

4. 協議議事録

MINUTES OF MEETING

4-1 基本設計調査

ON THE PROJECT

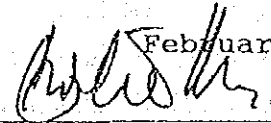
FOR WESTERN BARRIOS IMPOUNDING IRRIGATION

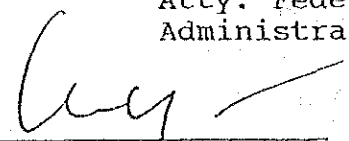
In response to a request from the Government of the Republic of the Philippines, the Government of Japan decided to conduct a Basic Design Study on the Project for THE WESTERN BARRIOS IMPOUNDING IRRIGATION and entrusted the study to the Japan International Cooperation Agency (JICA). JICA sent to the Philippines the study team headed by Mr. Yoshiro Okamoto, Senior Engineer, Design Department, Agricultural Structure Improvement Bureau, Ministry of Agriculture, Forestry and Fisheries, from January 19, to February 26, 1989.

The team had a series of discussions on the Project with officials concerned from the Government of the Republic of the Philippines headed by Atty. Federico N. Alday, Jr., Administrator, National Irrigation Administration (NIA), including Atty. Mariano Un. Ocampo III, Governor, Province of Tarlac, and conducted a field survey in Manila and Tarlac province.

As a result of the study, both parties agreed to recommend to their respective Governments the review of the major points of understanding reached between them, towards the realization of the Project.


Mr. Yoshiro Okamoto
Leader of Mission, JICA

February 7, 1989

Atty. Federico N. Alday, Jr.
Administrator, NIA


Atty. Mariano Un. Ocampo
Governor, Province of Tarlac

MAJOR POINTS OF UNDERSTANDING

OBJECTIVE

1. Objectives of the Project are to provide and improve the present conditions of agricultural infrastructure thus encouraging small farmers to increase income and agricultural productivity.

PROJECT SITE

2. The site of the Project is located in the eastern slopes of the Zambales mountains in the municipality of Tarlac, Tarlac Province.

(site map is attached as ANNEX I)

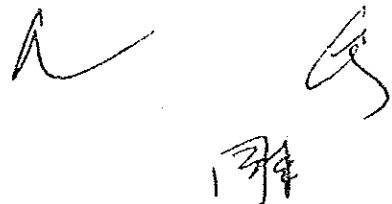
REQUEST

3. The Project components requested by the Philippine side are as follows:

- (1) Construction of four (4) small impounding dams across the tributaries of the Bulsa River
- (2) Construction of irrigation facilities
- (3) Construction of two (2) temporary bridges crossing Bulsa River
- (4) Construction of maintenance roads

IMPLEMENTING AGENCY

4. The National Irrigation Administration (NIA) shall be responsible for realization and execution of the Project. Operation and maintenance of the Project may be turned over to the Provincial Government of Tarlac when, as determined by NIA, the capability to operate and maintain the same is assured.

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JAPAN'S GRANT AID SYSTEM

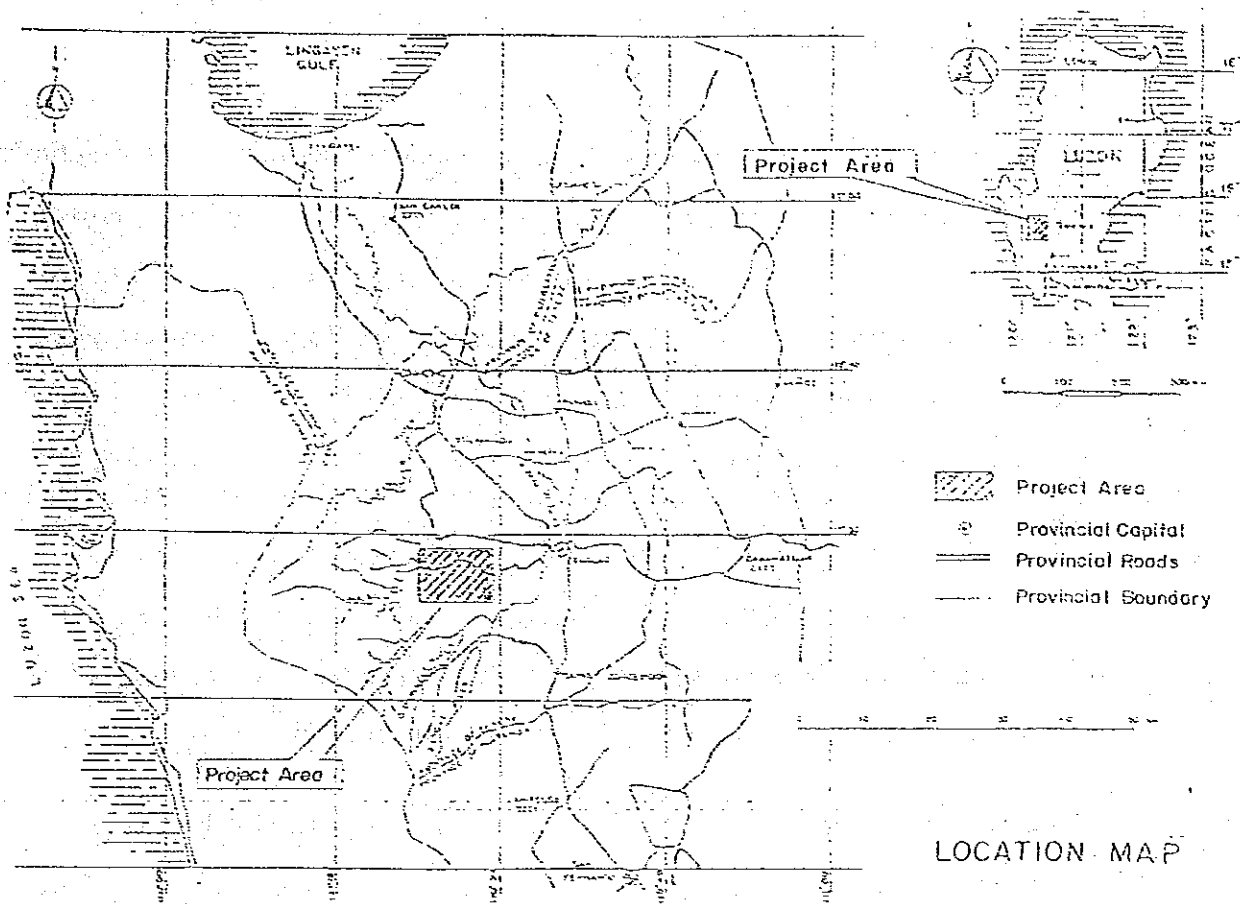
5. It is understood that the Japanese grant aid system as explained by the team includes the employment of a Japanese consulting firm and a Japanese general contractor in the implementation of the Project.

UNDERTAKING OF THE GOVERNMENT OF JAPAN

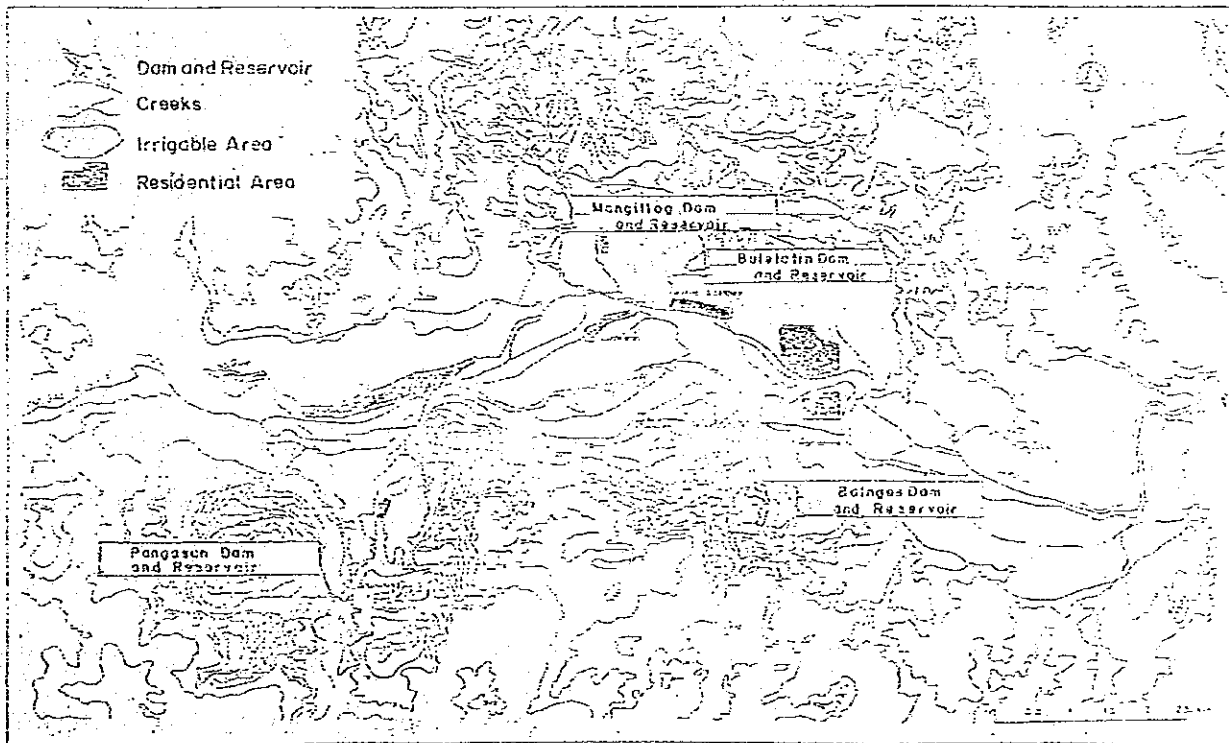
6. The team will convey to the Government of Japan the request of the Government of the Republic of the Philippines that the former shall take necessary measures to implement the Project.

