




RESEARCH  
PROGRAM ON  
Dryland Systems

A decorative graphic consisting of several overlapping, wavy bands in shades of brown, yellow, green, and blue, spanning the width of the page.

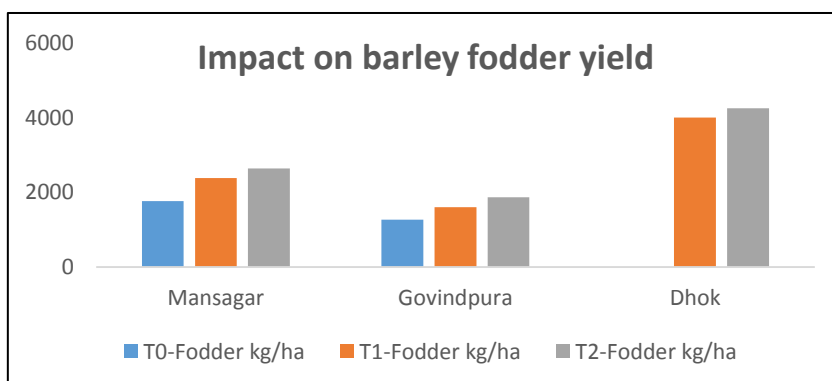
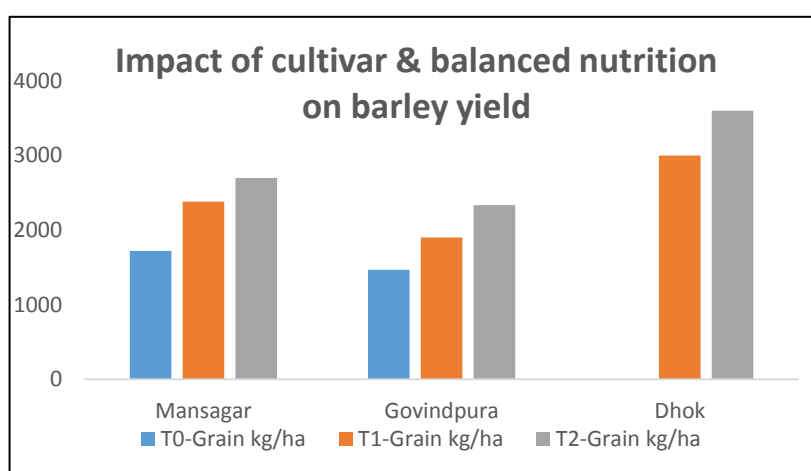
**Implementation report on  
“Cropping systems intensification and  
resilience building”**

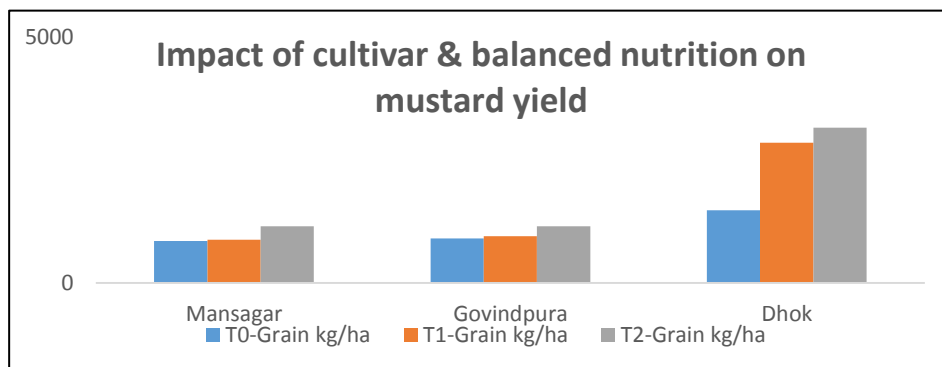
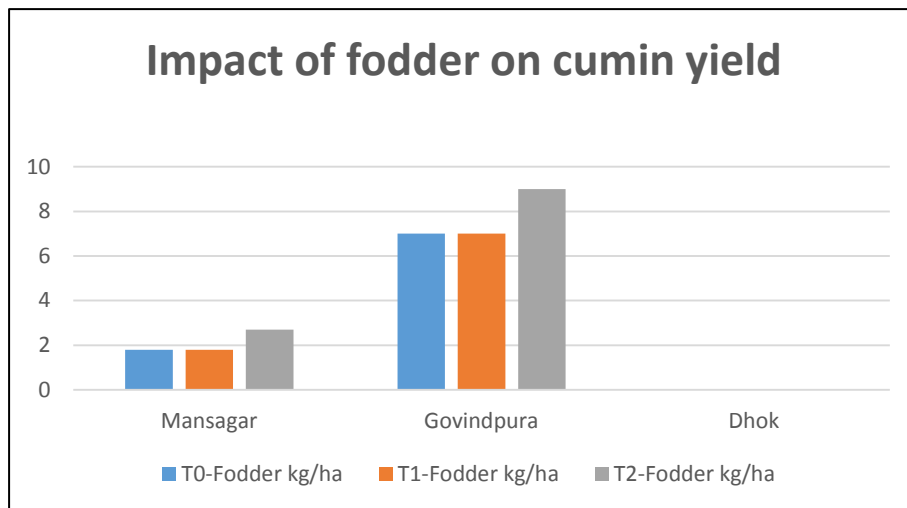
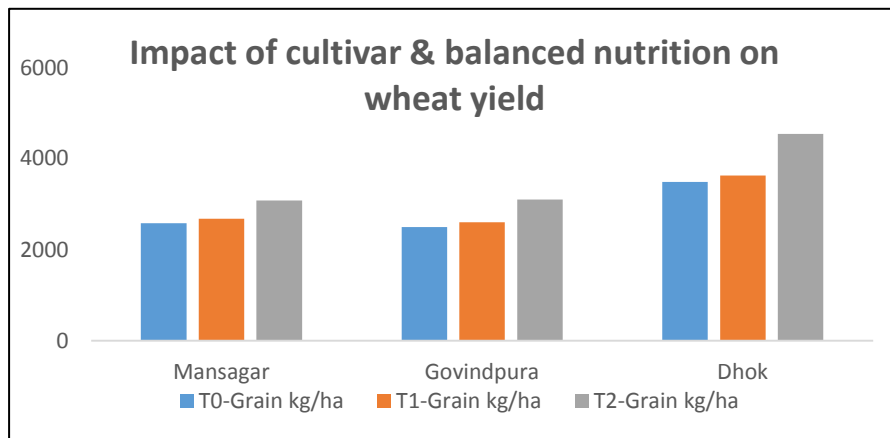
Shalander Kumar, Anthony Whitbread  
ICRISAT, Hyderabad, India

