

### Farm Operations Monitoring Manual

To Support Monitoring and Evaluation of Good Practice Options for Climate Change Adaptation in Agriculture

Theory, Monitoring forms and Instructions

Technically Cleared For Final Reading/Editing and Presswork

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# PART I THEORETICAL FOUNDATION

### I.I Introduction

Impacts of climate change translate to increased production uncertainties and risks, which adversely affect the income and food security of vulnerable farming households. As observed in the field, a farmer's response to climate change is largely dependent on his available resources or assets. In most cases, he/she combines natural resources such as forest, land and water with his assets such as labor and capital goods. The type of asset owned by the farmer provides the loci of options available to him and establishes the farmer's relationship with his/ her farming environment. Technological intervention is also important in helping farmers adapt although adaptation response also differs according to the socio-economic capability of the farmer. It follows that observing and recording these responses is one of the many tools in evaluating how farming households and systems respond to climate change related events. A systematic monitoring of their farm activities is therefore necessary to help articulate their vulnerabilities and determine how their current assets and activities (and their use) can increase their resilience. Monitoring and Evaluation tools provide a range of data sets that help accelerate knowledge in defining and designing "climate-resilient" development efforts.

The MDG-F 1656 Outcome 3.1 project was implemented in 2009 to 2011 and was designed as an intervention to enhance and innovate existing conventional farmers practices (CFP) by introducing scientifically released technologies (SRT) through pilot-tested field demonstrations. The field demonstrations combined CCA options that cover a range of good practices (GP) and technologies for crop and livestock production, agro-forestry, and soil and water management.

The project supported farmers in Benguet and Ifugao of the Cordillera Administrative Region (CAR) of the Northern Philippines. The eight chosen pilot municipalities represent the high, medium and low elevation agro-ecological zones in the region. Manual objectives and target users.

This farm operations manual is an annex of the project report entitled "A Framework for Monitoring and Evaluation of Good Practice Climate Change Adaptation Options in Agriculture," which is one of the self-standing reports of MDG-F 1656. It aims to facilitate reliable and comprehensive data collection which will be used as basis in analyzing the impact, effectiveness, sustainability and up-scaling potential of good practice options for climate change adaptation.

This manual aims to facilitate proper collection of appropriate data at the farm household level through a simplified recording system that is time and cost efficient. It endeavors to educate a wide-range of users on various economic principles, including farm operations costs and income. It attempts to guide field coordinators and local working groups in assessing the readiness of farmer cooperators to implement, sustain and replicate good practice options for climate change adaptation through a set of monitoring forms and clear instructions.

The target users of the manual were the farmer cooperators and members of the technical support team such as field coordinators, the Municipal Agricultural Officers, and Agricultural Technicians (AT's). The cooperators were primarily expected to fill up the forms and the technical support team's role was to insure the integrity of the data entered into the forms.

### I.2 The Farm Household Model

Farming households have always been a point of interest in development projects. The farming household exemplifies intra-household activities by being both producers and consumers. Farm household production and consumption decisions are linked because the deciding entity (the farmer) is both a producer, who must decide on the allocation of labor and other farm inputs to crop and livestock production and even agro-forestry activities, and a consumer, who must choose the allocation of income from farm profit and labor sales for household consumption.

Farm household models are useful tools to study household-specific economic costs that shape the impact of exogenous policy in rural areas (Taylor and Adelman, 2002). In a typical farming household, the computed profit may not be equated to "farm profit" because implicit costs are not yet accounted for. The misrepresentation of the profit as the farm profit is the result of not accounting for the implicit (hidden) costs incurred by the farm. The household implicitly sells economic resources to the farm through: (1) family owned labor employed in the farm; (2) utilizing their land and other equipment in the farm; and (3) providing entrepreneurial skills to ensure that the farm maximizes output with the least cost possible. This relationship is shown in figure 1.

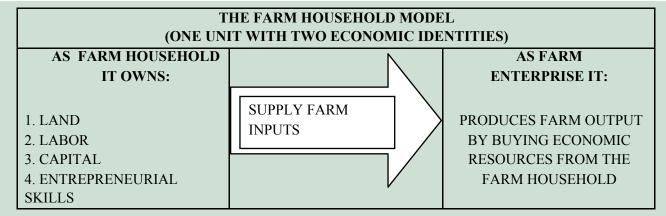


Figure 1: The Farm Household as Supplier of Factors of Production to the Farm Enterprise

As shown in figure 2, the Farm Enterprise must recognize the factors of production or farm inputs supplied by the farm household. There is an implied cost with the employment or utilization of the farm inputs supplied by the farm household. The cost must be accounted in determining the economic effectiveness and efficiency of the farm enterprise. In

this case, there is a need to recognize these costs as part of the operations of the farm enterprise. Since there is no actual cash transaction, it is implied that cash transaction would have occurred if the farm household does not own the farm inputs (i.e. the costs must be accounted as implicit costs). Moreover, even if the farm inputs are supplied by the farm household these are not assumed to be free.

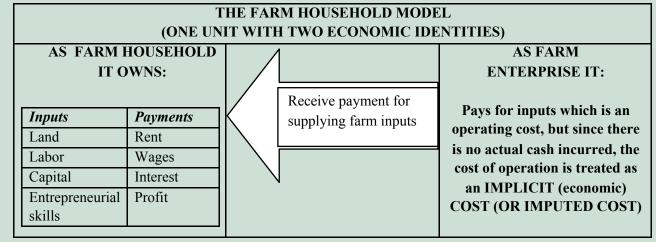


Figure 2: The Farm Enterprise as Demander of Farm Inputs from the Farm Household

If the farm inputs are purchased by the farm enterprise outside of the farm household, payments are made comprising the operating cost of the farm enterprise as shown in figure 3.

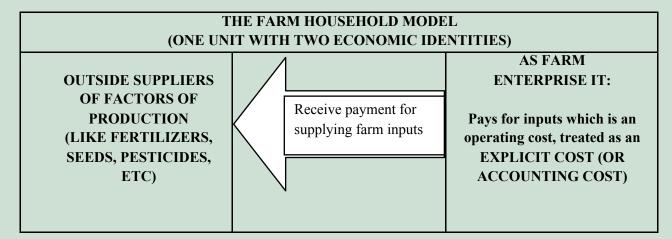


Figure 3: The Farm Enterprise as Demander of Farm Inputs from Other Suppliers

The farm household model is considered a useful concept to determine costs-benefits of implementing good practice options for climate change adaptation that were introduced to the farmer through external initiatives (e.g. multi-lateral development cooperation). When demonstration sites were setup, the cooperators were provided with

farm subsidies. These too must be accounted into the profit concept. By accounting for subsidies as an additional implicit cost of the farm enterprise, the impact of the CCA options to the profit and cost per unit of output can be analyzed. This is shown in Figure 4.

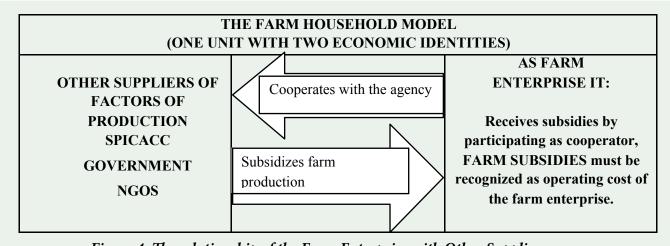


Figure 4: The relationship of the Farm Enterprise with Other Suppliers

The farm household owns factors of production, which it supplies to the farm enterprise. The farm enterprise is managed by an entrepreneur called the farmer. He makes decisions and choices on the best way to combine economic resources to maximize farm yields or output. He also negotiates with traders and ensures that all farm outputs are sold at the shortest possible time and at the highest price possible. The entrepreneur also deals with a variety of uncertainties and risks. Sound decision-making and planning therefore translate to higher output and profit. The value of an entrepreneur's skill is also a cost to the farm enterprise and is likewise accounted for.

The farm household model thus provides a basis from which project implementers and policy makers draw their economic intuition on the role of the farm household as a producer. Implicit costs and subsidies are real costs and have to be considered when analyzing the economic benefits, impacts and effectiveness of the farm enterprise.

### I.3 Economic and Conceptual Basis for Inputed Costs

Some costs may be based only on estimates and farmers may not provide a corresponding value largely because there was no cash transaction involved. The absence of a physical market and the absence of actual exchange of money between two parties, such as buyer-seller, landlord-tenant, lessor-leasee, or employer-employee may lead to the undervaluation of majority of the farm costs. Farmers may realize larger accounting profits because they failed to account for the implicit or hidden costs incurred by the farm as an enterprise. The costs accounted for by the farmer may not also reflect true costs, particularly when only those cash transactions are the ones recorded as part of the farm enterprise operating costs.

Farm households may also misconstrue the profit as their income from the farm enterprise. In reality, the farm household may have failed to account for the payment of other factors of production that they own such as land, farm equipment, storage fees, and wage of family labor which are also sources of the farm household income.

The concept of economic profit is different from accounting profit, the former accounts for all the opportunity cost of economic resources, which have alternative uses if they have not been used by the farm enterprise. Therefore their alternative use can be used to impute an economic value.

Imputed costs are estimated or assigned costs to factors of production when there are cash payments made by the farm enterprise for such factors

The imputed costs are usually the IMPLICIT COSTS incurred in the operation of the farm enterprise.

Implicit Costs are costs that are inherent to the operations of the farm enterprise. They are hidden costs because there is no actual cash disbursement or payment made by the farm enterprise to the farm household.

**EXAMPLE 1:** Estimating or assigning a "rent expense" for the land owned by the farm households is an example of implicit cost.

The imputed value of "rent expense" is the prevailing rent agreement in the locality.

A clear distinction must be made between IMPLICIT AND EXPLICIT COST.

<u>Explicit cost</u> are also referred to as accounting expenses or out of pocket expenses. These refer to cash outlay incurred by the farm enterprise.

