



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



## Socio-Economic Characteristics of Farm Households in Ilocos Region



Department of Agriculture  
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## 6. ACCESS TO GOVERNMENT PROGRAMS

	Philippines	Region I
6.1 Percentage of households which were aware of government programs		
Crop farming	59.57	81.53
Livestock and poultry raising	15.84	11.15
Capture fishing and aquaculture	4.91	3.82

6.2 Percentage of households which were beneficiaries of government programs		
<b>CROP FARMING</b>		
Input subsidy	2.07	1.99
Crop management	6.28	1.99
<b>LIVESTOCK AND POULTRY RAISING</b>		
Artificial insemination	0.38	0.43
Production program <sup>1</sup>	1.99	0.85
Animal dispersal	4.91	5.53
<b>CAPTURE FISHING AND AQUACULTURE</b>		
Tilapia culture	0.96	5.13
Credit assistance	0.27	
Provision of cages	0.82	
Development program	5.46	5.13

<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 Ilocos Region**. 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 I
5.1 Percentage of households that availed loan		
Less than 100,000	22.34	13.69
100,000 - 600,000	0.59	1.27
More than 600,000	0.02	0.32

5.2 Percentage of households that availed loan by purpose		
Agricultural production <sup>1</sup>	52.32	64.58
Education	19.71	18.75
Emergency purpose <sup>2</sup>	14.02	20.83
Business	13.46	16.67
House constructions/repairs	7.05	
Payment for other loans	1.92	
Others <sup>3</sup>	3.93	4.17

<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	14.58
Without collateral	88.22	85.42

5.4 Percentage distribution of households that availed loan with and without guarantor		
With guarantor	9.78	6.25
Without guarantor	90.22	93.75

5.5 Percentage distribution of households that availed loan by type of amortization		
Cash	84.53	91.67
In-kind	11.46	8.33
Cash and in-kind	4.01	

5.6 Percentage of households by actual usage of loan obtained		
Agricultural production <sup>1</sup>	49.46	62.50
Education	16.21	10.42
Emergency purpose <sup>2</sup>	9.44	10.42
Business	10.53	14.58
House constructions/repairs	5.60	
Payment for other loans	1.17	
Others <sup>3</sup>	11.61	8.33

<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	89.58
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#### 4. INCOME AND EXPENDITURE PATTERNS (continuation)

##### 4.2 HOUSEHOLD EXPENDITURES

	Philippines	Region I
4.2.1 Average annual expenditures of farm households	97,395	103,848
Farm	34,853	23,473
Food	40,187	51,095
Recurring expenses	9,726	7,747
Non-recurring expenses	12,629	21,533

4.2.2 Percentage distribution of annual household expenditures on food items		
Cereals	30.10	21.01
Cereal based products	5.98	5.32
Roots and tubers	1.63	0.29
Vegetables and spices	4.45	6.73
Fruits	2.99	3.55
Meat and meat preparations	19.82	27.53
Dairy and eggs	7.72	8.60
Fish and marine products	15.58	11.51
Coffee, chocolate and tea	2.83	2.33
Non-alcoholic beverages	2.60	4.06
Alcoholic beverages	2.56	5.19
Cigars and cigarettes	3.00	2.98
Other foods	0.74	0.89

4.2.3 Percentage distribution of annual household expenditures on recurring items		
Fuel, light and water	24.67	24.82
Household operations	23.88	20.54
Transportation and communication	18.30	16.56
Pocket money for children/others	18.82	21.77
Personal care and effects	11.52	12.64
Leisure and recreation	2.81	3.67

4.2.4 Percentage distribution of annual household expenditures on non-recurring items		
Clothing, shoes and other similar items	12.05	8.64
Education	42.30	38.43
Recreation	1.56	0.70
Medical care	9.82	5.24
Furniture/equipment	2.66	2.83
Income/business tax	2.64	1.12
Maintenance and repairs	4.88	9.05
Gifts and contributions	1.83	0.97
Special family occasions	2.51	0.82
Purchase/amortization of real property	1.70	0.27
Insurance/pre-need plans and other related expenses	1.53	8.00
Other non-recurring items	16.52	23.94

## HIGHLIGHTS

### Household Characteristics

- The average size of households in Ilocos Region comprised 4.85 members.
- Majority or 87.26 percent of the households were headed by males. Average age of the household heads was 49 years old.
- Of all household heads, 97.77 percent had formal education. About 23.25 percent were elementary graduates, 22.61 percent finished high school while only 5.41 percent were college degree holders.
- Farming was the main occupation of 87.72 percent of household heads. Palay farmers represented 87.02 percent of the household heads.