UNDERTAKING OF THE GOVERNMENT OF THE REPUBLIC OF THE PHILIPPINES

7. The Government of the Republic of the Philippines will take necessary measures listed in ANNEX II, as proposed by the team on condition that the Japan's grant aid would be extended to the Project.
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LOCATION MAP



GENERAL PLAN OF THE PROJECT

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ANNEX II

1. To acquire the land or the right-of-way required for the Project implementation. In connection with the smooth project implementation, NIA shall inform the team by February 26, 1989 that NIA has secured written commitments in which all land owners in the project facilities sites have agreed to transfer their ownership to the Philippine Government.
2. To ensure the land or right-of-way necessary for construction of the temporary access roads from existing rural roads to the proposed construction sites.
3. To secure the permission in allowing transportation of vehicles, machinery and construction materials on the existing national and rural roads.
4. To secure exemption on import duties and assume incidental expenses, and to take necessary measures for customs clearance for the materials, equipment and spare parts brought into the Philippines for the implementation of the Project.
5. To assume the Value Added Tax (VAT) which is imposed on the purchase of Philippine supplies and materials for the Project.
6. To shoulder commission fees to the Japanese foreign exchange bank for banking services based on the banking arrangements as follows:

6.1 Advising Commission of Authorization to Pay

6.2 Payment Commission

7. To assist Japanese nationals whose services may be required in connection with the supply of products and services under the verified contracts, such facilities as may be necessary for their entry into and stay in the Philippines for the performance of their work.
8. To secure exemption for Japanese nationals from customs duties, internal taxes and other fiscal levies which may be imposed in the Philippines with respect to the supply of products and services under the verified contracts.
9. To bear all expenses, other than those to be borne by the grant aid, necessary for the implementation of the Project.
10. To fully operate and maintain the completed project facilities for the benefit of the farmers concerned.

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MINUTES OF DISCUSSIONS
THE DRAFT REPORT OF THE BASIC DESIGN STUDY
FOR THE PROJECT ON THE WESTERN BARRIOS IMPOUNDING
IRRIGATION IN TARLAC, TARLAC

In response to a request from the Government of the Republic of the Philippines, the Government of Japan decided to conduct a Basic Design Study of the Project on the Western barrios Impounding Irrigation in Tarlac, Tarlac (hereinafter referred to as "the Project") and entrusted the study to the Japan International Cooperation Agency (JICA). JICA sent the Basic Design study team to the Philippines from January 30 to February 26, 1989.

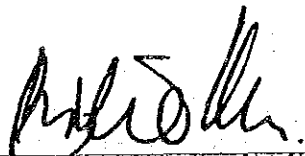
As a result of the study and discussions, JICA prepared a draft final Report on the Project and sent a Mission headed by Mr. YOSHIRO OKAMOTO, Senior Engineer, Agricultural Structure Improvement Bureau, Design Department, Ministry of Agriculture, Forestry and Fishery, to explain and discuss the report from May 15 to 20, 1989.

Both parties, after series of discussions on the report, agreed to recommend to their respective governments the review of the major points of understanding reached between them, attached herewith, toward the realization of the Project.

May 19, 1989

岡本 芳郎

YOSHIRO OKAMOTO
Leader of Japanese Basic
Design Study Team, JICA

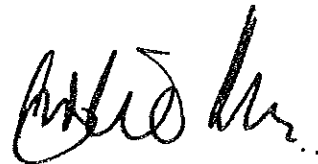


Atty. FEDERICO N. ALDAY, JR.
Administrator, NIA

MAJOR POINTS OF UNDERSTANDING

1. The Philippine side has agreed in principle to the basic design proposed in the draft final report.
2. The Philippine side understood the system of Japan's grant aid programme and confirmed the arrangement which is mentioned in the minutes of discussions on the Project signed on February 7, 1989 between Japanese team leader and Administrator of National Irrigation Administration.
3. The final report (10 copies in English) on the Project will be submitted to the Philippine side by the end of July 1989.

岡本景郎



5. 統計資料

SUMMARY OF MAJOR STATISTICAL SERIES

SUMMARY OF MAJOR STATISTICAL SERIES (continued)

Statistical series	Latest data		Compared to		Value	Percent change
	Reference period	Value	Reference period	Value		
Part 1. General Statistics						
Chapter 1. Population and Housing Statistics						
1. Population (1,000 persons)	May 1, 1980	48,098.0	May 1, 1975	42,071.0	14.3	
2. Sex distribution						
Both sexes (1,000 persons)	May 1, 1980	48,098.0	May 1, 1975	42,071.0	14.3	
Male (percent)		50.2		50.6		
Female (percent)		49.8		49.4		
3. Regional distribution						
Philippines (1,000 persons)	May 1, 1980	48,098.0	May 1, 1975	42,071.0	14.3	
Metropolitan Manila Area (National Capital Region)		5,926.0		4,570.0	19.2	
Region 1		3,541.0		3,269.0	8.3	
Region 2		2,216.0		1,933.0	14.6	
Region 3		4,803.0		4,210.0	14.1	
Region 4		6,118.0		5,214.0	17.3	
Region 5		3,477.0		3,194.0	8.9	
Region 6		4,526.0		4,146.0	9.2	
Region 7		3,787.0		3,387.0	11.8	
Region 8		2,800.0		2,800.0	7.7	
Region 9		2,528.0		2,048.0	23.4	
Region 10		2,758.0		2,314.0	19.2	
Region 11		3,347.0		2,715.0	23.3	
Region 12		2,271.0		2,070.0	9.7	
Chapter 2. Income and Prices						
1. Average family income (pesos)						
Philippines	1985	31,052	1971	3,726	733.4	
Urban		46,127		5,567	836.2	
Metropolitan Manila Area		57,193		7,785	634.7	
Rural		21,875		2,813	676.3	
2. Consumer price index for all items (1976=100)						
Philippines	June 1988	400.5	June 1987	367.5	9.0	
4. Total City population (1,000 persons)						
	May 1, 1980	10,181.0	May 1, 1975	8,725.0	16.7	
Ten most populous cities						
Manila		5,730.0		4,866.0	17.8	
Quezon		1,630.0		1,479.0	10.2	
Davao		1,166.0		937.0	21.8	
Cebu		610.0		485.0	25.8	
Caloocan		430.0		413.0	18.6	
Zamboanga		468.0		397.0	17.9	
Pasay		344.0		265.0	29.8	
Bacolod		288.0		255.0	12.9	
Iloilo		252.0		223.0	11.5	
Cagayan de Oro		246.0		227.0	7.9	
		227.0		155.0	37.6	

SUMMARY OF MAJOR STATISTICAL SERIES (continued)

Statistical series	Latest data			Compared to		
	Reference period	Value	Percent change	Reference period	Value	Percent change
Metropolitan Manila Area (National Capital Region)	1987	437.6	10.9	1986	394.5	
Areas Outside Metropolitan Manila	1987	353.5	8.6	1986	362.3	
Region 1	1987	380.5	9.0	1986	349.2	
Region 2	1987	379.2	9.4	1986	346.7	
Region 3	1987	420.4	8.2	1986	388.4	
Region 4	1987	379.8	9.4	1986	347.2	
Region 5	1987	401.1	11.5	1986	359.6	
Region 6	1987	405.2	7.5	1986	377.0	
Region 7	1987	386.3	7.9	1986	367.7	
Region 8	1987	375.4	9.3	1986	343.6	
Region 9	1987	365.9	6.8	1986	345.9	
Region 10	1987	392.8	6.2	1986	369.9	
Region 11	1987	402.2	10.4	1986	364.2	
Region 12	1987	393.8	7.0	1986	368.0	

Chapter 3. Economic Accounts

1. Gross national product (million pesos)	1987	706,251	13.9	1986	619,815	
At current prices	1987	94,680	5.7	1986	89,611	
At 1972 prices	1987	95,948	5.1	1986	91,287	
2. Gross domestic product by industrial origin (million pesos)	1987	27,331	0.4	1986	27,233	
at 1972 prices	1987	1,521	(2.4)	1986	1,558	
Agriculture, fishery & forestry	1987	23,263	7.1	1986	21,717	
Mining and quarrying	1987	3,964	17.2	1986	3,382	
Manufacturing	1987	1,908	10.7	1986	1,723	
Construction	1987	5,251	2.9	1986	5,105	
Electricity, gas, and water	1987	15,153	5.7	1986	14,337	
Transport, communication and storage	1987	5,754	19.1	1986	4,831	
Commerce	1987	6,106	1.1	1986	6,039	
Finance and Housing	1987	5,697	6.2	1986	5,362	
Private Services	1987			1986		
Government Services	1987			1986		

SUMMARY OF MAJOR STATISTICAL SERIES (continued)

Statistical series	Latest data			Compared to		
	Reference period	Value	Percent change	Reference period	Value	Percent change
3. Expenditures on gross domestic product at 1972 prices (million pesos)	1987	95,948	5.1	1986	91,287	
Personal consumption expenditures	1987	70,260	5.5	1986	66,597	
General government expenditures	1987	8,774	7.2	1986	8,187	
Gross domestic capital formation	1987	12,190	19.7	1986	10,181	
Construction	1987	6,343	15.2	1986	5,505	
Durable equipment	1987	5,293	16.3	1986	4,552	
Increase in stocks	1987	554	346.8	1986	124	
Exports (Less) imports	1987	23,299	(1.1)	1986	23,560	
	1987	21,982	25.2	1986	17,555	
4. Per capita national income (pesos)	1987			1986		
At current prices	1987	9,735	10.0	1986	8,853	
At 1972 prices	1987	1,307	2.0	1986	1,281	
5. Per capita personal consumption expenditure (pesos)	1987			1986		
At current prices	1987	9,095	7.2	1986	8,481	
At 1972 prices	1987	1,225	3.0	1986	1,189	
Part II. Economic Statistics						
Chapter 4. Natural Resources						
1. Classified land area (1,000 hectares)	1987			1986		
Available and disposable	1987	14,108,087	1.8	1986	13,852,398	
Timberland	1987	15,010,616	0.3	1986	14,961,027	

SUMMARY OF MAJOR STATISTICAL SERIES (continued)

SUMMARY OF MAJOR STATISTICAL SERIES (continued)

