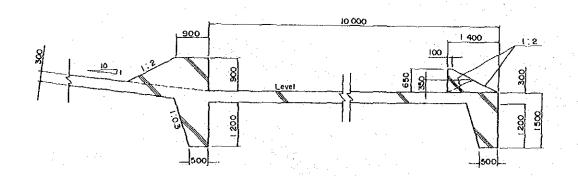
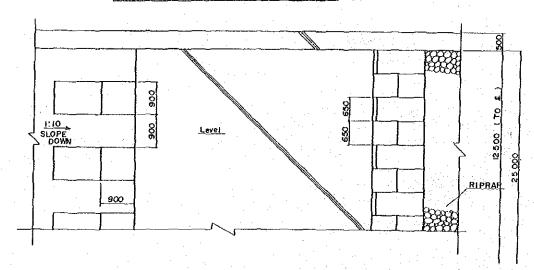


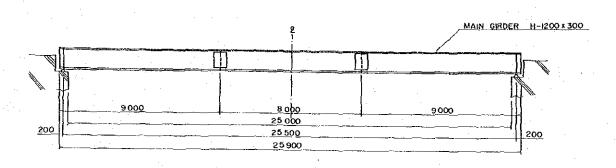
SECTION OF OGEE



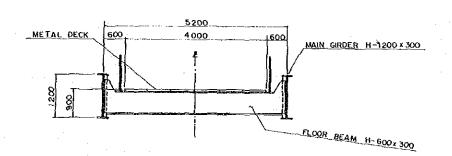
SECTION OF STILLING BASIN



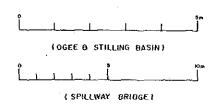
PLAN OF STILLING BASIN

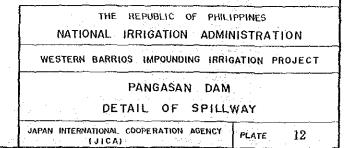


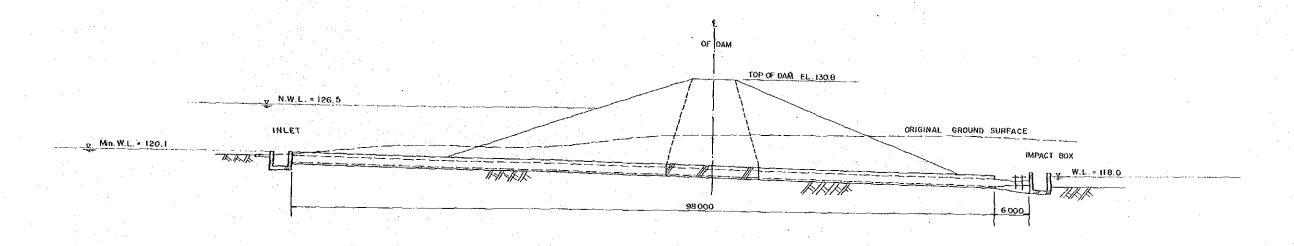
ELEVATION OF SPILLWAY BRIDGE



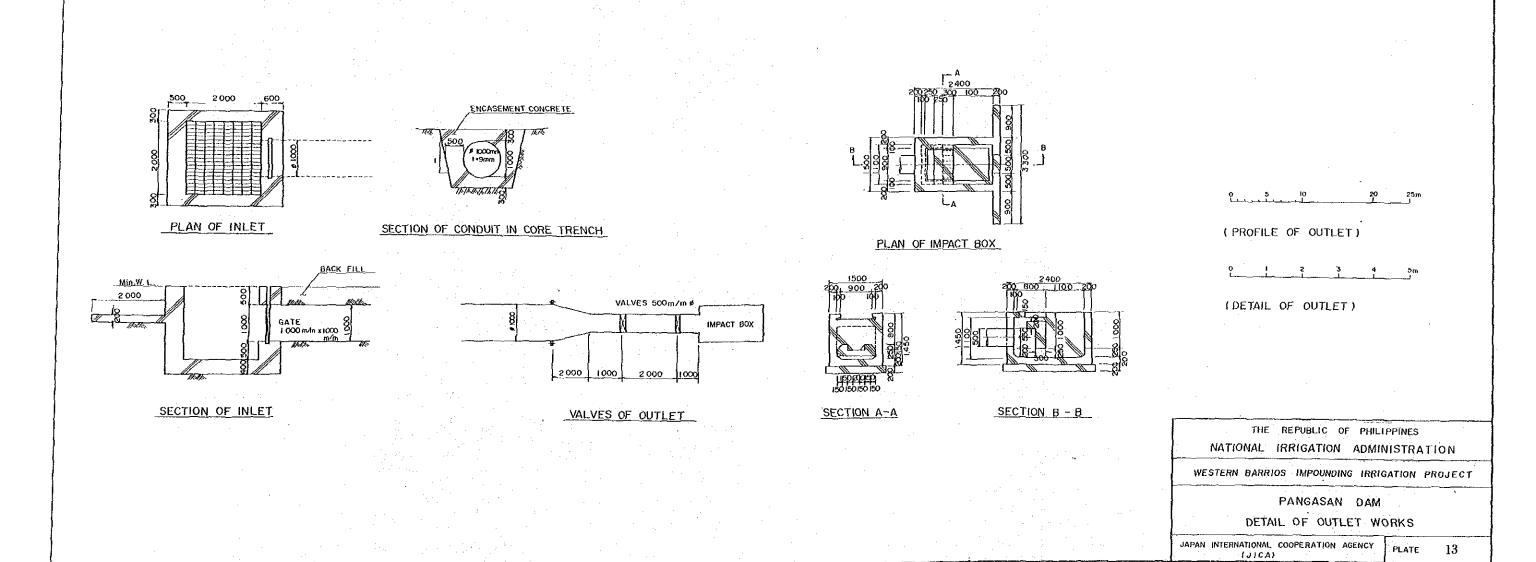
CROSS SECTION OF SPILLWAY BRIDGE

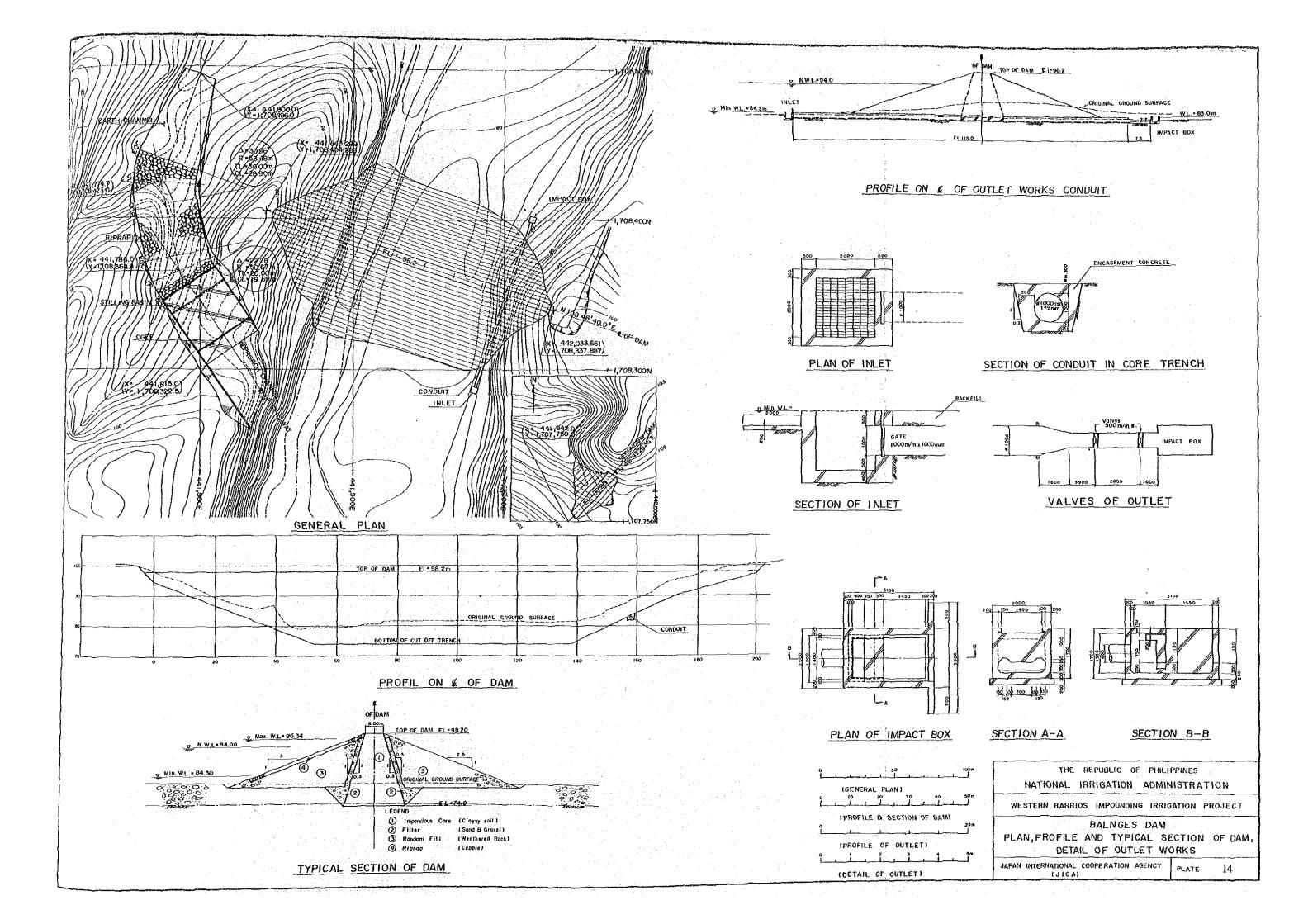


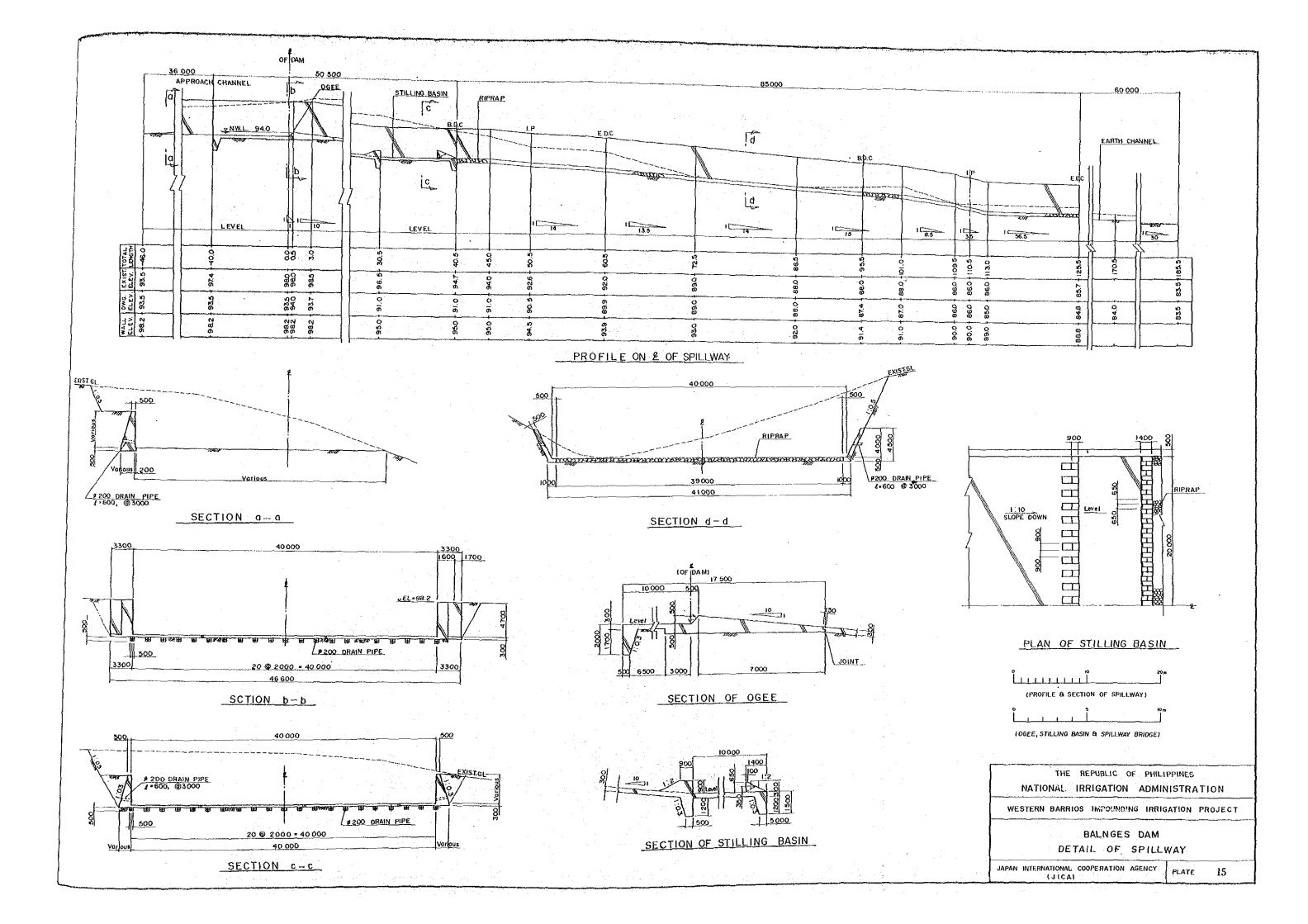




