

## 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  
Rainfed : June - July, Sep.- Oct.

#### Grain yield

	Irrigated	Rainfed
Kg / ha	2865	2354
% increase over		
CO 7	25	21
ICMV 221	50	38

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

	Irrigated	Rainfed
Kg / ha	2892	2794
% increase over		
CO 13	16.3	16.6
GPU 28	17.5	18.2

Area of adoption : Throughout Tamil Nadu

### 3. REDGRAM - CO (RG) 7

#### Special features

- Photoinsensitive
- 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

	Average	Irrigated	Rainfed
Kg / ha	1021	1168	915
% increase over			
CO 5	24.4	30.6	9.7
APK1	16.2	32.8	-

Area of adoption

- Coimbatore, Salem, Dindigul, Pudukkottai, 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  
Rainfed : Sep. - Oct.

Green fodder yield

	Irrigated	Rainfed
Q / ha	170	125
% increase over		
CO 5	15.6	13.6

Area of adoption

- Throughout Tamil Nadu except Villupuram, Cuddalore, Tiruvarur and Kancheepuram Districts.

## 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

	Average
Yield kg / ha	1735
% increase over	
MCU 5	20.2
LRA 5166	22.0
MCU 12	20.0

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

	Cane	Sugar
t / ha	135.90	16.47
% increase over		
CO 86032	10.57	11.73

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 -2 ½

Season : Agathi : January-March, June-August  
Betelvine : March-May, August-October

Yield

	Average
Lakh leaves / ha / year	49
% increase over	
SGM 1	25.4
Karpoori	33.8
Vellaikodi	62.0

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)

	Average
ton / ha / year	12.4
% increase over	
Local	46.0

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

	Average
g / bed containing 500g of dry paddy	635
% increase over	
CO 1	43.0
MDU 2	36.0
Ooty 1	52.0
M 2	43.0

(Bio-efficiency: 127%)

Area of adoption : Throughout Tamil Nadu