

KVK, Rewari

Front Line Demonstrations 2021(Summary)

FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)			
2			
Area in ha		Number of Farmers	
Targets	Achievement	Targets	Achievement
191.2	191.2	439	439

RESULTS OF CFLD OILSEED (SESAME) KHARIF, 2021

Previous Crop **-Mustard/Wheat** Irrigated/rainfed **-Irrigated**
 Soil Type **-Loamy sand** Seasonal rainfall (mm) **-747.7 (July-Sep)**

Particulars	Variety	No. of demo/area	Average yield (qt/ha.)	% Increase in yield	Average cost of cultivation (Rs./ha.)	Average Gross Return (Rs./ha.)	Net return (Rs./ha.)	BC ratio
L. check	HT-1	-	3.75	-	24238	28500	4262	1.18
Demo	RT-351	34/13.6	4.42	17.87	24565	33592	9027	1.37
Demo	RT-351	41/16.4	4.61	22.93	24565	35036	10471	1.43
Average			4.51	20.4	24565	34314	9749	1.40

Sale Price = Rs.7600/q

Technology demonstrated:

Improved variety (RT 351)
 Balanced use of fertilizer(37.5 kg N+15 kg P₂O₅+25 kg. S/ha.)
 Management of Bihar Hairy Caterpillar(Quinalphos@1 lt./ha)

Feedback:

Variety RT-351 perform better than HT-1
 Infestation of Bihar hairy catter-pillar was reported
 Heavy rainfall (331.8 mm) during 2nd fortnight of July destroyed some demonstration plot and affected crop growth adversely
 Rainfall received 228.1 mm during September affected the crop growth and quality of seeds adversely

RESULTS OF FLD WHEAT RABI, 2021-22

Previous Crop	-Bajra	Irrigated/rainfed	- Irrigated
Soil Type	-Loamy sand	Seasonal rainfall (mm)	- 161.9 (Nov.- April)
Temp.	-March 33.7 0 C		

Particulars	Variety	No. of demo	Average yield (qt/ha.)	% Increase in yield	Average cost of cultivation (Rs./ha.)	Average Gross Return (Rs./ha.)	Net return (Rs./ha.)	BC ratio
Demo	HD-3226	25	51.75	6.70	55940	168705	112765	3.02
L. check	WH-711	-	48.50	-	54330	158110	103780	2.91

Sale Price = Rs. 2060/ha

Technology demonstrated:

Improved variety HD-3226
 Balanced use of fertilizer (156 kg N+62kg P₂O₅+30kg K₂O+25 kg ZnSO₄)
 Weed management by Metsulfuron methyl @ 20 gm/ha
 Seed treatment with chlorpyriphos @ 150 ml/ha and carbendazim @ 2gm/kg seed

Feedback:

No. of grains/spike and spike length were more than farmers practice
 Early maturity due to rise in temp. resulted in low yield

RESULTS OF FLD BIO FORTIFIED WHEAT RABI, 2021-22

Previous Crop - Bajra Soil Type - Loamy sand Temp. - March 33.7 0 C	Irrigated/rainfed - Irrigated Rainfall (mm) - 161.9 (Nov.- April)
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Particulars	Variety	No. of demo	Average yield (qt/ha.)	% Increase in yield	Average cost of cultivation (Rs./ha.)	Average Gross Return (Rs./ha.)	Net return (Rs./ha.)	BC ratio
Demo	DBW-187	5	54.50	12.37	55940	177670	121730	3.18
L. check	WH-711	-	48.50	-	54330	158110	103780	2.91

Sale Price = Rs. 2060/ha

Technology demonstrated:

Improved variety DBW-187
 Balanced use of fertilizer (156 kg N+62kg P₂O₅+30kg K₂O+25 kg ZnSO₄)
 Weed management by Metsulfuron methyl @ 20 gm/ha
 Seed treatment with chlorpyriphos @ 150 ml/ha and carbendazim @ 2gm/kg seed

Feedback:

No. of grins/spike and spike length were more than farmers practice
 Early maturity due to rise in temp. resulted in low yield

RESULTS OF FLD BARLEY RABI, 2021-2022

Previous Crop **-Bajra** **Irrigated/rainfed** **- Irrigated**
Soil Type **-Loamy sand** **Seasonal rainfall (mm)** **- 161.9 (Nov-April)**

