

Rice, Farmer, and Water:

Highlights from the 2011-2012 Rice-Based Farm Household Survey

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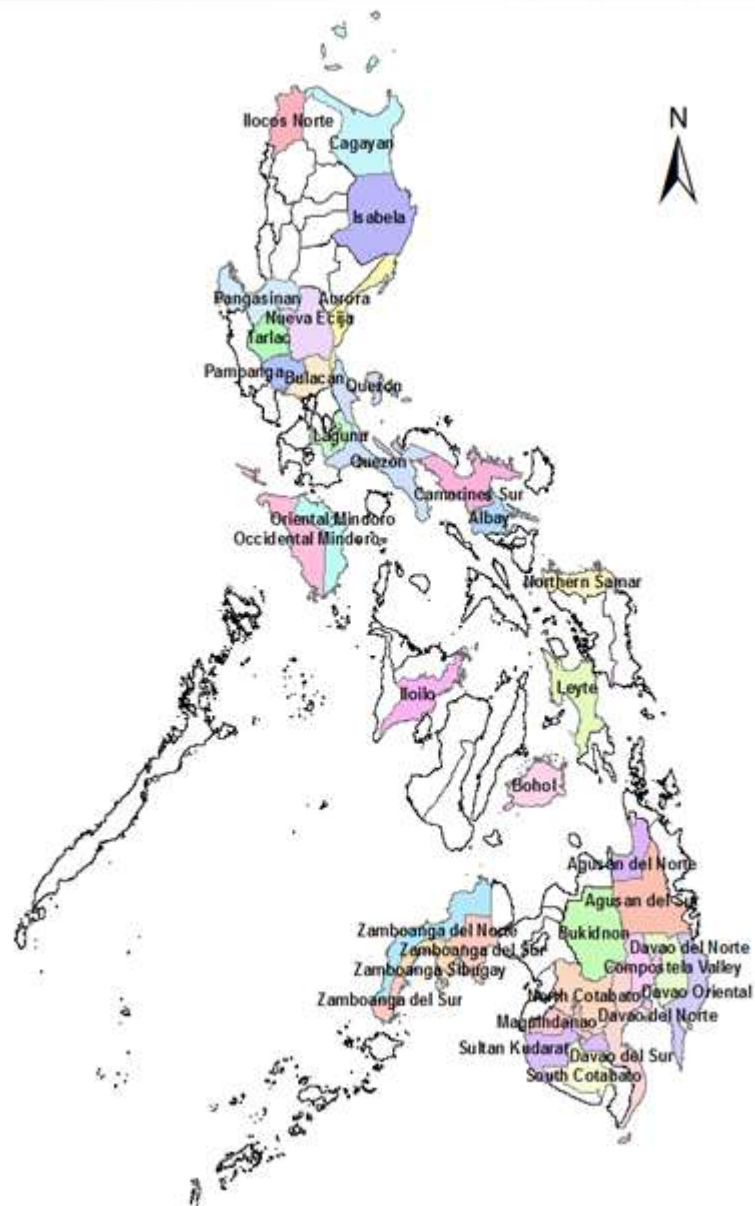
Rationale

- There is distinct a characteristic among irrigated and non-irrigated farmers
- The presentation will provide additional information between farmers and farming in by their source of water

Data Source: RBFHS 2011 WS and 2012 DS

- 2011 WS – covers July to December 2011 harvest
- 2012 DS – covers January to June 2012 harvest
- Survey is composed of 33 provinces with 2,500 respondents

Sample provinces:



■ Ilocos Norte	■ Leyte
■ Pangasinan	■ Northern Samar
■ Cagayan	■ Zamboanga del Norte
■ Isabela	■ Zamboanga del Sur
■ Bulacan	■ Zamboanga Sibugay
■ Nueva Ecija	■ Bukidnon
■ Pampanga	■ Compostela Valley
■ Tarlac	■ Davao del Norte
■ Aurora	■ Davao Oriental
■ Laguna	■ Davao del Sur
■ Quezon	■ South Cotabato
■ Mindoro Occidental	■ North Cotabato
■ Mindoro Oriental	■ Sultan Kudarat
■ Albay	■ Maguindanao
■ Camarines Sur	■ Agusan del Norte
■ Iloilo	■ Agusan del Sur
■ Bohol	

