RURAL AGRICULTURAL WORK EXPERIENCE (RAWE)

Anbil Dharmalingam Agricultural College & Research Institute
Trichy-9

<table>
<thead>
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<th>Students List (2011-2015 Batch)</th>
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<tbody>
<tr>
<td>1. T.Agalya – BSA-11-603</td>
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<td>2. M.Amrutha Unni – BSA-11-604</td>
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<td>3. E.Deepa – BSA-11-618</td>
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<td>4. G.Kanimozhi – BSA-11-629</td>
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<td>5. T.Pavithra – BSA-11-647</td>
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<td>6. P.Sheelarani – BSA-11-658</td>
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<td>7. K.Tamil Akarathi – BSA-11-668</td>
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<td>8. S.Vaitheeswari – BSA-11-671</td>
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<td>9. S.Sugumathi – BSA-11-683</td>
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INTRODUCTION

The students from ADAC & RI, Trichy will be contacted the following departments / organization to learn knowledge about agriculture related activities and transfer of technology to farmer

1. CREED Krishi Vigyan Kendra, Ariyalur District
2. Department of Agriculture, Ariyalur
3. Department of Horticulture, Ariyalur
4. Department of Animal Husbandry, Ariyalur
5. Department of Agricultural Engineering, Ariyalur
6. Department of Revenue, Ariyalur
7. Contact farmers
8. CREED NGO and
9. Agriculture related industrial tie-up
Maize sowing experience
Regulated market
Black gram seed treatment and DAP spraying demonstration in Chinnappa farmer
Visit to JR oil mill – Jayankondam
Visit to Godrej Agrovet Limited – Varanawasi
Visit to Devamangalam Cotton silk handloom weavers cooperative society
Cashew Processing unit - Jayankondam
Soil Testing Lab – Ariyalur
Tamil Nadu News Print and Paper Limited (TNPL)
Agricultural Engineering Department
Learnt about preparation of Vermiwash and its uses
Farmers market
Horticultural crops propagation
Goat rearing
Training and Demonstration on Vemicompost production
Pre season camp on groundnut at Kasankottai village
Agri Clinic and Agri Business Centre
Seed processing unit in Thirumanur
Kuruvai Special package scheme - Collector and JDA visit to Exhibition
Neem coated urea demonstration to farmers
Veterinary Hospital
Learnt about Solar water pumping unit in farmer field
Learnt about NGO activities
Review meeting by Head of the Departments from ADAC & RI, Trichy
Tree planting in Government Primary School at Cholamadevi village
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Maize Sowing Experience

Undergone sowing in the maize field. It was based on seed treatment in hybrid maize. The source of irrigation by drip conducted by Mr.Velmurugan (PP) at CREED KVK.

Regulated Market

We visited regulated market worked at Jayankondam and observed various tender activities of farmers and traders. The Supervisor explained about the function and goals of regulated market.

Blackgram seed treatment and DAP spraying demonstration in Farmers field

We demonstrated the seed treatment of blackgram by Carbendazin 2gm/kg, Azospirillum 40gm/kg, Rhizobium 40g/kg, Rice Cruel 1 cup and DAP spraying for flower boost to get more yield in blackgram in Chinnappa farmer field at Devamangalam village. We also learnt about the micro nutrient apply and farm record keeping.
JR Oil mill (Industrial tie-up)

We visited JR oil mill at Jayankondam. JR oil mill started in the year 2002. In this mill, the oil was extracted from groundnut & gingelly and we learnt about extraction of oil, packaging and marketing.

Godrej Agrovet Limited (Industrial tie-up)

We visited Godrej Agrovet Limited located in Varanawasi, which was started in the year 2003 (Trial production). We learnt about oil palm production and its cultivation practices, its nutrient management. We observed and learnt about the oil palm extracting machineries and its turnover per year.
Cotton-Silk handloom Weavers Cooperative Society (Industrial tie-up)

We visited Cotton silk handloom weaver cooperative society Limited at Devamangalam village and learnt about setup and function of the society. We observed the weaving process of the society members, which was explained by Mr.Anandhan, Manager of the Society.

