

## Year of Release 2005

### 1. RICE – ADT (R) 47

#### Special features

- High yielder
- More number of tillers with long compact panicles
- Medium slender white rice
- Moderately susceptible to stem-borer, leaf hopper, WBPH and sheath blight

Parentage : ADT 43 / Jeeragasamba

Duration (days) : 118

Season : Sornavari (April-May), Kar (May-June),  
Kuruvai (June-July)

Grain yield

Kg / ha	6200
% increase over	
ADT 36	31.0
ADT 43	21.0
ADT (R) 45	13.0
CO 47	15.5

Highest yield obtained : 10610 kg/ha

Area of adoption : Throughout Tamil Nadu, suitable for all types of soils under wet submerged conditions



## 2. RICE - ADT (R) 48

### Special features

- Very early
- Long slender white rice, better than MDU 5 in quality (head rice out-turn, amylose content, gel consistency and organo-leptic test).
- Resistant to stem-borer, green leaf hopper and gall midge

Parentage : IET 11412 / IR 64  
Duration (days) : 94 (direct seeding)  
99 (Transplanting)  
Season : Late kuruvai (June-July)  
Grain yield

Kg / ha	4800
% increase over	
MDU 5	13.9
ASD 17	21.0

Highest yield obtained : 8750 kg/ha

Area of adoption : Suitable for direct seeding under water scarce contingent situations as well as for transplanting for late *Kuruvai* season in Nagapattinam and Thiruvarur districts



### 3.WHEAT - COW (W) 1

#### Special features

- Bread wheat type
- High yielding
- Rust resistant
- Having better chappathi and bread making quality

Parentage : HD 2646 / HW 2002A / CPAN 3057

Duration (days) : 85-90

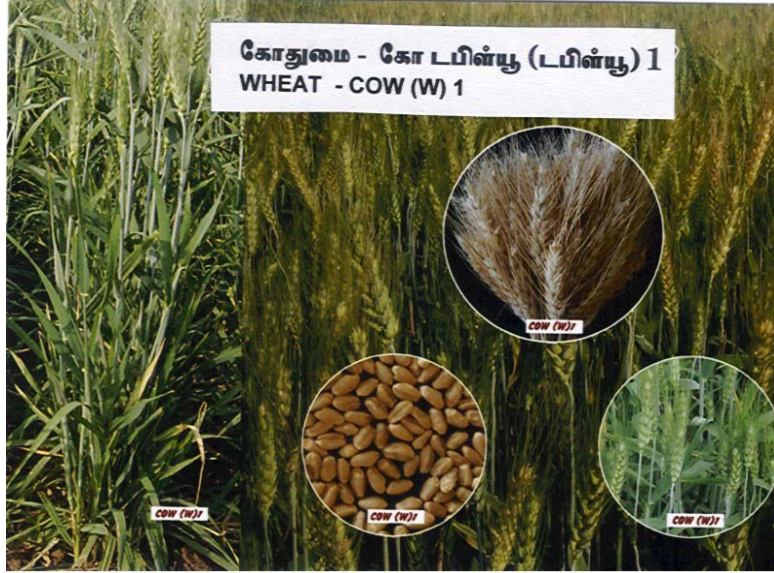
Season : Irrigated : 15<sup>th</sup> October to 15<sup>th</sup> November

Grain yield

Kg / ha	2364
% increase over	
HW 3070	5.4

Highest yield obtained : 6450 kg/ha

Area of adoption : Plains and adjoining areas near to hills and hills in Theni, Dindigul, Karur, Coimbatore, Erode, Salem, Dharmapuri, Vellore, Thiruvannamalai & Kancheepuram districts.



#### 4.TENAI - CO (Te) 7

##### Special features

- Bold grains
- Resistant to lodging
- Suitable for rainfed condition
- High protein (13.62%) and Calcium (0.5%)
- Tolerant to leaf blast and rust
- Suitable for low rainfall and low fertile soils

Parentage : CO 5 / ISE 248

Duration (days) : 85-90

Season : Kharif (Adipattam) and Rabi (Purattasi pattam)

Grain yield

Kg / ha	1855
% increase over	
CO 6	19.4

Highest yield obtained : 4494kg/ha

Area of adoption : Salem, Villupuram, Namakkal,  
Thiruvannamalai, Dharamapuri,  
Dindigul, Tuticorin, Madurai,  
Virudhunagar, Vellore, Erode and Nilgiri  
districts



## 5. REDGRAM - VBN (Rg) 3

### Special features

- High yielding
- Plants open type
- Early maturity
- Resistant to Sterility Mosaic Disease (SMD)
- Tolerant to pod borer
- High protein content (21.1%)

Parentage : Vamban1 / Gulburga

Duration (days) : 100-105

Season : All seasons

Yield

Kg / ha	884
% increase over	
Vamban 1	22.0
APK 1	14.0



Highest yield obtained : 1530 kg/ha

Area of adoption : Entire Tamil Nadu. Suitable to all types of soil



## 6. SOYABEAN - CO (Soy) 3

### Special features

- Photoinsensitive
- Medium duration
- Creamy yellow seeds with high oil and protein content
- Resistant to Yellow Mosaic Virus at field condition

