आजादी का अमृत महोत्सव

DWR - Success Stories No. 20

Success Stories to Enhance the Productivity and Farmers' Income

ICAR - Directorate of Weed Research
Jabalpur (M.P.)

ISO 9001 : 2015 Certified


भाकृअनुप
ICAR

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Message

Agricultural technologies play an important role in enhancing the overall productivity of farm lands and thereby helping in increasing the income of the farmers. The shift from conventional to knowledge based farming has led to sustainable agriculture growth in recent times. If present day agriculture is to become profitable, it needs to ensure continuous improvisation and upgradation in the technologies which are easily adopted by the farmers. Enhancing the income of farmers is one of the key goals of Government of India. The major objective of the Indian Council of Agricultural Research (ICAR) is to generate the newer technologies at research farms and validating them at farmer's fields. Weeds are one of the major deterrents in increasing the farm productivity and farmers' income. The weed management technologies developed by the ICAR- Directorate of Weed Research (DWR), Jabalpur have been demonstrated to the farmers through various outreach programmes such as *Mera Gaon Mera Gaurav* since last 10 years in various localities of M.P., and in different parts of the country through AICRP-Weed Management centres.

The present publication entitled "Success stories to enhance the productivity and farmers' income" is a compilation of stories of successful farmers who have increased their productivity and income by adopting the technologies developed by the ICAR-DWR. I congratulate the scientists of ICAR-DWR and AICRP-WM for bringing out this compilation. I am sure that these success stories would motivate many more farmers to shift from subsistence farming to modern agriculture, and enhance their farm productivity and income with improved technologies.

Date : 12-04-2022

(S.K. Chaudhari)

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Foreword

India being an agrarian economy, the contribution of farmers in its development is immense. Prosperity of the farmer is, hence, a key to its developmental journey. The DWR and its AICRP-WM centres are making concerted efforts to create a conducive eco-system to support their hard work so that the farmers get optimum returns on a sustainable basis. Over the years, with the innovative and advanced technologies including improved weed management enabling the agriculture, farmers have been closely mentored for scientific farming and many of them have even started adopting them.

I am extremely heartened that the ICAR- Directorate of Weed research, Jabalpur is bringing out a publication on "Success stories to enhance the productivity and farmers' income" and documenting the best practices adopted by the successful farmers in agriculture and allied sectors across the country. This publication encapsulates stories of progressive farmers who have succeeded by adopting modern agriculture, animal husbandry, improved weed management, organic farming and so on.

I appreciate the efforts of contributors and editors for bringing out this publication which is a testimony to the crucial role played by ICAR-DWR and AICRP-WM centres. I fervently hope that such compilation will encourage other farmers to emulate and replicate such stories in times to come.

Date : 12-04-2022

(S. Bhaskar)

Preface

Agriculture plays a vital role in Indian economy. The resilience of the farming community during adversities like COVID-19 made agriculture the only sector to have clocked a positive growth of 3.4 per cent in 2020-21, when other sectors slipped. The food grains production has increased from 51 million tonnes (MT) in 1950-51 to 309 MT in 2020-21, and expected to reach an all-time record high of 316 MT during 2021-22. However, as per the 3rd survey report of Situation Assessment Survey (SAS) of farm households released by the National Statistical Office in September 2021, there was an alarming fall in income from crop production. This low farm income is causing detrimental effect on the interest in farming, and is also forcing more and more farmers, particularly younger group, to leave agriculture. It is apparent that income earned by a farmer from agriculture is crucial to address agrarian distress and promote farmers welfare. Realizing the need to pay special attention to the plight of farmers, the Hon'ble Prime Minister announced to double the farmers income by 2022 to promote farmers welfare, reduce agrarian distress and bring parity between income of farmers and those working in non-agricultural profession. This initiative however, requires innovative strategies, need-based improved technologies and few policy reforms to achieve the goals. Raising agricultural productivity and input-use efficiency, reducing cost of production and farmer-centric government policies are some of the measures for doubling farmers' income.

Weed management is one of the important aspects of successful crop production. Of the total loss caused by various pests in agriculture, weeds accounts for 37% followed by insects (29%), diseases (22%) and others including nematodes, rodents, mites, birds, etc. (12%). The ICAR-Directorate of Weed Research (DWR), Jabalpur has estimated total actual economic loss due to weeds in 16 major crops to the tune of Rs. 78,591 crores per annum. It has been estimated that on an average, the conventional weed control costs around 33% and 22%, respectively of the total cost of cultivation of *Kharif* and *Rabi* crops. Therefore, adoption of appropriate weed management technologies play a significant role in increasing productivity & input-use efficiency and farmers' income by reducing cost of production.

Present document is a compilation of success stories on doubling/increasing farmers' income through the use of improved weed management technologies in different crops and cropping systems provided by the ICAR-DWR, Jabalpur and its AICRP-Weed Management centres located at different State Agricultural Universities (SAUs).

We would like to acknowledge the efforts of scientists and other staff of the ICAR-DWR, Jabalpur and AICRP-WM centres, and the farmers who shared their experiences in the form of success stories. We consciously hope that these stories would motivate many more to adopt scientific and modern weed management technologies to enhance their income, and also enthuse the youth to consider agriculture as a profitable enterprise.

Date : 12-04-2022

Editors

Contents

Rice-wheat Cropping System

Conservation Agriculture in rice-wheat system

Name of farmer : Sh. Shubham Tiwari (Chandra Prakash Tiwari)

Address: Pindarai, Bargi, Jabalpur

Mobile Number: 9340855377

Age: 35 years

Education: B.E.

Size of land holding (in acre): 5

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income ₹/acre)
Field Crop 1	Rice	4	18.5	28675	17838
Field Crop 2	Wheat	4	14	24290	12480
Total			**32.5**	**52965**	**30318**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	4	23	42964	32127	27.3	80
Field Crop 2	Wheat	4	20	39500	30597	42.8	145
Total			**43**	**82464**	**62724**	**32.3**	**107**

Brief : The farmer used to get net annual income of ₹ 30318/acre from rice and wheat crops. He faced problems like lack of knowledge on improved varieties, weed management and unavailability of happy seed drill machine. With interventions like improved seed, recommended dose of fertilizer and weed management under conservation agriculture, he is getting net annual income of ₹ 62724/acre. In addition, there is cost saving of ₹ 3250/acre in the production of rice and wheat due to savings in field preparation under conservation agriculture.

Direct-seeded rice

Wheat

Conservation Agriculture in rice-wheat system

Name of farmer : Sh. Uma Shankar Tiwari

Address: Silua, Bargi, Jabalpur
Mobile Number: 8989126444
Age: 50 years
Education: Higher Secondary
Size of land holding (in acre): 10

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income ₹/acre)
Field Crop 1	Rice	4	18	27900	16348
Field Crop 2	Wheat	8	14	24290	12810
Total			**32**	**24290**	**29158**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	4	23	42964	32127	27.7	96.5
Field Crop 2	Wheat	8	19	37525	28622	35.7	123.4
Total			**42**	**80489**	**60749**	**31.25**	**108.3**

Brief : The farmer used to get net annual income of ₹ 29158/acre from rice and wheat crops. He faced problems like lack of technical know-how, unavailability of improved seeds and happy seed drill machine. With DFI interventions like use of balanced fertilizers and weed management under conservation agriculture, he is getting net annual income of ₹ 60749/acre. In addition, there is cost saving of ₹ 3500/acre in the production of rice and wheat.

Direct-seeded rice

Wheat

Conservation Agriculture in rice-wheat system

Name of farmer : Sh. Dhashrath Prasad Sahu

Address: Basaniya (Devari), Bargi, Jabalpur

Mobile Number: 7879617336

Age: 42 years

Education: Primary

Size of land holding (in acre): 4

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	4	19	29450	18613
Field Crop 2	Wheat	4	15	26025	14545
Total			**34**	**55475**	**33158**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	3	24	44832	33995	26.3	82.6
Field Crop 2	Wheat	3	21	41475	32572	40.0	124
Total			**45**	**86307**	**66567**	**32.4**	**101**

Brief : The farmer used to get net annual income of ₹ 33158/acre from rice and wheat. He faced problems like lack of information on weed management, balanced fertilizers and advanced machineries. With interventions like balanced use of fertilizer and weed management under conservation agriculture, he is getting net annual income of ₹ 66567/acre. In addition, there is cost saving of ₹ 3629/acre in the production of rice and wheat crops due to saving in field preparation under conservation agriculture.

Direct-seeded rice

Wheat

Conservation Agriculture in rice-wheat system

Name of farmer : Sh. Magan Lal Jhariya

Address: Devri (Basaniya), Bargi, Jabalpur

Mobile Number: 6265619895

Age: 55 years

Education: 8th

Size of land holding (in acre): 3

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	3	19	29450	18613
Field Crop 2	Wheat	3	15	26025	14545
Total			**34**	**55475**	**33158**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	3	24	44832	33995	26.3	82.6
Field Crop 2	Wheat	3	22	43450	34547	46.7	138
Total			**46**	**88282**	**68542**	**35.3**	**107**

Brief : The farmer used to get net annual income of ₹ 33158/acre from rice and wheat. He faced problems like lack of technical know how; knowledge on improved weed management etc. With interventions like improved weed management and adoption of conservation agriculture (CA), his net annual income increased to ₹ 68542/acre. In addition, there is a cost saving of ₹ 3510/acre in the production of rice and wheat due to sowing under zero till condition.

Direct-seeded rice

Wheat

Conservation Agriculture in rice-wheat system

Name of farmer : Sh. Ramkumar Patel

Address: Harduli (Mankedi), Bargi, Jabalpur

Mobile Number: 9406534600

Age: 67 years

Education: 8th

Size of land holding (in acre): 1.5

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	1	18.0	27900	17063
Field Crop 2	Wheat	1	14.5	25158	13678
Total			**32.5**	**53058**	**30741**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	1	23	42964	32127	27.8	88
Field Crop 2	Wheat	1	21	41475	32572	44.8	138
Total			**44**	**84439**	**64699**	**35.4**	**111**

Brief : The farmer used to get net annual income of ₹ 30741/acre from rice and wheat crops. He faced problems like improved seed, lack of technical knowledge on weed management and machineries. With interventions like weed management and use of happy seed drill machine for sowing of crops, he is getting net annual income of ₹ 64699/acre. In addition, there is a cost saving of ₹ 3091/acre in the production of rice and wheat.

Sowing of wheat with Happy Seeder

Wheat

Conservation Agriculture in rice-wheat system

Name of farmer : Sh. Bejnath Lodhi

Address: Bharda, Panagar, Jabalpur

Mobile Number: -

Age: 55 years

Education: -

Size of land holding (in acre): 1

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net (Income ₹/acre)
Field Crop 1	Rice	1	10	14700	5104
Field Crop 2	Wheat	1	12	19500	9384
Total			**22**	**34200**	**14488**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	1	16	29888	33995	26.3	82.6
Field Crop 2	Wheat	1	18	35550	32572	40.0	124
Total			**34**	**65438**	**50376**	**55**	**248**

Brief : The farmer used to get net annual income of ₹ 14488/acre from rice and wheat. He faced problems like lack of knowledge on advanced herbicide for weed management, balanced use of fertilizer and high cost of cultivation. With interventions like use of recommended dose of fertilizer and weed management under conservation agriculture techniques, he is getting net annual income of ₹ 50376/acre. In addition, there is cost saving of ₹ 4650/acre in the production of rice and wheat.

Rice

Wheat

Conservation Agriculture in rice-wheat system

Name of farmer : Sh. Netram Patel

Address: Bharda, Panagar, Jabalpur

Mobile Number: 7489514373

Age: 55 years

Education: 8th

Size of land holding (in acre): 1

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	1	12	17640	9104
Field Crop 2	Wheat	1	15	19500	10412
Total			**27**	**37140**	**19516**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	1	17	31756	24340	42	167
Field Crop 2	Wheat	17	16	31600	23554	33	126
Total			**33**	**63356**	**47894**	**38**	**145**

Brief : The farmer used to get net annual income of ₹ 19516/acre from rice and wheat. He faced problems like lack of technical know-how on improved weed management and balanced use of fertilizer/seed. With interventions like sowing of crops using Happy seed drill machine and weed management through advanced herbicide, he is getting net annual income of ₹ 47894/acre. In addition, there is cost saving of ₹ 3162/acre in the production of rice and wheat.

Direct-seeded rice

Wheat

Conservation Agriculture in rice-wheat system

Name of farmer : Sh. Ratan Patel

Address: Bharda, Panagar, Jabalpur

Mobile Number: -

Age: 50 years

Education: Primary

Size of land holding (in acre): 3

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	3	10	14700	4400
Field Crop 2	Wheat	3	12	19500	9080
Total			**22**	**34200**	**13480**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	3	20	37360	30044	100	583
Field Crop 2	Wheat	3	19	37525	29779	58	228
Total			**39**	**74885**	**59823**	**77**	**344**

Brief : The farmer used to get net annual income of ₹ 13480/acre from rice and wheat. He faced problems like high weed infestation, lack of knowledge on weed management in different crops and high production cost. With interventions like adoption of conservation agriculture and improved weed management, he was able to save money and resources and getting net annual income of ₹ 59823/acre. In addition, there is cost saving of ₹ 5658/acre in the production of rice and wheat due to use of Happy seeder for sowing without field preparation.

Direct-seeded rice

Wheat

Conservation Agriculture in rice-wheat system

Name of farmer : Sh. Jenu Prasad Bhagdiya

Address: Saliwada (Taniya), Bargi, Jabalpur

Mobile Number: 9691755901

Age: 42 years

Education: Illiterate

Size of land holding (in acre): 2

1) Before Intervention

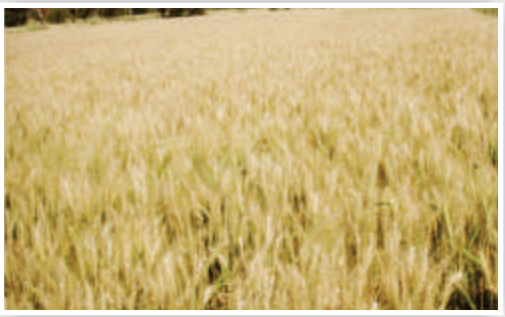
Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	2	8	11760	3882
Field Crop 2	Wheat	2	8	13000	6382
Total			**16**	**24760**	**10264**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	2	15	28020	19654	87.5	406
Field Crop 2	Wheat	2	10	19750	11610	25.0	82
Total			**25**	**47770**	**31264**	**56.3**	**205**

Brief : The farmer used to get net annual income of ₹ 10264/acre from traditional rice and wheat cultivation. He faced problems like lack of knowledge on advanced molecule for weed management, resource conservation techniques, appropriate seed rate and balanced fertilizer. With interventions like proper seed rate, sowing of crops through happy seed drill machine and improved weed management, he is getting net annual income of ₹ 31264/acre. In addition, there is a cost saving of ₹ 3209/acre in the production of rice and wheat.

Direct-seeded rice



Wheat

Tar-watter technology of DSR improved farmer's income

Name of farmer : Sh. Gurpreet Singh

Address: Mehraj, Rampura Phul, Bathinda
Mobile Number: 9463145292
Age: 35 years
Education: Metric
Size of land holding (in acre): 28 acre

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	28	9.54	51491	34451
Field Crop 2	Wheat	28	6.91	40137	23470
Total			**16.45**	**91628**	**57921**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	28	9.8	52850	37230	2.6	8
Field Crop 2	Wheat	28	7.3	42250	29903	5.3	27
Total			**17.1**	**95100**	**67133**	**3.8**	**16**

Brief : The farmer used to get annual income of ₹ 57921/acre from rice-wheat rotation. He faced problems like many flushes of resistant *Phalaris* minor in wheat which required 3 to 4 herbicide sprays; higher infestation of weeds in dry-direct seeded rice (DSR) which required 4 irrigations for uniform emergence of crop. With interventions like shifting from puddled transplanted rice to dry DSR and *tar-wattar* DSR sowing with Lucky seed drill (for simultaneously sowing and application of pre-emergence herbicide application) resulted into saving of 20-25% water than transplanted rice and 10% water saving than dry-DSR crop; sowing of wheat with happy seeder (energy and time saving technology) and integrated weed management approaches etc., he is now getting annual income of ₹ 67133/acre. In addition, there is cost saving of ₹ 5740/acre and getting the same production from rice-wheat rotation.

Tar-watter DSR sowing with lucky seed drill

Sowing of wheat with happy seeder

Source: AICRP-WM Centre, PAU, Ludhiana

Direct-seeded rice (tar-wattar) and Zero till wheat improved productivity and income

Name of farmer : Sh. Baldev Singh

Address: Talwandi Bhangerian, Moga

Mobile Number: 9417553080

Age: 50 years

Education: Metric

Size of land holding (in acre): 20 acre

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	20	31.8	48018	30548
Field Crop 2	Wheat	20	22.0	35750	19543
Total			**53.8**	**83768**	**50091**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	20	6.50	49075	34105	2.2	11.6
Field Crop 2	Wheat	20	4.64	37700	24893	5.5	27.4
Total			**11.1**	**86775**	**58998**	**3.5**	**17.8**

Brief : The farmer used to annual income of ₹ 50091/acre from rice-wheat rotation. He faced problems like delayed sowing of wheat which results into early emergence of *Phalaris* minor along with the wheat; being progressive farmer S. Baldev Singh is quit aware about the depletion of under ground water due to puddled transplanted rice in Moga. With interventions like sowing of wheat with happy seeder and sowing of rice in *tar-wattar* condition results into timely sowing of wheat with less infestation of *Phalaris* minor which reduced the herbicide load on the field; saving of 25-29% under ground water as compared to transplanted rice, respectively. He is now getting annual income of ₹ 58998/acre. In addition, there is cost saving of ₹ 5900/acre in rice-wheat rotation.

Tar-wattar direct-seeded rice

Happy Seeder sown wheat

Source: AICRP-WM Centre, PAU, Ludhiana

Improved weed management increased productivity and income in rice-wheat system

Name of farmer : Sh. Parakash Singh S/O Jagjeet Singh

Address: Village-Balkheda (Motiyapura) Post - Kelakheda
Distt- U.S. Nagar, Pin code- 263152

Mobile Number: 9012729461

Age: 54 years

Education: Intermediate

Size of land holding (in acre): 1

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	1	22.8	35340	24752
Field Crop 2	Wheat	1	42.4	31850	23887
Total			**65.2**	**67190**	**48639**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	1	26.0	48568	36426	14.0	47.2
Field Crop 2	Wheat	1	23.2	44660	33495	18.4	40.2
Total			**49.2**	**93228**	**69921**	**16.0**	**43.8**

Brief : The farmer used to get get net annual income of ₹ 48639/acre from rice and wheat. He faced problem like high cost of cultivation etc. With interventions in rice like bispyribac-sodium 10% SC 20 g/ha and clodinafop -propargyl 15.3% + metsulfuron-methyl 1% WP 60 + 4g/ha in wheat, he is getting net annual income of ₹ 69921/acre. In addition, there is cost saving of ₹ 2410/acre in the production of rice and wheat.

