AWD Water Management for Irrigated Rice Project
IRRI-SPIA-NIA

Place: _____ Date: _____ Interviewer: _____ Record No:_____

I. GENERAL INFORMATION

1. Name of Farmer: _____ 2. TSA code: _____ 3. Lateral: _____ IA:_____
4. Home address: _____ 5. Cellphone Number: _____
6. Location of the farm: Purok: _____ Barangay _____ Municipality _____
   Province _____ 7. Years in rice farming? _____ Years as member of IA? _____

A. Household Profile

Household member	Age (years)	Sex[1]	Civil Status[2]	Years in school	Income Source			
					Primary	Amount/ month (P)	Secondary	Amount/ month(P)
Head								
Spouse								

[1] Sex: M=male F=female [2] Status: S=single M=married W=widow/widower P=separated O=others,specify_____

II. Agricultural Land Profile

A. Land Profile

Parcel Number	Parcel Size (ha)	Dry season rice crop (Nov. 2015 – Apr. 2016)			Soil Type (Code C)	Topo-graphy (Code D)	Tenure			Which is the main : 1= main parcel
		Variety	Irrig.Water Source (Code A)	Power Source for irrigation (Code B)			Type (Code E)	Arrangement	Amount paid (pesos) if any	

CodeA : Irrig. Water Source: 1=canal 2=private pond(single ownership) 3=private pond (joint ownership) 4=river 5=spring 6=rain 7=others(specify) _____
Code B: Irrig. Power Source 1=gravity 2= pump (single owner) 3= pump (joint ownership) 4=rainfed
Code C: Soil type 1=sandy 2=clay 3=sandy Loam 4=clay Loam 5=silt 6=others (specify)_____
Code D: Topography 1=flat 2=slightly rolling 3=rolling
Code E: Tenure status 1=Owner 2=Share tenant 3=Lease (fixed payment cash) 4=Lease (fixed payment/in-kind) 5=CLT 6=Mortgaged 7=Others(specify)_____

B. For the main parcel, did you use subsidized inputs (seeds, fert, etc) provided by government?

1= Yes 0 = No

If yes, what are these and the cost of the inputs: _____

C. Distance of the main parcel from the turn-out? _____ meters

D. Distance of the farm (in km) from ? Town Proper _____ nearest road _____ market _____ extension office _____

Input market _____

III. Ownership of Water Sources

A. Do you own the following (only for agricultural production, do not include those for domestic consumption)

Water Sources	Location (Code A)	Usage in the last dry season (No)	Status Code C	Year established
Pump				
Pond				
Well				

Code A: Location
1= in TSA area
2=outside TSA area
Code B: Status
1=active
2=inactive

IV. Rice Production System (main parcel, last dry season Nov. 2015 – Apr. 2016):

Area Planted _____(ha) Parcel No. _____

A. Crop Establishment (Main parcel)

ITEM	Transplanted Rice	Pre-germinated Broadcasted
Date of crop establishment		
Rice variety 1		
Rice variety 2		
Amount of seeds used: variety 1		
Amount of seeds used: variety 2		
Price of seeds: Variety 1		
Price of seeds: Variety 2		
Source of seeds: Variety 1		
Source of seeds: Variety 2		
Age of seedlings		
Number of seedlings per hill		
Transplant random or square		
If square spacing (cm x cm)		

B. Labor input for Land Preparation and Crop Establishment (Main Parcel).

Activity	Date	Source of Power (Code A)	Type Code B	Rental (Peso)	Fuel and oil cost (Peso)	Labor Input							Food Cost (Peso) /day/all
						Family		Exchange		Hired			
						# of persons	Hours worked/ person	# of persons	Hours worked/ person	# of persons	Hours worked/ person	Wage /day/person	
Land Preparation													
Cleaning/ repair of dikes													
Seedbed preparation													
Plowing1													
Plowing2													
Harrowing1													
Harrowing2													
Rotavating													
Levelling													
Crop Establishment													
Pulling/bundling of seeds													
Hauling of seedlings													
Transplanting/Sowing													
Thinning/gap filling													
Others (Specify)													

Code A: Source of power 1= tractor/machine 2= animal 3= manual 4= others (specify)
Code B: Type 1= owned 2= rented 3= borrowed

D. Fertilizer and Pesticides applications (Main Parcel)

1. Chemical Fertilizer Application (with associated labor)

Date of appl'n	Soil condition Code A	If with standing water, depth of water (cm)	Brand	Composition			Qty applied	Unit	Cost/ unit	Labor Input							Food Cost (peso/day/all)
										Family		Exchange		Hired			
				% N	$\%P_2O_5$	$\%K_2O$				# of persons	Hrs worked/ person	# of persons	Hrs worked /person	# of persons	Hrs worked/ person	Wage/ day/person	

