative Building of KVK, Alleppey

The foundation stone for Administrative Building of KVK, Alleppey was laid by Prof. K.V. Thomas, Hon'ble minister of State for Agriculture, Consumer affairs, Food and Public distribution, Government of India in the presence of Sri. K.C. Venugopal, Member of Parliament, Alleppey on 15th May 2010. Dr. S. Rajan, ADG (Hort), ICAR, New Delhi, Dr. George V Thomas, Director, CPCRI, Kasaragod, Dr. P.M. Jacob, Head, CPCRI Regional Station, Kayamkulam and



Prof. K.V. Thomas, Minister of State for Agriculture laying the foundation stone of Administrative Building of KVK Alleppey

Dr. B.T. Rayadu from the Zonal Project Directorate (Zone VIII), Bangalore were also present on the occasion.

Innovative research concepts

Scientists from CPCRI, Kasaragod have presented innovative research concepts in their respective disciplines targeting emerging key researchable issues in the meeting held on 24-4-2010 under the chairmanship of Dr. H.P. Singh, Deputy Director General (Hort.). Dr. R. Manimekalai, Sr. Scientist (Biotechnology) and Dr. K. Subaharan, Sr. Scientist (Agrl. Entomology) got awards from DDG (Hort.), sponsored by Lt. Amit Singh Memorial Foundation for their best research concept notes. Dr. H.P. Singh, DDG (Hort.) also visited the laboratories and field experiments and discussed with the scientists on the progress of ongoing research programmes.



Dr. H.P. Singh, DDG (Hort.) reviewed the progress of field experiments at CPCRI, Kasaragod

Task Force Meeting on DUS Guidelines on Plantation Crops

Meeting of the Task Force for Plantation Crops was conducted at CPCRI, Kasaragod during 28-29th June, 2010 under the auspices of the Protection of Plant Varieties and Farmers Rights Authority, New Delhi. Dr. K.U.K. Nampoothiri, formerly Director, CPCRI and presently Director, Dr. M. S. Swaminathan Research Foundation, Koraput, Orissa chaired the meeting. Dr. H.H. Khan, formerly Project Coordinator, AICRP on Palms & member, Dr P.K Singh, Registrar, PPV & FRA & Member

Secretary, Dr. A.K. Malhotra IFS, Registrar General, PPV & FRA, Dr. George V. Thomas, Director, CPCRI along with scientists from CPCRI, Kasaragod, DCR, Puttur, CTCRI, Thiruvananthapuram, IISR, Calicut and RRII, Kottayam participated in the deliberations. Draft DUS guidelines for coconut and cashew were presented in the technical sessions. On 29-06-2010, presentations were made on DUS guidelines for Rubber, Spices and Tuber crops. After detailed deliberations, it was decided to submit the revised guidelines for coconut and cashew with the modifications and recommendations. It was also recommended that draft DUS guidelines be formulated for arecanut and cocoa.



Meeting of the Task Force chaired by Dr. K.U.K. Nampoothiri

Nursery Accreditation Committee visits CPCRI

A team constituted by the National Horticulture Board have visited coconut, arecanut and cocoa nurseries at Kasaragod, Vittal and Kidu to assess and grade the nurseries under the scheme on accreditation of horticultural nurseries. The team with Dr. Jagmohan Singh, Formerly Vice-Chancellor as Chairman, Shri P.K. Singh, Area Officer, NHB (South Zone), Bangalore, Dr. M.P. Giridharan, Associate Prof. (Hort.) Kerala Agricultural University, Shri Thirumaleshwara Bhat, Deputy Director of Agriculture, Govt. of Kerala, Kasaragod and Senior Assistant Director, NHB, Bangalore as members had visited the centres during 18th and 19th May 2010. They have inspected the infrastructure, facilities, mother palm blocks for production of quality planting material of mandate crops.



Nursery Accreditation Committee takes stock of cocoa nursery at CPCRI, RS, Vittal



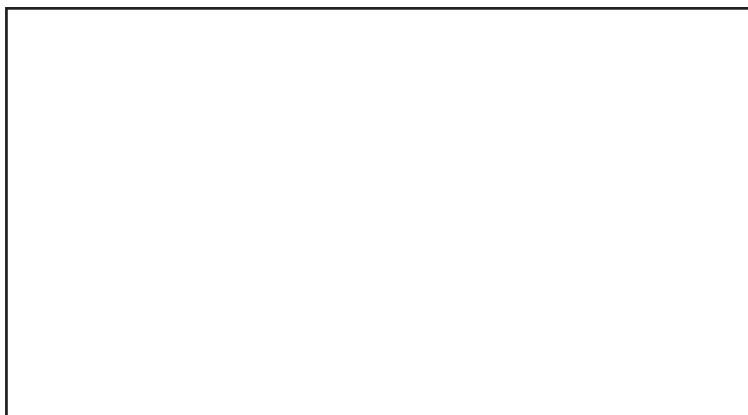
Nursery Accreditation Committee takes stock of the facilities at CPCRI, RC, Kidu

Institute Joint Staff Council meeting

The 6th Meeting of IJSC was held on 11-06-2010 at CPCRI Kasaragod under the chairmanship of Dr. George V. Thomas, Director. Various administrative and infrastructural issues, HRD, staff amenities and welfare measures were discussed and settled.