Rice

Wheat

Source: AICRP-WM Centre , GBPUAT, Pantnagar

Herbicide for weed management in rice-wheat system

Name of farmer : Sh. Ram Singh S/O Neerjan Singh

Address: Village-Aabad nagar Post-Jhagadpuri (Gaddarpur) Tehsil-Gaddarpur, Distt- U.S. Nagar Pin code- 263152

Mobile Number: 9837590062

Age: 63 years

Education: Illiterate

Size of land holding (in acre): 1

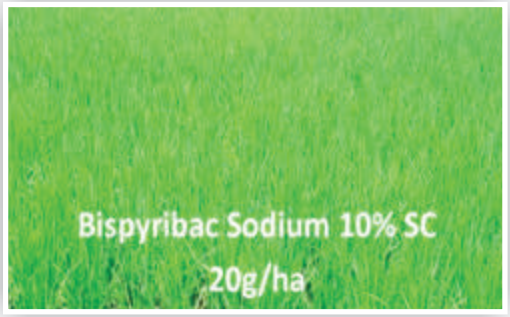
1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	1	21.6	33480	25110
Field Crop 2	Wheat	1	16.8	27300	20475
Total			**38.4**	**60780**	**45585**

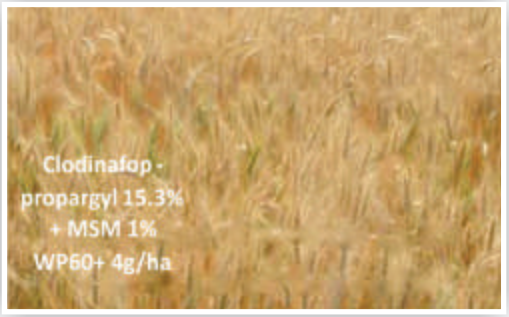
2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	1	24.8	44832	33624	14.8	33.9
Field Crop 2	Wheat	1	20.8	40040	30030	23.8	46.7
Total			**45.6**	**84872**	**63654**	**18.8**	**39.6**

Brief : The farmer used to get annual income of ₹ 45585/acre from rice and wheat. He faced problem like high weed infestation, underground seepage from canal during crop period so planting of wheat is delayed sometimes. With interventions like bispyribac sodium 10%SC 20g/ha in rice and clodinafop - propargyl 15.3% + MSM 1% WP 60 + 4g/ha in wheat for weed management, he is getting net annual income of ₹ 63654/acre. In addition , there is cost saving of ₹ 2410/acre in the production of rice and wheat.



Demonstration on weed management in rice



Demonstration on weed management in wheat

Source: AICRP-WM Centre , GBPUAT, Pantnagar

Improved weed management in rice-wheat system

Name of farmer : Sh. Pravind Kumar S/O Virendra Chand Mandal
Address: Village-Jagdeeshpur Post – Kalinagar (Rudrapur)
Distt- U.S. Nagar Pin code- 263152
Mobile Number: 9917351239
Age: 36 years
Education: B.A.
Size of land holding (in acre): 3

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	3	22.4	34720	26040
Field Crop 2	Wheat	3	18.4	29900	22425
Total			**40.8**	**64620**	**48465**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	3	25.2	47074	35305	12.5	35.6
Field Crop 2	Wheat	3	22.0	42350	31762	19.6	41.6
Total			**47.2**	**89424**	**67068**	**15.7**	**38.4**

Brief : The farmer used to get net annual income of ₹ 48465/acre from rice and wheat. The farmer was fully satisfied with his farming during crop period. With interventions like in rice bispyribac-sodium 10%SC 20g/ha and clodinafop - propargyl 15.3% + MSM 1% WP 60 + 4g/ha in wheat, he is getting annual income of ₹ 67068/acre. In addition, there is cost saving of ₹ 2410/acre in the production of rice and wheat.

Demonstration on weed management in rice

Wheat

Source: AICRP-WM Centre , GBPUAT, Pantnagar

Herbicides for broad-spectrum weed control in rice-wheat system

Name of farmer : Sh. Manjeet Dhali S/O Mangal Dhali

Address: Village-Jagdeeshpur Post - Kalinagar (Rudrapur)
Distt- U.S. Nagar Pin code- 263152

Mobile Number: 9639208764

Age: 28 years

Education: BBA

Size of land holding (in acre): 1

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	1	19.6	30380	22785
Field Crop 2	Wheat	1	16.0	26000	19500
Total			**35.6**	**56380**	**42285**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	1	24.0	44832	33624	22.4	47.6
Field Crop 2	Wheat	1	21.6	41580	31185	35.0	59.9
Total			**45.6**	**86412**	**64809**	**28.1**	**53.3**

Brief : The farmer used to get annual income of ₹ 42285/acre from rice and wheat. The farmer was fully satisfied with his farming during crop period. With interventions like bispyribac-sodium 10%SC 20g/ha in rice and clodinafop - propargyl 15.3% + MSM 1% WP 60+ 4g/ha in wheat, he is getting net annual income of ₹ 64809/acre. In addition, there is cost saving of ₹ 2410/acre in the production of rice and wheat.

Direct-seeded rice

Wheat

Source: AICRP-WM Centre , GBPUAT, Pantnagar

Weed management in rice-wheat system

Name of farmer : Sh. Abnish Kumar S/O Narayan Das

Address: Village - Motiyapura Aabad nagar Post - Kelakheda
Tehshil- Gaddarpur Distt- U.S. Nagar Pin code- 263152

Mobile Number: 9837029081

Age: 56 years

Education: B/A.

Size of land holding (in acre): 9

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	9	20	31000	23250
Field Crop 2	Wheat	9	15	24736	18552
Total			**35**	**55736**	**41802**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	9	24	45662	34247	22.2	47.3
Field Crop 2	Wheat	9	20	38500	28875	31.4	55.6
Total			**44**	**84162**	**63122**	**25.7**	**51**

Brief : The farmer used to get net annual income of ₹ 41802/acre from rice and wheat. The farmer faced the problem of connecting road to his farm, the irrigation canal overflow with bounty of weeds and high infestation of insects during the crop period. With interventions like bispyribac- sodium 10%SC 20g/ha in rice and clodinafop - propargyl 15.3% + metsulfuron-methyl 1% WP 60+ 4g/ha in wheat, he is getting net annual income of ₹ 63122/acre. In addition, there is cost saving of ₹ 2410/acre in the production of rice and wheat.

Weed management in rice

Weed management in wheat

Source: AICRP-WM Centre , GBPUAT, Pantnagar

Herbicides for improved weed management

Name of farmer : Sh. Kulwant Singh S/O Arjun Singh

Address: Village-Bawanpuri Post -Subhasnagar
Distt- U.S. Nagar Pin code- 263152

Mobile Number: 9927864867

Age: 47 years

Education: 10th

Size of land holding (in acre): 2

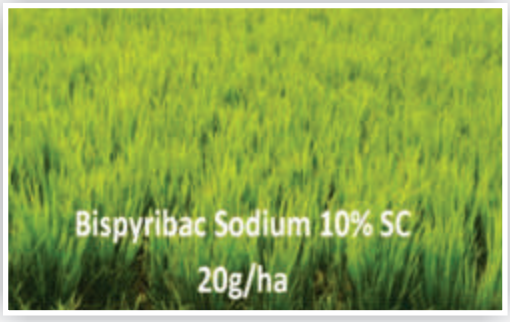
1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre/no.)	Production (q/acre/litres)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	2	21.6	33480	25110
Field Crop 2	Wheat	2	18.4	29900	22425
Other enterprise	Milk production (Cow)	2	1080	27000	14000
Total	-	-		**90380**	**61535**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	2	22.4	41843	31382	3.7	25.0
Field Crop 2	Wheat	2	24.8	47740	35805	34.8	59.7
Total			**47.2**	**89583**	**67187**	**18**	**9.2**

Brief : The farmer used to get annual income of ₹ 61535/acre from rice and wheat. He faced problems of increased infestation of insect and diseases which require twice or thrice application of insecticide and fungicides during crop the period. With interventions like Bispyribac Sodium 10%SC 20g/ha in rice and Clodinafop - propargyl 15.3% + MSM 1% WP 60+ 4g/ha in wheat, he is getting annual income of ₹ 67187/acre. In addition, there is cost saving of ₹ 2410/acre in the production of rice and wheat.



Weed management in rice though bispyribac sodium

Weed management in wheat

Source: AICRP-WM Centre , GBPUAT, Pantnagar

DSR improved rice productivity and income

Name of farmer : Sh. Khusdeep Singh

Address: Village- Mahamdakki, Dist. Fatehabad, Haryana

Mobile Number: 9416141027

Age: 32 years

Education: Higher Secondary

Size of land holding (in acre): 60

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	60	30	44000	33500
Field Crop 2	Wheat	60	21	33600	26600
Total			**51**	**77600**	**60100**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (Acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	60	30	54000	41600	0	24.2
Field Crop 2	Wheat	60	22	42300	33300	4.8	25.2
Total			**52**	**96300**	**74900**	**2.0**	**25.0**

Brief : The farmer used to get annual income of ₹ 60100/acre from rice and wheat. He faced problems like labour availability and irrigation facility etc. With interventions like direct sowing of rice (DSR), he is getting annual income of ₹ 74900/acre. In addition, there is cost saving of ₹ 2000/acre in the production of DSR.

Field visit of Scientists at Khusdeep Singh Field

30 days old crop at Khusdeep Singh Field

Source: AICRP-WM Centre, CCSHAU, Hisar

Management of herbicide resistant *Phalaris minor* in wheat

Name of farmer : Sh. Narender Singh Gill

Address: Village- Nangla, Dist. Fatehabad, Haryana

Age: 54 years

Education: Higher secondary

Size of land holding (in acre): 26 acre

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	26	30	42000	30000
Field Crop 2	Wheat	26	20	32000	24500
Total			**50**	**74000**	**54500**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	26	32	57000	385000	-	28
Field Crop 2	Wheat	26	23	43500	32700	-	33
Total			**55**	**100500**	**71200**	**10**	**30.6**

Brief : The farmer used to get annual income of ₹ 54500/acre from rice, wheat. He faced problems like *resistant Phalaris minor* etc. With interventions like use of pyroxasulfone + pendimethalin, he is getting annual income of ₹ 71200/acre.

Wheat sowing as well as pre-emergence spray of pyroxasulfone +pendimethalin with lucky seed drill

Field sown with lucky deed drill

Source: AICRP-WM Centre, CCSHAU, Hisar

Herbicidal weed control in maize

Name of farmer : Sh. Gautam Singh S/o Late Balber Singh

Address: Village-Katal Batal, Nagrota, Jammu, J&K

Mobile Number: 7051190820

Age: 26 years

Education: 12th

Size of land holding (in acre): 2.5

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	0.25	12.0	16800	10400
Field Crop 2	Maize	1.25	11.2	15680	8880
Field Crop 3	Wheat	1.75	11.4	18286	11086
Total			**34.6**	**50766**	**30366**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	0.25	20.0	28000	13600	66.67	30.77
Field Crop 2	Maize	1.25	14.4	17280	9680	28.57	9.01
Field Crop 3	Wheat	1.75	12.0	20229	12000	5.00	8.25
Total			**46.4**	**65509**	**35280**	**33.99**	**16.18**

Brief : The farmer used to get annual income of Rs. 30366/acre from rice, maize and wheat. The farmer faced problem of weeds in maize. With new intervention like tembotrione 100 g/ha + atrazine 500 g/ha at 15-20 DAS, he is getting 28.57% higher yield of maize and 9% higher income from maize as compared to baseline period. The farmer used to get annual income of Rs. 35280/acre.

Application of tembotrione 100 g/ha + atrazine 500 g/ha at 16 DAS

Wheat

Source: AICRP-WM Centre, SKUAST, Jammu

Rice-Wheat-Greengram Cropping System

Diversification of rice-wheat system for higher income

Name of farmer : Sh. Govind Sahu (Koto)

Address: Devari (Basaniya), Bargi, Jabalpur

Mobile Number: 6261021271

Age: 35 years

Education: 8th

Size of land holding (in acre): 3.5

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	3	19.2	29760	18923
Field Crop 2	Wheat	3	14.8	25678	14198
Total			**34.0**	**55438**	**33121**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	3	24	43898	33061	22.4	74.7
Field Crop 2	Wheat	3	21	39500	30597	35.1	116
Field Crop 3	Greengram	2	6.2	44615	29365	-	-
Total			**49.7**	**128013**	**93023**	**46.2**	**181**

Brief : The farmer used to get net annual income of ₹ 33121/acre from rice and wheat. He faced problems like lack of technical know-how on improved agriculture techniques, weed management and limited irrigation facilities. With interventions like improved weed management practices and adoption of conservation agriculture, he is getting net annual income of ₹ 93023/acre. In addition, there is cost saving of ₹ 3489/acre in the production of rice and wheat crops.

Sowing of summer greengram through Happy Seeder

Greengram at podding stage

Intensification of rice-wheat system with summer greengram

Name of farmer : Sh. Hira Patel

Address: Charghat Pipariya, Bargi, Jabalpur

Mobile Number: 9826347124

Age: 58 years

Education: M.Com. and LLB

Size of land holding (in acre): 20

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	2	16.5	25575	14738
Field Crop 2	Wheat	12	14.0	24290	12810
Total			**30.5**	**49865**	**27548**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	12	20.8	38554	28017	26.1	90
Field Crop 2	Wheat	20	18	35550	26647	28.5	134
Field Crop 3	Greengram	2	6.4	46054	30804	-	-
Total			**45.2**	**120158**	**85468**	**48.2**	**210**

Brief : The farmer used to get net annual income of ₹ 27548/acre from maize and wheat crops. He faced problems like lack of irrigation facilities, lack of know-how on weed management. With interventions such as information on improved variety seed, addition of greengram as third crop in cropping sequence, recommended dose of fertilizer along with improved weed management and adoption of conservation agriculture, he is getting net annual income of ₹ 85468/acre. In addition, there is cost saving of ₹ 2800/acre in the production of rice and wheat due to sowing with happy seeder without field preparation.

Sowing of summer greengram through happy seeder

Greengram at podding stage

Conservation Agriculture in rice-wheat system

Name of farmer : Sh. Virendra Shukla

Address: Rosara, Bargi, Jabalpur

Mobile Number: 8959584189

Age: 35 years

Education: High School

Size of land holding (in acre): 35

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	2	19.0	29450	18613
Field Crop 2	Wheat	15	15.5	26893	15413
Total			**34.5**	**56343**	**34026**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	25	22.8	42590	34753	20.0	86.7
Field Crop 2	Wheat	30	20.5	40488	31585	32.3	105
Field Crop 3	Greengram	4	6.2	44615	29365	-	-
Total			**49.5**	**127693**	**95703**	**43.5**	**181**

Brief : The farmer used to get net annual income of ₹ 34026/acre from rice and wheat crops. He faced problems like lack of technical knowledge on improved varieties, conservation agriculture, knowledge on weed management and advanced machineries. With interventions like addition of greengram as third crop in cropping sequence and weed management alon with adoption of conservation agriculture, he is getting net annual income of ₹ 95703/acre. In addition, there is cost saving of ₹ 3215/acre in the production of rice and wheat due to sowing with happy seeder without field preparation.

Wheat

Summer greengram

Diversification of rice-wheat system for higher income

Name of farmer : Sh. Mool Chand Netam

Address: Saliwada (Tunia), Bargi, Jabalpur

Mobile Number: 9407059085

Age: 38 years

Education: Primary

Size of land holding (in acre): 7

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	3	17.8	27590	16753
Field Crop 2	Wheat	3	15.5	26893	15413
Total			**33.3**	**54483**	**32166**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	3	22.5	42030	31193	26.0	86.2
Field Crop 2	Wheat	3	21.0	41475	32572	35.5	111
Field Crop 3	Greengram	2	6.4	46054	30804	-	-
Total			**49.9**	**129559**	**94569**	**49.8**	**194**

Brief : The farmer used to get net annual income of ₹ 32166/acre from rice and wheat. He faced problems like lack of technical know-how on weed management, improved variety seed, balanced fertilizer and unavailability of improved machineries. With interventions like improved weed management, adoption of conservation agriculture (CA) technology; he is getting net annual income of ₹ 94569/acre. In addition, there is cost saving of ₹ 3514/acre in the production of rice and wheat.

Direct seeded rice

Wheat

Intensification of rice-wheat system with summer greengram

Name of farmer : Sh. Rajkumar Armo (Hukum Armo)

Address: Saliwada (Tunia), Bargi, Jabalpur

Mobile Number: 8319388715

Age: 26 years

Education: BE

Size of land holding (in acre): 2.5

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (Acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	2	19	29450	18613
Field Crop 2	Wheat	2	15	26025	14545
Total			**34**	**55475**	**33158**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (Acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	2	21	39228	28391	10.5	52.5
Field Crop 2	Wheat	2	17	33575	24672	13.3	69.6
Field Crop 3	Greengram	2	5	35980	28398	100	100
Total			**43**	**108783**	**81461**	**26.5**	**145.7**

Brief : The farmer used to get net annual income of ₹ 33158/acre from rice and wheat. He faced problems like lack of knowledge on advanced technologies including conservation agriculture, improved varieties and weed infestation in crops. With interventions like weed management under conservation agriculture and inclusion of greengram as third crop in cropping sequence, he is getting net annual income of ₹ 81461/acre. In addition, there is cost saving of ₹ 4654/acre in the production of rice and wheat due to saving under zero till condition.

Wheat

Summer greengram

Conservation Agriculture in rice-wheat greengram system

Name of farmer : Sh. Hukum Dubey

Address: Rosara, Bargi, Jabalpur

Mobile Number: 9753910837

Age: 65 years

Education: 6th

Size of land holding (in acre): 1.25

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	1	17.5	27125	16288
Field Crop 2	Wheat	1	15.0	26025	14545
Total			**32.5**	**53150**	**30833**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	1	23.5	43898	33061	34.3	103
Field Crop 2	Wheat	1	20.8	41080	32177	38.7	121
Field Crop 3	Greengram	1	5.80	41737	26487	-	-
Total			**50.1**	**126715**	**91725**	**54.1**	**197**

Brief : The farmer used to get net annual income of ₹ 30833/acre from rice and wheat. He faced problems like lack of information on weed management, improved seed and balanced fertilizer along with limited irrigation facilities. With interventions like use of improved seed of greengram, recommended dose of fertilizer, improved weed management and adoption of conservation agriculture, he is getting net annual income of ₹ 91725/acre. In addition, there is cost saving of ₹ 3026/acre in the production of rice and wheat due to use of happy seeder for sowing.

Direct-seeded rice

Summer greengram

Integrated weed management in rice-wheat-greengram system under conservation agriculture

Name of farmer : Sh. Aditya Tiwari

Address: Futatal, Panagar, Jabalpur

Mobile Number: 8839493312

Age: 42 years

Education: Graduation

Size of land holding (in acre): 20

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	20	15	22050	10440
Field Crop 2	Wheat	20	14	22750	13344
Field Crop 3	Summer greengram	5	3.5	18288	10088
Total			**32.5**	**63088**	**33872**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	20	20	37360	29980	33.3	187
Field Crop 2	Wheat	20	18	35550	27740	28.6	108
Field Crop 3	Summer greengram	10	6.5	46774	38934	85.7	286
Total			**44.5**	**119684**	**96654**	**36.9**	**185**

Brief : The farmer used to get total net annual income of ₹ 33872/acre from rice, wheat and summer greengram. He faced problems like delayed sowing of subsequent crops of wheat and summer greengram due to longer time in field preparation and lack of information on weed management. With interventions like improved weed management and Zero Tillage sowing immediately after harvesting of preceding crops with Happy Seeder (conservation agriculture), he is now getting total net annual income of ₹ 96654/acre. In addition, there is cost saving of ₹ 6186/acre in the production of rice, wheat and summer greengram.