**EXAMPLE2:** Cash payment for purchases of fertilizers, materials, paying hired labor etc.

There are techniques of estimating or assigning costs or values factors of production supplied by the farm household. The following are helpful concepts:

**I.Rent** - as defined in economics is the payment for land.

To prevent costing problems, an objective way of estimating cost is to use surrogate prices for the economic resource in use in the farm. For instance, a piece of land owned by a farmer may be

considered by the farmer as free but in reality is not free. Because had the farmer not owned land, he would be renting one. Hence, the rent must be valued using the prevailing rent agreements in the locality.

In Paoay, Atok, Benguet for instance, the prevailing rent agreement is Php8.00-Php12.00 per square meter per year.

Rent = Prevailing rent in the area \* number of square meters

**2. Interest** - as defined in economics refers to the payment of capital.

A layman's initial impression of interest is a payment for money borrowed from a lender, who could be a person or a financial institution. The farmer, as owner of the farm enterprise, uses money to buy farm inputs such as fertilizers, farm equipment, greenhouse construction materials, water tanks, and others. Often, the cost of fertilizers and other materials are accounted as expense by the farmer, but rarely, do farmers account for the cost of using farm equipment, greenhouse and water tanks.

Farm equipment and infrastructure are part of the physical capital of the farm enterprise. They have a useful life and have to be replaced once they have outlived it. Every usage of the farm equipment and infrastructure results into "wear and tear", i.e.reduces the value of the farm equipment and infrastructure. Thus, the used up portion of the farm equipment and infrastructure must be recognized as an expense. In accounting practice it is recognized as depreciation expense or capital consumption allowance.

DEPRECIATION COST = Purchase Price ÷
Useful life of the Equipment

The depreciation cost is a proxy to determine the payments for capital. In accounting, depreciation is just a paper expense concept, but in economic analysis, depreciation is treated as payment for the use of capital.

#### 3. Wage of own-labor and family workers

In an agricultural household model, labor supply comes from family owned labor. Often, family labor is not accounted when estimating farm profits.

Wage = Prevailing wage rate the area\* the number of days worked

**4. Accounting Profit** – is the difference between revenue and expenses. This can be computed as follows:

Accounting Profit = Sales – Explicit Costs

#### 5. Economic profit

The true test of the viability of an enterprise is its ability to pay all economic resources that were used to produce the final output. An economic profit of "zero" indicates that the farm enterprise was able to meet all economic obligations to the owners of the factors of production that was used by the farm enterprise.

Profit also has various manifestations. The farmer as a strategist and manager/owner, chooses options that he may see fit or appropriate to attain maximum profit. Profit then is seen as payment for taking-risks in choosing options (e.g. opting to work somewhere else). The opportunity cost of choosing to be a farmer versus an alternative choice is the value of the entrepreneurial skill. Economic profit is the difference between accounting profit and implicit cost.

Economic Profit = (Gross Sales – Explicit
Costs) – Implicit cost

**6. Subsidies** – grants, donations or financial assistance of the government to the farm enterprise.

For example, the farm enterprise received subsidies from the MDG-F 1656 Outcome 3.1 project to implement good practice options for climate change adaptation.

In evaluating the good practice climate change adaptation options for economic efficiency and effectiveness, data are needed as further inputs to assess impact and sustainability.

### RELATIONSHIP OF THE FORMS WITH OTHER PROJECTS DOCUMENTS

The data gathered from the farmer-cooperator using this manual were used to cross-reference other data needs of the project. The table below provides an overview of the different monitoring forms developed in the MDG-F 1656 Outcome 3.1 Project.

FORM NUMBER	NAME OF FORM	Importance of the form
FORM 1	Farm Asset Inventory	To determine the economic benefits, effectiveness and impact of CCA options on the profitability and income of the cooperators.
FORM 2	Farm Activity Forecast	The form shouldbe cross-referenced with the Automatic Weather Station (AWS) Report to facilitate better interpretation of localized weather data.
FORM 3	Imputed Costs	To establish implicit, hidden or non-market costs incurred as well as implicit income realized by the cooperators as a basis of determining the economic feasibility of the CCA options for up-scaling.
FORM 4	Farm Activity Costs	To establish explicit, out-of-pocket and market costs incurred by the cooperator as a basis of determining accounting feasibility and profitability.
FORM 5	Harvesting Record	To establish sales and revenues from the farm activity.
3.1 FORM 6	Problems	To serve as a support monitoring form to Form 2 and AWS Report. To document problems, concerns and issues faced by the farm cooperators.
3.1 FORM 7	Cooperator's Report	To provide a brief documentation of the problems encountered by the cooperator in the implementation of the CCA option

### PART II

### **ACCOMPLISHING THE FORMS**

Six Farm Operations Monitoring Forms were designed to help bridge the gap between "what the project aims to achieve" and "how to gather sound baseline data". The portfolio design of the M & E played an important role on how well the forms reflected the need of the project to: (I) Assess the effectiveness of the good practice options for climate change adaptation (2) Value and analyze the economic impact and effectiveness of the CCA options; (3) Identify and measure the benefits from the cooperators' indigenous practices as a conscious or unconscious response to climate change related impacts; and (4) determine the sustainability and upscaling potential of the field-tested good practice options for climate change adaptation.

## II.I INSTRUCTIONS IN ACCOMPLISHING THE FORMS FOR CROP, RICE AND LIVESTOCK PRODUCTION

This manual simplified the monitoring procedure by dividing the recording process into several forms. Most of the forms were accomplished only once a year. Other forms were accomplished during the full cycle of the farm operations.

The cooperators were primarily expected to fill up the forms and the technical support team's role was to insure the integrity of the data entered into the forms.

FORM NUMBER	NAME OF FORM	Frequency of accomplishing the form	Person responsible
1. SPICACC FORM 1	Farm Asset Inventory	Once during the project cycle FGD and Meetings	Cooperator assisted by the FC or AT during the workshop
2. SPICACC FORM 2	Farm Activity Forecast	Once during the project cycle FGD and Meetings	Cooperator assisted by the FC or AT during the workshop
3. SPICACC FORM 3	Imputed Costs	Once during the project cycle FGD and Meetings	Cooperator assisted by the FC or AT during the workshop
4. SPICACC FORM 4	Farm Activity Costs	All phases of the farm operations. Individual Recording	Cooperator
5. SPICACC FORM 5	Harvesting Record	During the harvest phase of the farm operation. Individual recording	Cooperator
6. SPICACC FORM 6	Problems	Every cycle and all phases of farm operations. FGD and meetings	Cooperator and FC
7. SPICACC FORM 7	LWG Report Forms	Monthly, Accomplished before the LWG meetings FGD	Cooperator and FC

### GENERAL INSTRUCTIONS IN FILLING-UP THE FORMS

- I. Please use a ball pen in filling up the Farm Operations Monitoring Form.
- 2. Always read the instructions in the manual and review the data needed in the form.
- 3. Accomplish and fill up the forms as regularly as possible.
- 4. Some forms need to be filled-up only once, but there are also forms that are filled to track the farm operations activity.
- 5. The cooperator is provided with a miniplanner where he/she could write important dates, problems and concerns that he/she needs to raise during regular meetings.

#### **DEFINITION OF TERMS**

For uniformity of understanding, please refer to the following definitions:

ASSETS are defined as the "farm resources" controlled by the farm enterprise from which economic benefits, such as income and profit, are expected to flow to the farm enterprise due to their usage.

LAND is defined as the "farm lot" currently used by the farm enterprise for production of farm products.

STOCKS (for crop production) are defined as those tubers, seeds, runners, cutlets, plantlets, cuttings and the like stored by the farm enterprise either from previous harvest or purchased for use in the next cropping cycle.

STOCKS (livestock) are the breeding stocks for siring animal off-springs.

FARM INPUTS INVENTORY are the remaining farm inputs which were not used in the previous cropping cycle.

LABOR are the person-days regularly employed by the farm enterprise.

CONTRACT LABOR are farm workers paid to finish a definite task at a specific period of time.

BAYANIHAN is an exchange-labor arrangement usually practiced in rice farming areas.

### PROCEDURE IN ACCOMPLISHING THE FORMS

### I. FORM I- Farm Inventory

The farm inventory is needed to account for the owned and subsidized farm resources of the household. It is a sound basis for production, cost per unit of output, income with and without the subsidy, i.e. assistance for the option.

- I. Always fill-up the necessary information such as name, age, gender, educational attainment and option code.
- 2. The option title is appended to this manual. Please refer to the Appendix A when filling up this portion.
- 3. Keep in mind that the most important information in the Asset Inventory form is how much asset is owned by the household. Thus, if there are assets from SPICACC and other agencies donated or granted to the cooperator, indicate the date under 'remarks' when the grants or donations were made. Please see example below:

			-		oring Form		
	S	PICACC F			SETS INVE	ENTORY	
			As of Fe	bruary 10,	2011		
NAME:	John Domil	os		Educatio	nal Attainn	nent: Elemen	tary
AGE:	49			OPTION	CODE:	1.1.3.1.4.1.	
GENDER:	Male			(Please re	efer to appe	endix A for the	Option Code)
		Quantity					
		quantity u		Unit of	# of use	Estimated	
ASSETS		opriate col		me as ure	in Years	Market Value	Remarks
	own	spicacc	others				
1. Farm land	200			sq meters	30		Lease
2. Tractors/Microtiller	1	1		Units	4		Donated Dec. 21, 2010
3. Farm Animals (i.e carabao)	1			Head	3		
4. Greenhouse	100			sq meters	2		
Backpack Sprayer	5	4		Units	2		Delivered October 10, 2009
6. Hose/Rainburst	20			Meters	4		
7. Hoes/Shovels etc.	5			Pieces	6		

4. It is common for farmers to stock seedlings (and others), and farm inputs that were not used during the previous cropping cycle become unused farm stocks or inputs and should be accounted for and listed in the asset inventory form. If the cooperator or farmer receives additional inputs from SPICACC or other projects and agencies, these should also be listed. Please see the example below.

12. 1 Seedlings	40	1000	piec	es	Delivered October 11, 2010
2.2 Tubers		450	piec	es	
12. 3 Runners		500	piec	es	
12. 4 Piglets		1	head	t l	
12. 5 Fingerlings		1000	Piec	es	
12. 6 Others		50	kilos	3	
3. Farm Inputs inventory bef	ore the cro	opping cycl	le		
13.1 Fertilizers					
13.1.1 Chicken Dung	30	20			Received September 11, 2010
13.1.2 14-14-14	10	24			
13. 1.3 NPK	1	4			

5. In accounting for labor requirements, account only for the family labor. The family labor must not include child workers and should include only those who are 18 years old and above. Indicate also if the family labor is seasonal but regular – meaning it is predictable during the cycle when the family member can help in the farm.