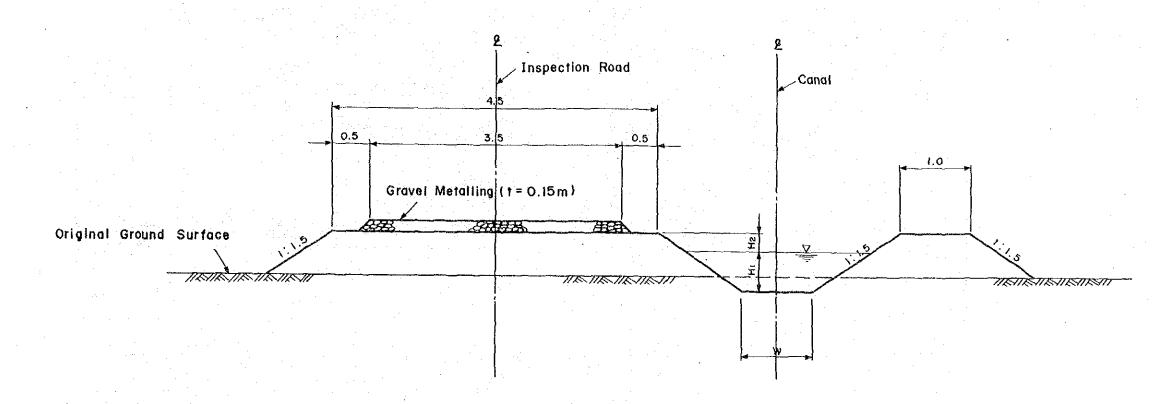
PROFILE ON & OF OUTLET WORKS CONDUIT







IRRIGATION CANAL & INSPECTION ROAD



DIMENSION

(Unit:m)

TYPE	DISCHARGE (m³/s)	GRADIENT	W	Hills	H2
0 C - 1	0.10	1 / 500	0. 30	0. 30	0. 30
0 C - 2	0, 15	1 / 700	0. 38	0. 38	0, 30
06 - 3	0, 20	1 / 800	0. 53	0. 41	0. 30
0 C - 4	0. 25	1 / 900	0. 66	0.44	0. 30
0 C - 5	0, 30	1/1000	0. 88	0. 44	0.30
0 C - 6	0.40	1/1000	0. 98	0. 49	0. 30
O C - 7	0. 50	1/1000	1.08	0. 54	0, 30
ос - в	0, 60	1/1000	1, 14	0. 57	0. 30
0 C - 9	0, 70	1 /1000	1. 22	0. 61	0.30

