

Crop demonstrations on rapeseed-mustard organized during 2022-23

Crop demonstrations on rapeseed-mustard organized: Crop demonstration is the method of motivating farmers for adoption of new varieties and techniques by showing their distinctly superior result. Crop demonstration shows the advantages and applicability of a newly recommended practice in farmer's own situation.

During 2022-23, a total of 5000 rapeseed-mustard crop demonstrations in different clusters of 15 districts were laid out successfully. Along with mustard crop demonstrations, 18000 minikit demonstrations in the selected clusters were also laid out.

Based on the climatic situation, cultivation of rapeseed-mustard, prevailing cropping pattern and resources, these demonstrations were conducted with three improved varieties of Indian mustard viz. NRCHB-101 (550), PM-28 (1380) and DRMR-150-35 (1070) and one variety of toria, viz. TS-38 (2000) along with crop management and protection technologies like line sowing, proper seed rate, seed treatment, proper plant population, thinning, weeding, intercultural operations, management of pest and diseases, etc. against the control plot. The seed of these improved varieties were supplied by ICAR-DRMR to DAOs. PD ATMA of 15 selected APART mustard districts. The seed was made available to them timely. The seed of demonstrated variety along with required fertilizers and need based fungicides, pesticides were given to selected farmers for crop demonstration. Under minikit demonstrations, only one kg seed of improved varieties viz. DRMR-150-35, (7170) and PM-28 (6930) of Indian mustard and one variety of toria, viz. TS-38 (3000) was supplied to the farmers. The details of components of demonstrated technology against the control plot or farmers practice is given in Table 1 and district wise details of varieties in mustard crop demonstrations and minikit demonstrations are given in Table 2.

Table 1: Components of demonstrated technology against the control plot

Components of demonstrated technology	Prevailing farmers practices against demonstrated technology
Improved varieties (NRCHB-101,PM-28,DRMR-150-35,TS-38)	Local varieties used by farmers
Proper seed rate	Higher seed rate
Balanced use of fertilizers	Imbalance use of fertilizers
Line sowing	Broadcasting
Proper spacing	No proper spacing
Thinning, Weeding	No thinning, Weeding
Proper plant protection measures	Generally not used plant protection measures

Table 2: Distribution of varieties in mustard crop demonstrations and minikit demonstrations

SN	District (No. of clusters)	Total crop demo (CP)	Total minikit	Varietal distribution of crop and minikit demonstrations						
				NRCH B-101	DRMR-150-35		PM-28		TS-38	
				No. of Demo	No. of Demo		No. of Demo		No. of Demo	
					CP	Minikit	CP	Minikit	CP	Minikit
1.	Dhubri (4)	400	1800	80	80	800	120	800	120	200
2.	Sonitpur (5)	500	2000	100	80	1170	150	630	170	200
3.	Darrang (3)	300	1000	50	80	350	70	450	100	200
4.	Morigaon (2)	200	1000	00	50	350	50	450	100	200
5.	Golaghat (3)	200	800	00	30	300	50	300	120	200
6.	Jorhat (3)	300	1000	50	50	400	100	400	100	200
7.	Sivsagar (2)	200	800	00	50	300	50	300	100	200
8.	Nagaon (4)	400	1800	70	100	100	100	600	130	200
9.	Dhemaji (3)	400	1200	50	100	500	70	500	180	200
10.	Lakhimpur (3)	500	1400	50	100	600	150	600	200	200
11.	Barpeta (3)	400	1200	00	130	500	150	500	120	200
12.	Nalbari (1)	200	400	00	40	100	60	100	100	200
13.	Kamrup (3)	400	1200	00	80	700	100	300	220	200
14.	Kokrajhar (3)	300	1200	50	50	500	80	500	120	200
15.	Bongaigaon (3)	300	1200	50	50	500	80	500	120	200
	Total	5000	18000	550	1070	7170	1380	6930	2000	3000

Regular visits and monitoring of the crop demonstrations and minikit demonstrations have been done by Research Associates, ATMA personnel to educate and motivate the farmers to adopt crop management practices like thinning, intercultural operations, weeding, applying irrigation, management of insects and diseases, etc. The monitoring and supervision of crop demonstrations and activities have also been done by Resident Consultant and experts of ICAR-DRMR. The detail of different categories of beneficiaries of crop demonstrations are in Table 3

Table 3 : Summary of crop demonstrations organized by ICAR-DRMR during 2022-23

SN	Activity	Target (No.)	Achieved (No.)	Benefi ciaries (No.)	Beneficiaries (No.)						
					Gender		Social Category				Total
					Male	Female	Gen	OBC	SC	ST	
1	Crop Demonstrat ions	5000	5000	5000	4045	947	1520	1630	327	1123	5000

Glimpses of crop demonstration on rapeseed-mustard organized during 2022-23



Barpeta



Bongaigaon



Jorhat



Dhemaji



Dhubri



Golaghat

Glimpses of crop demonstration on rapeseed-mustard organized during 2022-23



Nalbari



Kamrup



Kokrajhar



Lakhimpur



Morigaon



Nagaon

Glimpses of crop demonstration on rapeseed-mustard organized during 2022-23



Darrang



Nalbari



Nagaon



Morigaon



Kamrup



Sivsagar