Wheat

Summer greengram

Intensification of rice-wheat system and improved weed management

Name of farmer : Sh. Jitendra Singh

Address: Guleda, Patan, Jabalpur

Mobile Number: 9165355052

Age: 32 years

Education: Higher Secondary

Size of land holding (in acre): 22

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	22	15	22050	11390
Field Crop 2	Wheat	22	14	22750	13290
Total			**29**	**44800**	**24680**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	22	21	39228	31448	40	176
Field Crop 2	Wheat	22	18	35550	28140	28.6	112
Field Crop 2	Greengram	5	6	43176	35836	100	100
Total			**45**	**117954**	**95424**	**55**	**287**

Brief : The farmer used to get total net annual income of ₹ 24680/acre from wheat and rice. Before intervention, he was unaware of the advanced technologies such as conservation agriculture, improved varieties, weed management, spraying technique and seed treatment etc. With interventions like improved varieties, balanced use of fertilizer, improved weed management and use of Happy seed drill machine for ZT sowing of rice, wheat and greengram, he is now earning net annual income of ₹ 95424/acre. In addition, there is cost saving of ₹ 4930/acre in the production of rice, wheat and greengram.

Wheat

Summer greengram

CA system and improved weed management in rice-wheat-greengram system

Name of farmer : Sh. Pritam Singh Rajpoot

Address: Guleda, Patan, Jabalpur

Mobile Number: 9826649108

Age: 47 years

Education: BA

Size of land holding (in acre): 6

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	6	15	22050	11800
Field Crop 2	Wheat	6	14	22750	12780
Total			**29**	**44800**	**24580**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	6	18	33624	25944	20	120
Field Crop 2	Wheat	6	17	33575	26165	21	105
Field Crop 2	Greengram	1	5	35980	28540	100	100
Total			**40**	**103179**	**80649**	**38**	**228**

Brief : The farmer used to get net annual income of ₹ 24580/acre from wheat and rice. He faced problems like lack of knowledge on improved seed/variety, balanced dose of fertilizer and proper weed management. With interventions like inclusion of greengram as third crop and proper weed management under conservation agriculture, he is getting net annual income of ₹ 80649/acre. In addition, there is cost saving of ₹ 5130/acre in the production of rice, wheat and greengram.

Rice

Summer greengram

Intensification of rice-wheat system with summer greengram

Name of farmer : Sh. Ankit Rajpoot

Address: Guleda, Patan, Jabalapur

Mobile Number: 9340631926

Age: 24 years

Education: Graduation, ITI

Size of land holding (in acre): 7

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	7	15	22050	12190
Field Crop 2	Wheat	7	15	28090	14565
Total			**30**	**46425**	**26755**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	7	18	33625	25944	20	113
Field Crop 2	Wheat	7	18	35550	28090	20	93
Field Crop 2	Greengram	7	5	35980	28640	100	100
Total			**41**	**105154**	**82674**	**37**	**209**

Brief : The farmer used to get net annual income of ₹ 26755/acre from rice and wheat before intervention. He faced problems like lack of technical know-how on improved agriculture, seed treatment, machineries and on proper weed management. With interventions like inclusion of greengram as third crop under conservation agriculture and improved weed management in all three crops, he is getting net annual income of ₹ 82674/acre. In addition, there is cost saving of ₹ 4530/acre in the production of rice, wheat and greengram.

Direct-seeded rice

Wheat

Diversification of rice-wheat system for higher income

Name of farmer : Sh. Mohit Singh Rajppot

Address: Guleda, Patan, Jabalpur

Mobile Number: 9301349627

Age: 19 years

Education: Higher Secondary

Size of land holding (in acre): 6.5

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	6.5	14	20580	10880
Field Crop 2	Wheat	3.0	13	21125	11165
Field Crop 3	Chickpea	3.5	4	12000	3550
Total			**31**	**53705**	**25595**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	6.5	17	31756	24076	21	121
Field Crop 2	Wheat	4	17	33575	25515	31	129
Field Crop 3	Chickpea	2.5	6.5	33150	27240	63	667
Field Crop 4	Summer greengram	6.5	5	35980	28540	100	100
Total			**45.5**	**134461**	**105371**	**46.8**	**312**

Brief : The farmer used to get net annual income of ₹ 25595/acre from rice, wheat and chickpea. He faced problems like lack of knowledge on improved varieties, seed treatment, balanced use of fertilizer and improved weed management in different crops. With interventions like introduction of chickpea during Rabi, cultivation of greengram as third crop, recommended dose of fertilizer, and improved weed management under conservation agriculture, he is getting net annual income of ₹ 105371/acre. In addition, there is cost saving of ₹ 6460/acre in the production of rice, wheat, chickpea and greengram.

Rice

Chickpea

Intigrated weed management in CA based rice-wheat-greengram system

Name of farmer : Sh. Ganesh Singh Rajpoot

Address: Guleda, Patan, Jabapur

Mobile Number: 7224916216

Age: 45 years

Education: 8th

Size of land holding (in acre): 7

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	7	14	20580	10920
Field Crop 2	Wheat	7	13	21125	11405
Total			**27**	**41705**	**22325**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	7	18	33624	26094	28.6	139
Field Crop 2	Wheat	7	17	33575	25615	30.8	125
Field Crop 3	Summer greengram	5	5	35980	28540	100	100
Total			**40**	**103179**	**80249**	**48**	**259**

Brief : The farmer was cultivating rice and wheat conventionally and getting net annual income of ₹ 22325/acre before intervention. He faced problems like lack of technical information on improved varieties, conservation agriculture, weed management, balanced use of fertilizer and advanced machineries. With interventions like inclusion of greengram as third crop, weed management under conservation agriculture and balanced use of fertilizer, he is now getting net annual income of ₹ 80249/acre. In addition, there is cost saving of ₹ 3890/acre in the production of rice, wheat and greengram.

Direct-seeded rice

ZT wheat

Conservation Agriculture for higher production and income

Name of farmer : Sh. Randheer Singh

Address: Lakhra, Patan, Jabalpur

Mobile Number: 9584251920

Age: 34 years

Education: High School

Size of land holding (in acre): 20

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	20	15	22050	11550
Field Crop 2	Wheat	20	14	22750	13340
Field Crop 3	Summer greengram	5	3	15675	7475
Total			**31**	**60475**	**32365**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	20	21	39228	31348	40.0	171
Field Crop 2	Wheat	20	18	35550	28090	28.6	111
Field Crop 3	Summer greengram	10	6	43176	35736	100	378
Total			**45**	**117954**	**95174**	**40.6**	**194**

Brief : The farmer used to get net annual income of ₹ 32365/acre from conventional practice of rice, wheat and summer greengram. He faced problems like lack of information on improved seed, balanced fertilizer and weed management. He was not aware of the conservation agriculture technologies. With interventions like weed management under conservation agriculture in all crops, he is now getting net annual income of ₹ 95174/acre. In addition, there is cost saving of ₹ 5330/acre in the production of rice, wheat and summer greengram.

Greengram under conservation agriculture

Intensification of rice-wheat system with summer greengram

Name of farmer : Sh. Chandresh Biloha

Address: Singhaldeep, Patan, Jabalpur

Mobile Number: 9755439023

Age: 35 years

Education: B.Sc.

Size of land holding (in acre): 11

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	11	15	22050	11390
Field Crop 2	Wheat	11	14	22750	13390
Total			**29**	**44800**	**24780**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	11	18	33624	25744	20	126
Field Crop 2	Wheat	11	18	35550	28090	29	110
Field Crop 3	Summer greengram	5	5.5	39578	32238	100	100
Total			**41.5**	**108752**	**86072**	**43**	**247**

Brief : Before our intervention, farmer used to get net annual income of ₹ 24780/acre from rice and wheat. He faced problems like lack of technical know-how on seed treatment, proper weed management and advanced machineries. With interventions like inclusion of greengram as third crop, use of improved seed/variety and weed management practices under conservation agriculture, he is now getting net annual income of ₹ 86072/acre. In addition, there is cost saving of ₹ 4680/acre in the production of rice, wheat and greengram.

Direct-seeded rice

Summer greengram

Diversification of rice-wheat system for higher income

Name of farmer : Sh. Atul Singh Rajpoot

Address: Guleda, Panagar, Jabalpur

Mobile Number: 9340631986

Age: 25 years

Education: B.Com

Size of land holding (in acre): 8

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	8	14	20580	9720
Field Crop 2	Wheat	8	14	22750	12670
Total			**28**	**43330**	**22390**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	8	20	37360	29830	42.9	207
Field Crop 2	Wheat	6	18	35550	27540	28.6	117
Field Crop 3	Chickpea	2	7.5	38250	32240	100	100
Field Crop 4	Summer greengram	3	6	43176	35236	100	100
Total			**51.5**	**154336**	**124846**	**83.9**	**458**

Brief : The farmer used to get net annual income of ₹ 22390/acre from rice and wheat. He faced problems like lack of knowledge on advanced crop cultivation techniques along with weed management. With interventions like addition of greengram as third crop under conservation agriculture and improved weed management in all crops, he is getting net annual income of ₹ 124846/acre. In addition, there is cost saving of ₹ 5400/acre in the production of rice and wheat crops.

Direct-seeded rice

Chickpea

Conservation Agriculture in rice-wheat system

Name of farmer : Sh. Shailendra Singh Rajpoot

Address: Guleda, Patan, Jabapur

Mobile Number: 8827818219

Age: 30 years

Education: Higher Secondary

Size of land holding (in acre): 22

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	22	15	22050	11150
Field Crop 2	Wheat	22	13	21125	11715
Total			**28**	**43175**	**22865**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	22	20	37360	29680	33.3	166
Field Crop 2	Wheat	22	18	.5550	27680	38.5	136
Field Crop 3	Greengram	5	6.5	46774	39334	100	100
Total			**44.5**	**119684**	**96694**	**59**	**322**

Brief : Before intervention, farmer was getting net annual income of ₹ 22865/acre from rice and wheat. He faced problems like lack of knowledge on proper weed management and advanced cultivation techniques. With interventions like proper weed management, adoption of conservation agriculture (CA), use of improved varieties and balanced fertilizer, he is getting net annual income of ₹ 96694/acre. In addition, there is cost saving of ₹ 4760/acre in the production of rice, wheat and greengram.

Wheat field sown with Happy Seeder

Wheat in CA

Diversification of rice-wheat system for higher income

Name of farmer : Sh. Manohar Singh Rajpoot

Address: Guleda, Patan, Jabalpur

Mobile Number: 9340631986

Age: 52 years

Education: BA

Size of land holding (in acre): 7

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	7	15	22050	11940
Field Crop 2	Wheat	4	14	22750	13340
Field Crop 3	Chickpea	3	5	20000	13725
Total			**34**	**64800**	**39005**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	7	15	33624	26044	20.0	118
Field Crop 2	Wheat	4	14	33575	26165	21.4	96
Field Crop 3	Chickpea	3	5	35700	29690	40.0	116
Field Crop 4	Summer greengram	5	34	39578	32238	100	100
Total			**68**	**142477**	**114137**	**39.7**	**196**

Brief : The farmer used to get net annual income of ₹ 39005/acre from rice, wheat and greengram. He faced problems like lack of technical knowledge on improved seed/variety, weed management and profitable technologies in raising crops. With interventions like improved weed management, use of Happy seed drill for sowing, balanced fertilizer and improved varieties, he is getting net annual income of ₹ 114137/acre. In addition, there is cost saving of ₹ 5490/acre in the production of rice, wheat and greengram.

Wheat

Chickpea

Improved weed management in CA-based rice-wheat-greengram system

Name of farmer : Sh. Sanjay Dubey

Address: Bharda, Panagar, Jabalpur

Mobile Number: 9827813962

Age: 45 years

Education: Higher Secondary

Size of land holding (in acre): 3

1) Before Intervention

Component Description		Period 2020-21			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	3	13	19110	7574
Field Crop 2	Wheat	3	14	22750	10194
Field Crop 3	Summer greengram	3	2.5	13063	3963
Total			**29.5**	**54923**	**21731**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	3	20	37360	29944	53.9	295
Field Crop 2	Wheat	3	19	37525	29969	35.7	194
Field Crop 3	Summer greengram	3	6	43176	35254	140	790
Total			**45**	**118061**	**95167**	**52.5**	**338**

Brief : The farmer used to get net annual income of ₹ 21731/acre from rice, wheat and summer greengram. He faced problems like lack of technical knowledge on improved agriculture practices, balance use of fertilizers, proper weed management and machineries. With interventions like improved varieties, proper weed management under conservation agriculture and balance use of fertilizer, he is getting net annual income of ₹ 95167/acre. In addition, there is cost saving of ₹ 8298/acre in the production of rice, wheat and summer greengram.3

Direct-seeded rice

Wheat

Improved weed management in CA-based rice-wheat-greengram system

Name of farmer : Sh. Ravi Garg

Address: Padaria, Panagar, Jabalpur

Age: 50 years

Education: Higher Secondary

Size of land holding (in acre): 2

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	2	13	19110	7760
Field Crop 2	Wheat	2	12	19500	8404
Total			**25**	**38610**	**16164**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	2	18	33624	26244	38.5	238
Field Crop 2	Wheat	2	17	33575	25815	41.7	207
Field Crop 3	Summer greengram	2	5	35980	28040	100	100
Total			**40**	**103179**	**80099**	**60**	**396**

Brief : Before intervention, farmer used to get net annual income of ₹ 16164/acre from rice and wheat. He faced problems like high weed infestation and lack of knowledge on improved seed/variety, balanced use of fertilizers and seed treatment. With interventions like appropriate seed rate, inclusion of greengram as third crop in cropping sequence, balance use of fertilizer and weed management under conservation agriculture, he is getting net annual income of ₹ 80099/acre. In addition, there is cost saving of ₹ 7306/acre in the production of rice and wheat.

Direct-seeded rice

Summer greengram

Improved weed management in CA-based rice-wheat-greengram system

Name of farmer : Sh. Kamlesh Garg

Address: Padaria, Panagar, Jabalpur

Mobile Number: 9300111431

Age: 47 years

Education: Higher Secondary

Size of land holding (in acre): 6

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	6	14	20580	9280
Field Crop 2	Wheat	6	14	22750	11580
Total			**28**	**43330**	**20860**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	6	20	37360	30030	42.9	224
Field Crop 2	Wheat	6	18	35550	27804	28.6	140
Field Crop 3	Summer greengram	6	5.5	39578	31738	100	100
Total			**43.5**	**112488**	**89572**	**55.34**	**329**

Brief : The farmer used to get net annual income of ₹ 20860/acre from rice and wheat. He faced problems like lack of technical know-how on improved weed management and profitable cultivation techniques. With interventions like improved agriculture practices, inclusion of greengram as third crop and proper weed management under conservation agriculture, he is getting net annual income of ₹ 89572/acre. In addition, there is cost saving of ₹ 7394/acre in the production of rice, wheat and summer greengram.6

Wheat

Summer greengram

Intensification of rice-wheat system with summer greengram

Name of farmer : Sh. Rahul Lodhi

Address: Bharda, Panagar, Jabalpur

Mobile Number: 6261857883

Age: 28 years

Education: 9th

Size of land holding (in acre): 6.5

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	6.5	12	17640	7704
Field Crop 2	Wheat	6.5	13	21125	9929
Total			**25**	**38765**	**17633**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	6.5	18	33624	26308	50.0	242
Field Crop 2	Wheat	6.5	18	35550	27994	38.5	182
Field Crop 3	Summer greengram	3.0	4.5	32382	24700	100	100
Total			**40.5**	**101556**	**79002**	**62.0**	**348**

Brief : The farmer used to get net annual income of ₹ 17633/acre from rice and wheat. He faced problems like lack of knowledge on balance use of fertilizer/seed, proper weed management and use of advanced machineries. With interventions like weed management and adoption of conservation agriculture, he is getting net annual income of ₹ 79002/acre. In addition, there is cost saving of ₹ 6260/acre in the production of rice and wheat crop due to sowing with Happy seeder without field preparation .

Direct-seeded rice

Wheat

Integrated weed management in CA-based rice-wheat-greengram system

Name of farmer : Sh. Heera Lal Kushwah

Address: Bharda, Panagar, Jabalpur

Mobile Number: -

Age: 35 years

Education: Primary

Size of land holding (in acre): 2.5

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	2.5	12	17640	7904
Field Crop 2	Wheat	2.5	11	17875	6487
Total			**23**	**35515**	**14391**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	2.5	19	35492	24426	58.3	209
Field Crop 2	Wheat	2.5	18	35550	27790	63.6	328
Field Crop 3	Summer greengram	2.5	5.5	39578	31638	100	100
Total			**42.5**	**110620**	**83854**	**84.8**	**483**

Brief : The farmer used to get net annual income of ₹ 14391/acre from rice and wheat. He faced problems like lack of knowledge on improved technologies of crop production and weed management. With interventions like balance use of fertilizer, quality seeds of improved varieties, weed management through new herbicide molecules and raising of crops under conservation agriculture, he is now getting net annual income of ₹ 83854/acre. In addition, there is a cost saving of ₹ 6034/acre in the production of rice, wheat and greengram.

Direct-seeded rice

Wheat

Integrated weed management in CA-based rice-wheat-greengram system

Name of farmer : Sh. Anand Sahu

Address: Padaria, Panagar, Jabalpur

Mobile Number: 6260581313

Age: 23 years

Education: Higher Secondary

Size of land holding (in acre): 7

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	7	13	19110	7600
Field Crop 2	Wheat	7	14	22750	11334
Total			**27**	**41860**	**18934**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	7	20	37360	29980	53.9	295
Field Crop 2	Wheat	7	18	35550	27790	28.6	145
Field Crop 3	Summer greengram	5	5.5	39578	32488	100	100
Total			**43.5**	**112488**	**90258**	**61**	**377**

Brief : The farmer used to get net annual income of ₹ 18934/acre from rice and wheat. He faced problems like lack of knowledge on appropriate use of fertilizers, seed and weed management practices. With interventions like use of improved variety, balanced fertilizer, quality seeds of improved variety and weed management under conservation agriculture, he is getting net annual income of ₹ 90258/acre. In addition, there is cost saving of ₹ 7786/acre in the production of rice, wheat and greengram.