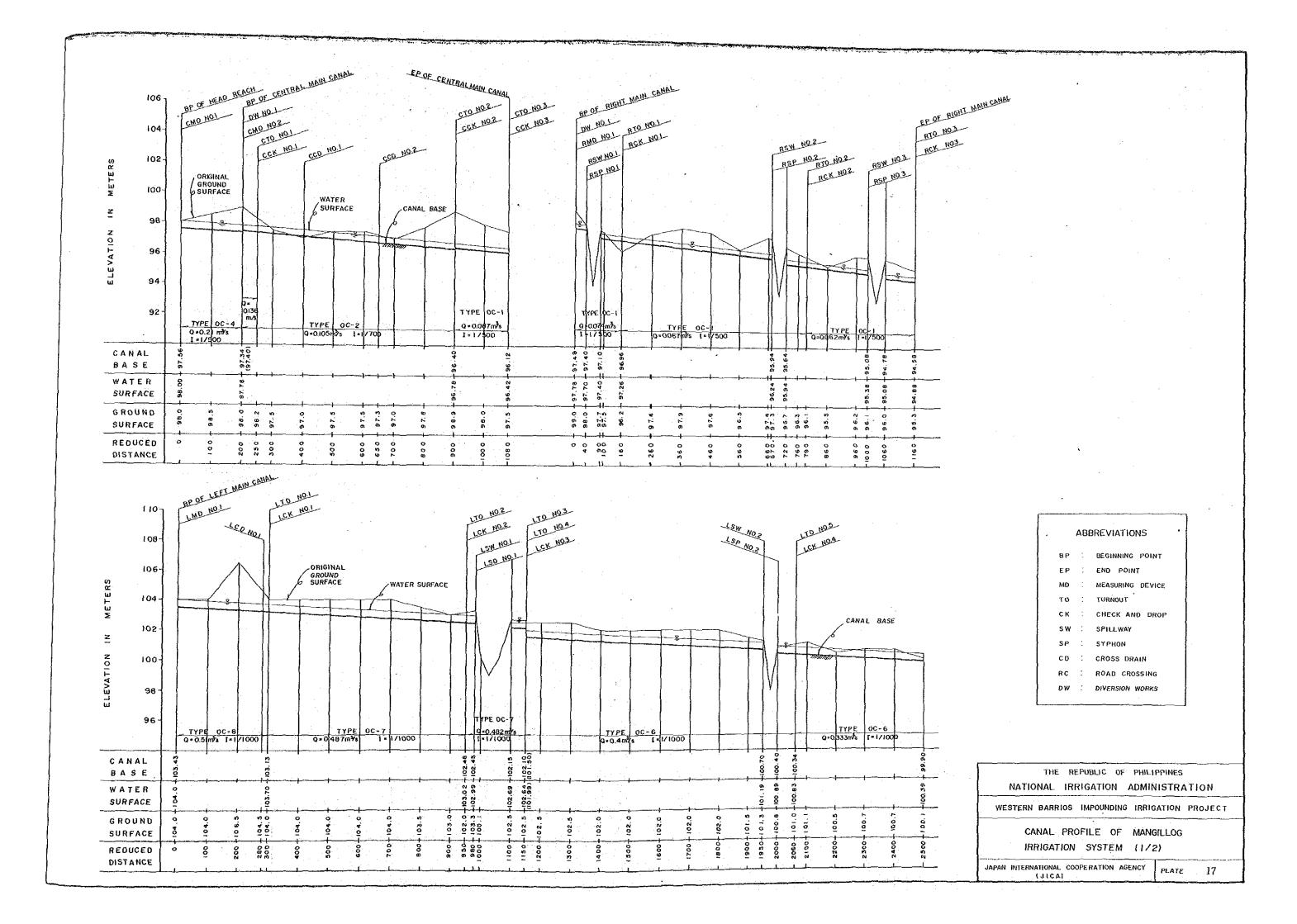
THE REPUBLIC OF PHILIPPINES NATIONAL IRRIGATION ADMINISTRATION

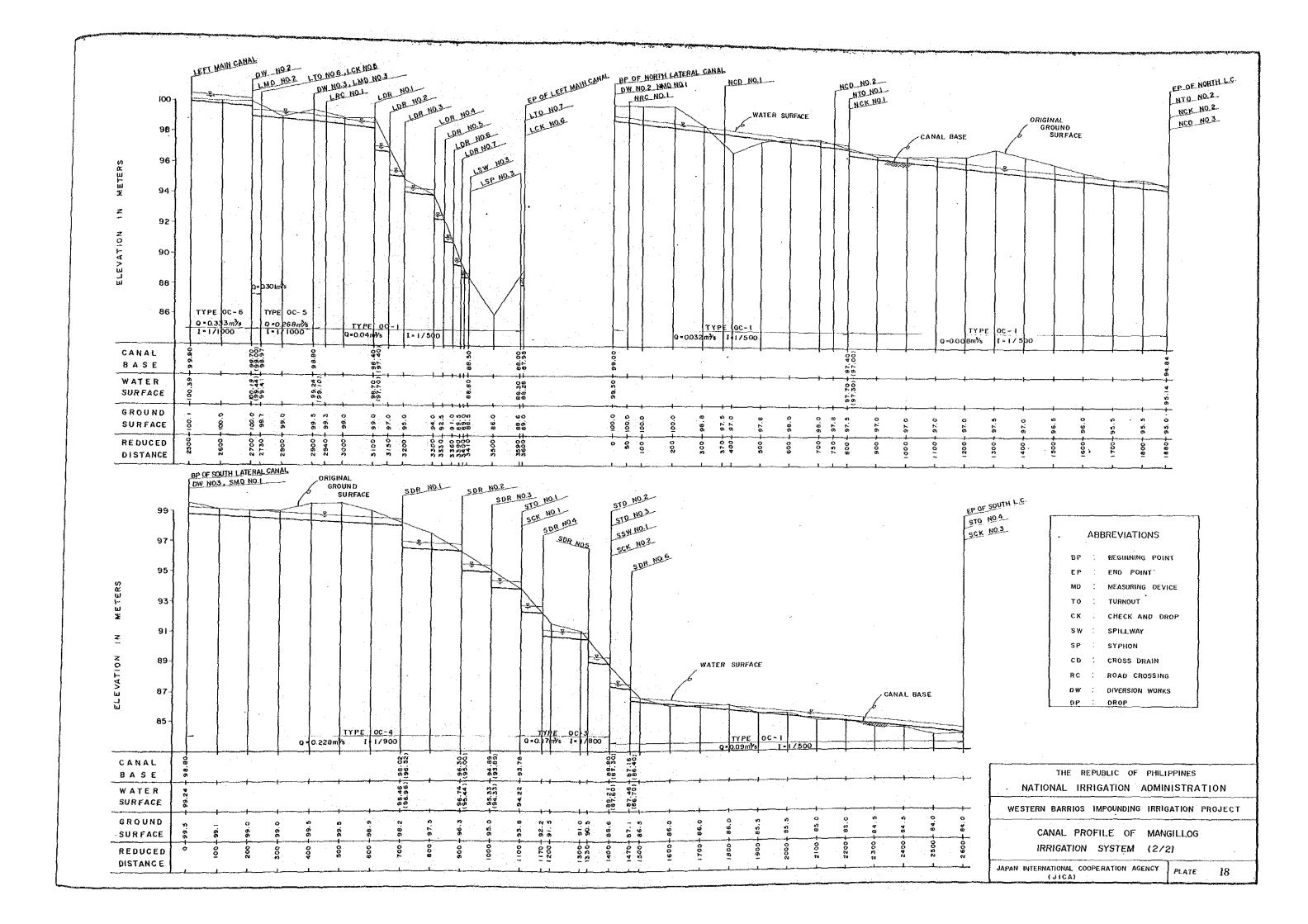
WESTERN BARRIOS IMPOUNDING IRRIGATION PROJECT

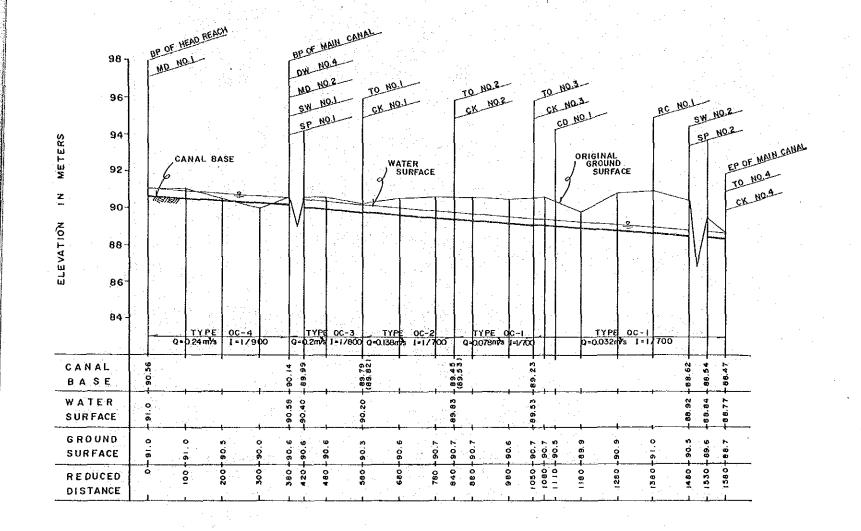
TYPICAL SECTION OF CANAL & INSPECTION ROAD

JAPAN INTERNATIONAL COOPERATION AGENCY
(JICA)

PLATE 16







ABBREVIATIONS

BP : BEGINNING POINT

EP : END POINT .

