

## **A study of paddy cultivation through System of Rice Intensification (SRI)**

**Name:** Subhas Mahato, A small farmer

**Address:** Village: - Saibandh, P.O:- Barida, P.S:- Keshiari, West Midnapore, West Bengal

**Total Land:** 7 decimal (66' x 44')

**Paddy variety:** 'Mugaisal' an indigenous paddy variety

**Period:** - Kharif season 2008

**Process:** - At first on a plank of wood cow dung and water was spread on a polythene sheet and the paddy seeds are broadcasted on it. Then 10 decimal area was ploughed and 48 bucket of compost was added to it. In that area 60 beds of (4 x 10) ft.size was made according to design. Then the seedlings of 12 days old was planted in 10" x 10" distance. As intercultural operation water has been given in alternate of 4 days and weeding was also done.



Seed bed



Preparation of bed



10" x 10" marking on the bed



Collection of seedlings  
from seed bed



Transplanting



Transplanting



Seedlings at 45° angle





Growing stage of plant



Tillering stage (8 tillers)



Tillering stage (30 tillers)



Panicles emerging



Harvesting of paddy

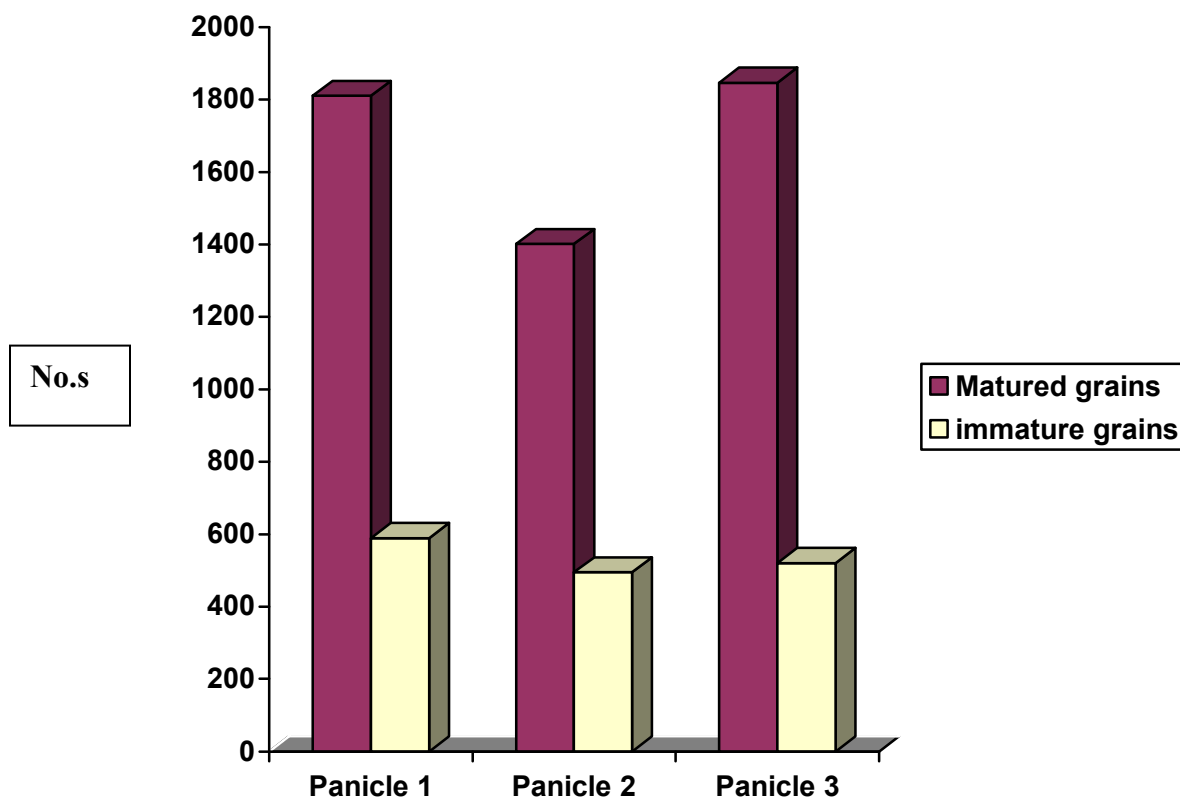


The produce