Statistical series	Latest data			Compared to			Percent change
	Reference period	Value	Reference period	Value	Reference period	Value	
2. Fish production (1,000 m.t.)	1987	2,213.0	1986	2,089.5	1986	5,508.3	(2.7)
Commercial fishing		591.2		546.2		3,162.4	3.2
Aquaculture		560.9		470.9		2,135.3	(12.8)
Municipal fishing and sustenance fishing		1,060.9		10,724.0		100.6	35.6
						58.3	4.1
						138.7	(11.2)
3. Value of fishing production (million pesos)	1987	37,241.9	1986	37,331.5	Crop year 1987	85,129.8	9.5
Commercial fishing		9,870.7		9,247.9		70,378.1	3.2
Aquaculture		11,313.6		10,832.2		28,353.4	(0.2)
Municipal fishing and sustenance fishing		16,107.5		17,251.5		10,287.7	20.8
4. Production of logs, lumber, plywood and veneer (1,000 m ³)	1987		1986		Crop year 1987	5,172.5	2.0
Logs		4,142		3,434		27,397.3	(0.7)
Lumber		964		977		1,277.2	23.6
Plywood		504		424		14,151.7	40.7
Veneer		75		73		4,496.1	83.1
Chapter 5. Agriculture					Crop year 1986	7,682.9	11.7
1. Production of agricultural crop (1,000 m.t.)	Crop year 1987	30,963.6	Crop year 1985	31,588.8	Crop year 1986	731.1	77.9
Food crops		25,508.5		25,980.5		1,005.8	31.9
Palay (Rough Rice)		8,539.9		9,246.8		804.3	61.2
Corn (Shelled)		4,279.1		4,090.7		17,115	0.0
Rootcrops		3,769.2		3,714.4		727,029	0.9
Fruits and vegetables		8,561.1		8,568.9			
Other food crops		360.2		359.7			
3. Number of registered Samabang Mayon	1987	17,115	1986	17,115	1986		
4. Membership of registered Samabang Mayon	1987	727,029	1986	727,029	1986		
Chapter 6. Establishment Characteristics: Industrial Sectors							
1. Number of newly registered corporations and partnerships	1987	7,055	1986	7,055	1986	5,903	41.0
Corporations		1,212		1,212		899	21.3

SUMMARY OF MAJOR STATISTICAL SERIES (continued)

Statistical series	Latest data		Compared to		Percent change
	Reference period	Value	Reference period	Value	
2. Capital increases & withdrawals of corporations & partnerships (million pesos)	1987		1986		
Increases	4,938.5	3,024.8	1986	3,146.3	63.3
Withdrawals	1,603.8	598.8			167.8
Net effect	3,334.7	2,426.0			37.5
3. Amount of investments approved under P.D. 1789 and P.D. 218 (million pesos)	1986	8,360.2	1986	3,146.3	165.7
Local	4,532.8	1,552.5			217.7
Foreign	3,427.3	1,583.8			115.0
4. Value of manufacturing output (million pesos)	1986	247,461	1985	224,786	10.1
Food	59,861	46,169			29.7
Beverages	15,877	14,083			12.7
Tobacco	13,995	13,169			6.3
Textiles	11,584	10,309			12.4
Footwear & wearing apparel	6,899	5,018			37.5
Wood and cork	6,241	5,435			14.8
Furniture and fixtures	1,469	1,180			24.5
Paper	7,851	5,427			44.7
Printing	2,917	2,425			20.3
Leather	195	181			7.7
Rubber	3,337	2,823			18.2
Chemicals	27,066	22,561			20.0
Petroleum and coal	38,348	46,472			(20.9)
Non-metallic mineral products	1,049	947			10.8
Basic metal	19,272	15,008			28.4
Metal products	3,595	3,789			(4.6)
Machinery except electrical	1,553	1,691			(8.2)
Electrical machinery	14,102	10,809			30.5
Transport equipment	2,606	2,546			2.4
Miscellaneous	1,219	1,071			13.8

SUMMARY OF MAJOR STATISTICAL SERIES (continued)

Statistical series	Latest data		Compared to		Percent change
	Reference period	Value	Reference period	Value	
5. Value of mining production (million pesos)	1986		1985		
Precious metal		8,570.1		6,274.1	36.6
Base metals		5,884.3		7,544.5	(22.0)
Non-metallics		2,768.6		2,946.0	(6.0)
Other minerals		2,814.4		4,221.9	(33.3)
6. Value of private building construction (million pesos)	1987	11,124.0	1986	6,531.0	70.3
Metropolitan Manila Area (National Capital Region)		6,110.0		3,115.0	96.1
Rest of the Regions		5,014.0		3,416.0	46.8
Residential buildings		5,832.0		3,317.0	75.8
Metropolitan Manila Area (National Capital Region)		3,052.0		1,581.0	93.7
Rest of the Regions		2,771.0		1,736.0	59.6
Non-residential buildings		4,108.0		2,325.9	76.7
Metropolitan Manila Area (National Capital Region)		2,289.0		992.0	130.7
Rest of the Regions		1,820.0		1,333.9	36.5
Additions/alterations		1,194.0		889.0	33.2
Metropolitan Manila Area (National Capital Region)		759.0		542.0	40.0
Rest of the Regions		424.0		347.0	22.2

SUMMARY OF MAJOR STATISTICAL SERIES (continued)

Statistical series	Latest data		Compared to	
	Reference period	Value	Reference period	Percent change
Chapter 7. Foreign Trade, Balance of Payments				
1. Direction of external trade				
(million dollars)	1987		1986	
Exports	5,720.2	4,841.8	18.1	
Imports	6,737.0	5,043.6	33.5	
Balance of trade (all countries)	(1,016.8)	(201.8)	403.9	
2. Total exports (million pesos)				
	1987	5,720.2	1986	18.1
Ten principal exports	1,121.7	1,067.6	5.1	
Copra	32.0	17.6	81.8	
Sugar	60.3	66.8	(30.5)	
Banana	121.2	130.2	(6.9)	
Logs and lumber	154.6	129.7	19.2	
Desiccated coconut	75.3	44.3	70.0	
Coconut oil	380.5	332.8	14.3	
Pineapples, canned	86.3	83.5	3.4	
Gold	90.5	139.9	(35.3)	
Abaca (unmanufactured)	11.8	12.9	(8.5)	
Copper concentrates	109.1	89.9	21.4	
3. Imports by end use (million \$)				
	1987	6,737.0	1986	33.6
Consumer goods	2,019.1	1,643.9	22.8	
Capital goods	1,210.4	863.9	40.1	
Raw materials and intermediate goods	3,507.5	2,535.6	38.3	
4. Exports of non-traditional manufactures (million dollars)				
	1987	3,604.5	1986	34.3
5. Balance of payments (million \$)				
	1987	264	1986	(78.9)

SUMMARY OF MAJOR STATISTICAL SERIES (continued)

Statistical series	Latest data		Compared to	
	Reference period	Value	Reference period	Percent change
Chapter 8: Tourism				
1. Number of visitor arrivals				
	1987	794,700	1986	761,517 1.7
2. Total tourist receipts (thousand dollars)				
	1987	458,000	1986	647,060 (29.2)
Part III. Social Statistics				
Chapter 9. Vital, Health and Nutrition Statistics				
1. Crude birth and death rates (per 1,000 population)				
	1985		1984	
Birth rate		26.3	27.7	(5.1)
Death rate		6.1	5.9	3.4
2. Number of registered marriages				
	1985	378,550	1984	390,171 (0.4)
3. Daily per capita available food supply (grams/day)				
	1986		1985	
Cereals and cereal products		330.1	323.0	0.3
Roots and tubers		62.9	63.6	(1.1)
Sugar and syrup		26.1	25.2	3.6
Pulses and nuts		5.4	4.9	10.2
Vegetables		99.7	95.0	4.9
Fruits		146.9	149.5	(1.7)
Meat products		56.2	51.2	9.8
Milk and milk products		74.3	75.1	(1.1)
Eggs		11.3	11.3	0.9
Fish and other marine products		90.4	89.5	1.0
Fats and oil		14.5	12.7	14.2
Miscellaneous food		131.8	116.1	11.6

SUMMARY OF MAJOR STATISTICAL SERIES (continued)

SUMMARY OF MAJOR STATISTICAL SERIES (continued)

Statistical series	Latest data		Compared to		Percent change
	Reference period	Value	Reference period	Value	
4. Calorie and nutrient values of available food supply (daily per capita)	1986		1985		
Calorie (number)	2,308	2,248			2.7
Protein (grams)	66	64			3.1
Fats (grams)	43	40			7.5
5. Bed capacity of government and private hospitals	1987		1986		
Government	46,330	46,690			(4.8)
Private	40,491	39,750			1.9
6. Number of hospitals	1987		1986		
Government	581	617			(5.8)
Private	1,173	1,229			(4.6)
Chapter 10. Education					
1. Number of government and private schools	SY 1986-87		SY 1985-86		
Pre-School					
Government	...	2,254.0			...
Private	...	1,257.0			...
Elementary					
Government	33,485.0	33,156.0			1.0
Private	32,037.0	31,817.0			0.7
Secondary					
Government	1,448.0	1,339.0			8.1
Private	5,394.0	5,375.0			0.4
Tertiary					
Government	3,327.0	3,357.0			(0.9)
Private	2,067.0	2,018.0			2.4
Government	1,169.0	1,078.0			8.4
Private	351.0	293.0			19.8
	818.0	785.0			4.2

Statistical series	Latest data		Compared to		Percent change
	Reference period	Value	Reference period	Value	
2. Enrolment in government and private schools (in thousand)	SY 1986-87		SY 1985-86		
Elementary		9,229.6		8,896.9	3.7
Government		8,639.4		8,392.1	2.9
Private		590.2		504.8	16.9
Secondary		5,326.9		3,269.4	62.9
Government		1,969.9		1,949.5	1.0
Private		3,357.0		1,319.9	154.3
Chapter 11. Labor and Employment					
1. Total labor force (1,000 persons)	1987	14,316.0	1986	14,030.0	2.0
Employed		13,339.0		13,480.0	(1.0)
Unemployed		978.0		549.0	78.1
2. Labor force participation rate (percent)					
Philippines	1987	68.2	1986	66.3	2.9
3. Filipino workers sent overseas during the year by major occupation group (land-based)	1987	425,881.0	1986	357,587.0	19.1
Professional, technical and related workers		112,236.0		87,569.0	28.2
Managerial, executive, administrative workers		1,675.0		1,317.0	27.2
Clerical workers		15,923.0		15,261.0	4.4
Sales workers		4,268.0		3,562.0	19.8
Service workers		144,542.0		117,127.0	23.4
Agricultural, animal husbandry, forestry workers and fishermen		2,690.0		1,557.0	72.6
Production process workers, transport equipment operators and laborers		144,541.0		131,294.0	10.1

SUMMARY OF MAJOR STATISTICAL SERIES (continued)

SUMMARY OF MAJOR STATISTICAL SERIES (continued)