Direct-seeded rice

Summer greengram

Conservation Agriculture in rice-based cropping system

Name of farmer : Sh. Satish Dubey

Address: Bharda, Panagar, Jabalpur

Mobile Number: 8839753977

Age: 50 years

Education: High School

Size of land holding (in acre): 7.0

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	7	12	17640	6784
Field Crop 2	Wheat	5	14	22750	11994
Field Crop 3	Chickpea	2	5	20000	11425
Field Crop 4	Summer greengram	3	3	15675	6575
Total			**34**	**76065**	**36778**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	7	22	41096	33880	83	399
Field Crop 2	Wheat	5	22	43450	35894	57	199
Field Crop 3	Chickpea	2	10	51000	44790	100	292
Field Crop 4	Summer greengram	7	6.5	46774	38852	117	491
Total			**60.5**	**182320**	**153416**	**78**	**317**

Brief : The farmer used to get net annual income of Rs. 36778/acre from rice, wheat, chickpea and summer greengram. He faced problems like lack of technical know-how on advanced agriculture practices, proper weed management, recommended dose of fertilizer and conservation agriculture. With interventions like use of improved seeds, fertilizer and proper weed management under conservation agriculture, he is getting net annual income of Rs. 153416/acre. In addition, there is cost saving of Rs. 10383/acre in the production of rice, wheat, chickpea and summer greengram.7.0

Direct-seeded rice

Wheat

Improved weed management in CA-based rice-wheat-greengram system

Name of farmer : Manish Paliwal

Address: Mangaw Simaria, Sehora, Jabalpur

Mobile Number: 9926552399

Age: 36 years

Education: Graduate

Size of land holding (in acre): 12

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	12	13	19110	7914
Field Crop 2	Wheat	12	14	22750	11254
Field Crop 3	Summer greengram	2	3.0	15675	6075
Total			**30**	**57535**	**25243**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	12	19	35492	28076	46.2	255
Field Crop 2	Wheat	12	18	35550	27994	28.6	149
Field Crop 3	Summer greengram	12	6.5	46774	39092	117	544
Total			**43.5**	**117816**	**95162**	**45**	**277**

Brief : The farmer used to get net annual income of ₹ 25243/acre from rice, wheat and summer greengram. He faced problems like lack of information on improved cultivation practices, varieties, proper use of herbicide for weed management, balanced fertilizer and appropriate seed rate for crops. With interventions like improved varieties, use of recommended doses of fertilizer, use of happy seed drill for sowing of crops and proper weed management, he is getting net annual income of ₹ 95162/acre. In addition, there is cost saving of ₹ 9638/acre in the production of rice, wheat and summer greengram.

Direct-seeded rice

Greengram under conservation agriculture

Improved weed management and CA system for high income

Name of farmer : Sh. Yashvant Dubey

Address: Bharda, Panagar, Jabalpur

Mobile Number: 6263410965

Age: 43 years

Education: 8th

Size of land holding (in acre): 3

1) Before Intervention

Component Description		Period 2020-21			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	3	11	16170	6650
Field Crop 2	Wheat	2	12	19500	9840
Field Crop 3	Chickpea	1	5	20000	12180
Field Crop 4	Summer greengram	2	3	15675	7755
Total			**31**	**71345**	**36425**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	3	20	37360	29930	82	350
Field Crop 2	Wheat	2	20	39500	31944	67	225
Field Crop 3	Chickpea	1	9	45900	39790	80	227
Field Crop 4	Summer greengram	2	6.5	46774	38949	117	402
Total			**55.5**	**169534**	**140613**	**79**	**286**

Brief : The farmer used to get net annual income of ₹ 36425/acre from rice, wheat, chickpea and greengram. He faced problems like lack of technical information on profitable cultivation techniques, improved weed management, and recommended doses of fertilizer. With interventions like sowing with Happy seed drill machine, use of improved varieties, balanced fertilizer and improved weed management in crops, he is getting net annual income of ₹ 140613/acre. In addition, there is cost saving of ₹ 5999/acre in the production of rice, wheat, chickpea and greengram.

Direct-seeded rice at farmers field

Greengram under conservation agriculture

Intensification of rice-wheat system with summer greengram

Name of farmer : Sh. Sankar Singh Thakur

Address: Bharda, Panagar, Jabalapur

Mobile Number: -

Age: 73 years

Education: Illiterate

Size of land holding (in acre): 4

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	4	13	19110	9854
Field Crop 2	Wheat	4	14	22750	12922
Total			**27**	**41860**	**22776**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	4	17	31756	24620	30.8	150
Field Crop 2	Wheat	4	19	37525	29779	35.7	131
Field Crop 3	Summer greengram	4	6	43176	35594	100	100
Total			**42**	**112457**	**89993**	**55.6**	**295**

Brief : The farmer used to get net annual income of ₹ 22776/acre from rice and wheat. He faced problems like high weed infestation in crops, lack of technical knowledge on proper weed management, balanced use of fertilizer and proper seed rate. With interventions like use of Happy seed drill machine for sowing under conservation agriculture (CA), balanced use of fertilizer and improved weed management, he is getting net annual income of ₹ 89993/acre. In addition, there is cost saving of ₹ 4202/acre in the production of rice and wheat.

Wheat

Greengram

CA-based rice-wheat-greengram system improved farmer's income

Name of farmer : Neeraj Prasad Gontia

Address: Tindni, Panagar, Jabalpur

Mobile Number: 8720057050

Age: 30 years

Education: 6th

Size of land holding (in acre): 5

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	5	13	19110	8650
Field Crop 2	Wheat	5	14	22750	11630
Field Crop 3	Summer greengram	2	3	15675	6375
Total			**30**	**57535**	**26655**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	5	20	37360	30044	54	247
Field Crop 2	Wheat	5	19	37525	29969	36	158
Field Crop 3	Summer greengram	5	6.5	46774	39552	117	520
Total			**45.5**	**121659**	**99565**	**52**	**274**

Brief : The farmer used to get net annual income of ₹ 26655/acre from rice, wheat and summer greengram. He faced problems like lack of technical know-how on advanced weed management techniques, balanced use of fertilizer and conservation agriculture. With interventions like weed management and adoption of conservation agriculture, he is getting net annual income of ₹ 99565/acre. In addition, there is cost saving of ₹ 8786/acre in the production of rice, wheat and summer greengram.

Direct-seeded rice

Wheat under CA

Conservation Agriculture and weed management in rice-wheat system

Name of farmer : Sh. Prasant Patel

Address: Chaurai, Bargi, Jabalpur

Mobile Number: 9826979495

Age: 39 years

Education: 12th

Size of land holding (in acre): 22

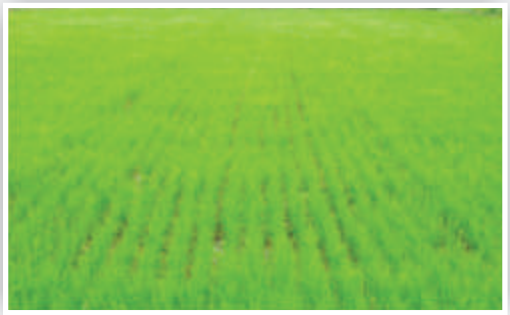
1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	10	15	22050	14624
Field Crop 2	Wheat	10	14	22750	16664
Field Crop 3	Summer greengram	2	4	20900	13280
Total			**33**	**65700**	**44568**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	16	18	33624	25258	20	73
Field Crop 2	Wheat	22	18	35550	26594	29	60
Field Crop 3	greengram	5	6	43176	34994	50	164
Total			**42**	**112350**	**86846**	**27**	**95**

Brief : The farmer used to get net annual income of ₹ 44568/acre from rice, wheat and greengram. He faced problems like lack of technical know-how on spraying techniques, advanced herbicides for weed management and high cost of cultivation. With interventions like improved weed management in all crops and sowing of crops with happy seed drill machine, he is getting net annual income of ₹ 86846/acre. In addition, there is cost saving of ₹ 4371/acre in the production of rice, wheat and greengram.



Direct-seeded rice

Wheat under conservation agriculture

Conservation Agriculture and weed management in rice-wheat-greengram system

Name of farmer : Sh. Jagdish Pradhan

Address: Nagason, Rewa, Bargi, Jabalpur

Mobile Number: 7489191594

Age: 60 years

Education: 5th

Size of land holding (in acre): 1.5

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	1	8	11760	2402
Field Crop 2	Wheat	1	8	13000	5622
Field Crop 3	Greengram	1	3	15675	7275
Total			**19**	**40435**	**15299**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	1.5	15	28020	21054	88	777
Field Crop 2	Wheat	1.5	14	27650	19394	75	245
Field Crop 3	Greengram	1.5	6	43176	35694	100	391
Total			**35**	**98846**	**76142**	**84**	**398**

Brief : The farmer used to get net annual income of ₹ 15299/acre from rice, wheat and greengram. He faced problems like high weed infestation, lack of knowledge on proper use of herbicides and balanced use of fertilizer. With interventions like use of improved weed management technologies and raising of crops under conservation agriculture techniques in place of conventional tillage, he is getting net annual income of ₹ 76142/acre. In addition, there is cost saving of ₹ 4433/acre in the production of rice, wheat and greengram.

Direct-seeded rice

Wheat

Intensification of rice-wheat system with summer greengram

Name of farmer : Sh. Dhaniram Netam

Address: Saliwada Tuniya, Bargi, Jabalpur

Mobile Number: 9669174858

Age: 35 years

Education: 9th

Size of land holding (in acre): 8

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	4	10	14700	4642
Field Crop 2	Wheat	4	10	16250	6132
Total			**20**	**30950**	**10774**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	4	15	28020	19654	50	323
Field Crop 2	Wheat	4	16	31600	22644	60	269
Field Crop 3	Greengram	3	5	35980	27798	100	100
Total			**36**	**95600**	**70096**	**80**	**551**

Brief : The farmer used to get net annual income of ₹ 10774/acre from rice and wheat. He faced problems like limited irrigation facility, lack of technical knowledge on proper use of herbicide for weed management and high cost of cultivation. With interventions like inclusion of greengram as third crop and improved weed management along with raising of crops under conservation agriculture technique, he is getting net annual income of ₹ 70096/acre. In addition, there is cost saving of ₹ 3854/acre in the production of rice and wheat.

Wheat

Summer greengram

Inclusion of summer grengram in rice-wheat system for higher income

Name of farmer : Sh. Shekh Sarif

Address: Sahajpuri, Bargi, Jabalpur

Mobile Number: 9753928845

Age: 40 years

Education: 8th

Size of land holding (in acre): 9

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	4	10	14700	6062
Field Crop 2	Wheat	6	12	19500	11982
Total			**22**	**34200**	**18044**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	5	15	28020	19654	50	224
Field Crop 2	Wheat	8	15	29625	20669	25	73
Field Crop 3	Greengram	2	5	35980	27798	100	100
Total			**36**	**93625**	**68121**	**59**	**278**

Brief : The farmer used to get net annual income of ₹ 18044/acre from rice and wheat. He faced problems like lack of technical know-how on weed management and high cost of cultivation. With interventions like inclusion of greengram as third crop, improved weed management and raising of crops under conservation agriculture technique, he is getting net annual income of ₹ 68121/acre. In addition, there is cost saving of ₹ 3266/acre in the production of rice and wheat.

Direct-Seeded rice

Wheat

Improved weed management in CA-based rice-wheat-greengram system

Name of farmer : Sh. Krapal Gond

Address: Sahaspuri (Mankedi), Bargi, Jabalpur

Mobile Number: 8819913067

Age: 61 years

Education: 5th

Size of land holding (in acre): 3

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	2	10	14700	4834
Field Crop 2	Wheat	2	12	19500	10382
Total			**22**	**34200**	**15216**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	2	17	31756	23390	70	384
Field Crop 2	Wheat	2	15	29625	20669	25	99
Field Crop 3	Greengram	2	5	35980	27798	100	100
Total			**37**	**97361**	**71857**	**68**	**372**

Brief : The farmer used to get annual income of ₹ 15216/acre from rice and wheat. He faced problems like lack of technical knowledge on use of herbicides, balanced use of fertilizer/seed and high cost of cultivation. With interventions like addition of greengram as third crop, improved weed management and sowing of crops with happy seed drill machine, he is getting net annual income of ₹ 71857/acre. In addition, there is cost saving of ₹ 3162/acre in the production of rice and wheat.

Direct-seeded rice

Greengram

Diversification of rice-wheat system for higher yield & income

Name of farmer : Sh. Ram Kumar Patel

Address: Sahajpuri (Harduli), Bargi, Jabalpur

Mobile Number: 7804832911

Age: 65 years

Education: 5th

Size of land holding (in acre): 1.5

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	1.5	10	14700	5522
Field Crop 2	Wheat	1.5	12	19500	10242
Total			**22**	**34200**	**15764**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	1.5	15	28020	19654	50	256
Field Crop 2	Wheat	1.5	15	29625	20669	25	102
Field Crop 3	Greengram	1.0	5	35980	27798	100	100
Total			**35**	**93625**	**68121**	**59**	**332**

Brief : The farmer used to get net annual income of ₹ 15764/acre from rice and wheat. He faced problems like lack of technical know-how on use of herbicide and high cost of cultivation. With interventions like introduction of greengram as third crop, proper weed management and sowing of crops with happy seed drill machine without tillage operations, he is getting net annual income of ₹ 68121/acre. In addition, there is cost saving of ₹ 3114/acre in the production of rice and wheat.

Sowing of wheat through Happy seeder

Wheat

Internsification of rice-wheat system with summer greengram

Name of farmer : Sh. Devidin

Address: Maangoo Simaria, Gosalpur, Jabalpur

Mobile Number: -

Age: 52 years

Education: Matriculation

Size of land holding (in acre): 16

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	16	13	19110	7774
Field Crop 2	Wheat	16	15	24375	12879
Total			**28**	**43485**	**20653**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	16	19	35492	28076	46	261
Field Crop 2	Wheat	16	18	35550	27994	20	117
Field Crop 3	Summer greengram	5	6.5	46774	39092	100	100
Total			**43.5**	**117816**	**95162**	**55**	**361**

Brief : The farmer used to get net annual income of ₹ 20653/acre from rice and wheat. He faced problems like high weed infestation, lack of technical knowledge on balance use of fertilizer and improved weed management. With interventions like addition of greengram as third crop, weed management with advanced herbicide and use of happy seed drill for sowing, he is getting net annual income of ₹ 95162/acre. In addition, there is cost saving of ₹ 7860/acre in the production of rice and wheat.

Rice

Wheat

Improved weed management and CA system for higher yield & income

Name of farmer : Sh. Kamlesh Rajak

Address: Maungoo Simariya, Gosalpur, Jabalpur

Age: 52 years

Education: Matriculation

Size of land holding (in acre): 6

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	6	14	20580	9044
Field Crop 2	Wheat	6	13	21125	10229
Total			**27**	**41705**	**19273**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	6	20	37360	30030	42.9	232
Field Crop 2	Wheat	6	18	35550	27790	38.5	172
Field Crop 3	Summer greengram	6	6	43176	35236	100	100
Total			**44**	**116086**	**93056**	**63.0**	**383**

Brief : The farmer used to get net annual income of ₹ 19273/acre from rice and wheat. He faced problems like lack of technical know-how on proper weed management and advanced profitable cultivation techniques. With interventions like proper use of fertilizer/seed, use of Happy seed drill for sowing and improved weed management, he is getting net annual income of ₹ 93056/acre. In addition, there is cost saving of ₹ 7342/acre in the production of rice and wheat.

Direct-seeded rice

Summer greengram

Rice-based cropping system

CA-based rice-chickpea system improved farmer's income

Name of farmer : Sh. Manoj Nath

Address: Rewa, Bargi, Jabalpur

Mobile Number: 6261418446

Age: 35 years

Education: 9th

Size of land holding (in acre): 8

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	2	10	14700	5122
Field Crop 2	Chickpea	2	8	32000	22842
Total			**18**	**46700**	**27964**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	2	15	28020	19654	50	284
Field Crop 2	Chickpea	2	10	51000	44090	25	93
Total			**25**	**79020**	**63744**	**39**	**128**

Brief : The farmer used to get annual income of ₹ 27964/acre from rice and chickpea. He faced problems like high weed infestation, limited irrigation facility and lack of technical knowledge on use of herbicide. With interventions like improved weed management and balanced use of fertilizer/seed, he is getting annual income of ₹ 63744/acre. In addition, there is cost saving of ₹ 3461/acre in the production of rice and chickpea due to cost saving in weed management through herbicide in place of manual weeding.

Direct-seeded rice

Chickpea

Direct-seeded rice improved productivity and income

Name of farmer : Sh. Satwinder Singh

Address: Village Naushehra Nalbandan, Distt Pathankot

Mobile Number: 9855141794

Age: 48 years

Education: Senior Secondary

Size of land holding (in acre): 20 acre

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop	Puddled transplanted rice	20	26	46800	34800

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop	Direct-seeded rice (DSR)	10	27	54000	44000	4	26

Brief : The farmer used to get annual income of ₹ 34800/acre from transplanted rice. He faced problems like unavailability of labour, water for transplanting and weed infestation in fields. With replacement of transplanted rice with direct-seeded rice and pre-emergence application of pendimethalin for weed management, he is getting annual income of ₹ 44000/acre. In addition, there is cost saving of ₹ 3000/acre in rice production.

DSR with pre-emergence spray of pendimethalin

DSR crop

Source: AICRP-WM Centre, PAU, Ludhiana

Diversification with Boro rice improves farmer's income

Name of farmer : Sh. Bogai Bordoloi

Address: Sidhabari Vil., P.O. Noduagaon, PS, Dist.: Morigaon

Mobile Number: 8134955903

Age: 45 years

Education: Class IX

Size of land holding (in acre): 1.83

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	*Kharif* rice	1.00	12.1	15911	5587
Field Crop 2	Jute (Fibre crop)	0.17	8.1	18623	6478
Total			**20.2**	**34534**	**12065**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	*Kharif* rice	1.65	14.2	22672	9717	17.4	73.9
Field Crop 2	Boro rice	0.33	16.2	25911	11741	100	100
Field Crop 3	Jute (Fibre crop)	0.33	9.7	31093	14899	19.8	130
Total			**40**	**79676**	**36357**	**98.5**	**201**

Brief : The farmer used to get net annual income of ₹ 12065/acre from rice, jute etc. He faced problems like irrigation, electricity, severe infestation of weeds etc. With interventions like area expansion and inclusion of boro (summer) rice with the help of shallow tube well, weed management implements, FLD, training etc., he is getting net annual income of ₹ 36357/acre.

Discussion with farmer

Bumper Jute crop

Source: AICRP-WM Centre, AAU, Jorhat

Boro rice increased farmer's income

Name of farmer : Sh. Pramod Dewri

Address: Sidhabari Vil., P.O. Noduagaon, PS, Dist.: Morigaon

Mobile Number: 8099336918

Age: 55 years

Education: Middle

Size of land holding (in acre): 5

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop	*Kharif* rice	1.32	9.7	12729	2405

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	*Kharif* rice	2.65	13.0	20729	7772	34	223
Field Crop 2	*Boro* rice	1.65	17.0	27207	13036	100	100
Total			**30.0**	**47936**	**20808**	**209**	**765**

Brief : The farmer used to get annual income of ₹ 2405/acre from kharif rice etc. He faced problems like irrigation, electricity, weed infestation etc. With interventions like area expansion and inclusion of boro (summer) rice with the help of shallow tube well, improved weed management practices, FLD, training etc., he is getting annual income of ₹ 20808/acre now.

