

# SUMMARY OF PULSES DEMONSTRATION – RABI/SUMMER 2005-06

## I. BENGALGRAM

Demonstrations in bengalgram crop were conducted in Karnataka and Tamil Nadu states in an area of 124 hectares involving 271 farmers. The results obtained in these demonstrations have been discussed below:

### A. Karnataka

(i) **Rainfed:** Demonstrations in bengalgram were conducted in an area of 89 hectare involving 190 farmers. Twelve districts of the state were covered under demonstration. varieties used in the demonstration were A-1, Bheema, GBS-964, JG-11 and ICCV-2. The average demonstration yield was 11 q/ha against 8.6 q/ha local check showing increased yield of 27.9%. The highest average yield obtained at Chickmagalur (17.8 q/ha) with variety A-1 followed by Raichur (16.4 q/ha) with variety JG-11 and with variety GBS-964 in the same centre (15.6 q/ha). The maximum yield of 21.5 q/ha realized at Chickmagalur and the minimum yield of 6 q/ha at Chamrajnagar. The cost of production ranged from Rs.3350/ha to Rs.5580/ha.

(ii) **Irrigated:** Fifteen hectare demonstration was implemented under this situation involving 33 farmers. The variety used in the demonstration was A-1. the average demonstration yield was 15.4 q/ha against 12.8 q/ha local check exhibiting increased yield of 20.3%. The highest average yield (19.1 q/ha) obtained at Dharwad followed by 16.6 q/ha at Belgaum with variety A-1. The maximum yield of 20.5 q/ha obtained at Dharwad and the minimum (7.2 q/ha) at Bellary. The cost of production ranged from Rs.4100 to Rs.5064/ha.

### B. Tamil Nadu

**Rainfed:** In Tamil Nadu state, 20 hectare demonstration was conducted involving 48 farmers. The variety used in the demonstration was CO-4. the average demonstration yield was 11.3 q/ha as against 8 q/ha local check showing increased yield of 41.3%. The highest average yield obtained at Coimbatore (14.3 q/ha). The maximum yield realised out of demonstration was 15.8 q/ha with variety CO-4 and the minimum yield obtained at Dindigul (7.5 q/ha). The cost of production ranged from Rs.5580 to Rs.6000/ha.

## II GREENGRAM

### A. Karnataka

Ten hectare demonstration was conducted in greengram under irrigated and rainfed situation involving 36 farmers.

i) **Irrigated:** Under this situation, 5 hectare demonstration was conducted involving 20 farmers with variety Chinamung. The average yield was 11 q/ha against 8.6 q/ha local check showing increased yield of 27.9%. The maximum yield realised in the demonstration was 11.2 q/ha and the minimum yield was 9.6 q/ha. The cost of production of demonstration was Rs.3500/ha and local check was Rs.2900/ha.

ii) **Rainfed:** In rainfed situation 5 ha demonstration was conducted involving 16 farmers. The variety used in the demonstration was Pusa baisaki. The average yield obtained in the demonstration was 3.5 q/ha against 1.8 q/ha local check showing increased yield of 94.4%. The maximum yield in the demonstration was 3.7 q/ha and the minimum of 2 q/ha. The cost of production in the demonstration was Rs.2400/ha and in the local check was Rs.1900/ha.

### B. Tamil Nadu

Fifty five hectare demonstration was conducted in this state covering ten districts. The number of farmers involved in the demonstration was 132. The varieties used in the demonstration were VRM-1, CO-6, ADT-3, CO-6, VRM-2, KM-2 and VBN-2. The demonstrations were conducted in both irrigated and rainfed situations.

**Irrigated:** Thirty hectare demonstration was conducted involving 70 farmers. The average demonstration yield was 8.9 q/ha as against 6.6 q/ha local check showing an increased productivity of 34.9%. The highest average yield was achieved at Tirunelveli (14.2 q/ha) followed by 9.3 q/ha at Cuddalore with variety CO-6. The maximum yield realised in the demonstration was 14.6 q/ha and the minimum of 5 q/ha at Trichy. The cost of production ranged from Rs.2990/ha to Rs.4200/ha.

