



CENTRE OF ADVANCED FACULTY TRAINING
AGRONOMY
Tamil Nadu Agricultural University
Coimbatore-641 003

Introduction

The actual genesis of the department was in the year 1959. The subject Agronomy had a status with the start of Post-Graduate programme in the year 1965. The Ph.D. programme was started in the year 1976. This Department is offering nine courses for various undergraduate programmes.

The objectives are to integrate and coordinate the research on soil and crop management in the component faculties, identify field problems on soil and crop management in the different Agro-Climate regions of Tamil Nadu, design integrated experimental approach for solving the field problems and formulate a comprehensive Soil and crop management technologies with emphasis on location specific approach.

Objectives of CAFT

- ❖ To strengthen the undergraduate and post-graduate (M.Sc.(Ag.) and Ph.D) teaching programme in crop production, water management, weed management, agro-climatology and dry farming and farming systems.
- ❖ To strengthen the research activities in the fields of crop management, soil fertility, weed management, cropping systems, farming systems and rainfed farming
- ❖ To conduct short-term training programmes for in-service candidates and to undergo training by the faculty members in the centres of excellence
- ❖ To adopt a village near by the University and demonstrate and transfer the advanced technologies to the farming community.

Human Resource Development

Particulars of short courses /training programmes for HRD conducted during XI Plan Period

S. No	Name of the programme	Period	No. of participants		
			Internal	External	Total
1.	Natural Resource Management For Sustainable Agriculture-A New paradigm	15.10.2007-04.11.2007	3	14	17
2.	Commercial Agriculture	21.01.2008-10.02.2008	3	17	20
3.	Recent advances in the production and utilization of pulses and oilseed crops	10.09.2008-30-09-2008	3	17	20

4.	Strategies for profitable agriculture	21.01.2009-10.02.2009	2	17	19
5.	Conservation Agriculture	03.03.2010-23.03.2010	3	15	18
6.	Productivity Enhancement in Drylands Through Diversified Farming Options	27.01.2011-16.02.2011	6	14	20
7.	Alternative framing System Options for enhancing food and nutritional security	09.11.2011-29.11.2011	-	-	21
8.	Natural resource management for suitable Agriculture	09.02.2012-29.02.2012			20

Faculty name and designation (as on 30.09.2011)

S. No.	Name and Designation	Expertise in identified areas of CAFT
1.	Dr. P. Subbian, Registrar	Soil fertility
2.	Dr. S. Jayaraman, Director (DCM)	Soil fertility
3.	Dr. P. Kalaiselvan (DEE)	Soil fertility
4.	Dr. G. Kathiresan Director (P&M)	Sugarcane Agronomy
5.	Dr. P. Muthukrishnan, Director, CAFTA and Professor and Head	Soil fertility
6.	Dr. K.Velayudham ,Professor	Forage crops and Soil fertility
7.	Dr. A. Velayutham, Pand H, Farm Mgt.	Pulse Agronomy
8.	Dr. R. Jagannathan	Agroclimatology
9.	Dr. K. Siddeswaran, Professor	Soil fertility
10.	Dr.M. Premsekhar, Professor	Soil fertility
11.	Dr. Venkitasamy, Professor	Soil fertility
12.	Dr. C.Chinnusamy, Professor	Weed Management
13.	Dr. C.Jayanthi, Professor	Farming system
14.	Dr. N. Asoka raja	Water management
15.	Dr. B.J.pandian ,Professor	Water management
16.	Dr. P.Manickasundaram, Professor	Water management
17.	Dr. N. Meyazhgan, Professor	Millet Agronomy
18.	Dr. K. Rajendran, Professor	Cotton Agronomy
19.	Dr. M. Balusamy, Professor	Farming system
20.	Dr.S.Manoharan, Professor	Dry farming
21.	Dr. K. Ramamurthy, Professor	Weed management
22.	Dr..L.Subbulakshmi, Professor	Rice Agronomy
23.	Dr.K.R.Latha, Professor	Pulse Agronomy
24.	Dr. K. Srinivasan, Professor	Oilseeds Agronomy

