















**Tamil Nadu Agricultural University**  
**New Crop Varieties 2024**





Crop varieties	Nos.
Agricultural crops	10
Horticultural crops	10
<b>Total</b>	<b>20</b>



S. No.	Name of the variety/ hybrid	Parentage	Duration	Salient features	Photo
1.	Rice CORH 5	TNAU 60 S x CBSN 405	120-125 days	<ul style="list-style-type: none"> <li>• Two-line hybrid</li> <li>• Medium slender grain</li> <li>• Yield: 6467 kg/ha (10% &gt;US 312 &amp; 18% over ADT 39)</li> <li>• Season: <i>Samba / Thaladi</i></li> <li>• Easy hybrid seed production</li> <li>• Intermediate amylose content, gelatinization temperature and soft gel consistency</li> <li>• Moderately resistant to BPH, stem borer, leaf blast, neck blast and grain discoloration</li> </ul>	
2.	Rice CO 58	I. W. Ponni x Apo	120-125 days	<ul style="list-style-type: none"> <li>• Season: Late <i>Samba / Thaladi</i></li> <li>• Non-basmati, long slender and aromatic rice</li> <li>• Yield: 5858 kg/ha (17% &gt; Pusa Basmati)</li> <li>• Semi – dwarf &amp; Non lodging</li> <li>• High head rice recovery (55.8%) compared to other long slender basmati (20 – 30%)</li> <li>• Resistant to rice tungro disease &amp; green leaf hopper &amp; moderately resistant to Blast &amp; brown spot</li> <li>• Harbors 3 drought tolerant QTLs of Apo</li> </ul>	

S. No.	Name of the variety/ hybrid	Parentage	Duration	Salient features	Photo
3.	Maize VGI H(M) 2	UMI 1200 x UMI VIM-419	95-100 days	<ul style="list-style-type: none"> <li>Yield: 6300 kg/ha (rainfed) (12.6%&gt;COH(M) 8 &amp; 16.1 %&gt;NK 6240)</li> <li>Stay green; Orange yellow dent kernels</li> <li>Shelling – 81%</li> <li>Moderately resistant to <i>Turcicum</i> leaf blight; Moderately resistant to Fall army worm and Stem borer</li> </ul>	
4.	Sweet Sorghum CO (SS) 33	SS 179 x SS 172	110-115 days	<ul style="list-style-type: none"> <li>First Sweet sorghum variety of Tamil Nadu</li> <li>Grain yield: 2.5 t/ha; Fresh stalk yield: 42 t/ha; Juice yield: 15,133 l/ha</li> <li>Brix: 18-19 %</li> <li>Ethanol yield: 1127 l/ha</li> <li>Resistant to stem borer and anthracnose</li> </ul>	
5.	Sorghum CO 34	TNS 603 x IS 18551	100-105 days	<ul style="list-style-type: none"> <li>Dural purpose sorghum suited for both grain and fodder</li> <li>Grain yield: 2765 kg/ha, Dry fodder yield: 9478 kg/ha</li> <li>Higher IVDMD &amp; Low lignin content</li> <li>Moderately resistant to shoot fly and stem borer</li> <li>Resistant to ergot, downy mildew, grain mould and moderately resistant to grain mould</li> </ul>	
6.	Tenai ATL 2	CO 6 x ISe 198	80-85 days	<ul style="list-style-type: none"> <li>Grain yield: 2174 kg/ha; Straw yield: 2688 kg/ha</li> <li>Bold grains and non-shattering</li> <li>Protein content: 12.3%</li> <li>High milling outturn (68.4 %)</li> <li>Resistant to leaf blast, brown spot and rust diseases</li> <li>Tolerant to shoot fly</li> </ul>	

S. No.	Name of the variety/ hybrid	Parentage	Duration	Salient features	Photo
7.	Greengram VBN 7	EC 496839 x IPM 409-4	65-70 days	<ul style="list-style-type: none"> <li>• Yield: 900 kg/ha</li> <li>• Bold seeds (100 grain weight-5.5 to 6.0 g)</li> <li>• Suitable for snacks, savories and value addition</li> <li>• Rich in Vitamin C (18.17 mg / 100 g)</li> <li>• Moderately resistant to MYMV, Powdery mildew; Resistant to ULCV</li> </ul>	
8.	Groundnut CO 8	CO 7 x ICGV 03042	110-115 days	<ul style="list-style-type: none"> <li>• Yield: <i>Kharif</i>: 2527 kg/ha; <i>Rabi</i>: 2343 kg/ha</li> <li>• Medium bold</li> <li>• Oil content (51-52%); Shelling (69%)</li> <li>• Resistant to leaf miner and moderately resistant to sucking pest</li> <li>• Moderately resistant to late leaf spot and rust</li> </ul>	
9.	Cotton VPT 2	Suraj x TCH 1819	120-130 days	<ul style="list-style-type: none"> <li>• Suited for winter rainfed and rice fallow condition</li> <li>• Seed cotton yield: 1624 kg/ha</li> <li>• Compact long staple (29.6 mm)</li> <li>• Synchronized boll maturity</li> <li>• Suitable for mechanized harvest &amp; high-density planting</li> <li>• Moderately resistant to Leaf Hopper, <i>Alternaria</i> leaf spot and grey mildew and resistant to boll rot</li> </ul>	
10.	<i>Daincha</i> TRY 1	Selection from <i>Sivagangai</i> local	45 days ( <i>In situ</i> ploughing)	<ul style="list-style-type: none"> <li>• Yield: 17.86 t/ha (Green biomass)</li> <li>• Low CN ratio</li> <li>• Higher nodulation efficiency</li> <li>• No incidence of major pests and diseases</li> </ul>	

