KVK, Rewari

Front Line Demonstrations 2021(Summary)

FL	FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)									
	2									
	Area in ha	Numb	per of Farmers							
Targets	Achievement	Targets	Achievement							
191.2	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: Feedback:

Improved variety (RT 351) Variety RT-351 perform better than HT-1

Balanced use of fertilizer(37.5 Infestation of Bihar hairy catter-pillar was reported kg N+15 kg P2O5+25 kg. S/ Heavy rainfall (331.8 mm) during 2nd fortnight of July

ha.) destroyed some demonstration plot and affected crop growth

Management of Bihar Hairy adversely

Caterpillar(Quinalphos@1 Rainfall received 228.1 mm during September affected the crop

lt./ha) growth and quality of seeds adversely

RESULTS OF CFLD MUSTARD RABI, 2021-22

Previous Crop -Bajra Irrigated/rainfed - Irrigated

Soil Type -Loamy sand Seasonal rainfall (mm) - 195.4 (Oct-March)

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	DRMRIJ-31	75/30	23.15	19.53	39110	143282	104172	3.66
L. Check	RH-0749		19.5		38465	120900	82435	3.14

Sale Price = Rs. 6200/q

Technology demonstrated:

Improved variety DRMRIJ-31

Seed Treatment with Bavistin @2g/kg seed

Balanced use of fertilizer (80 kg N+30kg. P2O5+20kg

K2O+25kg ZnSO4+40kg S/ha)

Painted bug management by Malathion@2ml/lt. water

Collar rot management by Bavistin (0.1%) at 45 & 65

DAS

Feedback:

Incidence of stem rot diseases was less in comparison to local check variety

Frost in the month of Dec. affected crop

adversely

Rainfall (152.4 mm) during the month of

Jan. affected adversely on grain

development

RESULTS OF CFLD CHICK PEA RABI, 2021-22

Previous Crop -Bajra

Soil Type -Sandy Loam

Irrigated/rainfed - Irrigated

Seasonal rainfall (mm) - 195.4 (Oct-March)

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	CSJ-515	25	13.50	19.56	32395	73575	41180	2.27
L. Check	HC-1	-	11.25	-	30695	61313	30618	1.99

Sale Price = Rs. 5450/ha

Technology demonstrated:

Improved variety CSJ-515
Seed treatment with Bavistin (2.5 g/kg seed)+Chlorpyriphos(15ml/kg seed)
Balanced use of fertilizer (20 kg N + 40kg.

P₂O₅₊25kg ZnSO₄/ha +Bio fertilizer)

Pod borer management (Quinalphos@1 lt./ha)

Feedback:

More no. of seeds per pod was observed by the farmers

Very low incidence wilt diseases was observed

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 grins/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 Irrigated/rainfed - Irrigated

Soil Type - Loamy sand 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	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

 $P_2O_5 + 30kg\ K_2O + 25\ kg\ ZnSO_4)$

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

RESULT OF FLD OKRA KHARIF, 2021

Previous Crop - Wheat Irrigated/rainfed - Irrigated

Soil Type - Loamy sand Seasonal rainfall (mm) - 781.2 (July-Oct)

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	Pusa Bhindi-5	10/2	155	19.23	100000	310000	210000	3.10
L. check	Arka anamika	-	130	-	95000	260000	165000	2.73

Sale Price = Rs. 2000/ha

Technology demonstrated:

Improved variety Pusa Bhindi-5

Balanced use of fertilizer (20kgN+40kgP2O5+20kg.

S/ha+ NPK Consortia)

Feedback:

Variety performed better in yield

Seed treatment managed the bacterial

leaf blight

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 CARROT RABI, 2021-22

Previous Crop - Cucurbits
Soil Type - Loamy sand

Irrigated/rainfed -Irrigated
Seasonal rainfall (mm) -414 (Sept.-Jan.)

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 Rudhira	10/2.0	335	13.55	160000	670000	510000	4.18
L. check	Pusa Kesar		290		150000	590000	440000	3.93

Sale Price = Rs. 2000/q

Technology demonstrated:

Improved variety Pusa Rudhira
Early sowing (September-October)
Ridge sowing method
Balance use of fertilizer- 60kg N+ 30kg P2
O5+30kgK2O +50 ton FYM

Feedback:

Variety performed better in comparison to local check

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 Imple ment	Crop	No. of de mo /Ar ea	Field observation (output/man hour)		% change in major paramet er	Labour reduction (man days)				Cost reduction (Rs./ha or Rs./Unit etc.) Land Labo Irriga Total			
			Demo	Check		Land prepa ration	ing	ng		Land prepa ration	ur	tion	Total
ZT drill	Whe at	25/ 10	0.42	1.43	73.73	1.14		0.34	1.48	4800	1000	500	6300
Twine Hand wheel hoe	Gra m	10/	3.4	6.6	56.12			2.9	2.9		1500	650	2150

Technology demonstrated: Feedback:

acre, Production of wheat is same as compared to FP,

Twine Hand wheel hoe Twine hand wheel hoe is more efficient than Kasola, User

friendly tool for women