DISTINGUISHED VISITORS

Dr. P. Murugesaboopathi, Vice Chancellor, Tamil Nadu Agricultural University, Coimbatore visited CPCRI, Kasaragod on 26-3-2010. He visited the various laboratories and appreciated the technologies generated at CPCRI.



RESEARCH HIGHLIGHTS



Fruits of the coconut population of Vaibhavwadi, Sindhudurg district, Maharashtra

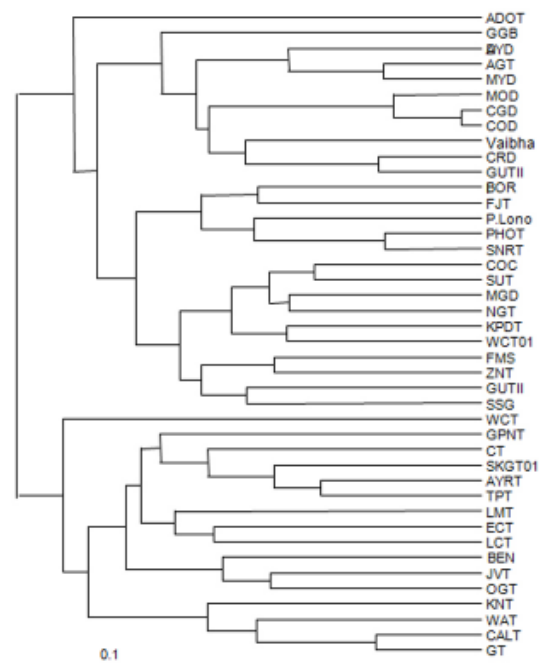
fresh fruit weight is comparatively low (around 42 %), indicating that the fruits belong to Niu Vai type. Similar large fruited Niu Vai coconut populations are available in the coconut gene bank maintained at the institute, viz. Borneo Tall, San Ramon Tall, Fiji Longtowan Tall, Federated Malay States Tall, Malayan Tall, Markham Tall etc. The microsatellite data aligned the Vaibhavwadi coconut population with the South East Asian accessions and the Dwarfs, which had originated in this region.

The coconut population of Vaibhavwadi includes low, medium and high yielding palms. By application of mother palm selection criteria, it should be possible to identify the high yielding mother palms for development of a superior population. The annual copra equivalent yield of this coconut population in comparison to other large fruited coconut accessions available at the institute is to be assessed to determine its superiority.

Enrichment of genetic resources in coconut

A coconut population with large fruits in a farmers' garden in Vaibhavwadi Tehsil, Sindhudurg district of Maharashtra was studied for morphological and fruit component traits. Seed nuts were collected for further evaluation and conservation. Embryos were also collected from the large sized fruits to assess the scope for its multiplication by plumular tissue culture.

The average nut yield in the sampled population is 31 nuts/palm/year. The estimated average copra yield is 3.07 - 5.77 kg/palm/year. The quality of tender nut water is good with TSS of 6.7 Brix. The average weight of mature fresh fruits is 1.72 kg and husked fruit is 976 g. The percentage of husk to



Dendrogram showing relationship of Vaibhavwadi coconut population with major coconut accessions of the world

Field planting of embryo cultured Sweet Kernel (*Mohacho Narial*) coconut at AICRP Centre, Ratnagiri, Maharashtra

The coconut type with sweet endosperm (*Mohacho Narial*), a variant among Benaulim population, is distributed in parts of Ratnagiri district in Maharashtra State. This accession is known to produce

nuts with sweet and soft kernel with less fibre content. Twenty seven palms of *Mohacho Narial* were located in Guhagar Taluk in farmers' garden and the farmers reportedly get a premium price for the sweet nuts which are mainly used for edible purpose. Nuts with sweet endosperm per bunch varied from 10 to 77 percent in different palms. Mean embryo weight of sweet endosperm nuts was significantly lower than normal nuts and they do not germinate normally. Embryo-rescue is the only means to propagate this rare accession. Nuts were collected to extract embryos and cultures *in vitro*. After hardening, embryo cultured seedlings of *Mahacho Narial* were handed over to AICRPP Centre, Bhatye for establishment of a coconut population producing sweet kernel. Few plants have already been field planted at this station.



