



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



## Socio-Economic Characteristics of Farm Households in CARAGA



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## 6. ACCESS TO GOVERNMENT PROGRAMS

	Philippines	CARAGA
6.1 Percentage of households which were aware of government programs		
Crop farming	59.57	37.74
Livestock and poultry raising	15.84	18.49
Capture fishing and aquaculture	4.91	4.91

6.2 Percentage of households which were beneficiaries of government programs		
<b>CROP FARMING</b>		
Input subsidy	2.07	1.16
Crop management	6.28	5.43
<b>LIVESTOCK AND POULTRY RAISING</b>		
Artificial insemination	0.38	
Production program <sup>1</sup>	1.99	1.76
Animal dispersal	4.91	4.71
<b>CAPTURE FISHING AND AQUACULTURE</b>		
Tilapia culture	0.96	
Credit assistance	0.27	
Provision of cages	0.82	2.86
Development program	5.46	

<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 CARAGA**. 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	CARAGA
5.1 Percentage of households that availed loan		
Less than 100,000	22.34	15.85
100,000 - 600,000	0.59	1.51
More than 600,000	0.02	

5.2 Percentage of households that availed loan by purpose		
Agricultural production <sup>1</sup>	52.32	28.26
Education	19.71	23.91
Emergency purpose <sup>2</sup>	14.02	10.87
Business	13.46	21.74
House constructions/repairs	7.05	13.04
Payment for other loans	1.92	4.35
Others <sup>3</sup>	3.93	2.17

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

<sup>2</sup> Includes hospitalization

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

5.3 Percentage distribution of households that availed loan with and without collateral		
With collateral	11.78	26.09
Without collateral	88.22	73.91

5.4 Percentage distribution of households that availed loan with and without guarantor		
With guarantor	9.78	15.22
Without guarantor	90.22	84.78

5.5 Percentage distribution of households that availed loan by type of amortization		
Cash	84.53	93.48
In-kind	11.46	6.52
Cash and in-kind	4.01	

5.6 Percentage of households by actual usage of loan obtained		
Agricultural production <sup>1</sup>	49.46	21.43
Education	16.21	19.05
Emergency purpose <sup>2</sup>	9.44	11.90
Business	10.53	11.90
House constructions/repairs	5.60	9.52
Payment for other loans	1.17	7.14
Others <sup>3</sup>	11.61	19.05

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

<sup>2</sup> Includes hospitalization

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

5.7 Percentage of households that pay amortization on time	84.46	80.43
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#### 4. INCOME AND EXPENDITURE PATTERNS (continuation)

##### 4.2 HOUSEHOLD EXPENDITURES

	Philippines	CARAGA
4.2.1 Average annual expenditures of farm households	97,395	68,955
Farm	34,853	24,243
Food	40,187	31,385
Recurring expenses	9,726	4,941
Non-recurring expenses	12,629	8,386

4.2.2 Percentage distribution of annual household expenditures on food items		
Cereals	30.10	35.24
Cereal based products	5.98	4.94
Roots and tubers	1.63	2.52
Vegetables and spices	4.45	3.26
Fruits	2.99	2.89
Meat and meat preparations	19.82	15.77
Dairy and eggs	7.72	7.45
Fish and marine products	15.58	19.23
Coffee, chocolate and tea	2.83	2.06
Non-alcoholic beverages	2.60	2.81
Alcoholic beverages	2.56	1.63
Cigars and cigarettes	3.00	2.02
Other foods	0.74	0.19

4.2.3 Percentage distribution of annual household expenditures on recurring items		
Fuel, light and water	24.67	24.16
Household operations	23.88	15.77
Transportation and communication	18.30	21.10
Pocket money for children/others	18.82	22.43
Personal care and effects	11.52	13.10
Leisure and recreation	2.81	3.43

4.2.4 Percentage distribution of annual household expenditures on non-recurring items		
Clothing, shoes and other similar items	12.05	14.23
Education	42.30	38.40
Recreation	1.56	0.96
Medical care	9.82	8.29
Furniture/equipment	2.66	0.98
Income/business tax	2.64	7.35
Maintenance and repairs	4.88	7.31
Gifts and contributions	1.83	1.37
Special family occasions	2.51	2.68
Purchase/amortization of real property	1.70	0.73
Insurance/pre-need plans and other related expenses	1.53	0.23
Other non-recurring items	16.52	17.47

## HIGHLIGHTS

### Household Characteristics

- The average size of farm households was 5.06.
- About 91.32 percent of the households were headed by males. Average age of the household heads was 47 years.
- Around 96.23 percent of the household heads had formal education. Elementary and high school graduates each comprised 14 percent of the household heads. About 4.53 percent were college degree holders.
- Farming was the main occupation of 76.08 percent of household heads.

