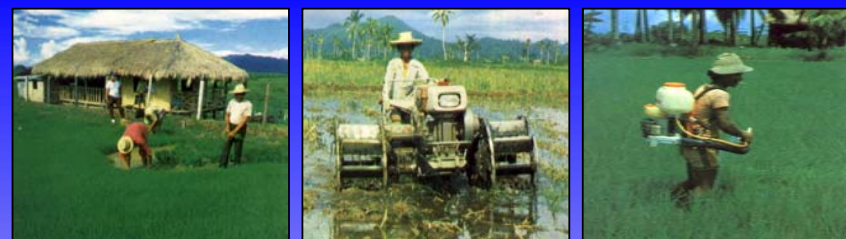




Republic of the Philippines
Department of Agriculture
BUREAU OF AGRICULTURAL STATISTICS



Socio-Economic Characteristics of Farm Households in Davao Region



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6. ACCESS TO GOVERNMENT PROGRAMS

| | Philippines | Region XI |
|--|-------------|-----------|
| 6.1 Percentage of households which were aware of government programs | | |
| Crop farming | 59.57 | 75.89 |
| Livestock and poultry raising | 15.84 | 18.09 |
| Capture fishing and aquaculture | 4.91 | 0.35 |

| | | |
|--|------|-------|
| 6.2 Percentage of households which were beneficiaries of government programs | | |
| CROP FARMING | | |
| Input subsidy | 2.07 | 0.36 |
| Crop management | 6.28 | 13.14 |
| LIVESTOCK AND POULTRY RAISING | | |
| Artificial insemination | 0.38 | |
| Production program | 1.99 | 0.87 |
| Animal dispersal | 4.91 | 2.60 |
| CAPTURE FISHING AND AQUACULTURE | | |
| Tilapia culture | 0.96 | |
| Credit assistance | 0.27 | |
| Provision of cages | 0.82 | |
| Development program | 5.46 | |

¹ 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 Davao 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".

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 XI |
|---|-------------|-----------|
| 5.1 Percentage of households that availed loan | | |
| Less than 100,000 | 22.34 | 17.73 |
| 100,000 - 600,000 | 0.59 | |
| More than 600,000 | 0.02 | |

| | | |
|--|-------|-------|
| 5.2 Percentage of households that availed loan by purpose | | |
| Agricultural production ¹ | 52.32 | 48.00 |
| Education | 19.71 | 14.00 |
| Emergency purpose ² | 14.02 | 18.00 |
| Business | 13.46 | 10.00 |
| House constructions/repairs | 7.05 | 8.00 |
| Payment for other loans | 1.92 | 2.00 |
| Others ³ | 3.93 | 12.00 |

¹ Include crop, livestock and poultry production

² Includes hospitalization

³ Include other purposes not elsewhere classified

| | | |
|--|-------|-------|
| 5.3 Percentage distribution of households that availed loan with and without collateral | | |
| With collateral | 11.78 | 8.00 |
| Without collateral | 88.22 | 92.00 |

| | | |
|---|-------|-------|
| 5.4 Percentage distribution of households that availed loan with and without guarantor | | |
| With guarantor | 9.78 | 4.00 |
| Without guarantor | 90.22 | 96.00 |

| | | |
|--|-------|-------|
| 5.5 Percentage distribution of households that availed loan by type of amortization | | |
| Cash | 84.53 | 88.00 |
| In-kind | 11.46 | 10.00 |
| Cash and in-kind | 4.01 | 2.00 |

| | | |
|--|-------|-------|
| 5.6 Percentage of households by actual usage of loan obtained | | |
| Agricultural production ¹ | 49.46 | 36.00 |
| Education | 16.21 | 14.00 |
| Emergency purpose ² | 9.44 | 16.00 |
| Business | 10.53 | 4.00 |
| House constructions/repairs | 5.60 | 8.00 |
| Payment for other loans | 1.17 | 6.00 |
| Others ³ | 11.61 | 18.00 |