Dr. R.V. Nair, Head, Crop Improvement field planting *in vitro* regenerated seedlings at RCRS, Bhatye

Pest surveillance in Lakshadweep Islands

A survey was undertaken in three Lakshadweep Islands *viz.*, Minicoy, Kavaratti and Kalpeni for studying the prevalence of various insect pests, assessment of current status of mite incidence and surveillance for the invasive pest, coconut leaf beetle (*Brontispa longissima*) in the island ecosystem. The average mite incidence in the Island showed a high infestation of 57.5% in Kavaratti, a moderate incidence of 23.2% in Kalpeni and a low infestation of 17.9% in Minicoy Island. Rat damage was found to be a recurring menace in all the islands. Rhinoceros beetle damage is at a low level in all the three islands. One of the important findings is that the lethal pest of coconut *viz.*, Red Palm Weevil is not recorded in any of these islands surveyed. Minor pests like scale insects, spiralling whitefly, plant hopper and lace bugs could be recorded sporadically in the Islands. The invasive pest, *Brontispa longissima* was not recorded from any of the islands including the uninhabited islet surveyed. Since the invasive pest had reportedly reached Maldives, Agricultural Officials of all the three islands were appraised of the need for constant monitoring of the pest as Minicoy Island is in close proximity to Maldives.

Outbreak of locust in Idukki district, Kerala

A pest surveillance team visited Melekuppachampady area near Kattapana, Idukki district, Kerala to assess the problem of outbreak of locust reported from the area. The pest was identified as coffee spotted grasshopper, *Aularches miliaris* (Acrididae: Orthoptera) which is highly polymorphic and gregarious. The main plantation crops cultivated in the area *viz.*, rubber, coffee, black pepper, cocoa, coconut and arecanut were not economically damaged by the grasshopper. The pest is confined mainly to *Erythrina indica* and weeds especially on *Clerodendron* sp., *Macaranga indica*, *Abutilon indicum*, etc. The present infestation level of the pest doesn't warrant any insecticide application. However, the pest build up in the area especially the emergence of adults needs to be monitored for identification and destruction of the egg laying sites for prevention of further recurrence of the pest.

VCO meal fortified pasta

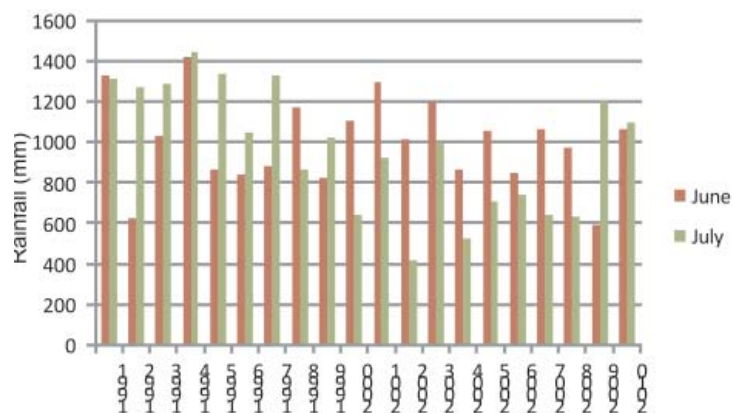


Production of pasta fortified with virgin coconut meal

VCO meal fortified pasta was developed, which can be served as ready-to-eat after rehydration for 3 to 5 minutes in hot water. Good quality VCO meal mixed with cassava powder, maida and gelatinized starch to which water is added and mixed thoroughly and the wet flour is fed to the feed chamber of the Pasta making unit. It is observed that VCO meal, the by product of VCO production process could be incorporated up to 20 %, ensuring better byproduct utilisation and higher profitability for the entrepreneurs.

More rainfall received during this year

While looking into the ten years data from 2001 to 2010 at Kasaragod, rainfall obtained in the months of June and July, 2010, has exceeded above the average rainfall. In June, it was 64.6 mm more than the last ten year average (1001 mm). Though in some of the previous years the rainfall received was more than this year, as it was 1299.8 in the year 2001, the lowest rainfall was in June 2009 where the received rain was only 589.6 mm. In July too, 1383.4 mm rainfall received, which was above average, which is the highest in the last ten years at Kasaragod. In last ten years period, only twice previously, in 2001 and 2003, the rainfall crossed above 2000 mm, average being 1815.6 mm. With an increase of 633.4 mm, rainfall received till the end of July 2010 is 35% above average this year.



PUBLICATIONS

Research Articles

- Chandrika Mohan and Rajan, P. 2010. Biology of *Campsomeriella collaris* Fab., a natural enemy of coconut white grub, *Leucopholis coneophora* Burm. *Insect Environment* **15** (4): 167-168.
- Krishnakumar, V. and Maheswarappa, H. P. 2010. Integrated nutrient management for root (wilt) diseased coconut (*Cocos nucifera*) palms. *Indian J. Agric. Sci.* **80** (5): 394-398.
- Murali Gopal, Alka Gupta, Palaniswami, C., Dhanapal, R. and George V. Thomas. 2010. Coconut leaf vermiwash : a novel bio-liquid from coconut leaf vermicompost for improving crop production capacities of soil. *Current Sci.* **98**: 1202-1210.