S. No.	Name and Designation	Expertise in identified areas of CAFT
25.	Dr. M. Mohammed Amanullah, Professor	Farming system and soil fertility
26.	Dr. M. Muralikrishnasamy, Professor	Soil fertility
27.	Dr. S.P. Ramanathan, Professor	Soil fertility
28.	Dr. A. Christoper Lorduraj, Professor	Water management
29.	Dr. E. Somasundaram, Assoc. Professor	Organic Farming
30.	Dr.K.Vaiyapuri, Associate Professor	Pulse Agronomy
31.	Dr.S.Pazhaivelan, Associate Professor	Pulse Agronomy
32.	Dr.S.Thiyageswari, Associate Professor	Soil fertility
33.	Dr.P.Janaki, Assistant professor	Soil fertility
34.	Dr.K.Govindaraj, Associate Professor	Agricultural economics
35.	Dr P.M.Shanmugam, Assistant Professor	Cropping system
36.	Dr. N. Sakthivel, Assistant Professor	Soil fertility
37.	Dr. N. Thavaprakash, Assistant Professor	Soil fertility
38.	Dr. M. Manivannan, Assistant Professor	Soil fertility
39.	Dr. R. Kalpana, Assistant Professor	Sorghum Agronomy
40.	Dr. S. Radhamani, Assistant Professor	Rice Agronomy
41.	Dr. S. Natarajan, Assistant Professor	Soil fertility

Infrastructure Development

From 2007 to till date many types of equipment have been purchased under various schemes and installed in the Department laboratory for the benefit of the post graduate students for analysis. The equipments purchased are furnished hereunder.

S.No.	EQUIPMENTS	QUANTITY
1.	pH meter	2
2.	Ec meter	1
3.	Colorimeter	1
4.	Spectrophotometer	1
5.	Flame photometer	1
6.	Leaf area meter	1
7.	Moisture meter	1

S.No.	EQUIPMENTS	QUANTITY
8.	HPLC	1
9.	Combined pH and EC meter	1
10.	Sonicator	1
11.	SPAD meter	1
12.	Gas chromatography	1
13.	BOD Incubator	1
14.	Erma Colorimeter	1
15.	Deep freezer	1
16.	Net house for studies under controlled conditions	1

Besides the above equipments, the following items were also made available to faculty and PG scholars.

S.No.	ITEMS	QUANTITY
1.	LCD projector	2
2.	Computers	6
3.	Xerox machine	1
4.	Printers	4
5.	Sprayers	4
6.	UPS	4
7.	Air conditioner	2
8.	Exhibition board with stand	10

Renovation of Lecture rooms / laboratories

The following renovation works were done during the period under report

- Installation of AC to lab for precision instruments.
- Renovation of laboratory with tile flooring
- New Laboratory work tables were purchased and installed.
- Exhaust fans were provided to the lab for better working by the students.
- Re- electrification of laboratory for providing additional electric points
- Laboratory was partitioned into instrument room, computer room etc.
- CAFTA training hall was renovated and provided with modern physical facilities.
- Two additional lecture halls (PG and Ph.D.,) were renovated with AC facility and visual aids viz., slide projectors and OHP facilities for PG students.
- Establishment of field lab for PG students for sample processing and biometric observations at garden and wetlands.
- A computer room with necessary furniture, Printers, UPS system, Air conditioner and vacuum cleaner

The equipments already available in the PG Laboratory are periodically serviced for better use by the P. G. students and research workers.

Equipment repaired and serviced under CAFT

S.No.	Equipments	Quantity (No.)
1.	Distil water unit	2
2.	Generator	1
3.	Xerox Machine	1
4.	Hot air oven	2
5.	Nitrogen distillation unit	1

Library upgraded

The contingencies provided under book purchase for every financial year were utilized to purchase text books on Agronomy and allied subjects. A separate library is being maintained at this Department with more than seven hundred books purchased under CASA. These text books are adequately referred by faculty as well PG students.

Books purchased under CAFT

S.No	Subject	Total
1.	Agri. Meteorology	11
2.	Agro-forestry	10
3.	Crop production	41
4.	Dry farming	19
5.	Fertility management	38
6.	Farming System and Ecological Agriculture	15
7.	Irrigation	21
8.	Weed Management	18
9.	Information Tech., other Facets in Agriculture	8
	Total	181

Awards and Recognitions

S.No.	Name of the Scientists	Award
1.	Dr.A.Selvarani	M/s Hexamer Award the best M.Sc.(Ag.) Thesis in Agronomy in chemical weed control
2.	Ms.M..Suganthi	M/s Coromondel India Products Pvt. Limited Award for the best M.Sc.(Ag) Thesis in Herbicides in Agronomy
3.	Th.V.Damodharan	PPIC Medal for the best thesis in efficient use of production of inputs for maximizing crop yields
4.	Ms.V.Vasuki	Special guest Dr.Panjab Singh