### Farm Characteristics

- Nearly all or 97.36 percent of farm households were engaged in crop farming. Another 64.15 percent were also involved in livestock and poultry raising.
- The number of farm parcels operated by households averaged 1.49. Farm parcels held under owner-like possession other than CLT/CLOA had the biggest average size of 1.67 hectares. The small-size parcels at 1.08 hectares were those leased or rented.
- More than half of the region's farm parcels were devoted to growing of temporary crops. Those under permanent crops accounted for 36.06 percent of all farm parcels.
- About 12.13 percent of the region's farm parcels were irrigated with 55 percent serviced by Communal Irrigation System.
- Average inventory of investments on farm machineries and transport equipment was valued at P2,745. Average investments in farm building and structures was P537 while farm tools, equipment and other supplies, and fishing gears totaled P430.

### Farm Enterprise

- Coconut was cultivated by 63.95 percent of farm households. Growing of palay was cited by 44.96 percent, banana by 31.78 percent and corn by 24.42 percent.
- Backyard raising of hogs was reported by 79.59 percent of households. Native chicken was also raised by 93.86 percent on backyard farm.
- About 88.57 percent of the households were engaged in marine fishing.

### Income and Expenditure Patterns

- Annual income of farm households averaged P73,356. Nearly half of the household income or P34,026 came from farming. Non-farm income amounted to P24,936.
- About 64.35 percent of the income from farming activities came from crop production with the bulk or 54.82 percent coming from palay.
- By farm enterprise, capture fishing and aquaculture generated the highest net income at P29,902. This amounted only to P5,262 in crop farming and P458 in livestock and poultry raising.
- Annual expenditures of farm households averaged P68,955. The biggest portion of household expenditures at 45.52 percent was spent on food. Farm expenses accounted 35.16 percent of household expenses.
- Among food expenditures, cereals shared 35.24 percent. Fish and marine products accounted for 19.23 percent while meat and meat preparations got 15.77 percent.
- Recurring expenses comprised 7.16 percent of the total household expenditures. Non-recurring expenses constituted 12.16 percent.

### Credit Information

- Of the total farm households, 15.85 percent availed of loans worth less than P100,000. About 28.26 percent of the borrowers availed loans for agricultural production, and 23.91 percent for education of household member.

### Access to Government Program

- Awareness on government programs in crop farming was cited by 37.74 percent of farm households. About 18.49 percent reported familiarity with programs on livestock and poultry raising and 4.91 percent on capture fishing and aquaculture
- Smaller proportions of farm households were benefited with programs on crop management at 5.43 percent, animal dispersal at 4.71 percent and provision of fish cages at 2.86 percent.

## 4. INCOME AND EXPENDITURE PATTERNS

### 4.1 HOUSEHOLD INCOME

	Philippines	CARAGA
4.1.1 Average annual income of farm households by source	106,181	73,356
Farm	P 57,628	34,026
Off-farm	6,763	5,737
Non-farm	31,389	24,936
Other sources	10,401	8,657

4.1.2 Percentage distribution of farm income by enterprise		
Crop farming	73.21	64.35
Livestock and poultry raising	13.82	11.48
Capture fishing and aquaculture	12.05	23.90
Others	0.92	0.27

4.1.3 Percentage distribution of farm income from crop farming		
Palay	47.49	54.82
Corn	11.84	7.80
Other temporary crops	10.05	2.84
Coconut	11.35	19.40
Other permanent crops	18.65	13.82
Crop by-products	0.62	1.32

4.1.4 Production expenses and returns above cash expenses by farm enterprise*		
<b>Crop farming</b>		
Production expenses	P 27,268	17,227
Returns above cash expenses	36,807	16,641
<b>Livestock and poultry raising</b>		
Production expenses	P 9,608	5,934
Returns above cash expenses	5,396	2,979
<b>Capture fishing and aquaculture</b>		
Production expenses	P 23,982	26,815
Returns above cash expenses	35,402	48,438

4.1.5 Average net income by farm enterprise*		
Crop farming	P 18,012	5,262
Livestock and poultry raising	1,402	458
Capture fishing and aquaculture	21,896	29,902

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

### 3. FARM ENTERPRISE (continuation)

#### 3.3 CAPTURE FISHING AND AQUACULTURE

	Philippines	CARAGA
3.3.1 Percentage of households engaged in capture fishing by type		
Marine fishing	64.81	88.57
Inland fishing	31.71	17.14
Gathering of shells, aquarium fish, etc.	16.27	8.57

3.3.2 Percentage of households engaged in aquaculture by type of farm		
Fishpond	15.24	
Fishpen	0.21	
Fishcage	0.43	3.23
Seaweed farming	13.73	
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	0.38
Handicrafts <sup>1</sup>	0.52	
Others <sup>2</sup>	1.06	0.38

<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	0.38

<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 pill nut candies

### 1. CHARACTERISTICS OF FARM HOUSEHOLDS

	Philippines	CARAGA
1.1 Average household size	5.07	5.06

1.2 Percentage distribution of household heads by sex		
Male	89.33	91.32
Female	10.67	8.68

1.3 Average age of household heads		
	49 years	47 years

1.4 Percentage distribution of household heads by educational attainment		
Elementary level	40.38	43.40
Elementary graduate	16.45	13.96
High school level	14.13	14.72
High school graduate	13.78	13.58
Vocational	2.06	1.13
College level	5.17	4.91
College graduate	4.67	4.53
Post graduate	0.16	
No schooling	3.20	3.77

