

# **SUMMARY OF PULSES DEMONSTRATION - KHARIF 2007**

## **Redgram**

The demonstrations on redgram were conducted in Karnataka and Tamil Nadu states in an area of 176.4 hectare involving 543 farmers both under rainfed and irrigated situations.

### **A. Karnataka**

#### **Irrigated**

Under irrigated situation 19.2 hectare demonstrations were conducted involving 53 farmers. The varieties used in the demonstration were BRG-1, BRG-2, Asha and BSMR-736. The average demonstration yield was 26 q/ha against 15.4 q/ha local check showing increased yield of 55.2%. The highest average yield was achieved at Bidar with variety BSMR-736 (34.8 q/ha) followed by Asha at Bellary (27.3 q/ha). The lowest yield was recorded at Mandya (11.7 q/ha) with variety BRG-2. The highest yield was achieved at Bidar because of transplanted technology in the crop demonstration.

#### **Rainfed**

Under rainfed situation 142.2 hectare demonstrations were conducted involving 456 farmers. The average demonstration yield was 12.6 q/ha against 9.2 q/ha local check exhibiting increased productivity of 37%. Varieties used in the demonstrations were ICPL-87119, BRG-1, BRG-2, WRP-1, Maruthi, BSMR-736 and Guliyal. The highest average yield of 19.7 q/ha was achieved at Kolar with variety BRG-2. The lowest yield (4.2 q/ha) achieved at Chamrajnagar. The maximum yield was obtained at Chitradurga (22 q/ha) and the minimum at (3 q/ha) at Chamrajnagar. The low yields are due to severe moisture stress, pest and disease problems. The cost of production ranged from Rs.4900 to Rs.7500/ha.

### **B. Tamil Nadu**

In Tamil Nadu state, ten hectare demonstrations were conducted under irrigated situation involving 22 farmers. The variety used in the demonstration was CO-(Rg-7) and VBN-3. The average demonstration yield was 10.5 q/ha as against 6.4 q/ha local check showing increased yield of 64%. The highest average yield was achieved at Karur (10.7 q/ha) with

variety VBN-3. The maximum yield realised was 11.9 q/ha at Karur and minimum of 10 q/ha in the same district. The cost of demonstration ranged from Rs.4800/ha to Rs.5000/ha.

## **Greengram**

### **A. Karnataka**

In Karnataka State, greengram demonstrations were conducted in an area of 125 ha under rainfed situation. The average demonstration yield was 6.3 q/ha against 4.7 q/ha local check exhibiting increased yield of 34%. The highest average yield obtained at Bidar (11.3 q/ha) followed by Hassan (7.3 q/ha) with variety selection -4 and Pusa Baisaki respectively. The maximum yield obtained at Bidar (12.3 q/ha) and the minimum at Haveri (2.4 q/ha). The cost of demonstration ranged from Rs.3286/ha to Rs.6700/ha.

### **B. Tamil Nadu**

#### **Rainfed**

In Tamil Nadu state, 70 hectare demonstrations were conducted under irrigated and rainfed situation involving 161 farmers. The varieties used in the demonstrations were VRM-GG-1, VBN-2, CO-6, KM-2.

Under rainfed situation 55 hectare demonstrations were conducted involving 124 farmers. The average demonstration in rainfed demonstration was 4.7 q/ha against 3.9 q/ha local check exhibiting increased yield of 20.5%. The highest average yield was achieved at Theni (9 q/ha) followed at Erode (7.4 q/ha) with variety Co-6 and VBN-(GG)-2 respectively. The maximum yield was also achieved at Theni (9.5 q/ha) and the minimum at Dindigul (2 q/ha). The cost of production ranged from Rs.2800/ha to Rs.6310/ha.

Under irrigated situation 15 hectare demonstration was conducted involving 37 farmers. The varieties used in the demonstration were KM-2, VBN-2 and CO-6. The average demonstration yield was 8.5 q/ha against 6.5 q/ha local check showing increased yield of 30.8%. The highest average yield was achieved at Tirunelveli (9.7 q/ha) with variety CO-6, followed by 8.1 q/ha at Salem with variety VBN-2. The maximum yield realised at Tirunelveli (14.2 q/ha) and the minimum of 7.2 q/ha at Trichy. The cost of production ranged from Rs.6500 to Rs.6150/ha.

## **Blackgram**

### **A. Karnataka**

Thirty hectare demonstration was conducted in Karnataka involving 60 farmers under rainfed situation. The varieties used in the demonstration were DU-1, TAU-1 and LBG-625 (Rashmi).

The average demonstration yield was 8.2 q/ha as against 6 q/ha local check exhibiting increased yield of 36.7%. The highest average demonstration yield was achieved (15.2 q/ha) at Bidar with variety DU-1 followed by 8.3 q/ha at Mysore with variety LBG-625. The maximum yield realised at Bidar (16.9 q/ha) and minimum of 4.1 q/ha at Haveri. The cost of production ranged from Rs.3880/ha to Rs.5840/ha.

### **B. Tamil Nadu**

In this state, blackgram demonstrations were conducted both under irrigated and rainfed situations. Totally 50 hectare demonstrations were conducted involving 119 farmers. The varieties used in the demonstrations were VBN-1, VBN-2, VBN-3 and VBN-4.

In rainfed situation 40 hectare demonstration was conducted involving 97 farmers. The average demonstration yield was 4.2 q/ha against 3.5 q/ha local check showing increased yield of 20%. The highest demonstration yield was achieved at Tiruvannamalai 6.5 q/ha followed by Pudukottai 5.7 q/ha with variety VBN-4. The maximum yield was achieved at Pudukottai 7.5 q/ha and the minimum yield 1.6 q/ha at Krishnagiri. The cost of demonstration ranged from Rs.3300 to Rs.5780/ha.

Under irrigated situation 10 hectare demonstration was conducted involving 22 farmers. The average demonstration yield was 9.5 q/ha against 7.3 q/ha local check showing increased yield of 30.1%. The highest average yield was achieved at Trichy 10.3 q/ha followed by 8.7 q/ha at Cuddalore with variety VBN-3 and VBN-4 respectively. The maximum yield realised at Trichy 10.5 q/ha and minimum at Cuddalore 7.8 q/ha. The cost of production ranged from Rs.4330/ha to Rs.6780/ha.

## **Extension Activities**

The summary of extension activities conducted in pulse demonstration are given in table 15. The cropwise/centrewise/statewise details of extension activities are available in table 15 (a) to 15 (f). Thirty eight field days were conducted during the crop season by involving 2105 farmers. One hundred and twenty three programmes were conducted with the participation of 3059 farmers. Twenty one training programmes were organised with the participation of 453 extension officials. Twenty seven conventions were held involving 479 farmers. Twenty one radio/TV programmes were used to provide mass publicity to the results of FLD. Forty six farmers meetings were organised with 708 farmers. One hundred and fifty one field visits were made to farmers field of 1356 farmers. Thirty six farmers-scientists interaction were arranged during the cropping season wherein 768 farmers participated.