



Republic of the Philippines  
**Department of Agriculture**  
**BUREAU OF AGRICULTURAL STATISTICS**



## Socio-Economic Characteristics of Farm Households in ARMM



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## 6. ACCESS TO GOVERNMENT PROGRAMS

	Philippines	ARMM
6.1 Percentage of households which were aware of government programs		
Crop farming	59.57	44.83
Livestock and poultry raising	15.84	13.41
Capture fishing and aquaculture	4.91	15.33

6.2 Percentage of households which were beneficiaries of government programs		
<b>CROP FARMING</b>		
Input subsidy	2.07	
Crop management	6.28	
<b>LIVESTOCK AND POULTRY RAISING</b>		
Artificial insemination	0.38	
Production program <sup>1</sup>	1.99	
Animal dispersal	4.91	1.09
<b>CAPTURE FISHING AND AQUACULTURE</b>		
Tilapia culture	0.96	
Credit assistance	0.27	
Provision of cages	0.82	
Development program	5.46	6.82

<sup>1</sup> Include nutrition, vaccination and deworming

## FOREWORD

This report has been generated from the results of the Integrated Farm Household Survey (IFHS) which collected important benchmark characteristics of farms and farming population in the country. The IFHS, with reference period July 2002 to June 2003, covered 5,920 farm households nationwide except in Batanes and Lanao del Sur. It utilized a two-stage stratified sampling design with provinces as the domain and the barangays and farm households as the primary and secondary sampling units, respectively. The sample barangays were drawn from the 1999 Barangay Screening Survey of the Bureau of Agricultural Statistics and were set at 6 for small provinces and 9 for large agricultural provinces. For each sample barangay, 10 sample farm households (i.e. those households with at least one member engaged in agricultural activities) were randomly selected using the 2000 Census of Population and Housing of the National Statistics Office.

This report puts together the statistical data that can characterize the **socio-economic conditions of farm households in ARMM**. To enhance appreciation and understanding of the regional condition, the national level data are included in the presentation of statistical tables. Other details of data regarding the region are contained in the IFHS main report entitled "Socio-Economic Characteristics of Farm Households in the Philippines".

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## 5. CREDIT INFORMATION

	Philippines	ARMM
<b>5.1 Percentage of households that availed loan</b>		
Less than 100,000	22.34	3.45
100,000 - 600,000	0.59	
More than 600,000	0.02	

<b>5.2 Percentage of households that availed loan by purpose</b>		
Agricultural production <sup>1</sup>	52.32	22.22
Education	19.71	22.22
Emergency purpose <sup>2</sup>	14.02	33.33
Business	13.46	22.22
House construction/repairs	7.05	
Payment for other loans	1.92	
Others <sup>3</sup>	3.93	

<sup>1</sup> Include crop, livestock and poultry production

<sup>2</sup> Includes hospitalization

<sup>3</sup> Include other purposes not elsewhere classified

<b>5.3 Percentage distribution of households that availed loan with and without collateral</b>		
With collateral	11.78	
Without collateral	88.22	100.00

<b>5.4 Percentage distribution of households that availed loan with and without guarantor</b>		
With guarantor	9.78	33.33
Without guarantor	90.22	66.67

<b>5.5 Percentage distribution of households that availed loan by type of amortization</b>		
Cash	84.53	88.89
In-kind	11.46	11.11
Cash and in-kind	4.01	

<b>5.6 Percentage of households by actual usage of loan obtained</b>		
Agricultural production <sup>1</sup>	49.46	33.33
Education	16.21	11.11
Emergency purpose <sup>2</sup>	9.44	44.44
Business	10.53	11.11
House constructions/repairs	5.60	
Payment for other loans	1.17	
Others <sup>3</sup>	11.61	

<sup>1</sup> Include crop, livestock and poultry production

<sup>2</sup> Includes hospitalization

<sup>3</sup> Include other purposes not elsewhere classified

<b>5.7 Percentage of households that pay amortization on time</b>	84.46	88.89
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#### 4. INCOME AND EXPENDITURE PATTERNS (continuation)

##### 4.2 HOUSEHOLD EXPENDITURES

	Philippines	ARMM
4.2.1 Average annual expenditures of farm households	97,395	80,346
Farm P	34,853	27,391
Food	40,187	37,439
Recurring expenses	9,726	6,161
Non-recurring expenses	12,629	9,355