MD : MEASURING DEVICE

TURNOUT

CK : CHECK AND DROP

SW : SPILLWAY

SP : SYPHON

CROSS DRAIN

RC : ROAD CROSSING

DW : DIVERSION WORKS

THE REPUBLIC OF PHILIPPINES
NATIONAL IRRIGATION ADMINISTRATION

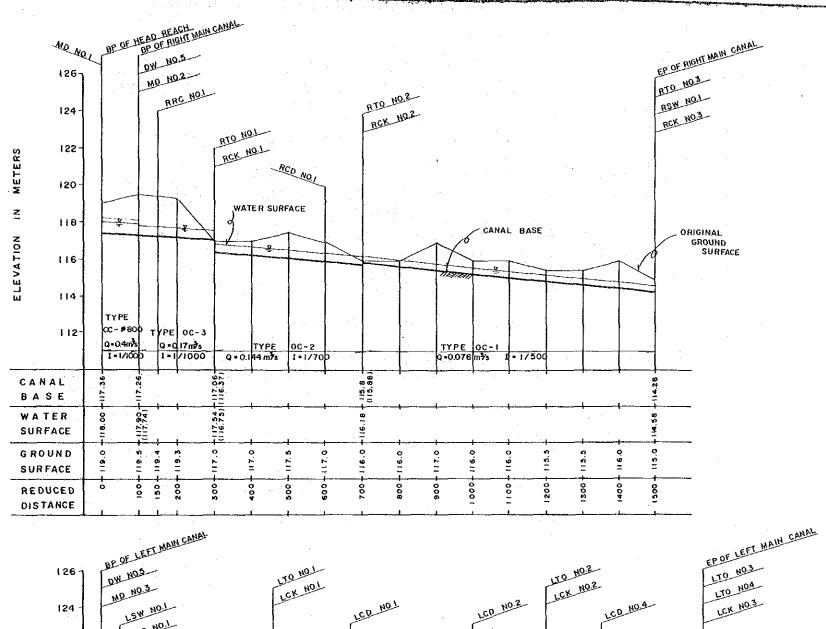
WESTERN BARRIOS IMPOUNDING IRRIGATION PROJECT

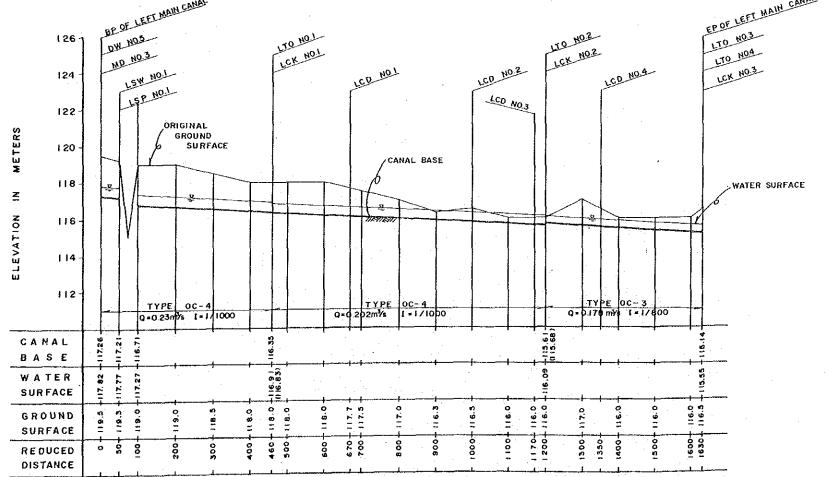
CANAL PROFILE OF BULELATIN
IRRIGATION SYSTEM (1/1)

JAPAN INTERNATIONAL COOPERATION AGENCY

(JICA)

PLATE 19





ABBREVIATIONS

BP : BEGINNING POINT
EP : END POINT ,
MD : MEASURING DEVICE
TO : TURNOUT
CK : CHECK AND DROP
SW : SPILLWAY
SP : SYPHON
CD : CROSS DRAIN
RC : ROAD CROSSING

: DIVERSION WORKS

THE REPUBLIC OF PHILIPPINES

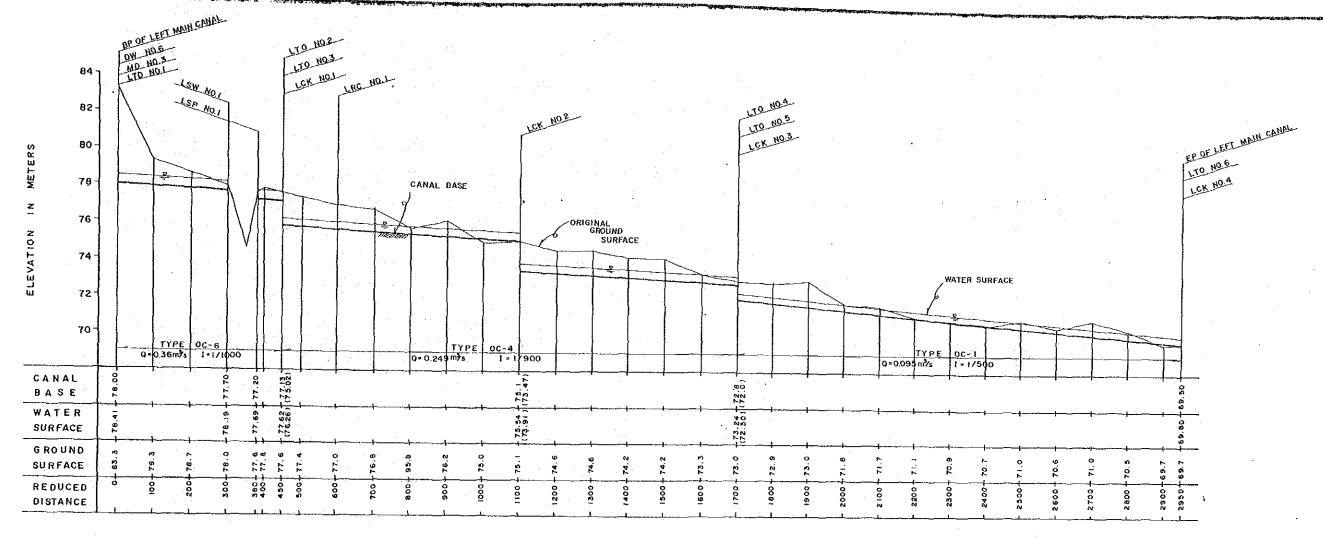
NATIONAL IRRIGATION ADMINISTRATION

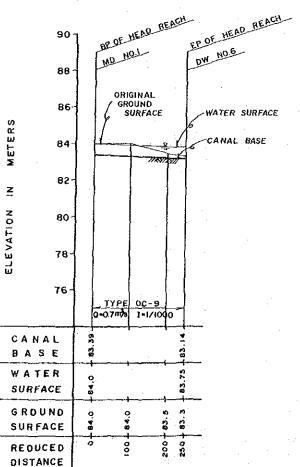
WESTERN BARRIOS IMPOUNDING IRRIGATION PROJECT

CANAL PROFILE OF PANGASAN IRRIGATION SYSTEM (1/1)

JAPAN INTERNATIONAL COOPERATION AGENCY
(JICA)