Paper presented in seminars, symposia, conferences

- Bobby Paul, Rajesh, M.K. and Naresh Kumar, S. 2010. Isolation and characterization of a cDNA sequence encoding MAP kinase induce during water stress in coconut. *In: Proceedings of Golden*

Jubilee National Symposium on Plant Diversity Utilization and Management, 27-29 May, 2009, Organized by Department of Botany, University of Kerala, Thiruvananthapuram (p.55-p.171).

Rajesh, M.K., Jiji George, Anjaly, S., Bobby Paul, Nithya, S., Jerard, B.A., Samsudeen, K. and Ananda, K.S. 2010. Molecular phylogenetics of arecanut and its wild relatives using three nuclear DNA sequences. *In: Proceedings of Golden Jubilee National Symposium on Plant Diversity Utilization and Management, 27-29 May, 2009, Organized by Department of Botany, University of Kerala, Thiruvananthapuram* (0.4.3.-p.114).

Abstracts on National Conference on Horticultural Biodiversity for Livelihood, Economic Development and Healthcare, UHS, Bangalore, 28-31 May, 2010.

Anitha Karun, Nagwekar, D.D., Samusdeen, K., Sajini, K.K., Radha, E., Rajesh, M.K., Ritto Paul, Bobby Paul and Nair, R.V. 2010. In vitro retrieval and diversity studies of Mohachao Narel coconut from Maharashtra. p. 12.

Bobby Paul, Rajesh, M.K. and Naresh Kumar, S. 2010. Diversity of rbcL gene sequences and its use in assessment of molecular phylogeny in Arecaceae. p. 19.

Elain Apshara, S. 2010. Biodiversity conservation and utilization in cocoa (*Theobroma cacao* L.). p.21.

Elain Apshara, S., Kalavathi, S. and Balasimha, D. 2010. Perception and adoption of demonstration farmers towards recommended pruning and cultivation practices of cocoa. p. 67.

Niral, V., Augustine Jerard, B., Samsudeen, K. and Nair, R.V. 2010. Evaluation of Coconut Genetic Resources for Ball Copra Production. p.30.

Popular articles

Anithakumari, P. and Chandrika Mohan 2010. Green fungus against black beetle, *Kerala Karshakan*. 56 (1): 20-23 (in Malayalam).

George, V. Thomas and Niral, V. 2010. Biodiversity in coconut for rich dividends. *Indian Horticulture*, 55 (3): Cover II.

Josephraj Kumar, A., Rajan, P., Chandrika Mohan and Jacob, P.M. (2010). Re-invasion and bio-suppression of spiralling whitefly, *Aleurodicus dispersus* Russell on coconut in Minicoy Island. *Indian Coconut J.* 53 (2): 20-23.

Lekha, G. 2010. Betel farming without pesticides, *Karshakan* 18(4): 53-54 (In Malayalam).

Ravi, S. and Shiny, R. 2010 Homeo treatment against Ranikhet disease, *Kerala Karshakan* 56(1):56-57 (in Malayalam).

Siddik, A., Jose, M., Thomas, R.J. and Jacob, P.M. 2010. Dwarf Coconut varieties suitable for Kerala climate, *Indian Naliker J.* 39 (5): 5-6 (In Malayalam).

Sivakumar, T. 2010. Protection against wax worm in bee colonies, *Kerala Karshakan*. 56(1): 34-35 (in Malayalam).

Book Chapter

Srinivasan, N. 2010. Advances in coconut leaf rot disease and its management measures. *In: Plant Diseases and its Management* (Ed: Trivedi, P. C.), Pointer Publishers, Jaipur, India, pp. 53-92.

Book

Singh, H. P. and George V. Thomas. 2010. Organic Horticulture – Principles, Practices and Technologies. Westville Publishing House, New Delhi. 440p.

Extension Folders

Chandrika Mohan and Anithakumari, P. 2010. Women-friendly biocontrol methods for management of rhinoceros beetle - a practical note (Malayalam). Information booklet No 3/10. CPCRI, RS, Kayamkulam.