		Award for the best M.Sc.(Ag.) Thesis in Agronomy
5.	Dr.C. Chinnusamy	Best Scientist for weed control awarded by NRCWS.Jabalpur
6.	Miss.M.S.Mynawathi	Best M.Sc. (Ag) Thesis Award (2007) awarded by Indian Society of Weed Science.
7.	DWSRC, Coimbatore	Best Centre Award 2009-2010
8.	Department of Agronomy	Best Technology Exhibition Award
9.	Dr. C.Chinnusamy	ISWS Recognition award 2009 - 10
10.	Dr. C.Chinnusamy	ISA Fellow Award 2008
11.	Dr. C.Chinnusamy	Recognition Award for Research made for the advancement of science and community, TNAU
12.	Dr. K. Govindarajan	Recognition Award for Research made for the advancement of science and community, TNAU
13.	Dr. P. Subbian	ISA Fellow Award 2008
14.	Dr. M. Premsekhar	Sikhsha Rattan Puraskar Award
15.	Dr. S. Jayaraman	Scientist Award of TNAU
16.	Dr. P. Muthukrishnan	Scientist Award of TNAU
17.	Dr. A. Velayutham	Scientist Award of TNAU
18.	Dr. M. Mohamed Amanullah	Scientist Award of TNAU
19.	Dr. K. Siddeswaran	Scientist Award of TNAU
20.	Dr. P. Murali Arthanari	Scientist Award of TNAU
21.	Dr. S. Manoharan	Scientist Award of TNAU
22.	Dr. A. Selvarani	FAI Award
23.	Dr. K. Rama	FAI Award

Fellowships provided to the students

S.No	Name of Students	Fellowship provided
1.	Sunil A. Satya Reddy	ICAR junior Fellowship
2.	S. Srinivasan	Crystal Phosphates Ltd.,
3.	B. Jayakumar	Crystal Phosphates Ltd.,
4.	C. Sangeetha	Indofil Chemicals Company
5.	K. Nalini	Punjab Chemical and Crop Protection
6.	D. Ravisankar	Monsanto India Ltd.,
7.	C. Nithya	Monsanto Mahyco India Ltd.,
8.	R. Satyapriya	Crystal Phosphates Ltd.,
9.	C. Babu	Indofil Chemicals Company
10.	D. Kalaiyarasi	FMC India Ltd.,

11.	K. Sivagamy	Pioneer Overseas Corporation
12.	V. Ezhilarasi	United Phosphorus Ltd.,
13.	V.S. Mynavathi	GOI-DST
14.	V. Sridevi	ICAR 50 crore grant
15.	J.Gokila	Monsanto India Limited
16.	N.Jagath Jothi	TALCO – DINTEC
17.	R.Kuttimani	ITC – ABD Ltd
18.	K. Sathiya	Ministry of Textiles -GOI
19.	R. Nagarajan	European Union Project

Publications (2007-2008)

International

1. Mohamed Amanullah, M., K. Sathyamoorthi, K. Vaiyapuri, A. Alagesan and S. Pazhanivelan 2007. Influence of Organic Manures on the Nutrient Uptake and Soil fertility of Cassava (*Manihot esculenta* Crantz.) Intercropping Systems. *Intl. J. Agric. Res.* 2 (2): 136 – 144.
2. Vaiyapuri, K., M. Mohamed Amanullah, K. Sathyamoorthi, A. Alagesan and S. Pazhanivelan. 2007. Influence of Incorporation of Unconventional Green Manures on Growth, Yield attributes and Yield of Cotton (*Gossypium sp*). *Intl. J. Agric. Res.* 2 (1): 75 - 80.
3. Mohamed Amanullah, M., K. Vaiyapuri, K. Sathyamoorthi, S. Pazhanivelan and A.Alagesan. 2007. Nutrient Uptake, Tuber Yield and Soil fertility of Cassava (*Manihot esculenta* Crantz.) as influenced by Organic Manures. *J. Agron.* 6(1): 183-187.