### Farm Characteristics

- Majority or 95.86 percent of farm households were engaged in crop farming. Those in livestock and poultry raising were 74.84 percent.
- Average number of farm parcels operated by farm households was 2.27. Parcels held under CLT/CLOA comprised the biggest average size of 1.49 hectares.
- Temporary crops occupied 68.07 percent of the farm parcels.
- Irrigated farm parcels shared 60.87 percent in total farm area with 76.80 percent had their own irrigation system.
- The value of average inventory on farm investments was highest in farm machineries and transport equipment at P11,922. Inventory on farm building and structures had an average value of P1,649; farm tools, equipment and other supplies, P1,006; and fishing gears, P100.

### Farm Enterprise

- Palay was grown by all households. Some 26.91 percent of farm households planted corn while 25.25 percent grew mango.
- Backyard raising of livestock and poultry was more common among households.
- More than half of households or 53.85 percent were engaged in inland fishing while those in marine fishing were 46.15 percent. Those involved in gathering of shells, aquarium fish, etc were 10.26 percent.
- About 11.11 percent of the households were engaged in fishpond operation.

### Income and Expenditure Patterns

- Annual income of farm households in Ilocos Region averaged P118,637. About 43.45 percent of the household income was derived from farming, 30.39 percent from non-farm activities, 22.49 percent from other sources like pensions, etc. and the remainder was from off-farm activities.
- The bulk or 78.03 percent of the farm income were sourced from crop farming while 17.09 percent came from capture fishing and aquaculture.
- Of the total income from crop farming, palay production contributed 55.90 percent. Other permanent crops shared 33.64 percent.
- By farm enterprise, crop farming generated the highest net returns at P27,069. This amounted to P8,805 in capture fishing and aquaculture and only P1, 225 in livestock and poultry raising.
- The biggest portion of household expenditures at 49.20 percent was spent for food. Farm expenditures accounted 22.60 percent of household expenses.
- Meat and meat preparations shared 27.53 percent in the total food expenditures of households while cereals accounted for 21.01 percent.
- Recurring expenses comprised 7.46 percent of the total household expenditures while non-recurring expenses accounted 20.74 percent.

### Credit Information

- About 13.69 percent of farm households availed of loans worth less than P100,000. Biggest portion of borrowers at 64.58 percent availed loans for agricultural production.

### Access to Government Program

- Awareness on government programs in crop farming was cited by 81.53 percent of farm households, by 11.15 percent in livestock and poultry raising and by 3.82 percent in capture fishing and aquaculture.
- Beneficiaries of government programs on crop farming were 3.98 percent of farm households; on livestock and poultry raising, 6.81 percent; and on capture fishing and aquaculture, 10.26 percent.

## 4. INCOME AND EXPENDITURE PATTERNS

### 4.1 HOUSEHOLD INCOME

	Philippines	Region I
4.1.1 Average annual income of farm households by source	106,181	118,637
Farm	P 57,628	51,544
Off-farm	6,763	4,358
Non-farm	31,389	36,054
Other sources	10,401	26,681

4.1.2 Percentage distribution of farm income by enterprise		
Crop farming	73.21	78.03
Livestock and poultry raising	13.82	17.09
Capture fishing and aquaculture	12.05	4.88
Others	0.92	

4.1.3 Percentage distribution of farm income from crop farming		
Palay	47.49	55.90
Corn	11.84	4.23
Other temporary crops	10.05	5.90
Coconut	11.35	0.07
Other permanent crops	18.65	33.64
Crop by-products	0.62	0.26

4.1.4 Production expenses and returns above cash expenses by farm enterprise*		
<b>Crop farming</b>		
Production expenses	P 27,268	14,885
Returns above cash expenses	36,807	36,346
<b>Livestock and poultry raising</b>		
Production expenses	P 9,608	10,548
Returns above cash expenses	5,396	4,942
<b>Capture fishing and aquaculture</b>		
Production expenses	P 23,982	9,570
Returns above cash expenses	35,402	13,603

4.1.5 Average net income by farm enterprise*		
Crop farming	P 18,012	27,069
Livestock and poultry raising	1,402	1,225
Capture fishing and aquaculture	21,896	8,805

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

### 3.3 CAPTURE FISHING AND AQUACULTURE

	Philippines	Region I
3.3.1 Percentage of households engaged in capture fishing by type		
Marine fishing	64.81	46.15
Inland fishing	31.71	53.85
Gathering of shells, aquarium fish, etc.	16.27	10.26

	Philippines	Region I
3.3.2 Percentage of households engaged in aquaculture by type of farm		
Fishpond	15.24	11.11
Fishpen	0.21	
Fishcage	0.43	
Seaweed farming	13.73	
Hatchery	0.43	