Parentage : UGM 69 / JS335

Duration (days) : 85-90

Season : June-July,  
Sept.-October

Yield

Kg / ha	1366
% increase over	
CO 2	22.9

Highest yield obtained : 2500 kg/ha

Area of adoption : Erode and Coimbatore districts



## 7. SESAMUM – VRI (Sv) 2

### Special features

- High yielding
- Seeds reddish brown colour
- Moderately resistant to shoot webber and diseases like phyllody and root rot
- High oil content (51.9%) with high poly unsaturated fatty acid (80.1%)

Parentage : VS 9003 / TMV 6

Duration (days) : 80-85

Season : Rainfed : Rabi (November – December)  
Irrigated : Summer (February – March)

## Yield

	Irrigated	Rainfed
Kg / ha	726	706
% increase over		
VRI (Sv) 1	14.0	14.0
CO 1	22.0	12.0
TMV 3	-	14.0
TMV 4	7.0	-
TMV 6	15.0	-

Highest yield obtained : 1740 kg/ha

Area of adoption : Sesame growing districts in Tamil Nadu



## 8. SUGARCANE - CO Si (SC) 6

### Special features

- Very thick and erect canes, non flowering and easily detrashable
- CCS % : 12.3
- Very good ratooner and suitable for early drought and late water logging
- Suitable for sodic soil conditions
- Moderately resistant to red rot
- Moderately susceptible to early shoot borer and inter node borer



Parentage : CO 8213 / CO A 7602  
Duration (days) : 360  
Season : Early (December-January)

Yield

	Cane	Sugar
t / ha (plant crop)	148.0	18.1
% increase over		
CO Si 95071	10.9	14.5
CO 86032	14.0	13.8
CO 86249	12.5	26.5

Highest yield obtained : 188 t/ha

Area of adoption : Delta zone of Tamil Nadu (Trichy and Tanjore), Salem, Erode and Southern districts



## 9. SUGARCANE - COG (SC) 5

### Special features

- Yellowish green medium thick cane, more number of millable cane
- Erect, non flowering and non lodging
- Moderately resistant to red rot and smut
- Good ratooning ability and suitable for drought condition
- CCS% : 13.0; good for jaggery making
- Suitable for problem soils including tannery effluent affected soils

Parentage : COC 671 / COT 8201  
 Duration (days) : 330 - 360  
 Season : Mid-late (February – May)

**Yield**

	Normal soil		Problem soil	
	Cane	Sugar	Cane	Sugar
t / ha (plant crop)	120.9	15.6	103.9	13.5
% increase				
COG 93076	23.7	27.9	57.0	68.8
COG 95076	33.4	38.1	26.9	33.7
CO 86032	14.9	15.6	-	-

Highest yield obtained : 165 t/ha in problem soil

Area of adoption : Suited for normal and tannery effluent affected soils of Tamil Nadu



**10. NEW ZEALAND SPINACH - OOTY (Sp) 1**

**Special features**

- High yield potential, the leaves are attractive green in colour with excellent cooking quality.

- Leaves contain high Protein (28.79 %), Fat (4%) Calcium (0.34%) and Magnesium (0.084%)
- Highly resistant to drought and frost, can be grown as a cover crop.
- Resistant to *Cercospora* leaf spot, root knot nematode, whiteflies and aphids.
- Good keeping quality upto 6 days in hills and 3 days in plains after harvest, which facilitates to market to the distant places.

Parentage : Pure line selection from germplasm types

Duration (days) : 135

Season : Main (April-June), autumn (Aug.–Oct.) and irrigated (February - April)

Yield

	Greens
t / ha	33.8
% increase over	
Local	38.5

Highest yield obtained : 35 t/ha

Area of adoption : In Nilgiris 900 to 2500 m above MSL and similar areas. Suitable for well drained loamy soil with a pH of 3.5-6.0

நியூ சிலாந்து ஸ்பினாச் - 2ஊட்டி (எஸ்பி) 1  
NEW ZEALAND SPINACH - OOTY (Sp) 1



## 11. GUAVA - TRY (G) 1

### Special features

- Off season bearing, shiny greenish yellow fruit with desirable aroma
- High TSS (10° Brix) & ascorbic acid (180.8 mg/100 g. edible part)
- Organoleptic evaluation – better than Lucknow 46 & 49
- Resistant to fruit fly and tolerant to mealy bug, scale, mite and wilt
- Drought and sodicity tolerant

Parentage : Elite mother plant from assembled unknown population at ADAC&RI, Trichy identified

Duration : Perennial (started bearing 6 months after planting but may be (days) allowed after 2<sup>nd</sup> year onwards. Upto 25 years gives good yield)

Season : Bears throughout the year with two peak seasons : July–Aug. and Dec.–Jan.

Yield :  
(average  
in kgs)

	Per tree	Per ha
TRY (G) 1	40.52	16348
Lucknow 46	41.50	16601
Lucknow 49	52.69	21081

Yield of checks Lucknow 46 & 49 not compared since the new variety has been promoted for its good quality traits

Highest yield obtained : 46.26 kg/tree

Area of adoption : Can be grown throughout Tamil Nadu. Particularly under salt affected soil and stress conditions.