Code A: Soil condition 1= dry 2= wet 3= standing water

2. Manure application (with associated labor)

Date of Appl'n	Soil condition (Code A)	In case of standing water, depth of water (cm)	Type[b]	No. of bags	Kg./ bag	Cost per bag (Peso)	Labor Input							Food cost (Peso/day/all)
							Family		Exchange		Hired			
							# of persons	Hrs worked/ person	# of persons	Hrs worked/ person	# of persons	Hrs worked/ person	Wage/day /person	

Code A: Soil condition: 1=dry 2= wet 3= standing water

[b]Type: 1= Green 2=Animal 3= Human 4= Others (specify)

3. Manual/Mechanical weed control (with associated labor)

Operation date	Method of control (Code A)	Labor Input							
		Family		Exchange		Hired			
		# of persons	Hrs worked/person	# of persons	Hrs worked/person	# of persons	Hrs worked/person	Wage/day/person	Food cost (Peso/day/all)

Code A: Method of control: 1=Hand weeding 2=Rotary weeder 3=Improvised wooden weeder 4=Others (specify)

4. Herbicide Application (with associated labor)

Date of Application	Brand	Percent AI*	Amount applied	Unit	Cost/ unit	Labor Input							Food Cost (Peso/day/all)
						Family		Exchange		Hired			
						# of persons	Hrs worked /person	# of persons	Hrs worked/ person	# of persons	Hrs worked/ person	Wage/day /person	

*AI=Active Ingredient

5. Insecticide/Molluscicide/Rodenticide application (with associated labor)

Application date	Brand	Percent AI*	Amount applied	Unit	Cost/ unit (Peso)	Labor Input							Food Cost (Peso/day /all)
						Family		Exchange		Hired			
						# of persons	Hrs worked/ person	# of persons	Hrs worked/ person	# of persons	Hrs worked/ person	Wage/day/person	

*AI=Active Ingredient

5.1 Do you have problems with rats in your ricefield? Yes _____ No _____

5.2 If yes, does it affect your yield? Yes _____ No _____

5.3 How much do you think is lost in your production due to rats? _____kg.

E. Extension Services

1. Where do you get technical assistance in rice farming? ____ Ag. technician; ___ Input dealer; ___ Others (specify): _____

If from ag. technician, how many times did you get assistance in the last cropping? _____

2. Have you attended ag. production lectures or training on rice? ___Yes ___ No. If yes, how many in the last 3 years? _____

3. Have you attended lectures or training on irrigation in the last 3 years? ___ Yes ___ No. If yes, fill-up the table below:

Title of Training	Conducted by:	Year	Topics discussed	Duration

F. Credit

1. Did the farmer borrow money last cropping season (dry season, 2015-2016)? ___ Yes ; ____ No *If YES, fill up the table below:*

Source (Code A)	Date Borrowed	Amount (Pesos)	Interest Rate/yr	Collateral/Requirements	Maturity	Distance from farm (km)

A Source: 1=Banks 2= Association 3= Cooperative 4=Other farmers/friends 5=others, specify

2. Did you buy crop insurance last season? _____ Yes; _____ No. From whom? _____ Premuim Paid _____

V. Irrigation activities

1. How often do you irrigate your field in the dry season? ___ Once a week; ____ once every 2 weeks; Others, specify _____

2. How many times do you irrigate for the whole dry season cropping? _____

Source: _____Gravity/NIA; _____ Deep well pump; ____ Shallow tubewell; _____ Pumped from river/canal; _____ Rainfall; Others, specify _____

3. How do you know if you need to irrigate? _____

4. Do you allow the field to be without standing water? ____ Yes; ____ No. If yes , for how many days? _____

5. Have you utilized strategies to save water? ____ Yes; ____ No. If yes, what are these? _____

6. Do you always experience water problems (shortage) during the dry season? ___ Yes; ___ No. Last cropping season?_____(Yes/No)

7. Who decides on the irrigation schedule? _____ Farmer; _____Association; ____ NIA; Others, specify _____

8. Do you experience water conflicts in your area? ____ Yes; ____ No. Nature of conflict: _____

How was the conflict resolved? _____

9. Do you experience water theft in your area? _____ Yes; _____ No.

A. Ask the farmer on his irrigation activities during the last dry season (2015-2016) rice crop for the main parcel only.