Statistical series	Latest data			Compared to		
	Reference period	Value	Percent change	Reference period	Value	Percent change
4. Total kilometers of road	1987	157,809.77	(2.8)	1986	162,325.13	(2.8)
National		26,082.34	(0.6)		26,229.68	(0.6)
Local		131,727.43	(3.2)		136,095.45	(3.2)
5. Number of bridges	1987	11,572	(1.4)	1986	11,740	(1.4)
National government		7,211	(2.3)		7,379	(2.3)
Local government		4,361	0.0		4,361	0.0
6. Length of bridges (linear meters)	1987	304,305.31	(1.5)	1986	308,890.91	(1.5)
National government		225,640.75	(2.0)		230,226.35	(2.0)
Local government		78,664.56	0.0		78,664.56	0.0
7. Coastwise shipping movement at 26 major ports	1987	72,649	6.1	1986	68,442	6.1
Number of vessels entered		72,598	6.3		68,275	6.3
8. International shipping movements at Port of Manila	1987	2,141	7.4	1986	1,993	7.4
Number of vessels entered		2,114	6.9		1,977	6.9
9. Number of licensed radio stations	1987	28,117	(49.9)	1986	56,113	(49.9)
10. Volume of mail handled (1,000 pieces)	1987	812,663	4.5	1986	777,872	4.5
Received from Foreign Countries		199,021	2.1		194,992	2.1
Dispatched to Foreign Countries		89,588	(11.6)		101,353	(11.6)
Delivered in the Philippines		524,074	8.8		481,527	8.8

Statistical series	Latest data			Compared to		
	Reference period	Value	Percent change	Reference period	Value	Percent change
Chapter 12. Social Services						
1. Benefits paid by the Government Service Insurance System (million pesos)	1987	2,183.0	1986	1,931.3	13.0	
2. Benefits paid by the Social Security System (million pesos)	1987	2,096.4	1986	1,470.3	42.5	
Part IV. Infrastructure Statistics						
Chapter 13. Transportation and Communication						
1. Rail transport						
Passengers (1,000 persons)	1987	3,201.8	1986	3,744.3	(14.5)	
Freight tonnes (1,000 mt)		62.2		64.0	(2.8)	
Express tonnes (1,000 mt)		27.7		21.5	28.8	
2. Flights and passengers carried by international carriers						
Passengers carried, total	1987	3,542,626	1986	3,213,675	10.2	
Arrivals		1,678,843		1,538,394	9.1	
Departures		1,863,883		1,675,281	11.3	
Flights, total		20,879		19,656	6.2	
3. Total number of newly-registered motor vehicles						
Cars	1987	10,657	1986	7,571	40.8	
Utility vehicles		23,144		13,826	57.4	
Trucks		5,112		3,413	49.8	
Buses		545		309	76.4	
Trailers		1,112		764	45.5	
Motorcycles		30,430		34,750	(12.4)	

SUMMARY OF MAJOR STATISTICAL SERIES (continued)

Statistical series	Latest data			Compared to		
	Reference period	Value	Percent change	Reference period	Value	Percent change
Chapter 14. Energy and Water Resources						
1. Electric Energy (million kWh)	1987			1986		
Production		20,958.0	8.9		19,254.0	
Consumption		16,849.8	9.9		15,325.1	
Part V. Financial Statistics						
Chapter 15. Public Finance						
1. Holdings on government securities (million P) by holders	Dec. 1987	150,299.6	21.5	1986	123,711.1	
In percent		100.0			100.0	
Central Bank		6.1	-8.9		6.7	
Commercial and other banks		14.4	21.1		11.9	
Trust funds		6.7	6.3		6.3	
Semi-government entities		13.7	12.2		12.2	
Private sector		59.1	51.5		45.6	
2. National government expenditures (million pesos)	1988	169,728	5.8	1987	160,416	
In percent		100.0			100.0	
Economic services		20.9	17.9		17.9	
Social services		20.9	19.5		19.5	
National defense		5.7	5.1		5.1	
General public service		11.7	11.3		11.3	
Net lending		4.5	5.1		5.1	
Debt Service Fund		36.2	41.1		41.1	

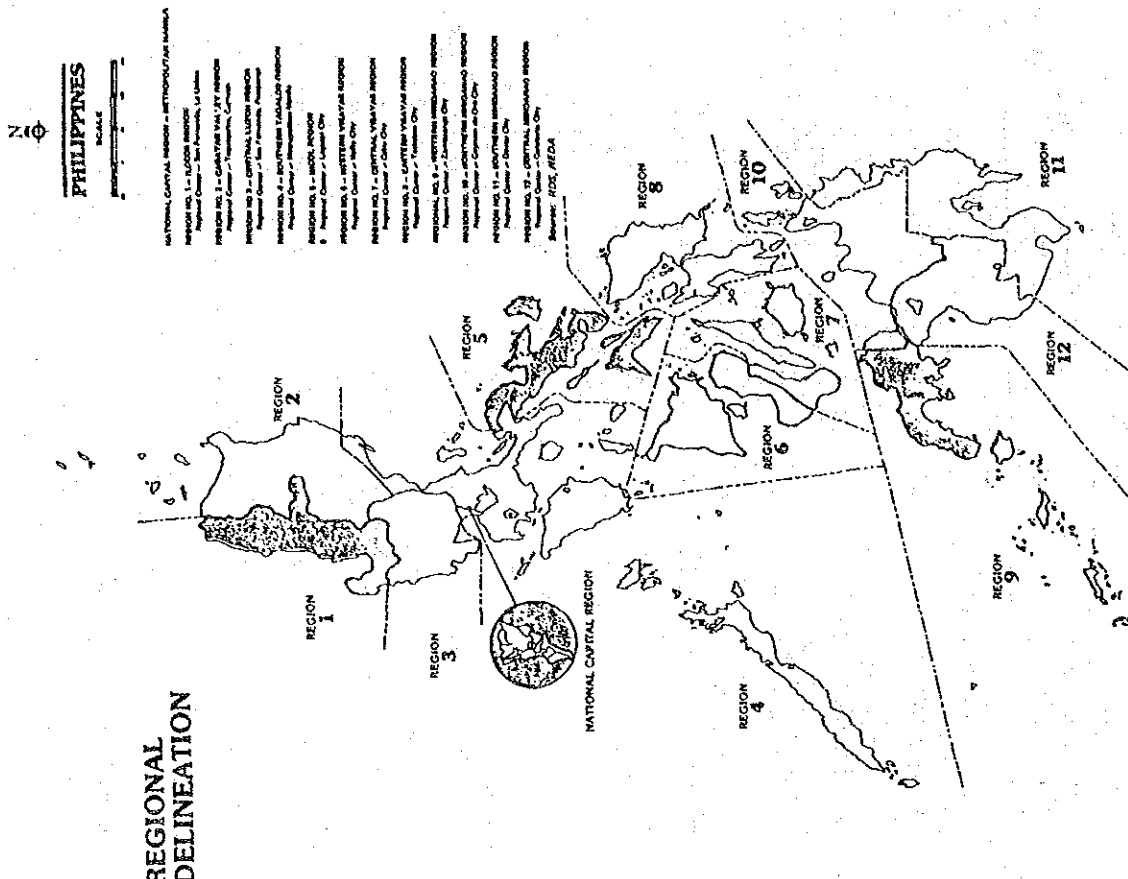
SUMMARY OF MAJOR STATISTICAL SERIES (continued)

Statistical series	Latest data			Compared to		
	Reference period	Value	Percent change	Reference period	Value	Percent change
3. Internal debt outstanding by level of government (million pesos)						
	4th Qtr 1987	162,828.7		1986	144,351.6	12.8
National government		152,479.6	41.1		108,065.2	
Local government		116.0	(28.1)		161.3	
Government corporations		9,313.3	(25.0)		12,411.1	
Monetary institutions		919.8	(95.1)		23,694.0	
4. Internal debt outstanding by period of maturity (million pesos)						
	4th Qtr 1987	162,828.7		1986	144,351.6	12.8
Long term		25,959.9	(5.9)		27,595.8	
Medium term		23,014.6	35.6		16,975.2	
Short term		113,854.3	14.1		99,779.6	
Chapter 16. Money and Banking						
1. Money supply (million pesos)	December 1987	52,090.3		1986	42,557.2	22.1
2. Net foreign assets (million pesos)	December 1987	(108,213.1)		1986	(112,514.3)	(3.6)
3. Net domestic credits (million pesos)	December 1987	108,360.4		1986	124,728.0	(13.1)
4. Non-Money supply deposits (million pesos)	December 1987	110,346.5		1986	101,463.5	8.8
5. Net other accounts (million pesos)	December 1987	(462,269.5)		1986	(113,907.0)	42.5
6. Loans and investment outstanding (million pesos)	1987	143,914.0		1986	139,052.4	(23.9)

SUMMARY OF MAJOR STATISTICAL SERIES (continued)

Statistical series	Latest data		Compared to		Value	Reference period	Value	Percent change
	Reference period	Value	Reference period	Value				
In percent		100.0		100.0				
Commercial banks		78.8		68.4				
Rural banks		5.3		3.8				
Development banks		10.2		6.6				
Savings banks		5.7		3.1				
7. Total assets and liabilities of Central Bank (million pesos)	Dec. 1987		1986					
Total assets		325,185.0		294,810.1				10.3
Total liabilities		324,473.0		294,149.0				10.3
8. Total assets and liabilities of commercial banks (million pesos)	Dec. 1987		1986					
Total assets		274,582.2		293,418.9				(6.4)
Total liabilities		242,516.4		271,013.0				(10.5)
9. Total assets and liabilities of development banks (million pesos)	Dec. 1987		1986					
Total assets		18,498.8		75,037.4				(75.3)
Total liabilities		12,077.5		68,944.6				(82.5)