PLATE 20





ABBREVIATIONS

BP : BEGINNING POINT
EP : END POINT ,
MD : MEASURING DEVICE

TO ; TURNOUT

K : CHECK AND DROP

SW : SPILLWAY

SP : SYPHON

D : CROSS DRAIN
C : ROAD CROSSING

OW : DIVERSION WORKS

THE REPUBLIC OF PHILIPPINES
NATIONAL IRRIGATION ADMINISTRATION

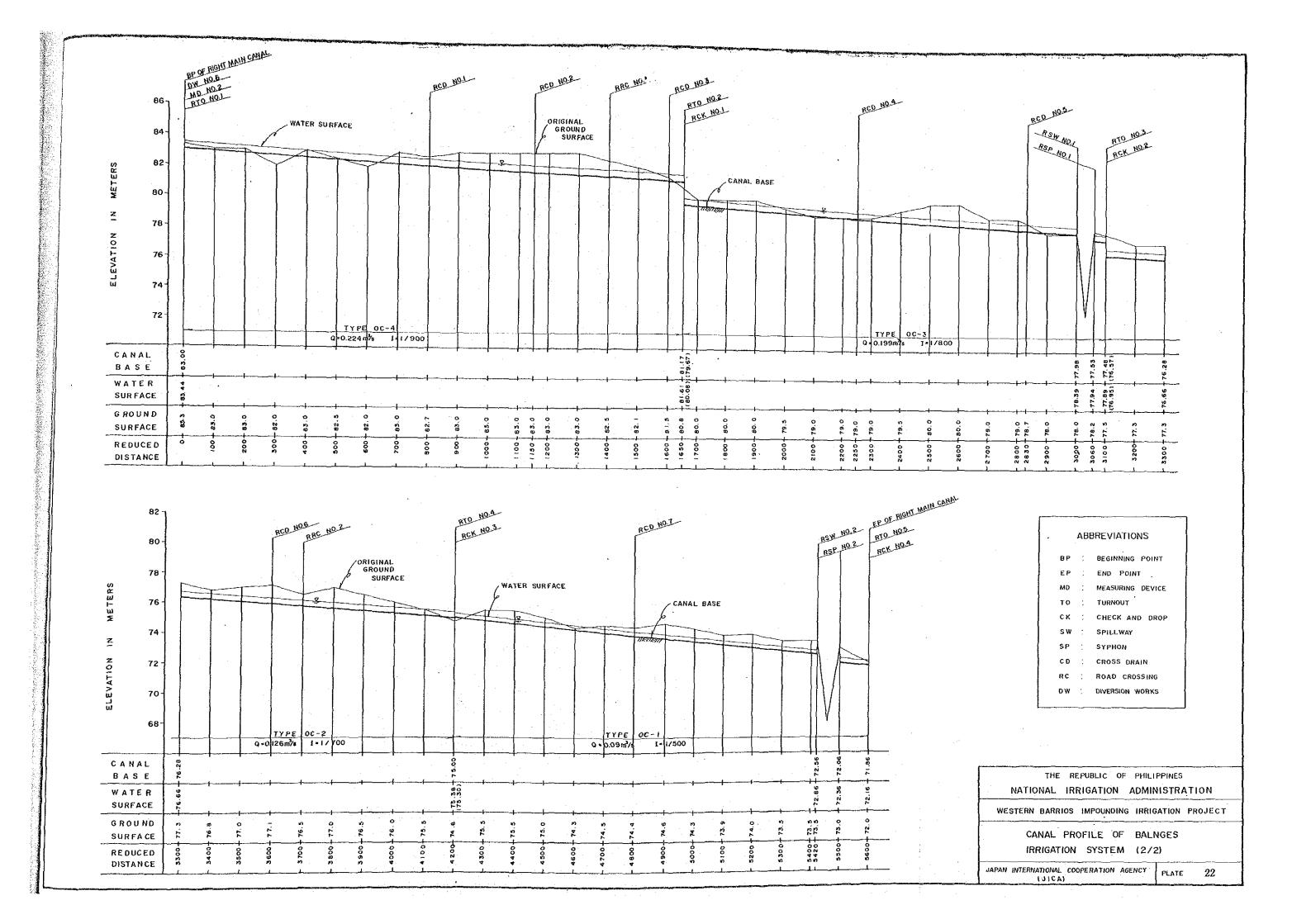
WESTERN BARRIOS IMPOUNDING IRRIGATION PROJECT

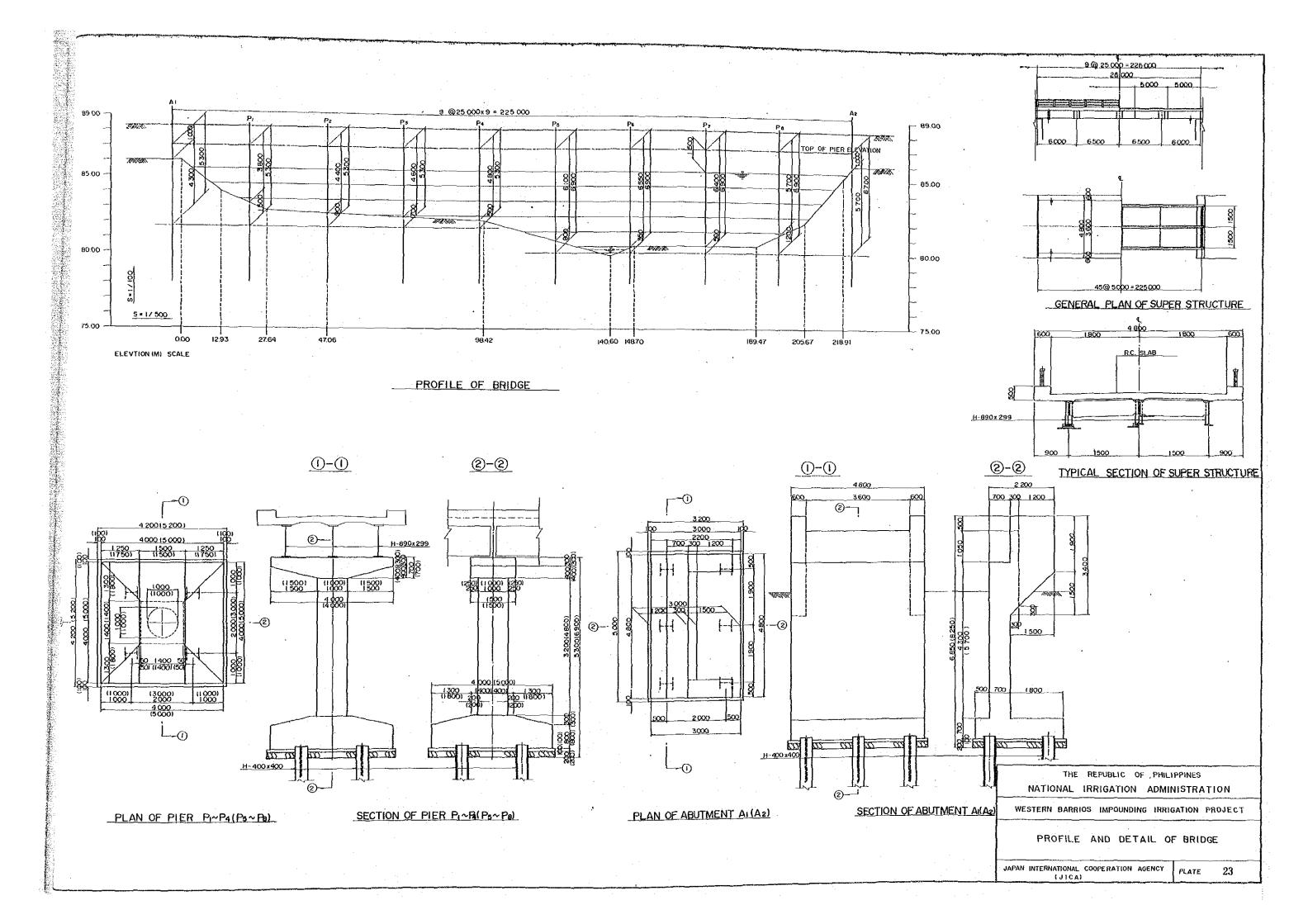
CANAL PROFILE OF BALNGES
IRRIGATION SYSTEM (1/2)

JAPAN INTERNATIONAL COOPERATION AGENCY

PLATE

ATE 21





Appendix

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1. Members of the Team

1-1 Basic Design Study

Name	Speciality	Organization
Mr. Yoshiro OKAMOTO	Team Leader	Senior Engineer, Agricultural
		Structure Improvement
		Bureau, Design Department
Mr.Tadanori SUZUKI	Project Coordination	First Basic Design Study
		Division, Grant Aid Planning
		& Survey Department, JICA
Mr. Masaharu MATSUI	Irrigation & Drainage	Nippon Giken Inc.
	Engineering	
Mr. Yoichi KISHI	Dam Engineering	Nippon Giken Inc.
Mr. Kenichiro KONDO	Civil Engineering	Nippon Giken Inc.
Mr. Akihiro IRIE	Geology & Soil Mechanics	Nippon Giken Inc.
Mr. Kenichi KUDO	Topographic Survey	Nippon Giken Inc.
	Supervision	
Mr. Shoji MIZUMA	Cost Estimates	Nippon Giken Inc.
1-2 Explanation for Dra	ft Final Report	
Name	Speciality	Organization
Mr. Yoshiro OKAMOTO	Team Leader	Senior Engineer, Agricultural
		Structure Improvement
		Bureau, Design Department
Mr. Masaharu MATSUI	Irrigation & Drainage	Nippon Giken Inc.
Manual Control of the	Engineering	: ***
Mr. Yoichi KISHI	Dam Engineering	Nippon Giken Inc.

