

PATH BREAKING TECHNOLOGIES

Technology-1:

Name of the crop	:	Castor
Name of the management practice/Production/Protection technology of TNAU	:	Foliar application of plants regulator consortia (castor gold) for improving pistillate efficiency and yield.
Recommendation /advice for adoption	:	Foliar application of plant growth regulator consortia (castor gold) 0.05 % (0.5 ml/lit of water)at 25 th and 60 th days after sowing. Spraying should be done during morning or evening hours.
Benefits expected due to adoption of this technology	:	<ul style="list-style-type: none">• More than 95% of pistillate flowers increase.• 90% seed setting.• Seed yield increases upto 29%
Suitability of the location (a)Zone. (b)Districts	:	Salem, Namakkal, Dharmapuri, Erode, Trichy and Perambalur districts.



Technology-2

Seed priming with 1% kcl

Name of the crop	:	Castor
Name of the management practice/Production/Protection technology of TNAU	:	Seed priming with 1% kcl for rainfed castor.
Recommendation /advice for adoption	:	Seed priming with 1% KCI for 3 hours and sowing a week before onset of monsoon resulted in better seed yield in castor.
Benefits expected due to adoption of this technology	:	Seed priming increases germination percentage .It leads to maintain optimum plant population and drought tolerant.
Suitability of the location (a)Zone. (b)Districts	:	Namakkal, Salem, Dharmapuri, Erode, Perambalur and Trichy districts.

Technology-3:

Management of Botryotinia grey model by chemical and bio agent

Name of the crop	:	Castor
Name of the management practice/Production/Protection technology of TNAU	:	Management of Botryotinia grey model by chemical and bio agent
Recommendation /advice for adoption	:	Foliar spray of Carbendazim 0.1% at 45and 60days is effective for the management of Botryotinia grey model
Benefits expected due to adoption of this technology	:	Foliar spray of Carbendazim 0.1% at 45and 60days interval recorded minimum grey mold incidence on primary and secondary spike respectively and recorded maximum seed yield.
Suitability of the location (a)Zone. (b)Districts	:	Namakkal, Salem, Dharmapuri, Erode, Perambalur and Trichy districts.

Technology-4:

Name of the crop	: Castor
Name of the management practice/Production/Protection technology of TNAU	: Castor cultivation with Onion intercropping.
Recommendation /advice for adoption	: Castor cultivation with Onion intercropping. In this intercropping system (Castor –Onion in 1:2 ratio.i.e.one row of castor +two rows of onion by adopting the spacing of 1.5m*1.0m for hybrid castor crop and adopting 60*30*60 cm Spacing i.e. leaving 60 cm either side of the castor crop by providing 30 cm spacing for onion crop.this system will be raised to get additional productivity & profitability.
Benefits expected due to adoption of this technology	Suppress the weed growth at initial castor crop establishment stage there by harboring of pest and disease pathogens due to weed plants will be controlled .this will indirectly reduce the usage of herbicided and plant protection chemicals, creates safety environment.Besides one weeding cost will be reduced and farmers will get the high netreturns by rasing castor with onion intercropping.
Suitability of the location (a)Zone. (b)Districts	: Namakkal, Salem, Dharmapuri, Erode, Perambalur and Trichy districts.



Technology-5

Path breaking technologies in tapioca

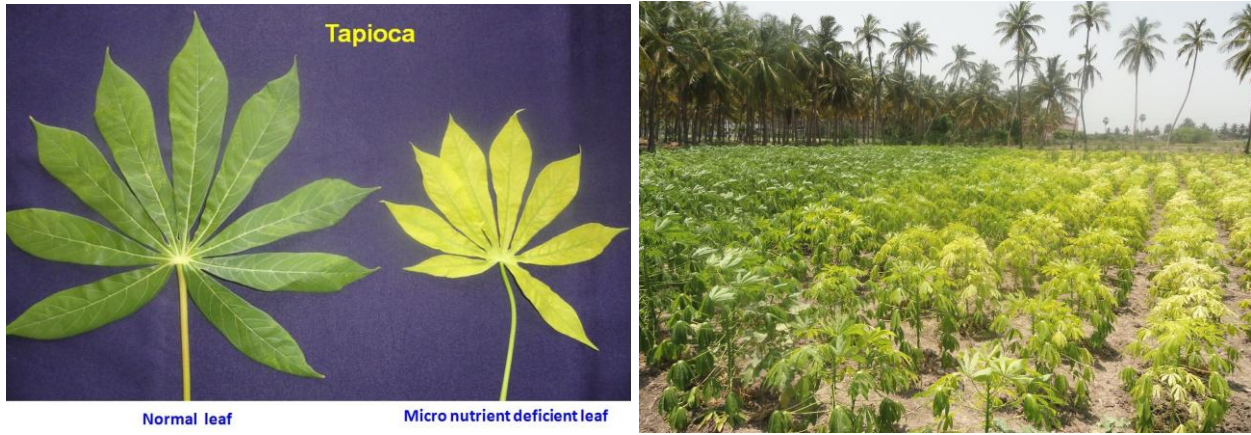
Name of the crop	:	Tapioca
Name of the management practice/Production/Protection technology of TNAU	:	Tapioca sett treatment for scale insects
Recommendation /advice for adoption	:	<ul style="list-style-type: none">• Dip the setts in Dimethoate @ 2ml/litre of the water +Carbendazim @ 2g/litre of water for 15 minutes before planting
Benefits expected due to adoption of this technology	:	<ul style="list-style-type: none">• Scale insects and mealy bug adhering to the planting material may be destroyed due to sett treatment.
Suitability of the location (a)Zone. (b)Districts	:	All zones of Tamilnadu All zones of Tamilnadu

Tapioca sett treatment



Technology-6

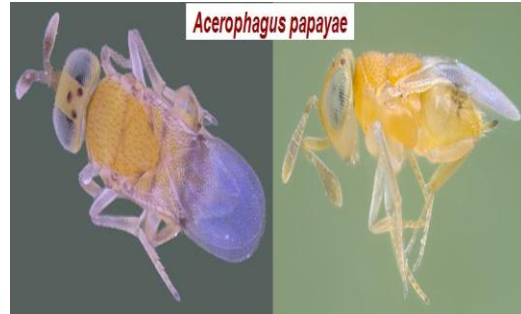
Name of the crop	:	Tapioca
Name of the management practice/Production/Protection technology of TNAU	:	Management of micro nutrient deficiency
Recommendation /advice for adoption	:	<ul style="list-style-type: none">• Foliar spray of 1% FeSO₄+0.5% ZnSO₄ at 60 and 90 days after planting .
Benefits expected due to adoption of this technology	:	<ul style="list-style-type: none">• Micro nutrient deficiency can be alleviated and yield loss can be avoided.
Suitability of the location (a)Zone. (b)Districts	:	All zones of Tamilnadu All zones of Tamilnadu



Micronutrient deficient field

Technology-7

Name of the crop	:	Tapioca
Name of the management practice/Production/Protection technology of TNAU	:	Management of papaya mealy bug infestation in tapioca
Recommendation /advice for adoption	:	<ul style="list-style-type: none">• Release of mealy bug parasitoid (<i>Acerophagus papayae</i>)@100Nos/acre.
Benefits expected due to adoption of this technology	:	<ul style="list-style-type: none">• Papaya mealy bug infestation in tapioca can be completely controlled and yield loss can be avoided.
Suitability of the location (a)Zone. (b)Districts	:	All zones of Tamilnadu All zones of Tamilnadu



Symptoms of papaya mealy bug infestation in tapioca

Mealy bug Parasitoid

For further information contact

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