¹ Include crop, livestock and poultry production

² Includes hospitalization

³ Include other purposes not elsewhere classified

| | | |
|---|-------|-------|
| 5.7 Percentage of households that pay amortization on time | 84.46 | 92.00 |
|---|-------|-------|

4. INCOME AND EXPENDITURE PATTERNS (continuation)

4.2 HOUSEHOLD EXPENDITURES

| | Philippines | Region XI |
|--|-------------|-----------|
| 4.2.1 Average annual expenditures of farm households | 97,395 | 96,589 |
| Farm P | 34,853 | 48,217 |
| Food | 40,187 | 31,191 |
| Recurring expenses | 9,726 | 6,415 |
| Non-recurring expenses | 12,629 | 10,766 |

| 4.2.2 Percentage distribution of annual household expenditures on food items | | |
|--|-------|-------|
| Cereals | 30.10 | 32.19 |
| Cereal based products | 5.98 | 5.50 |
| Roots and tubers | 1.63 | 1.37 |
| Vegetables and spices | 4.45 | 4.88 |
| Fruits | 2.99 | 3.12 |
| Meat and meat preparations | 19.82 | 15.57 |
| Dairy and eggs | 7.72 | 7.22 |
| Fish and marine products | 15.58 | 18.29 |
| Coffee, chocolate and tea | 2.83 | 2.60 |
| Non-alcoholic beverages | 2.60 | 3.39 |
| Alcoholic beverages | 2.56 | 2.55 |
| Cigars and cigarettes | 3.00 | 2.84 |
| Other foods | 0.74 | 0.48 |

| 4.2.3 Percentage distribution of annual household expenditures on recurring items | | |
|---|-------|-------|
| Fuel, light and water | 24.67 | 20.97 |
| Household operations | 23.88 | 25.29 |
| Transportation and communication | 18.30 | 20.30 |
| Pocket money for children/others | 18.82 | 14.87 |
| Personal care and effects | 11.52 | 13.02 |
| Leisure and recreation | 2.81 | 5.55 |

| 4.2.4 Percentage distribution of annual household expenditures on non-recurring items | | |
|---|-------|-------|
| Clothing, shoes and other similar items | 12.05 | 12.70 |
| Education | 42.30 | 30.28 |
| Recreation | 1.56 | 0.71 |
| Medical care | 9.82 | 9.52 |
| Furniture/equipment | 2.66 | 1.96 |
| Income/business tax | 2.64 | 2.68 |
| Maintenance and repairs | 4.88 | 1.84 |
| Gifts and contributions | 1.83 | 2.00 |
| Special family occasions | 2.51 | 3.53 |
| Purchase/amortization of real property | 1.70 | 9.67 |
| Insurance/pre-need plans and other related expenses | 1.53 | 0.74 |
| Other non-recurring items | 16.52 | 24.37 |

HIGHLIGHTS

Household Characteristics

- The size of farm households in the region averaged 5.01.
- Almost 94 percent of the households were headed by males. Average age of the household heads was 48 years.
- Around 97 percent of household heads had formal schooling. Those who completed elementary education comprised 13 percent while high school graduates were 7 percent. Only 2 percent finished college courses.
- Farming was the main occupation of 91 percent of household heads. Coconut farmers were 24 percent, 20 percent corn farmers and 14 percent palay farmers.
- Among the household heads, 18 percent were members in community development organizations.

Farm Characteristics

- Around 97 percent of the farm households were engaged in crop farming and 82 percent in livestock and poultry raising.
- The average number of farm parcels operated by households was 1.32. By tenurial status, fully owned farm parcels comprised the biggest average size of 2.22 hectares. Leased farm parcels had the smallest size of 0.96 hectare.
- Only 9 percent of the region's farm parcels were irrigated. There were 51 percent of irrigated parcels which were serviced by the National Irrigation System (NIA).
- Some 51 percent of farm parcels were under permanent crops and 42 percent planted to temporary crops.
- Average inventory of farm investments of households was valued at P4,348. Investments on farm machineries and transport equipment comprised 63 percent of the inventory.