1.5 Percentage distribution of household heads by main occupation		
Officials of government	1.35	2.90
Professionals	0.98	0.73
Technicians and associate professionals	0.41	
Clerks	0.29	1.09
Service workers and shop and market sales workers	1.33	2.90
<b>FARMER</b>	<b>79.05</b>	<b>76.08</b>
Palay	35.77	27.17
Corn	12.01	6.88
Coconut	12.44	18.12
Others	18.83	23.91
Fishing	5.79	9.42
Trades and related workers	2.88	2.90
Plant and machine operators and assemblers	2.81	0.36
Laborers and unskilled workers	3.85	2.17
Special occupations	1.26	1.45

1.6 Percentage of household heads by membership in organization		
Community development	6.33	9.43
Consumer cooperative	0.69	0.38
Credit cooperative	1.56	1.51
Marketing cooperative	0.30	0.38
Multi-purpose cooperative	4.39	4.53
Producers cooperative	0.85	2.26
Service cooperative	1.78	3.40

## 2. FARM CHARACTERISTICS

	Philippines	CARAGA
2.1 Percentage of farm households by farm enterprise		
Crop farming	93.18	97.36
Livestock and poultry raising	72.42	64.15
Capture fishing and aquaculture	13.32	13.21
Special agricultural activities	1.89	0.75
Home processing of agricultural products	0.85	0.38

2.2 Average number of farm parcels	1.66	1.49
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2.3 Average size of farm parcels by tenure (in hectare)		
Fully owned	1.08	1.35
Tenanted	1.03	1.21
Leased/rented	0.83	1.08
Rent free	0.56	1.26
Held under CLT/CLOA	0.98	1.14
Owner-like possession other than CLT / CLOA	0.81	1.67

2.4 Percentage distribution of farm parcels by location		
Within the city/municipality	97.56	92.96
Within the province	2.44	7.04

2.5 Percentage distribution of farm parcels by main use		
Homelot	21.34	9.97
Under temporary crop/s	55.15	53.71
Under permanent crop/s	21.35	36.06
Livestock farm	0.79	
Poultry farm	0.19	
Aquaculture farm	0.69	
Others	0.48	0.26

2.6 Percentage share of irrigated farm parcels in total farm area	22.00	12.13
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2.7 Percentage distribution of irrigated farm parcels by source of irrigation		
National Irrigation System	29.96	18.33
Communal Irrigation System	35.69	55.00
Individual/Private Irrigation System	34.35	26.67

2.8 Average inventory of farm investments by major item		
Farm building and structures	P 2,057	537
Farm machineries and transport equipment	6,258	2,745
Farm tools, equipment and other supplies	1,216	389
Fishing gear	83	41

## 3. FARM ENTERPRISE

### 3.1 CROP FARMING

	Philippines	CARAGA
3.1.1 Percentage of households reporting on the type of crops grown		
Palay	59.81	44.96
Corn	35.70	24.42
Other temporary crops	43.29	50.01
Coconut	44.03	63.95
Banana	23.85	31.78
Mango	13.52	10.85
Other permanent crops	24.37	24.42

3.1.2 Percentage of households using inorganic fertilizer for palay and corn				
FERTILIZER	Palay	Corn	Palay	Corn
Urea	55.56	42.80	36.55	29.31
Ammonium phosphate	18.17	20.43	15.17	3.45
Potassium chloride	1.85	0.80	1.38	
Complete	12.40	9.65	15.86	3.45
Others	40.63	33.29	46.90	13.79

3.1.3 Percentage of households applying pesticides for palay and corn				
PESTICIDE	Palay	Corn	Palay	Corn
Insecticides	60.34	11.86	66.90	6.90
Weedicides/herbicides	33.16	5.29	38.62	
Others	4.18	0.47	5.52	1.72

### 3.2 LIVESTOCK AND POULTRY RAISING

3.2.1 Percentage of households raising livestock by purpose/farm type				
LIVESTOCK	Comm'l.	Backyard*	Comm'l.	Backyard*
Carabao	0.37	40.44		42.86
Cattle	0.46	26.23		8.16
Hog	2.50	63.73	1.36	79.59
Goat	0.19	15.54	1.36	10.88
Others		4.63		0.68

3.2.2 Percentage of households raising poultry by purpose/farm type				
POULTRY	Comm'l.	Backyard*	Comm'l.	Backyard*
Native chicken	1.11	83.26	1.75	93.86
Foreign/Layer chicken	0.37	8.57		0.88
Broiler	0.20	3.29	0.88	1.75
Mallard	0.27	7.59		3.66
Others	0.34	7.06		2.63

\*Includes subsistence farming