Data Source: RBFHS 2011 WS and 2012 DS

Sample size

Ecosystem	2011 WS	2012 DS
All	2,500	2,500
Irrigated	1,756	1,829
Rainfed	744	671

Village ecosystem classification

- Irrigated = 50% of rice area have irrigation
- Non-irrigated area = less than 50% of rice area have irrigation

Data Source: RBFHS 2011 WS and 2012 DS

For analysis

Source of water	2011 WS	2012 DS
natural irrigation	362	369
NIS/CIS	1165	1094
rain	553	415
SWIP/SFR/STW/OWDW/DP	319	174
Grand Total	2399	2052

- Composition of sample by water source
- Actual source of water of the farmers was used in analyzing the data
- Percentages, frequency, graphs, averages, and cross-tabulations were used in presenting the data

RESULTS

Access to training and membership in organization

Items	All	Irrigated	Rainfed
Attendance in Trainings/Seminars (%)			
Attended	41	45	29
Not-attended	59	55	71
Membership in Farmer Organizations (%)			
Member	51	56	35
Non-member	49	44	65

- Farmers with irrigation are better-off in terms of access to training
- They are also more likely to join in organizations

Income by water source

Sources of water	Total household income (PhP)	Total Rice income (PhP)
natural irrigation	155,722	88,728
NIS/CIS	231,695	152,903
rain	174,479	83,638
SWIP/SFR/STW/OWDW/DP	200,287	104,529

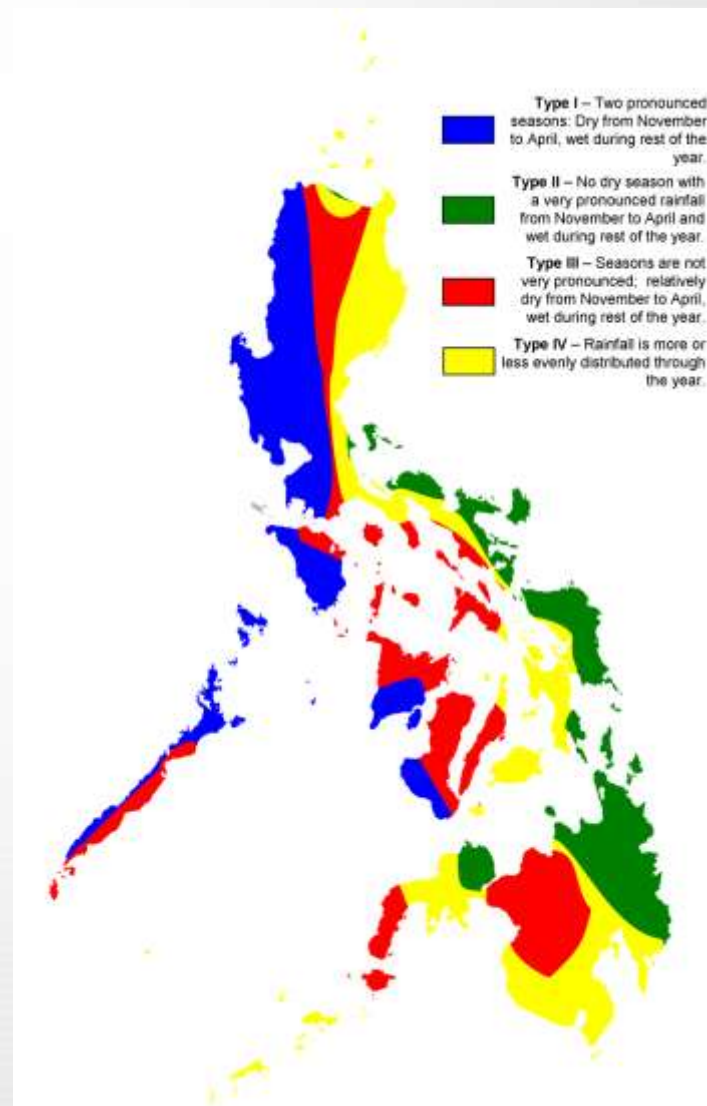
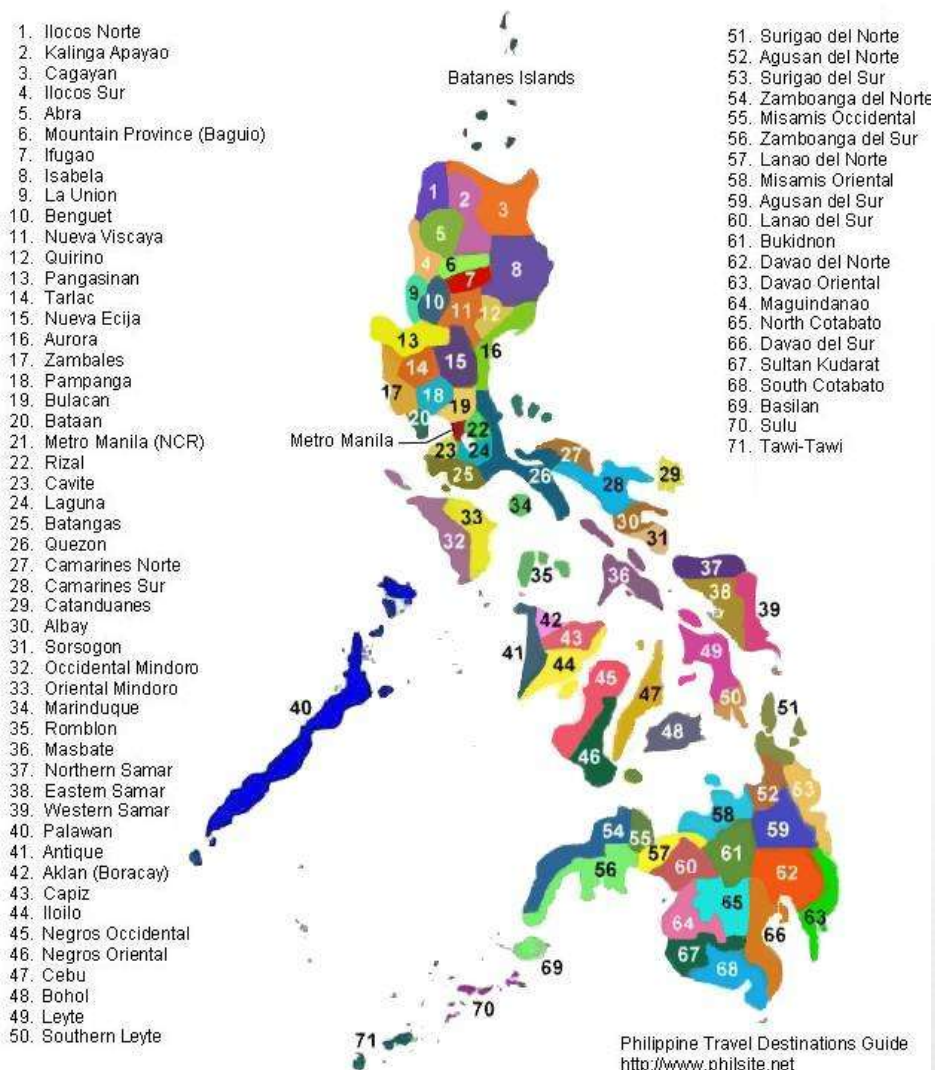
n=2,332