Operation /activities	Date of water application	Condition of soil before irrigation event (Code A)	In case of standing water, depth of water before irrigation event (cm)	Depth of water (cm) applied after irrigation event	Duration of water application (hrs)	Water source (code B)	Labor source (Code C)	No. of hours Worked	If hired, wage/day /person	Other costs
Seedbed preparation										
Land Preparation										
Transplanting/sowing										
Crop growth period (DAP)										
a.										
b.										
c.										
d.										
f.										
g.										
Flowering										
Other, specify										

Code A: 1=dry 2=wet 3= standing
Code B: 1= canal/NIA 2= Pump 3= pond 4= river (pumped) 6= drainage 7= others, specify

B. Irrigation fee paid to NIA last dry season crop (Nov 2015-Apr 2016) for the main parcel. _____ (If farmers paid total for all his parcels, calculate the fee for the main parcel only). Irrigation fee paid to NIA in the last 3 years (dry season): _____ 2014-2015; _____ 2013-14; _____ 2012-13.

C. Knowledge, Attitudes and Perceptions. Ask the farmer if the statement is **TRUE or FALSE**. IF the given answer is Agree/Disagree, ask **why**. IF the farmer's answer is NO COMMMENT, proceed to the next statement. Put a check (√) on every answer.

Statement	Knowledge and Attitudes			Why/Remarks
	1= Agreee	2= Disagree	3= No comment	
1. It is bad for the plants if the paddy field is allowed to become dry for a week.				
2. Water is the food of the plants.				
3. Allowing the paddy field to alternately be flooded (wet) and dried at tillering stage results in more tillers and panicles.				
4. Allowing the paddy field to alternately be flooded (wet) and dried at tillering stage minimizes lodging problems.				
5. Keeping low water level at tillering stage will result in more tillers and panicles.				
6. Permanently flooding the rice field until 1-2 weeks before harvest results in higher yield.				
7. More weeds will grow if the field is not continuously flooded.				
8. Water helps the rice plant to use soil nutrient efficiently.				
9. Water depth should be more than 5 cm every irrigation time.				
10. The more water the better for the plants.				
11. Less water can hurt the crop.				
12. If the soil is allowed to dry for a while, the roots go deeper.				
13. Our irrigation schedule is the best for my farm.				
If disagree, how would you want your irrigation schedule to be?				

D. Contribution to irrigation management (Nov 2015- Apr 2016)

Activity	Way of contribution (Code A)	Labor contribution		Monetary contribution (total amount in peso), include penalty payment in case of absence
		Number of persons	Hours worked/person	
Main canal cleaning				
Lateral cleaning				
MFD cleaning				
TSA meeting				
IA meeting				
Irrigation monitoring				

Code A:
1=labor
2=money (include penalty payment)
3=both

VI. Harvesting and Threshing (Main Parcel)

A. Total gross paddy production in the last dry season _____ cavans (wet) _____ cavans (dry)
_____ kg per cavan (wet) _____ kg per cavan (dry)

B. Price of paddy _____ Price per kg (wet) _____ price per kg (dry)

C. Distribution of production (cav.): Landlord share_____ seeds _____ home consumption _____ Irrig.payment _____
Payment to creditors _____

D. When was crop harvested (starting date of harvesting)? _____

E. Was this years harvest above average, below average, or normal? _____
If not normal, why? _____

F. Paddy production in the last 2 years dry seasons (cav. dry): (2014 -2015) _____ ; (2013-2014) _____

G. Labor input for harvesting/threshing (Main Parcel)

Activity	Date	Source of power (Code A)	Type[2] (Code B)	Rental total cost (Peso)	Fuel and oil cost (Peso)	Labor Input							Food/ Other Cost
						Family		Exchange		Hired			
						# of persons	Hrs worked /person	# of persons	Hrs worked /person	# of persons	Hrs worked /person	Wage/day/person (specify other arrangements)	
Harvesting													
Threshing													
Hauling1 [1/]													
Hauling2 [2/]													
Drying (solar)													
Drying (mechanical)													
Others specify													

Code A: 1= tractor/machine, 2= animal 3= thresher , 4= manual, 5=others (specify) Code B: 1= owned 2= rented (i.e. with payment) 3= borrowed(i.e. without payment)

[1/] Hauling1 = hauling of harvested palay stalks from field to threshing site

[2]Hauling2=hauling of threshed palay in sacks from threshing site either to farmer's house or to dryer.

VII. INCOME SOURCES

Income source	**Income**
Rice (total for the farm last cropping)	_____
Sale of other crops/week	_____
Sale of poultry/week	_____
Sale of livestock (specify frequency)	_____
OFW remittances (per month)	_____
Domestic remit. (family/friends/P/month)	_____
Others (specify)	_____
_____	_____

VIII. GPS COORDINATES (Main Parcel)

(one side of the parcel)

N _____

E _____

Alt _____