Survey Schedule

No.	Date	day	Member	Work Schedule	Site
1	1/19	Thu.	5	Departure from Japan and arrival	OILC .
			• • •	at Manira, Courtesy call to Embassy	Manila
			:	of Japan and JICA	17111111111
2	20	Fri.	5	Courtesy call to NIA, Preliminary	
	٠. ٠.			discussion on Inception Report, Discussion	
	1111			on local contractors for topographic survey,	Manila
				geological and earth materials investigation	
3	21	Sat.	5	Preparations for field survey, Field	Site
				reconnaissance (1)	
4	22	Sun.	5	Data arrangement	
5	23	Mon.	5	Discussion meeting with NIA on field	
			. •	survey and data collection, Selection of	Manila
		*		local contractor	4
6	24	Tue.	5	Courtesy call and discussion meeting	
•				at Provincial Government of Tarlac and	Site
				NIA Provincial Office, Field	
:				reconnaissance (2)	
7	25	Wed.	5	Field reconnaissance (3)	Site
8	26	Thu.	2	Commencement of topographic survey,	Site
				geological and earth materials	
				investigation (1)	
4 1			3	Field survey and data collection on the	•
				Project, agriculture and farmer's	Site
		1 114	1 4 T	association, O&M, etc. (1)	•
9	27	Fri.	2	The same as the previous day (2)	Site
ı			3	- do - (2)	Site
10	28	Sat.	2	- do - (3)	Site
			3	-do - (3)	Site
11	29	Sun.	5	Data arrangement	
12	30	Mon.	2	Leader and coordinator leave Japan and	
				arrive at Philippines, Courtesy call	Manila
			10 g 100	to Enbassy of Japan and JICA	

	-					
٧o.	Date	day	Member	Work Schedule	Site	
			3	Meeting with leader and coordinator on	Manila	
	* .			progress of field survey		
			2	Topographic survey, geological and	Site	
				earth materials investigation (4)		
3	31	Tue.	5	Discussion meeting with NIA and	Manila	
				concerned agencies	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
			2	The same as the previous day (5)	Site	
4	2/1	Wed.	3 .,	Discussion meeting with NEDA and	Manila	
			· · · · · · · · · · · · · · · · · · ·	concerned agencies		
			2	The same as the previous day (6)	Site	
			2	Field survey and data collection on the		
		•		project, agriculture and farmer's	Site	4
				association, O&M, etc. (4)		
5	2	Thu.	3	Discussion meeting with the Provincial		
				Government of Tarlac, Project site	Site	
				inspection (1)		
			2	The same as the previous day (7)	Site	
		•	2	- do - (5)	Site	* .
6	3	Fri.	3	- do - (2)	Site	
			2	- do - (8)	Site	
			2	- do - (6)	Site	
7	4	Sat.	3	- do - (3)	Site	
			2	- do - (9)	Site	
			2	- do - (7)	Site	
8	5	Sun.	7	Inter-team meeting, Data arrangement	Manila	
9	6	Mon.	5	Inception Report discussion and meeting		
				with NIA and other agencies,	Manila	
				Data collection		•
			2	Topographic survey, geological and earth	Site	v.
				materials investigation (10)		
0	7	Tue.	5	Sign of minutes of Inception report meeting,	Manila	: 1
				Reporting to JICA and Embassy of Japan		
			2	The same as the previous day (11)	Site	$\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) \right)$
1	8	Wed.	2	Leader and coordinator leave for Japan		
			5	Data collection, Data arrangement	Manila	
			- 			
•				- 4		

	No.	Date	day	Member	Work Schedule	Site
	22	9	Thu.	3	Field survey and data collection on	Site
			*1 * *		agriculture and rural infrastructure, etc. (1)	
				2	The same as the previous day (12)	Site
	23	10	Fri.	3	- do - (2)	Site
				2	- do - (13)	Site
	24	11	Sat.	3.	- do - (3)	Site
				. 2	- do - (14)	Site
•	25	12	Sun.	5	Data arrangement	
	26	13	Mon.	3	Field survey and data collection on	Site
					agriculture and rural infrastructures, etc. (4)	· · · · · · · · · · · · · · · · · · ·
				2	Topographic survey, geological and earth	Site
	•				materials investigation (15)	
	27	14	Tue.	3	The same as the previous day (5)	Site
				2	- do - (16)	Site
	28	15	Wed.	3	- do - (6)	Site
				2	- do - (17)	Site
	29	16	Thu.	3 .	- do - (7)	Site
		-		2	- do - (18)	Site
	30	17	Fri.	3	- do - (8)	Site
			-	2	- do - (19)	Site
	31	18	Sat.	3	-do - (9)	Site
				2	- do - (20)	Site
	32	19	Sun.	5	Data arrangement	
	33	20	Mon.	5	Additional data collection, Data	Manila/Site
	•		٠.,		arrangement (1)	
	34	21	Tue.	5	- do - (2)	Manila/Site
	35	22	Wed.	5	Inter-team meeting	Manila/Site
	36	23	Thu.	5	Final discussion meeting with NIA	Manila
	37	24	Fri.	5	Data collection and arrangement, Reporting	Manila
					to Embassy of Japan and JICA	
	38	25	Sat.	5	Preparations on departure, collected data	Manila
		- •			arrangement	
	39	26	Sun.	5	Departure from Philippines and arrival at	
				. –	Japan	

2 - 2 Explanation for Draft Final Report

No.	Date	day	Member	Work Schedule	Site
1	5/15	Mon.	3	Departure from Japan and arrival	Manila
				at Manila, Courtesy call to Embassy	
				of Japan and JICA	
2	16	Tue.	3	Courtesy call to NIA,	Manila
•				Submitting Draft Final Report and	
	٠			explanation of the Report	4.4
3	17	Wed.	3	Discussion meeting with NIA	Manila
	1.21		:	on Draft Final Report	
4	18	Thu.	3	Discussion meeting with NIA	Manila
				on minutes of discussions,	
	•	••		Courtesy call to NEDA	
5	19	Fri.	3	Sign of minutes of discussions	Manila
		·		on Draft Final Report,	
•	: .			Reporting to JICA and	
		٠		Embassy of Japan	
6	20	Sat.	3	Departure from Philippines and	
			. :	arrival at Japan	

3. Member List of Persons Concerned

Embassy of Japan in Philippines

Naoki HAYASHIDA

First Secretary

JICA Philippine Office

Moriya MIYAMOTO Noriaki NIWA Resident Representative

Asst. Resident Representative

Yasuhiko MISHIMA

JICA Expert (NIA)

Yukinori OUCHI

JICA Expert (NIA)

Federico N. Alday, Jr.

