Year of Release 2004

1. CUMBU – CO (Cu) 9

Special features

- Long ear head (45 cm)
- High tillering (4-6)
- Acceptable grain colour (yellowish grey) and cooking quality
- High protein content (13.68%)
- Resistant to downy mildew

Parentage: Selection from ICMV 93752

Duration (days): 80-85

Season:
- Irrigated: Jan.- Feb., Mar.- April

Grain yield

<table>
<thead>
<tr>
<th></th>
<th>Irrigated</th>
<th>Rainfed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kg / ha</td>
<td>2865</td>
<td>2354</td>
</tr>
</tbody>
</table>

% increase over

<table>
<thead>
<tr>
<th></th>
<th>Irrigated</th>
<th>Rainfed</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO 7</td>
<td>25</td>
<td>21</td>
</tr>
<tr>
<td>ICMV 221</td>
<td>50</td>
<td>38</td>
</tr>
</tbody>
</table>

Area of adoption: Throughout Tamil Nadu

2. RAGI – CO (Ra) 14

Special features

- 8 – 9 top curved fingers per panicle
- 5 - 9 productive tillers
• Synchronised maturity
• Non-lodging growth habit
• Easy threshability
• Rich in protein (12.43%) and calcium (0.66%)

Parentage : Derivative of Malawi 1305 / CO13
Duration (days) : 105-110
Season : Irrigated : Dec - Jan., April - May
Rainfed : June - July, Sept.- October

Grain yield

<table>
<thead>
<tr>
<th></th>
<th>Irrigated</th>
<th>Rainfed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kg / ha</td>
<td>2892</td>
<td>2794</td>
</tr>
<tr>
<td>% increase over</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CO 13</td>
<td>16.3</td>
<td>16.6</td>
</tr>
<tr>
<td>GPU 28</td>
<td>17.5</td>
<td>18.2</td>
</tr>
</tbody>
</table>

Area of adoption : Throughout Tamil Nadu

3. REDGRAM - CO (RG) 7

Special features
• Photoinensitive
• Reddish brown colour seeds
• High protein content (23.5 %)
• Very low incidence of sterility mosaic disease and podfly when compared with check CO 5

Parentage : Selection from PB9825
Duration (days) : 120-130
Season : June - July, September - October and February – March
Yield
<table>
<thead>
<tr>
<th>Kg / ha</th>
<th>Average</th>
<th>Irrigated</th>
<th>Rainfed</th>
</tr>
</thead>
<tbody>
<tr>
<td>% increase over</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CO 5</td>
<td>24.4</td>
<td>30.6</td>
<td>9.7</td>
</tr>
<tr>
<td>APK1</td>
<td>16.2</td>
<td>32.8</td>
<td>-</td>
</tr>
</tbody>
</table>

Area of adoption

- Coimbatore, Salem, Dindigul, Pudukottai, Namakkal, Vellore, Thiruvannamalai, Sivagangai, Theni, Madurai and Thirunelveli districts

4. FODDER COWPEA - CO (FC) 8

**Special features**

- High green fodder yield
- High leaf stem ratio (0.95)
- Resistant to yellow mosaic virus and root rot
- Suitable for intercropping in sorghum and maize
- High palatability
- Protein 20.67%, Fat 2.72%, Calcium 1.49%, Phosphorous 1.37%

Parentage: Derivative of CO 5 / N331

Duration (days): 60-70 (Fodder)
100-105 (Seeds)

Season: Irrigated: Feb. – March, June - July

**Green fodder yield**

<table>
<thead>
<tr>
<th>Kg / ha</th>
<th>Irrigated</th>
<th>Rainfed</th>
</tr>
</thead>
<tbody>
<tr>
<td>% increase over</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CO 5</td>
<td>15.6</td>
<td>13.6</td>
</tr>
</tbody>
</table>
5. COTTON - MCU 13

Special features

- Shorter duration
- 2.5% span length : 30.3 mm
- Fibre strength : 22.6 g / tex
- Spinnability : 50's count
- Suitable for winter irrigated tract

Parentage : Multiple cross derivative
Duration (days) : 150 - 160
Season : Winter Irrigated (August - September)

Yield

<table>
<thead>
<tr>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yield kg / ha</td>
</tr>
<tr>
<td>% increase over MCU 5</td>
</tr>
<tr>
<td>LRA 5166</td>
</tr>
<tr>
<td>MCU 12</td>
</tr>
</tbody>
</table>