REGULAR LABOR				WAGE	Remarks
1. Own Labor - Female	1			daily	Seasonal worker
- Male	1			daily	
2. Hired Labor - Female	4			daily	
3. Hired Labor - Male	5			daily	
4. Contract		Agre	ed price		
5. Bayanihan		Agre	ed price		

### 6. Below is an example of an accomplished asset inventory form.

	SI		ORM 1-F		oring Form		
NAME			As oi re				
NAME: AGE:	John Domik 49	OS		OPTION		1.1.3.1.4.1.	tary
GENDER:	Male			(Please r		endix A for the	Option Code)
		Quantity					
		quantity u		Unit of	# of use	Es timate d	
ASSETS	appr own	opriate col spicacc	others	me as ure	in Years	Market Value	Remarks
1. Farm land	200	spicace	others	aa matara	30		Lease
Tractors/Microtiller	1			sq meters Units	4		Lease
Farm Animals (i.e carabao)     Greenhouse	100			Head	2		
				sq meters			
5. Backpack Sprayer	5			Units	2		
<ul><li>6. Hose/Rainburst</li><li>7. Hoes/Shovels etc.</li></ul>	20			Meters	4		
8. Water tank/Impoundment	100			Gallon	6		
9. Transportation	100			Unit	6		
10. Storage	40			sq meters	5		
11. Thresher	1			unit	4		
12. Pig pens	1			sq meters	4		
12. Stocks inventory for the	novt aranni	ng avala	<u> </u>	1sq meters			
				1.			d 1000 W 1 F 1:
12. 1 Seedlings	40	1000		pieces			the 1000 seedlings was delivered jan
12.2 Tubers		450		pieces			
12. 3 Runners		500		pieces			
12. 4 Piglets		1		head			
12. 5 Fingerlings		1000		Pieces			
12. 6 Others		50		kilos			
13. Farm Inputs inventory be	efore the cr	opping cyc	le				
13.1 Fertilizers							
13.1.1 Chicken Dung	30	20					
13.1.2 14-14-14	10	24					
13. 1.3 NPK	1	4					
13.1.4 Urea	5	7					
13.2 Stocks (Specify)							
13.2.1 Seedlings	450	450					
13.1.2 Tubers	500	456					
13.1.3 Runners	124	34					
13.1.4 Piglets	1	2					
13.1.5 Fingerlings	1000	3000					
13.1.6 Others							
13.3 Feeds		25					
13.4 Medicines, Vitamins		22	bottles				
13.5 Others							
REGULAR LABOR						WAGE	Remarks
1. Own Labor - Female	1					daily	
- Male	1					daily	
2. Hired Labor - Female	4					daily	
3. Hired Labor - Male	5					daily	
4. Contract			Agre	eed price			
5. Bayanihan				eed price			

#### 2. FORM 2 - Farm Activity Forecast

The Farm Activity Forecast is a pre-activity form estimating the future timetable of work in the farm. This form covers an entire year divided into months and weeks.

To fill-up the form put an "X" mark on the space pertaining to the activity and the corresponding week of the month the activity is expected to be done.

Some activities may be done twice or more than twice a year, thus, an "X" mark may be placed on several weeks for a certain activity.

Also list the title and date of trainings and seminars attended.

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	_	Janu					brua Veek		_			arch eeks		+		Apri					May /eeks		+		Jun			-		July Jeeks		+		Aug We	gust		+		tembe /eeks		+		Octobe Week		+		Nove			ember eeks	_
FARM ACTIVITY INVENTORY	1	2		4	1		veek		4	1		3	4	1		2		4	1		3		4	1	2		4	1		3		4	1	2		4	1			4	1			3 .	4	1		4	1	3	4
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Area Clearing							4	4					1	_	_		_			_	+	4	_						-	1	4						_	_	_	_				4	4	_				₩	_
2. Land Preparation																																																			
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2.1 Digging/bed preparation			-			+	+	+	-		-	-	╁	+	+	+	$\dashv$			╆	+	+	+	$\dashv$	-			┢	+	+	+	+	+			┢	╆	╆	+	+	+	+	+	+	+	-	-			$\vdash$	⊢
2.2 Hole Preparation																					_																								_						
3. Planting																																																			
							T	T					T		1					T	T	T	1						T	1	T						T		T	T				1	T						Г
Cultural Management			_			-	+	+	_		-	-	╁	+	+	_	-			╄	+	+	+	_				-	+	+	+	+				-	+	+	+	+	+	-	-	+	+	-	_			₩	-
4.1 Weeding																																																			
4.2 Watering																																																			
4.2 Watering						+	+	+				_	+	+	+	_	$\dashv$			+	+	+	+	_				H	+	+	+	+				1	+	+	+	+	+	+	+	+	$\dashv$	_					$\vdash$
4.3 Fertilizer application							+	4	_				1	+	_	_	_			1	+	4	4	_					-	+	4	4					-	_	+	_				4	4	_				₩	<u> </u>
4.4 Spraying																																																			
5. Harvesting			-			+	+	+	-			-	╁	+	+	+	$\dashv$			╆	+	+	+	+	-				+	+	+	+	-			$\vdash$	+	+	+	+	+	+	+	+	+	-	-			$\vdash$	┢
6. Post harvest																																																			
6.1 Sorting																																																			
0.1 Solding							+	+					t	+			_			+	+	$\top$	+	_				H		+	+	+					1	1	+	+				$\top$	+	_				$\vdash$	
6.2 Packing						1	1	4					1	-	+	4	4			-	+	+	4	4	-					+	+	4	4				-	-	_	+	-			+	4	4				<u> </u>	_
6.3 Hauling/Transporting																																																			
7. Marketing																																																			
						П	T	T						T	T	T				Г	T	T	T						Т	T	T	T							Т	T				T	T						
8. Trainings/Seminars							+	+					+	+	+					-	+	+	-						+	+	+	-					-	-	+	+	-	+	+	+	+	-				-	_
List the title of trainings																																																			
1																5																																			
2																6																																			
3																7																																			
4																8																																			

#### 3. FORM 3 - IMPUTED COST

Inputs pertain to contribution or participation of resources such as farmland, tractors, farm animals, and others of the like. The Imputed Cost form aims to calculate the allocated cost of farm inputs through usage. The usage is specified by checking the space where the input is applied whether in the cropping cycle, land preparation, planting, cultural management, and harvest/post marketing. To measure usage of inputs, its length or extent of use in the farm is measured through specified time measures such as days, weeks, or months.

#### EXAMPLE FOR COMPUTING IMPUTED COST FOR A TRACTOR

Example: A tractor was acquired for P10,000.00. The delivery of the tractor from display area to the farm cost P1,000.00. Then the total acquisition cost of the tractor is P11,000.00.

But note that the tractor will last for let's say 10 years. By applying the concept of the DEPRECIATION COST, the imputed cost of usage per cropping can be estimated as:

DEPRECIATION COST =  $11,000 \div 10 \text{ years} = 1,100$ ,

But since it's usage is only during certain months during the cropping cycle, this should be also computed. For example, the usage is only 4 weeks, then the imputed cost must be:

IMPUTED COST OF THE USAGE OF THE TRACTOR =  $1,100 \div 12 = 91.67$ 

The imputed cost is entered in the IMPUTED COST column as highlighted in the SPICACC FORM 3. Below is an example of an accomplished Farm Operations Monitoring Form.

When imputing cost for the hose/rain burst and the water tank and water impoundment, the imputed cost must refer to the services provided by the hose/rain burst and the water tank and water impoundment. The amount of water used must be the basis of costing.

For purposes of imputed costing, the raw water is costed at Php5.00 per drum.

#### Please put an X the corresponding column which inputs Specify are used during the following farm activity duration in Imputed Planting Cult'l Harvest/Post crppng Land days, weeks Cost **Other Inputs** cycle mgmt Marketing month, etc prep 1. Farmland Χ P2,000.00 3 months 4 weeks 2. Tractors P91.67

Х

Х

Farm Operations Monitoring Form SPICACC FORM 3-IMPUTED COSTS

### 5. Backpack Sprayer P 6. Hose/Rainburst x x P1,500.00

Х

 8. Water tank/Impoundment
 P

 9. Transportation (i.e. Trucks)
 x x
 1 month
 P750.00

Х

Х

 10. Storage
 P

 11. Thresher
 P

12. Others (Baskets, scals)
P
13. Stocks
P

#### 4. FORM 4 – FARM ACTIVITY COSTS

3. Farm Animals (i.e carabao)

4. Greenhouse

7. Hoes/Shovels etc.

Total

The Farm Activity Costs form aims to measure in monetary terms the labor and cultivating inputs such as fertilizers, pesticides, insecticides and others of the like. At the heading of the form, you may check more than one activity since some activities may be done simultaneously.

The second portion of the form pertains to the cost of labor used. Hired labor is easy to cost since actual cash payment is made. Labor cost of owner

and family members are recorded at the prevailing regional labor rate of farm laborers as specified by the Department of Labor and Employment (DOLE) or the prevailing "por dia" payment arrangement in the locality.

2 Weeks

2 months

P1,000.00

P1,000.00

Р

In costing family labor, the prevailing labor rate is Php150.00-250.00 per day depending on the arrangement of the farm worker with the farm enterprise. At Php150.00 per day the farmer is provided with meals, while farm rate of Php200.00-250.00 normally does not include meals.

Cost of farm inputs are at actual cost. Actual costs are cost of acquisition and other costs than can be directly allocated to the input. The SPICACC FORM 4 can be accomplished per operation of the farm.

An example of a fully accomplished form is shown below.