Particulars	Variety	No. of demo/Area	Average yield (qt/ha.)	% Increase in yield	Average cost of cultivation (Rs./ha.)	Average Gross Return (Rs./ha.)	Net return (Rs./ha.)	BC ratio
Demo	DWRB-137	7/2.8	50.54	9.26	49015	179417	130402	3.66
Demo	DWRB-182	1/4	49.25	5.40	49015	174838	125823	3.56
L. check	BH-393	-	44.25	-	46595	157088	110493	3.37

Sale Price = Rs. 3550/ha

Technology demonstrated:

Improved variety DWRB-137 & DWRB-182
 Seed treatment with Bavistin 2g and Chloropyriphos 6 ml/kg seed
 Balance use of fertilizer (60kg N+30kg P₂O₅+154 kg K₂O+25 kg ZnSO₄)

Feedback:

Farmers were satisfied with performance of DWRB-137 variety

RESULTS OF FLD MARIGOLD KHARIF, 2021

Previous Crop	-Mustard		Irrigated/rainfed	-Irrigated				
Soil Type	-Loamy sand		Seasonal rainfall (mm)	-781.2 (July-Nov)				
Particulars	Variety	No. of demo/Area	Average yield (qt/ha.)	% Increase in yield	Average cost of cultivation (Rs./ha.)	Average Gross Return (Rs./ha.)	Net return (Rs./ha.)	BC ratio
Demo	Pusa Deep	10/2.0	200	11.11	300000	1200000	900000	4.00
L. check	Tenis Ball	-	180	-	280000	1080000	800000	3.85
Sale Price = Rs. 6000/q								

Technology demonstrated:

Improved variety Pusa Deep
 Balance use of fertilizer (120 kg N+80 kg P₂O₅+ 80 kg K₂O/ha.)
 Bed planting with mulching and drip irrigation
 Pinching of plants after 25-30 days of transplanting
 Management of blight by spraying mancozeb (0.2%)

Feedback:

Variety performed better in respect to attractive colour, more branches and flowers per plant
 Incidence of blight diseases was less

RESULTS OF FLD ONION RABI , 2021-22

Previous Crop - **Pearl millet** Irrigated/rainfed - **Irrigated**
 Soil Type - **Loamy sand** Seasonal rainfall (mm) - **195.4 (Oct-May)**

Particulars	Variety	No. of Demo/ Area	Average yield (qt/ha.)	% Increase in yield	Average cost of cultivation (Rs./ha.)	Average Gross Return (Rs./ha.)	Net return (Rs./ha.)	BC ratio
Demo	NHRDF Red-4	10/2.0	405	15.71	150000	607500	457500	4.05
L. Check	ALR	-	350	-	140000	525000	385000	3.75

Sale Price = Rs. 1500/q

Technology demonstrated:

Improved variety NHRDF Red-4
 Balanced use of fertilizer(125 kg N+50 kg P₂O₅+25 kg K₂O+ 50 ton FYM/ha)
 Onion thrips management by Melathion @ 1.5 ml/lt
 Purple blotch by copper oxy chloride @ 2.5 gm/lt

Feedback:

High yield with uniform bulb size
 No Bolting in demonstrated variety

RESULTS OF FLD (Farm Implements), 2021-22

Previous Crop		-Pearl millet				Irrigated/rainfed				-Irrigated			
Soil Type		-Loamy sand				Seasonal rainfall (mm)				-195.4(Oct-April)			
Name of Implement	Crop	No. of demo /Area	Field observation (output/man hour)		% change in major parameter	Labour reduction (man days)				Cost reduction (Rs./ha or Rs./Unit etc.)			
			Demo	Check		Land preparation	Sowing	Weeding	Total	Land preparation	Labour	Irrigation	Total
ZT drill	Wheat	25/10	0.42	1.43	73.73	1.14	--	0.34	1.48	4800	1000	500	6300
Twine Hand wheel hoe	Gram	10/4	3.4	6.6	56.12	--	--	2.9	2.9	--	1500	650	2150

Technology demonstrated:

ZT drill

Twine Hand wheel hoe

Feedback:

Reduced cost of cultivation using ZT drill @ Rs. 2520/- per acre, Production of wheat is same as compared to FP, Twine hand wheel hoe is more efficient than Kasola , User friendly tool for women