

Agrotechniques of Tropical Tuber Crops



Improved Varieties of Tropical Tuber Crops Released by ICAR-CTCRI (79)

Cassava (22)	: H-97, H-165, H-226, Sree Prakash, Sree Jaya, Sree Vijaya, Sree Visakhham, Sree Sahya, Sree Rekha, Sree Prabha, Sree Harsha, Sree Padmanabha, Sree Swarna, Sree Pavithra, Sree Athulya, Sree Apoorva, Sree Reksha, Sree Sakthi, Sree Suvarna, Sree Kaveri, Sree Annam, Sree Manna
Sweet Potato (22)	: H-41, H-42, Varsha, Sree Kanaka, Sree Bhadra, Sree Arun, Sree Varun, Sree Rethna, Sree Nandini, Sree Vardhini, Gowri, Sankar, Kalinga, Goutam, Kishan, Sourin, Bhu Sona, Bhu Kanti, Bhu Ja, Bhu Krishna, Bhu Swami, Bhu Arunima
Greater Yam (10)	: Sree Keerthi, Sree Roopa, Sree Shilpa, Sree Karthika, Orissa Elite, Sree Swathy, Sree Neelima, Bhu Swar, Sree Nidhi, Sree Hima
White Yam (6)	: Sree Subhra, Sree Priya, Sree Haritha, Sree Dhanya (dwarf), Sree Swetha (dwarf), Sree Dhrona
Lesser Yam (2)	: Sree Latha, Sree Kala
Elephant Foot Yam (2)	: Sree Padma, Sree Athira
Taro (10)	: Sree Rashmi, Sree Pallavi, Muktakeshi, Pani Saru-1, Pani Saru-2, Sree Kiran, Bhu Kripa, Bhu Sree, Sree Hira, Sree Telia
Chinese Potato (1)	: Sree Dhara
Arrowroot (3)	: Sree Aadya, Sree Nakshathra, Sree Karti
Yam bean (1)	: Bhu Shakarkanda-1

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Crop	Time of Planting	Planting Material	Method of Land Preparation and Planting	Spacing (cm)	FYM (t/ha)	N:P ₂ O ₅ :K ₂ O (kg/ha)	Intercultural Operations	Duration (months)	Average Yield (t/ha)
Cassava	Rainfed : April-May & September-October Irrigated : Anytime	Stem cuttings: 7-10 months old, 2-3 cm thick, 15-20 cm long	Mound / Ridge & Furrow / Flat Bed; Vertical to 5 cm depth	90 x 90 (Branching) 75 x 75 (Non branching)	12.5	100:50:100	Weeding and earthing up at 1.5-2 months stage and again 1 month later; irrigate @ 20 mm/week if dry spell exceeds 2 weeks	6-10	25-30
							Weeding & earthing up at 1 month and 2 months after planting; irrigate once in a week during drought		
Sweet potato	Upland rainfed : June-July Upland irrigated : October-November Lowland irrigated: January-February	Vine cuttings: 20-30 cm long	Horizontal / Slant burial; 2-4 nodes below soil on mound / ridge	60 x 20 (Ridge) 80 x 75 (Mound)	5	50:25:50		3-4	20-25
Greater yam	March-April	Setts: 250-300 g	Pit reformed into mound	90 x 90	10	80:60:80		8-10	25-30
White yam	March-April	Setts: 250-300 g	Pit reformed into mound	90 x 90 60 x 60 (Dwarf white yam)	10	100:50:100	Trailing the plants 15 days after sprouting; weeding & earthing up within 15 days after sprouting and 1 month later	9-10	35-40
Lesser yam	March-April	Seed yam: 100-150 g	Mound	75 x 75	10	80:60:80		8-9	15-20
Elephant foot yam	February-April	Corm piece: 750 g; Whole corm: 500 g	Pits	90 x 90	25	100:50:150	Mulching immediately after planting; weeding & intercultivation at 1.5 months stage and 1 month later	8-9	35-40
Taro	April-June	Cormel / side corm: 20-25 g; mother corm: 75-100 g	Ridge & Furrow / Pit / Mound / Bed	60 x 45	12.5	80:25:100	Mulching after planting; 9-12 irrigations; stop irrigation 1 month before harvest; weeding, light hoeing & earthing up at 1 & 2 months stage; smother leafy parts 1 month before harvest	6-7	15-20
Tannia	March-April	Mother corm piece: 100-150 g; Cormel: 50-75 g	Mound / Pit / Ridge & Furrow	90 x 90	25	80:50:150	Weeding and earthing up at 1-1.5 months stage and 1 month later	9-10	20-25
Chinese potato	July-October	Vine cuttings (10-15 cm long)	Mound / Ridge & Furrow; Horizontal / Vertical planting	45 x 30	10	60:60:100	Weeding & earthing up at 1 month stage and 1.5 months later	4-5	20-25
Arrowroot	May-June	Rhizome pieces: 4-7 cm long, 2-4 buds, 20-25 g; sucker	Raised bed	30 x 15	10	50:25:75	Weeding & earthing up at 1 month stage and 2 months later	10-11	20-25
Yam bean	June-July August-September	3-5 seeds / hill	Mound Ridge & Furrow	60 x 30	10	80:60:80	Weeding & earthing up at 1 month stage and 1 month later	3-5	18-20