



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



## Socio-Economic Characteristics of Farm Households in Northern Mindanao



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## 6. ACCESS TO GOVERNMENT PROGRAMS

	Philippines	Region X
6.1 Percentage of households which were aware of government programs		
Crop farming	59.57	46.19
Livestock and poultry raising	15.84	16.80
Capture fishing and aquaculture	4.91	6.04

6.2 Percentage of households which were beneficiaries of government programs		
<b>CROP FARMING</b>		
Input subsidy	2.07	2.55
Crop management	6.28	9.07
<b>LIVESTOCK AND POULTRY RAISING</b>		
Artificial insemination	0.38	
Production program <sup>1</sup>	1.99	1.03
Animal dispersal	4.91	2.76
<b>CAPTURE FISHING AND AQUACULTURE</b>		
Tilapia culture	0.96	
Credit assistance	0.27	3.23
Provision of cages	0.82	
Development program	5.46	16.13

<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 Northern Mindanao**. 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	Region X
5.1 Percentage of households that availed loan		
Less than 100,000	22.34	17.85
100,000 - 600,000	0.59	0.52
More than 600,000	0.02	

5.2 Percentage of households that availed loan by purpose		
Agricultural production <sup>1</sup>	52.32	31.43
Education	19.71	17.14
Emergency purpose <sup>2</sup>	14.02	18.57
Business	13.46	20.00
House constructions/repairs	7.05	12.86
Payment for other loans	1.92	5.71
Others <sup>3</sup>	3.93	5.71

<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	12.86
Without collateral	88.22	87.14

5.4 Percentage distribution of households that availed loan with and without guarantor		
With guarantor	9.78	4.29
Without guarantor	90.22	95.71

5.5 Percentage distribution of households that availed loan by type of amortization		
Cash	84.53	92.87
In-kind	11.46	4.29
Cash and in-kind	4.01	2.86

5.6 Percentage of households by actual usage of loan obtained		
Agricultural production <sup>1</sup>	49.46	31.43
Education	16.21	11.43
Emergency purpose <sup>2</sup>	9.44	11.43
Business	10.53	15.71
House constructions/repairs	5.60	11.43
Payment for other loans	1.17	1.43
Others <sup>3</sup>	11.61	21.43

<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	88.57
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#### 4. INCOME AND EXPENDITURE PATTERNS (continuation)

##### 4.2 HOUSEHOLD EXPENDITURES

	Philippines	Region X
4.2.1 Average annual expenditures of farm households	97,395	79,008
Farm	34,853	37,182
Food	40,187	30,458
Recurring expenses	9,726	5,738
Non-recurring expenses	12,629	5,630

4.2.2 Percentage distribution of annual household expenditures on food items		
Cereals	30.10	43.49
Cereal based products	5.98	4.79
Roots and tubers	1.63	1.32
Vegetables and spices	4.45	3.08
Fruits	2.99	2.27
Meat and meat preparations	19.82	13.09
Dairy and eggs	7.72	9.36
Fish and marine products	15.58	13.65
Coffee, chocolate and tea	2.83	2.13
Non-alcoholic beverages	2.60	2.44
Alcoholic beverages	2.56	1.51
Cigars and cigarettes	3.00	2.07
Other foods	0.74	0.78

4.2.3 Percentage distribution of annual household expenditures on recurring items		
Fuel, light and water	24.67	20.55
Household operations	23.88	27.46
Transportation and communication	18.30	18.11
Pocket money for children/others	18.82	15.99
Personal care and effects	11.52	15.47
Leisure and recreation	2.81	2.42

4.2.4 Percentage distribution of annual household expenditures on non-recurring items		
Clothing, shoes and other similar items	12.05	16.53
Education	42.30	40.01
Recreation	1.56	1.01
Medical care	9.82	9.68
Furniture/equipment	2.66	3.51
Income/business tax	2.64	2.11
Maintenance and repairs	4.88	4.25
Gifts and contributions	1.83	2.42
Special family occasions	2.51	1.49
Purchase/amortization of real property	1.70	1.95
Insurance/pre-need plans and other related expenses	1.53	0.50
Other non-recurring items	16.52	16.52

## HIGHLIGHTS

### Household Characteristics

- The size of farm households in the region averaged 5.20.
- About 87 percent of households were headed by males. Average age of the household heads was 47 years.
- Of all household heads, 99 percent had formal education. However, only 3 percent were college graduates.
- Farming was the main occupation of 80 percent of household heads. Corn farmers were 29 percent, 18 percent were coconut growers and 10 percent were palay producers.