REGIONAL DELINEATION



REGIONS	13
PROVINCES & SUB PROVINCES	75 plus 2
CITIES	60
MUNICIPALITIES	1,831
BARANGAYS	41,798

Table 1.1 - POPULATION, LAND AREA AND DENSITY

BY REGION AND PROVINCE: CENSUS YEARS 1918 to 1980

Region and province	Population (thousands)						Land area (km)	Density (persons/km)						
	1980 (May 1)	1975 (May 1)	1970 (May 6)	1948 (Oct 1)	1939 (Jan 1)	1918 (Dec 31)		1980 (May 1)	1975 (May 1)	1970 (May 6)	1948 (Oct 1)	1939 (Jan 1)	1918 (Dec 31)	
Philippines	48,098	42,071	36,684	27,088	19,234	10,316	300,000	160.3	140.2	122.3	99.3	84.1	53.3	34.4
Metropolitan Manila Area (National Capital Region)	5,926	4,970	3,967	2,462	1,569	461	636.0	9,317.4	7,814.5	6,236.9	3,871.8	2,467.0	1,561.3	723.3
Manila	1,630	1,479	1,331	1,139	984	285	38.3	42,571.4	38,619.2	34,746.4	29,728.7	25,689.5	16,279.2	7,449.2
Caloocan City	468	397	275	145	55	19	55.8	8,383.8	7,118.3	4,918.5	2,607.9	980.8	695.7	350.4
Pasay City	288	255	206	133	89	19	13.9	20,702.9	18,345.2	14,840.5	9,544.8	6,383.3	3,988.4	1,345.1
Quezon City	1,166	957	754	398	111	0	166.2	7,014.8	5,757.3	4,539.4	2,394.6	668.9	234.7	0.0
Las Pias	136	82	46	16	9	3	41.5	3,289.5	1,966.5	1,102.0	387.8	223.6	164.4	69.2
Makati	373	334	265	115	41	13	29.9	12,462.6	11,185.5	8,860.1	3,830.8	1,382.4	1,121.4	421.8
Malabon	191	175	142	76	46	22	23.4	8,162.4	7,473.4	6,047.6	3,266.6	1,985.3	1,422.4	927.1
Mandaluyong	205	182	149	72	26	6	26.0	7,898.7	7,010.3	5,746.4	2,754.6	1,011.9	700.0	223.3
Marikina	212	188	113	40	24	15	38.9	5,439.9	4,330.4	2,915.2	1,040.0	600.3	389.9	245.3
Muntinlupa	137	95	65	22	19	5	46.7	2,926.7	2,024.9	1,393.1	468.8	394.9	198.9	100.9
Navotas	126	97	83	49	29	13	2.6	48,517.7	37,345.4	32,017.3	18,946.9	11,111.2	8,023.5	5,174.6
Paranaque	208	159	97	62	29	22	38.3	5,445.2	4,150.7	2,538.2	1,616.1	754.2	551.6	577.8
Pasig	269	210	157	62	35	17	13.0	20,659.2	16,147.3	12,037.8	4,779.2	2,723.6	2,118.5	1,289.8
Pateros	40	33	26	13	8	4	10.4	3,873.8	2,155.9	2,448.8	1,266.6	805.8	688.5	395.5
San Juan del Monte	130	122	105	57	32	6	10.4	12,508.5	11,778.0	10,053.8	5,467.4	3,023.2	1,814.4	593.5
Taguig	134	74	55	22	15	8	33.7	3,980.3	2,187.0	1,693.7	848.5	455.2	358.7	249.9
Valenzuela	212	151	98	41	17	9	47.0	4,518.4	3,204.4	2,094.8	882.4	356.2	286.6	198.4
Region 1	3,541	3,269	2,991	2,428	1,944	1,376	21,568.4	164.2	151.6	138.7	112.6	90.1	80.1	63.8
Abra	160	147	146	115	87	73	3,975.5	40.3	37.0	36.6	29.0	21.8	22.1	18.4
Benguet	355	302	264	184	110	44	2,655.4	113.6	113.8	99.3	69.2	41.4	45.9	16.5
Ilocos Norte	391	372	343	287	251	219	3,399.3	114.9	109.4	101.0	84.5	74.0	70.0	94.4
Ilocos Sur	444	420	385	338	276	247	2,579.6	172.0	162.7	149.3	131.1	107.1	105.4	95.8
La Union	453	415	374	293	237	178	1,493.1	303.1	277.7	250.3	196.5	159.0	139.3	119.2
Mt. Province	103	94	93	86	62	49	2,097.3	49.1	44.9	44.4	40.9	29.6	28.1	23.4
Pangasinan	1,636	1,520	1,386	1,124	921	742	5,368.2	304.8	283.2	258.2	209.4	171.5	138.2	105.4
Region 3	4,803	4,210	3,615	2,524	1,837	1,039	18,230.8	263.4	230.9	198.3	138.5	100.8	86.1	57.0
Bataan	323	263	216	145	93	58	1,373.0	235.4	191.7	157.5	105.8	67.7	62.6	42.2
Bulacan	1,096	900	736	514	395	240	2,625.0	417.5	342.7	281.1	195.9	150.1	121.9	91.4
Nueva Ecija	1,069	948	851	608	468	227	5,284.3	202.4	179.4	161.1	115.1	88.6	78.9	43.0
Pampanga	1,182	1,042	907	617	416	258	2,180.7	541.8	477.9	416.0	283.1	191.2	172.0	118.3
Tarlac	689	641	580	427	327	172	3,053.4	225.5	209.9	183.3	139.7	107.1	86.5	56.3
Zambales	444	416	343	213	138	84	3,714.4	119.5	112.1	92.4	57.5	37.4	28.8	22.8

Table 1.4 - POPULATION BY AGE GROUP AND SEX,
(Figures are estimates based
on the 20 percent sample)

BY REGION, URBAN-RURAL: 1980 (continued)

Age group	Region 3				Urban				Rural			
	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female
All ages	4,802,793	2,406,886	2,395,907	2,009,259	988,245	1,021,014	2,793,534	1,418,641	1,374,893			
Under 1 year ...	171,558	88,549	83,009	68,853	35,813	33,040	102,705	52,736	49,969			
1-4	577,501	297,290	280,211	229,782	118,700	111,082	347,719	178,590	169,129			
5-9	655,895	338,834	317,061	258,072	132,760	125,312	397,823	206,074	191,749			
10-14	611,061	312,759	298,302	246,472	124,323	122,149	364,589	188,436	176,153			
15-19	524,457	261,883	262,574	222,625	107,070	115,555	301,832	154,813	147,019			
20-24	459,487	223,532	235,955	204,525	95,370	109,155	254,962	128,162	126,800			
25-29	383,618	187,629	195,989	169,370	80,361	89,009	214,248	107,268	106,980			
30-34	318,705	159,955	158,750	143,284	71,010	72,274	175,421	88,945	86,476			
35-39	231,728	117,152	114,576	98,972	49,227	49,745	132,756	67,925	64,831			
40-44	202,083	101,111	100,972	86,357	42,449	43,908	115,726	58,662	57,064			
45-49	162,480	79,457	83,023	69,052	33,384	35,668	93,428	46,073	47,355			
50-54	134,840	66,457	68,383	58,471	28,903	29,568	76,369	37,554	36,815			
55-59	108,478	50,357	58,121	44,161	20,139	24,022	64,317	30,218	34,099			
60-64	88,487	41,392	47,095	36,510	16,502	20,008	51,977	24,890	27,087			
65-69	73,980	34,568	39,412	30,855	13,603	17,252	43,125	20,965	22,160			
70-74	45,361	21,563	23,698	19,147	8,687	10,460	26,214	12,976	13,238			
75 and over	53,074	24,298	28,776	22,751	9,944	12,807	30,323	14,354	15,969			

Table 1.7b - POPULATION PROJECTIONS FOR THE PHILIPPINES,
(Medium Assumption - Moderate Fertility and
Moderate Mortality Decline)
(In thousands)

BY SEX AND BY REGION: 1980 TO 2000

Year	Philippines			Metropolitan Manila Area (National Capital Region)			Region 1			Region 3		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
1980	48,316	24,232	24,084	5,970	2,872	3,098	3,543	1,763	1,780	4,827	2,418	2,409
1981	49,536	24,846	24,690	6,156	2,958	3,198	3,612	1,798	1,813	4,947	2,479	2,468
1982	50,783	25,475	25,308	6,345	3,046	3,299	3,682	1,835	1,847	5,070	2,541	2,529
1983	52,055	26,117	25,938	6,540	3,137	3,403	3,754	1,872	1,882	5,196	2,605	2,592
1984	53,351	26,772	26,579	6,740	3,230	3,509	3,828	1,910	1,918	5,325	2,670	2,655
1985	54,668	27,437	27,231	6,974	3,358	3,616	3,903	1,949	1,954	5,456	2,736	2,720
1986	56,004	28,112	27,891	7,148	3,423	3,725	3,979	1,988	1,990	5,590	2,804	2,786
1987	57,356	28,796	28,560	7,354	3,520	3,834	4,056	2,028	2,028	5,726	2,872	2,853
1988	58,721	29,486	29,235	7,561	3,618	3,943	4,133	2,068	2,065	5,863	2,941	2,922
1989	60,097	30,182	29,914	7,768	3,716	4,052	4,212	2,109	2,103	6,002	3,011	2,990
1990	61,480	30,883	30,598	7,974	3,814	4,160	4,292	2,150	2,142	6,142	3,082	3,060
1991	62,868	31,585	31,283	8,178	3,911	4,267	4,371	2,191	2,180	6,282	3,153	3,129
1992	64,259	32,290	31,969	8,380	4,007	4,373	4,452	2,233	2,219	6,423	3,224	3,199
1993	65,649	32,995	32,654	8,579	4,101	4,478	4,531	2,274	2,257	6,564	3,295	3,269
1994	67,038	33,699	33,339	8,776	4,195	4,582	4,611	2,315	2,296	6,704	3,366	3,338
1995	68,424	34,402	34,021	8,971	4,287	4,684	4,690	2,356	2,334	6,844	3,437	3,407
1996	69,804	35,103	34,701	9,162	4,378	4,785	4,768	2,396	2,372	6,984	3,507	3,476
1997	71,175	35,800	35,375	9,350	4,466	4,884	4,846	2,437	2,410	7,122	3,577	3,545
1998	72,536	36,492	36,044	9,534	4,554	4,981	4,923	2,476	2,447	7,259	3,647	3,612
1999	73,886	37,178	36,708	9,716	4,640	5,076	4,998	2,515	2,483	7,396	3,715	3,679
2000	75,224	37,859	37,365	9,895	4,724	5,171	5,073	2,554	2,519	7,529	3,783	3,746

Table 5.1 - QUANTITY AND VALUE OF AGRICULTURAL PRODUCTION
(Quantity in thousand metric tons;
Value in million pesos)