A Hands-on training on weed management

Rice field of farmers

Source: AICRP-WM Centre, AAU, Jorhat

Improved weed management for higher rice productivity

Name of farmer : Sh. Jogeswar Bordoloi

Address: Sidhabari vil., P.O. Noduagaon, PS, Dist.: Morigaon

Mobile Number: 7896840259

Age: 46 years

Education: Class IX

Size of land holding (in acre): 5.5 acre

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop	*Kharif* rice	4.96	8.5	11138	814

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	*Kharif* rice	4.96	13.8	22024	9069	62.4	1014
Field Crop 2	*Boro* rice	0.83	18.2	29150	14980	100	100
Total		**5.79**	**32.0**	**51174**	**24049**	**276.5**	**2854**

Brief : The farmer used to get annual income of ₹ 814/acre from only Kharif rice. He faced problems like lack of irrigation facility, electricity, high weed infestation etc. With interventions like inclusion of boro (summer) rice with the help of shallow tube well, weed management implements, FLD, training etc., he is getting annual income of ₹ 24049/acre.

Implement distribution to the farmers

Farmer in his rice field

Source: AICRP-WM Centre, AAU, Jorhat

Boro rice for higher productivity and income

Name of farmer : Sh. Rekh Ram Bordoloi

Address: Sidhabari vil., P.O. Noduagaon, PS, Dist.: Morigaon

Mobile Number: 9395129709

Age: 62 years

Education: Class IV

Size of land holding (in acre): 3.96 acre

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	*Kharif* rice	2.65	10.5	13789	3466
Field Crop 2	Jute (Fibre Crop)	0.33	8.5	19555	7409
Total			**19.0**	**33344**	**10875**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	*Kharif* rice	5.29	13.0	20729	7773	23.8	124
Field Crop 2	*Boro* rice	1.32	16.2	25911	11741	100	100
Field Crop 3	Jute (Fibre Crop)	0.83	10.1	32389	16194	18.8	119
Total			**39.3**	**79029**	**35708**	**107**	**228**

Brief : The farmer used to get annual income of ₹ 10875/acre from rice and jute crop. He faced problems like lack of irrigation facility, electricity, severe weed infestation etc. With interventions like area expansion and inclusion of Boro (summer) rice with the help of shallow tube well, weed management implements, FLD, training etc., he is getting annual income of ₹ 35708/acre.

Farmer in his Jute field

Discussion with farmers at Sidhabari

Source: AICRP-WM Centre, AAU, Jorhat

Boro rice for higher productivity and income

Name of farmer : Sh. Moneswar Bordoloi

Address: Sidhabari vil., P.O. Noduagaon, PS, Dist.: Morigaon

Mobile Number: 8135861531

Age: 65 years

Education: Class IV

Size of land holding (in acre): 7.5 acre

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	*Kharif* rice	6.60	9.7	12729	2405
Field Crop 2	Jute (Fibre crop)	0.17	8.1	18623	6478
Total			**17.8**	**31352**	**8883**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	*Kharif* rice	6.60	12.1	19433	6478	24.7	169
Field Crop 2	*Boro* rice	1.65	16.2	25911	11741	-	-
Field Crop 3	Jute (Fibre crop)	0.66	10.5	33684	17490	29.6	170
Total			**38.8**	**79028**	**35709**	**118**	**302**

Brief : The farmer used to get annual income of ₹ 8883/acre from rice and jute crop. He faced problems like lack of irrigation facility, electricity, weed infestation on the field etc. With interventions like area expansion and inclusion of boro (summer) rice with the help of shallow tube well, weed management implements, FLD, training etc., he is getting annual income of ₹ 35709/acre.

Implements and training given to farmer

Weed management in farmers' field

Source: AICRP-WM Centre, AAU, Jorhat

Improved weed management in rice increased productivity and farmer's income

Name of farmer : Sh. Keshavarajan KD

Address: Kodapully (House), Alappad (P.O.), Thrissur, Kerala

Mobile Number: 9447401725

Age: 60 years

Education: Diploma

Size of land holding (in acre): 33

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop	Rice	33	27.9	62121	46970

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop	Rice	33	33.3	92727	72727	19.4	54.8

Brief : The farmer used to get annual income of ₹ 46970/acre from rice. He faced problem of high infestation of weeds like Leptochloa and Echinochloa and non availability of labour for hand weeding. With interventions on weed control through herbicides, he is getting annual income of ₹ 72727/acre and there is a cost saving to the tune of ₹ 6000/acre.

Rice

Scientist visited farmers field

Source: AICRP-WM Centre, KAU, Thrissur

Broad-spectrum weed control in rice improved farmer's income

Name of farmer : Sh. T M Madhavan (Kuttan)

Address: Thannikkal (House), East Vellanikkara, Mangode Thrissur, Kerala

Mobile Number: 9562212742

Age: 69 years

Education: SSLC

Size of land holding (in acre): 1.75

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop	Rice	1.75	17.1	37714	17714

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	1.75	20	56000	26171	16	48

Brief : The farmer used to get annual income of ₹ 17714/acre from rice. He faced problems like high cost and non availability of labour and lack of knowledge about correct choice and dosage of herbicide. With intervention on use of broad spectrum herbicides like bispyribac sodium, he is now getting annual income of ₹ 26171/acre.

Rice

Demonstration at farmer's field

Source: AICRP-WM Centre, KAU, Thrissur

Broad-spectrum herbicides for weed management in rice

Name of farmer : Oliver M J

Address: Muriyattil (House), Ayyapankav (P.O), Thrissur, Kerala

Mobile Number: 9072804363

Age: 57 years

Education: SSLC

Size of land holding (in acre): 4

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop	Rice	4	17.5	38500	21250

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop	Rice	4	20.3	56700	26700	16	26

Brief : The farmer used to get annual income of ₹ 21250/acre from rice. He faced problems like severe weed competition and non-availability of labour for hand weeding. With intervention on timely use of broad-spectrum herbicides, he is getting annual income of ₹ 26700/acre.

Excellent crop of rice at farmer's field

Source: AICRP-WM Centre, KAU, Thrissur

Weed managment in rice for higher yield and income

Name of farmer : Sh. Ramesh R

Address: Punnamkulam (House), Kattussery, Alathur, Palakkad, Kerala

Mobile Number: 9447922262

Age: 41 years

Education: Diploma

Size of land holding (in acre): 3

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop	Rice	3	20	46000	32667

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop	Rice	3	22.5	63000	39667	13	21

Brief : The farmer used to get annual income of ₹ 32667/acre from rice. He faced problems like un-availability of timely labour and lack of knowledge on selection of herbicide for Leptochloa control. With interventions like use of stale seed bed and post-emergent herbicides fenoxaprop or cyhalofop, he is getting annual income of ₹ 39667/acre. In addition, there is cost saving of ₹ 4000/acre for weeding in the production of rice.

A view of demonstration site

Rice

Source: AICRP-WM Centre, KAU, Thrissur

Management of grassy weeds in rice improved farmer income

Name of farmer : Sh. Gouthaman K D

Address: Kizhakkambram (House), Kattussery, Alathur , Palakkad

Mobile Number: 9745644213

Age: 57 years

Education: Pre degree

Size of land holding (in acre): 4 acre

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop	Rice	4	20	46500	31500

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop	Rice	4	21	58500	38500	5	22

Brief : The farmer used to get annual income of ₹ 31500/acre from rice cultivation. He faced problems like high weed infestation, especially graminaceous flora. With interventions on right choice of herbicides, he is getting annual income of ₹ 38500/acre. In addition, there is cost saving of ₹ 10000/acre in weed control compared to hand weeding.

Rice

Farmers-scientist Interaction at demonstration site

Source: AICRP-WM Centre, KAU, Thrissur

Herbicidal weed control in rice improved farmers' income

Name of farmer : Sh. Balakrishnan E R

Address: Edathura (H), Ayyapankav (P.O), Mulayam, Thrissur

Mobile Number: 9387804363

Age: 65 years

Education: Diploma

Size of land holding (in acre): 1.5

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop	Rice	1.5	15	33000	18000

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop	Rice	1.5	20	54000	31000	33	72

Brief : The farmer used to get annual income of ₹ 18,000/acre from rice. He faced weed problems and labour scarcity. With interventions like use of advance herbicides for the control of weeds, he is getting annual income of ₹ 31,000/acre.

Rice

Field demonstration on rice

Source: AICRP-WM Centre, KAU, Thrissur

Higher yield and income with herbicidal weed control

Name of farmer : Sh. Sunil Kumar Tudu

Address: Village- Srikrishnapur, Habra-II block, P.S.- Haringhata, Dist.- Nadia, West Bengal

Mobile Number: 9088226347

Age: 28 years

Education: Graduate

Size of land holding (in acre): 1

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	1	15.2	19500	9600
Field Crop 2	Mustard	1	3.7	19950	12790
Field Crop 3	Jute fibre	1	9.6	99830	55920
Total			**28.5**	**139280**	**78310**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	1	19.8	29166	14358	30.3	49.6
Field Crop 2	Mustard	1	4.5	23705	15197	20.7	18.8
Field Crop 3	Jute fibre	1	11.6	118862	66578	21.0	19.1
Total			**35.9**	**171733**	**96133**	**25.9**	**22.8**

Brief : The farmer used to get net annual income of ₹ 78310/acre from rice, mustard, jute etc. He faced problems like weed problem, higher cost of cultivation, low market price etc. With interventions like use of newer molecule of herbicide etc., he is getting annual income of ₹ 96133/ acre.

Jute fibre crop with herbicide use

Intervention of herbicide in rice crop

Source: AICRP-WM Centre, BCKV, Kalyani

Effective weed control in rice-lentil system increased yield and income

Name of farmer : Sh. Chandan Baskey

Address: Village- Panchkahania, Haringhata block,
P.S.- Haringhata, Dist.- Nadia, West Bengal

Mobile Number: 8509531061

Age: 61 years

Education: Primary

Size of land holding (in acre): 0.6

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	0.6	12.67	16333	7917
Field Crop 2	Lentil	0.6	3.16	17167	10833
Total			**15.83**	**33500**	**18750**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	0.6	16.3	22833	12167	29.0	39.8
Field Crop 2	Lentil	0.6	3.9	20641	13000	21.6	20.2
Total			**20.2**	**43475**	**25167**	**27.5**	**34.2**

Brief : The farmer used to get annual income of ₹ 18750/acre from rice, lentil etc. He faced problems like high weed infestation, high labour cost etc. With interventions like use of herbicide for effective weed control etc., he is getting annual income of ₹ 25167/acre.

Threshing of rice crop

Lentil with chemical weed management

Source: AICRP-WM Centre, BCKV, Kalyani

Improved weed management through herbicides increased farmer's income

Name of farmer : Sh. Kuddush Sahaji

Address: Village- Panchkahania, Haringhata block, P.S.- Haringhata, Dist.- Nadia, West Bengal

Mobile Number: 9732265223

Age: 61 years

Education: Class II

Size of land holding (in acre): 0.5

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	0.5	15.2	19800	9500
Field Crop 2	Mustard	0.5	3.76	20680	13040
Total			**18.96**	**40480**	**22540**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	0.5	19.6	27000	14400	28.95	51.58
Field Crop 2	Mustard	0.5	4.54	24970	15320	20.74	17.48
Total			**24.1**	**51970**	**29720**	**27.3**	**31.9**

Brief : The farmer used to get net annual income of ₹ 22540/acre from rice, mustard etc. He faced problems like high weed infestation etc. With interventions like improved weed management through herbicide etc., he is now getting net annual income of ₹ 29720/acre.

Rice

Mustard

Source: AICRP-WM Centre, BCKV, Kalyani

Improved weed management through herbicides increased farmer's income

Name of farmer : Sh. Bhagban Sahu

Address: S/o Mahendra Sahu, Bhokila Pada, Bhapyur, Nayagarh, Odisha

Mobile Number: 7326817369

Age: 40 years

Education: 5th

Size of land holding (in acre): 03

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	2	25	14000	8000
Field Crop 2	Greengram	1	2	8000	6500
Total			**27**	**22000**	**14500**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	2	40	21000	15000	60	87.5
Field Crop 2	Greengram	1	4	18000	15000	100	131
Total			**44**	**39000**	**30000**	**63**	**107**

Brief : The farmer used to get net annual income of ₹ 14500/acre from rice and greengram cultivation etc. He faced problems like heavy weed infestation, poor crop yield etc. With interventions like improved weed management through herbicide etc., he is getting net annual income of ₹ 30000/acre. In addition, there is cost saving of ₹ 6000/acre in the production of rice and greengram due to labour savings.

Rice

Imazethapyr of 75 g/ha

Source: AICRP-WM Centre: OUAT, Bhubaneswar

Improved weed management in rice and sugarcane increased income

Name of farmer : Sh. Gobind Nayak

Address: S/O Jambeswar Nayak, Bhapur, Nayagarh

Mobile Number: 9348961944

Age: 45 years

Education: 7th

Size of land holding (in acre): 5

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	3.0	15	17333	6667
Field Crop 2	Sugarcane	2.0	30	36000	24000
Total			**45**	**53333**	**30667**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice blackgram (Paira cropping)	3 1.5	20 2.3	22667 8000	10000 6000	33.3 100	140
Field Crop 2	Sugarcane	2.0	38	45000	32500	26.7	35.4
Total			**60.3**	**75667**	**48500**	**34.0**	**58.1**

Brief : The farmer used to get annual income of ₹ 30667/acre from rice and sugarcane. He faced problems like weed menace, pest problems etc. With interventions like improved weed management and timely phyto- sanitary measures etc., he is getting annual income of ₹ 48500/acre. In addition, there is cost saving of ₹ 4000/ as labour savings in the production of these crops.

Rice

Sugarcane

Source: AICRP-WM Centre: OUAT, Bhubaneswar

Improved weed management saves labour and increased farmer's income

Name of farmer : Sh. Shyam Sundar Nayak

Address: S/0 Chaitan Nayak, Ranipada, Khandapada, Nayagarh, Odisha

Mobile Number: 9853532468

Age: 58 years

Education: Class 2nd

Size of land holding (in acre): 6

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop	Rice	6	12	12667	7000

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	6	20.0	26333	13667	66.7	95.2
Field Crop 2	Black gram as paira cropping	3	2.3	10667	8000	100.0	100.0
Total			**22.3**	**37000**	**21667**	**86.1**	**209.5**

Brief : The farmer used to get annual income of ₹ 7000/acre from rice only. He faced problems like high infestation of weeds. With interventions like improved weed management, he is getting annual income of ₹ 21667/acre. In addition, there is cost saving of ₹ 4200/acre as labour savings in the production of rice.

Rice

Quizalofop-p-ethyl 50 g/ha

Source: AICRP-WM Centre: OUAT, Bhubaneswar

Increased productivity and income through improved weed management

Name of farmer : Sh. Manu Bhoi (SCSP Beneficiary)

Address: S/O Dama Bhoi, Kharipadia Sahi, Alipingala, Puri, Odisha

Mobile Number: 8260314747

Age: 63 years

Education: 3rd

Size of land holding (in acre): 4

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	3	18	19667	10667
Field Crop 2	Maize	1	20	46000	32000
Total			**38**	**65667**	**42667**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	3	20.7	28000	17667	14.8	65.6
Field Crop 2	Maize	1	28	69000	42000	40.0	31.3
Total			**48.7**	**97000**	**59667**	**28.1**	**39.8**

Brief : The farmer used to get annual income of ₹ 42667/acre from rice & maize etc. He faced problems like early stage weed infestation and poor yield etc. With interventions like proper weed management technology, he is getting annual income of ₹ 59667/acre. In addition, there is cost saving of ₹ 6000/acre as labour savings in the production of these crops.

One knapsack sprayer had been given for herbicide spray

Maize

Source: AICRP-WM Centre: OUAT, Bhubaneswar

Crop-diversification and weed management in rice-based system

Name of farmer : Sh. Hemanta Kumar Narendra

Address: S/O Banabihari, Sujanpur, Kothabada, Delang, Puri

Mobile Number: 9937247237

Age: 49 years

Education: Graduation (Arts.)

Size of land holding (in acre): 25

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	20	11.3	11250	6000
Field Crop 2	Maize	5	12.0	17600	12400
Total			**23.3**	**28850**	**18400**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	10	20	26000	17500	77.8	275
Field Crop 2	Black gram	5	2	6400	5000	100	-
Field Crop 3	Groundnut	5	4	20000	13000	-	-
Total			**26**	**52400**	**35500**	**11.8**	**92.9**

Brief : The farmer used to get annual income of ₹ 18400/acre from rice, maize etc. He faced problems like poor yield, severe weed problems etc. With interventions like proper weed management technology and additional crop etc., he is getting annual income of ₹ 35500/acre. In addition, there is cost saving of ₹1600/acre in the production of these crops .

Use of green manuring and line sowing with pretilachlor application 500 g/ha

Source: AICRP-WM Centre: OUAT, Bhubaneswar

Maize-wheat-greengram cropping system

Diversification and CA system improved farmer's income

Name of farmer : Rupesh Tengahiya

Address: Mankedi, Bargi, Jabalpur

Mobile Number: 6261890066

Age: 39 years

Education: M.Sc.

Size of land holding (in acre): 10

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	5	15	22050	13401
Field Crop 2	Wheat	10	14	22750	11270
Field Crop 3	Greengram	5	4	20900	12100
Total			**33**	**65700**	**36771**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Maize	3	22	40700	31717	-	-
Field Crop 2	Wheat	10	18	35550	26647	29	136
Field Crop 3	Greengram	5	6	43176	35694	50	195
Total			**46**	**119426**	**94058**	**39**	**156**

Brief : The farmer used to get net annual income of ₹ 36771/acre from rice, wheat and greengram crops. He faced problems like lack of knowledge on improved agriculture practices and conservation agriculture along with weed management. With diversification of rice-wheat system with maize-wheat, use of improved seed, improved weed management practices, adoption of conservation agriculture, balanced use of fertilizer, he is getting net annual income of ₹ 94058/acre. In addition, there is cost saving of ₹ 4700/acre in the production of maize, wheat and greengram.

Maize

Greengram

Intensification of maize-wheat system with legumes for increased yield and income

Name of farmer : Narmada Prasad Sahu

Address: Rewa, Bargi, Jabalpur

Mobile Number: 8839973445

Age: 44 years

Education: Higher Secondary

Size of land holding (in acre): 10

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Maize	4	12	16380	5972
Field Crop 2	Wheat	4	12	19500	12182
Total			**24**	**35880**	**18154**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Maize	10	25	46250	37617	108	530
Field Crop 2	Wheat	8	18	35550	26594	50	118
Field Crop 3	Greengram	2	7	50372	42190	100	100
Total			**50**	**132172**	**106401**	**108**	**486**

Brief : The farmer used to get net annual income of ₹ 18154/acre from maize and wheat. He faced problems like lack of knowledge on profitable cultivation techniques, improved weed management and proper dose of fertilizer along with high cost of cultivation. With interventions like inclusion of greengram as third crop in cropping sequence and improved weed management along with sowing of crops through happy seed drill, he is getting net annual income of ₹ 106401/acre. In addition, there is cost saving of ₹ 3139/acre in the production of maize, wheat and greengram.