			ı	Farm Op	erations	Monito	ring For	m			
				CACC FO	RM 4-FAI	RM ACTI	VITY CO	STS			
	Date:	_	20, 2011								
	ACTIVITY (Please put an X o	n the a	ctivity)								
	Land preparation			Plantin							
	- Area preparation	X			I manage	ement					
	- Digging & bed prep		-	- wee							
	- Hole preparation	x		- wate							
					lizer app						
				- Spra	ying pest	ticide					
	•		Pl€	ease put	an X on t	he colu	mn				Remarks
			corre	espondir	ng to the	# of wo	rkers			Cost	
	Labor Costs		ir	nvolved i	in the far	m activi	ty			Incurred	
					Mandays	5			Number	per worker	
Own	Number of workers								of days		
Famil	y Member/Volunteer		1	2	3	4	5	Others			
	Male			Х					10	P2,500.00	number of hours
	Female		Х						5	P1,250.00	converted to
Hired	Labor										days.
	Male			Х					10	P2,500.00	
	Female			Х					1	P 250.00	
Contr	act				one	week 10	) worke	rs		P5,000.00	
Bayar	nihan				Specif	y durati	on and o	cost			
Tota										Р	
			=	Dlas							
	E				ase check						
	Ë		CO		ding to th			uts			
	farm Inputs purchased by Farm Households			us	ed in the f	arm activ	vity		Cost	Cost	
	Farm Inputs purchased by Households								per	Incurred	
	ll se sep				Sacks,	gallons		_	unit		
	urcl ous		-								
			5	10	15	20	25	Others			Remarks
	rtilizer (in sacks)									Р	
	Urea										
	NPK										
	14-14-14										
	others								500.00	DE 000 00	
	organic			х					500.00	P5,000.00	
	sticide(in liters)										
3.1											
3.2										P	
3.3										Р	
3.4										Р	
	rbicide									Р	
	icken Dung										
5. Ot									500.00	P500.00	transport costs
Tota	al									Р	
			$\overline{}$	Dlas					$\overline{}$		
					ase check ding to th						
	E		CO	•				uts		C+	
	Farm Inputs fror SPICACC			us	ed in the f	arm activ	vity		Cost	Cost	
	g								per	Incurred	
	AC II				Sacks,	gallons		_	unit		
	Farm Inpu SPICACC										
			5	10	15	20	25	Others	$\overline{}$	-	Remarks
	rtilizer (in sacks)									P	
	Urea		х						1,000.00	P5,000.00	
	NPK										
	14-14-14		х						400.00	P2,000.00	
	others									Р	
	organic				х					Р	
	sticide(in liters)										
3.1								30	500.00	P1,500.00	
3.2										Р	
3.3										Р	
3.4										Р	
3. He	rbicide									Р	
	icken Dung					20			50.00	P1,000.00	
5. Ot										Р	
Tota										Р	

Date   12-02, 2011						erations RM 4-FA						
And preparation   And prepar	Date:		y 10-									
- Area preparation	ACTIVITY (Ple	ase put an X o	n the a	ctivity)								
- Hole preparation   Secretary   Secretary	Land prepa	aration		_	Plantin	g						
					Cultura	l manage	ement					
	- Digging	& bed prep	Х		- wee	ding						
Please put an X on the collumn   Corresponding to the # of workers involved in the farm activity   Number of workers   Numbe	- Hole pre	eparation	х		- wate	ering						
Please put an X on the column   Corresponding to the # of workers   Incurred   Please put an X on the column   Corresponding to the # of workers   Incurred   Please worker   Incurred   Incur					- Ferti	ilizer app	lication					
Labor Costs   Cost involved in the farm activity   Number of days					- Spra	ying pes	ticide					
Labor Costs   Cost involved in the farm activity   Number of days												
Labor Costs   Cost involved in the farm activity   Number of days				Ple	ease nut	an X on i	he colu	mn				Remarks
Labor Costs   Mandays											Cost	The trial has
Mandays	Labor Co	sts				_						
Dear Number of workers	2000.00							-,		Number		
1   2   3   4   5   Others	Own Number of	workers					ĺ				per tronter	
Male				1	2	3	4	5	Others	0. 44,5		
Female		Volunteer					_		Others	10	P2 500 00	number of hours
				×								
Male Female   X				~						J	1 1,200.00	
Female					x					10	P2 500 00	auys.
Dottact   Specify duration and cost   Specify duration a												
Specify duration and cost					1^	one	Week 10	) works	rc		_	
P   P   P   P   P   P   P   P   P   P											r 3,000.00	
Please check the column   Corresponding to the # of farm inouts   Used in the farm activity   P   P   P   P   P   P   P   P   P						Specif	y uurati	on and t	.031		D	
Corresponding to the # of farm inouts used in the farm activity   Cost   Per   Incurred   Unit   Per   Unit   Unit   Per   Unit   Unit   Per   Unit   Unit   Per   Unit   Unit   Unit   Unit   Per   Unit	101013										r	
1.1 Urea	_											
1.1 Urea	arm			cc					uts			
1.1 Urea	×				us	ed in the	arm activ	vity		Cost	Cost	
1.1 Urea	g kt	g								per	Incurred	
1.1 Urea	Inp ase	٥ و			_	Sacks,	gallons			unit		
1.1 Urea	투면	asn										
1.1 Urea   1.2 NPK   1.3 14-14-14   1.4	Pa Fai	운		5	10	15	20	25	Others			Remarks
1.2 NPK	1. Fertilizer (in sa	acks)									Р	
1.3 14-14-14	1.1 Urea											
1.4   others	1.2 NPK											
2. Biorganic	1.3 14-14-14											
2. Biorganic	1.4 others											
3.1					х					500.00	P5.000.00	
3.1		ters)									.,	
3.2		,	1									
3.3 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4											Р	
3.4												
A. Chicken Dung			1									
Chicken Dung			1									
P   P   P   P   P   P   P   P   P   P			1									
P   Please check the column   Corresponding to the # of farm inouts   Used in the farm activity   Cost   Per   Incurred   Incurred   P   Provided   Prov			1								D	
Please check the column   Corresponding to the # of farm inouts   Used in the farm activity   Cost   Per   Incurred   Unit   Per   Incurred   Unit   Per   Incurred   Incurred   Per   Incurred   In			-									
Corresponding to the # of farm inouts   Cost   Per   Incurred	TOTAL	_									Р	
Sacks, gallons					Plea	ase chec	k the col	umn				
Sacks, gallons	2			СС	rrespon	ding to t	he # of fa	arm ino	uts			
Description of the second of	ro L									Cost	Cost	
Description of the second of	ts f											
Description of the second of	بار الله الله الله الله الله الله الله ال					Sacks	gallons					
Description of the second of	ı L					323.07						
Description of the second of	Farr			5	10	15	20	25	Others			Remarks
1.1 Urea     x     1,000.00     P5,000.00       1.2 NPK     400.00     P2,000.00       1.4 others     P       2. Biorganic     x     P       3. Pesticide(in liters)     P       3.1     30     500.00       3.2     P       3.3     P       3.4     P       4. Chicken Dung     20     50.00       5. Others     P	1. Fertilizer (in sa	acks)							2 37.013		Р	
1.2 NPK       400.00       P2,000.00         1.3 14-14-14       x       400.00       P2,000.00         1.4 others       P       P         2. Biorganic       x       P       P         3. Pesticide(in liters)       30       500.00       P1,500.00         3.2       P       P         3.3       P       P         3.4       P       P         4. Chicken Dung       20       50.00       P1,000.00         5. Others       P		,		x						1.000.00		
1.3 14-14-14										_,500.00	1,110.00	
1.4 others				×						400.00	P2 000 00	
2. Biorganic       x       P         3. Pesticide(in liters)       30       500.00       P1,500.00         3.2       P       P         3.3       P       P       P         3.4       P       P       P         3. Herbicide       P       P       P         4. Chicken Dung       20       50.00       P1,000.00         5. Others       P       P				r						400.00		
3. Pesticide(in liters)  3.1						V						
3.1       30       500.00       P1,500.00         3.2       P       P         3.3       P       P         3.4       P       P         3. Herbicide       P       P         4. Chicken Dung       20       50.00       P1,000.00         5. Others       P       P		ors)				^					r	
3.2 P P S S S S S S S S S S S S S S S S S		.e15)							20	F00.00	D1 F00 C0	
3.3 P P P P P P P P P P P P P P P P P P									30	500.00		
3.4 P P P P P P P P P P P P P P P P P P P												
3. Herbicide												
1. Chicken Dung 20 50.00 P1,000.00 P 5. Others P												
5. Others P	3. Herbicide											
	4. Chicken Dung						20			50.00	P1,000.00	
Total P	5. Others										Р	
	Total										P	

#### 5. FORM 5 - HARVESTING RECORD

The Harvesting Record form's objective is to measure the labor and transportation cost of the farm produce and also to measure the farm output as well as its by-products. Certain activities may be a combined, thus one may check more than one activity. Don't forget to put the date of the activity.

The second portion of the form pertains to the cost of labor used. Hired labor is easy to cost since the actual cash payment are made. Labor cost of owner and family members are recorded at prevailing regional labor rate of farm laborer as specified by the Department of Labor and Employment (DOLE).

Transporting and hauling may be done through personal transport or through hired transport. In case of personal transport, the cost of fuel, oil, meals, and other actual costs incurred must be recorded. In

case of hired transport, total costs of hire must be recorded.

Harvests are not often made in a day. The volume of sales (kilos or sacks) together with its gross sales are recorded. Gross sales pertain to the total amount received for the total volume of harvest.

In some cases, not all of the total harvest is sold. Some are consumed by the household, given to friends or neighbors, rejected, or spoiled. In this case, the items not sold must be recorded as consumed.

