

**Chief Secretary Review on 7.12.2021**

## **Additional Particulars**

**Directorate of Research  
Tamil Nadu Agricultural University  
Coimbatore**

# 1. Curriculum comparison between Private Colleges in Agriculture Vs TNAU, Coimbatore. The availability of practical classes, success percentage.

## Curriculum

All TNAU Constituent and Affiliated Colleges are **same as per the approved stipulated guidelines** of the Academic Council of TNAU & ICAR

## Success Percentage

Institutes	Number Students Registered (VII Sem)	Number of Students passed out	Passed out (%)
TNAU Colleges	1139	1085	95.26
Private Colleges	1380	1148	83.90

## 2. Updation in Village Stay Programs to Improve Practical Knowledge

Components	Duration (days)	Output
1. Exposure to Dept. of Agri	10	Acquire knowledge on role and functions
2. Attachment with NGO	10	Provision of solution at the grassroots level
3. Industrial implant	10	Learning industrial processes and products
4. Attachment with farmers	60	Collect data from small & marginal (3), Medium (3), Large (3) and Women (1)
5. Exhibits of Rural Experience & Presentation		Each group will present their works and rural experience besides Reports

### Students in Farms (3 months)



**New Syllabus**

Entrepreneurship  
development

Mentorship

### 3. The data on conversion of students into entrepreneurs in Food Technology, Biotechnology, Home Science and IIFPT

**2020-2021**

<b>Categories of Idea</b>	<b>Number of students obtained grants for innovative ideas</b>	<b>Number of students started enterprise</b>
Food Processing Technology	3	3
Biotechnology	5	5
Other Agri Technology	10	18
<b>Total</b>	<b>18</b>	<b>26</b>

## **4. Training schedule for Rural Skill Development in Agriculture**

## 5. New Crop Varieties from Research Institute in Tamil Nadu

Research station	Crop	Variety	Salient attribute
ARS, Vaigaidam (2019)	Rice	VGD1	Suitable for briyani making
TRRI, Aduthirai	Rice	ADT 53	Rich in Zinc (26.06 ppm) and Iron (14.70 ppm) content
CEM, Athiyandhal	Samai	ATL1	Grains are bold, golden yellow
NPRC, Vamban	Green gram	VBN 4	Resistance to urdbean leaf crinkle virus disease
ARS, Bhavanisagar	Groundnut	BSR 2	Bunch type growth with higher yield
TCSR, Yethapur	Castor	YTP 1	High proportion of female flowers
Dept. of Rice (2020)	Rice	CO 53	Drought tolerant, early duration
TRRI, Aduthurai	Rice	ADT 54	Medium duration and good cooking quality
Dept. of Millets	Sorghum	CO 32	Short duration (105-110 days), Dual purpose
CEM, Athiyandhal	Tenai	ATL 1	Compact and non shattering panicle
NPRC,Vamban	Blackgram	VBN 11	Resistant to Mungbean Yellow Mosaic Virus
Dept. of Cotton	Cotton	CO 17	Compact plant type with zero monopodia
Dept. of Rice (2021)	Rice	CO 54	Intermediate amylose content, soft gel consistency
TRRI, Aduthirai	Rice	ADT 55	Bacterial blight resistant
ADAC&RI, Trichy	Rice	TRY 4	Fine grain variety with sodicity tolerance
CEM, Athiyandhal	Ragi	ATL 1	Drought tolerant, Moderately Resistant to leaf, neck and finger blasts
CEM, Athiyandhal	Varagu	ATL 1	synchronized maturity and non-lodging growth habit
Dept. of Pulses, TNAU	Blackgram	CO7	Determinate plant type with synchronized maturity