Income by water source

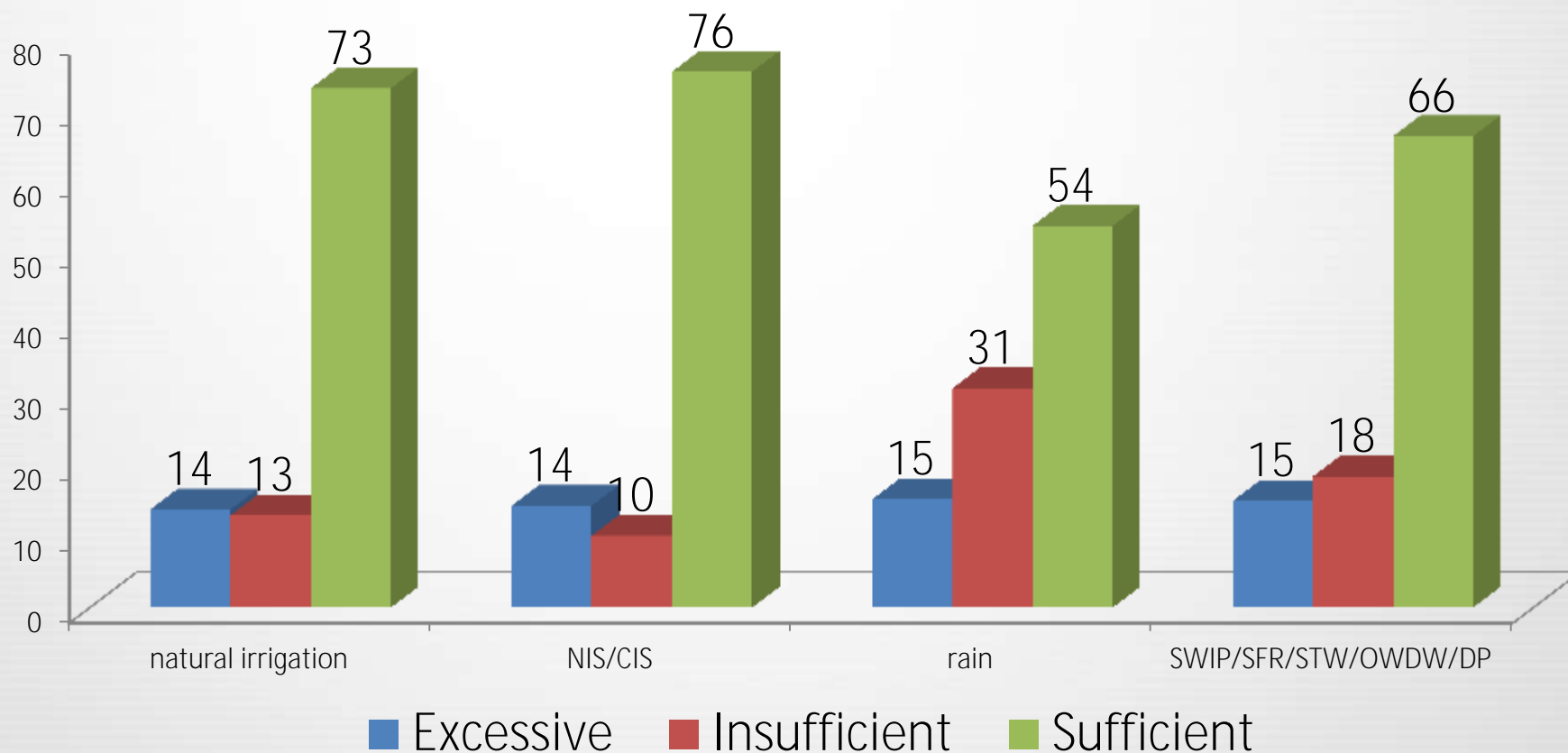
Sources of water	% of HH income from rice
natural irrigation	57
NIS/CIS	66
rain	48
SWIP/SFR/STW/OWDW/DP	52