HUMAN RESOURCES DEVELOPMENT / TRAININGS

Name of Personnel and Designation	Name of the programme	Place & duration
Dr. V. Niral, Sr. Scientist	National Workshop on GPA for conservation and sustainable utilization of PGR for Food and Agriculture	NBPGR, New Delhi 17-4-2010
	Training Workshop on GPA for conservation and sustainable utilization of PGR for Food and Agriculture	NBPGR, Regional Station, Thrissur 19-5-2010
Dr. N. Ravikumar, Sr. Scientist (Comp. Appl.) and Mr. H. Muralikrishna, Tech. Info. Officer	Creative writing in agriculture	IIMC, Dhenkanal, Orissa 3-5-2010 to 8-5-2010

SEMINARS/ SYMPOSIA/ CONFERENCES/ WORKSHOPS ATTENDED

Name of Personnel and Designation	Name of the symposium, seminar, conference or meeting	Place & duration
Dr. George V. Thomas, Director, Dr. Anitha Karun, Dr. K.S. Ananda, Pr. Scientists, Dr. S. Kalavathi, Dr. V. Niral, Dr. S. Elain Apshara, Dr. Regi Jacob Thomas, Sr. Scientists and Dr. D. Jaganathan, Scientist	National Conference on Horticultural Biodiversity for Livelihood, Economic Development and Healthcare (Swadesh Prem Jagriti Sangosthi-2010)	University of Horticultural Sciences (UHS), Bagalkot, Bangalore, 28-31 May, 2010
Dr. C. Thamban, Sr. Scientist	KVKs interface 2010 organised by Division of Agricultural Extension, ICAR	NASC Complex, New Delhi, 26-4-2010 to 27-4-2010
Dr. R. Dhanapal, Head, Div. Crop Production	Interface meeting of Director's/ Project Coordinators of Crop Science and Horticulture Division	Directorate of Weed Science Research, Jabalpur 17-18th May 2010
Dr. Chandrika Mohan, Sr. Scientist	XIX AICRP Workshop on Biocontrol of crop pests and weeds	Sher-e-Kashmir University of Agricultural Sciences and Technology-Kashmir, Srinagar 28-29 May 2010
Dr. D. Jaganathan, Scientist (Agrl.Extn.)	IT based decision support system for e-learning content management	NAARM, Hyderabad 2-8 June 2010

TRANSFER OF TECHNOLOGY

Kasaragod

Training

Special training programme on preparation of coconut chips

Special training programmes on 'Preparation of coconut chips' were organized on 05-04-2010, 28-04-2010 and 05-06-2010 in which a total of 52 entrepreneurs from Kasaragod, Kannur, Kozhikode, Malappuram, Thrissur, Kottayam, Kollam, and Thiruvananthapuram Districts participated.

Off campus programme

An off campus training programme on 'Mixed cropping of cocoa in coconut garden' was conducted at Kattamkavala near Chittarikkal in Kasaragod District on 10-06-2010. Dr. George V. Thomas, Director CPCRI inaugurated the training programme organised under NAIP. Mrs. Santhamma Philip, President, East Eleri grama panchayat, presided over the inaugural function. Cocoa seedlings were distributed to selected farmers for conducting the On Farm Testing of cocoa as mixed crop in coconut gardens under the National Agricultural Innovation Project.



George V. Thomas, Director CPCRI inaugurating the training programme and distributing cocoa seedlings to farmers for on farm trial

Off campus training programme on coconut climbing using mechanical device

An off campus training programme on coconut climbing using mechanical device was organised at Karadka, Kasaragod District on 26-05-2010 in which 30 rural men and women participated. Mr. Vinod Nambiar, Chairman, Standing Committee, Karadka grama panchayat inaugurated the training programme.

Water harvesting storage tank inaugurated under FPARP project

Mrs. Meenakshi Balakrisnan, President, Balal grama panchayat inaugurated the storage tank for run-off collection as a low cost water harvesting intervention constructed at Vallikadavu in Kasaragod District by Central Plantation Crops Research Institute under the project on farmer participatory action research programme (FPARP) on soil and water conservation and water





Water harvesting storage tank inaugurated under FPARP project at Vallikadavu

harvesting in the West Coast region of Kerala" sponsored by Ministry of Water Resources, Government of India. Dr. George V. Thomas, Director, CPCRI presided over the inaugural function.

Cyber Extension Programmes

Scientist-Farmer interface programme on coconut farming facilitated through videoconferencing was conducted on 10-06-2010. Scientists at CPCRI, Kasaragod, and coconut farmers from Kanchipuram and Thiruvallur, Tamil Nadu and CDB officials

gathered at CDB Regional Office, Chennai participated in the interface programme.

ATIC activities

A total of 778 visitors including farmers, extension personnel and students made use of ATIC facilities during the period. Technology inputs and products including planting materials, farm products, farm literature and CD ROMs worth Rs.4,27,017/- were sold through ATIC.

Radio discussion

Dr. C. Thamban, Sr. Scientist presented a radio discussion programme on 'Integrated management of bud rot disease of coconut', which was broadcast by All India Radio, Kannur on 14-06-2010.

A radio discussion programme on 'Experiences of women self group at Bedadka in production and marketing of coconut value added products under NAIP project' was broadcast by All India Radio, Kannur on 16-06-2010.

Phone-in programme

Dr. C. Thamban, Sr. Scientist participated in the Phone-in- programmes on 'Intercropping of tapioca in coconut garden' and 'Prophylactic control measures against bud rot disease' which were broadcast by All India Radio, Kannur respectively on 01-04-2010 and 12-06-2010.