4.2.2 Percentage distribution of annual household expenditures on food items		
Cereals	30.10	29.49
Cereal based products	5.98	4.87
Roots and tubers	1.63	7.13
Vegetables and spices	4.45	3.98
Fruits	2.99	3.75
Meat and meat preparations	19.82	7.92
Dairy and eggs	7.72	4.00
Fish and marine products	15.58	19.78
Coffee, chocolate and tea	2.83	4.95
Non-alcoholic beverages	2.60	2.80
Alcoholic beverages	2.56	0.90
Cigars and cigarettes	3.00	9.22
Other foods	0.74	1.20

4.2.3 Percentage distribution of annual household expenditures on recurring items		
Fuel, light and water	24.67	24.05
Household operations	23.88	24.48
Transportation and communication	18.30	17.89
Pocket money for children/others	18.82	21.23
Personal care and effects	11.52	11.82
Leisure and recreation	2.81	0.52

4.2.4 Percentage distribution of annual household expenditures on non-recurring items		
Clothing, shoes and other similar items	12.05	21.00
Education	42.30	42.06
Recreation	1.56	7.76
Medical care	9.82	6.11
Furniture/equipment	2.66	6.15
Income/business tax	2.64	0.59
Maintenance and repairs	4.88	2.43
Gifts and contributions	1.83	3.95
Special family occasions	2.51	6.68
Purchase/amortization of real property	1.70	0.08
Insurance/pre-need plans and other related expenses	1.53	0.90
Other non-recurring items	16.52	2.28

## HIGHLIGHTS

### Household Characteristics

- The average family size of farm households in the region was 5.67.
- Farm households headed by males were 94.25 percent. Average age of the household heads was 44 years.
- Among household heads, 16.86 percent and 16.48 percent were elementary and high school graduates, respectively. Degree holders were 1.92 percent.
- The main occupation of 82.87 percent of household heads was farming.

### Farm Characteristics

- Farm households engaged in crop farming were 87.36 percent of all households, 70.11 percent were into livestock and poultry raising, and 33.72 percent were in capture fishing and aquaculture.
- The average number of farm parcels operated by households was 1.27. Fully owned farm parcels have the biggest average size of 2.59 hectares while rent-free parcels have the smallest size of 0.66 hectare.
- Only 8 percent of the region's farm areas were irrigated. About 36.67 percent each were serviced by the National Irrigation Administration (NIA) and Communal Irrigation System.
- Average inventory of farm investments of farm households was valued at P8,431

### Farm Enterprise

- Coconut was the major crop grown by 73.68 percent of the farm households. Those who planted palay and corn were 41.67 percent and 43.86 percent of the households, respectively.
- Most of the households raised livestock and poultry as backyard farms.
- Among households, 77.27 percent were engaged in marine fishing while 20.45 percent were into inland fishing.
- In aquaculture, 73.53 percent of the households were engaged in seaweed farming.

### Income and Expenditure Patterns

- Average annual income of farm households amounted to P84,569. About 63.86 percent of the farm household income amounting to P54,004 came from farming. Non-farm income contributed 16.43 percent to total income which amounted to P13,892.
- About 78.62 percent of the farm income were sourced from crop farming, of which 34.06 percent came from coconut production.
- By farm enterprise, crop farming recorded the highest net income at P25,175. The lowest was in livestock and poultry raising at P1,762.
- Average annual expenditures of farm household amounted to P80,346. The biggest portion of household expenditures at 46.60 percent was spent on food followed by farm expenses at 34.09 percent.
- Of the total food expenditures, cereals shared 29.49 percent while fish and marine products accounted for 19.78 percent.
- Recurring expenses comprised 7.67 percent of the total household expenditures, 24.48 percent were spent for household operations. Another 24.05 percent went to fuel, light and water consumption.
- Non-recurring items accounted for 11.64 percent of total expenditures, of which education accounted for 42 percent.

### Credit Information

- Only 3.45 percent of farm households availed of loans worth less than P100,000. Among the borrowers, 33.33 percent availed loans for emergency purposes.

### Access to Government Programs

- Farm households which were aware on government programs in crop farming were 44.83 percent, 13.41 percent in livestock and poultry raising, and 15.33 percent in capture fishing and aquaculture.
- Farmer beneficiaries comprised only 1.09 percent in animal dispersal program and 6.82 percent in capture fishing and aquaculture development program.