Farm Enterprise

- Coconut was the crop grown by the majority or 54 percent of the households. Corn was also grown by 50 percent of households while only 22 percent planted palay.
- Hog and native chicken were raised by 65 percent and 82 percent of the households in backyard scale, respectively.
- All households in the region were engaged in marine fishing while 14 percent were into inland fishing.
- Around 29 percent of the households were engaged in fishpond operations and 7.14 percent were in fish hatchery operations.

Income and Expenditure Patterns

- Average annual income of farm households was P101,673. About 68 percent of the farm household income or P69,496 came from farming. Non-farm income contributed 17 percent to total income which amounted to P17,573.
- Almost 89 percent of the household income from farming came from crop production, of which 71 percent were from the production of permanent crops.
- By enterprise, farmers generated an average net income of P14,738 in crop production, P3,455 from capture fishing and aquaculture and P669 from livestock and poultry raising.
- Average annual expenditures of farm households was P96,589. The biggest portion at 50 percent went to farm expenses while food expenditures used up 32 percent.
- Cereals shared 32 percent in the total food expenditures while fish and marine products accounted for 18 percent. Expenses on meat and meat preparations was 16 percent of the total food expenditures.
- Recurring expenses comprised 7 percent of the total household expenditures while non-recurring expenses constituted 11 percent.

Credit Information

- About 18 percent of farm households availed of loans worth less than P100,000 with 48 percent of the borrowers availed loans for agricultural production.

Access to Government Program

- Awareness on government programs in crop farming was cited by 76 percent of farm households. However, only 13 percent were benefited with the program on crop management.
- About 18 percent of the households were aware of the government programs on livestock and poultry raising. Only 3 percent were benefited from animal dispersal and production programs of the government.

4. INCOME AND EXPENDITURE PATTERNS

4.1 HOUSEHOLD INCOME

| | Philippines | Region XI |
|--|-------------|-----------|
| 4.1.1 Average annual income of farm households by source | 106,181 | 101,673 |
| Farm | 57,628 | 69,496 |
| Off-farm | 6,763 | 5,593 |
| Non-farm | 31,389 | 17,573 |
| Other sources | 10,401 | 9,011 |

| | | |
|--|-------|-------|
| 4.1.2 Percentage distribution of farm income by enterprise | | |
| Crop farming | 73.21 | 88.95 |
| Livestock and poultry raising | 13.82 | 9.93 |
| Capture fishing and aquaculture | 12.05 | 0.99 |
| Others | 0.92 | 0.13 |

| | | |
|--|-------|-------|
| 4.1.3 Percentage distribution of farm income from crop farming | | |
| Palay | 47.49 | 16.34 |
| Corn | 11.84 | 8.93 |
| Other temporary crops | 10.05 | 2.08 |
| Coconut | 11.35 | 8.31 |
| Other permanent crops | 18.65 | 62.98 |
| Crop by-products | 0.62 | 1.36 |

| | | |
|---|----------|--------|
| 4.1.4 Production expenses and returns above cash expenses by farm enterprise* | | |
| Crop farming | | |
| Production expenses | P 27,268 | 48,883 |
| Returns above cash expenses | 36,807 | 45,193 |
| Livestock and poultry raising | | |
| Production expenses | P 9,608 | 7,754 |
| Returns above cash expenses | 5,396 | 4,978 |
| Capture fishing and aquaculture | | |
| Production expenses | P 23,982 | 7,314 |
| Returns above cash expenses | 35,402 | 8,099 |

| | | |
|--|----------|--------|
| 4.1.5 Average net income by farm enterprise* | | |
| Crop farming | P 18,012 | 14,738 |
| Livestock and poultry raising | 1,402 | 669 |
| Capture fishing and aquaculture | 21,896 | 3,455 |