n=2,332

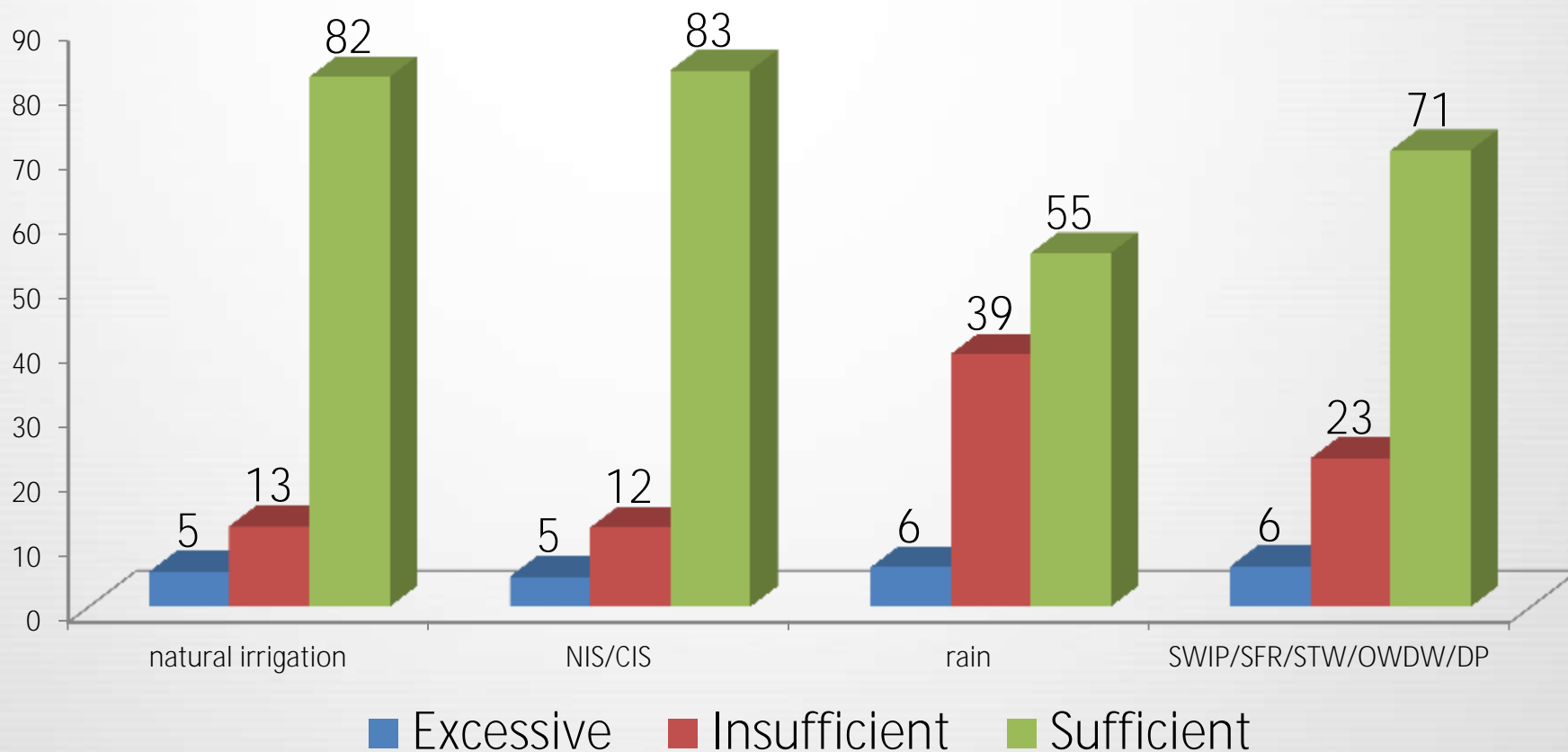
- Farmers with source of water as rice has the least income from rice



Farmers' perception of water availability by source, 2011 WS



Farmers' perception of water availability by source, 2012 DS



Yield by water source

Source of water	2011 WS	2012 DS
natural irrigation	3,330.54	3,691.15
NIS/CIS	4,121.06	4,761.55
rain	2,964.86	2,840.69
SWIP/SFR/STW/OWDW/DP	3,650.73	4,076.69

- Farmers with NIS/CIS as source of water have the highest yield in WS and DS

Awareness and adoption technology

Source of water	Intermittent irrigation	
	Aware	Adopt among aware
natural irrigation	54	64
NIS/CIS	71	73
rain	38	23
SWIP/SFR/STW/OWDW/DP	48	47

Awareness and adoption technology

Source of water	AWD	
	Aware	Adopt among aware
natural irrigation	34	59
NIS/CIS	48	54
rain	27	42
SWIP/SFR/STW/OWDW/DP	34	27

RESULTS

Government services availed (July-December 2011)	All ecosystem (n=2446)*	Irrigated (n=1876)	Rainfed (n=570)
		Percent of farmers	
None	49	45	59
Seed subsidy	29	29	26
Irrigation facilities	18	24	0.9
Trainings	13	13	10
Fertilizer subsidy	7	7	6
Dryer	3	3	4.6
Crop insurance	2	2	0.2
Credit	1	1	0.4
Machinery	1	1	0.4
Others	2	1	3
No response	1	2	1

Note: Respondents provided multiple answers so the sum of percentages exceeded 100.

*This excludes farmers who temporarily stopped farming (n=54)

RESULTS

Government services wanted to avail by farmers	All ecosystem (n=2500)	Irrigated (n=1905)	Rainfed (n=595)
	Percent of farmers		
Seed subsidy/free	65	65	66
Fertilizer subsidy/free	58	59	53
Capital/farm financing/financial assistance with minimal interest	23	22	24
Irrigation facilities	19	14	35
Machinery	16	15	21
Credit	14	16	9
Trainings/seminar/information drive about farming and farm management	14	14	14
Affordable input prices/inputs price control/subsidized inputs	13	15	10
Palay price regulation/high price of palay/market support	13	14	7
Pesticide(chemical) subsidy/free	10	11	9