Kayamkulam

Training Programmes

One day training on 'Recent advances in coconut cultivation, with special emphasis on plant protection operations in coconut' was imparted under ATMA programme to 23 farmers on 29-04-10 from Ayarkkunnam, Kottayam and 43 farmers from Muthukulam Block, Alappuzha.

One day training on Scientific Management of Coconut were given to farmer from Madurai District of Tamil Nadu and Kodagu, Karnataka, under the exposure visit programme.

A training-cum-field demonstration programme was conducted on Integrated management of rhinoceros beetle involving the use of pheromone traps, field release of beetles inoculated with *Oryctes*

rhinoceros virus, treatment of manure pits with *Metarhizium anisopliae* in Edava panchayat, Thiruvananthapuram district and Devikulangara Panchayat, Alappuzha district.

Training was imparted to 18 Assistant Agricultural Officers for Pathanamthitta district on "Selection of root (wilt) tolerant elite palm and pest management in coconut" at CARD-Krishi Vigyan Kendra, Thiruvalla under RKVY programme.

Eight technical staff from CPCRI, Kasaragod were given training on root(wilt) disease diagnosis and management during June, 2010.

Exhibition, visits and helpline services

Farmfest - 2010 organized by AIR during 23-25 April, 2010 at Cheriyanad, Alappuzha district. Advisory services were extended on various problems regarding coconut cultivation for 57 farmers who visited the station. Diagnosis of field problems was done at 12 farmers' fields. Seventy one farmers have utilized the help line service facility.

Vittal

Exhibition

CPCRI was awarded second prize in the category of 'Best Exhibition Stall' in connection with the National Conference on Horticultural Biodiversity for livelihood, economic development and health care at University of Horticultural Sciences, Begalkot, Bangalore during 28th -31st May, 2010. Director, CPCRI receives 'Best Exhibition stall' award.

Frontline demonstrations

FLDs on root grub management in arecanut were initiated at two farmers' gardens of Belthangady taluk of Dakshina Kannada district.

Mohitnagar

The centre has participated in "Foundation Day Celebration and Kisan Gosthi at NRC, Litchi, Muzaffarpur, Bihar on 6-6-10. Different arecanut and coconut based technologies and live exhibits were displayed in the exhibition arranged in this connection.

A total of 50 farmers of Naxalbari Block of Dareeling District of West Bengal visited the centre and scientific cultivation practices of plantation crops were explained to the farmers.



Director, CPCRI receiving 'Best Exhibition stall' award

Krishi Vigyan Kendra, Kasaragod

Training Programmes

A total of 14 training programmes were organised during the period where 313 trainees participated. Training was imparted to practicing farmers farm women, women self help groups, rural youth and extension functionaries on various topics like crop production, plant protection, post harvest processing, agricultural equipments, horticultural crops and allied enterprises. Out of these training programmes 7 were on-campus and 7 were off-campus wherein 133 (87 men and 46 women) and 180 (118 men and 62 women) trainees participated, respectively.

Frontline Demonstrations

Frontline demonstrations (FLD) on Coconut based mixed farming were initiated in Madhur village, (4 Ha.10 farmers), Arecanut based mixed farming in Badiadka village (2 Ha.10 farmers), Micro nutrient management in banana(2Ha.30 farmers) in Madikai village, Pepper production through bush pepper in 10 households in Vidyanagar, Farmer participatory management of bud rot disease in coconut in 15 homesteads in Bela village and Management of fruit flies in mango conducted in 100 households of Mogralputhur, Madhur and Muliya Panchayaths.

On-Farm Testing of Technologies

The technologies tested in farmers fields under on farm testing (OFT) are (i) Integrated management of stem bleeding disease in coconut in 5 farmers fields in Udma and Panayal villages, (ii) Control of foot rot disease of black pepper using bio-control agents in five farmers fields at Bela, Neerchal and Badiadka villages of Badiadka panchayath, (iii) Assessment of grafted pepper against foot rot disease of black pepper in arecanut garden in 5 farmers fields of Neerchal village, (iv) High density planting of banana in 10 farmers fields of Badidka village and (v) Management of pseudo stem weevil in banana. in 10 farmers of Badiadka village.



Training programme for women on jack fruit processing

Women's Cell Activities

The Women's Cell of KVK organised a total of 5 training programmes on processing and preservation of Jackfruit and trained 47 women participants.

Extension Services

KVK, Kasaragod carried out a total of 144 extension activities comprising of field days, film shows/video CD, advisory services, agricultural seminars, farmers visit to KVK, diagnostic visits, method demonstration, radio talks etc. where in 326 farmers (224 men and 102 women) and 19

extension personnel were appraised of modern production technologies of various crops and enterprises.

