

Accomplishments (1968-2024)

Germplasm conservation : Total: 5079, Cassava: 1329, Sweet potato: 1285, Yams: 868, Edible aroids: 1218, Minor tuber crops: 379 (Same as ICAR-CTCRI-HQ)

Collected and conserved during 2019-24: 435

Varieties Released

1968-2018		
Crop	Number	Name of varieties
Cassava	13	Sree Sahya, Sree Visakham, Sree Prakash, Sree Harsha, Sree Jaya, Sree Vijaya, Sree Prabha, Sree Rekha, Sree Padmanabha, Sree Athulya, Sree Apoorva, Sree Swarna, Sree Reksha
Sweet potato	5	Varsha, Sree Nandini, Sree Vardhini, Sree Bhadra, Sree Rethna
Taro	2	Sree Pallavi, Sree Rashmi
Elephant foot yam	1	Sree Padma
Greater yam	2	Sree Shilpa, Sree Swathy
Lesser yam	2	Sree Latha, Sree Kala
Chinese potato	1	Sree Dhara
Total	26	

2019-2024		
Released		
Cassava	1	Sree Kaveri
Attributes: Average yield:34-51t/ha, Duration:8-9 months, Dry matter:35-40%, Starch:28%, Cyanogen:45 ppm, Fibre:4%, CMD resistant, Drought tolerant		
Recommended for release		
Cassava	5	MNS41, MNS 135,MNS255, TCa13-7, TCa13-4
Greater yam	4	Da-67, DaH9-196, Da-342,Da-406
Arrow root	2	M-8, M-11
Tannia	1	Ttn 14-5



Sree Kaveri

Trials in progress

Testing of genetic resources

Cassava

Mosaic resistance, Nutrient use efficiency, High starch

Sweet potato

Tuber yield , Quality (Biofortified: orange and purple fleshed)

Yams

Tuber yield & quality

Taro

Cormel yield & quality



M-8



Cassava



Sweet potato



Yams

Production/Protection Technologies

1968-2018		
Crop	Number	Name of Technology
Cassava	1	Pruning of foliage to increase tuber yield
Sweet potato	2	IPM package against sweet potato weevil Use of bio fertilizers for increasing N use efficiency
Elephant foot yam	1	Integrated weed management in EFY
2019-2024		
1. Standardization of nutrient management of swamp taro 2. Integrated weed management in taro		

Trials in progress

- 1. High density planting in cassava
- 2. High density planting in elephant foot yam
- 3. High density planting in greater yam

Research Extension Farmers Linkage Programmes

1968-2018

- 1. Evaluation of Sweet potato model (SPOTCOMS)
- 2. Evaluation of Cassava model (SIMCAS)
- 3. Evaluation of Elephant foot yam model (EFYSIM)

2019-2024

Popularization and demonstration of tuber crops technologies among scheduled caste farmers (SCSP)

Name of state	Name of District	Name of Block	Number of farmers	R&D undertaken
Tamil Nadu	Perumbalur	Nallur	15	Popularization of improved varieties and demonstration of good agronomic practices of EFY, yam and cassava
	Salem	Attur	15	
Kerala	Pathanamthitta	Parakkode	30	



Swamp Taro



Demonstration trials



Distribution of inputs

Publications (2019-2024)

Type of publications	Number
Research Papers in peer reviewed journals	14
Book/Book Chapters	9
Popular Articles	2
Papers in Conferences/Proceedings/Symposia/Workshop/ Seminars	7
Booklets/Folders/Leaflets/Pamphlets	13



PROFILE : ALL INDIA CO-ORDINATED RESEARCH PROJECT ON TUBER CROPS (AICRP-TC) THIRUVANANTHAPURAM (TVM) CENTRE



Planting material production (2019-2024)

Sl.No.	Crop	Total
1.	Cassava stems (Numbers)	25,500
2.	Elephant foot yam corm (kg)	10700
3.	Greater yam tuber (kg)	10700
4.	Taro tuber (kg)	1,000
5.	Arrowroot tuber (kg)	3600

Annual Group Meetings (AGM) held at AICRP-TC TVM centre

Annual Group Meeting	Period
19 th AGM	13-15 June 2019
20 th AGM	10-12 June 2020
21 st AGM	27-28 May 2021

Budget Allocation (Rs. Lakhs) (2019-2024)

Head	2019-20	2020-21	2021-22	2022-23	2023-24
ONEH	10.5	16.41	7.01	4.5	7.3
SCSP	1.0			29.95	11.0
Total	11.5	16.41	7.01	34.45	18.3