BY KIND OF CROP, PHILIPPINES: CROPPED 1950 TO 1987
Value in million pesos

Crop Year	All Crops				Food				Commercial				Palay (Rough Rice)			
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value		
1950	6911.0	1497.9	4275.8	1014.9	1735.2	483.0	2606.1	788.6								
1955	8895.1	1583.2	6054.1	935.7	2631.0	627.5	3202.9	612.1								
1960	10411.4	2046.1	7315.1	1187.9	3096.3	878.2	3739.5	711.9								
1965	12242.9	3278.5	8478.8	1965.2	3764.1	1313.3	3992.5	1227.7								
1970	15486.8	8154.0	10670.0	4750.3	4816.8	3403.7	5233.4	2073.7								
1971	15863.8	9288.8	11046.1	5685.1	4847.7	3584.7	5578.4	2613.6								
1972	15557.5	10525.8	10865.7	6933.2	4791.8	3592.6	5324.9	3369.3								
1973	15515.4	10930.7	10086.5	6392.4	5418.9	4538.3	4609.2	2771.2								
1974	17926.7	16931.2	12288.0	10557.0	5638.7	7474.2	5840.7	5180.1								
1975	20002.4	20329.4	13743.9	13603.1	6258.5	6725.3	5909.5	5579.5								
1976	23551.5	20433.7	15661.9	14504.6	7889.6	5929.1	6431.0	6200.0								
1977	24722.5	28082.2	17072.9	17217.9	7649.6	10874.3	6740.6	6890.1								
1978	26340.7	27065.2	18615.8	18373.1	7724.9	8632.1	7198.8	7093.5								
1979	28240.5	34032.2	20478.7	20900.8	7761.8	13131.4	7514.8	7573.9								
1980	32115.0	40978.1	24143.0	26554.4	7972.0	14423.7	7646.5	8785.9								
1981	32082.9	45708.3	24923.7	29880.0	7759.2	15828.3	7910.7	10440.4								
1982	33122.4	46152.6	25671.8	33051.9	7450.6	13100.9	8333.7	11572.6								
1983	30493.7	48574.6	23349.2	31856.1	7144.5	16718.1	7294.9	11281.1								
1984	28654.9	74641.4	22380.8	49222.2	6474.1	25419.2	7828.9	19568.1								
1985	30797.1	91435.8	24796.1	67285.2	6001.0	24150.6	8805.6	29718.7								
1986	31586.8	85129.8	25980.5	70978.1	5608.3	14151.7	9246.8	26353.4								
1987	30963.6	93183.0	25508.5	73277.7	5455.1	19905.3	8589.9	26302.9								

Food Crops

Crop Year	Corn (shelled)				Banana				Mango				Pineapple				Other fruits and nuts 1			
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value		
1950	573.7	89.4	161.4	37.8	27.4	11.7	56.5	8.5	80.5	17.2										
1955	770.1	106.0	294.8	21.3	50.4	17.7	103.2	14.6	147.0	25.1										
1960	1165.3	149.7	307.3	24.1	57.6	13.9	133.9	19.5	176.6	31.4										
1965	1312.7	272.8	684.8	44.1	129.4	27.6	176.1	25.3	223.2	41.3										
1970	2008.2	525.9	896.0	656.9	151.7	142.9	233.4	109.5	288.4	212.5										
1971	2011.8	723.4	1034.8	611.8	137.5	127.0	234.3	121.4	256.6	198.5										
1972	2024.2	1046.1	980.1	781.2	143.4	132.3	282.1	146.6	337.2	287.5										
1973	1842.8	831.4	1012.6	814.7	187.6	180.0	293.4	166.4	309.8	284.6										
1974	2257.5	1504.6	1235.5	1038.1	191.5	297.8	338.3	286.7	326.8	427.0										
1975	2513.9	2100.9	1686.0	1542.6	239.3	254.9	424.4	504.1	337.4	569.2										
1976	2717.3	2394.6	2270.6	817.0	293.1	592.8	419.9	521.5	347.1	553.4										
1977	2774.8	2605.3	2447.4	1043.9	307.6	684.7	421.8	558.1	470.9	749.5										
1978	2786.1	2671.4	3155.8	1510.4	355.2	678.5	464.9	707.0	506.4	825.5										
1979	3030.3	2851.1	3581.8	1749.0	363.3	1056.5	604.6	736.1	607.7	1055.5										
1980	3050.2	3224.4	4093.4	2349.4	544.6	1694.8	1004.8	1173.2	1459.3	1948.2										
1981	3285.9	3985.8	3996.1	2145.4	369.2	1809.6	936.1	588.9	1537.3	2398.1										
1982	3404.1	4343.3	4087.9	2417.8	426.2	1894.8	1213.7	1047.1	1721.3	3237.5										
1983	3134.1	4339.3	3685.4	2519.4	360.7	1403.7	1699.1	1599.8	1546.5	3155.4										
1984	3250.3	7716.6	3850.8	4258.4	366.7	2649.8	1552.5	2286.1	1350.8	2785.5										
1985	3882.8	10794.7	3704.9	4605.7	380.6	3082.8	1979.6	2834.1	1461.8	4338.8										
1986	4090.7	10287.7	3831.7	6264.8	300.8	3010.0	2085.6	3954.0	1451.7	5366.7										
1987	4278.1	12406.5	3580.6	6037.7	346.4	3485.4	2302.0	4738.0	1426.3	5304.1										

Table 5.1 - QUANTITY AND VALUE OF AGRICULTURAL PRODUCTION
(Quantity in thousand metric tons;
Value in million pesos)

BY KIND OF CROP, PHILIPPINES: CROPPYEAR 1950 TO 1987 (continued)

Crop Year	Crops												
	Food						Other food crops 6						
	Citrus 2	Rootcrops 3	Vegetables including onions & potatoes 4	Beans & peas 5	Coffee	Cacao	Peanuts (unshelled)	Other food crops 6	Quantity	Value	Quantity	Value	
1950	19.8	5.2	47.0	15.4	4.0	0.7	1.5	4.1	1.1	12.3	4.1	1.1	---
1955	31.5	9.7	50.7	40.0	7.0	1.5	4.5	5.4	4.7	17.6	5.4	4.7	0.4
1960	43.3	10.5	84.3	42.3	25.9	3.1	9.0	5.2	8.2	15.3	5.2	8.2	1.4
1965	70.8	17.5	149.5	25.7	44.0	4.2	11.3	5.6	49.5	13.2	5.6	49.5	9.0
1970	70.7	41.0	310.2	23.0	48.0	4.3	20.5	16.0	68.0	17.4	16.0	68.0	40.5
1971	62.7	37.7	426.8	23.6	48.5	3.6	18.9	19.1	79.2	18.9	19.1	79.2	52.7
1972	65.5	41.8	446.7	23.6	51.6	3.5	18.9	19.8	87.4	18.9	19.8	87.4	60.5
1973	63.8	50.7	490.5	25.9	50.9	3.6	19.6	24.3	113.1	18.2	24.3	113.1	91.5
1974	61.6	87.5	560.9	23.2	53.0	4.1	34.9	41.3	123.4	21.6	41.3	123.4	152.0
1975	77.9	102.5	1000.9	34.9	91.4	3.3	35.3	98.5	136.0	36.2	98.5	136.0	226.1
1976	120.2	242.8	892.4	41.1	89.8	3.2	45.0	128.5	289.7	40.8	128.5	289.7	450.3
1977	126.0	266.6	1275.6	41.7	105.1	2.9	52.2	148.6	316.5	46.2	148.6	316.5	453.2
1978	122.7	263.8	1060.2	41.1	118.8	3.1	78.8	116.1	306.4	37.8	116.1	306.4	479.5
1979	122.1	311.2	1562.9	42.0	115.5	3.8	132.8	181.4	347.6	49.2	181.4	347.6	747.6
1980	128.0	373.7	2371.6	105.8	136.2	4.2	106.8	189.3	387.0	49.9	189.3	387.0	645.1
1981	135.7	477.9	2624.3	121.5	161.6	4.5	94.9	129.1	397.8	49.6	129.1	397.8	578.6
1982	131.6	368.5	3209.2	132.4	173.0	6.6	138.2	233.5	424.9	48.6	233.5	424.9	658.7
1983	118.4	367.9	4342.3	127.2	114.0	4.9	81.4	175.4	338.4	35.8	175.4	338.4	504.0
1984	125.5	537.7	2982.2	86.0	122.1	5.0	139.1	281.5	350.0	42.2	281.5	350.0	785.2
1985	130.2	594.5	3399.0	94.7	135.3	6.0	191.6	363.7	353.2	45.2	363.7	353.2	1196.6
1986	145.7	720.0	3714.4	96.0	139.6	6.6	204.6	430.9	359.7	43.9	430.9	359.7	1277.2
1987	150.0	713.0	3769.2	96.6	132.0	7.2	190.5	449.7	360.2	47.0	449.7	360.2	1578.6

Table 5.1 - QUANTITY AND VALUE OF AGRICULTURAL PRODUCTION
(Quantity in thousand metric tons;

BY KIND OF CROP, PHILIPPINES: CROPPING 1950 TO 1987 (continued)
Value in million pesos)