Administrator, NIA

Eduardo G. Fernandez

Asst. Administrator

for Project Development and Implementation, NIA

Avelino S. Rivera

Manager, Project

Development Department, NIA

Guillermo N. Carague

Secretary, Department of Budget and Management

The Soft min Turnin Same

Mariano Un. Ocampo

Governor, Province of Tarlac

Jose G. Macapinlac

Mayor, Municipality of Tarlac

Charlie Gatdula

Administrator, Municipality of

Tarlac

Coordinating Committee

Eduardo G. Fernandez - Asst. Administrator, PDI

Avelino S. Rivera - Manager, PDD

Maximo A. Eclipse - Manager, DSD

Abelardo M. Demetillo - Manager, CMD

Jose M. Alcantara - Manager, CIDP

Rolando Bonrostro - Regional Manager, Region III

Technical Committee

Isidro R. Digal - Manager, Plan Formulation Div., PDD

Romeo F. Potenciano - Manager, Water Resources Utilization Div., PDD

Rogelio P. dela Rosa - Manager, Project Investigation Div., PDD

Epifanio C. Gacusan - Manager, Land Resources Utilization Div., PDD

Marcelino P. Manalo - Provincial Irrigation Engineer, Tarlac

Counterparts

Clemente T. Alanano - Project Coordinator

Erdolfo B. Domingo - Dam Engineering

Emerson M. Coloma - Irrigation and Drainage Engineering

Cesar B. Ramos - Civil Engineering

Othelo L. Razon - Hydrology

Romy Potenciano - Hydrology

Wilson Layaoen - Soil Mechanics/Geology

Danilo Fajardo - Soil Mechanics/Geology

Dominador D. Pascua - Agri-institution

Rogelio Aguinaldo - Agronomy

Fernando E. Antolin - Agro-Economy

Bernardo Valenzuela - Pedology

Herminigildo S. Tabares - Land & Soil

Abelardo Y. Armenia - Topo-Survey

Danilo Cortez - General Aspect

COORDINATING AGENCY

Honorio M. Encarnacion - Manager, Balog-Balog Multi-Purpose Project

- 4. Minutes of Meeting
 - 4-1 Basic Design Study

MINUTES OF MEETING

ON THE PROJECT

FOR WESTERN BARRIOS IMPOUNDING TRREGATION

In response to a request from the Government of the Republic of the Philippines, the Government of Jupan 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

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

Administrator, NIA

Atty. Mariano Un. Ocampo Governor, Province of Tarlac

MAJOR POINTS OF UNDERSTANDING

OBJECTIVE

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.

N Q

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.

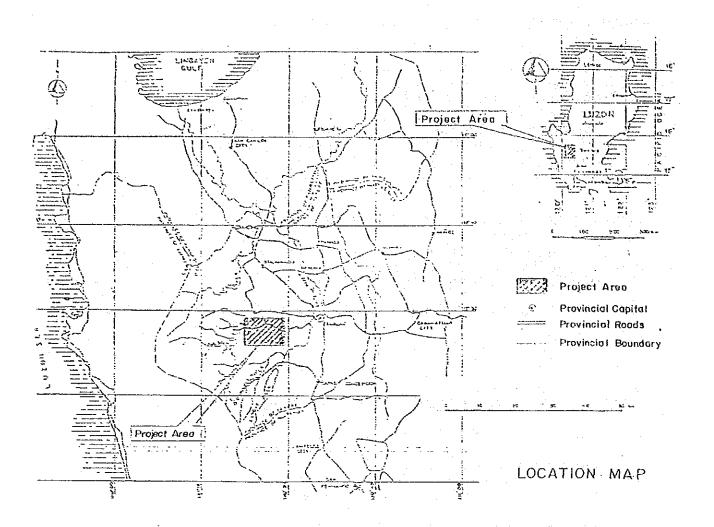
UNDERTAKING OF THE GOVERNMENT OF JAPAN

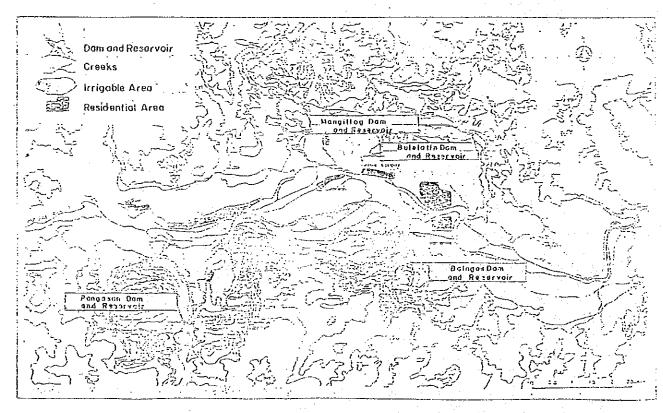
6. The team will convey to the Government of Japan the request of the Government of the Republic of the Philippines that the former shall take necessary measures to implement the Project.

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.







GENERAL PLAN OF THE PROJECT

A.

净

VUMEX 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.



4-2 Explanation for Draft Final Report

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

国本芳郎

YOSHIRO OKAMOTO Leader of Japanese Basic Design Study Team, JICA Atty FEDERICO N. ALDAY, JR.
Administrator, NIA

MAJOR POINTS OF UNDERSTANDING

- 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 programe 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.

国本条部

Astro la

5. Country Data

STATE TO TAILSTIEF OF MANAGE STATISTICAL STRIKE

Statistical series Reference period						SU AGRESIO CONTRACTOR SE	"Fermal terror fertaltation dorse to Adamsto	FAIL TOTITOR F.	Yang day		
	***************************************								, marrano		
	Latest data	~	Compared to	7			Latest data	ata	Compared to	ţ	
	ference period	Value	Reference period	Value	Percent change	Statistical series	Reference period	Falue Falue	Reference	Falue	Percent
Part 1 General Statistics	-							V			
Chapter 1. Population and Housing			·	٠		 f. Total City population (1,000 persons) 	Eay 1, 1980	10,181.0	Ear 1, 1975	8,725.0	16.7
Statistics		: .			-	Ten most populous cities	: ,	5.730.0		4,886.9	17.8
Downlatton (1 196) nonneanol			100 t			Manila		1.630.0	. •	1,479.0	10 2
retion (1) out persons) nay 1, 1300		40,020,0	may 1, 1875	42,071.0	. F.	Queron	•	1,166.0		927.0	21.8
2. Ser distribution						Davao		610.0		685.0	£2 :
Both sexes (1,000 persons) Hay 1, 1980	-	48,098.0	May 1, 1975	42.071.0	. C.	Cebu		0.064		413.0	9 c
				50.6	•	Zaphanga Zaphanga		344 0		284.0	n 60
Female (percent)		49.8		49.4	*	Passy		288.0		255.0	12.9
3 Regions Giatribution					. •	Bacolod		262.0	,	223.0	17.5
Philippines (1,000 persons) May 1, 1980		18,098.0	May 1, 1975	42,071.0	K.3	liolio Cagayan de Oro		245.0		227.0 165.0	37.6
Metropolitar Manila deca				N.,			:				
(National Capital Region)		5,926.0		4.970.0	19.2	Chapter Z. Income and Prices	•				1.
						1. Average family income (pesos)		-	٠		
Region 1	•	3,541.0		3,269.0	α. ω.				-	:	
Region 2		2,216.0		1,933.0	14.6	Philippines	1985	31,052	1971	3,726	733.4
Keglon J		4,803.0		4,210.0	14.1					:	
Keglon 4		6,118.0		5,214.0	17.3	Orban		46,127		5,867	686.2
kegion o	,	3,477.0		3,194.0	60 60	Metropolitan Manila Area		57,193		7, 785	634.7
Kegion 5	,	4,526.0		4,146.0	5				.:	• :	
sesion 7		3,787.0		3,387.0	11.8	Rural		21,875		2,818	676.3
xegion 3		2,800.0		2,600.9	7.7			-			
Region 9		2,528.0		2,048.0	23.4	2. Consumer price index for all					
Hegion 10		2,758.0	•	2 314.0	19.2	items (1978=100)	June 1988		June 1987		
Region 12		2,271.0	•	2,070.0	9.7	Philippines		400.6	* * * * * * * * * * * * * * * * * * *	367.5	<u>ප</u>
				٠.	•	•			*:		

SUMMEN OF MAJOR STATISTICAL SERIES (continued)