Area of adoption

- Coimbatore, Erode, Salem, Dharmapuri, Namakkal, Dindigul and Theni districts (Winter Cambodia Tract of Tamil Nadu)

6. SUGARCANE – COC (SC) 22

Special features

- Medium thick reddish pink cane and pithiness absent
- Good ratooner as compared to CO 86032
• Good for jaggery making; CCS: 12.12%
• Early vigorous, profuse tillering and more number of millable cane
• Moderately resistant to red rot
• Suited for problem soils and drought conditions
• High fibre content (13.24%) ideal for power generation in factories

Parentage: Derivative of open pollinated cane
CO 8208 GC

Duration (days): 330-360

Season: Mid late (February - May)

Yield

<table>
<thead>
<tr>
<th></th>
<th>Cane</th>
<th>Sugar</th>
</tr>
</thead>
<tbody>
<tr>
<td>t / ha</td>
<td>135.90</td>
<td>16.47</td>
</tr>
<tr>
<td>% increase over</td>
<td>10.57</td>
<td>11.73</td>
</tr>
<tr>
<td>CO 86032</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Area of adoption: Tamil Nadu and Pondicherry

7. BETELVINE – SGM (BV) 2

Special features

• Multilateral vines (17 - 20 / vine)
• Long petioles with attractive dark green leaves
• Moderately pungent leaves
• Good chewing quality
• High yield and good market appeal
• Moderately resistant to phytophthora wilt, blight and nematodes

Parentage: Pureline Selection from Dindigul local

Duration (years): 2 - 2½
Season : Agathi : January-March, June-August
Betelvine : March-May, August-October

Yield

<table>
<thead>
<tr>
<th></th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lakh leaves / ha / year</td>
<td>49</td>
</tr>
</tbody>
</table>

% increase over
<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SGM 1</td>
<td>25.4</td>
</tr>
<tr>
<td>Karpoori</td>
<td>33.8</td>
</tr>
<tr>
<td>Vellaikodi</td>
<td>62.0</td>
</tr>
</tbody>
</table>

Area of adoption
- All over Tamil Nadu and suitable for open trench cultivation

8. ROSEMARY - Ooty (RM) 1

Special features
- High yield potential of green leaves in one year
- The leaves possess high rosemary oil content (0.9 %)
- Green and dried leaves possess excellent aroma and cooking quality
- Resistant to leaf blight disease caused by *Rhizoctonia solani*
- Resistant to pests like white flies and aphids

Parentage : Selection from the seedling progenies of Rosemary
Duration : Perennial and commercially viable upto 12 years
Season : Rainfed : June - July, Sept - October

Yield (Green leaves)

<table>
<thead>
<tr>
<th></th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>ton / ha / year</td>
<td>12.4</td>
</tr>
</tbody>
</table>

% increase over
<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Local</td>
<td>46.0</td>
</tr>
</tbody>
</table>
Area of adoption

- The temperate zone of the Nilgiris from 900 to 2500 m above MSL and similar areas. Suitable for well drained loamy soil with a pH of 5.5-7.0

9. OYSTER MUSHROOM - CO (OM) 2

Special features

- Oyster shell shaped mushrooms with more fleshiness (Individual fruiting body weight 25 - 30 g)
- Bluish grey buds fading to white at maturity
- Protein 23.6%, Carbohydrate 52.4%, Fat 2.2% and Fibre 12.9% (on dry weight basis)
- Good shelf-life (up to 3 days under normal storage)
- Less damage during packing and transit
- Good cooking qualities including pleasing flavour

Parentage: Introduced from Seoul, South Korea through selection and tissue culturing

Duration: First harvest: 25 days
Crop cycle: 45 - 50 days
Season: Throughout the year

Yield

<table>
<thead>
<tr>
<th>g / bed containing 500g of dry paddy</th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>% increase over</td>
<td></td>
</tr>
<tr>
<td>CO 1</td>
<td>43.0</td>
</tr>
<tr>
<td>MDU 2</td>
<td>36.0</td>
</tr>
<tr>
<td>Ooty 1</td>
<td>52.0</td>
</tr>
<tr>
<td>M 2</td>
<td>43.0</td>
</tr>
</tbody>
</table>

(Bio-efficiency: 127%)

Area of adoption: Throughout Tamil Nadu