*June 2015*

A total of 124 Rabi demonstrations have been taken in seven targeted villages of CRP 1.1. The improved varieties were tested with or without recommended POP and the yield was compared with farmer's practices and improved management practices. In which Wheat 34, Barley 30, Mustard 20, Chickpea 19, Cumin 17, Lentil 4 Demonstration has taken in seven villages. The objective was to intensify the cropping systems under scarce resource situations.

In general the Rabi crops on farm trials at all the locations were good. However, in Khadin area of Jaisalmer district, crops are experiencing moisture stress which was visually perceptible in crop growth and stand. The general trend of crop condition was in order of chickpea, barley, wheat and mustard. Further the performance of lentil was poor which may be attributed to late sowing and poor soil conditions in the selected site. The lentil is almost failed at all the sites which may be attributed to one or the other reason like late sowing, heavy disease infestation (Fusarium wilt & Dry root rot), moisture stress. Poor soil condition.





<b>KHARIF CROPS DEMONSTRATION PLAN 2015</b>					
VILLAGE	BAJRA	MOON G	MOTH	CLUSTER BEAN	TOTAL
GOVINDPURA	4	4	4	3	15
MANSAGER	4	4	4	3	15
DHOK	5	5	5	0	15
DHIRASAR	4	4	4	3	15
DEDA	7	0	0	8	15
DAMODARA	7	0	0	8	15
DIDU	5	5	0	5	15
SANKRIYA	0	8	0	7	15
TOTAL DEMOS	36	30	17	37	120
SEED RATE	3 KG /ACRE	4 KG/ACR E	4 KG/ACR E	4 KG/ACRE	120 DEMONSTRATIO NS
REQUIRMENT OF SEED	108 KG	120 KG	68 KG	148 KG	
Recommended Varieties	GHB - 538	GM-4	RMO- 257	RGM-112	
	HHB-67	RMG- 268	CZM- 2,3	RGC-1017	
	RAJ-171	SML- 668	RMO- 40	RGC-1002	
	RHB- 121	RMG- 344	RMO- 435	RGC-1003	

<b>Multiple cropping system on Khadin (Proposed)</b>					
S.No.	Name of farmer	Father/ Husband name	Caste	Village	Crop
1	Mr. Tagat singh	Mr. Achal singh	Raajpoot	Damodara	Moong
2	Mr. Hingol singh	Mr. Daan singh	Raajpoot	Damodara	Moth bean
3	Mr. Chanan ram	Mr. Moola ram	Meghwal	Damodara	Gwar
4	Mr. Kachara ram	Mr. Dhara ram	Meghwal	Damodara	Moong
5	Mr. Jeevan laal	Mr. Prabhu laal	Suthar	Dedha	Moong
6	Mr. Ganpat singh	Mr. Mangal singh	Raajpoot	Dedha	Gwar

Proposed Plantation on Khadin under multiple cropping system				
S.No.	Name of beneficiary	Father/Husband Name	Village name	Number of multipurpose trees to be planted
1	Mr. Kishan singh	Mr. Bhanwar singh	Damodara	50
2	Mr. Sujaan singh	Mr.	Damodara	50
3	Mr. Shaitan singh	Mr. Nakhat singh	Dedha	50
4	Mr. Bhankhat singh	Mr. Mangal singh	Dedha	50
5	Mr. Chanana ram	Mr. Moola ram	Damodara	20
6	Mr. Hingol singh	Mr. Daan singh	Damodara	20