## 5. New Crop Varieties – Horticulture

Research station	Crop	Variety	Salient attribute
TCRS, Yethapur (2019)	Castor	YTP 1	Perennial, 3 kg/plant
VRS, Palur	Bottlegourd	PLR 2	All types culinary preparation, 42t/ha
ICAR-CPRS, Ooty	Potato	Kufri Sahyadri	Good taste, 48t/ha
HRS, Ooty	Garlic	Ooty 2	Bulbs longer, 17 t/ha
ICAR-NRCB, Trichy	Banana	Kaveri Saba 9	Dual purpose, High market preference
ICAR-NRCB, Trichy	Banana	Kaveri Kalki 10	Suited to high density planting
ICAR-NRCB, Trichy	Banana	Kaveri Sugantham 11	Sweet taste
Floriculture, CBE	Star Jasmine	CO1	Pinkish color, 7.4t/ha
HC&RI, CBE (2020)	Banana	CO 2	TSS 24 – 26%
HC&RI, CBE	Tomato	CO 4	Red colour, 92t/ha
HC&RI, CBE	Onion	CO 6	Pink colour, bolder bulbs, 19t/ha
HC&RI, PKM	Manila Tamaind	PKM 02	Suited to dry land
TCRS, Yethapur	Cassava	YTP 2	270-300 days, 46 t/ha
HC&RI, CBE	Manathakkaali	CO 1	Rich in ascorbic acid (16.6 mg)
ARS, Virinjapuram (2021)	Brinjal	VRM (Br) 2	Spineless brinjal, suitable for side dish (Dalcha)
VRS, Palur	Jack Fruit	PLR 3	Carpel good taste
HRS, Pechiparai	Kudampulli	PPI (K) 1	Rich in Hydroxy citric acid (18.6)
HC&RI, PKM	Wood Apple	PKM 1	Rich in potassium and anti oxidants

## 6. Seed multiplication, availability in each District data as on 01.12.2021

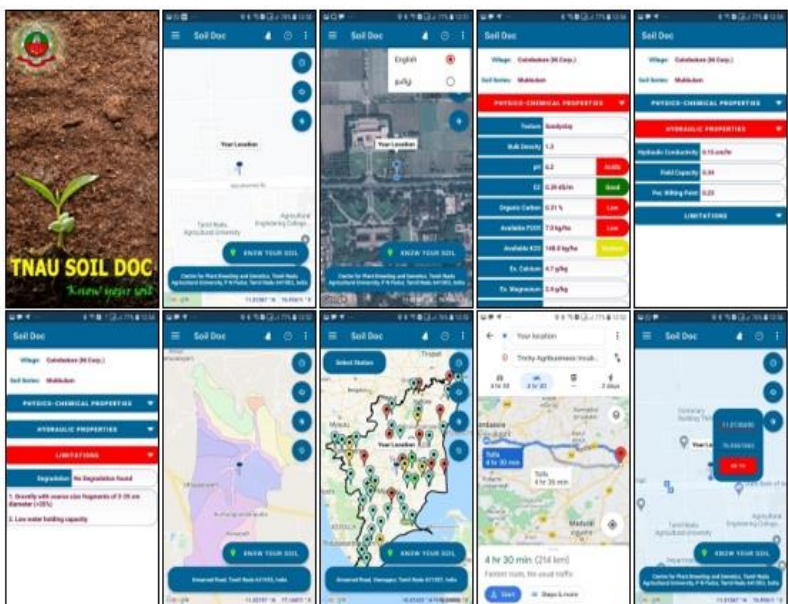
### TNAU Seed Stock Position as on 01.12.2021

S. No.	Crops	Foundation seeds	Certified seeds	TFL seeds	Total
1.	Paddy	412.9	47.9	347.7	808.5
2.	Millets	15.5	-	55.1	70.6
3.	Pulses	16.0	9.1	21.4	46.5
4.	Oilseeds	113.7	142.8	23.7	280.2
5.	Cotton	-	-	1.8	1.8
6.	Forage crops	-	-	6.6	6.6
7.	Green manure crops	-	-	20.8	20.8
8.	Vegetable crops	-	-	38.1	38.1
<b>Total</b>		<b>558.1</b>	<b>199.8</b>	<b>515.2</b>	<b>1,273.1</b>

