

POPULARIZATION OF MUSTARD VARIETY (DRMR 1165-40) THROUGH CLUSTER FRONT LINE DEMONSTRATIONS (CFLDs) IN DISTRICT AMROHA OF WESTERN UTTAR PRADESH REGION

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SITUATION ANALYSIS/ PROBLEM STATEMENTS:

Mr. Laxmi Narayan Gupta, Village: Salempur Gonsai, Post: Gajraula, Block: Gajraula, District: Amroha, a farmer who was selected for this demonstration. He was earlier involved with local variety of mustard Pusa Bold or Varuna. These varieties were low in yield.

PLAN, IMPLEMENT AND SUPPORT:

KVK Amroha tries to make them aware regarding scientific cultivation of mustard. That starts from land preparation to harvesting. This KVK has encouraged the farmer for soil testing and on the basis of that farmer was advised for balanced dose of chemical fertilizer with high yielding varieties DRMR 1165-40. That was sown on 01-11-2022-23 with line sowing and fertilizer application was done with basal application in which half dose of nitrogen full dose of SSP and full dose of MOP as recommended. Rest nitrogen used after first irrigation.

OUTPUT:

Mr. Laxmi Narayan Gupta adopted the balanced dose of chemical, fertilizer (N:P:K:S::150:40:40:30) kg/ha in mustard crop as per suggestion of KVK's scientist for his 0.25 ha land. His local yield was 9.75 qt with recommended technology. His yield increased by 39.02% with yield 10.25 qt. The economical gain in terms of per unit expenditure gross income, net return and BCR are recorded. Rs. 25750, Rs 92455, Rs. 66750 and 3.59 correspondingly.

OUTCOME:-

Mustard crop is the major oilseed crop of the district. KVK Amroha conducted 50 demonstrations in 05 villages during 2022-23 in an area of 20 ha at farmers' field with using HYV DRMR 1165-40 and balanced dose of chemical fertilizer (N:P:K:S::150:40:40:30) kg/ha. This variety has been disseminated in 50 villages of the district in area of approximately 250 ha. The outcome of this demonstration motivated the farming communities to replace their old varieties, non-descriptive varieties. Mr. Laxmi Narayan Gupta is very happy on improvement in their income, livelihood and set forth example for others.

IMPACT:

Mr. Laxmi Narayan Gupta is becoming one of the progressive and learned farmers for others with regards to popularization of DRMR 1165-40. This technology helps him for livelihood, empowerment and make him enthusiastic regards oilseed production. He is one of the progressive farmer after a becoming a part of KVK activities and get their effectiveness for his own development. Mr. Laxmi Narayan Gupta is very happy with this improved production and management technology and set forth example for other farmers of the district.

Table-01: Background information of Demonstrations.

| Name of KVK | KVK, Amroha |
|---|---|
| Crop and variety name | Mustard Variety- DRMR 1165-40 |
| Name of farmer & Address | Laxmi Narayan Gupta, Village- Salempur Gonsai |
| Season | 2022-23 |
| Background information about farmer field | Using old variety |
| Details of technology demonstrated | Replacement of Local variety of Mustard by DRMR 1165-40 with use of IDM & IPM. |
| Institutional involvement | Technical guidance & Monitoring |
| Success point | Use of Sulphur, timely sowing, timely practices & low incidence of Aphid |
| Farmer feedback | Grain yield has been increased due to selection of high yielding variety DRMR 1165-40. Uniform maturity and bold grain. Farmer are convinced to grow quality of seed & low incidence of Insect-pest & diseases. |
| Yield (q/ha) | |
| Demonstration | 16.81 |
| Potential yield of variet y/ technology | 24.0 |
| District average (Previous year) | 11.75 |
| State average (Previous year) | 10.25 |

Table-02: Performance of technology vis-a-vis Local check (Increase in productivity and returns):

| Specific Technology | Yield (q/ha) | Gross cost (Rs/ha) | Gross income (Rs/ha) | Net income (Rs/ha) | B:C ratio |
|---------------------|--------------|--------------------|----------------------|--------------------|-----------|
| Farmer practices | 10.25 | 24250 | 56375 | 32125 | 2.32 |
| Demonstration | 16.81 | 25750 | 92455 | 66705 | 3.59 |
| % Increase | 39.02 | - | - | - | - |