Cashew Processing Unit, Jayankondam

We visited Cashew Processing unit at Jayankondam and observed separation of kernel from the shell and different grading of cashew kernel and export to different markets.

Soil Testing Lab

We visited Soil Testing Lab in Ariyalur and observed the different types of soil, soil EC, pH, lime status, soil texture and micro nutrient present in the soil, recommended of N, P, K in soil. This lab functions was explained by Miss.Shanthi, Agricultural Officer.
Tamil Nadu News Print and Paper Limited (TNPL)

We visited Tamil Nadu News Print and Paper Limited (TNPL) at Jayankondam and learnt about various activities like contact farming, tree plantation, schemes and subsidies given by the Forestry department. We also learnt about the crops of pulp wood species like Casuarinas, Eucalyptus, Bamboo, Malaivembu. Mr. Baskaran, Forest Officer explained about the activities.

Department of Agricultural Engineering

We attended the class about Agricultural Engineering taken by Mr. Kalaimani, Junior Engineer and Mr. Naganathan, Assistant Engineer of Ariyalur district. We also observed and learnt about the working of laser land leveler, baler, solar water pumping and various agricultural engineering machineries and its uses and various demonstration.

Vermiwash and its uses

We observed the process of Vermiwash, which was explained by Mr. Velmurugan (PP), CREED KVK. We learnt that Vermiwash water is one of the growth regulator.
Farmers market

We visited the Farmers market at Ariyalur. Various functions were explained by Mr. Tamilselvan, Manager and we observed about around 50 stalls and activities of farmers (Selling and Buying).

Horticultural crop propagation

We attended horticulture class conducted by Mr. Y. Raja Joslin, CREED KVK and we observed various horticultural crop propagation like Crotons, Poyual palm, Fish tail palm, Chinese palm and also he demonstrated ground layering on guava and we visited the nursery and mother plants propagation field of mango and guava.

Goat rearing

We visited farmer Mr. Ravi, who is having goat rearing unit in Kodalikaruppur village. The unit has dimensions of 40 ft. x 25 ft. Around 50 goats are there. The expenditure incurred for making the goat shed was Rs. 6.00 lakh.

Variety of breeds and goats like Telicherry, Jamunapari, Kanni Aadu, Naattu Aadu, etc. The main feeding are sorghum grains, veli masal, cumbu, agathi. For one day 2 kg feed was required. These goats are mainly grown for meat consumption.
Training and Demonstration on Vermicompost production

Training and demonstration on Vermicompost production was conducted by Mr. R. Velmurugan (PP), CREED KVK at Suthamalli village in Mrs. Visalatchi, farmer field. It is having vermicompost unit width of 1 m, length of 3 m. One shed requires 1000 kg of farm yard manure and 2 kg of earthworms released. One kg of earthworms cost Rs.300/= (TNAU poly sheet method). Daily sprinkle the water, after 30 days stop the water for 3 days, which produces 500 kg of vermicompost.

Preseason camp on Groundnut at Kasankottai village

Preseason camps was conducted in Kasankottai village in the farmer field of Mr. Asokan. The camps was facilitated by Mr. R. Velmurugan (PP) and Mr. Y. Raja Joslin (Horticulture) CREED Krishi Vigyan Kendra, Cholamadevi. They taught about methods of cultivation for groundnut and its pest and disease management. Exhibition was arranged by RAWE students. The concept LCC (Leaf Color Chart) was also discussed in the camp. The technique for quality seeds selection before sowing was demonstrated by Mr. R. Velmurugan.
Agri Clinic and Agri Business Centre

We attended a class about Agri Clinic and Agri Business Centre, which was taken by Mr. R. Velmurugan, (PP), CREED KVK. Certificate for self employment to agri graduate from the centre is one of the primitive part of starting to Agri Clinic, with the help of certificate we can get the loan upto Rs. 5.00 lakh per individual from the NABARD.

Seed Processing Unit

We visited seed processing unit at Thirumanur of Ariyalur district. Mr. Anantharaman, Assistant Seed Officer explained about the seed certificate procedure and time of inspection. We also observed and elaborately discussed about the various seed processing equipments and its working principle including seed testing.