Crop year	Commercial										Other commercial crops							
	Coconut		Sugarcane		Abaca		Native tobacco		Virginia tobacco		Rice		Rubber		Mangrove		Other commercial crops	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
1950	846.1	280.8	654.0	146.8	82.2	52.6	25.4	20.7	...	...	...	...	1.3	1.1	1.8	0.6	123.4	0.4
1955	1142.3	241.4	1546.6	321.4	104.5	35.2	20.0	7.5	10.1	17.5	1.7	1.1	2.0	2.4	0.2	0.1	3.0	0.3
1960	1117.3	389.6	1808.7	349.9	94.5	58.8	29.8	13.1	34.2	80.3	2.2	1.1	3.1	3.5	2.1	0.5	4.4	1.4
1965	1533.6	672.3	2034.8	505.3	134.0	78.6	28.5	15.8	17.2	29.2	5.5	3.2	5.9	6.7	2.5	0.5	2.0	0.7
1970	2012.4	1327.1	2594.6	1801.5	122.4	105.7	39.2	80.3	22.0	48.7	3.1	7.1	19.0	27.9	2.4	3.2	1.7	2.1
1971	1679.1	1251.7	2980.2	2079.3	104.6	90.9	35.8	66.3	20.0	44.6	3.1	7.2	20.9	29.2	2.4	3.2	1.8	2.3
1972	2043.5	1442.8	2553.5	1870.3	110.1	102.5	35.8	83.7	20.5	52.0	3.1	6.8	21.7	29.4	2.5	3.3	1.1	1.7
1973	2014.2	1700.4	3190.8	2499.0	119.2	118.5	43.7	107.6	21.1	67.5	3.2	7.5	23.1	32.6	2.5	3.5	1.1	1.7
1974	1964.6	3785.5	3449.7	3020.8	125.9	374.7	44.8	151.6	18.6	84.1	2.8	7.7	28.6	44.4	2.7	3.7	1.0	1.7
1975	2723.1	2895.5	3287.7	2988.4	133.6	514.1	34.9	145.8	22.2	86.4	1.4	2.8	45.7	74.0	1.3	1.2	8.1	8.1
1976	3557.1	2012.5	4070.7	3202.2	139.3	313.4	33.4	125.8	25.5	130.1	0.4	1.0	57.3	137.6	2.8	2.8	3.3	4.1
1977	3944.9	4044.4	3541.1	6175.4	150.5	306.2	27.9	105.6	22.5	83.2	0.4	1.1	58.2	153.0	2.7	1.9	1.3	2.5
1978	4194.8	4398.5	3282.1	3661.8	129.8	240.1	34.5	126.2	22.2	137.2	1.4	3.2	54.4	109.8	3.3	2.8	2.4	12.5
1979	4285.5	8524.9	3188.9	3782.5	148.3	297.0	28.1	189.3	23.2	151.0	1.4	3.2	58.8	190.1	3.9	4.4	3.7	9.0
1980	4570.2	9233.8	3120.8	4236.7	157.2	440.5	33.5	105.7	18.5	108.3	0.2	0.7	67.7	240.0	4.4	5.0	9.5	33.0
1981	4312.1	6332.1	3193.0	8558.8	128.3	366.1	21.2	128.8	17.9	146.5	0.5	1.8	72.0	251.2	3.8	5.1	10.5	38.1
1982	3785.5	5354.3	3402.7	6881.3	119.7	307.4	22.0	113.5	24.8	203.9	0.7	3.1	78.6	182.5	3.8	8.9	13.0	48.0
1983	3494.0	8768.2	3432.5	7181.9	90.9	281.9	17.0	90.9	27.3	202.2	0.6	3.1	69.8	185.3	3.4	14.3	9.0	30.7
1984	2321.9	12270.1	3260.2	11150.0	88.7	574.1	20.2	302.4	46.1	517.0	0.5	4.8	123.1	547.1	3.3	7.9	10.1	45.8
1985	2364.8	12628.7	2747.6	9278.0	83.7	679.8	13.0	264.8	34.0	448.9	0.7	9.3	146.2	786.2	3.3	9.5	7.7	45.4
1986	3162.4	4456.1	2155.3	7662.9	82.7	440.8	19.2	298.2	36.8	464.3	8.1	243.0	154.0	499.1	3.4	10.1	6.4	37.4
1987	3262.5	8231.6	1861.2	8562.9	80.5	450.6	21.6	408.2	36.7	597.6	29.8	799.7	136.7	804.3	3.4	6.8	12.7	43.8

7 Includes nuts used for making copra, desiccated coconut, home-made oil and as food nuts from 1950 to the present. Nuts used for commercial manufacturing were included starting 1970.

8 Includes sugarcane used for centrifugal sugar, muscovado, panela and molasses.

9 Includes kapok from 1950 to the present. Starting 1975, castor beans and cotton (seeded) were added to this category.

Sources: National Economic and Development Authority (formerly NEC),

The Raw Materials Resources Survey Bulletin Series No. 1 June 1959;

Department of Agriculture (DA), Bureau of Agricultural Statistics.

1 Includes atis, avocado, calamito, cashew, chico, guayabano, jackfruit, lanzones, pili and watermelon from 1950 to the present. Grapes were included starting 1975.

2 Includes calamansi, mandarin, orange and pomelo.

3 Includes carabote, cassava, gabi pao (galing), tugi and ubi.

4 Vegetables include cabbage, eggplant, garlic, pechay, radish and tomatoes from 1950 to the present. Ginger was included starting 1970.

5 Includes drybeans and mungo from 1950 to the present. Soybeans were included starting 1970.

6 Includes other fruits and vegetables.

Table 5.2 - AGRICULTURAL AREA HARVESTED AND MEAN YIELD,
(Area in thousand hectares;

BY KIND OF CROP, PHILIPPINES: 1950 to 1987
mean yield in metric tons per hectare)

Crop year	Total area harvested	Food																	
		Pulay (rough rice)				Corn (shelled)				Banana				Mango					
		Area	Mean yield	Area	Mean yield	Area	Mean yield	Area	Mean yield	Area	Mean yield	Area	Mean yield	Area	Mean yield				
1950	5,076.2	2,214.0	1.177	999.0	0.631	97.7	1.652	32.9	0.333	15.2	3.717	49.8	1.652	16.6	1.193	185.5	3.581	20.1	2.612
1955	6,435.3	2,655.5	1.206	1,388.4	0.555	167.0	1.765	56.2	0.897	25.9	3.985	83.2	1.767	19.7	1.599	272.7	4.400	97.9	1.873
1960	7,596.0	3,306.5	1.131	1,845.5	0.631	161.5	1.903	52.5	1.097	22.6	5.925	83.1	2.125	22.9	1.891	289.1	4.883	80.7	2.295
1965	8,252.0	3,199.7	1.248	1,922.8	0.683	220.5	3.106	50.5	2.557	30.1	5.850	70.8	3.153	28.6	2.476	273.7	5.615	53.2	4.060
1970	8,946.6	3,113.4	1.681	2,419.6	0.830	235.2	3.810	45.5	3.334	28.9	6.076	70.8	4.073	21.3	3.319	252.4	5.215	62.8	4.939
1971	9,214.8	3,195.0	1.746	2,427.8	0.829	227.1	4.557	40.5	3.395	28.0	8.368	65.1	3.942	19.0	3.360	246.0	4.963	58.5	5.203
1972	9,480.4	3,332.3	1.598	2,484.3	0.825	249.8	4.020	40.3	3.515	29.6	9.530	70.3	4.763	18.7	3.503	258.5	4.711	65.9	4.587
1973	9,320.7	3,194.2	1.443	2,350.6	0.784	250.4	4.044	43.6	4.303	27.6	10.530	67.6	4.583	19.0	3.358	266.3	4.583	68.4	5.045
1974	10,171.4	3,527.8	1.656	2,726.4	0.828	211.8	5.833	43.5	4.402	26.4	11.912	67.1	4.870	19.1	3.225	313.9	4.494	68.8	5.814
1975	10,800.9	3,632.5	1.627	3,009.9	0.835	233.3	7.227	46.6	5.135	30.5	13.915	67.8	4.976	20.1	3.876	351.2	5.146	75.3	5.994
1976	11,589.0	3,674.0	1.750	3,193.2	0.851	297.7	7.627	35.8	6.187	35.2	11.929	64.8	5.356	22.3	5.390	400.9	5.347	79.7	6.290
1977	11,858.7	3,641.4	1.851	3,242.5	0.856	300.4	8.147	36.2	8.497	36.1	11.584	68.3	6.895	22.1	5.701	451.2	6.147	75.6	6.595
1978	11,895.0	3,601.7	1.999	3,158.1	0.885	284.4	11.096	35.4	9.469	45.3	10.263	65.9	7.664	23.5	5.221	460.7	6.521	78.1	6.713
1979	12,040.1	3,560.7	2.110	3,252.4	0.950	312.0	11.480	38.7	9.388	54.6	11.073	70.4	8.632	24.9	4.904	480.7	7.424	67.7	6.901
1980	12,155.4	3,470.5	2.155	3,199.0	0.976	286.7	12.522	38.7	9.622	62.7	20.495	231.1	7.314	20.8	5.241	523.0	7.135	68.8	7.344
1981	12,182.2	3,419.0	2.233	3,294.8	0.960	285.4	13.063	40.7	8.646	57.9	19.294	235.3	7.139	24.1	5.155	522.6	7.150	68.5	7.553
1982	12,346.4	3,351.1	2.359	3,382.9	0.979	292.4	12.304	38.2	10.322	64.8	20.667	249.8	7.770	24.2	5.140	511.5	6.616	69.3	7.449
1983	11,802.5	3,054.3	2.386	3,132.0	0.990	314.2	11.919	44.7	9.414	62.1	18.751	266.6	5.989	25.3	4.802	513.1	6.150	65.2	5.882
1984	11,957.1	3,162.3	2.497	3,227.0	1.023	322.1	12.024	43.4	8.811	57.3	27.273	261.9	4.999	25.0	5.027	426.7	5.453	65.2	7.241
1985	12,407.3	3,306.5	2.545	3,510.9	1.037	320.5	11.267	45.3	8.465	55.5	26.776	268.0	4.735	25.3	4.916	451.6	5.615	66.1	7.068
1986	12,424.6	3,464.2	2.673	3,595.0	1.106	329.8	11.574	48.2	6.079	59.5	26.909	271.2	4.573	28.2	5.007	456.3	6.314	67.0	7.294
1987	12,539.7	3,255.9	2.632	3,682.6	1.126	324.1	11.362	49.4	5.605	59.2	54.436	272.2	6.766	28.8	4.945	468.8	6.464	64.0	7.389

Table 5.2 - AGRICULTURAL AREA HARVESTED AND MEAN YIELD,
(Area in thousand hectares;
mean yield in metric tons per hectare)

BY KIND OF CROP, PHILIPPINES: 1950 to 1987 (continued)