### Farm Characteristics

- About 93 percent of the farm households were engaged in crop farming and 76 percent were into livestock and poultry raising.
- The average number of farm parcels managed by households was 1.47. By tenurial status, leased/rented farm parcels comprised the biggest average size of 1.71 hectares. The smallest at 0.94 hectare were held under rent-free agreement.
- Around 49 percent of farm parcels were planted to temporary crops and 32 percent under permanent crops.
- About 8 percent of the region's farm parcels were irrigated. Almost 73 percent of the irrigated areas were serviced by the National Irrigation System (NIA).
- The value of average inventory of farm investments in the region was highest at P5,369 for farm machineries and transport equipment. Investments on farm tools, equipment and other supplies averaged P789, on farm building and structures, P448 and for fishing gears, P101.

### Farm Enterprise

- Corn was the crop grown by 60 percent of the households. Coconut was cultivated by 45 percent of households while banana by 31 percent. Only 18 percent of households planted palay.
- Backyard raising of hog and native chicken was reported by 71 percent and 84 percent of the households, respectively.
- Households engaged in marine fishing comprised 77 percent while 21 percent were into inland fishing.
- Ten percent of the households were into fishpond operations.

### Income and Expenditure Patterns

- Annual income of farm households averaged P82,299. About 61 percent of the farm household income or P49,988 came from farming. Non-farm income contributed 28 percent to total income which amounted to P23,279.
- Of the total farm income, 84 percent came from crop production, of which, 41 percent from corn, 23 percent from palay and 19 percent from coconut.
- Among farm enterprises, capture fishing and aquaculture generated the highest net returns at P10,587. This amounted to P3,154 in crop farming and P846 in livestock and poultry raising.
- Annual expenditures of households averaged P79,007. Around 39 percent of household expenditures was spent on food while farm expenses accounted for 47 percent.
- Cereals shared 44 percent in the total food expenditures while fish and marine products accounted for 14 percent.
- Recurring expenses comprised 7 percent of the total household expenditures with 27 percent were intended for household operations.
- Non-recurring expenses also accounted for 7 percent of household expenditures, 40 percent of which were intended for education of household members.

### Credit Information

- About 18 percent of farm households availed of loans worth less than P100,000. Around 31 percent of the borrowers availed loans for agricultural production.

### Access to Government Program

- Awareness on government programs in crop farming was cited by 46 percent of farm households. About 17 percent of the households showed familiarity with programs on livestock and poultry raising and 6 percent on capture fishing and aquaculture.
- Of all households, 19 percent were beneficiaries of government programs on capture fishing and aquaculture, 12 percent on crop farming and 4 percent on livestock and poultry raising.

## 4. INCOME AND EXPENDITURE PATTERNS

### 4.1 HOUSEHOLD INCOME

	Philippines	Region X
4.1.1 Average annual income of farm households by source	106,181	82,299
Farm	P 57,628	49,988
Off-farm	6,763	4,256
Non-farm	31,389	23,279
Other sources	10,401	4,776

4.1.2 Percentage distribution of farm income by enterprise		
Crop farming	73.21	84.06
Livestock and poultry raising	13.82	9.29
Capture fishing and aquaculture	12.05	6.19
Others	0.92	0.46

4.1.3 Percentage distribution of farm income from crop farming		
Palay	47.49	23.14
Corn	11.84	41.11
Other temporary crops	10.05	4.11
Coconut	11.35	18.58
Other permanent crops	18.65	12.59
Crop by-products	0.62	0.47

4.1.4 Production expenses and returns above cash expenses by farm enterprise*		
<b>Crop farming</b>		
Production expenses	P 27,268	42,202
Returns above cash expenses	36,807	35,494
<b>Livestock and poultry raising</b>		
Production expenses	P 9,608	5,235
Returns above cash expenses	5,396	3,642
<b>Capture fishing and aquaculture</b>		
Production expenses	P 23,982	8,423
Returns above cash expenses	35,402	15,086

4.1.5 Average net income by farm enterprise*		
Crop farming	P 18,012	3,154
Livestock and poultry raising	1,402	846
Capture fishing and aquaculture	21,896	10,587

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

### 3. FARM ENTERPRISE (continuation)

#### 3.3 CAPTURE FISHING AND AQUACULTURE

	Philippines	Region X
3.3.1 Percentage of households engaged in capture fishing by type		
Marine fishing	64.81	77.42
Inland fishing	31.71	20.97
Gathering of shells, aquarium fish, etc.	16.27	14.52

3.3.2 Percentage of households engaged in aquaculture by type of farm	Philippines	Region X
Fishpond	15.24	10.42
Fishpen	0.21	
Fishcage	0.43	
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	Philippines	Region X
Cutflowers and ornamentals	0.31	0.26
Handicrafts <sup>1</sup>	0.52	
Others <sup>2</sup>	1.06	1.05

<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	Philippines	Region X
Cereal based products <sup>1</sup>	0.35	0.52
Fishery products <sup>2</sup>	0.20	0.26
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 pilli nut candies