### 1. CHARACTERISTICS OF FARM HOUSEHOLDS

	Philippines	Region I
1.1 Average household size	5.07	4.85

1.2 Percentage distribution of household heads by sex		
Male	89.33	87.26
Female	10.67	12.74

	Philippines	Region I
1.3 Average age of household heads	49 years	49 years

1.4 Percentage distribution of household heads by educational attainment		
Elementary level	40.38	26.75
Elementary graduate	16.45	23.25
High school level	14.13	11.15
High school graduate	13.78	22.61
Vocational	2.06	5.10
College level	5.17	3.50
College graduate	4.67	5.41
Post graduate	0.16	
No schooling	3.20	2.23

1.5 Percentage distribution of household heads by main occupation		
Officials of government	1.35	0.35
Professionals	0.98	0.71
Technicians and associate professionals	0.41	0.35
Clerks	0.29	
Service workers and shop and market sales workers	1.33	1.05
<b>FARMER</b>	<b>79.05</b>	<b>87.72</b>
Palay	35.77	87.02
Corn	12.01	0.35
Coconut	12.44	
Others	18.83	0.35
Fishing	5.79	5.97
Trades and related workers	2.88	1.40
Plant and machine operators and assemblers	2.81	1.05
Laborers and unskilled workers	3.85	1.05
Special occupations	1.26	0.35

1.6 Percentage of household heads by membership in organization		
Community development	6.33	0.96
Consumer cooperative	0.69	0.64
Credit cooperative	1.56	1.59
Marketing cooperative	0.30	0.32
Multi-purpose cooperative	4.39	6.05
Producers cooperative	0.85	0.64
Service cooperative	1.78	0.32

## 2. FARM CHARACTERISTICS

	Philippines	Region I
2.1 Percentage of farm households by farm enterprise		
Crop farming	93.18	95.86
Livestock and poultry raising	72.42	74.84
Capture fishing and aquaculture	13.32	12.42
Special agricultural activities	1.89	
Home processing of agricultural products	0.85	

2.2 Average number of farm parcels	1.66	2.27
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2.3 Average size of farm parcels by tenure (in hectare)		
Fully owned	1.08	0.32
Tenanted	1.03	0.35
Leased/rented	0.83	0.44
Rent free	0.56	0.10
Held under CLT/CLOA	0.98	1.49
Owner-like possession other than CLT / CLOA	0.81	0.17

2.4 Percentage distribution of farm parcels by location		
Within the city/municipality	97.56	95.15
Within the province	2.44	4.85

2.5 Percentage distribution of farm parcels by main use		
Homelot	21.34	27.31
Under temporary crop/s	55.15	68.07
Under permanent crop/s	21.35	3.50
Livestock farm	0.79	0.84
Poultry farm	0.19	0.14
Aquaculture farm	0.69	0.14
Others	0.48	

2.6 Percentage share of irrigated farm parcels in total farm area	22.00	60.87
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2.7 Percentage distribution of irrigated farm parcels by source of irrigation		
National Irrigation System	29.96	7.20
Communal Irrigation System	35.69	16.00
Individual/Private Irrigation System	34.35	76.80

2.8 Average inventory of farm investments by major item		
Farm building and structures	P 2,057	1,649
Farm machineries and transport equipment	6,258	11,922
Farm tools, equipment and other supplies	1,216	1,006
Fishing gear	83	100

## 3. FARM ENTERPRISE

### 3.1 CROP FARMING

	Philippines	Region I
3.1.1 Percentage of households reporting on the type of crops grown		
Palay	59.81	100.00
Corn	35.70	26.91
Other temporary crops	43.29	54.16
Coconut	44.03	9.63
Banana	23.85	10.63
Mango	13.52	25.25
Other permanent crops	24.37	7.64

3.1.2 Percentage of households using inorganic fertilizer for palay and corn				
FERTILIZER	Palay	Corn	Palay	Corn
Urea	55.56	42.80	64.62	85.19
Ammonium phosphate	18.17	20.43	12.78	5.56
Potassium chloride	1.85	0.80	0.98	
Complete	12.40	9.65	27.03	11.11
Others	40.63	33.29	47.67	51.85

3.1.3 Percentage of households applying pesticides for palay and corn				
PESTICIDE	Palay	Corn	Palay	Corn
Insecticides	60.34	11.86	60.93	14.81
Weedicides/herbicides	33.16	5.29	29.98	3.70
Others	4.18	0.47	0.74	

### 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	0.49	32.02
Cattle	0.46	26.23	0.49	52.71
Hog	2.50	63.73	1.48	42.86
Goat	0.19	15.54		33.99
Others		4.63		

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	1.17	85.38
Foreign/Layer chicken	0.37	8.57		4.68
Broiler	0.20	3.29		4.68
Mallard	0.27	7.59	1.17	5.36
Others	0.34	7.06	1.75	5.84

\*Includes subsistence farming