Kuruvai Special Package scheme Collector and JDA visit to Exhibition

Government of Tamilnadu introduces Kuruvai special package scheme – 2014 to farmers. This programme was held at ADA office of T. Palur block. The programme was headed by Mr. Saravanavelraj, Collector of Ariyalur District. Mr. Gunasekaran, Joint Director of Agriculture, Mr. Palanisamy, Assistant Director of Agriculture, T. Palur block, Miss. Suganthi, Agricultural Officer, CREED KVK Subject Matter Specialists Mr. Raja Joslin, Mrs. N. Umachandra and B. Vivekananthan, Programme Assistant Mr. Raja, and Mr. Sivakumar, Assistant Agricultural Officers were participated in the programme.
Around 100 farmers from various village had participated in this programme and demonstration on seed treatment in rice was given by RAWE students. Collector distributes power weeder to the farmer at free of cost through the scheme.

**Neem coated urea demonstration for farmer**

The technique of neem coated urea was demonstrated by us in the farmer field at Cholamadevi. If urea applied without neem oil, it will be easily evaporated and not available to the crop. If urea coated with neem oil, it will reduce or control the evaporation of urea and make available of plants. It is also one of the organic neem coated urea.

**Veterinary Dispensary**

We visited Veterinary dispensary located at Kodalikaruppur village. Class was taken by Dr. Vasuki, VAS. She explained about setup and activities of veterinary dispensary. We learnt about cattle, breeds of buffalo, goat rearing, poultry and fodder for cattle and their disease and management to increase the livestock population.

**Solar water pumping unit in farmer field**

We visited the farmer Mr. Karthikeyan field at Thirumanur, he cultivating sugarcane of about 5 acre and irrigating the field by using solar water pumping. It consists of 17 panels, 1 panel=285 watts. With the help of this, he is irrigating the field 8 hr/day. The cost for fitting solar water pumping unit was Rs. 3.00 lakh. Government is providing subsidy for about Rs. 1.00 lakh.
Learnt about NGO activities

CREED NGO, located head office in Chidambaram and it working place of Cuddalore and Ariyalur district. We learnt about various activities of Tsunami Rehabilitation Project, Women Self Help Group livelihood empowerment and farmer community improvement activity and Preparation of project report, which was explained by Mr.V.Neelakandan, and Mr.R.Velmurugan, CREED KVK.

Review meeting by Head of the Departments from ADAC & RI, Trichy

RAWE programme review meeting held at CREED KVK. Professor and Heads, Dr.Thiyagarajan (Agrl. Extn.) Dr.Chandrasekar (Agrl. Entomology) and Dr.Balasubramanian (Soil Science) and Assistant Professors Dr.Ezhanchezhiyan (Agrl. Economics), Dr.Periyar Ramasamy (Agrl. Extension) were reviewed students different activities done for the past three months. The team members visited KVK farm especially student planted onion field.

Tree planting in Government Primary School at Cholamadevi village

Tree planting programme was conducted by RAWE students in Government primary school at Cholamadevi village. Chief guest of Professor and Heads, Dr.Thiyagarajan (Agrl. Extn.) Dr.Chandrasekar (Agrl. Entomology) and Dr.Balasubramanian (Soil Science) and Assistant Professors Dr.Ezhanchezhiyan (Agrl. Economics), Dr.Periyar Ramasamy (Agrl. Extension) and CREED KVK members A.Rajkala, Programme Coordinator (i/c.), Y.Raja Joslin, SMS (Horticulture), N.Umachandra, SMS (Home Science) and R.Velmurugan, Farm Incharge and School Head Mistress Tmt.Samanasu Mary and teachers were participated in the programme.

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1. Integrated Farming System Model

Name of the farmer: Mr. Renganathan
Village: Cholamadevi
Area: 20 acre

Mr. Renganathan, a progressive farmer aged 61, residing at Cholamadevi village of T. Palur block, Ariyalur district, Tamil Nadu, who is having 20 acres of land following Integrated Farming System.

He is cultivating 2 acre of paddy variety of ADT-43 and CR 1009 and he has 3 bore wells at 420 and 310 and 290 feet for managing the water to the field.

