



Resilience to drought SRI shows the way

CROPS-Jangaon (Warangal district)
A Case study
ICRISAT-WWF Project



ICRISAT-WWF Interventions

Actively involved in SRI promotion since 2004

Field demos, farmers exchange programs, meetings, trainings, workshops and national symposia etc., with partner organizations

Supporting research on SRI – ANGRAU, DRR, ICRISAT etc.

Policy advocacy through policy dialogues

Media advocacy

Publications and website (www.sri-india.net)



CROPS - Jangaon, Warangal

- ? Dryland (83%) and rainfed agriculture
- ? Rice-growing region - most farmers grow rice under conventional method for both subsistence and commerce.
- ? Operational Area - Katkur village, Bonakallur and Chinnaramcherla
- ? 463 farmers have been motivated from 7 villages to adopt SRI method in 354.5 acres of land
- ? Katkur village has gained the distinction as first of its kind village in the Andhra Pradesh with the highest percentage (80%) of SRI farmers achieved in a record time of within 2 seasons.



Katkur Village-Jangaon Mandal

Total land area: 3075.32 acres

- Cultivable land: 2631.23 acres
- Non cultivable land : 444.09 acres

Water sources

- Total no. of bore wells : 305
- Open wells: 81
- Ponds : 2

Total no. of SRI farmers in
CROPS operational area – 334

- Katkur – 175 farmers in 121 acres



Kharif 2009

- Severe drought declared in the entire Telangana region along with several parts of the country
- Failure of –
dryland crops
conventional paddy



Rainfall and Groundwater levels

	Rainfall in mm			Depth to Groundwater levels in metres	
	Normal up to July	Actual up to July 08	Actual up to July 09	July 08	July 09
Andhra Pradesh	297	245	157	9.93	11.09
Coastal Andhra	277	283	175	7.80	8.98
Rayalaseema	168	121	92	12.20	13.50
Telangana	367	261	166	11.00	12.14
Hyderabad	277	161	106	9.55	9.49

The Hindu, August 18th, 2009



Observations

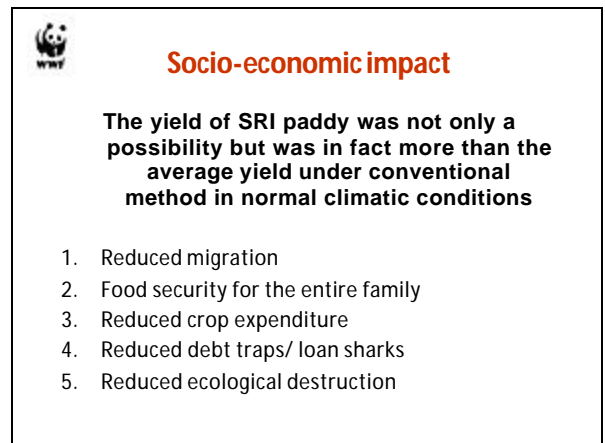
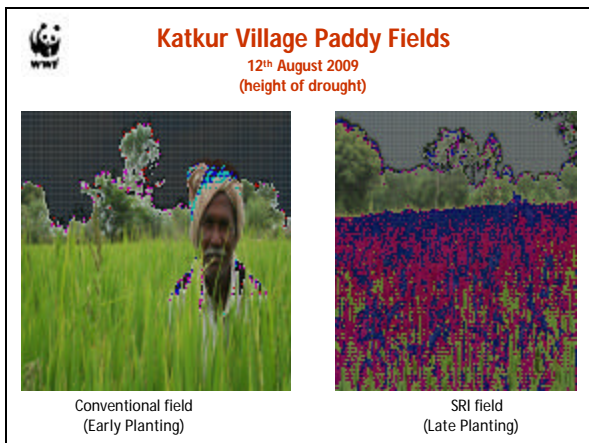
	Conventional	SRI
Irrigation	Flooded daily	Once in 4-5 days
Field condition	Deep and large cracks because of lack of earthingup with weeders	Minor surface cracks because of regular unearthing of soil
Root spread	Dried and dead due to lack of water	Healthy and deep
Tillering	10-15	50-60 tillers
yield	15 bags per acre	50 bags per acre
Cost of cultivation	More (digging deeper borewells)	Less (existing water sources adequate)

The alternate wetting and drying of the paddy field and the strong and deep root growth makes the roots and soil adaptable to drought conditions



Farmer Siddimalaiah's SRI crop could sustain without water for even up to 9 days







Though pest attack was noticed, Sugunamma is not much affected by the drought conditions in her three acres of SRI paddy field (12th August 2009)



**Impact of SRI under drought conditions –
Kharif 2009**

**A study conducted by ICRISAT-WWF Project
and DRR**

**The study is ongoing and the results are
awaited**



Thank you