**Maintenance:** - Weeding has been done twice. 10 kg vermicompost has been applied after weeding.

**Result:**

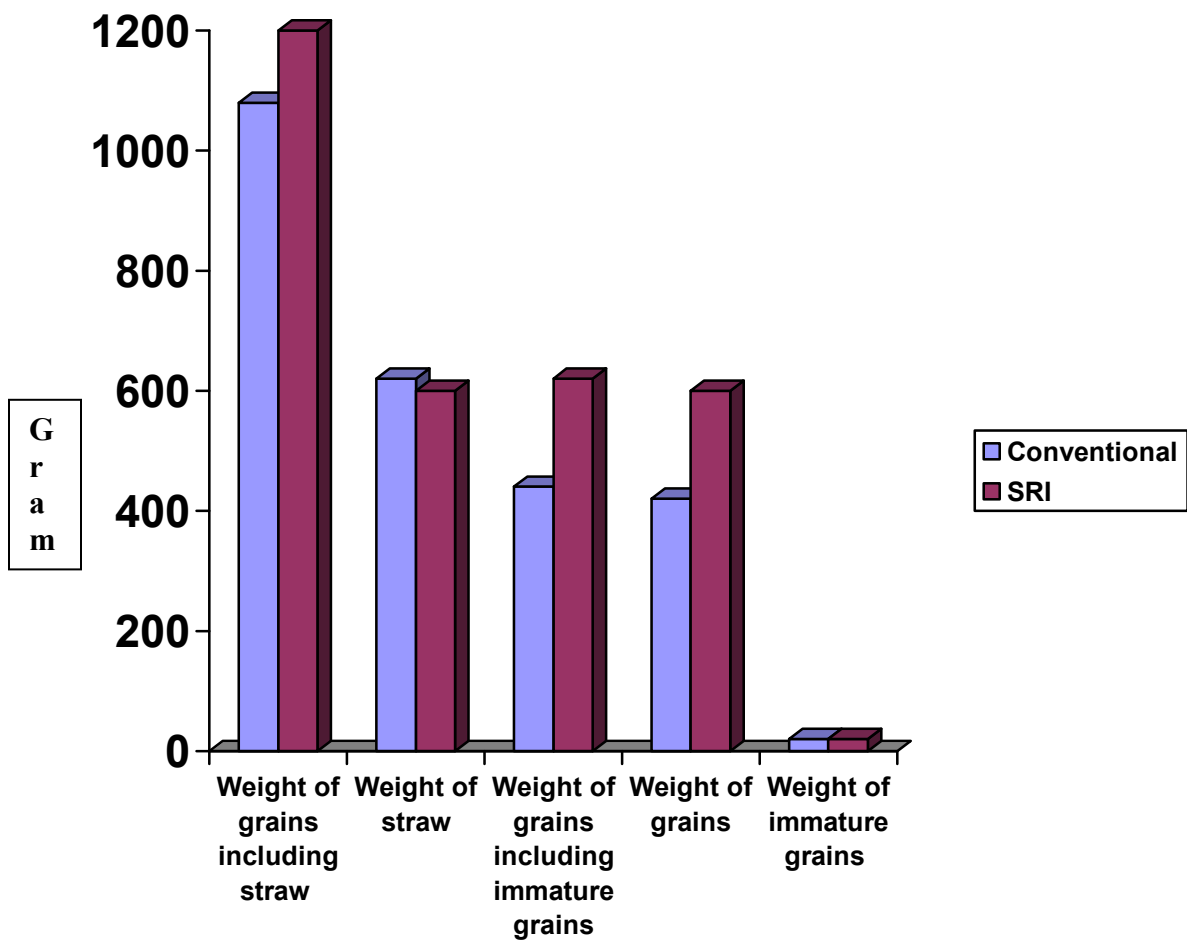
- ❖ Highest & lowest no. of tiller was 43 and 32 respectively.
- ❖ The average no. of tiller was 35.
- ❖ The quantity of paddy that has been harvested from 60 beds was 96.03 kg.
- ❖ In conventional method the no. of tillers was 8-16, but in SRI method it was 32-43.
- ❖ No. of grains in 20 gram: - Conventional practice: 804, SRI: 770
- ❖ No. of grains in 60 panicle: - Conventional practice: 4085, SRI: 5058



**Fig: Information of panicles in 20 beds**

**Difference between various information of a coil of straw containing 340 panicle in Conventional and SRI cultivation method:-**

Weight of grains including straw	Weight of straw	Weight of grains including immature grains	Weight of grains	Weight of immature grains
Conventional practice: 1080 gram	Conventional practice: 620 gram	Conventional practice: 440 gram	Conventional practice: 420 gram	Conventional practice: 20 gram
SRI: 1200 gram	SRI: 600 gram	SRI: 620 gram	SRI: 600 gram	SRI: 20 gram



**Fig: Difference between various information of a coil of straw containing 340 panicle in conventional and SRI cultivation method**