## 4. INCOME AND EXPENDITURE PATTERNS

### 4.1 HOUSEHOLD INCOME

	Philippines	ARMM
4.1.1 Average annual income of farm households by source	106,181	84,569
Farm	57,628	54,004
Off-farm	6,763	11,118
Non-farm	31,389	13,892
Other sources	10,401	5,555

4.1.2 Percentage distribution of farm income by enterprise		
Crop farming	73.21	78.62
Livestock and poultry raising	13.82	7.26
Capture fishing and aquaculture	12.05	14.12
Others	0.92	

4.1.3 Percentage distribution of farm income from crop farming		
Palay	47.49	14.20
Corn	11.84	12.06
Other temporary crops	10.05	15.61
Coconut	11.35	34.06
Other permanent crops	18.65	23.52
Crop by-products	0.62	0.55

4.1.4 Production expenses and returns above cash expenses by farm enterprise*		
<b>Crop farming</b>		
Production expenses	P 27,268	23,427
Returns above cash expenses	36,807	41,715
<b>Livestock and poultry raising</b>		
Production expenses	P 9,608	3,832
Returns above cash expenses	5,396	3,728
<b>Capture fishing and aquaculture</b>		
Production expenses	P 23,982	12,021
Returns above cash expenses	35,402	17,077

4.1.5 Average net income by farm enterprise*		
Crop farming	P 18,012	25,175
Livestock and poultry raising	1,402	1,762
Capture fishing and aquaculture	21,896	9,610

\* Data represents the averages of households engaged in particular farm enterprise

### 3. FARM ENTERPRISE (continuation)

#### 3.3 CAPTURE FISHING AND AQUACULTURE

	Philippines	ARMM
3.3.1 Percentage of households engaged in capture fishing by type		
Marine fishing	64.81	77.27
Inland fishing	31.71	20.45
Gathering of shells, aquarium fish, etc.	16.27	23.22

3.3.2 Percentage of households engaged in aquaculture by type of farm		
Fishpond	15.24	4.41
Fishpen	0.21	
Fishcage	0.43	
Seaweed farming	13.73	73.53
Hatchery	0.43	

#### 3.4 SPECIAL AGRICULTURAL ACTIVITIES AND HOME PROCESSING OF AGRICULTURAL PRODUCTS

3.4.1 Percentage of households engaged in special agricultural activities		
Cutflowers and ornamentals	0.31	
Handicrafts <sup>1</sup>	0.52	
Others <sup>2</sup>	1.06	

<sup>1</sup> Include plate making, bag weaving, hat, mat, saklob and papag making, and nipa thatches

<sup>2</sup> Include honey bee and wax making, mushroom and tuba gathering

3.4.2 Percentage of households engaged in home processing of agricultural products		
Cereal based products <sup>1</sup>	0.35	
Fishery products <sup>2</sup>	0.20	
Meat products <sup>3</sup>	0.04	
Others <sup>4</sup>	0.26	

<sup>1</sup> Include baye-baye, bitsu-bitsu, suman, camote/banana cue, puto/bibingka and sinacol/cassava cake

<sup>2</sup> Include dried fish and bagoong

<sup>3</sup> Include embotido and morcon

<sup>4</sup> Include ice cream, and pili nut candies

### 1. CHARACTERISTICS OF FARM HOUSEHOLDS

	Philippines	ARMM
1.1 Average household size	5.07	5.67

1.2 Percentage distribution of household heads by sex		
Male	89.33	94.25
Female	10.67	5.75

1.3 Average age of household heads	49 years	44 years
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1.4 Percentage distribution of household heads by educational attainment		
Elementary level	40.38	30.65
Elementary graduate	16.45	16.86
High school level	14.13	14.56
High school graduate	13.78	16.48
Vocational	2.06	
College level	5.17	4.21
College graduate	4.67	1.92
Post graduate	0.16	0.38
No schooling	3.20	14.94

1.5 Percentage distribution of household heads by main occupation		
Officials of government	1.35	
Professionals	0.98	0.56
Technicians and associate professionals	0.41	
Clerks	0.29	0.28
Service workers and shop and market sales workers	1.33	
<b>Farmer</b>	<b>79.05</b>	<b>82.87</b>
Palay	35.77	8.71
Corn	12.01	7.58
Coconut	12.44	30.06
Others	18.83	36.52
Fishing	5.79	11.80
Trades and related workers	2.88	0.56
Plant and machine operators and assemblers	2.81	0.56
Laborers and unskilled workers	3.85	1.97
Special occupations	1.26	1.40