Crop year	Food crops												Commercial crops															
	Beans & Peas 5			Coffee			Cacao			Peanuts (unshelled)			Other food crops 6			Coconut 7		Sugarcane 8		Absca		Native tobacco		Virginia tobacco				
	Area	Mean yield	Mean yield	Area	Mean yield	Mean yield	Area	Mean yield	Mean yield	Area	Mean yield	Mean yield	Area	Mean yield	Mean yield	Area	Mean yield	Mean yield	Area	Mean yield	Mean yield	Area	Mean yield	Mean yield	Area	Mean yield	Mean yield	
1950	34.0	0.453	0.408	9.8	0.408	4.0	0.175	21.0	0.586	0.5	2.200	985.0	0.859	129.5	5.050	291.5	0.282	46.1	0.573	...	...	...	...	...	...	...	...	...
1955	57.7	0.591	0.365	13.2	0.365	6.5	0.231	26.4	0.520	2.2	2.136	990.0	1.154	267.7	5.777	217.0	0.482	37.1	0.539	15.5	0.652	...	...	...	...	...	...	...
1960	78.2	0.541	0.549	30.5	0.549	6.6	0.470	24.3	0.530	4.0	2.050	1059.4	1.055	242.2	7.468	175.2	0.539	44.1	0.676	51.7	0.682	...	...	...	...	...	...	...
1965	56.0	0.459	0.995	44.3	0.995	9.6	0.438	24.1	0.548	11.4	4.342	1504.7	0.956	350.5	5.805	193.3	0.672	47.3	0.805	28.8	0.597	...	...	...	...	...	...	...
1970	50.0	0.460	0.907	54.0	0.907	8.4	0.512	32.5	0.535	11.7	5.612	1863.9	1.068	366.1	7.087	173.0	0.708	54.0	0.725	33.4	0.659	...	...	...	...	...	...	...
1971	49.2	0.480	0.912	54.3	0.912	7.4	0.486	32.5	0.532	12.9	6.140	2048.5	0.820	441.6	6.749	155.3	0.674	46.6	0.768	29.0	0.690	...	...	...	...	...	...	...
1972	44.6	0.529	0.942	54.8	0.942	6.9	0.507	32.8	0.576	15.9	5.497	2125.5	0.961	441.0	5.790	145.2	0.758	45.7	0.783	31.9	0.643	...	...	...	...	...	...	...
1973	46.7	0.555	0.837	50.8	0.837	7.1	0.507	33.2	0.548	16.9	6.692	2133.3	0.944	455.2	7.010	163.3	0.730	51.9	0.842	32.1	0.657	...	...	...	...	...	...	...
1974	44.9	0.517	0.817	54.9	0.817	6.9	0.594	36.7	0.589	18.1	6.818	2206.0	0.891	490.7	7.030	170.1	0.740	58.6	0.765	28.5	0.653	...	...	...	...	...	...	...
1975	55.3	0.651	1.398	65.4	1.398	6.6	0.580	54.8	0.661	20.8	6.535	2279.5	1.195	536.1	6.133	179.7	0.743	49.7	0.717	36.0	0.617	...	...	...	...	...	...	...
1976	62.8	0.654	1.052	76.8	1.052	4.0	0.600	60.6	0.673	33.8	3.457	2521.2	1.411	572.6	7.109	243.8	0.571	51.9	0.644	34.4	0.741	...	...	...	...	...	...	...
1977	62.8	0.664	1.379	76.2	1.379	4.4	0.659	62.7	0.737	38.1	3.593	2728.2	1.409	573.2	6.178	250.3	0.602	45.2	0.617	30.8	0.731	...	...	...	...	...	...	...
1978	63.1	0.651	1.406	84.5	1.406	4.2	0.738	47.9	0.789	35.1	3.500	2956.8	1.419	521.6	6.292	243.8	0.532	43.3	0.797	30.5	0.725	...	...	...	...	...	...	...
1979	62.6	0.671	1.213	95.2	1.213	4.5	0.844	53.8	0.914	35.2	4.080	3063.6	1.402	451.2	7.090	234.7	0.632	37.3	0.753	29.6	0.784	...	...	...	...	...	...	...
1980	105.4	0.711	1.231	91.0	1.231	6.8	0.872	55.1	0.906	34.9	4.558	3125.9	1.462	424.6	7.350	235.9	0.656	36.7	0.640	24.4	0.758	...	...	...	...	...	...	...
1981	108.8	0.707	1.236	112.8	1.236	7.1	0.588	38.7	0.765	37.4	4.551	3105.3	1.389	421.1	7.583	230.1	0.558	32.6	0.650	22.6	0.792	...	...	...	...	...	...	...
1982	110.3	0.725	1.263	125.6	1.263	10.8	0.486	56.5	0.860	38.3	4.812	3162.3	1.197	470.8	7.227	206.8	0.579	33.2	0.663	23.9	1.038	...	...	...	...	...	...	...
1983	112.9	0.750	1.006	142.7	1.006	12.0	0.495	48.5	0.738	30.6	4.199	3209.0	1.089	423.6	8.103	169.0	0.538	29.1	0.584	25.4	1.075	...	...	...	...	...	...	...
1984	78.5	0.701	0.833	144.6	0.833	11.8	0.418	46.1	0.917	77.3	4.527	3216.1	0.908	479.4	6.801	170.3	0.521	26.0	0.776	40.7	1.131	...	...	...	...	...	...	...
1985	81.0	0.803	0.917	145.8	0.917	14.9	0.402	50.2	0.900	30.3	4.396	3274.9	0.905	407.1	6.749	169.5	0.494	17.0	0.765	34.4	0.990	...	...	...	...	...	...	...
1986	86.5	0.760	0.923	148.2	0.923	15.8	0.405	49.9	0.879	31.7	4.402	3261.5	0.969	355.9	5.999	161.5	0.512	22.4	0.657	34.4	1.069	...	...	...	...	...	...	...
1987	88.0	0.752	0.900	149.7	0.900	17.0	0.390	54.6	0.861	79.1	4.554	3360.0	0.971	274.2	6.788	157.2	0.576	26.0	0.831	29.8	1.232	...	...	...	...	...	...	...

Table 5.2 - AGRICULTURAL AREA HARVESTED AND MEAN YIELD, BY KIND OF CROP, PHILIPPINES: 1950 to 1987 (continued)
(Area in thousand hectares; mean yield in metric tons per hectare)

Crop year	Rice		Rubber		Maguey		Other commercial crops ¹	
	Area	Mean yield	Area	Mean yield	Area	Mean yield	Area	Mean yield
1950	...	...	3.4	0.382	7.0	0.257	4.5	26.826
1955	2.9	0.586	5.0	0.400	4.0	0.050	5.5	43.768
1960	1.7	1.294	5.2	0.596	2.9	0.724	5.6	0.786
1965	3.2	1.718	17.0	0.347	2.7	0.326	3.1	0.545
1970	2.4	1.282	21.8	0.872	2.8	0.857	2.7	0.530
1971	2.4	1.282	23.0	0.909	2.7	0.889	2.4	0.667
1972	2.4	1.292	24.7	0.879	2.6	0.862	1.7	0.847
1973	2.4	1.333	26.1	0.885	2.6	0.862	1.4	0.786
1974	2.2	1.273	33.2	0.861	2.6	1.033	1.2	0.833
1975	1.4	1.000	45.4	1.007	2.5	0.720	1.5	5.400
1976	0.2	2.000	55.1	1.040	2.7	0.863	1.5	2.200
1977	0.2	2.000	58.5	0.995	2.6	1.038	1.7	0.765
1978	0.3	4.667	53.7	1.013	3.5	0.943	3.5	0.886
1979	0.3	4.667	53.7	1.095	3.8	1.026	2.5	1.480
1980	0.3	0.667	54.1	1.251	3.3	1.333	5.7	1.667
1981	0.5	1.000	53.9	1.336	3.3	1.091	10.7	0.991
1982	0.7	1.000	56.9	1.381	3.3	1.102	11.8	1.102
1983	0.6	1.000	57.7	1.210	3.2	1.063	10.7	0.841
1984	0.6	0.888	64.4	1.912	3.2	1.053	7.2	1.403
1985	0.7	1.000	71.8	2.036	3.1	1.064	6.4	1.203
1986	3.4	2.382	75.3	2.045	3.2	1.062	5.5	1.163
1987	10.7	2.785	75.7	1.866	3.2	1.062	9.5	1.340

1. Includes atis, avocado, camrilo, cashew, chico, guyabano, jackfruit, lanzones, pill and watermelon from 1950 to the present. Grapes were included starting 1975.
2. Includes calamansi, mandarin, orange and pineapple.
3. Includes camote, cassava, gabi pao (galiang), lugui and ubi.
4. Vegetables include cabbage, eggplant, garlic, pechay, radish and tomatoes from 1950 to the present. Ginger was included starting 1970.
5. Includes drybeans and mungo from 1950 to the present. Soybeans were included starting 1970.
6. Includes other fruits and vegetables.
7. Includes nuts used for making copra, desiccated coconut, home-made oil and as food nuts from 1950 to the present. Nuts used for commercial manufacturing were included starting 1970.
8. Includes sugarcane used for centrifugal sugar, muscovado, panocha and molasses.
9. Includes kapok from 1950 to the present. Starting 1975, castor beans and cotton (seeded) were added to this category.

Sources: National Economic and Development Authority (formerly NEC), The Raw Materials Resources Survey Bulletin Series No. 1 June 1953; Department of Agriculture (DA), Bureau of Agricultural Statistics.

Table 5.3b - AREA OF FARMS BY LAND USE, BY REGION AND BY PROVINCE: 1980

Region/ Province	Total Farm Area (Ha.)	Arable Land		Land Under Permanent Crops		Land Under Permanent Pastures		Land Covered with Forest Growth (Ha.)	All other Lands
		Under temporary crops (Ha.)	Lying Idle (Ha.)	Permanent Crops (Ha.)	Permanent Pastures (Ha.)	Permanent Pastures (Ha.)			
Philippines	9,725,150	4,365,193	838,551	3,488,978	590,035	336,476	165,918		
Metropolitan Manila Area (National Capital Region)	9,359	4,997	2,849	1,099	98	113	405		
Region 1	430,875	308,571	17,097	21,960	50,430	18,863	13,948		
Abra	28,542	21,323	354	1,512	3,551	1,288	505		
Benguet	40,777	17,477	6,717	3,147	8,159	2,382	2,884		
Ilocos Norte	49,082	34,800	1,059	912	7,739	2,651	1,911		
Ilocos Sur	46,476	36,837	704	1,456	3,275	2,555	1,649		
La Union	47,332	32,675	533	2,676	5,582	3,901	2,385		
St. Province	27,837	9,479	2,773	2,137	12,087	1,236	125		
Pangasinan	190,829	155,779	4,947	10,120	10,038	5,430	4,509		
Region 2	639,930	415,720	54,431	36,007	95,614	16,111	17,146		
Batanes	4,853	1,420	297	474	1,727	228	506		
Cagayan	152,843	127,536	7,508	7,362	12,390	3,589	4,461		
Iligan	49,176	16,994	1,246	2,136	27,718	291	791		
Isabela	241,986	182,280	27,639	6,918	13,741	4,149	7,258		
Kalinga-Apayao	81,866	34,939	7,522	13,800	17,586	6,733	1,146		
Nueva Vizcaya	70,053	35,770	4,075	4,460	21,005	2,006	2,737		
Quirino	28,454	15,781	6,147	2,856	1,347	1,076	247		
Region 3	501,924	444,471	16,574	13,769	17,076	3,259	6,823		
Bataan	21,316	13,142	1,358	4,567	4,557	851	43		
Bulacan	75,602	65,604	1,042	3,819	2,214	949	1,974		
Nueva Ecija	190,785	175,712	7,274	1,735	3,851	243	1,970		
Pampanga	80,820	75,704	2,404	1,008	86	146	472		
Tarlac	101,183	94,690	2,071	968	2,197	403	855		
Zambales	29,215	18,620	2,375	1,673	4,171	567	1,509		