Dignitaries' visit to KVK

The committee on Private Members Bills and Resolutions of XIIth Kerala State Legislative Assembly including the Chairman, Shri K.V. Kunhiraman, Hon'ble M.L.A of Uduma, and members Shri Babu Paul M.L.A, Shri A.A.Shukur M.L.A, and Shri George M.Thomas M.L.A. visited Krishi Vigyan Kendra, Kasaragod on 11th June 2010. The Chairman and members were appraised of the facilities available at KVK for imparting training programmes and other TOT programmes like e-linkage, the soil water and plant testing laboratory, the plant health clinic, post harvest processing and nutrition laboratory, greenhouse, apiary, inland fish culture, high density coconut based cropping system. The committee also closely evaluated the training being conducted on the seasonal fruit processing for Kudumbasree members and coconut climbing with different climbing devices for the unemployed rural youths of Koraga community of Kasaragod district being carried out at KVK.



Hon'ble Members of Legislative Assembly observing the training facilities at the KVK, Kasaragod

Krishi Vigyan Kendra, Alleppey

Training programmes

KVK Alleppey has conducted the following trainings during this quarter

Sl. No.	Training	No.	Men	Women	Total
1	On Campus	16	143	156	299
2	Off Campus	4	62	38	100
3	Sponsored	7	56	116	172
Total		27	261	310	571

An entrepreneurship development training programme for on 'Knowledge and skill up gradation training for gardeners for employability in horticultural farm / units' funded by State Horticultural Mission was also conducted during the period.

Front Line Demonstration

Use of shell fired copra dryer - Field Day of the FLD programme on shell fired copra dryer was conducted at Mundol, Kumarapuram panchayath on 17-04-10. Dr. George V. Thomas, Director, CPCRI inaugurated the Field Day and interacted with the participants. Women groups



Training programme for women entrepreneurs on copra dryer

engaged in activity felt that the copra dryer is much useful for farm level coconut processing and thus the coconut oil extracted is of good quality. They have also suggested some modifications to be dryer for easy operation, especially for a women perspective.

Male calf rearing - Field day of the FLD on 'Cross-bred male calf rearing for income generation' was conducted on 21-05-10 at Kappil Milk Society premises, Krishnapuram Panchayath. The participants in the FLD were of the opinion that scientific rearing of male calves by giving calf starter up to eight months age will increase the body weight up to 105 kg and thereby provide a reasonable additional income to the dairy farmers.

BTT meeting/ Kisan goshti

The subject matter specialists of KVK attended the BTT meetings of ATMA in Chengannur and Cheppad blocks.

Exposure visits of farmers to KVK

A total of 95 farmers from Kazhakuttam, Kollam, and Cuddalore district of Tamil Nadu visited KVK - Alleppey during this quarter.

Other Extension activities

During this period the Krishi Vigyan Kendra organised various extension activities.

Helpline Services	: 630 nos.
Field Visits	: 7 nos.
Seminars	: 1 nos.
Farmers visit to KVK	: 488 nos.
Agroclonic services	: 99 nos.
Animal health campaign / vaccination	: 1no.
Diagnostic and scientific visits	: 25 nos.

Revolving fund scheme

Good quality vegetable seeds (8.0 kg), mushroom spawn (162 nos), earthworms (900 nos), planting materials (415 nos) and ME traps (1100 nos) were provided through KVK revolving fund activities.

ATMA - activities

The KVK organised 3 training programmes for the benefit of ATMA farmers from Alleppey district under the "Trainings within the State" programme.

'Harithavruthantham'- Technical SMS service to stakeholders of KVK

KVK continued the SMS service to ensure farmers linkage through mobile phones by sending 15 messages covering aspects like technology tips, important agriculture operations and training announcements to progressive farmers, line department and extension officials.

CELEBRATIONS

Recreation Club Day

The CPCRI Staff Recreation Club celebrated its 59th Annual Day on 7-5-2010. Renowned musician, Sangeetha Poornasree Sri. T P Srinivasan was the chief guest for the function. Various sports and cultural competitions were held in connection with the club day celebrations. Recreation club members and their family members presented various cultural events during the Annual Day.

The Annual Club Day Celebrations of the Regional Station, Kayamkulam was held at the on 8-4-2010. Dr PM Jacob, Head presided over the function and Sri Sabu Thiruvalla, noted Cine/TV Artist was the chief guest. Various entertainments such as music orchestra, thiruvathira dance and a drama entitled Shathabhishekam were performed by staff and family members.



Sangeetha Poornasree Sri. T P Srinivasan addressing the Recreation Club members at Kasaragod



Fancy dress competition during the Recreation Club Day at Kayamkulam

PERSONALIA

APPOINTMENT

Shri K.P.S. Gautam has joined CPCRI as Senior Administrative Officer on his transfer from Central Institute on Fisheries Technology, Kochi. He assumed charge on 15-6-2010 at CPCRI, Kasaragod. The CPCRI fraternity wishes him all the best in his present assignment.