**Rainfed:** Five districts of the state conducted 25 hectares demonstrations involving 62 farmers. The average demonstration yield was 9.8 q/ha as against 7.0 local check exhibiting increased yield of 40%. The highest average yield was realised at Tuticorin (18.6 q/ha) followed by 11

q/ha at Theni with variety VBN-2 and CO-6 respectively. The maximum demonstration yield was obtained at Tuticorin 19.7q/ha and the minimum of 2.8 q/ha at Pudukottai. The cost of production ranged from Rs.2000/ha to Rs.3800/ha.

### III BLACKGRAM

#### A. Karnataka

Ten hectare demonstration on blackgram was conducted involving 28 farmers both under irrigated and rainfed condition. The variety used in the demonstration was TAU-1.

(i) **Irrigated:** Under this situation five hectare demonstration was conducted involving 13 farmers. The average demonstration was 9.4 q/ha against 7.1 q/ha local check exhibiting increased yield of 32.4%. The maximum yield realized in the demonstration was 10 q/ha and the minimum 6 q/ha. The cost of production of the demonstration was Rs.3900/ha and the local check was Rs.3200/ha.

(ii) **Rainfed:** In rainfed situation, five hectare demonstration was conducted involving 15 farmers. The average yield obtained in the demonstration was 4.0 q/ha against 2.5 q/ha local check showing increased yield of 60%. The maximum yield was 4.7 q/ha and the minimum yield of 2 q/ha. The cost of production of the demonstration was Rs.3000/ha and of the local check was Rs.2100/ha.

#### B. Tamil Nadu

(i) **Irrigated:** Under irrigated situation 52 hectare demonstration was conducted involving 126 farmers. The varieties used in the demonstration were ADT-3, VBN-3, ADT-5 and VBN-4. The average demonstration yield was 8.9 q/ha against 6.9 q/ha local check exhibiting increased yield of 29%. The highest average yield obtained at Thanjavur (16.3 q/ha) followed by Tirunelveli (13.8 q/ha) with VBN-3 and VBN-4 respectively. The maximum yield of (18.9 q/ha) achieved at Thanjavur and the minimum of 3.1 q/ha at Vellore. The cost of production ranged from Rs.2000/ha to Rs.5100/ha.

(ii) **Rainfed:** Under this situation 35 hectare demonstration was conducted involving 82 farmers. The variety used in the demonstration was VBN-3, VBN-4 and CO-4. The average demonstration yield was 7.7 q/ha against 5.6 q/ha local check exhibiting increased productivity of 37.5%. The highest average yield was achieved at Tuticorin (18 q/ha) followed by Theni (7.9

q/ha) with variety VBN-4 and VBN-3 respectively. The maximum demonstration yield was achieved at Tuticorin (18.5 q/ha) and the minimum 2.4 q/ha at Pudukottai. The cost of production was ranged from Rs.2700/ha to Rs.5600/ha.

### **C. Pondicherry**

In Pondicherry, 5 ha demonstration was conducted involving 12 farmers. The variety used in the demonstration was ADT-2. The average demonstration yield was 6 q/ha against 4.8 q/ha local check exhibiting increased yield of 25%. The maximum yield realized in the demonstration was 7.5 q/ha and the minimum was 5.2 q/ha. The cost of demonstration was Rs.3100/ha and the local check Rs.2700/ha.

Rs.400/ha.

### **Extension Activities**

A total number of 42 field days were organized during the crop season by involving 1595 farmers. One hundred and thirty training programmes were organized for 2579 farmers and 33 programmes for extension officials numbering 662. Besides, 49 TV/Radio talks 27 conventions were conducted involving 862 participants. Thirty eight farmers meeting was arranged with 530 farmers. 111 field visits were organized visiting 792 farmers. Twenty eight farmers' scientists' interactions were organized with 380 participants.