Maize

Wheat

Crop diversification and zero tillage improved productivity and income

Name of farmer : Sh. Kailesh Prasad Lati

Address: Chillaghat, Saliwada, Bargi, Jabalpur

Mobile Number: 7509084801

Age: 42 years

Education: High School

Size of land holding (in acre): 2.5

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Arhar	1	5	25250	15100
Field Crop 2	Chickpea	1	7	28000	19400
Total			**12**	**53250**	**34500**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Maize	2	22	40700	31717	-	-
Field Crop 2	Wheat	2	15	29625	20669	-	-
Field Crop 3	Greengram	2	5	35980	27798	-	-
Total			**42**	**106305**	**80184**	**250**	**132**

Brief : The farmer used to get net annual income of ₹ 34500/acre from arhar and chickpea. He faced problems like lack of information on herbicide spraying, advanced molecule of herbicide and balanced use of fertilizer. With interventions like inclusion of greengram as third crop, improved weed management and raising of maize and wheat under conservation agriculture, he is getting net annual income of ₹ 80184/acre. In addition, there is cost saving of ₹ 3811/acre in the production of maize, wheat and greengram.

Maize under conservation agriculture

Wheat under conservation agriculture

Diversification of rice-wheat system for higher productivity and income

Name of farmer : Sh. Ramnarayan Patel

Address: Mankedi, Bargi, Jabalpur

Mobile Number: 8819061788

Age: 55 years

Education: B.A.

Size of land holding (in acre): 1.5

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	1	10	14700	5162
Field Crop 2	Wheat	1	12	19500	12622
Total			**22**	**34200**	**17784**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Maize	1	22	40700	32817	-	-
Field Crop 2	Wheat	1	18	35550	27194	50	116
Field Crop 3	Greengram	1	6	43176	35594	100	100
Total			**46**	**119426**	**95605**	**109**	**438**

Brief : The farmer used to get net annual income of ₹ 17784/acre from rice and wheat. He faced problems like high weed infestation, lack of technical information on availability of seed and balanced use of fertilizer. With diversification of conventional rice-wheat system with rice-wheat system under conservation agriculture, improved weed management technologies and inclusion of greengram as third crop, he is getting net annual income of ₹ 95605/acre. In addition, there is cost saving of ₹ 3770/acre in the production of wheat and maize.

Hybrid maize

Summer greengram

Maize-based cropping system

Diversification of rice-wheat system with legumes improved farmer's income

Name of farmer : Sh. Rajesh (Ram Sharan) Patel

Address: Harduli, Bargi, Jabalpur

Mobile Number: 8518981712

Age: 75 years

Education: 5th

Size of land holding (in acre): 1.5

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	1	10	14700	6122
Field Crop 2	Wheat	1	10	16250	8232
Total			**20**	**30950**	**14354**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Maize chickpea	1	20	37000	28717	-	-
Field Crop 2	Chickpea	1	10	71960	65050	-	-
Total			**30**	**108960**	**93767**	**50**	**553**

Brief : The farmer used to get net annual income of ₹14354/acre from rice and wheat. He faced problems like high weed infestation, lack of technical know-how on advanced weed management and balanced use of fertilizer and high cost of cultivation. With interventions like improved weed management and balanced use of seed/fertilizer, he is getting net annual income of ₹ 93767/acre. In addition, there is cost saving of ₹ 3404/acre in the production of maize and chickpea.

Chickpea

Maize

Diversification and weed management improved system productivity and income

Name of farmer : Sh. Gangaram Uikay

Address: Saliwada (Tuniya), Bargi, Jabalpur

Mobile Number: 9174847885

Age: 51 years

Education: 8th

Size of land holding (in acre): 4

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	3	10	14700	5562
Field Crop 2	Wheat	3	12	19500	11482
Total			**22**	**34200**	**17044**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Maize	2	20	37000	28717	-	-
Field Crop 2	Wheat	2	12	61200	54290	-	-
Field Crop 3	Greengram	2	5	35980	27798	100	100
Total			**37**	**134180**	**110805**	**68**	**550**

Brief : The farmer used to get net annual income of ₹17044/acre from rice and wheat. He faced problems like lack of knowledge on weed management, balance use of fertilizer and high cost of cultivation. With interventions like inclusion of greengram as third crop and weed management under conservation agriculture, he is getting net annual income of ₹110805/acre. In addition, there is cost saving of ₹3964/acre in the production of maize and chickpea.

Sowing of summer greengram through Happy seeder

Summer greengram

Improved weed management increased crop yield and income

Name of farmer : Sh. Umashankar Patel

Address: Charghat (Pipariya), Bargi , Jabalpur

Mobile Number: 9340097822

Age: 30 years

Education: 12th

Size of land holding (in acre): 10

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Wheat	5	12	19500	12282

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Wheat	5	18	35550	27294	50	122
Field Crop 2	Maize	5	20	37000	28717	100	100
Total			**38**	**72550**	**56011**	**217**	**356**

Brief : The farmer used to get net annual income of ₹ 12282/acre from wheat. He faced problems like limited irrigation facility, lack of technical know-how on improved weed management and balanced use of fertilizer. With interventions like maize cultivation in Kharif and improved weed management in wheat and maize, he is getting net annual income of ₹ 56011/acre. In addition, there is cost saving of ₹ 1538/acre in the production of wheat.

Maize

Wheat

Post-emergence herbicides improved maize productivity and farmer's income

Name of farmer : Sh. Sansar Singh

Address: Village Dhaki Saidan

Mobile Number: 7814011360

Age: 52 years

Education: Higher Secondary

Size of land holding (in acre): 22

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Maize	15	15	19500	11500

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop	Maize	15	18	30600	19600	20	70.4

Brief : The farmer used to get net annual income of ₹11500/acre from maize . He faced problems like appearance of mixed weed flora in the fields. With interventions like post-emergence application of tembotrione, he is getting effective weed control, higher yield and net annual income of ₹ 19600/acre.

Untreated crop

Tembotrione treated crop

Source: AICRP-WM Centre, PAU, Ludhiana

Improved weed management for higher yield & profit in maize based system

Name of farmer : Sh. Duda Ram Ji S/o Sgh. Jet Ram Ji Meghwal
Address: Village: Bhanwarasia, Post – Daroli; Tehsil: Vallabhnagar, Dist.: Udaipur (Raj)
Mobile Number: 7976309595
Age: 48 years
Education: 10th
Size of land holding (in acre): 1.5

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Maize	0.7	4.2	26460	11795
Field Crop 2	Greengram	0.4	2.4	36990	22390
Field Crop 3	Wheat	1.0	12.8	91400	67900
Total			**19.4**	**154850**	**102085**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Maize	0.7	5.2	32760	18095	23.81	53.4
Field Crop 2	Black gram	0.6	2.8	42030	27430	-	-
Field Crop 3	Wheat	1.0	14.8	105490	79990	15.6	17.8
Total			**22.8**	**180280**	**125515**	**17.5**	**22.9**

Brief : The farmer used to get annual income of ₹ 102085/acre from crops etc. He faced problems availability of quality seed in time & space and proper marketing facilities for crop produce. With interventions like improved seed, use of FYM and bio-fertilizers, weed control., he is getting annual gross income of ₹ 125515/acre.

Maize

Source: AICRP-WM Centre, MPUAT, Udaipur

Improved crop management increased farmer's yield and income

Name of farmer : Smt. Dali Bai W/o Jeetaram Meghwal
Address: Village Bhavradiya Post: Daroli Tehsil : Vallabhanagr Dist.: Udaipur (Raj)
Mobile Number: 7976309595
Age: 70 years
Education: 3rd
Size of land holding (in acre): 0.9

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Maize	0.5	3.94	24465	3610
Field Crop 2	Black gram	0.3	2.48	37890	18080
Field Crop 3	Wheat	1.0	14.4	104100	73600
Total			**20.82**	**166455**	**95290**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Maize	0.55	4.44	29400	11735	12.7	225
Field Crop 2	Greengram	0.3	2.8	42840	25240	-	-
Field Crop 3	Wheat	1.0	15.4	110890	80390	6.9	9.2
Total			**22.64**	**183130**	**117365**	**8.7**	**23.2**

Brief : The farmer used to get annual income of ₹ 95290/acre from crops etc. He faced problems availability of good quality seed and proper marketing facilities for crop produce. With interventions With interventions like improved seed, use of FYM and bio-fertilizers, weed control., She is getting annual gross income of ₹ 117365/acre.

Maize

Greengram

Source: AICRP-WM Centre, MPUAT, Udaipur

Improved weed management helped in improving farmer's income

Name of farmer : Sh. Gopa S/o Uda Meghwal

Address: Village Bhavradiya Post: Daroli Tehsil : Vallabhanagr Dist.: Udaipur (Raj)

Mobile Number: 8890229302

Age: 70 years

Education: 5th

Size of land holding (in acre): 0.9

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Maize	0.4	4.48	29040	5375
Field Crop 2	Soyabean	0.3	3	46170	23570
Field Crop 3	Wheat	0.6	14	102200	70200
Total			**21.48**	**177410**	**99145**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Maize	0.55	5.2	33270	15605	16.1	190
Field Crop 2	Soybean	0.3	3.44	51660	34060	14.7	44.5
Field Crop 3	Wheat	0.6	16.4	115130	84630	17.1	20.6
Total			**25.04**	**200060**	**134295**	**16.6**	**35.5**

Brief : The farmer used to get annual income of Rs. 99145/acre from crops etc. He faced problems like labour, cost of cultivation, availability of quality seed in time & space and proper marketing facilities for crop produce. With interventions like improved seed, weed control, he is now getting net annual income of Rs.134295/acre.

Soybean

Field View

Source: AICRP-WM Centre, MPUAT, Udaipur

Improved seed and weed management increased farmer's income

Name of farmer : Sh. Gulab singh S/o Lakshman Singh
Address: Village Basiwada Post: Rohimala Tehsil : Jhadole
Dist.: Udaipur (Raj)
Mobile Number: 9680220112
Age: 44 years
Education: 10th
Size of land holding (in acre): 2

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Maize	1.0	4.8	31515	7850
Field Crop 2	Blackgram	0.7	2.64	41580	18980
Field Crop 3	Wheat	1.0	14.8	105745	73600
Total			**22.24**	**178840**	**100575**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Maize	1.0	6	37290	19625	25.0	150
Field Crop 2	Greengram	0.7	3	46440	28840	13.6	52
Field Crop 3	Wheat	1.0	16	114760	84260	8.1	14
Total			**25**	**198490**	**132725**	**12.4**	**32**

Brief : The farmer used to get annual income of ₹ 100575/acre from crops etc. He faced problems like availability of quality seed, proper marketing facilities for crop produce. With interventions like improved seed, weed control, he is now getting net annual income of ₹132725/acre.

Maize

Wheat

Source: AICRP-WM Centre, MPUAT, Udaipur

Increased yield and income through weed management in maize based cropping system

Name of farmer : Nathi Bai W/o Deep Lal

Address: Village Bhavradiya Post: Daroli Tehsil: Vallabhanagr Dist.: Udaipur (Raj)

Mobile Number: 8890229302

Age: 35 years

Education: 5th

Size of land holding (in acre): 0.9

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Maize	0.4	4.16	25545	545
Field Crop 2	Black gram	0.3	3	44550	19950
Field Crop 3	Wheat	0.6	14	101180	68180
Total			**21.16**	**171275**	**88675**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Maize	1.0	4.54	28755	3755	9.1	589
Field Crop 2	Blackgram	0.7	3.4	51210	26610	13.3	33.4
Field Crop 3	Wheat	1.0	15.2	108920	75920	8.6	11.4
Total			**23.14**	**188885**	**106285**	**9.4**	**19.9**

Brief : The farmer used to get annual income of ₹ 88675/are from crops etc. He faced problems like availability of quality seed, proper marketing facilities for crop produce. With interventions like improved seed, weed control., She is getting annual gross income of ₹ 188885. He is now getting net annual income of ₹106285/acre.

Maize

Wheat

Source: AICRP-WM Centre, MPUAT, Udaipur

Horticulture-based System

Herbicide use in rice-based cropping system increased yield and profits

Name of farmer : Sh. Uday Krishna Sarkar

Address: Paschim Shimulia, Ranaghat-II block, P.S.- Gangnapur, Dist.- Nadia, West Bengal

Mobile Number: 9932329044

Age: 42 years

Education: Graduate

Size of land holding (in acre): 1

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	0.5	15.2	19800	9500
Field Crop 2	Mustard	0.5	3.76	20700	13040
Floriculture 1	Marigold	0.5	5.8	90000	64000
Total			**24.8**	**130500**	**86540**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	0.5	19.4	27000	14400	27.6	51.6
Field Crop 2	Mustard	0.5	4.54	25170	15320	20.7	17.5
Floriculture 1	Marigold	0.5	7.80	133920	95232	34.5	48.8
Total			**31.7**	**186090**	**124952**	**28.2**	**44.4**

Brief : The farmer used to get net annual income of ₹ 86540/acre from rice, mustard and marigold. He faced problems like weed problem, high cost of cultivation etc. With interventions like herbicide use for effective weed control etc., he is getting net annual income of ₹ 124952/acre.

Intervention of weed management in rice crop

Chemical weed control in mustard

Source: AICRP-WM Centre, BCKV, Kalyani

Improved weed management increased farmer's income

Name of farmer : Sh. Gofur Mandal

Address: Village- Panchkahania, Haringhata block,
P.S.- Haringhata, Dist.- Nadia, West Bengal

Mobile Number: 7001086337

Age: 43 years

Education: Class VIII pass

Size of land holding (in acre): 1

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	1	12.7	18900	10160
Field Crop 2	Cowpea	1	127.4	35620	24090
Total			**40.1**	**54520**	**34250**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	1	16.2	24300	14800	27.6	45.7
Field Crop 2	Cowpea	1	34.8	48720	34100	27.0	41.6
Total			**51.0**	**73020**	**48900**	**27.2**	**42.8**

Brief : The farmer used to get net annual income of ₹ 34250/acre from rice, cowpea, etc. He faced problems like high weed infestation in his field etc. With interventions like improved weed management etc., he is now getting annual income of ₹ 48900/acre.

Rice with improved weed management

Cowpea with improved weed management

Source: AICRP-WM Centre, BCKV, Kalyani

Improved weed management in rice-cabbage system

Name of farmer : Sh. Abbas Mandal

Address: Village- Panchkahania, Haringhata block,
P.S.- Haringhata, Dist.- Nadia, West Bengal

Mobile Number: 8653328323

Age: 45 years

Education: Class IX

Size of land holding (in acre): 1.5

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	1.5	12.80	19200	11867
Veg. Crop 1	Cabbage	1.0	151.6	80364	53038
Total			**164.4**	**99564**	**64905**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	1.5	16.8	25200	17533	31.3	47.8
Veg. Crop 1	Cabbage	1.0	177.8	97801	67981	17.3	28.2
Total			**194.6**	**123001**	**85514**	**18.4**	**31.8**

Brief : The farmer used to get net annual income of ₹ 64905/acre from rice, cabbage etc. He faced severe weed problem. With interventions like improved weed management, he is now getting net annual income of ₹ 85514/acre.

Rice

Cabbage

Source: AICRP-WM Centre, BCKV, Kalyani

Herbicidal weed control in rice-mustard system

Name of farmer : Sh. Muzam Mandal

Address: Village- Panchkahania, Haringhata block,
P.S.- Haringhata, Dist.- Nadia, West Bengal

Mobile Number: 7076372494

Age: 57 years

Education: Class IV

Size of land holding (in acre): 2

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	2	12.6	18900	12100
Field Crop 2	Mustard	1	3.62	19910	12410
Veg. Crop 1	Cabbage	1	148.3	78599	51197
Total			**164.52**	**117409**	**75707**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	2	16.8	25200	17650	33.3	45.9
Field Crop 2	Mustard	1	4.46	24530	15330	23.2	23.5
Veg. Crop 1	Cabbage	1	173.0	94952	64500	16.4	26.0
Total			**194**	**144682**	**97480**	**17.8**	**28.7**

Brief : The farmer used to get annual income of ₹ 75707/acre from rice, mustard, cabbage, etc. He faced problems of severe weed infestation in field. With interventions like herbicide application for weed control, he is now getting annual income of ₹ 97480/acre.

Mustard

Cabbage

Source: AICRP-WM Centre, BCKV, Kalyani

Direct seeded rice and weed management increased farmer's income

Name of farmer : Sh. Ashish Punia

Address: Village- Dhani Majra, Dist. Fatehabad, Haryana

Mobile Number: 7398977777

Age: 24 years

Education: Graduation

Size of land holding (in acre): 35

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice (Transplanted)	20	25	35000	25000
Field Crop 2	Wheat	20	22	35700	27500
Hort. Crop 1	Kinnow	2.5		25000	20000
Total				**95700**	**72500**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice (DSR)	8 (DSR) +12	24	43200	32500	-	30.0
Field Crop 2	Wheat	20	22	41800	34000	-	23.6
Hort. Crop 1	Kinnow	-	-	28000	28000	-	40.0
Total				**113000**	**94500**		**30.3**

Brief : The farmer used to get annual income of ₹ 72500/acre from rice, wheat, kinnnow. He faced problems like labour availability etc. With interventions like direct sowing of rice (direct-seeded rice), he is getting annual income of ₹ 94500/acre. In addition, there is cost saving of ₹ 2000/acre in the production of DSR.

Machine used for sowing of DSR as well as pre-emergence spray

Rice

Source: AICRP-WM Centre, CCSHAU, Hisar

Management of orobanche in mustard

Name of farmer : Sh. Sandeep Berwal

Address: Village- Dariyapur, Dist. Bhiwani Haryana

Mobile Number: -

Age: 39 years

Education: Graduation

Size of land holding (in acre): 26

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Cotton	6	8	30500	16700
Field Crop 2	Bajra + Clusterbean	15	-	13500	6700
Field Crop 3	Mustard	20	4	14800	9000
Total				**58800**	**32400**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Cotton	14	8	42800	25000	0	49.7
Field Crop 2	Bajra + Clusterbean	8	-	18750	10000	-	49.2
Field Crop 3	Mustard	22	8	32000	23000	100.0	156
Total				**93550**	**58000**		**79**

Brief : The farmer used to get net annual income of ₹ 32400/acre from cotton, bajra, mustard. He faced problems like Orobanche in mustard etc. With interventions like use of glyphosate 25 ml at 25-30 DAS and 50 ml at 50-55 DAS, he is getting annual income of ₹ 58000/acre.

Cotton

Mustard

Source: AICRP-WM Centre, CCSHAU, Hisar

Management of orobanche in mustard improved farmer's income

Name of farmer : Sh. Ramesh

Address: Village- Jainawas, Dist. Bhiwani Haryana

Mobile Number: 9813774697

Age: 51 years

Education: 10th

Size of land holding (in acre): 10

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Cotton	8		25000	15000
Field Crop 2	Mustard	8	4	14800	10000
Total				**39800**	**25000**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Cotton	8	-	31300	18000	-	20
Field Crop 2	Mustard	8	9	39400	30000	125	200
Total				**70700**	**48000**	**-**	**92**

Brief : The farmer used to get annual income of ₹ 25000/acre from cotton, bajra, mustard. He faced problems like *Orobanche* in mustard etc. With interventions like use of glyphosate 25 ml at 25-30 DAS and 50 ml at 50-55 DAS, he is getting annual income of ₹ 48000/acre.