Shri K.P.S. Gautam

Name of the staff	Designation	Place	w.e.f.
Dr. T.S. Manoj Kumar	Programme Coordinator, KVK	KVK, Kasaragod	19-04-2010
Dr. P. Geetha	Scientist (Agron.)	CPCRI, Kasaragod	23-04-2010
Dr. M. Alagar	Agri. Entomol.	CPCRI, RS, Vittal	23-04-2010
Mrs. Jeena Mathew	Soil Science	CPCRI, RS, Kayamkulam	23-04-2010
Mr. Sandhip Shil	Agri. Statistics	CPCRI, Kasaragod	24-04-2010
Dr. P.M. Jacob	Head	CPCRI, RS, Kayamkulam	03-05-2010
Shri Devaraj K.	T-3 Technical Asst. (Electrical)	CPCRI, Kasaragod	14-06-2010
Shri Sasi K.K.	Asst. Finance & Accounts Officer	CPCRI, RS, Vittal	16-06-2010
Smt. Sheeja P.P.	Stenographer Grade III	KVK, Kasaragod	21-06-2010
Smt. Rejitha K.R.	Stenographer Grade III	KVK, Alappuzha	22-06-2010

PROMOTION

Name of the staff	From (Designation)	To (Designation)	w.e.f.
Dr. C.T. Jose	Sr. Scientist (Agri. Statistics) CPCRI, RS, Vittal	Pr. Scientist (Agri. Statistics)	08-05-2008
Dr. H.P. Maheswarappa	Sr. Scientist (Agron.) CPCRI, Kasaragod	Pr. Scientist (Agron)	11-06-2008
Dr. Ravi Bhat	Sr. Scientist (Agron.) CPCRI, RS, Vittal	Pr. Scientist (Agron)	10-11-2008
Shri Senthil Amudhan	Scientist (Biochemistry) CPCRI Vittal	Scientist (SS) Biochemistry	05-11-2007
Dr. Arun Kumar Sit	Scientist SS (Hort.) CPCRI, RC, Mohitnagar	Senior Scientist (Hort.)	19-04-2008
Dr. R. Manimekalai	Scientist SS (Biotech.) CPCRI, Kasaragod	Senior Scientist (Biotech.)	20-11-2008
Dr. N. Ravikumar	Scientist SS (Comp. Appl. in Agri.) CPCRI, Kasaragod	Senior Scientist (Comp. Appl. in Agri.)	22-11-2008
Shri Jayasekhar S.	Scientist (Agri. Econ.) CPCRI, RS, Vittal	Scientist (SS) Agri. Econ.	05-09-2008
Shri M.I. Arif,	SSS, CPCRI, RS, Minicoy	T-1 JTA, CPCRI, RS, Kayamkulam	24-05-2010

TRANSFERS

Name of the staff / Designation	From (Place)	To (Place)	w.e.f.
Shri Jayasekhar S. Scientist (SS), Agri. Econ.	CPCRI, RS, Vittal	CPCRI, Kasaragod	24-06-2010
Shri Sandeep Shil, Scientist (Agri Statistics)	CPCRI, Kasaragod	CPCRI, RC, Kahikuchi	03-06-2010
Shri P.K. Krishnankutty T-1 JTA	CPCRI, RS, Vittal	CPCRI, Kasaragod	01-05-2010
Shri David Babu, T-1 JTA	CPCRI, Kasaragod	CMFRI, Kochi	19-6-2010

RETIREMENT

Name of the staff	Designation	From (Place)	On account of superannuation on date
Smt. V.S. Chellamma	SSS	CPCRI, Kasaragod	30-04-2010
Shri N. Sreedharan	SSS	CPCRI, Kasaragod	31-05-2010
Shri Vishwanatha Rai	T-5 Driver	CPCRI, RC, Kidu	31-05-2010
Shri Mohanan Nair M.	SSS(Guest House)	CPCRI, Kasaragod	30-06-2010
Shri BS Pushparaj	SSS	CPCRI, RS, Vittal	30-06-2010
Smt. Laxmi Chandalike	SSS	CPCRI, RS, Vittal	30-06-2010
Shri T. Kiran Sharma	SSS	CPCRI, RC, Kahikuchi	30-06-2010
Shri Ram Bahadur	SSS	CPCRI, RC, Kahikuchi	30-06-2010
Shri Kamaleshwar Deka	SSS	CPCRI, RC, Kahikuchi	30-06-2010
Shri Kushalappa Gowda	SSS	CPCRI, RC, Kidu	30-06-2010

OBITUARY

Shri A. Aji, Skilled Support Staff, CPCRI, RS, Kayamkulam passed away on 25-04-2010. Director and Staff of CPCRI mourn on his sad demise and pray the almighty that the berieved soul may rest in peace.