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

3. FARM ENTERPRISE (continuation)

3.3 CAPTURE FISHING AND AQUACULTURE

| | Philippines | Region XI |
|---|-------------|-----------|
| 3.3.1 Percentage of households engaged in capture fishing by type | | |
| Marine fishing | 64.81 | 100.00 |
| Inland fishing | 31.71 | 14.29 |
| Gathering of shells, aquarium fish, etc. | 16.27 | |

| | | |
|---|-------|-------|
| 3.3.2 Percentage of households engaged in aquaculture by type of farm | | |
| Fishpond | 15.24 | 28.57 |
| Fishpen | 0.21 | |
| Fishcage | 0.43 | |
| Seaweed farming | 13.73 | |
| Hatchery | 0.43 | 7.14 |

3.4 SPECIAL AGRICULTURAL ACTIVITIES

| | | |
|---|------|------|
| 3.4.1 Percentage of households engaged in special agricultural activities | | |
| Cutflowers and ornamentals | 0.31 | |
| Handicrafts ¹ | 0.52 | |
| Others ² | 1.06 | 0.71 |

¹ Include plate making, bag weaving, hat, mat, saklob and papag making, and nipa thatches

² Include honey bee and wax making, mushroom and tuba gathering

1. CHARACTERISTICS OF FARM HOUSEHOLDS

| | Philippines | Region XI |
|----------------------------|-------------|-----------|
| 1.1 Average household size | 5.07 | 5.01 |

| | | |
|---|-------|-------|
| 1.2 Percentage distribution of household heads by sex | | |
| Male | 89.33 | 93.62 |
| Female | 10.67 | 6.38 |

| | | |
|------------------------------------|----------|----------|
| 1.3 Average age of household heads | 49 years | 48 years |
|------------------------------------|----------|----------|

| | | |
|--|-------|-------|
| 1.4 Percentage distribution of household heads by educational attainment | | |
| Elementary level | 40.38 | 50.70 |
| Elementary graduate | 16.45 | 13.48 |
| High school level | 14.13 | 16.67 |
| High school graduate | 13.78 | 7.09 |
| Vocational | 2.06 | 0.71 |
| College level | 5.17 | 6.38 |
| College graduate | 4.67 | 2.13 |
| Post graduate | 0.16 | |
| No schooling | 3.20 | 2.84 |

| | | |
|---|--------------|--------------|
| 1.5 Percentage distribution of household heads by main occupation | | |
| Officials of government | 1.35 | 0.94 |
| Professionals | 0.98 | |
| Technicians and associate professionals | 0.41 | |
| Clerks | 0.29 | |
| Service workers and shop and market sales workers | 1.33 | |
| FARMER | 79.05 | 91.17 |
| Palay | 35.77 | 14.20 |
| Corn | 12.01 | 19.56 |
| Coconut | 12.44 | 23.97 |
| Others | 18.83 | 33.44 |
| Fishing | 5.79 | 1.89 |
| Trades and related workers | 2.88 | 1.58 |
| Plant and machine operators and assemblers | 2.81 | 1.58 |
| Laborers and unskilled workers | 3.85 | 2.52 |
| Special occupations | 1.26 | 0.32 |

| | | |
|---|------|-------|
| 1.6 Percentage of household heads by membership in organization | | |
| Community development | 6.33 | 18.44 |
| Consumer cooperative | 0.69 | 1.06 |
| Credit cooperative | 1.56 | 3.90 |
| Marketing cooperative | 0.30 | 0.35 |
| Multi-purpose cooperative | 4.39 | 4.61 |
| Producers cooperative | 0.85 | |
| Service cooperative | 1.78 | 2.84 |