Kharif crop Demonstration - list of farmer				
S.No.	Name of farmer	Father/Husband name	Caste	Name of Village
1	Mr. Sabal singh	Mr. Durg singh	Raajpoot	Damodara
2	Mr. Bhagyeni	Mr. Arjun ram	Bheel	Damodara
3	Mr. Chatur singh	Mr. Pokar singh	Raajpoot	Damodara
4	Mr. Kishan singh	Mr. Magan singh	Raajpoot	Damodara
5	Mr. Tulach singh	Mr. Akhe singh	Raajpoot	Damodara
6	Mr. Loon singh	Mr. Abhai singh	Raajpoot	Damodara
7	Mr. Dhasu ram	Mr. Peera ram	Meghwal	Damodara
8	Mr. Kachara ram	Mr. Dhara ram	Meghwal	Damodara
9	Mr. Chena ram	Mr. Poonam ram	Bheel	Damodara
10	Mr. Kishan singh	Mr. Bhanwar singh	Raajpoot	Damodara
11	Mr. Raanu singh	Mr. Ugam singh	Raajpoot	Damodara
12	Mr. Jaitmal singh	Mr. Oog singh	Raajpoot	Damodara
13	Mr. Jethu singh	Mr. Jawahar singh	Raajpoot	Damodara
14	Mr. Narsingaram	Mr. Chuna ram	Bheel	Damodara
15	Mr. Mehara ram	Mr. Himmat ram	Bheel	Damodara
16	Mr. Chelu ram	Mr. Akha ram	Meghwal	Dedha
17	Mr. Ganga	Mr. Kufaram	Meghwal	Dedha
18	Mr. Danda	Mr. Jagmal ram	Suthar	Dedha
19	Mr. Babu ram	Mr. Chima ram	Suthar	Dedha
20	Mr. Dwarka ram	Mr. Khuthala ram	Suthar	Dedha
21	Mr. Harji ram	Mr. Beerbal ram	Meghwal	Dedha
22	Mr. Maghre khan	Mr. Haaji khan	Mohmadon	Dedha
23	Mr. Khangar ram	Mr. Meethu ram	Bheel	Dedha
24	Mr. Damodar singh	Mr. Loon singh	Raajpoot	Dedha
25	Mr. Chaku	Mr. Poonam ram	Suthar	Dedha
26	Mr. Nijara ram	Mr. Jetha ram	Bheel	Dedha
27	Mr. Amrit laal	Mr. Saangi dan	Raajpoot	Dedha
28	Mr. Leelu singh	Mr. Ganpat singh	Raajpoot	Dedha

29	Mr. Kaan singh	Mr. Mangal singh	Raajpoot	Dedha
30	Mr. Khushab khan	Mr. Mohmmad khan	Mohmadon	Dedha

<b>Govindpura Kharif crop Demonstration</b>			
S.No.	Name of farmer	Crop	Variety of crop
1	Magaram	Moth bean	Jadiya
2	Dhuda ram	Moth bean	Jadiya
3	Mohan ram	Pearl millet	GHB 538
4	Pukha ram	Moth bean	GHB 538
5	Pabu ram	Gwar	RGM
6	Meh ram	Moth bean	RGM/RGC
7	Ummed ram	Moth bean	RGM/RGC
8	Devaram	Gwar	RGM
9	Beeram ram	Gwar	RGM
10	Deeparam	Pearl millet	2 Varieties
11	Gena ram	Pearl millet	2 Varieties
12	Shiv prakash	Pearl millet	RAJ171
13	Dalu ram	Gwar	RGM
14	Sohan ram	Pearl millet	HHB67
15	Kana ram	Gwar	RGM



RESEARCH  
PROGRAM ON  
Dryland Systems

The CGIAR Research Program on Dryland Systems aims to improve the lives of 1.6 billion people and mitigate land and resource degradation in 3 billion hectares covering the world's dry areas.

Dryland Systems engages in integrated agricultural systems research to address key socioeconomic and biophysical constraints that affect food security, equitable and sustainable land and natural resource management, and the livelihoods of poor and marginalized dryland communities. The program unifies eight CGIAR Centers and uses unique partnership platforms to bind together scientific research results with the skills and capacities of national agricultural research systems (NARS), advanced research institutes (ARIs), non-governmental and civil society organizations, the private sector, and other actors to test and develop practical innovative solutions for rural dryland communities.

The program is led by the International Center for Agricultural Research in the Dry Areas (ICARDA), a member of the CGIAR Consortium. CGIAR is a global agriculture research partnership for a food secure future.

For more information, please visit  
[drylandsystems.cgiar.org](http://drylandsystems.cgiar.org)

Led by:



In partnership with:

