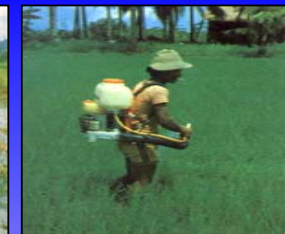




Republic of the Philippines  
**Department of Agriculture**  
**BUREAU OF AGRICULTURAL STATISTICS**



## Socio-Economic Characteristics of Farm Households in Central Luzon



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## 6. ACCESS TO GOVERNMENT PROGRAMS

	Philippines	Region III
6.1 Percentage of households which were aware of government programs		
Crop farming	59.57	61.05
Livestock and poultry raising	15.84	7.60
Capture fishing and aquaculture	4.91	11.16

6.2 Percentage of households which were beneficiaries of government programs		
<b>CROP FARMING</b>		
Input subsidy	2.07	2.05
Crop management	6.28	5.56
<b>LIVESTOCK AND POULTRY RAISING</b>		
Artificial insemination	0.38	0.56
Production program <sup>1</sup>	1.99	4.49
Animal dispersal	4.91	6.18
<b>CAPTURE FISHING AND AQUACULTURE</b>		
Tilapia culture	0.96	
Credit assistance	0.27	
Provision of cages	0.82	
Development program	5.46	1.45

<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 Central Luzon**. 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".

The Bureau of Agricultural Statistics (BAS) wishes to extend its most sincere appreciation to the Bureau of Agricultural Research (BAR) for the financial support it has provided for the preparation of this report.



ROMEO S. RECIDE  
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## 5. CREDIT INFORMATION

	Philippines	Region III
5.1 Percentage of households that availed loan		
Less than 100,000	22.34	27.32
100,000 - 600,000	0.59	0.95
More than 600,000	0.02	

5.2 Percentage of households that availed loan by purpose		
Agricultural production <sup>1</sup>	52.32	73.11
Education	19.71	18.49
Emergency purpose <sup>2</sup>	14.02	11.76
Business	13.46	13.45
House constructions/repairs	7.05	5.04
Payment for other loans	1.92	0.84
Others <sup>3</sup>	3.93	3.36

<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	10.08
Without collateral	88.22	89.92

5.4 Percentage distribution of households that availed loan with and without guarantor		
With guarantor	9.78	8.40
Without guarantor	90.22	91.60

5.5 Percentage distribution of households that availed loan by type of amortization		
Cash	84.53	66.39
In-kind	11.46	24.37
Cash and in-kind	4.01	9.24

5.6 Percentage of households by actual usage of loan obtained		
Agricultural production <sup>1</sup>	49.46	68.91
Education	16.21	10.92
Emergency purpose <sup>2</sup>	9.44	5.04
Business	10.53	13.45
House constructions/repairs	5.60	5.04
Payment for other loans	1.17	
Others <sup>3</sup>	11.61	7.56

<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	91.60
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#### 4. INCOME AND EXPENDITURE PATTERNS (continuation)

##### 4.2 HOUSEHOLD EXPENDITURES

	Philippines	Region III
4.2.1 Average annual expenditures of farm households	97,395	143,008
Farm P	34,853	49,548
Food	40,187	56,527
Recurring expenses	9,726	17,921
Non-recurring expenses	12,629	19,012

4.2.2 Percentage distribution of annual household expenditures on food items		
Cereals	30.10	22.63
Cereal based products	5.98	6.19
Roots and tubers	1.63	0.52
Vegetables and spices	4.45	5.67
Fruits	2.99	3.56
Meat and meat preparations	19.82	29.30
Dairy and eggs	7.72	9.04
Fish and marine products	15.58	11.93
Coffee, chocolate and tea	2.83	2.85
Non-alcoholic beverages	2.60	2.10
Alcoholic beverages	2.56	1.92
Cigars and cigarettes	3.00	2.91
Other foods	0.74	1.38

4.2.3 Percentage distribution of annual household expenditures on recurring items		
Fuel, light and water	24.67	28.01
Household operations	23.88	20.48
Transportation and communication	18.30	18.65
Pocket money for children/others	18.82	19.21
Personal care and effects	11.52	10.76
Leisure and recreation	2.81	2.88

4.2.4 Percentage distribution of annual household expenditures on non-recurring items		
Clothing, shoes and other similar items	12.05	11.79
Education	42.30	50.96
Recreation	1.56	1.08
Medical care	9.82	10.22
Furniture/equipment	2.66	0.95
Income/business tax	2.64	2.80
Maintenance and repairs	4.88	3.70
Gifts and contributions	1.83	2.79
Special family occasions	2.51	2.57
Purchase/amortization of real property	1.70	2.29
Insurance/pre-need plans and other related expenses	1.53	0.91
Other non-recurring items	16.52	9.94

## HIGHLIGHTS

### Household Characteristics

- The average size of farm households in Central Luzon was 5.05.
- Among household heads 88.36 percent were males. Average age of household heads was 49 years.
- Almost all or 99.05 percent of household heads had formal education. About 19.48 percent of household heads were elementary graduates, 25.65 percent graduated high school while only 5.46 percent were college degree holders.
- Farming was the main occupation of 69.61 percent of household heads. Palay farmers represented 64.31 percent of the household heads.

### Farm Characteristics

- Majority or 81.24 percent of farm households were engaged in crop production, 42.28 percent in livestock and poultry raising and 15.20 percent in capture fishing and aquaculture.
- Farm households operated and managed an average of 1.34 farm parcels. Farm parcels held under CLT/CLOA comprised the biggest average size of 1.36 hectares. The smallest size at 0.57 hectare were operated under rent-free condition.
- About 62.65 percent of the farm parcels were planted to temporary crops and 27.26 percent were used as homelots.
- Irrigated farm parcels shared 64.97 percent of the region's farm areas. About 46.62 percent of the irrigated farm parcels were serviced by National Irrigation System-NIA while 33.81 percent had individual irrigation system.
- The average inventory on farm investments of farm households was valued at P16,023 in farm machineries and transport equipments, P3,086 in farm tools, equipments and other supplies, P1,942 in farm building and structures, and P73 in fishing gear.

### Farm Enterprise

- Majority or 96.20 percent of households in the region planted palay while less than 13 percent planted other temporary crops.
- Most of the households raised livestock and poultry as backyard farms. Commercial farms were reported by less than 6 percent of households.
- Of the total farm households, 70.31 percent were engaged in marine fishing, 21.88 percent in inland fishing and 7.81 percent in gathering of shells, aquarium fish, etc.
- In Central Luzon, 35.56 percent of the farm households were engaged in fishpond operation.

### Income and Expenditure Patterns

- Farm households in Central Luzon registered an average annual income of P158,130. Income derived from farming activities accounted 53.78 percent of total income, non-farm income contributed 31.88 percent, other sources like pension, etc. shared 10.50 percent and the remainder came from off-farm income.
- About 61.77 percent of farm income were derived from crop production, 17.59 percent from livestock and poultry raising, 16.65 percent from capture fishing and aquaculture and 3.99 percent from other sources like home processing of agricultural products, etc.
- About 87.20 percent of the average gross income from crop farming were derived in palay production.
- By farm enterprise, crop farming generated the highest net returns at P32,682. Net returns in capture fishing and aquaculture was computed at P15,505.
- Farm households in Central Luzon registered an average annual expenditure of P143,008. Expenditure on food accounted for 39.53 percent of total expenses while farm expenditures shared 34.65 percent.
- Meat and meat preparations shared 29.30 percent in the total food expenditures of households while cereals shared 22.63 percent.
- Recurring expenses comprised 12.53 percent of the total household expenditures while non-recurring expenses accounted for 13.29 percent.

### Credit Information

- About 27.32 percent of farm households availed of loans worth less than P100,000. Biggest portion of borrowers at 73.11 percent availed loans for agricultural production.

### Access to Government Program

- Awareness on government programs in crop farming was expressed by 61.05 percent of farm households. About 11.16 percent of the households showed familiarity with programs for capture fishing and aquaculture and 7.60 percent on livestock and poultry raising.
- Only 7.61 percent of households were benefited with programs on crop farming, 11.23 percent on livestock and poultry raising and 1.45 percent on capture fishing and aquaculture.

## 4. INCOME AND EXPENDITURE PATTERNS

### 4.1 HOUSEHOLD INCOME

	Philippines	Region III
4.1.1 Average annual income of farm households by source	106,181	158,130
Farm	57,628	85,048
Off-farm	6,763	6,073
Non-farm	31,389	50,413
Other sources	10,401	16,596

4.1.2 Percentage distribution of farm income by enterprise		
Crop farming	73.21	61.77
Livestock and poultry raising	13.82	17.59
Capture fishing and aquaculture	12.05	16.65
Others	0.92	3.99

4.1.3 Percentage distribution of farm income from crop farming		
Palay	47.49	87.20
Corn	11.84	1.20
Other temporary crops	10.05	6.75
Coconut	11.35	2.14
Other permanent crops	18.65	2.71
Crop by-products	0.62	a/

a/ Less than 0.01

4.1.4 Production expenses and returns above cash expenses by farm enterprise*		
<b>Crop farming</b>		
Production expenses	P 27,268	31,993
Returns above cash expenses	36,807	53,392
<b>Livestock and poultry raising</b>		
Production expenses	P 9,608	28,681
Returns above cash expenses	5,396	16,053
<b>Capture fishing and aquaculture</b>		
Production expenses	P 23,982	65,041
Returns above cash expenses	35,402	41,786

4.1.5 Average net income by farm enterprise*		
Crop farming	P 18,012	32,682
Livestock and poultry raising	1,402	6,702
Capture fishing and aquaculture	21,896	15,505

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

### 3.3 CAPTURE FISHING AND AQUACULTURE

	Philippines	Region III
3.3.1 Percentage of households engaged in capture fishing by type		
Marine fishing	64.81	70.31
Inland fishing	31.71	21.88
Gathering of shells, aquarium fish, etc.	16.27	7.81

3.3.2 Percentage of households engaged in aquaculture by type of farm		
Fishpond	15.24	35.56
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		
Cutflowers and ornamentals	0.31	
Handicrafts <sup>1</sup>	0.52	0.24
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	0.71
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	Region III
1.1 Average household size	5.07	5.05

1.2 Percentage distribution of household heads by sex		
Male	89.33	88.36
Female	10.67	11.64

1.3 Average age of household heads	49 years	49 years
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1.4 Percentage distribution of household heads by educational attainment		
Elementary level	40.38	23.99
Elementary graduate	16.45	19.48
High school level	14.13	14.96
High school graduate	13.78	25.65
Vocational	2.06	4.04
College level	5.17	5.23
College graduate	4.67	5.46
Post graduate	0.16	0.24
No schooling	3.20	0.95

1.5 Percentage distribution of household heads by main occupation		
Officials of government	1.35	1.18
Professionals	0.98	1.48
Technicians and associate professionals	0.41	0.89
Clerks	0.29	0.59
Service workers and shop and market sales workers	1.33	2.66
<b>FARMER</b>	<b>79.05</b>	<b>69.61</b>
Palay	35.77	64.31
Corn	12.01	0.59
Coconut	12.44	0.88
Others	18.83	3.83
Fishing	5.79	7.37
Trades and related workers	2.88	4.13
Plant and machine operators and assemblers	2.81	5.90
Laborers and unskilled workers	3.85	4.72
Special occupations	1.26	1.47

1.6 Percentage of household heads by membership in organization		
Community development	6.33	2.38
Consumer cooperative	0.69	0.24
Credit cooperative	1.56	0.48
Marketing cooperative	0.30	
Multi-purpose cooperative	4.39	2.38
Producers cooperative	0.85	0.48
Service cooperative	1.78	2.14



## 2. FARM CHARACTERISTICS

	Philippines	Region III
2.1 Percentage of farm households by farm enterprise		
Crop farming	93.18	81.24
Livestock and poultry raising	72.42	42.28
Capture fishing and aquaculture	13.32	15.20
Special agricultural activities	1.89	0.24
Home processing of agricultural products	0.85	0.71
2.2 Average number of farm parcels	1.66	1.34
2.3 Average size of farm parcels by tenure (in hectare)		
Fully owned	1.08	0.77
Tenanted	1.03	1.05
Leased/rented	0.83	1.02
Rent free	0.56	0.57
Held under CLT/CLOA	0.98	1.36
Owner-like possession other than CLT / CLOA	0.81	1.09
2.4 Percentage distribution of farm parcels by location		
Within the city/municipality	97.56	94.60
Within the province	2.44	5.40
2.5 Percentage distribution of farm parcels by main use		
Homelot	21.34	27.26
Under temporary crop/s	55.15	62.65
Under permanent crop/s	21.35	6.37
Livestock farm	0.79	2.83
Poultry farm	0.19	
Aquaculture farm	0.69	0.89
Others	0.48	
2.6 Percentage share of irrigated farm parcels in total farm area	22.00	64.97
2.7 Percentage distribution of irrigated farm parcels by source of irrigation		
National Irrigation System	29.96	46.62
Communal Irrigation System	35.69	19.57
Individual/Private Irrigation System	34.35	33.81
2.8 Average inventory of farm investments by major item		
Farm building and structures P	2,057	1,942
Farm machineries and transport equipment	6,258	16,023
Farm tools, equipment and other supplies	1,216	3,086
Fishing gear	83	73

## 3. FARM ENTERPRISE

### 3.1 CROP FARMING

	Philippines	Region III		
3.1.1 Percentage of households reporting on the type of crops grown				
Palay	59.81	96.20		
Corn	35.70	4.39		
Other temporary crops	43.29	12.56		
Coconut	44.03	9.06		
Banana	23.85	4.09		
Mango	13.52	9.06		
Other permanent crops	24.37	1.75		
3.1.2 Percentage of households using inorganic fertilizer for palay and corn				
FERTILIZER	Palay	Corn	Palay	Corn
Urea	55.56	42.80	81.90	53.85
Ammonium phosphate	18.17	20.43	22.99	
Potassium chloride	1.85	0.80	0.57	
Complete	12.40	9.65	12.64	
Others	40.63	33.29	62.07	46.15
3.1.3 Percentage of households applying pesticides for palay and corn				
PESTICIDE	Palay	Corn	Palay	Corn
Insecticides	60.34	11.86	85.63	92.31
Weedicides/herbicides	33.16	5.29	56.61	15.38
Others	4.18	0.47	5.75	

### 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		35.34
Cattle	0.46	26.23	0.75	18.79
Hog	2.50	63.73	5.26	54.13
Goat	0.19	15.54	0.75	17.29
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	0.92	86.24
Foreign/Layer chicken	0.37	8.57		0.92
Broiler	0.20	3.29		4.58
Mallard	0.27	7.59	2.75	16.71
Others	0.34	7.06	2.75	5.51

\*Includes subsistence farming