S. No.	Name of the variety/ hybrid	Parentage	Duration	Salient features	Photo
11.	Grapes GRS (MH) 1	Selection from Muscat Hamburg ( <i>Panneer Dhiraksha</i> )	120-130 days from fruit pruning	<ul style="list-style-type: none"> <li>• Fruit yield: 41 t/ha/yr</li> <li>• Medium sized bunches (325-350 g)</li> <li>• Bold sized berries</li> <li>• High TSS (24-26°Brix) during winter pruned crop</li> <li>• Field tolerance to anthracnose and rust diseases</li> <li>• Lesser incidence of downy mildew during summer than winter pruned crop</li> <li>• Suitable for table, juice and wine making</li> </ul>	
12.	Jack PKM 2	Selection from <i>Muthandikuppam</i> local	Perennial	<ul style="list-style-type: none"> <li>• Yield - 175.62 t/ha/yr</li> <li>• Medium sized fruits (11.46 Kg)</li> <li>• Semi dwarf stature; Suitable for high density planting</li> <li>• Regular &amp; off-season bearer- Main Season (70%) (March- June) &amp; Off season (30%) (Nov. – Dec.)</li> <li>• High TSS (30.8°Brix)</li> <li>• Moderately resistant to mealy bug, fruit borer, stem borer &amp; fruit rot</li> </ul>	
13.	Banana Kaveri Kanchan	Nendran x cv. Rose	305-320 days	<ul style="list-style-type: none"> <li>• Pro vitamin A enriched dessert banana</li> <li>• Contains 30 and 40-fold higher PVA (2.4 mg/100g) than ruling cultivars Rasthali and Grand Naine respectively.</li> <li>• Weight of bunch: 23 kg (20% higher yield than Plantain type cv. Nendran).</li> <li>• High TSS (24.6°Brix)</li> <li>• Resistant to <i>Fusarium</i> wilt (Foc race 1 &amp; TR4).</li> </ul>	
14.	Brinjal CO 3	CBE SM-13 x HD 2	140-150 days	<ul style="list-style-type: none"> <li>• Yield: 48.5 t/ha</li> <li>• Fruits: Long, light purple with white stripes</li> <li>• Moderately resistant to Fruit and Shoot borer</li> <li>• Suitable for western zone of Tamil Nadu</li> </ul>	

S. No.	Name of the variety/ hybrid	Parentage	Duration	Salient features	Photo
15.	Cluster bean MDU 2	Gamma ray mutant of MDU 1	75 days	<ul style="list-style-type: none"> <li>Yield: 14 t/ha</li> <li>Short statured plants (70-75cm) with long pods (15-16cm)</li> <li>No. of pods per plant: 115 to 125</li> <li>Protein content 2.6 g/100g, Crude fibre 2.58 g.</li> </ul>	
16.	White <i>Amaranthus</i> PLR 2	Selection from <i>Thiruvathigai</i> local	50 Days	<ul style="list-style-type: none"> <li>Yield: 43 t/ha (13%&gt; over CO 1)</li> <li>Rich in <math>\beta</math> carotenoids (8 mg / 100g)</li> <li>White stemmed, highly branched</li> <li>Suitable for patio or container cultivation in homesteads</li> <li>Moderately susceptible to Leaf spot</li> </ul>	
17.	Red <i>Amaranthus</i> CO 6	Selection from <i>Mettupatti</i> local	30-35 Days	<ul style="list-style-type: none"> <li>Yield: 12.6 t/ha</li> <li>Attractive red colored leaves with high anthocyanin content (0.653 mg/100g)</li> <li>Low nitrate (25.3 mg) and oxalate (1.2 g)</li> <li>Suitable for container cultivation year-round</li> </ul>	
18.	Perennial Moringa PKM 3	Selection from <i>Devathanapatti</i> local	10 to 15 years	<ul style="list-style-type: none"> <li>Yield: 68.7 t/ha/yr</li> <li>Medium length of pods (47-55 cm)</li> <li>Less incidence of pod fly, tea mosquito bug and leaf eating caterpillar</li> <li>Less incidence of root rot</li> </ul>	

S. No.	Name of the variety/ hybrid	Parentage	Duration	Salient features	Photo
19.	Red Tamarind PKM 2	Selection from <i>Erumanayakan patti</i> local	Perennial	<ul style="list-style-type: none"> <li>• Yield: 217 kg/tree/year (21.78 t/ha)</li> <li>• First red coloured pulp variety</li> <li>• Pods are bold, lengthy and fleshy</li> <li>• Contains high antioxidants (1614µg/g), anthocyanin (234.00 mg/g) and low tartaric acid (14.50%)</li> <li>• Moderately resistant to Powdery mildew</li> <li>• Suitable for preparation of ready to serve, jam, jelly, chutney, pulp powder and fruit bar</li> </ul>	
20.	Coconut VPM 6	Selection from <i>Adirampattina m</i> local	Perennial	<ul style="list-style-type: none"> <li>• Yield: 120 to 173 nuts per year per palm</li> <li>• First variety in East Coast Tall type</li> <li>• Copra yield: 18 kg per palm</li> <li>• Higher oil content (67.94%)</li> <li>• Moderately resistant to leaf spot and Tanjore wilt</li> </ul>	

\*\*\*\*