He told that he is cultivating intercrop of various crop namely

Teak + Mango
Teak + Amla
Teak + Lemon
Mango + Guava
Sapota + Mango + Amla

By following this, he is getting sustained income.

Farm Pond

To recharge the ground water table, he made farm pond of area 30 cent at 5 feet depth. He is also rearing fish in farm pond. The varieties are Catla,
Roghu, Mirga species are there. Daily food for fish is rice bran, cow dung, maize powder. Totally 500 fingerlings are there. They are harvested after 8 month and also he utilize this farm pond water for the critical period of the crop. By doing this he is earning an additional income.

**Livestock Population**

He told that he is having 2 milch animal, 4 goats, 40 poultry birds, the wastage of poultry bird was utilized for fishery cultivation.

**Agroforestry crops**

He is also cultivating Eucalyptus tree of 0.5 acre and causurina of 1 are to get additional income.

**Horticultural crops**


In Coconut, Rhinoceros beetle is more and he control that by using light trap.

**Vermicompost Unit**

We also visited to vermicompost unit of Mr.Renganathan farmer field, its dimension is 12x 4 feet. He harvests the vermicompost after 40 days.

Thus Mr.Renganathan famer is doing Integrated Farming System (IFS) model and earning additional income by utilization of resources efficiently.
Name of the farmer : Mr.A.Chinnappa
Village : Devamangalam
Area : 7 acre

Mr.Chinnappa, a progressive farmer aged 55 residing at Devamangalam village of Jayankondam block, Ariyalur district, who is having 7 acres of land cultivating blackgram, tuberose.

He started seed production in blackgram in his 7 acre of land through drip irrigation, sprinkler and flood irrigation.

When compared to flood irrigation, drip and sprinkler irrigation gave him a good yield, while broadcasting this seeds, he use Rotavator for easy mixing of oil and seeds.

Totally he had 7 acre of land and he gave irrigation by following bases. 2 acre sprinkler, 3 acre drip irrigation, 1 acre flood irrigation, 1 acre teak cultivation.

Seed treatment in blackgram

He used to cultivate in the variety VBN-5, treat the seeds (5 kg) with Carbendazin or Thiram 2g/kg after 24 hours treat the seeds with Rhizobium 250gm and Phosphobacteria 250 gm. Add rice cruel for sticking purpose dry it under shade for 3 hours.

In main field, application of 5 kg of micro nutrient mixture mixed with 20 kg of soil and it will be broadcasted in the field. Micro nutrient mixture contains Boron, Fe, Zn, Mn, MO.
Application of DAP Spray

2 % DAP spray for 100 lit of water and 2 kg of Diammonium phosphate. After 12 hours filter it, and spray it in the field.

Seed production in blackgram

White tag provided to the seed after certification of seeds. 25 days after saving, registration will be done. The field will be visited by AAO, AO and ADA from Seed Certification Department. SCO (Seed Certification Officer) inspect the field 2 times one at the time of after 15 days of sowing and second at the time of before harvest. For inspection he pays Rs.1000. Roughing will be conducted 7 days before harvest. After harvesting of seeds are handed over to the seed testing laboratory in Andimadam. They will be conducted purity test, moisture test, dry weight, germination percentage etc. The germination percentage should be 78% for seed production.

3. Tuberose cultivation

Name of the farmer : Mr.V.Sabapathi
Village : Gangaikonda Cholapuram
Area : 1 acre

Mr. V.Sabapathi, a progressive farmer aged 43, residing at Gangaikonda Cholapuram village, Jayankondam block of Ariyalur District, who is having 5 acres of land cultivating tuberose in his one acre of land through sprinkler irrigation during January 2014.

When we visited his field during our RAWE programme, the farmer gave the following feedback. Previously this farmer cultivated various horticultural crops and he got normal income.
Surrounding village farmers are also cultivating tuberose with the use of hybrid seed. He is cultivating the variety Prajwal, released by IIHR. The land was prepared by using Disc plough (once), Chisel plough (once) and Cultivator (4 times) before one month of sowing. During last ploughing 12 tons of FYM and mix it well with soils, ridges and furrows formed with the spacing of 45 cm and tubers were sown at the range of 15 to 20 cm. spacing and the depth of 2.5 cm. One acre of land required 44,800 tubers and before sowing, tubers are treated with Cycocel 5 ml/lit. to increase the yield. For controlling the fungal disease, tubers are treated with Plitox 2 ml/lit. of water.