PI'S of AICRP-TC-TVM

Name	Period
Dr. Santha. V. Pillai	2007-2012
Dr. C.S. Ravindran	2012-2014
Dr. M.N. Sheela	2014-2023
Dr. K. Susan John	2023- continuing

31 December 2024

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भाकृअनुप - केन्द्रीय कन्द फसल अनुसंधान संस्थान
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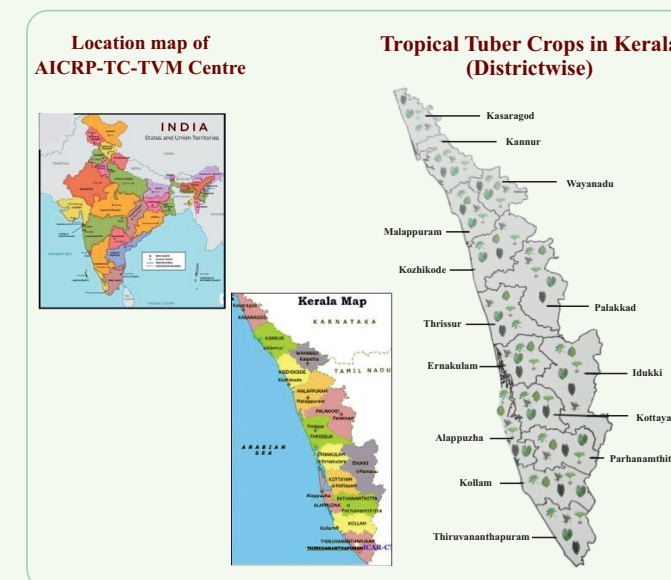
- One among the three centres established under AICRP-TC during 1968
- It is attached to the Headquarters of AICRP-TC
- Located at ICAR- CTCRI, Sreekariyam in Thiruvananthapuram in the West Coast Plains and Hills between 8°32' N latitude and 76°54' E longitude and 10 m above MSL
- The soil type of this location is laterite which is acidic in soil reaction having pH ranging 4.5 to 5.5
- The annual rainfall of this region ranges from 1700-2500 mm and the mean rainfall is around 1800 mm.

Mission

- For generating region-specific improved varieties with quality traits, agronomic interventions and production system technologies including disease and pest management along with creating awareness among the farming community, policy makers and researchers

Mandate

- Collection of germplasm of root and tuber crops from different regions of the country particularly from the tribal/hilly areas and maintaining them in the field gene bank
- Evaluation of germplasm for economically important traits including high yield, quality, short duration, tolerance/ resistance to biotic and abiotic stress and sharing of promising entries among the centres
- Carrying out regional/ location specific trials to identify improved varieties suitable to different agro climatic conditions
- Standardization of suitable agro-techniques and cropping systems for improved varieties of different root and tuber crops in different regions to enhance the productivity
- Evolve suitable and effective management tactics for major pests and diseases of tuber crops
- To popularize and create awareness on the importance and nutritional aspects of major tuber crops
- To organize production and supply of healthy planting materials of major tuber crops in liaison with State Agri/ Horti. Departments and voluntary agencies like KVKs/ NGOs



Vision

- Root and tubers for ensuring better health, wealth generation and inclusive growth

Crop	Scientific Name	Family
Cassava	<i>Manihot esculenta</i> (Crantz)	Euphorbiaceae
Sweet potato	<i>Ipomoea batatas</i> (L.) Lam.	Convolvulaceae
Elephant foot yam	<i>Amorphophallus paeoniifolius</i> (Dennst.) Nicolson	Araceae
Greater yam	<i>Dioscorea alata</i> L.	Dioscoreaceae
White yam	<i>Dioscorea rotundata</i> (Poir.)	Dioscoreaceae
Lesser yam	<i>Dioscorea esculenta</i>	Dioscoreaceae
Taro/Arvi (Eddoe)	<i>Colocasia esculenta</i> var. <i>antiquorum</i> (L.) Schott	Araceae
Taro (Dasheen)	<i>Colocasia esculenta</i> var. <i>esculenta</i> (L.) Schott	Araceae
Tannia	<i>Xanthosoma sagittifolium</i> (L.) Schott.	Araceae
Swamp taro	<i>Colocasia stoloniferum</i> (L.) Schott	Araceae
Chinese potato	<i>Plectranthus rotundifolius</i> (Poir.) Spreng	Lamiaceae
West Indian arrowroot	<i>Maranta arundinacea</i> L.	Marantaceae