Spray of glyphosate at 30 DAS

45 Days old crop

Source: AICRP-WM Centre, CCSHAU, Hisar

Crop-diversification and weed management in rice-based system

Name of farmer : Sh. Shiv Komra

Address: Turakhar

Mobile Number: 6263662011

Age: 45 years

Education: 12th

Size of land holding (in acre): 7

1) Before Intervention

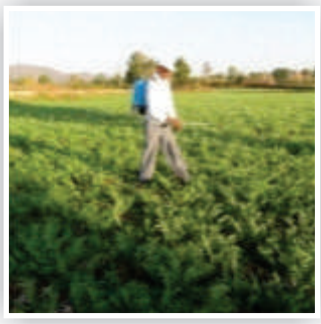
Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	5.00	15.3	22462	7462
Field Crop 2	Chickpea	1.95	5.7	22769	9709
Total			**21.0**	**45231**	**17171**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	5.00	15.9	29701	13601	3.9	82
Field Crop 2	Chickpea	1.95	5.9	29000	13950	3.5	44
Veg. Crop 1	Brinjal	0.34	10.3	104412	58824	100	100
Total			**32.1**	**163113**	**86374**	**52.9**	**403**

Brief : The farmer used to get net annual income of ₹ 17171/acre from rice and chickpea crops. He faced problems like unavailability of certified seed at time, labour, lack of awareness about improved production technology. With interventions like weed management technology for rice and through crop diversification, he is getting annual income of ₹ 86374/acre from rice, chickpea and brinjal.

Rice



Chickpea

Brinjal

Source: AICRP-WM Centre: IGKV, Raipur

Herbicidal weed control saved labour and increased farmer's income

Name of farmer : Sh. Santosh Ku. Swain
Address: S/O Dasarathi Swain, Bhokilapada, Bhapur, Nayagarh, Odisha
Mobile Number: 9348345336
Age: 35 years
Education: 8th
Size of land holding (in acre): 8

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	6.0	15.8	17667	8667
Veg. Crop 1	Brinjal	2.0	17.5	35000	22500
Total			**33.3**	**52667**	**31167**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice						
Field Crop 2	Blackgram (Paira)	6.0	20.0	26000	14000	26.3	119.2
Veg. Crop 1	Brinjal	3.0	2.2	7583	5000	100	
Veg. Crop 2	Tomato	2.0	29.0	44000	25500	65.7	13.3
Total			**51.2**	**77583**	**44500**	**53.5**	**42.8**

Brief : The farmer used to get annual income of ₹ 31167/acre from rice, vegetable etc. He faced problems like weed problems at early stages and poor marketing etc. With interventions like pre-emergence herbicide and proper fertilizer management etc., he is getting annual income of ₹ 44500/acre. In addition, there is cost saving of ₹ 2200/acre as manual labour savings in the production of these crops.

Brinjal

Tomato

Source: AICRP-WM Centre: OUAT, Bhubaneswar

Management of parasitic weed orobanche in Brinjal

Name of farmer : Sh. Madhaba Behera (SCSP Beneficiary)
Address: S/O Chandramani Behera, Alipingala, Nimapada, Puri, Odisha
Mobile Number: 8117876247
Age: 50 years
Education: 5th
Size of land holding (in acre): 8

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	5.0	12	12400	6800
Field Crop 2	Groundnut	2.0	3	10500	7500
Veg. Crop 1	Brinjal	1.0	25	37500	22000
Total			**40**	**60400**	**36300**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	4.0	20.0	26000	14000	66.7	106
Field Crop 2	Groundnut	3.0	3.3	14000	10333	11.1	37.8
Veg. Crop 1	Brinjal	1.0	42.0	75000	38000	68.0	72.7
Total			**65.3**	**115000**	**62333**	**63.3**	**71.7**

Brief : The farmer used to get annual income of ₹ 36300/acre from rice, groundnut and brinjal etc. He faced problems like weed problems and parasitic weed (*Orobanche*) etc. With interventions like improved weed managment, he is getting annual income of ₹ 62333/acre. In addition, there is cost saving of ₹ 3500/acre in the production of these crops.

Distribution of knapsack sprayer for herbicide spray

Rice

Source: AICRP-WM Centre: OUAT, Bhubaneswar

Mechanical weeding in maize for higher yield and income

Name of farmer : Sh. Manoranjan Singh

Address: S/O Lt. Suklambar Singh, Berboi, Delang, Puri

Mobile Number: 9437280609

Age: 52 years

Education: Graduation (Arts.)

Size of land holding (in acre): 15

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre) /Number	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	7.5	18.0	18933	11200
Field Crop 2	Maize	5.0	15.0	22500	14400
Hort. Crop 1	Coconut	2.5	200 Nuts	22000	18400
Total				**63433.3**	**44000.0**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)/No.	Production (q/acre)/No.	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	7.5	22.4	29660	16533	24.4	47.6
Field Crop 2	Maize	5.0	17.4	27000	14800	16.0	2.8
Hort. Crop 1	Coconut	2.5	2720 Nuts	54400	38000	23.6	107
Veg. Crop 1	Ginger	1.5	13.3	66667	42667	100	338
Total			**-**	**177727**	**112000**	**-**	**155**

Brief : The farmer used to get annual income of ₹ 44000/acre from rice, maize and coconut etc. He faced problems like poor crop yield, severe weed problems, poor copra size, etc. With interventions like proper weed management technology and intercropping etc., he is getting annual income of ₹ 112000/acre. In addition, there is cost saving of ₹ 2545/acre in the production of these crops .

Use of mechanical weeding in maize

Rice

Source: AICRP-WM Centre: OUAT, Bhubaneswar

Integrated weed management increased farmer's income

Name of farmer : Sh. P.Saminathan S/O Palanisamy
Address: No. 253 Karunkalthottam, Krishnapuram, Alagamalai, Tiruppur
Mobile Number: 9047923626
Age: 58 years
Education: 8th
Size of land holding (in acre): 15

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre) /Number	Production (q/acre)/No.	Gross Income (₹/acre)	Net Income (₹/acre)
Veg. Crop 1	Turmeric	2	27.5	178750	84250
Veg. Crop 2	Onion	4	58	145000	32500
Hort. Crop 1	Coconut plantations	4	9200 Nos	64900	38150
Total		**6**		**388650**	**154900**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)/No.	Production (q/acre)/No.	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Veg. Crop 1	Turmeric	3	24.3	189800	96200	-11.64	14.18
Veg. Crop 2	Onion small	6	63.0	157500	53667	8.62	65.13
Hort. Crop 1	Coconut	4	13200	92400	60400	43.48	58.32
Total		**13.00**		**439700**	**210267**		**35.7**

Brief : The farmer used to get annual income of ₹ 154900/acre from agriculture and other allied activities etc., He faced problems like weeds, pests etc., with interventions like integrated weed management in turmeric and onion; he is getting net annual income of ₹ 210267/acre. In addition, there is cost saving of ₹ 6923/acre in the production of the above crops.

Integrated weed management in turmeric

Integrated weed management in onion

Source: AICRP-WM Centre - Coimbatore

Integrated weed management for higher profit

Name of farmer : Sh. N. Thangaraj
Address: S/o Nachimuthugounder, No. 4/303,
Thonguttipalayam, Tiruppur, 641665
Mobile Number: 9003449911
Age: 67 years
Education: 8th
Size of land holding (in acre): 3.55

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Veg. Crop 1	Turmeric	2	27	175500	72000
Veg. Crop 2	Onion small	2	58	145000	20000
Total				**320500**	**92000**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Maize	1	25.0	35500	22500	-	-
Veg. Crop 1	Turmeric	2	16.0	211950	108450	28.0	50.6
Veg. Crop 2	Onion small	2	32.5	162500	37500	12.06	87.5
Total				**409950**	**168450**		**83**

Brief : The farmer used to get annual income of ₹ 92000/acre from turmeric and onion etc., He faced problems like high infestation of weeds, pests etc., with interventions like integrated weed management; he is getting net annual income of ₹ 168450/acre . In addition, there is cost saving of ₹ 11,000/acre in the production of the above crops.

Integrated weed management in Onion

Integrated weed management in Turmeric

Source: AICRP-WM Centre - Coimbatore

Integrated weed management improved farmer's income

Name of farmer : Sh. P. Palanisamy

Address: S/o Perumal, No.2/522C, Pethikuttai, Irumborai, Coimbatore-638459

Mobile Number: 9750133971

Age: 56 years

Education: Nil

Size of land holding (in acre): 2

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Groundnut	1	10	55000	7000
Veg. Crop 1	Onion small	1	60	136500	36500
Total			**70**	**191500**	**43500**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Groundnut	1	11	660000	18000	10.0	157
Veg. Crop 1	Onion small	1	72	180000	80000	20.0	119
Total			**83**	**840000**	**98000**	**18.6**	**125**

Brief : The farmer used to get annual income of ₹ 43500/acre from groundnut and onion crops. He faced problems like infestation of weeds, pests etc., with interventions like integrated weed management in crops; he is getting net annual income of ₹ 98000/acre. In addition, there is cost saving of ₹ 5500/acre in the production of the above crops.

Integrated weed management in groundnut

Integrated weed management in onion

Source: AICRP-WM Centre - Coimbatore

Integrated weed management in onion and turmeric improved farmer's income

Name of farmer : Sh. R.Palanisami

Address: S/o Rakkiyappan, No. 2/189, Kollikalipalaiyam post , Tiruppur-641665

Mobile Number: 9843091484

Age: 65 years

Education: Nil

Size of land holding (in acre): 4

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Veg. Crop 1	Onion small	3	57	150000	35000
Veg. Crop 2	Turmeric	1	27	175000	76500
Total			**84**	**325000**	**111500**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Veg. Crop 1	Onion small	3	60	150000	43333	5.3	23.8
Veg. Crop 2	Turmeric	1	32	256000	157000	18.5	105
Total			**92**	**406000**	**200333**	**9.5**	**79.7**

Brief : The farmer used to get annual income of ₹ 111500/acre from onion and turmeric. He faced problems like high infestation of weeds, pests etc., With interventions like integrated weed management, he is getting net annual income of ₹ 200333/acre. In addition, there is cost saving of ₹ 11500/acre in the production of the above crops.

Integrated weed management in Onion

Integrated weed management in Turmeric

Source: AICRP-WM Centre: Coimbatore

Animal-based production system

Herbicidal weed management in rice & wheat improved farmer's income

Name of farmer : Sh. Jageer Singh

Address: S/O Survan Singh Motiyapura Aabad nagar
Post - Kelakheda, Distt- U.S. Nagar Pin code- 263152

Mobile Number: 9012729461

Age: 58 years

Education: Illiterate

Size of land holding (in acre): 2

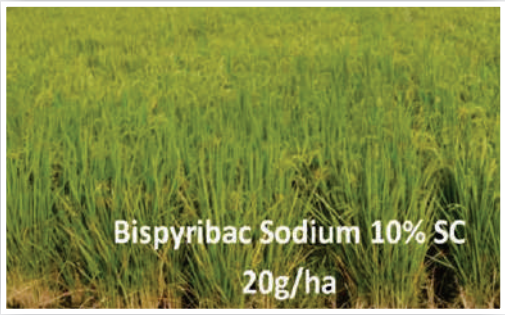
1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre) /Number	Production (q/acre/litre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	2	18.8	29140	21855
Field Crop 2	Wheat	2	15.2	24700	18525
Other enterprises	Milk Production (Buffalo)	1	1680	58800	29800
Total				**112640**	**70180**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)/No.	Production (q/acre/litre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	2	24.4	45579	25000	29.79	14.39
Field Crop 1	Wheat	2	21.6	41580	21000	42.11	13.36
Other enterprises	Milk Production (Buffalo)	1	2340	93600	46800	39.29	57.05
Total				**180759**	**92800**	**-**	**32.23**

Brief : The farmer used to get net annual income of ₹ 70180 /acre/number from rice, wheat and Buffalo. He faced inadequate irrigation facilities during crop period because the water in canal does not released on time and sometimes agricultural field get flooded due to more water in canal. With interventions like in rice bispyribac-sodium 10%SC 20g/ha and clodinafop -propargyl 15.3% + metsulfuron-methyl 1% WP 60+ 4g/ha in wheat, he is getting annual income of ₹ 92800. In addition, there is cost saving of ₹ 4820 in the production rice and wheat.



Demonstration on weed management in rice

Demonstration on weed management in wheat

Source: AICRP-WM Centre : GBPUAT, Pantnagar

Herbicidal weed management in rice & wheat improved farmer's income

Name of farmer : Sh. Sarbjeet Singh S/O Gurvaksh Singh

Address: Village-Durgapur no. 2 Post -Dineshpur
Tehshil- Gaddarpur, Distt- U.S. Nagar Pin code- 263152

Mobile Number: 9917225558

Age: 48 years

Education: 12th

Size of land holding (in acre): 7

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre) /Number	Production (q/acre/litre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	7	21	32860	24645
Field Crop 2	Wheat	7	17	27950	20962
Other enterprise	Milk Production (Buffalo)	1	2520	88200	44200
Total				**149010**	**89807**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre/litre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	7	26	47821	35866	23.8	45.5
Field Crop 2	Wheat	7	22	42350	31762	29.4	51.5
Other enterprise	Milk Production (Buffalo)	1	2940	147000	74000	16.7	67.4
Total				**237171**	**141628**	**-**	**57.4**

Brief : The farmer used to get net annual income of ₹ 89807/acre from rice, wheat and milk production. He told that cost of diesel has been increased by almost two times but rise in MSP has somewhat compensated the cost incurred during crop period. With interventions like bispyribac-sodium 10%SC 20g/ha in rice and clodinafop - propargyl 15.3% + metsulfuron-methyl 1% WP 60+ 4 g/ha in wheat, he is getting annual income of ₹ 141628/acre. In addition, there is cost saving of ₹16870 in the production of rice, wheat and milk production.

Demonstration on weed management in rice

Demonstration on weed management in wheat

Source: AICRP-WM Centre , GBPUAT, Pantnagar

Herbicidal weed management improved yield and income

Name of farmer : Sh. Satnam Singh

Address: S/O Jogendra Singh Village- Motiyapura Post-Kelakheda Distt- U.S. Nagar, Pin code- 263152

Mobile Number: 9917443836

Age: 48 years

Education: M.B.A.

Size of land holding (in acre): 7

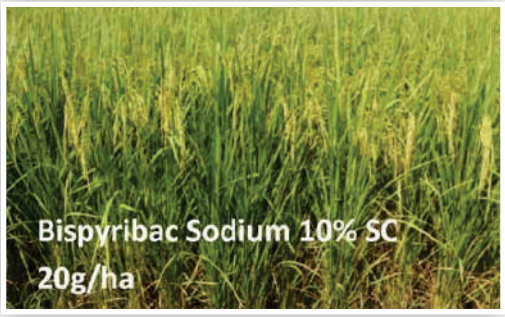
1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre) /Number	Production (q/acre/litre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	7	21	32240	24180
Field Crop 2	Wheat	7	18	28600	21450
Other enterprise	Milk Production (Cow)	2	4860	88200	60750
Total	-	-		**182340**	**106380**

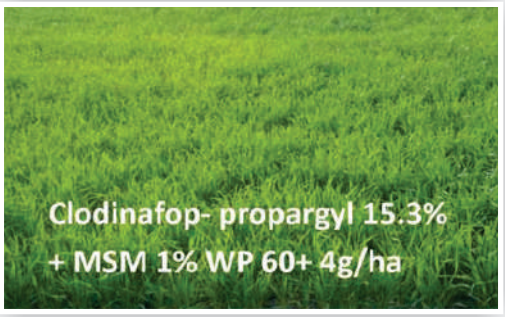
2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)/No.	Production (q/acre/litre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	7	24	44832	33624	14.3	39.1
Field Crop 2	Wheat	7	22	43120	32340	22.2	50.8
Other enterprise	Milk Production (Cow)	2	5040	201600	100800	3.7	65.9
Total				**289552**	**166764**	-	**56.8**

Brief : The farmer used to get net annual income of ₹ 106380/acre from per acre rice, wheat and milk production. The farmer has not satisfied with MSP/sale of the produce on cost incurred and market of Milk is not proper so he is not getting the real or fix costs of the milk during crop period/year. With interventions like bispyribac sodium 10%SC 20g/ha in rice and clodinafop -propargyl 15.3% + MSM 1% WP 60+ 4g/ha in wheat, he is getting annual income of ₹ 166764/acre from per acre rice, wheat and milk production .In addition, there is cost saving of ₹ 2410/acre in the production of rice and wheat.



Weed management in rice



Weed management in wheat

Source: AICRP-WM Centre , GBPUAT, Pantnagar

Weedy rice management improved rice yield and income

Name of farmer : Sh. Madan Lal Sharma

Address: Village Rattian , RS Pura block, Jammu, J&K

Mobile Number: 9419125297

Age: 60 years

Education: 10th

Size of land holding (in acre): 5

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre) /Number	Production (q/acre/number)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	4.5	12	30000	18000
Field Crop 2	Wheat	3.75	13.3	21333	12800
Other enterprise	Poultry	1 Unit (1000 bird)	15	105000	30000
Total				**156333**	**60800**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)/No.	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	4.75	12.6	33684	21053	5.26	17.0
Field Crop 2	Wheat	4.00	14.5	26100	14500	8.75	13.3
Other enterprise	Poultry	1 Unit (1200 bird)	16	110000	35000	6.66	16.7
Total				**169784**	**70553**	**7.10**	**16.0**

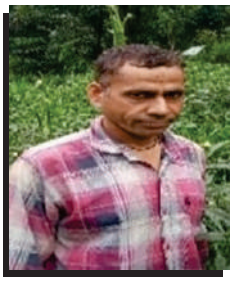
Brief : The farmer used to get annual income of ₹ 60800/acre from rice, wheat and poultry. He faced problems like weedy rice in transplanted rice. With new intervention for weedy rice management like stale seed-bed with glyphosate @ 1.5 kg/ha or stale seed-bed with paraquat @ 0.8 kg/ha at 15-20 days before transplanting, he is getting increased rice yield by 5.26% and 17.0% higher income from rice. He is now getting net annual income of ₹ 70553/acre.

