



SYSTEM OF RICE INTENSIFICATION

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IRAN

Report on System of Rice Intensification in Iran, 2007

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Introduction

This is second report on SRI in Iran, based on work B. Amiri Larijani and associates with some key farmers on a 10-hectare paddy field in Mazandaran Province near the Caspian Sea. Most of the farmers used the local variety named “Taron” due to its good grain quality and the high price that it receives. However, this year, trials have been conducted with three varieties including a local variety, an improved variety and hybrid rice following SRI principals such as transplanting one young seedling per hill, square transplanting, intermittent irrigation, wide spacing (25x25 cm on experimental field and 30x30 on farmers’ field), and application of organic matter and green manure such as broad bean and berseem clover. Unfortunately, we couldn’t use a rotary weeder in most of cases, and weed control has done by hand and pre-emergence herbicide. Transplanting time was from the 6th to 20th of May and harvesting time was from 28 August to 19 September. SRI practice in most cases indicated good results in comparison with conventional practice, especially in small fields and a moderate region such as the northern province of Iran. This year’s results were as follow:

Variety	Mean Tiller No./Hill		Maximum Tiller No./Hill		Plant Height (cm)					
	Conv.	SRI	Conv.	SRI	Conv.	SRI				
Local	13.3	16.6	18	45	150.3	160.2				
Improved	20.4	34.4	54	87	103.6	113.4				
Hybrid	22.2	36.4	57	94	105.9	116				
Variety	Panicles/m ²		Panicle Length (cm)		Spikelets per Panicle		Ripening %		Yield (ton/ha)	
	Conv.	SRI	Conv.	SRI	Conv.	SRI	Conv.	SRI	Conv.	SRI
Local	229.4	293.9	22.5	25.8	75	127	76	88.2	3.6	5.8
Improved	267.9	331.8	25.1	31.8	121	210	69.8	78.6	6.1	9.8
Hybrid	307.5	406.1	27.1	28.8	154	240*	65	74.6	7.2	10.8

* Maximum spikelet number per panicle was 322 with hybrid rice under SRI



Raising of young box seedling for transplanting



Square transplanting with one seedling per hill by 25x25 cm



Growth and tillering of seedlings under good condition



SRI at demonstration field (large plot, more than 6000 m²)