National

1. Mohamed Amanullah, M., E. Somasundaram, A. Alagesan and K. Vaiyapuri. 2007. Influence of fertilizer and organic manures on the yield and quality of cassava (*Manihot esculenta* Crantz.). *Internat. J. Agric. Sci.* 3 (1): 181-186.
2. Mohamed Amanullah, M., E. Somasundaram, K. Vaiyapuri and A. Alagesan. 2007. Influence of fertilizer and organic manures on the yield attributes and yield of cassava (*Manihot esculenta* Crantz.). *Internat. J. Agric. Sci.* 3 (1): 205-208.
3. Mohamed Amanullah, M., K. Sathyamoorthi, K. Vaiyapuri and S. Pazhanivelan. 2007. Yield and Economics of Cassava (*Manihot esculenta* Crantz.) as influenced by Intercropping and Organic Manures. *Internat. J. Plant Sci.* 2(1) 18-22.
4. Vaiyapuri, K., M. Mohamed Amanullah and K. Sathyamoorthi, 2007. Influence of intercropping unconventional green manures on weed control, yield attributing characters and yield of Hybrid Cotton. *Internat. J. Plant Sci.* 2(1) 115-119.
5. Mohamed Amanullah, M., A. Alagesan, K. Vaiyapuri and S. Pazhanivelan. 2007. Effect of Iron on growth and Yield of Sorghum. *Crop Research.* 33 (3)
6. Mohamed Amanullah, M., K. Vaiyapuri, S. Pazhanivelan and A.Alagesan. 2007. Effect of organic manures on yield and quality of fodder Cowpea. *Researchon Crops.* 8(1)

7. Mohamed Amanullah, M., A. Alagesan, S. Pazhanivelan and K. Vaiyapuri. 2007. Effect of organic manures on yield and quality of fodder Maize. *Research on Crops*. 8(1)
8. Kaleeswari, R.K.2007. Role of phosphatase enzyme on phosphorus nutrition – A Review. *Agri.Rev.*, 27 (4) : 317-320.
9. Vennila. C and C. Jayanthi. 2007. Effect of integrated nitrogen management on yield, nutrient uptake and soil fertility under wet seeded rice + dhaincha - greengram system. *Crop Research* 14(1, 2&3) 21-24.
10. Balakrishnan, A., T.Selvakumar, K.Ponnuswamy and G. James Martin. 2007. Evaluation of suitable Tropical Sugarbeet hybrids and optimum time of sowing. In . 8th Agricultural Science Congress on Science for food, livelihood security and rural prosperity at TNAU, Coimbatore on Feb 15-17. 2007.Pp5.

Seminar / Symposia / conference abstracts

1. Latha, K.R., and A. Velayutham 2007. Studies on integrated nutrient management in pigeonpea based intercropping system. Eighth Agricultural Science Congress held at TNAU, CBE from Feb. 15-17, 2007.
2. Subbalakshmi Lokanadhan, Kasuam Lokanadhan, K.Thiyarajan and G.James Martin. 2007. Energy use and resource use efficiency of rice varieties and rice hybrids – Poster presented at 8th Agri. Science Congress held at TNAU, CBE-3 from 15-17th Feb.2007.
3. K. Vaiyapuri, M. Mohamed Amanullah, E. Somasundaram and P.K. Padmanathan. 2007. Influence of Methods of Irrigation on the Performance of Groundnut. 2006. 34-35. **In:** National Symposium on Conservation and Management of Agro resources in accelerating Food production for 21st Century conducted from 14-15 December, 2006 at IGKV, Raipur.
4. M. Mohamed Amanullah, K. Vaiyapuri, E. Somasundaram and K. Sathyamoorthi. 2007. Studies on Incorporation of Unconventional Green Manures on Growth, Yield attributes and Yield of Cotton (*Gossypium sp*). 240-242. **In:** National Symposium on Conservation and Management of Agro resources in accelerating Food production for 21st Century conducted from 14-15 December, 2006 at IGKV, Raipur.
5. Chinnusamy, C., N.K. Prabhakaran and G. Prabukumar. 2007. Tillage and weed management practices in maize – sunflower cropping system. In : National Academy of Agricultural Sciences, 8th Agricultural Science Congress, Feb. 15-17, 2007 held at Tamil Nadu Agric. Univ., Coimbatore. p.36.
6. Meena, S. C. Chinnusamy and R. Shanmugasundaram. 2007. Long term herbicide application on herbicide residue in soil and crop in rice-rice cropping system. In : National Academy of Agricultural Sciences, 8th Agricultural Science Congress, Feb. 15-17, 2007 held at Tamil Nadu Agric. Univ., Coimbatore. p.52 -53.
7. Prabhakaran,N.K., C. Chinnusamy and G. Prabukumar. 2007. Integrated weed management in maize – groundnut cropping system. In: National Academy of Agricultural Sciences, 8th Agricultural Science Congress, Feb. 15-17, 2007 held at Tamil Nadu Agric. Univ., Coimbatore. p.59.
8. Prabukumar,G., C. Chinnusamy and N.K. Prabhakaran. 2007. Evaluation of trifloxysulfuron 75 WG for weed control in winter irrigated cotton. In:

- National Academy of Agricultural Sciences, 8th Agricultural Science Congress, Feb. 15-17, 2007 held at Tamil Nadu Agric. Univ., Coimbatore. p.60.
9. Susheela, C., C.Chinnusamy, N.K. Prabhakaran, S. Ramasamy and K. Sathiyamoorthi. 2007. Evaluation of mechanical weeders in transplanted lowland rice. In : National Academy of Agricultural Sciences, 8th Agricultural Science Congress, Feb. 15-17, 2007 held at Tamil Nadu Agrl. Univ., Coimbatore. p.131.
 10. Vasuki, V., R. Jaganathan, C.Chinnusamy and P. Subbian. 2007. System based management of problematic weeds in sugarcane cropping system. In : National Academy of Agricultural Sciences, 8th Agricultural Science Congress, Feb. 15-17, 2007 held at Tamil Nadu Agrl. Univ., Coimbatore. p.36.
 11. Devasenapathy, P. and Kaleeswari, R.K. 2007. Soil carbon sequestration in an Inceptisol under Intensive Cropping System. Proc. on International Symposium on Organic matter Dynamics in Agro-Ecosystem.2007.372 held at Poitiers, France, 16-19 July, 2007.
 12. Kaleeswari, R.K. and Devasenapathy,P. 2007. Impact of Organics on Carbon Dynamics in Sandy Soil under Upland Rice Ecosystem. Soil carbon sequestration in an Inceptisol under Intensive Cropping System .Proc. on International Symposium on Organic matter Dynamics in Agro-Ecosystem.2007. 372 held at Poitiers, France,16-19, July, 2007.
 13. Kaleeswari, R.K. and Devasenapathy,P.2007.Kinetics and bioextraction of Boron as influenced by soil properties.Proc.ICOBTE held at Beijing,China,16-19 July,2007.
 14. Jayanthi, C., G. Vivek, C. Vennila and K. Nalini. 2007. Integrated farming system for efficient resource management for wetland and dryland ecosystems of western zone of Tamil Nadu in 8th National Science Congress, Tamil Nadu Agricultural University, Coimbatore- 641 003 on 15-17 February, 2007.
 15. Vennila. C and C. Jayanthi. 2007. Productivity and nutrient uptake of wet seeded rice as influenced by integrated nitrogen management. **In:** 8th National Science Congress, Tamil Nadu Agricultural University, Coimbatore- 641 003 on 15-17 February, 2007.
 16. Nalini, K and C. Jayanthi. 2007. Effect of dual cropping of green manure on productivity of semidry rice **In:** 8th National Science Congress, Tamil Nadu Agricultural University, Coimbatore- 641 003 on 15-17th February, 2007.

Chapters in training manual

- 1.P.Santhi, N.Maragatham, and K.Sathya, 2007. Renewable energy through residues of Field Crops. Book chapter for CASA training “Renewable energy source through bio-fuel crops” at Agronomy department, TNAU from Feb.20 to March 12, 2007.
2. K.Ponnuswamy, P.Santhi, A. Balakrishnan, K.Sathya, R.Gobi and K.Sathyamoorthi, 2007. Production technologies for sweet sorghum. Book chapter for CASA training “Renewable energy sources through bio-fuel crops” at Agronomy Department, TNAU from Fe.20 to March 12, 2007.
3. M. Mohamed Yassin, M. Mohamed Amanullah, K.Vaiyapuri and K.Sathyamoorthi. 2007. Silviculture of *Simarouba Glauca*. 114-119. **In:** Training Programme on Renewable Energy Sources trough Bio-Fuel Crops conducted between

20.02.2007 – 12.03.2007 organized by Centre of Advanced Studies in Agronomy, TNAU, Coimbatore - 3.