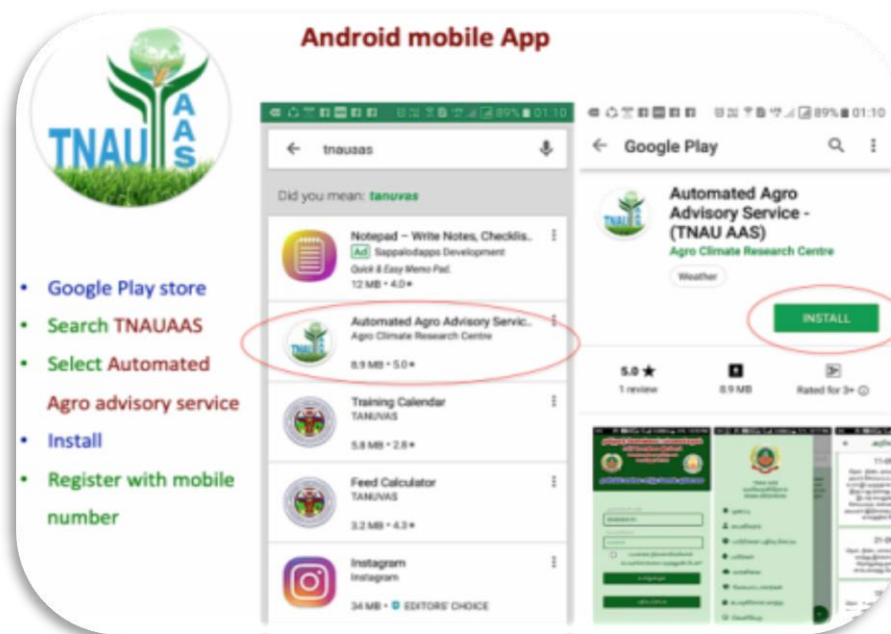


# 7. Mobile based services to the farmers on market rates, Climate, Soil Health, Water Quality, Pest and Disease attack

## SOILDOC – Soil Health Status



## Weather Data through Mobile



**80 Lakh Farm Soils** in Tamil Nadu

**AAS – TNAU**  
44,000 Weather based agro-advisory  
(Weekly) – Registered Farmers

**450 Farmers Registered**

**M Kisan 8,25,000**  
Weather based agro-advisory

## 8. Data on Producing and Spreading various good predators against white fly in Coconut

*Aleurodicus rugioperculatus*

### Parasitoids

*Encarsia guadeloupae* @ 100 / ha



**38.6  
Lakhs**

### Traps

Yellow sticky traps (5 ft. x 1.5 ft.)  
smeared with castor oil @ 5 / ac



**TN Govt.  
25,000 ha**

### Predators

*Chrysoperla zastrowi sillemi* eggs  
@ 1000/ha



**41.5  
Lakhs**

### Holiday

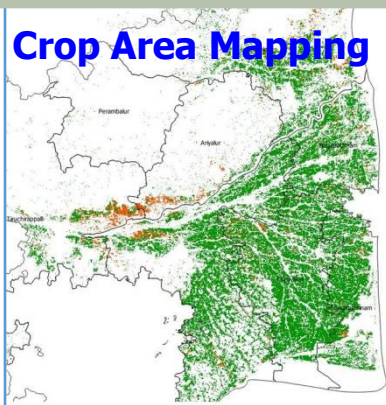
No pesticide use



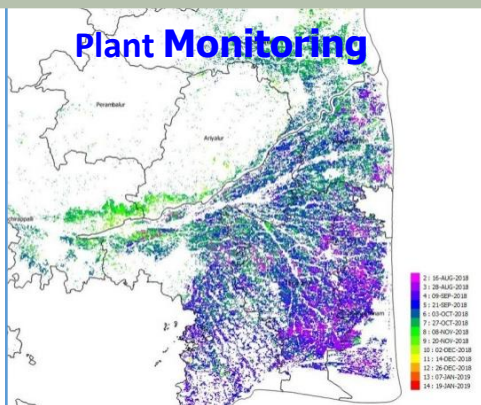
**Beneficiaries 24,768**

# 9. Use of Remote Sensing for the Development of Farmers

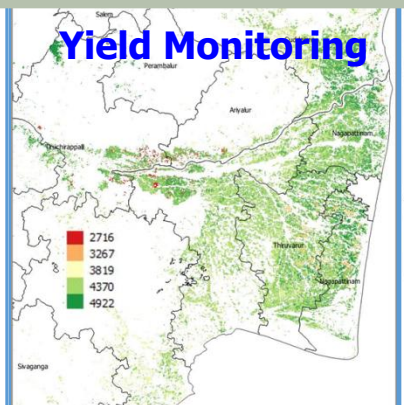
## Crop Area Mapping



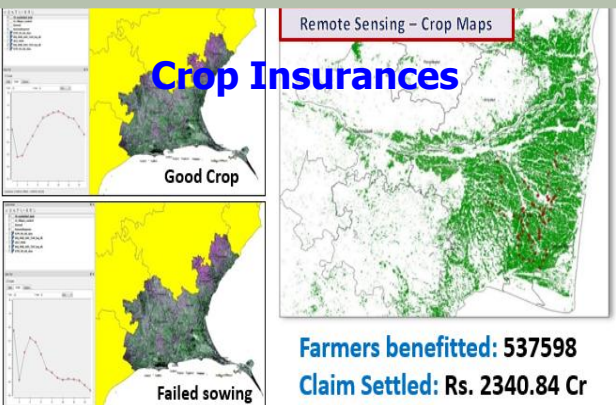