2. FARM CHARACTERISTICS

| | Philippines | Region XI |
|---|-------------|-----------|
| 2.1 Percentage of farm households by farm enterprise | | |
| Crop farming | 93.18 | 97.16 |
| Livestock and poultry raising | 72.42 | 81.91 |
| Capture fishing and aquaculture | 13.32 | 4.96 |
| Special agricultural activities | 1.89 | 0.71 |
| Home processing of agricultural products | 0.85 | |
| 2.2 Average number of farm parcels | 1.66 | 1.32 |
| 2.3 Average size of farm parcels by tenure (in hectare) | | |
| Fully owned | 1.08 | 2.22 |
| Tenanted | 1.03 | 1.76 |
| Leased/rented | 0.83 | 0.96 |
| Rent free | 0.56 | 1.02 |
| Held under CLT/CLOA | 0.98 | 1.57 |
| Owner-like possession other than CLT / CLOA | 0.81 | 1.29 |
| 2.4 Percentage distribution of farm parcels by location | | |
| Within the city/municipality | 97.56 | 100.00 |
| Within the province | 2.44 | |
| 2.5 Percentage distribution of farm parcels by main use | | |
| Homelot | 21.34 | 6.20 |
| Under temporary crop/s | 55.15 | 41.78 |
| Under permanent crop/s | 21.35 | 50.94 |
| Livestock farm | 0.79 | 0.54 |
| Poultry farm | 0.19 | |
| Aquaculture farm | 0.69 | |
| Others | 0.48 | 0.54 |
| 2.6 Percentage share of irrigated farm parcels in total farm area | 22.00 | 8.61 |
| 2.7 Percentage distribution of irrigated farm parcels by source of irrigation | | |
| National Irrigation System | 29.96 | 50.95 |
| Communal Irrigation System | 35.69 | 28.30 |
| Individual/Private Irrigation System | 34.35 | 20.75 |
| 2.8 Average inventory of farm investments by major item | | |
| Farm building and structures P | 2,057 | 894 |
| Farm machineries and transport equipment | 6,258 | 2,759 |
| Farm tools, equipment and other supplies | 1,216 | 674 |
| Fishing gear | 83 | 21 |

3. FARM ENTERPRISE

3.1 CROP FARMING

| | Philippines | Region XI |
|---|-------------|-----------|
| 3.1.1 Percentage of households reporting on the type of crops grown | | |
| Palay | 59.81 | 22.26 |
| Corn | 35.70 | 50.36 |
| Other temporary crops | 43.29 | 28.82 |
| Coconut | 44.03 | 53.65 |
| Banana | 23.85 | 38.32 |
| Mango | 13.52 | 8.03 |
| Other permanent crops | 24.37 | 31.74 |

| | | | | |
|--|-------|-------|-------|-------|
| 3.1.2 Percentage of households using inorganic fertilizer for palay and corn | | | | |
| FERTILIZER | Palay | Corn | Palay | Corn |
| Urea | 55.56 | 42.80 | 38.53 | 33.61 |
| Ammonium phosphate | 18.17 | 20.43 | 24.77 | 22.13 |
| Potassium chloride | 1.85 | 0.80 | 2.75 | |
| Complete | 12.40 | 9.65 | 19.27 | 5.74 |
| Others | 40.63 | 33.29 | 17.43 | 33.61 |

| | | | | |
|---|-------|-------|-------|------|
| 3.1.3 Percentage of households applying pesticides for palay and corn | | | | |
| PESTICIDE | Palay | Corn | Palay | Corn |
| Insecticides | 60.34 | 11.86 | 52.29 | 6.56 |
| Weedicides/herbicides | 33.16 | 5.29 | 30.28 | 5.74 |
| Others | 4.18 | 0.47 | 4.59 | 0.82 |

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 | | 34.93 |
| Cattle | 0.46 | 26.23 | | 15.79 |
| Hog | 2.50 | 63.73 | | 64.59 |
| Goat | 0.19 | 15.54 | | 33.01 |
| Others | | 4.63 | | 9.09 |

| | | | | |
|---|---------|-----------|---------|-----------|
| 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 | | 81.77 |
| Foreign/Layer chicken | 0.37 | 8.57 | | 2.94 |
| Broiler | 0.20 | 3.29 | | |
| Mallard | 0.27 | 7.59 | | 1.87 |
| Others | 0.34 | 7.06 | | 17.05 |

*Includes subsistence farming