By-products are secondary or incidental products derived from the farm. It is not a primary product. Example: A farmer harvested 1,500 kilos of cabbage and sold its peeling to a neighbor who used the peeling to feed his pigs. The peeling is the by-product. The total kilos/sacks and the gross sales of the by-product must be measured and recorded.

				erations						
		SPIC	CACC FO	RM 5-HA	RVESTIN	IG REC	ORD			
	Date:	arch 1-30,	2011							
Activity	(You may check more than o	ne)								
	Harvesting		X							
	Post harvest		X							
	Marketing		x							
			Please c	heck the	column					Remarks
		corre	spondin	g to the	# of wor	kers		Number	Cost	
	Labor Costs		•	n the far				of days	Incurred	
				Mandays		-,			per worker	
Own	Number of workers									
	lember/Volunteer	1	2	3	4	5	Others			
,	Male		x					15	P7,500.00	number of hours
	Female		x					15	P7,500.00	converted to
Hired Lab									, , , , , , , , , , , , , , , , , , , ,	days.
	Male		x						P7.500.00	1
	Female								Р	
Contract				10	000 for 4	Hauler	S		P	Haulers
Bayaniha	ın				fy durati					
Totals									Р	
				•						
<b>T</b>					T					Domonilia
Trans	sporting and Hauling	1	2	2				r harvest		Remarks
	Harvest	1	2	3	4	ortatio 5	n Cost pe		DS 000 00	
1. Cost o	Harvest of Hiring		2 x					2,000.00	P8,000.00	contract
1. Cost o	Harvest of Hiring				4				P8,000.00	
1. Cost o	Harvest of Hiring			х	4 x					contract
1. Cost o 2. Other Total	Harvest of Hiring				4 x			2,000.00 Price	P8,000.00 Gross Sales	contract
1. Cost of the cos	Harvest of Hiring s			х	4 x			2,000.00	Gross Sales P12,000.00	contract for all harvest
1. Cost of 2. Other Total	Harvest of Hiring s (in kilos) Harvest 1 Harvest 2	x		x Harvest	4 x			2,000.00 Price	Gross Sales P12,000.00 P24,000.00	contract for all harvest
1. Cost of 2. Other Total	Harvest of Hiring s (in kilos) Harvest 1	x	х	x Harvest	4 x			2,000.00 Price 10.00/kilo	Gross Sales P12,000.00	contract for all harvest
1. Cost of 2. Other Total	Harvest of Hiring s (in kilos) Harvest 1 Harvest 2	x	х	Harvest	4 x			2,000.00 Price 10.00/kilo 20.00/KILO	Gross Sales P12,000.00 P24,000.00	contract for all harvest
1. Cost of 2. Other Total	Harvest of Hiring s (in kilos) Harvest 1 Harvest 2 Harvest 3	x	х	Harvest	4 x in kilos			2,000.00  Price 10.00/kilo 20.00/KILO 10.00/kilo	Gross Sales P12,000.00 P24,000.00 P12,000.00	contract for all harvest
1. Cost of 2. Other Total  Output 20.00/KIL	Harvest of Hiring s (in kilos) Harvest 1 Harvest 2 Harvest 3 Harvest 4	x	1200 80	Harvest	4 x in kilos			2,000.00  Price 10.00/kilo 20.00/KILO 10.00/kilo	Gross Sales P12,000.00 P24,000.00 P12,000.00	contract for all harvest
1. Cost of 2. Other Total	Harvest of Hiring s (in kilos) Harvest 1 Harvest 2 GHarvest 3 Harvest 4 Others	1200	1200	Harvest	4 x in kilos			2,000.00  Price 10.00/kilo 20.00/KILO 10.00/kilo	Gross Sales P12,000.00 P24,000.00 P12,000.00 P12,000.00	contract for all harvest
1. Cost of 2. Other Total Output 20.00/KII % Sold % Consul	Harvest of Hiring s (in kilos) Harvest 1 Harvest 2 GHarvest 3 Harvest 4 Others	1200 100	1200 80	Harvest	4 x in kilos			2,000.00  Price 10.00/kilo 20.00/KILO 10.00/kilo	Gross Sales P12,000.00 P24,000.00 P12,000.00 P24,000.00 P24,000.00	contract for all harvest
1. Cost c 2. Other Total Output 20.00/KII % Sold % Consul By-produ	Harvest of Hiring s (in kilos) Harvest 1 Harvest 2 GHarvest 3 Harvest 4 Others	1200 100	1200 80	Harvest	4 x in kilos			2,000.00  Price 10.00/kilo 20.00/KILO 10.00/kilo	Gross Sales P12,000.00 P24,000.00 P12,000.00 P24,000.00 P	contract for all harvest
1. Cost c 2. Other Total Output 20.00/KII % Sold % Consui By-produ	Harvest of Hiring s (in kilos) Harvest 1 Harvest 2 GHarvest 3 Harvest 4 Others med acts ()Specify	1200 100	1200 80	Harvest	4 x in kilos			2,000.00  Price 10.00/kilo 20.00/KILO 10.00/kilo	Gross Sales P12,000.00 P24,000.00 P12,000.00 P24,000.00 P	contract for all harvest

### 6. FORM 6 – PROBLEMS ASSOCIATED WITH FARM ACTIVITIES

The Problems Associated with Farm Activities form records the farming activity and the prevailing weather conditions. The form can be filled-up by checking the space that matches the activity and climatic condition.

The lower portion of the form records the rejects, mortality, stunted growth, and other

adverse results observed or experienced during the cultural management and post harvest activities. Percentages are used to measure the adverse result. Some percentages can be directly measured while some cannot be measured. In cases where actual measurements cannot be done, best percentage estimates are acceptable.

Recording of other problems experienced is very much encouraged. Please see accomplished sample.

				Fai	m Operat	ions Monito	ring Form						
					PRC	BLEMS ASSO	CIATED WITH	H FARM ACT	IVITIES				
	1.1	Land Preparat	tion			3. Cultura	l Management				5. Post Harv	est	6
AREAS	1.1. Area	1.2 Digging &	1.3 Hole		3.1	3.2	3.3 Fertilizer	3.4		5.1	5.2	5.3 Hauling	Marketing
(Check as many)	clearing	bed prep'n	preparation	2. Planting	Weeding	Watering	application	Spraying	4. Harvesting	Sorting	Packaging	transporting	
1. CLIMATIC CONDITION													
3.1 Heavy rain	х	х	х										
3.3 Rainy													
3.4 Drizzling													
3.6 cloudy													
3.7 Frost													
3.8 Typhoon				х									х
3.9 Hail									х				
3.10 Unusually warm						х	x	х					
3.11 Others													
			3. Cultural N	/lanagement			5	. Post Harves	t				
AREAS		3.1	3.2	3.3 Fertilize	3.4				5.3 Hauling		Other F	Problems	
(Indicate Percentage)	2. Planting	Weeding	Watering	application	Spraying	4. Harvesting	5.1 Sorting	5.2 Packing	transporting				
4. QUALITY CROPS													
and LIVESTOCKS													
4.1 Rejects*	х					х							
4.2 Mortality	х												
4.3 Stunted growth	х												
4.4 Others													

### 7. FORM 7- LOCAL WORKING GROUP REPORT FORM

The LWG Report Form is accomplished by the cooperator and includes problems and concerns encountered during the implementation of the CCA options. It should also include what actions were taken to solve or at least minimize the problem.

The LWG Report Form must be submitted to the Field Coordinator every month for evaluation and appropriate action.

### PART III

## THE FARMER-COOPERATORS RECORDS

		SPICACC I		bruary 10,			
NAME:	John Don	vilos		Educatio	nal Attainr	nent : Elemen	tarv
AGE:	49	illos				1.1.3.1.4.1.	tary
GENDER:	Male			(Please re	efer to app	endix A for the	Option Code)
		Quantity					
		ne quantity		Unit of	# of use	Estimated	
ASSETS	own	spicace	others	me as ure	in Years	Market Value	Remarks
1. Farm land							
2. Tractors/Microtiller							
3. Farm Animals (i.e carabao)							
4. Greenhouse							
5. Backpack Sprayer							
6. Hose/Rainburst							
7. Hoes/Shovels etc.							
8. Water tank/Impoundment							
9. Transportation							
10. Storage							
11. Thresher							
12. Pig pens							
12. Stocks inventory for the	next crop	ping cycle					
12. 1 Seedlings							
12.2 Tubers							
12. 3 Runners							
12. 4 Piglets							
12. 5 Fingerlings							
12. 6 Others		<u> </u>					
13. Farm Inputs inventory be	fore the o	ropping cyc	ele .				
13.1 Fertilizers							
13.1.1 Chicken Dung							
13.1.2 14-14-14							
13. 1.3 NPK							
13.1.4 Urea							
13.2 Stocks (Specify)							
13.2.1 Seedlings							
13.1.2 Tubers							
13.1.3 Runners							
13.1.4 Piglets							
13.1.5 Fingerlings							
13.1.6 Others							
13.3 Feeds							
13.4 Medicines, Vitamins							
13.5 Others						WIA COS	D.
REGULAR LABOR						WAGE	Remarks
Own Labor - Female							
- Male							
2. Hired Labor - Female							
3. Hired Labor - Male							
4. Contract			Agr	eed price			

Draw at	o indic	te the	farm	activi	ty fore	ecasti	in the	e caler	ndar																																										
		Jani	_				ebrua				March				Арг					May				Jur				July				Aug					temb				Octob				Nover					embe	-
FARM ACTIVITY INVENTORY	1	We		4	1		Neek	3		1	Veeks 3			_	Wee	ks 3	4	1	_	Veeks	_	4	1	Wee		4	1	/eeks	; }   1	4	1	We		4	1		/eeks	4	1		Week	3	,	1	Wee	eks 3		1	_	eeks	4
FAKIN ACTIVITY INVENTORY	1		3	4	1	-	+	3	4	1	 3	ť	T	1		3	4	1	<u> </u>	Ť		4	1		3	4	1	 1	1	4	1		3	4	1	1	3	1	+	1	4	3	4	1	۷	3	4	1		3	4
1. Area Clearing																																																	L		
2. Land Preparation																																																			
2.1 Digging/bed preparation																																																			
2.2 Hole Preparation																																																			
3. Planting																																																			
4. Cultural Management																																																			
4.1 Weeding													ĺ																										ĺ												
4.2 Watering																																																			
4.2 Watering  4.3 Fertilizer application																																																			
													l																													1									
4.4 Spraying																																										Ť									
5. Harvesting							1					ŀ																														+	1								
6. Post harvest								+																																		+							H		$\blacksquare$
6.1 Sorting							1					-																														_							L		
6.2 Packing							1																																												
6.3 Hauling/Transporting																																																	L		
7. Marketing							+					-	1																										1												
8. Trainings/Seminars																																																			
List the title of trainings																																																			
2															5																																				
3															7																																				
4															8																																				

