EXPERIENCES FROM MOUNTAIN FARMS OF UTTARAKHAND



Rikeshwar Prasad Tehri Garhwal, Uttarakhand

Personal Details

Name: Shri Rikeshwar Prasad

Age: 42 Years

Education qualification: B.A. Pass.

Name of village: Andarthi

Name of district: Tehri Garhwal

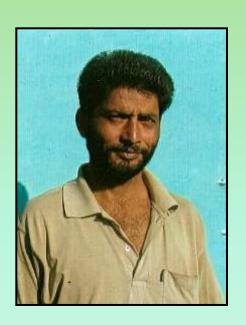
Name of state: Uttarakhand

Number of family members: 4

Primary occupation: Agriculture, animal

husbandry

Number of years in farming: Since childhood



Paddy Cultivation

Total agriculture land: 0.1 ha (5 nali)

Extent of paddy land: 0.1 ha (5 nali)

Livestock: Two buffaloes

Water source: Stream (gadhera)

Inputs used: Plow, vermi-compost, and spade

Yields obtained in flooding method: 15 Q/ha (30 kg/nali)

Source of information for SRI: Peoples' Science

Institute, Dehradun

SRI Adoption - Variations

S.	Practices	Conventional	SRI Technique
No.		Technique	
1	Nursery	Seed-2kg/ nali	Seed - 250 gm/nali
2	Preparation of	Marker not	Marker used
	field	used	
3	Transplantation	No fixed	10" x 10" (10-days-old
		spacing	seedlings transplanted)
4	Weeding	Manual	Weeder used 3 times
5	Management of	6" water	Application of 1" inch
	water	applied	water, rest drained
		throughout	
6	Fertilizers/	Vermi	Panchgavya, Vermi-
	manure	Compost	compost, vermi-wash

Nursery Raising









SRI Operations









Upscaling SRI

	Year 2006	Year 2007	Year 2008
Area under S.R.I.	0.5 Nali (0.01 ha)	2.0 Nali (0.04 ha)	4 Nali (0.08 ha)
Seasons	Kharif	Kharif	Kharif
Variety	Pant- 11	China- 04	China- 04
Inputs used	Vermi-compost,	Vermi-compost,	Vermi-compost,
	vermi-wash &	Vermi-wash &	Vermi-wash &
	panchgavya	panchgavya	panchgavya
Practices followed	Weeder used 3	Weeder used 3	Weeder used 3 times
	times	times	
Implements used -	Weeder and	Weeder and	Weeder and marker,
their availability	marker, provided	marker, provided	provided by MVDA
and usage	by PSI	by MVDA	
Plant protection-	-	-	-
pests & diseases			
found, and how			
controlled			
Grain yields	50 kg/nali	75 kg/nali	62.5 kg/nali
	(25 Q/ha)	(37.5Q/ha)	(31.25 Q/ha)

Perceived Benefits

- Less seed, i.e. 250 g/nali
- Less water (0.5" 1.0") required in this method.
- Less time required
- Needs less labour work
- Grain production double that conventional method
- Green fodder production
 2- 2.5 times more





Comparative Results

Parameter	Conventional Technique	SRI Technique
Total number of tillers	10	58
Average plant height (cm)	145	174
Productive tillers	6	41
Average panicle length	20	24
(cm)		
Average number of	130	254
grains/panicle		
Total output - grain	30 kg/nali	62.5 kg/ nali
	(15.00 Q/ha)	(31.25 Q/ha)
Total output - straw	40 kg/nali	88.5. kg/nali
	(20.00 Q/ha)	(44.25 Q/ha)
Total cost of cultivation	Rs. 435/nali	Rs. 250/nali
(Rs.)	(Rs. 21,750/ha)	(Rs. 12,500/ha)
Net profit earned	- Rs. 2,750/ha	Rs. 27,600/ ha

Experience Sharing









Innovations with Wheat



SRI- Constraints & Lessons

A. CONSTRAINTS

- Difficult to use marker and weeder for the first time, especially by women
- Difficult to use weeder and marker in small and irregular terraces
- Difficulty in transportation of 10-day-old seedlings
- Uncertain availability of water under rainfed conditions, especially after milking stage

B. LESSONS

- Nursery raising and transplanting should be done on time
- More weeding results in higher yields
- Design modifications required in Mandava weeder for small terraces
- Proper water
 management is required
 in terraced fields

Suggestions

- More awareness and capacitybuilding of farmers is required for promoting SRI.
- Timely availability of quality markers and weeders is required.
- Subsidy for manure and equipment from government.

Thank You