Glyphosate @1.5 kg application on germinated weedy rice plant in stale seed bed at 15-20 days before transplanting

Effect of glyphosate @1.5 kg application on germinated weedy rice plant in stale seed bed

Source: AICRP-WM Centre: SKUAST-Jammu

Crop-diversification and dairy increased farmer's income



Name of farmer : Sh. Ramesh Chand

Address: Vill. Dhakrair Po Punner The. Palampur Distt. Kangra

Mobile Number: 9816516523

Age: 44 years

Education: Middle

Size of land holding (in acre): 1.25

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	0.5	10.0	14126	7804
Field Crop 2	Wheat	0.5	4.0	8600	5160
	Total		**14.0**	**22726**	**12964**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (Acre)/No.	Production (q/acre/litre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	0.438	20.5	35959	21575	105	176
Field Crop 2	Wheat	0.406	7.4	21429	12857	85	149
Veg. Crop 1	Chilli	0.0313	3.2	127796	89457	-	-
Veg. Crop 2	Okra	0.0313	31.9	63898	47923	-	-
Veg. Crop 3	Onion	0.0625	80.0	160000	112000	-	-
Veg. Crop 4	Garlic	0.0313	31.9	319489	239617	-	-
Other enterprises	Dairy	1	10	96000	58600	-	-
	Total		**185.0**	**824570**	**582029**	**1222**	**1089**

Brief : The farmer used to get annual income of ₹ 12964/acre of rice and wheat crops and labour. He faced problems like insects, diseases and unavailability of improved varieties of seed etc. With interventions like veterinary camp, training and seeds distributions etc., he is getting annual income of ₹ 582029/acre

Before intervention
(Farmer with Paddy crop)

After Intervention
(Farmer with chilli crop)

Source: AICRP-WM Centre: CSHPKV, Palampur

Improvement production technologies increased farmer's income

Name of farmer : Sh. Ramesh Kumar

Address: Vill. Dhakrair Po Punner Teh., Palampur Distt. Kangra

Mobile Number: 9816494391

Age: 60 years

Education: Middle

Size of land holding (in acre): 1.25

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre) /Number	Production (q/acre/litre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Maize	0.125	4.0	7904	4744
Field Crop 2	Rice	0.375	10.7	15067	9053
Field Crop 3	Wheat	0.5	4.0	8600	5160
Other enterprises-1	Dry Fodder	0.75	16.0	6400	4267
Other enterprises-2	Dairy	1	5.0	36000	26600
	Total		**39.7**	**73971**	**49824**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)/No.	Production (q/acre/litre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Maize	0.125	7.2	17400	10440	80.0	120.1
Field Crop 2	Rice	0.625	12.8	22400	13440	20.0	48.5
Field Crop 3	Wheat	0.75	5.3	13867	8320	33.3	61.2
Other enterprises-1	Dry Fodder	0.5	20.0	12000	9000	25.0	110.9
Other enterprises-2	Dairy	2	7.0	67200	40320	40.0	51.6
	Total		**52.3**	**132867**	**81520**	**31.9**	**63.6**

Brief : The farmer used to get annual income of ₹ 49824/acre from agriculture, dairy etc. He faced problems like high infestation of insect and diseases in the fields. With interventions like veterinary camp, training and seeds distributions etc., He is getting annual income of ₹ 81520/acre.

Farmer with maize crop

Farmer with rice and Kiwi Plants

Source: AICRP-WM Centre: CSHPKV, Palampur

Crop-diversification and weed management improved farmer's income

Name of farmer : Sh. Sunil Kumar

Address: Vill. Dhakrair Po Punner Teh. Palampur Distt. Kangra

Mobile Number: 7047227052

Age: 40 years

Education: +2

Size of land holding (in acre): 0.625

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre) /Number	Production (q/acre/litre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	0.25	8.0	11300	5060
Field Crop 2	Wheat	0.375	4.0	10267	5040
Other enterprises-1	Dry fodder	0.25	16.0	6400	4800
Other enterprises-2	Dairy	1	6.0	43200	26200
	Total		**34.0**	**71167**	**41100**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (Acre)/No.	Production (q/acre/litre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Maize	0.125	8.0	19200	12800	-	-
Field Crop 2	Rice	0.25	16.0	28000	16800	100.0	232
Field Crop 3	Wheat	0.375	6.7	18533	11120	66.7	121
Other enterprises	Dairy	1	10.0	96000	57600	66.7	120
	Total		**40.7**	**161733**	**98320**	**19.6**	**139**

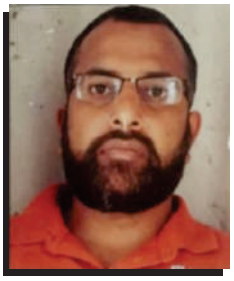
Brief : The farmer used to get annual income of ₹ 41100/acre from cultivation of rice, wheat and dry fodder alon with dairy and pension etc. He faced problems like high infestation of weeds and diseases etc. With interventions like veterinary camp, training and seeds distributions etc., he is getting annual income of ₹ 98320/acre.

Farmer with Maize crop

Progressive farmer with kiwi plants

Source: AICRP-WM Centre: CSHPKV, Palampur

Crop-diversification and integrated farming increase farmer's income



Name of farmer : Sh. Bandhan Patial

Address: Vill. Malag Po Malnu Teh. Palampur, Distt. Kangra

Mobile Number: 9816808171

Age: 34 yrs

Education: +2

Size of land holding (in acre): 1.5

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre) /Number	Production (q/acre/litre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Rice	0.75	8.0	11300	4900
Field Crop 2	Wheat	0.75	4.0	8400	5040
Other enterprises 1	Berseem	0.375	64.0	25600	21333
Other enterprises 2	Dry fodder	0.375	16.0	6400	4267
Other enterprises 3	Dairy	1	5.0	36000	22600
	Total		**97.0**	**87700**	**58140**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)/No.	Production (q/acre/litre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	0.125	8.0	19200	12800	-	-
Field Crop 2	Shorgun (g)	0.25	16.0	28000	16800	100.0	232
Field Crop 3	Wheat	0.375	6.7	18533	11120	66.7	121
Other enterprises 1	Berseem (g)	1	10.0	96000	57600	66.7	120
Other enterprises 2	Dairy	1	9.0	86400	51840	80	129
Other enterprises 3	Goat	2	0.0	10000	7000	-	-
	Total		**231.0**	**217400**	**143840**	**-**	**147**

Brief : The farmer used to get annual income of ₹ 58140/acre from crop cultivation and dairy etc. He faced problems like unavailability of improved seeds and diseases etc. With interventions like training and seeds distributions etc., he is getting net annual income of ₹ 143840/acre.

Farmer with maize crop

Progressive farmer with rice crop

Source: AICRP-WM Centre: CSHPKV, Palampur

Crop-diversification with vegetables increased farmer's income

Name of farmer : Sh. Jagdish Chand

Address: Vill. Malag Po Malnu Teh. Palampur, Distt. Kangra
Mobile Number: 9816382038
Age: 65 years
Education: Middle
Size of land holding (in acre): 2.5

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre) /Number	Production (q/acre/litre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Maize	0.125	4.0	7904	4744
Field Crop 2	Wheat	0.125	4.0	8400	5040
Other enterprises 1	Dry fodder	2.25	16.0	6400	4444
Other enterprises 2	Dairy	1	6.0	43200	25920
	Total		**30.0**	**65904**	**40148**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)/No.	Production (q/acre/litre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Maize	0.125	8.0	19000	11400	100	140
Field Crop 2	Shorgun (g)	0.375	120.0	36000	26667	-	-
Field Crop 3	Wheat	0.125	8.0	23200	13920	100	176
Vegetable-1	Okra	0.0625	16.0	32000	27200	-	-
Vegetable-2	Cauliflower	0.0625	48.0	96000	72000	-	-
Other enterprieses	Dairy	1	11.0	105600	63360	83	144
	Total		**211.0**	**311800**	**214547**	**603**	**434**

Brief : The farmer used to get annual income of ₹ 40148/acre from crops like maize, wheat, dairy and shop etc. He faced problems like unavailability of improved seeds and high infestation of insects etc. With interventions like training and seeds distributions etc. He is getting annual income of ₹ 214547/acre.

Farmer with maize crop

Progressive farmer with vegetable crop

Source: AICRP-WM Centre: CSHPKV, Palampur

Crop-diversification with vegetables increased farmer's income

Name of farmer : Sh. Inderjeet Singh

Address: Vill. Dugni Po Malahu Teh. Palampur, Distt. Kangra

Mobile Number: 9816198736

Age: 62 years

Education: Matric

Size of land holding (in acre): 1.625

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre) /Number	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Maize	0.125	0.5	978	593
Field Crop 2	Wheat	0.250	1	2100	1260
Other enterprises	Dry fodder	1.5	24	9600	7000
	Total			**12678**	**8853**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)/No.	Production (q/acre/kutre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Maize	0.125	1	2375	1425	200	242
Field Crop 2	Paddy	0.250	3.5	6125	3675	-	-
Field Crop 3	Wheat	0.3125	2.5	6950	4170	200	264
Veg. Crop 1	Cauliflower	0.031	0.5	1000	800	-	-
Veg. Crop 2	Onion	0.018	0.3	600	400	-	-
Veg. Crop 3	Garlic	0.0125	0.1	1500	1100	-	-
Other enterprises 1	Dry fodder	1.25	25	15000	12000	125	187
Other enterprises 2	Dairy	1	9	86400	51840	-	-
	Total			**119950**	**64610**	**-**	**186**

Brief : The farmer used to get annual income of ₹ 8853/acre from crops and pension etc. He faced problems like infestation of insects and weeds etc. With interventions like training and seeds distributions etc. He is getting annual income of ₹ 64610/acre.

Farmer with vegetables and maize crop

Farmer with horticullture plants and green fodder

Source: AICRP-WM Centre: CSHPKV, Palampur

Integration of dairy with crops for increased farmer's income

Name of farmer: Smt. Kusum Lata

Address: Vill. Malag Po Malnu Teh. Palampur, Distt. Kangra

Mobile Number: 8894050940

Age: 45 years

Education: Matric

Size of land holding (in acre): 0.375

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre) /Number	Production (q/acre/litre)	Gross Income (₹/acre)	Net Income ₹/acre)
Field Crop 1	Maize	0.125	6.0	11696	7024
Field Crop 2	Rice	0.250	8.0	11300	5060
Field Crop 3	Wheat	0.375	4.0	8400	5040
Other enterprises	Dairy	1	7.0	50400	30000
	Total		**25.0**	**81796**	**47124**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)/No.	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Maize	0.1875	8.0	19333	11600	33	65
Field Crop 2	Rice	0.1875	16.0	28000	16800	100	232
Field Crop 3	Wheat	0.375	6.7	18533	11120	67	121
	Dairy	1	10.0	96000	57600	43	92
	Total		**40.7**	**161867**	**97120**	**63**	**106**

Brief : The farmer used to get annual income of Rs 47124/acre from agriculture and Dairy etc. She faced problems like insect etc. With interventions like Training and seeds distributions etc. She is getting annual income of Rs. 97120/acre.

Farmer with dairy animal

Progressive farmer with maize crop

Source: AICRP-WM Centre: CSHPKV, Palampur

Crop-diversification for higher income

Name of farmer : Sh. Karm Chand

Address: Vill. Dugni Po Malahu Teh. Palampur, Distt. Kangra

Mobile Number: 9816518475

Age: 47 years

Education: Middle

Size of land holding (in acre): 3.75

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre) /Number	Production (q/acre/litre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Maize	0.250	4.0	7900	4740
Field Crop 2	Rice	1.125	8.9	12556	6156
Field Crop 3	Wheat	1.375	4.4	9164	5498
Other enterprises 1	Dry fodder	2.375	16.0	6400	5053
Other enterprises 2	Dairy	1	4.0	38400	23040
	Total		**37.3**	**74419**	**44486**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)/No.	Production (q/acre/litre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Maize	0.375	6.7	16000	9600	67	103
Field Crop 2	Rice	1	16.0	28000	16800	80	173
Field Crop 3	Wheat	1.09	7.3	21284	12771	68	132
Veg. Crop 1	Cauliflower	0.125	48.0	96000	72000	-	-
Veg. Crop 2	Onion	0.0625	24.0	48000	32000	-	-
Veg. Crop 3	Garlic	0.0313	11.2	167732	127796	-	-
Other enterprises	Dairy	2	8.0	115200	69120	100	200
	Total		**121.2**	**492216**	**340086**	**225**	**664**

Brief : The farmer used to get annual income of ₹ 44486/acre from agriculture, dairy and Pvt. Job etc. He faced problems like infestation of more insects and diseases etc. With interventions like training and seeds distributions etc. He is getting annual income of ₹ 340086/acre after intervention.

Farmer with maize crop

Farmer with rice Kiwi Plants

Source: AICRP-WM Centre: CSHPKV, Palampur

Diversification & integrated farming for improved income

Name of farmer : Sh. Bahadur Ram

Address: VPO Kasba Punner Teh. Palampur, Distt. Kangra

Mobile Number: 9816535870

Age: 66 years

Education: Illterate

Size of land holding (in acre): 1.875 (Leased in 1.25)

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre) /Number	Production (q/acre/litre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Maize	0.125	6.0	11696	6984
Field Crop 2	Rice	0.5	12.0	16950	10630
Field Crop 3	Wheat	0.5	5.0	10400	6300
Other enterprises 1	Berseem	0.125	64.0	25600	20800
Other enterprises 2	Dairy	2	3.0	28800	17325
	Total		**90.0**	**93446**	**62039**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)/No.	Production (q/acre/litre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Rice	1.375	16.0	28000	14364	33.3	35.1
Field Crop 2	Maize	0.375	8.0	16000	10667	33.3	52.7
Field Crop 3	Wheat	0.125	24.0	48000	32000	-	-
Veg. Crop 1	Okra	1.625	6.2	12308	6154	23.1	-2.3
Veg. Crop 2	Potato	0.0625	40.0	60000	32000	-	-
Other enterprises 1	Dairy-1	3	5.0	48000	19200	66.7	10.8
Other enterprises 2	Goat -2	8	0.0	5000	3500	-	-
Other enterprises 3	Poultry-3	20	0.0	400	300	-	-
Other enterprises 4	Berseem (g)	0.1875	80.0	40000	32000	25.0	53.8
	Total		**179.2**	**257708**	**150184**	**99.1**	**142.1**

Brief : The farmer used to get annual income of ₹ 62039/acre from Agriculture and Dairy etc. He faced problems like insect, pest and diseases etc. With interventions like Veterinary camp, Training and seeds distributions etc. He is getting annual income of ₹ 150184/acre.

Farmer with dairy animals

Farmer with goats

Source: AICRP-WM Centre: CSHPKV, Palampur

Integrated weed management for higher income

Name of farmer : Sh. Sabroop Kumar
Address: VPO Kasba Punner Teh. Palampur Distt. Kangra
Mobile Number: 9805848947
Age: 51 years
Education: Middle
Size of land holding (in acre): 10

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop 1	Maize	0.5	4.0	7000	4200
Field Crop 2	Paddy	1.5	5.3	11300	4900
Field Crop 3	Wheat	2.5	4.0	8400	5040
Other enterprises 1	Berseem	0.125	64.0	25600	20800
Other enterprises 2	Dry grass	7.375	6.8	2712	2169
	Total		**84.1**	**55012**	**37109**

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop 1	Maize	0.125	6.0	12000	6400	50	52
Field Crop 2	Sorghum (fodder)	2	120.0	3600	2750	-	-
Field Crop 3	Wheat	1.75	5.7	16000	9143	43	81
Other enterprises 1	Makkhan grass	0.875	68.6	34286	25143	-	-
Other enterprises 2	Dry grass	7.375	7.5	4475	3254	10	50
	Total		**207.7**	**70360**	**46690**	**147**	**26**

Brief : The farmer used to get annual income of ₹ 37190/acre from agriculture and other allied activities etc., He faced problems like high infestation of weeds, pests etc. With interventions like use of integrated weed management, he is getting net annual income of ₹ 46690/acre. In addition there is cost saving of ₹ 55,000 in the production of the above crops.

Maize

Sorghum

Source: AICRP-WM Centre: CSHPKV, Palampur

Miscellaneous

Zero-tillage and weed management in wheat for higher income

Name of farmer : Sh. Naveen Kumar
Address: Village Bhoa, Distt. Pathankot
Mobile Number: 9855497950
Age: 40 yrs
Education: Higher Secondary
Size of land holding (in acre): 5

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop	Wheat	5	19	32300	21300

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop	Wheat	5	21	39900	30900	9.5	26

Brief : The farmer used to get annual income of ₹ 21300/acre from conventional wheat. He faced problems like *Phalaris minor* in wheat and incorporation of paddy straw. With interventions like sowing of wheat in anchored rice straw with Happy seeder, applying need based post-emergence herbicides and weed seed harvest, he is now getting annual income of ₹ 30900/acre. In addition, there is cost saving of ₹ 2000/acre in the production of wheat.

Sowing of wheat with Happy seeder in anchored rice straw

Control of *Phalaris minor* in Happy seeder sown wheat

Source: AICRP-WM Centre, PAU, Ludhiana

Management of *Phalaris minor* with new herbicides

Name of farmer : Gurtej Singh S/o Balwant Singh
Address: Village Dholan, Tehsil-Jagraon, District - Ludhiana
Mobile Number: 9915642191
Age: 27 years
Education: Graduation
Size of land holding (in acre): 18

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop	Wheat	18	18	18	19600

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop	Wheat	18	20	38000	28000	11	43

Brief : The farmer used to get annual income of ₹ 19600/acre from wheat. He faced problems like poor control of *Phalaris minor* in wheat with existing herbicides. With interventions like ZT wheat sowing, pre-emergence herbicide pyroxasulfone and post-emergence herbicide clodinafop + metribuzin and herbicide rotation, he is getting annual income of Rs. 28000/acre now. In addition, there is cost saving of ₹ 2000/acre in the production of wheat due to sowing with ZT machine.

Poor control of *P. minor* in wheat

Use of new herbicide pyroxasulfone in wheat

Source: AICRP-WM Centre, PAU, Ludhiana

CA in wheat controls weeds and increases farmer's income

Name of farmer : Joginder Singh S/o Balwant Singh
Address: Village Baude, District - Moga
Mobile Number: 9876197996
Age: 52 years
Education: Matric
Size of land holding (in acre): 20

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop	Wheat	20	16	27200	25200

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop	Wheat	20	20	38000	29000	25	15

Brief : The farmer used to get annual income of ₹ 25200/acre from wheat. He faced problems like *Phalaris minor* in wheat. With interventions like sowing with Happy Seeder, need-based herbicide application and weed seed harvest, he is getting annual income of ₹ 29,000/acre. In addition, there is cost saving of ₹ 2000/acre in the production of wheat.

Poor control of *Phalaris minor* in wheat

Wheat under CA

Source: AICRP-WM Centre, PAU, Ludhiana

Weed management increased productivity and farmer's income

Name of farmer: Sh. Suryamani Nayak

Address: S/o Bhimsen Nayak, Analmada, Khandapada, Nayagarh, Odisha

Mobile Number: 9938420531

Age: 42 years

Education: 2

Size of land holding (in acre): 5

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)
Field Crop	Sugarcane	5.0	160	37000	19600

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (acre)	Production (q/acre)	Gross Income (₹/acre)	Net Income (₹/acre)	Production	Income
Field Crop	Sugarcane	5.0	240	76800	42000	50	114

Brief : The farmer used to get annual income of ₹ 19600/acre from sugarcane. He faced problems like parasitic weeds and other early stage weeds etc. With interventions like pre-emergence herbicide and parasitic weed management etc., he is now getting annual income of ₹ 42000/acre. In addition, there is cost saving of ₹ 3600/acre as labour saving in the production of sugarcane.

Sugarcane

Source: AICRP-WM Centre: OUAT, Bhubaneswar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ICAR - Directorate of Weed Research

जबलपुर, मध्य प्रदेश

Jabalpur, Madhya Pradesh

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