		Farm (	Operations	Monitorin	g Form				
		SPICA	CC FORM 3	-IMPUTED	COSTS				
		1 1 1			1.1.		- if		
			correspond			puts	Specify duration in	Imput	ad
	crppng	Land	ring the foll Planting	Cult'l	Harves	t/Dost	days, weeks	Cos	
Other Inputs	cycle	prep	Fiditing	mgmt	Marke		month, etc		
1. Farmland	_,	F - F						Р	
2. Tractors								Р	
3. Farm Animals (i.e carabao)								P	
4. Greenhouse								Р	
5. Backpack Sprayer								Р	
6. Hose/Rainburst								Р	
7. Hoes/Shovels etc.								Р	
8. Water tank/Impoundment								Р	
9. Transportation (i.e. Trucks)								Р	
10. Storage								Р	
11. Thresher								Р	
12. Others (Baskets, scals)								Р	
13. Stocks								Р	
Total								Р	
Prepared by:									
Name and Signature of	Cooperato	or			Date				

					Monito					
Date:										
ACTIVITY (Please put an X on	the act	tivity)								
Land preparation			Planting	3						
- Area preparation				manage	ement		_			
- Digging & bed prep			- weed							
- Hole preparation			- wate							
				lizer app						
			- Spray	ing pes	ticide					
			-		he colur					Remarks
					# of wo				Cost	
Labor Costs		in			m activi	ty			Incurred	
				Mandays	5			Number	per worker	
Own Number of workers								of days		
Family Member/Volunteer		1	2	3	4	5	Others			
Male										
Female										
Hired Labor										
Male Female										
Contract				one	week 10	) works	rs			
Bayanihan					y duration					
Totals				Specif	y uurati	on and (	Jost		P	
Totals										
5					the col					
a. Tu		cor			ne # of fa		uts	_		
Farm Inputs purchased by Farm Households			use	ed in the f	arm activ	vity		Cost	Cost	
Farm Inputs purchased b Households								per	Incurred	
Ing eho				Sacks,	gallons	1		unit		
arm		_					l			
		5	10	15	20	25	Others			Remarks
1. Fertilizer (in sacks)										
1.1 Urea 1.2 NPK									P	
1.3 14-14-14	-								P	
1.4 others	-								P	
2. Biorganic									P	
3. Pesticide(in liters)									r	
3.1									Р	
3.2									P	
3.3									P	
3.4									P	
3. Herbicide									P	
4. Chicken Dung									P	
5. Others									P	
Total									P	
					the col					
Ę		cor	•		ne # of fa		uts			
j fr			use	ed in the f	arm activ	vity		Cost	Cost	
onts.								per	Incurred	
ACC				Sacks,	gallons	1		unit		
Farm Inputs from SPICACC		_					l			
,		5	10	15	20	25	Others			Remarks
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1.1 Urea 1.2 NPK									P P	
									P	
1.3 14-14-14 1.4 others									P	
2. Biorganic									P	
3. Pesticide(in liters)									F	
3.1									P	
3.2									P	
3.3									P	
3.4									P	
3. Herbicide									P	
4. Chicken Dung									P	
5. Others									P	
Total									P	
. 5 tu									-	

					erations							
			SPIC	ACC FOR	RM 4-FAI	RM ACTI	VITY CC	OSTS				
	Date:											
	ACTIVITY (Please put an X on	the ac	tivity)					-				
	Land preparation			Planting				_				
	- Area preparation				l manage	ement		-				
	- Digging & bed prep - Hole preparation			- weed								
	- Hole preparation				lizer app	lication						
					ing pest			1				
				- Cpro								
			Plo	aco put	an X on t	ho colur	mn					Remarks
					g to the						Cost	Remarks
	Labor Costs				n the far						Incurred	
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Own	Number of workers								of (	days	•	
Famil	y Member/Volunteer		1	2	3	4	5	Others				
	Male											
	Female											
Hired	Labor											
	Male											
	Female											
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Bayar					Specif	y duration	on and o	cost				
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	ara		со	rrespon	ding to tl	ne # of fa	arm ino	uts				
	Farm Inputs purchased by Farm Households			use	ed in the f	arm activ	ity		С	ost	Cost	
	Farm Inputs purchased b Households									er	Incurred	
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	NPK									F		
	14-14-14									F		
	others									F		
	organic									P	)	
	sticide(in liters)											
3.1										F	)	
3.2	2									F	)	
3.3										P		
3.4										F		
	rbicide									F		
	icken Dung									F		
5. Ot										P		
Tota	al	_							_	<u> </u>	)	
				Plea	se check	the col	umn					
	F		со	rrespond	ding to tl	ne # of fa	arm ino	uts				
	Farm Inputs from SPICACC			use	ed in the f	arm activ	ity		С	ost	Cost	
	uts								p	er	Incurred	
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	E 2											
			5	10	15	20	25	Others				Remarks
	rtilizer (in sacks)									P		
	Urea									F		
	NPK									F		
	14-14-14 others							1		P		
	organic									P		
	sticide(in liters)											
3.1										F	)	
3.2										F		
3.3										F		
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3. He	rbicide									P		
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Tota	al									F	)	

				Monitor						
Date:	3110	ACC 1 01	VIVI T-I A	WI ACII	VIII CC	/313				
ACTIVITY (Please put an X on the d	activity)									
Land preparation		Planting	g							
- Area preparation		Cultura	l manage	ement						
- Digging & bed prep		- wee	ding							
- Hole preparation		- wate	ring							
			lizer app							
		- Spra	ying pes	ticide						
	Ple	ase put	an X on t	he colur	nn					Remarks
	corre	spondin	g to the	# of wo	rkers				Cost	
Labor Costs	in	volved i	n the far	m activi	ty				Incurred	
			Mandays	<u> </u>				umber	per worker	
Own Number of workers							0	f days		
Family Member/Volunteer	1	2	3	4	5	Others				
Male										
Female										
Hired Labor										
Male										
Female				o.a.l. 40	)					
Contract				week 10						
Bayanihan			Specii	y duratio	on and o	cost			P	
Totals									P	
_				the col						
Farm Inputs purchased by Farm Households	coı			ne # of fa		uts				
<del>&gt;</del>		use	ed in the f	arm activ	vity			Cost	Cost	
outs olds								per	Incurred	
Farm Inputs purchased b Households			Sacks,	gallons		1		unit		
arm lous										D
	5	10	15	20	25	Others				Remarks
1. Fertilizer (in sacks) 1.1 Urea									P	
1.1 Orea 1.2 NPK									P	
1.3 14-14-14									P	
1.4 others									P	
2. Biorganic									P	
3. Pesticide(in liters)										
3.1									Р	
3.2									Р	
3.3									Р	
3.4									Р	
3. Herbicide									Р	
4. Chicken Dung									Р	
5. Others									Р	
Total									Р	
		Dlos	se chac	the col	umn					
_	COL			he # of fa		uts				
Farm Inputs from	COI	-		arm activ		ats		Cost	Cost	
ts fi		us	ca iii aic i	arm aca v	ıcy			per	Incurred	
nd O			Sacks,	gallons				unit		
Farm Inpi										
SPIC	5	10	15	20	25	Others				Remarks
Fertilizer (in sacks)									P	
1.1 Urea									P	
1.2 NPK									Р	
1.3 14-14-14									Р	
1.4 others									P	
2. Biorganic									Р	
3. Pesticide(in liters)										
3.1									Р	
3.2									Р	
3.3									Р	
3.4									Р	
3. Herbicide									Р	
4. Chicken Dung									Р	
5. Others									P	
Total									Р	

					erations						
	_		SPIC	ACC FO	RM 4-FAI	RM ACTI	VITY CC	STS			
	Date:										
	ACTIVITY (Please put an X or	the ac	ctivity)	Dlantin	_			1			
	Land preparation - Area preparation			Planting	s I manage	mont					
	- Digging & bed prep			- wee		inent					
	- Hole preparation			- wate							
	note preparation				lizer app	lication					
					ying pest						
				·							
			Ple	ase put	an X on t	he colur	mn				Remarks
					g to the					Cost	
	Labor Costs				n the far					Incurred	
					Mandays	5			Number	per worker	
Own	Number of workers								of days		
Famil	y Member/Volunteer		1	2	3	4	5	Others			
	Male										
	Female										
Hired	Labor										
	Male										
C 1 -	Female										
Contr						week 10					
Bayar					Specii	y duration	on and o	cost		P	
TOta	15									r	
	2				se checl						
	arr:		со		ding to tl			uts		Cont	
	s by F			us	ed in the f	arm activ	/ity		Cost	Cost	
	put ed old				Cooks	an II ana			per	Incurred	
	n In Shas				Sacks,	garrons			unit		
	Farm Inputs purchased by Farm Households		5	10	15	20	25	Others			Remarks
1. Fe	rtilizer (in sacks)			10	13	20	23	Others			Kemarks
	Urea									Р	
	NPK									Р	
1.3	14-14-14									Р	
1.4	others									Р	
2. Bio	organic									Р	
	sticide(in liters)										
3.1										Р	
3.2										Р	
3.3										P	
3.4										P	
	rbicide									P	
5. Ot	icken Dung									P P	
Tota										P	
1018											
					se checl						
	E		со		ding to tl			uts			
	Farm Inputs from SPICACC			us	ed in the f	arm activ	ity		Cost	Cost	
	ont:								per	Incurred	
	li ACC				Sacks,	gallons	1	1	unit		
	Farm Inpu SPICACC		5	10	15	20	25	Others			Remarks
1. Fe	rtilizer (in sacks)			10	13	20	23	Others		Р	Kemarks
	Urea									P	
	NPK									Р	
1.3	14-14-14									Р	
	others									Р	
2. Bio	organic									Р	
	sticide(in liters)										
3.1										Р	
3.2										Р	
3.3										P	
3.4										P	
	rbicide									P	
	icken Dung									P	
5. Ot Tota										P P	
1012	I									P	