### 1. CHARACTERISTICS OF FARM HOUSEHOLDS

	Philippines	Region X
1.1 Average household size	5.07	5.20

1.2 Percentage distribution of household heads by sex	Philippines	Region X
Male	89.33	86.61
Female	10.67	13.39

1.3 Average age of household heads	Philippines	Region X
	49 years	47 years

1.4 Percentage distribution of household heads by educational attainment	Philippines	Region X
Elementary level	40.38	46.19
Elementary graduate	16.45	9.97
High school level	14.13	18.90
High school graduate	13.78	14.70
Vocational	2.06	1.84
College level	5.17	3.94
College graduate	4.67	3.41
Post graduate	0.16	
No schooling	3.20	1.05

1.5 Percentage distribution of household heads by main occupation	Philippines	Region X
Officials of government	1.35	1.06
Professionals	0.98	0.80
Technicians and associate professionals	0.41	
Clerks	0.29	0.26
Service workers and shop and market sales workers	1.33	1.59
<b>FARMER</b>	<b>79.05</b>	<b>80.37</b>
Palay	35.77	10.08
Corn	12.01	29.44
Coconut	12.44	17.77
Others	18.83	23.08
Fishing	5.79	6.10
Trades and related workers	2.88	1.59
Plant and machine operators and assemblers	2.81	3.45
Laborers and unskilled workers	3.85	3.45
Special occupations	1.26	1.33

1.6 Percentage of household heads by membership in organization	Philippines	Region X
Community development	6.33	6.56
Consumer cooperative	0.69	1.05
Credit cooperative	1.56	1.05
Marketing cooperative	0.30	1.31
Multi-purpose cooperative	4.39	6.04
Producers cooperative	0.85	2.89
Service cooperative	1.78	0.52

## 2. FARM CHARACTERISTICS

	Philippines	Region X
2.1 Percentage of farm households by farm enterprise		
Crop farming	93.18	92.65
Livestock and poultry raising	72.42	76.12
Capture fishing and aquaculture	13.32	16.27
Special agricultural activities	1.89	1.31
Home processing of agricultural products	0.85	0.79

2.2 Average number of farm parcels	1.66	1.47
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2.3 Average size of farm parcels by tenure (in hectare)		
Fully owned	1.08	1.43
Tenanted	1.03	1.46
Leased/rented	0.83	1.71
Rent free	0.56	0.94
Held under CLT/CLOA	0.98	1.03
Owner-like possession other than CLT / CLOA	0.81	0.97

2.4 Percentage distribution of farm parcels by location		
Within the city/municipality	97.56	94.75
Within the province	2.44	5.25

2.5 Percentage distribution of farm parcels by main use		
Homelot	21.34	17.80
Under temporary crop/s	55.15	48.69
Under permanent crop/s	21.35	32.11
Livestock farm	0.79	
Poultry farm	0.19	0.18
Aquaculture farm	0.69	
Others	0.48	1.22

2.6 Percentage share of irrigated farm parcels in total farm area	22.00	8.02
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2.7 Percentage distribution of irrigated farm parcels by source of irrigation		
National Irrigation System	29.96	72.58
Communal Irrigation System	35.69	16.13
Individual/Private Irrigation System	34.35	11.29

2.8 Average inventory of farm investments by major item		
Farm building and structures	P 2,057	448
Farm machineries and transport equipment	6,258	5,369
Farm tools, equipment and other supplies	1,216	789
Fishing gear	83	101

## 3. FARM ENTERPRISE

### 3.1 CROP FARMING

	Philippines	Region X
3.1.1 Percentage of households reporting on the type of crops grown		
Palay	59.81	18.41
Corn	35.70	60.06
Other temporary crops	43.29	47.32
Coconut	44.03	45.33
Banana	23.85	30.88
Mango	13.52	8.50
Other permanent crops	24.37	26.92

3.1.2 Percentage of households using inorganic fertilizer for palay and corn				
FERTILIZER	Palay	Corn	Palay	Corn
Urea	55.56	42.80	40.97	45.70
Ammonium phosphate	18.17	20.43	24.31	31.18
Potassium chloride	1.85	0.80	7.64	3.23
Complete	12.40	9.65	4.86	1.08
Others	40.63	33.29	35.42	41.40

3.1.3 Percentage of households applying pesticides for palay and corn				
PESTICIDE	Palay	Corn	Palay	Corn
Insecticides	60.34	11.86	50.00	11.83
Weedicides/herbicides	33.16	5.29	20.14	6.45
Others	4.18	0.47	1.39	

### 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	0.43	30.77
Cattle	0.46	26.23	1.71	35.47
Hog	2.50	63.73	2.99	71.37
Goat	0.19	15.54		8.54
Others		4.63		9.41

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		83.72
Foreign/Layer chicken	0.37	8.57		14.42
Broiler	0.20	3.29		
Mallard	0.27	7.59		5.00
Others	0.34	7.06		2.80

\*Includes subsistence farming