

SUMMARY OF PULSES DEMONSTRATION – RABI/SUMMER 2007-08

Pulse demonstrations were conducted in an area of 586.2 hectares by involving 1182 farmers. The crop yields are varied from 7 q/ha in greengram to 11.4 q/ha in bengalgram. But the highest average yield over local practice (35.9%) was evident in blackgram crop. Summary of the results obtained during the season is given below.

I Bengalgram

Demonstrations in bengalgram crop was conducted in Karnataka and Tamil Nadu states both under irrigated and rainfed situations in an area of 301.6 hectare with 546 farmers.

A. KARNATAKA

(i) **Rainfed:** Demonstrations in Bengalgram were conducted in an area of 276.6 hectare under rainfed condition involving 506 farmers. Fifteen districts in the state were covered under demonstration. Varieties used in the demonstrations were A-1, GBS-964, KAK-2 and JG-11. The average demonstration yield was 11 q/ha against 8.8 q/ha local check exhibiting increased yield of 25%. The highest average yield was achieved at Koppal (18.6 q/ha) followed by Belgaum (17.3 q/ha) and Bagalkot (16.1) q/ha with variety A-1. The cost of production ranged from Rs.4900/ha to Rs.9775/ha.

(ii) **Irrigated:** Under irrigated situation, 15 hectare demonstration was conducted involving 25 farmers. The varieties used in the demonstration were JG-11, GBS-964 and MMK-1. The average yield obtained in the demonstration was 20 q/ha against 15 q/ha local check showing increased yield of 33.3%. The highest average yield achieved (21 q/ha) with variety JG-11 followed by GBS-964 and MMK-1. The cost of production ranged from Rs.7740/ha to Rs.7850/ha.

B. Tamil Nadu

Rainfed: Demonstrations were conducted in 10 hectare area under rainfed situation involving 15 farmers. The average demonstration yield was 8.7 q/ha against 5.7 q/ha local check exhibiting increased yield of 52.6%. The variety used in the demonstration was CO-4. The

maximum yield realised in the demonstration was 9.5 q/ha. The cost of production of demonstration was Rs.7200/ha and the local check Rs.6850/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 90 hectares involving 172 farmers. The varieties used in the demonstration were S-4, VRM (GG-1), VBN-2, CO-6, VBN-4 and KM-2. The demonstrations were conducted in both rainfed and irrigated situations.

A. Karnataka

Rainfed: Under rainfed situation 10 hectare demonstration was conducted involving 25 farmers. The average demonstration yield was 4.3 q/ha against 3.3 q/ha local check exhibiting increased yield of 30.3%. The maximum yield realised in the demonstration was 6.1 q/ha. The cost of demonstration was Rs.4504/ha and the local check was Rs.3789/ha.

Irrigated: Under irrigated situation 5 hectare demonstration was conducted involving 12 farmers. The average demonstration yield was 8.9 q/ha against 6.9 q/ha local check exhibiting increased yield of 29%.

B. Tamil Nadu

Seventy five hectare demonstration was conducted under irrigated and rainfed situation involving 135 farmers. The varieties used in the demonstration was VBN-1, VBN-2, VRM (Gg-1), Co-6 and KM-2. The average demonstration yield was 7.3 q/ha against 5.3 q/ha local check showing increased yield of 37.7%.

Rainfed: In this situation, 50 hectare demonstration was conducted involving 84 farmers. The average demonstration yield was 7.6 q/ha against 5.3 q/ha local check exhibiting increased yield of 43.4%. the highest average yield (9 q/ha) was achieved at Salem followed by 8.7 q/ha at Dharmapuri with variety VBN-2. Maximum yield (10 q/ha) achieved at Salem and Dharmapuri with variety CO-6 and VBN-2 respectively. The cost of production ranged from Rs.3500/ha to Rs.5500/ha.

Irrigated: Under irrigated situation, 25 hectare demonstration was conducted involving 51 farmers. The average demonstration yield was 6.8 q/ha against 5.3 q/ha local check showing increased yield of 28.3%. The varieties used in the demonstration was CO-6, VBN (Gg)-2, ADT-3 and VBN-3. The highest average yield was achieved (7.4 q/ha) at Ramanathapuram followed by (6.8 q/ha) at Madurai with varieties VBN (Gg)-2 and CO-6 respectively. The cost of production ranged from Rs.3250/ha to Rs.5950/ha.

III Blackgram

Blackgram demonstration was conducted in 194.6 ha involving 464 farmers. The average demonstration yield was 7.2 q/ha against 5.3 q/ha local check exhibiting increased yield of 35.9%. The varieties used in the demonstration was DU-1, TAU-1, VBN-3, VBN-4, ADT-3 and ADT-5.

KARNATAKA

Rainfed: Under rainfed situation 25 hectare demonstration was conducted involving 55 farmers. The average demonstration was 4.9 q/ha against 3.8 q/ha local check exhibiting increased yield of 28.9%. The variety used in the demonstration was DU-1 and TAU-1. The highest average yield was achieved at Uttara Kannada (5.2 q/ha). The cost of production ranged from Rs.4574 to Rs.4660/ha.

Irrigated: In this situation 34.6 hectare demonstration was conducted involving 95 farmers. The average demonstration yield was 5.8 q/ha against 4.5 q/ha local check exhibiting increased yield of 28.9%. The maximum yield realised in the demonstration was 6 q/ha. The cost of production of the demonstration was Rs.4500/ha and the check Rs.3890/ha.

Tamil Nadu

One hundred and thirty five ha demonstration was conducted involving 314 farmers. The average demonstration yield was 6 q/ha against 5.8 q/ha local check showing increased yield of 36.2%. The variety used in the demonstration was VBN-3, VBN-4, ADT-5, VBN-(Gg)-4 and TMV-1.

Rainfed: In this situation 30 ha demonstration was conducted involving 77 farmers. The average demonstration yield was 7.8 q/ha against 6 q/ha local check exhibiting increased yield of 30%. The highest average yield was achieved at Theni (9 q/ha)

followed by Ramanathapuram (7.9 q/ha) with VBN-3 and VBN-4 respectively. The maximum yield (10.5 q/ha) was achieved at Ramanathapuram. The cost of production ranging from Rs.3350/ha to Rs.5000/ha.

Irrigated: In this situation, 105 hectare demonstration was conducted involving 237 farmers. The average demonstration was 7.9 q/ha against 5.7 q/ha local check exhibiting increased yield of Rs.38.6%. The highest average yield (10 q/ha) was achieved at Erode followed by 9.9 q/ha at Trichy with varieties VBN-(Bg)-4. The maximum demonstration yield (11 q/ha) was achieved at Erode with variety VBN (Bg)-4.

Extension Activities

A total number of 41 field days were organised during the crop season by involving 1988 farmers. One hundred and twenty training programmes were organised for 2685 farmers. 23 Extension Officers Training Programmes were also organised for 312 extension officers. Eighteen conventions were organised benefitting 355 participants in addition 14 radio/TV programmes were broadcast/telecast for the masses. There were 62 farmers meeting were held with 875 farmers. One hundred and twenty three fields were visited with 1232 farmers and 26 farmers scientists interaction meetings were organised with 240 participants.