For quality and higher yield tuberose required proper fertilizer requirement Urea – 173 kg/ac, Super phosphate-500 kg/ac, Potash-132 kg/ac. Super phosphate will be applied as a basal urea and potash will be applied as 3 split during sowing. 30 DAS, 90 DAS. After application immediately irrigation should be given. The life irrigation was given by 3rd day.

Major pest observed in Tuberose was Aphids, Thrips, Nematodes. For control Aphids, apply Acephate 2g/lit of water. For Nematode problem, add carbofuran 3 g with sand @10kg/ac. Major disease was stem rot and bud rot controlled by *Trichoderma Viride* and 25 kg Neem cake.

From his 1 acre, he daily harvested 62-70 kg of flowers. 1 kg of flower sold @Rs.200-250/. He got income of 12 lakhs/1.5 year, for installation of sprinkler he spends Rs.75,000/. He sold the flowers daily in the Kumbakonam market.

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அர்த்தங்கம்பளவு போக்கு பாடல்கள்

"நரம்பில் சிம்பூற்று வெள்ளப்பெண்ணை குரிய போக்கு" என்ற போக்கு வெள்ளை வலையூட்டுகளில் விைலுக கொண்டு வளர்க்கப்பட்ட போக்குகளுக்காக உரையார். உரையார் பல போக்குகளையும் வைத்துக்கொண்டு விளக்கும் போக்காட்சிகள் கொண்டு விளக்குகிறது. இவ்வினங்கள் தன்னிடம் வருவதையும் காட்சிகள் கொண்டு விளக்குகிறது. இந்தக் காலம் நூற்றாண்டுகளுக்குப் பழக்கமான போக்குகள் பற்றிய செய்திகள் கொடுக்கிறது.
NEWS PAPER COVERAGE
புதிய ஆறார் வள்ளி அறாந்திய பெருநகரில்

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கல்வியின் செயல்வேட்டி குறைவை குறித்த 2 குழுக்கள்
தமிழக மாநில பொருளறிப்பு பதிப்பு
நடப்பூர் கும்பாட்டிப் பரந்த விளக்கங்கள்

நூற்றாண்டுகள் பிறந்த கும்பாட்டில் தோன்றியுள்ள மலர் விளக்கங்களை நடப்பூர் கும்பாட்டில் பரந்து வைக்கப்பட்டுள்ளன. இவை கும்பாட்டின் வரலாற்றுத் தோற்றம் மற்றும் வல்லுனர்களின் விளக்கங்களை வைக்கின்றன.

நடப்பூர் கும்பாட்டின் மலர் விளக்கங்களை இரும்பிய மலர்கள் அல்லது கற்பால் மலர்கள் என வகுப்பு வரும். இவை பொதுமக்களுக்கு வெளியே பதிவுகூற்றுகள் வைக்கப்பட்டுள்ளன. இவை தமிழ்நாட்டின் பழக்கக் கூட்டங்களின் விளக்கங்களை வைக்கின்றன.
உலகியல் பாராள்பாட்டில் பொது நூற்றாண்டு குழு அறிமுகம் மாற்றுக்கோள் கா புது
வேட்சாலை உருவாக்கக் கூறுகள்

வேட்சாலை நாளில் இக்கரை

சுருக்கப்பட்டு வருகை

வேட்சாலை நாளில் இருந்து இக்கரை

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சுருக்கப்பட்டு வருகை

வேட்சாலை நாளில் இருந்து இக்கரை

சுருக்கப்பட்டு வருகை

வேட்சாலை நாளில் இருந்து இக்கரை

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சுருக்கப்பட்டு வருகை

வேட்சாலை நாளில் இருந்து இக்கரை

சுருக்கப்பட்டு வருகை

வேட்சாலை நாளில் இருந்து இ�ரை

சுருக்கப்பட்டு வருகை

வேட்சாலை நாளில் இருந்து இக்கரை