4. M. Mohamed Amanullah, M. Mohamed Yassin, K. Sathyamoorthi and K. Vaiyapuri. 2007. Production Technology for Cassava (*Manihot esculenta* Crantz). 125-132. **In:** Training Programme on Renewable Energy Sources through Bio-Fuel Crops conducted between 20.02.2007 – 12.03.2007 organized by Centre of Advanced Studies in Agronomy, TNAU, Coimbatore - 3.
5. K. Sathyamoorthi, M. Mohamed Amanullah, K. Vaiyapuri, M. Mohamed Yassin and T. Selvakumar. 2007. Straight Vegetable Oil as Biofuels. 211-214. **In:** Training Programme on Renewable Energy Sources through Bio-Fuel Crops conducted between 20.02.2007 – 12.03.2007 organized by Centre of Advanced Studies in Agronomy, TNAU, Coimbatore -3.
6. Jayanthi, C., C.R. Chinnamuthu, C. Vennila and K. Nalini. 2007. Role of tree borne oilseeds in Integrated farming system. **In:** Training manual on “Renewable energy sources through bio fuel crops”, 92-102.

Research Articles (2008-2009):

International

1. M. Mohamed Amanullah. 2008. Response of lowland rice varieties to reclamation practices in coastal saline soils. **J. Applied Sci. Res., 4 (7): 871-874.**
2. M. Jayakumar, K. Ponnuswamy and M. Mohamed Amanullah. 2008. Influence of Sources of Nitrogen and Intercropping on Pest Incidence, Yield Attributes and Yield of Cotton. Res. J. Agric. and Biol. Sci., 4 (2): 224 – 228.
3. K. Vaiyapuri, M. Mohamed Amanullah S. Pazhanivelan and E. Somasundaram. 2008. Influence of Intercropping Unconventional Greenmanures on Pest Incidence and Yield of Cotton. **J. Applied Sci. Res., 3 (12): 1710 -1716.**
4. E. Somasundaram, M. Mohamed Amanullah, K. Thirukkumaran R. Chandrasekaran, K. Vaiyapuri and K. Sathyamoorthi. 2008. Biochemical Changes, Nitrogen Flux and Yield of Crops due to Organic Sources of Nutrients under Maize Based Cropping System. **J. Applied Sci. Res., 3 (12): 1724 - 1729.**
5. Nalini, K., C. Jayanthi and C. Vennila. 2008. Dual cropping of green manure on yield, nutrient uptake and soil fertility in semi dry rice. Journal of Soils and Crops. 18 (1):19-23.
6. Vennila, C and C. Jayanthi. 2008. Response of okra to integrated nutrient management. Journal of Soils and Crops. 18 (1):36-40.
7. Vennila, C and C. Jayanthi, 2008. Effect of integrated nutrient management on yield and quality of okra. Research on crops. 9(1):73-75.
8. Vennila.C, C. Jayanthi and K. Nalini. 2008. Evaluation of planting pattern and nutrients growth and yield of *coleus forskohlii* intercropped with *phyllanthus amarus*. Crop Research. 36 (1, 2 &3) : 359-361.

National

1. E. Somasundaram and M. Mohamed Amanullah. 2008. Indigenous Knowledge (ITK): Organic Resource for Sustainable Agriculture. Green Farming. 1 (6): 37-39.
2. S. Pazhanivelan, M. Mohamed Amanullah, K. Vaiyapuri and M. Jeyachandran. 2008. Tree species for bio amelioration and restoration of sodic lands. Green Farming. 1 (8): 18-19.