			erations RM 4-FAI							
Date:	SPIC	ACC FOR	(IVI 4-FAI	KIVI ACTI	VIII CC	1313				
ACTIVITY (Please put an X on the	e activity)									
Land preparation		Planting	g							
- Area preparation			manage	ement						
- Digging & bed prep		- weed								
- Hole preparation		- wate								
		- Ferti	lizer app	lication						
			ing pest							
	Ple	ase put	an X on t	he colur	nn		ſ			Remarks
			g to the						Cost	
Labor Costs			n the far						Incurred	
			Mandays		•			Number	per worker	
Own Number of workers								of days		
Family Member/Volunteer	1	2	3	4	5	Others				
Male							Ī			
Female										
Hired Labor										
Male										
Female										
Contract			one	week 10	) worke	rs				
Bayanihan			Specif	y duration	on and o	cost				
Totals									Р	
		Plea	se check	the col	umn		Г			
E	COL		ding to th			uts				
Fa .			ed in the f			ats		Cost	Cost	
हु के हु		ust	o iii dic i	armacuv	, i cy			per	Incurred	
pur sed			Sacks,	gallons				unit	mearrea	
thas se h			Jacks,	garrons				unit		
Farm Inputs purchased by Farm Households	5	10	15	20	25	Others				Remarks
1. Fertilizer (in sacks)	3	10	13	20	23	Others	+			Remarks
1.1 Urea							T		P	
1.2 NPK							t		P	
1.3 14-14-14							T		P	
1.4 others							T		P	
2. Biorganic							T		P	
3. Pesticide(in liters)							T			
3.1							Ť		P	
3.2							T		P	
3.3							T		P	
3.4							T		P	
3. Herbicide							T		P	
4. Chicken Dung							T		P	
5. Others							T		P	
Total							1		P	
. Sta.										
		Plea	se check	the col	umn					
Ε	COI	rrespond	ding to th	ne # of fa	arm ino	uts				
		use	ed in the f	arm activ	ity			Cost	Cost	
Farm Inputs from SPICACC								per	Incurred	
Farm Inp SPICACC			Sacks,	gallons				unit		
Ē Ş										
	5	10	15	20	25	Others	L			Remarks
1. Fertilizer (in sacks)									Р	
1.1 Urea							1		Р	
1.2 NPK							_		Р	
1.3 14-14-14							1		Р	
1.4 others							1		Р	
2. Biorganic						$\square$			Р	
3. Pesticide(in liters)										
3.1							1		Р	
3.2							_		Р	
3.3							1		Р	
3.4							1		Р	
3. Herbicide							1		Р	
4. Chicken Dung									Р	
5. Others							L		Р	
Total									Р	

			Farm Op	erations	Monito	ring For	m			
			ICACC FO							
	Date:	<u> </u>								
Activity	(You may check more than on	e)								
,	Harvesting	-,								
	Post harvest									
	Marketing									
			D.	1 1 1						
					column			Nivershau	Cont	Remarks
	Labor Costa		espondii nvolved					Number	Cost	
	Labor Costs	'				ιy		of days	per worker	
Own	Number of workers			Manday 1	<u>s</u> 				per worker	
	ember/Volunteer	1	2	3	4	5	Others		P	
i aiiiiiy ivi	Male		+ -	1	1 -	,	Others		P	
	Female								P	
Hired Lab									'	
Time d Lab	Male								P	
	Female								P	
Contract				Spec	ify durat	ion and	cost		P	
Bayaniha	n				ify durat					
Totals					1				Р	
Trans	porting and Hauling				Trans	portatio	on Cost pe	r harvest		Remarks
Trans	porting and Hauling Harvest	1	2	3	Trans	portatio	on Cost pe	r harvest		Remarks
Trans  1. Cost of	Harvest	1 x	2 x	3 x	1			r harvest 2,000.00	P8,000.00	Remarks
	Harvest f Hiring				4				P8,000.00	
1. Cost o	Harvest f Hiring				4				P8,000.00	contract
<ol> <li>Cost o</li> <li>Others</li> <li>Total</li> </ol>	Harvest f Hiring			X	4 x			2,000.00		contract for all harvest
1. Cost o	Harvest f Hiring (in kilos)			X	4				P8,000.00  Gross Sales P	contract
<ol> <li>Cost o</li> <li>Others</li> <li>Total</li> </ol>	Harvest f Hiring			X	4 x			2,000.00	Gross Sales	contract for all harvest
<ol> <li>Cost of the cost of the cost</li></ol>	Harvest f Hiring (in kilos) Harvest 1 Harvest 2			X	4 x			2,000.00	Gross Sales	contract for all harvest
<ol> <li>Cost of the cost of the cost</li></ol>	Harvest f Hiring (in kilos) Harvest 1			X	4 x			2,000.00	Gross Sales P P	contract for all harvest
<ol> <li>Cost of the cost of the cost</li></ol>	Harvest f Hiring (in kilos) Harvest 1 Harvest 2 Harvest 3			X	4 x			2,000.00	Gross Sales P P	contract for all harvest
<ol> <li>Cost of the cost of the cost</li></ol>	Harvest f Hiring (in kilos) Harvest 1 Harvest 2 Harvest 3 Harvest 4			X	4 x			2,000.00	Gross Sales P P	contract for all harvest
1. Cost of 2. Others Total  Output  20.00/KIL	Harvest f Hiring  (in kilos)  Harvest 1  Harvest 2  Harvest 3  Harvest 4  Others			X	4 x			2,000.00	Gross Sales P P P	contract for all harvest
1. Cost of 2. Others Total  Output  20.00/KIL  % Sold % Consur  By-produ	Harvest f Hiring (in kilos) Harvest 1 Harvest 2 Harvest 3 Harvest 4 Others  med cts ()Specify			X	4 x			2,000.00	Gross Sales P P P P	contract for all harvest
1. Cost of 2. Others Total  Output  20.00/KIL  % Sold % Consur  By-produ	Harvest f Hiring (in kilos) Harvest 1 Harvest 2 Harvest 3 Harvest 4 Others			X	4 x			2,000.00	Gross Sales P P P P P	contract for all harvest
1. Cost of 2. Others Total  Output  20.00/KIL  % Sold % Consur  By-produ	Harvest f Hiring (in kilos) Harvest 1 Harvest 2 Harvest 3 Harvest 4 Others  med cts ()Specify Animal Feeds			X	4 x			2,000.00	Gross Sales P P P P P P	contract for all harvest
1. Cost of 2. Others Total  Output  20.00/KIL  % Sold % Consur  By-produ	Harvest f Hiring (in kilos) Harvest 1 Harvest 2 Harvest 3 Harvest 4 Others  med cts ()Specify Animal Feeds			X	4 x			2,000.00	Gross Sales P P P P P	contract for all harvest
1. Cost of 2. Others Total  Output  20.00/KIL  % Sold % Consur  By-produ	Harvest f Hiring  (in kilos) Harvest 1 Harvest 2 Harvest 3 Harvest 4 Others  med cts ()Specify Animal Feeds			X	4 x			2,000.00  Price	Gross Sales P P P P P P P	contract for all harvest
1. Cost of 2. Others Total  Output  20.00/KIL  % Sold % Consur  By-produ	Harvest f Hiring (in kilos) Harvest 1 Harvest 2 Harvest 3 Harvest 4 Others  med cts ()Specify Animal Feeds			X	4 x			2,000.00	Gross Sales P P P P P P P	contract for all harvest

			Farm Op	erations	Monito	ring For	m			
		SF	PICACC F							
	Date:									
Activity	(You may check more than one	)								
	Harvesting									
	Post harvest									
	Marketing									
			Please	check th	e columr	1				Remarks
		cor	respondi					Number	Cost	
	Labor Costs		involved					of days	Incurred	
				Manday		,		, .	per worker	
Own	Number of workers			1	Ī				per mermer	
	ember/Volunteer	1	2	3	4	5	Others		Р	
,	Male								Р	
	Female								Р	
Hired Lab										
	Male								Р	
	Female								Р	
Contract				Spec	ify durat	ion and	cost		Р	
Bayaniha	n			Spec	ify durat	ion and	l cost			
Totals									Р	
Trans	porting and Hauling				Trans	portatio	on Cost pe	r harvest		Remarks
	Harvest	1	2	3	4	5	6			
1. Cost o		Х	Х	Х	Х			2,000.00	P8,000.00	contract
2. Other	5									for all harvest
Total										
Output	(in kilos)			Harves	t in kilos	;		Price	Gross Sales	Remarks
	Harvest 1								Р	
	Harvest 2								Р	
20.00/KIL	Harvest 3								Р	
	Harvest 4								Р	
	Others									
% Sold									Р	
% Consu	med								Р	
By-produ	cts ()Specify									
:	Animal Feeds								Р	
:	2								Р	
3	3								Р	
	Prepared by:							Note	d by:	
	Name and Signar	ture of	f Coope	erator				Field	l Coordinator/A'	Τ

#### **Farm Operations Monitoring Form** PROBLEMS ASSOCIATED WITH FARM ACTIVITIES 1. Land Preparation 3. Cultural Management 5. Post Harvest 1.2 Digging & 1.3 Hole 3.3 Fertilizer Marketing AREAS 3.1 3.2 3.4 5.3 Hauling (Check as many) clearing bed prep'n preparation 2. Planting Weeding Watering application Spraying 4. Harvesting Sorting Packaging transporting 1. CLIMATIC CONDITION 3.1 Heavy rain 3.3 Rainy 3.4 Drizzling 3.6 cloudy 3.7 Frost 3.8 Typhoon 3.9 Hail 3.10 Unusually warm 3.11 Others 3. Cultural Management 5. Post Harvest **AREAS** 3.2 3.3 Fertilize 5.3 Hauling Other Problems (Indicate Percentage) 2. Planting Weeding Watering application | Spraying | 4. Harvesting | 5.1 Sorting | 5.2 Packing transporting 4. QUALITY CROPS and LIVESTOCKS 4.1 Rejects\* 4.2 Mortality 4.3 Stunted growth 4.4 Others

\* Rejects could refer to stocks (i.e. runners, seedling etc. and harvest)

Prepared by:

Noted by:

Name and Signature of Cooperator

Field Coordinator/AT

## SPICACC FORM 7 – LWG REPORT FORM (Please perforate and submit to the Field Coordinator) DATE: Name of Cooperator: CCA Option: **PROBLEMS ACTIONS TAKEN OTHERS** Noted by: Field Coordinator **NOTES**

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### **SPICACC FORM 8**

Narrative report
The data collector administers the following narrative report after the interview.
1. Who chose the CCA option?
2. Have you been doing this practice (cite the practice or chosen option)? For how long?
3. During the visits of the agricultural technicians, what are the innovations that were introduced in the CCA options? Can you identify them? Help the co-operators recall by identifying their farm activities such as land preparation, choice of seeds, fertilizer usage etc. Ask them to rate the effectiveness of the innovation introduced by the AT's. The expected responses must be along (because the notice an increase in yield; minimum farm management; minimum water usage etc).
4. Do you think that the CCA option is resilient to climate change? Why?(Probe why does the cooperator say so –lead him to economic benefit, environment, technical etc) Ask them to rate the CCA option in terms of resiliency- ask them reason for the low or high rating.
5. How had the local government unit supported the project? Ask them to rate the LGU support in a scale of 1-5. Ask them why they gave low or high scores.
6. Have you attended trainings? What are these trainings? What did you learn? Was its helpful? How are you using the training in your farm? Ask them to rate (1-5) the extent to which they are using their training in the farm.
7. In your opinion, how does the CCA option help in preserving the environment? (Enumerate to the cooperator if he cannot think i.e. did it enhance fertility of the soil, were they able to conserve water, were they able help reduce the emission of green house due to reduce fertilizer use?) Ask the respondent to rate environmental effectiveness due to the CCA option in a scale of 1-5. Ask them why they give high or low rating.
8. How had the changes in climate affected your farm activities? How did you adjust?

10. How many in the community practices the CCA option chosen?

11. In what way was the subsidy coming from the SPICACC helpful in your ability to adapt to the climate change? (Lead them to answer the question along economic benefits, environmental benefits, technical benefits etc)

9. Was the chosen option helpful? (ask the respondent to rate helpfulness in a scale of 1-5) In what way

do you say so?

### SPICACC FORM 9 LIVESTOCK MONITORING FORM

Name:	Age:	Gende	er:
Educational Attainment:			
Option Title			
Municipality/Barangay:			
1. Livestock husbandry practices			
1.1. What do you feed your farm ani	mals? Where do	you get/gather the	eir food?
1.2 Where do the farm animals stay?			
1.3 What are the main problems end answer lead them to diseases, growth you do to solve the problem?			
1.4 How do you compare the growth farm animal? (Which animal is more			CC with other domesticate
2. What is the reason why do you climate change)	raise livestock?	? (Expected answ	ver is as safety net due t
3. Have you sold the livestock? He co-operator when do they intend to s	•		` •
4. In what way does livestock raising for number 2 in case they were not a			ange? (Validating questio
5. Have you always raised livesto raising livestock? How does it differ			J 1 J
6. How many hours do you usually livestock (men, women, female child	•		? Who usually tend to th
7. As a CCA option how had it help	ed you adjust to	climate change?	
8. Other concerns			

### SPICACC FORM 10 FISHERY MONITORING FORM

Name					Age:			Geno	ler:		
Optic	on Title										
1. F1	shery pract	ices									
1.1.	What d	o you	feed	your	fish?	Where	do	you	get/gather	their	food?
answ		n to disea	ases, gr				_		(Allow the	_	
	Iow do you ch is more	-	_		the fish	es from	SPIC	ACC w	rith other fis	shes in t	he area?
	hat is the te change)	reason w	hy do	you cho	oose fisl	nery? (E	xpecte	ed ansv	wer is as sa	afety ne	t due to
	ave you so do they in							f not y	et sold, ask	the co-	operator
	what way per 2 in case		-		-	-		e chanş	ge? (Valida	ting que	stion for
	lave you alry? How d	•		-					ntroduced b	y the pi	roject in
	low many ry (men, wo						your f	fisheryʻ	? Who usu	ally ten	d to the
7. As	s a CCA op	tion how	had it l	nelped y	ou adju	st to clim	nate ch	nange?			
8 Ot	ther concer	ns									

### SPICACC FORM 11 AGRO-FORESTRY MONITORING FORM

Name:	Age:	Gender:
Name:Educational Attainment:		
Option Title		
Municipality/Barangay:		
How many seedlings have you availed from seedlings?		
2. Briefly describe the slope, terrain or soil co How far is the agro-forestry area from your farm?		
3. In what way do you see the benefits of agr protection from harsh climatic conditions; per etc)	ro-forestry to your f st control	arm? (The expected answers are:
4. Were you helped in the technical lay-out o	-	·
5. In how many years time do you expect ret	urns from the agro-	forestry?
6. In the community, have you heard from oth having one? In your honest opinion, what is tharvested at maturity?	the estimated incor	ne from your agro-forestry when
as your major source of income?		
7. How many hours do you usually tend to yo time (men, women, male child, female child)?		Who tend the agro-forestry most of the
8. What are the innovative practices introducthem?	ced by the project?	To what extent are you implementing
9. What were the problems encountered in y this occurred?	, ,	•
10. As a CCA option what benefits are you aw	vare of from the ag	ro-forestry project?
11. What were the sources of this awareness	5?	

### SPICACC FORM 12 NURSERY & GREENHOUSE

Name:	Age:	Gender:
Name:Educational Attainment:		
Option Title		
Municipality/Barangay:		
Procedure: 1. Conduct the narrative interview first. Durin operators must be along the four clusters of g data required with best effort as possible. 2. Insure that inventory and costing of seedling.	ood practices. Ded	uce the qualitative and quantitative
1. Kindly narrate the reason why the nursery the intervention of the SPICACC?	was established? W	as the nursery existing even prior to
2. What were the new crops, seedlings and ot with the intervention of SPICACC?	her varieties of crop	s, forest trees that were propagated
3. What forms of assistance were given to you lay-out of your agro-forestry area? By whom? How?	)	e.Were you helped in the technical
4. Aside from the SPICACC were there other a community and other agencies? How had the		
5. Describe in what way do you see the benef how had the establishment of nursery helped		•
6. Do you have any plans of making the nurser this?	ry income generatin	g? Describe how you intend to do
7. In the community, have you heard from oth one?	ers, who have nurs	ery, the economic benefit of having
8. How many hours do you usually tend to yo (men, women, male child, female child)?	u the nursery? Who	tend the nursery most of the time
8. What are the innovative practices introduc them?	ed by the project?	Γο what extent are you implementing
9. What were the problems encountered in the occurred?		•
10. As a CCA option what benefits are you aw	are of from the agro	p-forestry project?
11. What were the sources of this awareness?		

### SPICACC FORM 13 WATER MANAGEMENT

Name:	Age:	Gender:
Educational Attainment:		
Option Title		
Municipality/Barangay:		
Procedure:  1. Conduct the narrative interview first. During operators must be along the four clusters of ground the state of the state	ood practices.	
<ol> <li>Proceed with the interview. Insure that qu (i.e. scale or continuous) of vice-versa.</li> <li>Insure to gather data on the size of the wat benefits from it.</li> </ol>		
1. Kindly narrate the reason why the to the CCA option list) was established? Was toeven SPICACC?	here an existing prior to the intervented	ention of the
<ul><li>2. Where is the source of water?</li><li>3. What forms of assistance were given to you preparation?)</li><li>Describe.</li></ul>	u by the SPICACC?	(i.e.Were you helped in the technical
4. Aside from the SPICACC were there other a community and other agencies? How had the		——————————————————————————————————————
5. Describe in what way do you see the benef (i.e. how had the establishment of project help	•	
6. Do you have any plans of making the water you intend to do this?	management syst	em income generating? Describe how
7. In the community, have you heard from oth having one?	ners, who have wat	er system, the economic benefit of
8. How many hours do you usually maintainin time (men, women, male child, female child)?	ng the project? Wh	no tend to the composting most of the
8. What are the innovative practices introduce complement to crops?) To what extent are you		
9. What were the problems encountered in the occurred?		were the reasons why this

#### SPICACC FORM 14 SOIL MANAGEMENT

Name:	Age:	Gender:
Name:Educational Attainment:	&	
Option Title		
Municipality/Barangay:		
Procedure:		
1. Conduct the narrative interview first. During		expected responses of the co-
operators must be along the four clusters of good. Proceed with the interview. Insure that qual	•	vs followed by guantitative measure
(i.e. scale or continuous) of vice-versa.	illative data is alwa	ys followed by qualititative measure
(ner source of continuous) of thee versus		
1. Kindly narrate the reason why the	(identify	the project for the respondent, refer
to the CCA option list) was established? Was the	ere an existing	
even p	rior to the interver	tion of the SPICACC?
2. What forms of assistance were given to you	by the SDICACCO (i	a Ware you belood in the technical
2. What forms of assistance were given to you preparation?) Describe.	by the SPICACC? (I.	e.were you helped in the technical
preparation: ) Describe.		
4. Aside from the SPICACC were there other as:	•	
community and other agencies? How had the a	assistance complen	nented the SPICACC project?
		·····
C. Describe in what way do you see the banefit	s of baying the soil	management project system yersus
5. Describe in what way do you see the benefit having none at all? (i.e. how had the establishm	=	
change?)		ed them adapt to climate
6. Do you have any plans of making the soil mar	nagement system i	ncome generating? Describe how you
intend to do this?		
7. In the community, have you heard from othe	ers, who have pract	ice soil management, the economic
benefit of having one?	13, WIIO Have pract	ice son management, the economic
8. How many hours do you usually spend for co	omposting? Who to	end to the composting most of the
time (men, women, male child, female child)?		
0. What are the innevative practices introduced	d by the project /i	an the seil management or as a
9. What are the innovative practices introduced complement to crops?) To what extent are you		
complement to crops:) To what extent are you	i implementing the	···:
10. What were the problems encountered in the	ne project? What v	vere the reasons why this occurred?
11. As a CCA option what benefits are you awar	re of from propers	oil management?
11. 7.5 a COA Option what beliefts are you awar	ic of from propers	on management:
12. What were the sources of this awareness	s?	



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