

KVK, Rewari

Front Line Demonstrations 2020(Summary)

FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)			
2			
Area in ha		Number of Farmers	
Targets	Achievement	Targets	Achievement
269.2	269.2	604	604

**RESULTS OF CFLD OILSEED (SESAME) KHARIF, 2020**

Previous Crop	<b>-Mustard/Wheat</b>	Irrigated/rainfed	<b>-Irrigated</b>
Soil Type	<b>-Loamy sand</b>	Seasonal rainfall (mm)	<b>-247.6 (July-Sep)</b>

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
<b>Demo</b>	<b>RT-351</b>	<b>50/20</b>	<b>5.60</b>	<b>31.76</b>	<b>25735</b>	<b>45920</b>	<b>20185</b>	<b>1.78</b>
<b>L. check</b>	<b>HT-1</b>	<b>-</b>	<b>4.25</b>	<b>-</b>	<b>24745</b>	<b>34850</b>	<b>10105</b>	<b>1.419</b>

**Technology demonstrated:**

Improved variety (RT 351)  
Balanced use of fertilizer(37.5 kg N+15 kg P<sub>2</sub>O<sub>5</sub>+25 kg. S/ ha.)  
Management of Bihar Hairy Caterpillar(Quinalphos@1 lt./ha)

**Feedback:**

Variety RT-351 perform better  
Infestation of Bihar hairy caterpillar was reported

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## RESULTS OF FLD BAJRA KHARIF, 2020

<b>Previous Crop</b>	<b>-Mustard/Wheat</b>	<b>Irrigated/rainfed</b>	<b>- Irrigated</b>
<b>Soil Type</b>	<b>-Loamy sand</b>	<b>Seasonal rainfall (mm)</b>	<b>- 377.6 (June-Oct)</b>

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
<b>Demo</b>	<b>HHB-226</b>	<b>40</b>	<b>28.4</b>	<b>26.22</b>	<b>29630</b>	<b>72910</b>	<b>43280</b>	<b>2.46</b>
<b>L. check</b>	<b>HHB-197</b>	<b>-</b>	<b>22.5</b>	<b>-</b>	<b>25850</b>	<b>57675</b>	<b>31825</b>	<b>2.23</b>

### Technology demonstrated:

Improved variety HHB-226  
 Balanced use of fertilizer (156 kg N+62kg P<sub>2</sub>O<sub>5</sub>+30kg K<sub>2</sub>O+25 kg ZnSO<sub>4</sub>)  
 Weed management by Atrazine @1 kg/ha at 10-15 DAS

### Feedback:

Balanced fertilizer application gave better result  
 Size of panicle appreciated by the farmers

## RESULTS OF FLD COTTON KHARIF, 2020

Previous Crop	<b>-Wheat</b>	Irrigated/rainfed	<b>- Irrigated</b>
Soil Type	<b>-Loamy sand</b>	Seasonal rainfall (mm)	<b>- 377.6 (June-Oct)</b>

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
<b>Demo</b>		<b>20</b>	<b>22.2</b>	<b>31.36</b>	<b>48315</b>	<b>122433</b>	<b>74118</b>	<b>2.53</b>
<b>L. check</b>	-	-	<b>16.9</b>	-	<b>43610</b>	<b>93203</b>	<b>49593</b>	<b>2.13</b>

### Technology demonstrated:

Improved variety HHB-226  
 Balanced use of fertilizer (156 kg N+62kg P<sub>2</sub>O<sub>5</sub>+30kg K<sub>2</sub>O+25 kg ZnSO<sub>4</sub>)  
 Weed management by Atrazine @1 kg/ha at 10-15 DAS

### Feedback:

Balanced fertilizer application gave better result  
 Size of panicle appreciated by the farmers

## RESULT OF FLD CLUSTER BEAN KHARIF, 2020

<b>Previous Crop</b> - <b>Wheat</b>	<b>Irrigated/rainfed</b> - <b>Irrigated</b>
<b>Soil Type</b> - <b>Loamy sand</b>	<b>Seasonal rainfall (mm)</b> - <b>377.6 (June-Oct)</b>

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
<b>Demo</b>	<b>HG-2-20</b>	<b>10</b>	<b>11.25</b>	<b>32.35</b>	<b>26408</b>	<b>40500</b>	<b>14092</b>	<b>1.53</b>
<b>L. check</b>	<b>HG-365</b>	<b>-</b>	<b>8.50</b>	<b>-</b>	<b>25108</b>	<b>30600</b>	<b>5492</b>	<b>1.22</b>

