

SUMMARY OF PULSES DEMONSTRATION – RABI/SUMMER 2006-07

Pulse demonstrations were conducted in an area of 454.6 hectares by involving 996 farmers. Demonstration plot yields varied from 8.0 q/ha in greengram to 11.0 q/ha in bengalgram. But the highest increase in yield over local practices (30.8%) was evident in blackgram crop.

I Bengalgram

Demonstrations in bengalgram crop were conducted in Karnataka and Tamil Nadu states both under irrigated and rainfed conditions in an area of 220 hectares with 424 farmers, the summary of which is given below.

A. Karnataka

(i) **Rainfed:** Demonstrations in bengalgram were conducted in an area of 140 hectares in rainfed condition involving 281 farmers. Thirteen districts in the state were covered under demonstration. Varieties used in the demonstrations were KAK-2, ICCV-2, ICCV-37, JG-11 and A-1. The average demonstration yield was 10.1 q/ha as against 8.0 q/ha in local check. The percentage increase in the productivity was 26.3%. Variety A-1 (21.0 q/ha) in Gulbarga district achieved highest yield followed by same variety (18.6 q/ha) in Koppal district. The cost of cultivation ranged from Rs. 4020/ha to Rs. 7200/ha.

(ii) **Irrigated:** Under irrigated situations, bengalgram demonstrations were conducted in four districts. Sixty hectare area was covered involving 94 farmers. The average demonstration yield was 14.2 q/ha against 11.9 q/ha in local check with increased productivity of 19.3%. The maximum yield realized out of demonstrations was 17.2 q/ha. The cost of cultivation in the demonstration plots ranged from Rs.4800/ha to Rs.6595/ha.

B. Tamil Nadu

(i) **Rainfed:** Demonstrations were conducted in twenty hectare area under rainfed situation involving 49 farmers. The average demonstration yield was 7.3 q/ha against 5.6 q/ha in local check. The average increase in the productivity was 30.4%, wherein two varieties namely Co-6 and Co-4 were demonstrated. The highest demonstration yield was achieved at Coimbatore (11.0 q/ha) with variety Co-4. The cost of cultivation ranged from Rs.3000/ha to Rs.4809/ha.

II Greengram

Greengram demonstrations were conducted in Karnataka and Tamil Nadu state during the season has been discussed below. Demonstrations were conducted in a total of 84.8 ha involving

211 farmers with varieties Pusa baisakhi, Chinamung, ADT-3, KM-2, VRM(Gg)-1, VBN-2, Co-6 and VRM(Gg)-2. The demonstrations were conducted in both rainfed and irrigated situations.

A. Karnataka

(i) Rainfed: Ten hectare demonstrations on greengram was conducted under rainfed condition. Pusa Baisakhi was demonstrated in 27 farmers fields. The average demonstration yield was 4.1 q/ha against 3.0 q/ha in local check showing an increased productivity of 36.7%. The cost of cultivation was Rs.3500/ha to Rs.2700/ha under demonstration and local check respectively.

Under irrigated situation five hectare demonstrations were conducted involving 13 farmers. The average yield was 11.5 q/ha compared to 9.5 q/ha of local check exhibiting 19.8% increase in yield. The cost of cultivation was Rs.3597/ha to Rs.3050/ha under demonstration and local check respectively.

B. Tamil Nadu

The demonstrations on greengram was conducted both under rainfed and irrigated situations. A total of 69.8 hectare demonstrations were conducted by involving 171 farmers.

(i) Irrigated: Under irrigated situation, 34.8 hectare demonstrations were conducted by involving 84 farmers with varieties VRM(Gg)-1, Co-6, ADT-3 and KM-2. The average demonstration yield was 7.0 q/ha against 5.4 q/ha in local check showing an increased productivity of 29.6%. The cost of cultivation ranged from Rs.3010/ha to Rs.3700/ha.

(i) Rainfed: Under rainfed situation 35.0 hectare demonstrations were conducted involving 87 farmers with varieties VRM (Gg-1), VRM-(Gg-2), VBN-2 and Co-6. The average demonstration yield was 9.7 q/ha against 7.5 q/ha in local check thereby showing increased yield of 29.3%. The highest yield was achieved at Tuticorin district (15.9 q/ha) with variety VRM(Gg)-2 followed by 10.7 q/ha at Theni district with variety Co-6. The cost of cultivation ranged from Rs.2450/ha to Rs.6180/ha.

III Blackgram

Blackgram demonstrations were conducted in Karnataka, Tamil Nadu and Pondicherry states under irrigated situation. A total of 149.8 hectare demonstrations were conducted involving 361 farmers.

A. Karnataka

Fifteen hectare demonstrations were conducted under rainfed situation involving 33 farmers with variety TAU-1 and DU-1. The average demonstration yield was 5.0 q/ha against

4.0 q/ha in local check exhibiting an increased yield of 25%. Maximum yield achieved in the demonstration plots was 6.4 q/ha. The cost of cultivation ranged from Rs.2800/ha to Rs.3800/ha.

Ten hectare demonstrations were conducted with 22 farmers and the average yield of demonstration was 11.4 q/ha compared to 9.0 q/ha local check exhibiting increase in yield of 26.7%. Varieties used in the demonstrations were LBG-625, T-9 and Rashmi.

B. Tamil Nadu

Under irrigated situation 79.8 hectare demonstrations were conducted with 193 farmers. The average demonstration yield was 8.3 q/ha against 6.3 q/ha showing increased productivity of 31.8% (Table 9). Varieties used in the demonstrations were ADT-3, VBN-3, VBN-4, ADT-5, TMV-1 and ADT-5. The maximum demonstration yield was 1.9 q/ha and the minimum was 2.8 q/ha. The cost of cultivation ranged from Rs.2800/ha to Rs.6425/ha.

Forty hectare demonstration was conducted with 100 farmers under rainfed situation with varieties VBN-3, Co-6 and VBN-4. The demonstration yield was 9.4 q/ha against the local check yield of 7.2 q/ha showing increased yield of 30.6%. The cost of cultivation ranged from Rs.3450/ha to Rs.6150/ha.

C. Pondicherry

Under irrigated situation five hectare demonstrations were conducted with 13 farmers. The average demonstration yield was 7.6 q/ha against 5.9 q/ha showing increased productivity of 28.8% (Table 9). Variety used in the demonstrations was VBN-3. The cost of cultivation was Rs.5800/ha for demonstration and Rs.4950/ha for local check.

EXTENSION ACTIVITIES

The summary of extension activities conducted in these demonstrations are given in Table 11. The crop wise extension activities are given in Tables 11 (a) to 11 (c). A total number of 38 field days were organised during the crop season by involving 1762 farmers. **One hundred and thirty six training programmes were organised for 2686 farmers and another 26 programmes** for extension officials numbering 454 officials. Besides, 10 conventions were conducted with the participation of 198 participants. In addition 27 radio/TV programmes presented during the period. Field visits (761 farmers) and farmers meetings (970 farmers) were the other extension activities conducted during the period.