## Plant Monitoring



## Yield Monitoring

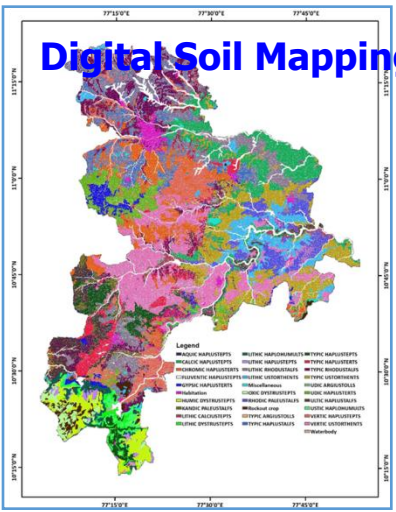


## Crop Insurances

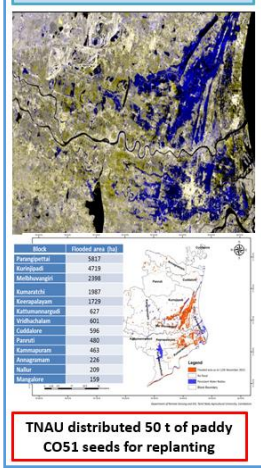


## Agricultural Disasters

### Digital Soil Mapping

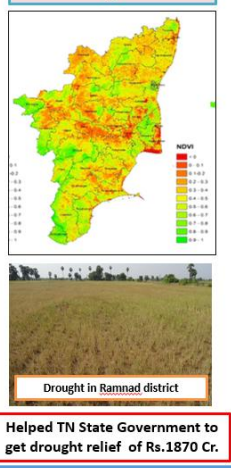


### TN Floods - 2015



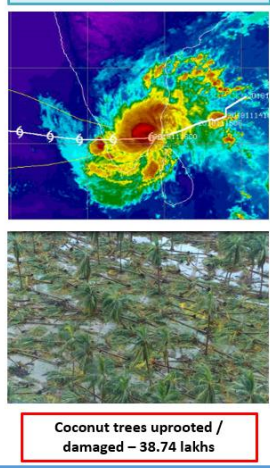
TNAU distributed 50 t of paddy CO51 seeds for replanting

### TN Drought - 2016



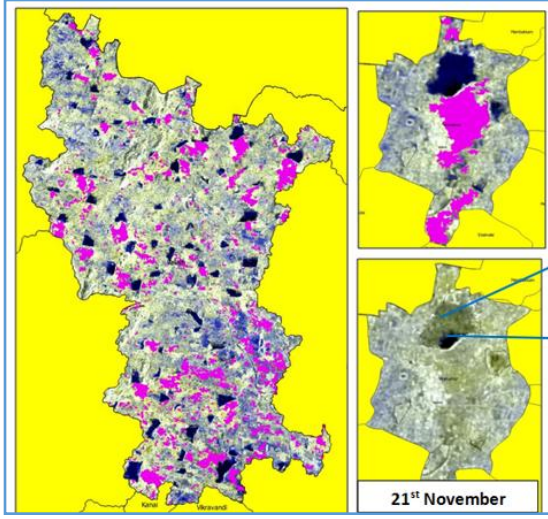
Helped TN State Government to get drought relief of Rs.1870 Cr.

### GAJA Cyclone - 2018



Coconut trees uprooted / damaged - 38.74 lakhs

## Water resource Monitoring



## Drone based mapping and spraying techniques



# 10. Technology dissemination to common people thru media

## **TNAU Agri-Portal – 900,000 pages**

11.73 Lakh Regular Visitors

2,305 clicks daily

**M Velanmai** – Farm advisories through mobile

## **YouTube Channel – TNAU TV**

160 Videos and 29,000 subscribers

## **Videos on Agro-technologies**

1600 technologies; Disseminated through DD & Social Media

**KVK on Tweeter** - Programs & Activities shared

## **Success stories documented (2020)**

Uzhavarin Valarum Velanmai - 14

Documented through KVKs - 14