### **Technology demonstrated:**

Improved variety HG-2-20  
 Seed treatment with 6 g streptpcycline+6kg seed+6lt. Water for 25-30 min.  
 Balanced use of fertilizer (20kgN+40kgP<sub>2</sub>O<sub>5</sub>+20kg. S/ha+ Rhyzobium+PSB)

### **Feedback:**

Variety performed better in yield  
 Seed treatment managed the bacterial leaf blight

## RESULTS OF FLD BARLEY RABI, 2019-2020

<b>Previous Crop</b>	<b>-Bajra</b>	<b>Irrigated/rainfed</b>	<b>- Irrigated</b>
<b>Soil Type</b>	<b>-Loamy sand</b>	<b>Seasonal rainfall (mm)</b>	<b>- 88.3 (Nov-April)</b>

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
<b>Demo</b>	<b>RD-2907</b>	<b>8/3.2</b>	<b>52.50</b>	<b>7.73</b>	<b>48465</b>	<b>107730</b>	<b>59265</b>	<b>2.22</b>
<b>L. check</b>	<b>BH-393</b>	<b>-</b>	<b>50.0</b>	<b>-</b>	<b>46465</b>	<b>102600</b>	<b>56135</b>	<b>2.20</b>

### Technology demonstrated:

Improved variety RD-2907  
 Seed treatment with Bavistin 2g and Chloropyriphos 6 ml/kg seed  
 Balance use of fertilizer (60kg N+30kg P<sub>2</sub>O<sub>5</sub>+154 kg K<sub>2</sub>O+25 kg ZnSO<sub>4</sub>)

### Feedback:

Farmers were satisfied with performance of this variety

## RESULTS OF FLD MARIGOLD KHARIF, 2020-21

Previous Crop		<b>-Mustard, Wheat</b>			Irrigated/rainfed		<b>-Irrigated</b>	
Soil Type		<b>-Loamy sand</b>			Seasonal rainfall (mm)		<b>-249 (July-Nov)</b>	
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
<b>Demo</b>	<b>Pusa Deep</b>	<b>10/2.0</b>	<b>230</b>	<b>15</b>	<b>300000</b>	<b>1380000</b>	<b>1080000</b>	<b>4.60</b>
<b>L. check</b>	-	-	<b>200</b>	-	<b>270000</b>	<b>1200000</b>	<b>930000</b>	<b>4.44</b>

### Technology demonstrated:

Improved variety Pusa Deep  
 Balance use of fertilizer (120 kg N+80 kg P<sub>2</sub>O<sub>5</sub>+ 80 kg K<sub>2</sub>O/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, 2020-21

Previous Crop - **Okra**      Irrigated/rainfed - **Irrigated**  
 Soil Type - **Loamy sand**      Seasonal rainfall (mm) - **55.3 (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
<b>Demo</b>	<b>Pusa Rudhira</b>	<b>10/2.0</b>	<b>330</b>	<b>13.79</b>	<b>150000</b>	<b>495000</b>	<b>345000</b>	<b>3.30</b>
<b>L. check</b>	<b>Pusa Kesar</b>	<b>--</b>	<b>290</b>	<b>--</b>	<b>140000</b>	<b>435000</b>	<b>295000</b>	<b>3.10</b>

## Technology demonstrated:

Improved variety Pusa Rudhira  
 Early sowing (September-October)  
 Ridge sowing method  
 Balance use of fertilizer- 60kg N+ 30kg P<sub>2</sub>  
 O<sub>5</sub>+30kgK<sub>2</sub>O +50 ton FYM

## Feedback:

Variety performed better in comparison to local check

# RESULTS OF FLD ONION RABI, 2020-21

Previous Crop - **Bottle Gourd** Irrigated/rainfed - **Irrigated**  
 Soil Type - **Loamy sand** Seasonal rainfall (mm) - **97.9 (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
<b>Demo</b>	<b>NHRDF Red-3</b>	<b>10/2.0</b>	<b>390</b>	<b>14.70</b>	<b>125000</b>	<b>585000</b>	<b>460000</b>	<b>4.68</b>
<b>L. Check</b>	<b>ALR</b>	<b>-</b>	<b>340</b>	<b>-</b>	<b>120000</b>	<b>510000</b>	<b>390000</b>	<b>4.25</b>

## Technology demonstrated:

Improved variety NHRDF Red-3  
 Balanced use of fertilizer(125 kg N+50 kg P<sub>2</sub>O<sub>5</sub>+25 kg K<sub>2</sub>O+ 50 ton FYM/ha)

## Feedback:

High yield with uniform bulb size  
 No Bolting in demonstrated variety

