

Management of grassy weeds in direct seeded rice

SUCCESS STORY - 2



Sh. Manoj Patel

SL	PARTICULARS	DETAILS
1	NAME OF THE FARMER	SH. MANOJ PATEL
2	ADDRESS	
	(i) VILLAGE	Tagar
	(ii) POST	Umaria Patra
	(iii) TEHSIL	Jabalpur
	(iv) DISTRICT	Jabalpur
	(v) STATE	Madhya Pradesh
3	CONTACT DETAILS	09300076015
4	DETAILS OF FARM (SIZE, WATER AVAILABILITY ETC.)	9 acres with irrigation facilities (tube well)
5	MEMBERSHIP IN SELF-HELP GROUP, PRODUCERS, COOPERATIVE SOCIETY ETC.	Kisan Credit Card, Allahabad Bank, Kushner, Panagar Jabalpur and Member of Cooperative Society, Panagar
6	NAMES OF THE CENTRAL SECTOR / STATE SCHEMES UTILIZED BY THE FARMER AND THE PERIOD	Weed control technologies transferred by Directorate of Weed Science Research (DWSR), ICAR, Jabalpur, being adopted since last five years
7	TECHNOLOGIES / GOOD AGRICULTURAL PRACTICES/ FACILITIES / BENEFITS OBTAINED WITH DETAILS	Management of Sawa (Echinochloa colona) and other grassy weeds in direct seeded rice using fenoxaprop (60 g/ha) at 25 DAS. This technology has increased total production, improved quality of produce, decreased the requirement of pesticides and increased net income.

SL	PARTICULARS	DETAILS	
8	DETAILS OF RESULTS OBTAINED DUE TO THE ADOPTION OF TECHNOLOGIES (RESULTS ACHIEVED)	Improved/ Present production technologies	Traditional/ past production practices
(I)	TECHNIQUES ADOPTED FOR WEED MANAGEMENT	Fenoxaprop 60 g/ha	Hand weeding
(II)	PRODUCTIVITY PER HECTARE	40 q/ha	30 q/ha
(III)	COST OF PRODUCTION PER HECTARE	Rs 9000/ ha	Rs 12000/ ha inclusive of hand weeding charges
(IV)	TOATL GROSS INCOME PER HECTARE	Rs. 36000 per hectare (40 q X Rs. 900/ q)	Rs. 25500/ ha (30 q X Rs. 850/ q less price as there was impurities like weed seeds)
(V)	NET INCOME PER HECTARE	Rs. 27000	Rs. 13500
(VI)	PRICE REALIZED (RS. PER TON)	Profit - Rs. 6750/ ton Cost Rs. 2250/ ton	Profit - Rs. 4500/ ton Cost Rs. 4000/ ton
(VII)	NATURAL RESOURCES SAVED/ CONSERVED LIKE SOIL, WATER ETC.	High utilization of water and organic matter by crop	Loss of water & organic matter due to weeds
(VIII)	PRODUCT QUALITY IMPROVEMENT	Due to improved weed management technology, the attack of other pests was significantly minimized and the quality of the produce was recorded with even and bold grain seed yield	The quality of the farm produce was much contaminated with objectionable weed seeds along with irregular grain size

SL	PARTICULARS	DETAILS
----	-------------	---------

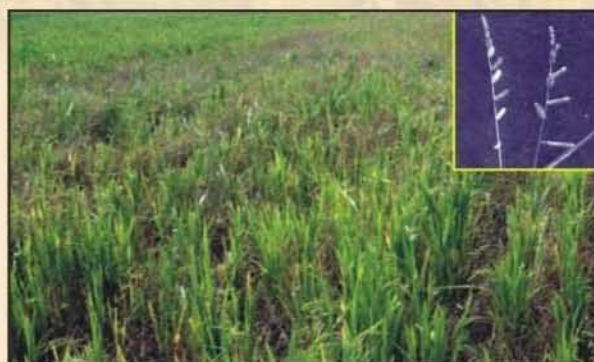
10 FACTORS CONTRIBUTING TO SUCCESS

Grassy weeds such as *Echinochloa colona* have been reported to cause 50-60 per cent yield loss in direct seeded rice due to competition for light, moisture, space, nutrients etc. As a result of which the growth of the crop is much suppressed and consequently the crop face huge loss in productivity. The quality of the produce was also found deteriorated. Due to adoption of improved weed management technologies advised/ demonstrated by the Directorate of Weed Science Research, ICAR, Jabalpur, the weeds were significantly controlled and the yield obtained was of good quality and increased the yield by 10 q/ha. The sawa (*Echinochloa colona*) was usually not controlled by the traditional practices but was significantly controlled by the use of Fenoxaprop (60 g a.i. /ha) as post emergence (25-30 days after sowing) using 500 litres of water and knapsack sprayer. The traditional methods also involve labour and time consumption.

11 ANY OTHER RELEVANT INFORMATION

The farmers of nearby villages visiting the fields were also acquainted with the latest development of improved weed management technology and took lot of interest in adopting the same using the recommended herbicides to reduce the cost of cultivation and increase total production and net profit. The technology also helped to overcome the labour problem/ crisis during weeding season.

SL	PARTICULARS	DETAILS
10	MARKETING STRATEGY ACCESS TO MARKET (THROUGH PRIVATE, COOPERATIVE, CONTRACT FARMING ETC.)	Farm produce, obtained is marketed through Sehkari Samiti Maryadit Sakha operating at the block level



Untreated field



Fenoxaprop treated field