3. K. Vaiyapuri, M. Mohamed Amanullah and S. Pazhanivelan. 2008. Nitrogen turn over, yield and pest incidence in cotton as influenced by *in situ* incorporation of unconventional green manures. Green Farming. 1 (9): 1-6.
4. M. Mohamed Amanullah, E. Somasundaram, K. Sathyamoorthi and P. Thukkaiyannan. 2008. Organic Farming in relation to food and environmental security - A Review. Green Farming. 1 (10 – 11): 5-10.
5. M. Mohamed Amanullah, M. Srikanth and P. Muthukrishnan. 2008. Soil Organic Carbon – An Index of Soil Health - A Review. Green Farming. 1 (12): 1 - 5.
6. K. Sathyamoorthi, M. Mohamed Amanullah, K. Vaiyapuri and E. Somasundaram. 2008. Growth and yield of greengram (*Vigna radiata* (L.) Wilczek) as influenced by increased plant density and nutrient management. Internat. J. agric. Sci., 4 (2): 499 – 505.
7. R. Chandrasekaran, E. Somasundaram, M. Mohamed Amanullah, K. Thirukumaran and K. Sathyamoorthi. 2008. Effect of foliar application of DAP and ZnSO₄ on groundnut productivity. Internat. J. agric. Sci., 4 (2): 548 – 550.
8. R. Chandrasekaran, E. Somasundaram, M. Mohamed Amanullah, K. Thirukumaran and K. Sathyamoorthi. 2008. Influence of plant growth promoting rhizobacteria on growth and yield of groundnut. Internat. J. agric. Sci., 4 (2): 604 – 606.
9. R. Chandrasekaran, E. Somasundaram, M. Mohamed Amanullah, K. Thirukumaran and K. Sathyamoorthi. 2008. Influence of *insitu* water harvesting and mulching on the performance of groundnut. Internat. J. agric. Sci., 4 (2): 643 – 645.
10. K. Sathyamoorthi, M. Mohamed Amanullah, E. Somasundaram and K. Vaiyapuri. 2008. Yield attributes and yield of greengram (*vigna radiata* (L.) wilczek) as influenced by increased plant density and nutrient management. Internat. J. agric. Sci., 4 (2): 719 – 724.
11. P. Thukkaiyannan, N. Satheeskumar and M. Mohamed Amanullah. 2008. Green manuring and phosphorus fertilization on growth and yield of irrigated cotton. Green Farming. 1(10-11): 29-31.
12. K. Sathyamoorthi, M. Mohamed Amanullah, E. Somasundaram and K. Vaiyapuri. 2008. Influence of increased plant density and nutrient management on the yield and economics of greengram (*vigna radiata* (L.) wilczek). Internat. J. Plant Sci. 3 (2): 450-455.
13. K. Sathyamoorthi, M. Mohamed Amanullah, K. Vaiyapuri and E. Somasundaram. 2008. Influence of increased plant density and nutrient management on the growth rates and yield of greengram (*vigna radiata* (L.) wilczek). International J. Plant Sci. 3 (2): 626-632.
14. K. Vaiyapuri, M. Mohamed Amanullah, E. Somasundaram, K. Sathyamoorthi, and S. Pazhanivelan. 2008. Post harvest soil chemical and physical properties and cotton yield as influenced by intercropping unconventional green manuring in cotton. Green Farming. 2 (1): 4-7.
15. M. Jayakumar, K. Ponnuswamy and M. Mohamed Amanullah. 2008. Effect of Intercropping and Sources of Nitrogen on Yield, Nutrient Uptake in Cotton and N budgeting. Green Farming. 2 (1): 12-15.
16. K. Sathyamoorthi, M. Mohamed Amanullah, E. Somasundaram, S. Pazhanivelan and K. Vaiyapuri. 2008. Root Growth and Yield of Greengram (*Vigna radiata* (L.) Wilczek) as influenced by increased Plant Density and Nutrient Management. Indian J. Crop Sci. 3 (1):
17. K. Sathyamoorthi, M. Mohamed Amanullah, E. Somasundaram, K. Vaiyapuri and S. Pazhanivelan. 2008. Physiological Parameters and Yield of Greengram (*Vigna*

- radiata* (L.) Wilczek) as influenced by Increased Plant Density and Fertilizer Levels. Indian J. Crop Sci. 3 (1):
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 19. K. Vaiyapuri, M. Mohamed Amanullah, E. Somasundaram, K. Sathyamoorthi and S. Pazhazniveelan. 2008. Post harvest soil chemical and physical properties and cotton yield as influenced by intercropping unconventional green manuring in cotton. Green Farming. 2 (2): 1-6.
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Financial Statement

Expenditure under CAFT during XI plan

Head	2007-08	2008-09	2009-10	2010-11	2011-12 (upto Sept 2011)
Cost of Personnel	-	-	157335	2,05,090	1,07,074
Operating cost of Training	354000	354000	171000	330551	-
Recurring Contingency	199637	199406	149589	199832	60,083
Non Recurring	-	-		-	-
TA	93282	47191	15982	25126	15,520
Library	49976	50000	29828	29941	-
Total	696895	650597	523734	790540	-