1.6 Percentage of household heads by membership in organization		
Community development	6.33	1.15
Consumer cooperative	0.69	2.68
Credit cooperative	1.56	0.77
Marketing cooperative	0.30	
Multi-purpose cooperative	4.39	2.68
Producer cooperative	0.85	
Service cooperative	1.78	

## 2. FARM CHARACTERISTICS

	Philippines	ARMM
2.1 Percentage of farm households by farm enterprise		
Crop farming	93.18	87.36
Livestock and poultry raising	72.42	70.11
Capture fishing and aquaculture	13.32	33.72
Special agricultural activities	1.89	
Home processing of agricultural products	0.85	

2.2 Average number of farm parcels	1.66	1.27
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2.3 Average size of farm parcels by tenure (in hectare)		
Fully owned	1.08	2.59
Tenanted	1.03	2.28
Leased/rented	0.83	0.76
Rent free	0.56	0.66
Held under CLT/CLOA	0.98	0.67
Owner-like possession other than CLT / CLOA	0.81	1.65

2.4 Percentage distribution of farm parcels by location		
Within the city/municipality	97.56	97.05
Within the province	2.44	2.95

2.5 Percentage distribution of farm parcels by main use		
Homelot	21.34	7.23
Under temporary crop/s	55.15	39.76
Under permanent crop/s	21.35	40.06
Livestock farm	0.79	0.30
Poultry farm	0.19	0.30
Aquaculture farm	0.69	12.05
Others	0.48	0.30

2.6 Percentage share of irrigated farm parcels in total farm area	22.00	8.08
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2.7 Percentage distribution of irrigated farm parcels by source of irrigation		
National Irrigation System	29.96	36.67
Communal Irrigation System	35.69	36.67
Individual/Private Irrigation System	34.35	26.66

2.8 Average inventory of farm investments by major item		
Farm building and structures P	2,057	806
Farm machineries and transport equipment	6,258	6,156
Farm tools, equipment and other supplies	1,216	1,339
Fishing gear	83	130

## 3. FARM ENTERPRISE

### 3.1 CROP FARMING

	Philippines	ARMM
3.1.1 Percentage of households reporting on the type of crops grown		
Palay	59.81	41.67
Corn	35.70	43.86
Other temporary crops	43.29	84.22
Coconut	44.03	73.68
Banana	23.85	23.25
Mango	13.52	35.96
Other permanent crops	24.37	84.65

3.1.2 Percentage of households using inorganic fertilizer for palay and corn				
<b>FERTILIZER</b>	Palay	Corn	Palay	Corn
Urea	55.56	42.80	16.56	18.18
Ammonium phosphate	18.17	20.43	11.46	16.16
Potassium chloride	1.85	0.80	1.27	1.01
Complete	12.40	9.65	5.73	8.08
Others	40.63	33.29	8.28	8.08

3.1.3 Percentage of households applying pesticides for palay and corn				
<b>PESTICIDE</b>	Palay	Corn	Palay	Corn
Insecticides	60.34	11.86	22.29	5.05
Weedicides/herbicides	33.16	5.29	9.55	
Others	4.18	0.47	3.18	4.04

### 3.2 LIVESTOCK AND POULTRY RAISING

3.2.1 Percentage of households raising livestock by purpose/farm type				
<b>LIVESTOCK</b>	Comm'l.	Backyard*	Comm'l.	Backyard*
Carabao	0.37	40.44		39.22
Cattle	0.46	26.23	0.65	64.05
Hog	2.50	63.73	3.27	5.88
Goat	0.19	15.54	0.65	31.37
Others		4.63		

3.2.2 Percentage of households raising poultry by purpose/farm type				
<b>POULTRY</b>	Comm'l.	Backyard*	Comm'l.	Backyard*
Native chicken	1.11	83.26	6.08	91.89
Foreign/Layer chicken	0.37	8.57		
Broiler	0.20	3.29		1.36
Mallard	0.27	7.59		10.44
Others	0.34	7.06		6.08

\*Includes subsistence farming