	Latest data	Latest data	Compared	ន្ធ			Latest data	lata	Compared to	5	: :
Statistical actics	Reference period	Falue	Reference period	Value	Percent	Statistical series	Reference	Faine	Reference	9D]#3	Percent change
Metropolitan Manila Area	;	. ,			}	3. Expenditures on gross domestic					
(Mational Capital Region)		437.6		394.5	10.9	product at 1972 prices			•	44.002	
Areas uncaide netropolitan Manila		353.5		362.3	В	(million pecos)	1381	895. 685.	1986	31,281	
						Personal consumption	-	•		• .	
Region 1		380.5		369.2	O 7	expenditures		70,260		66,597.	กร กรั
Region 3	-	420.4		388.	r 2	Geograf Apywas		8, 774		8 8	4.2
Region 4		379.8		347.2		Gross domestic canital			•	5	:
Region 5		401.1	-	359.6	п.5	formation		12,190	. ,	10,181	19.1
Region 6		465.2		377.0	ر در د						. ;
Region 4		375.4		343 6	zi e: ~ ez	Construction		65 C		2,383	2.51
Segion o		365.9		345.9	. 80	Increase in stocks		55.		124	346.8
Region 10		332.8		369.3	6.2						:
Region 11		102 2		364.2	10.4	Sxports		23,299		23,560	(I-I)
Megatod 12		י פיי		0.000	>	(regg) TMACLES		702.17		6	3
Chapter 3. Economic Accounts	•	•			-	4. Per capita national income	-				
					•	(besos)	1987		1986	•	
Gross national product	1987		1086	•		· · · · · · · · · · · · · · · · · · ·		0 736		2853	<u> </u>
At current prices		706,251		619,815	13.9	at 1972 prices		1,307		187,	2.0
At 1972 prices	٠.	94,680	•	89,611	5,1		,	:	•		
The desired of the second of t					•	5. Per capita personal	1007	•	3		•
dross.domestr. product by industrial origin (million beace	•		٠			consombrion expensionie (benes)	1067		0007		•
at 1972 prices)	1981	95,948	1986	91,287	5.1	At current prices		9,035		8,481	7.7
pripare fishers & present		27 331		27 233	7 0	Ve TRICE		1,463		3	2
Mining and quarrying		1,521	•	1.558	(2.4)	Part II. Recommic Statistics					
Sassfacturing		23,253	•	21,717							-
Construction		3.954	1. 2. 3.	88 8	11.5	Chapter 4, Ratural Resources			:		
Michaelor, bad, gan mader	1	1,500	-	1,123	- n	Clareiffed land area			-		
Storage	•	5,251		5,105	2.3	(1,000 bectares)	1987		1985		*
Cosserce		15,153	-	14,33	 			•		•	
Finance and Housing		5, 73.		4,831	1.63	Alterable and disposable	•	14,108,087		13,852,338	60 K
בנוואקרם מכני וכנים											

SUMMER OF MAJOR STATISTICAL STRIES (continued)

SURMARY OF MAJOR STATISTICAL STRIES (continued)

1867 2,131.0 1868 2,085.5 5.3 Commercial Grape Spiritini Series Parieta Pariet	Latest data Co	Latest data	data	Compared to	apared to			Lates	Latest data	Compared to	ed to	
State Stat	Statistical series	Reference		Reference	Value	Percent change	Statistical scries	Reference Period	a. Palue	Reference period		Percent change
Same contained by the	Fish production (1,000 m.t.)	1987	2,213.0	1986	2,089.5	5.9	Comercial Grops		5,455.1		5,608.3	(2.1)
1,060.9 10,724.0 (90.11) Tobacro 100.7	Comercial flabing Aguaculture		591.2		546.2 470.9	6.2 19.1	Coccant Sugarcane		3,262.5		3,162.4	3.2
Public of fishing production 1867 37.241.9 1886 37.321.5 (0.2) 2. Public of fishing production 1867 37.241.9 1886 37.321.5 (0.2) 2. Public of production of apticultural crops (sillion ?) Ctop press 25.123.5 Ctop press Ctop press 25.123.5 Ctop press 25.12	Municipal fishing and sustenance flabing		1,060.9		10,724.0	(90.1)	Abaca and other crops Tobacco Rubber		136.4 136.7		2 38 35 5 5 5	5. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
1,207.5 1,251.5 6.6 Pairy (Sough Sice) 15,177.7 1986 10,572.2 4.4 Pood crops 15,177.7 1986 10,572.2 4.4 Pood crops 12,106.5 10,572.2 12,106.5 10,572.2 12,106.5 10,572.2 12,106.5 10,572.2 12,106.5 10,572.2	. Value of fishing production (million peace)	1987	37,241.9	1988	37,331.5	(6.2)		Cros	, c		¥ 561 58	
1987 1987 1986 17.251.5 (6.6) Palsy (Sough Rice) 26.302.9 25.353.4 1987 1986 1986 1986 1986 1987 1986 1987 1986 1987 1988 1987 1988 1988 1987 1988	Commercial fishing Aquaculture		9,820.7		9,247.9	6. 4. 5. 4.	\$000 crops aroly (mixing	1987	73,277.7	1988	70,978.1	3.2
## 1987 4,142 4,142 93, 434 20.6 Other food crops 1,578.5 1,588.7 1	Municipal fishing and sustenance fishing	ž	16,107.5		17;251.5	(8.8)	Palay (Bough Sice)		26,302.9		26,353.4	(0.2)
4,142 3,434 20.6 Commercial crops Crop year 14,151.7 (1.3) Commercial crops Crop year 14,151.7 (1.3) Commercial crops 1986 4,495.1 (1.3) 2.7 Commercial crops 1,300.7 (1.3) 4,150.2 (1.50.2) (1.	Production of logs, lumber, plywood and veneer (1,000 m.)	1987		1986			Rooterops Fruits and regetables Other food cross		5,276.2 27,712.6 1 578.6		5,172.5	6.5 6.5 7.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8
1304 121 151.9 150.9 150.2	Loga Lunber		4,142		3,434	20.6 (1.3)	Consercial crops.	Crop year	9,305.3	Crop year	14,151.7	40.7
Grop year Crop year 1,588.8 (2.0) 3 Wunber of registered 1,005.8 731.1 731.1 731.1 731.1 731.1 731.1 731.1 731.1 731.1 732.5 3 64.3 62.5 3 64.3 632.5 3 64.3 632.1	Plywood Veneer		504		424 73	2.5.	Coconat	000	8,231.8	9951	4,498.1	83.1
Crop year 1987 30,953.6 1986 31,588.8 (2.0) 3. Eunher of registered 1987 17,115 1988 1988 1988 1988 1988 1988 1988 1	Chapter 5. Agriculture		•				Aboca and other crops Tobacca Rubber	,	1,300.7 1,005.8 804.3		731.1	31.9
25,508.5 25,980.5 (1.8) 4. Membership of registerd 8,589.9 9,246.8 (7.6) Samabang Mayon 1987 727,029 1985 727,029 4,278.1 4,080.7 4.6 Samabang Mayon 1987 727,029 1985 727,029 1,080 octobe 1985 1985 1985 1985 1985 1985 1985	. Production of agricultural crop (1,000 m.t.)	Crop year 1987		Grop year 1986	31,588.8	(2.0)	3. Mumber of registered Samabang Mayon	1987	17,115	50 857	17,115	0
8,533.9 9,246.8 (7.6) Samabang Wayon 1387 727,029 1966 727,029 4,273.1 4,6 3,714.4 1.5 Chapter 6. Metablishment 8,561.1 8,588.9 (0.1) Characteristics; industrial Sectors 360.2 339.7 0.1 Limber of newly registered corporations and partnerships 1387 127,029 1966	Food crops		25,508.5		25,980.5	(1.8)	4. Hemberchip of registerd					
3.759.2 3,714.4 1.5 Chapter 6. Matablishment 8,561.1 8,568.9 (0.1) Characteristics, Industrial Sectors 350.2 359.7 0.1 Characteristics industrial Sectors corporations and partnerships 1987	Palay (Eough Bice)		8,539.9		9,246.8	(7.6)	Samabang Mayon	1987	727,029	1986	727,029	0.0
2. Number of newly registered 1987 corporations and partnerships 1987	Rooterops Fruits and Vegetables		3,769.2 8,561.1 360.2		3,714.4 8,568.9 359.7	(0.1) (0.1) (0.1)	Chapter 6. Watablichment Characteriatics:Industrial Sect.	0.10				•
	24714 17740					-	1. Musher of newly registered corporations and partnerships	1381	· .	1986		

21.3

5,003 938

1,055

Corporations Partnerships

SUBBARY OF MAJOR STATISTICAL STRIRS (continued)

SUKKART OF MAJOR STAIISTICAL SERIES (continued)

### Reference Falue Reference Walue Reference Fer Period P		. Latest data	data	Cospared	9.			Latest data	ata	Compared to	t to	
1967 1968 1968 1969	Statistical series	Reference period	Falue	Reference period	Yalue	Percent	Statistical series	Reference Period	Palue	Reference period	Yalue	Percert change
1,998.5 3,024.6 63.3 Precions metal 1,998.5 3,924.6 63.3 Precions metal 1,603.8 5,924.6 37.5 Gate miscrais 1,603.8 1,986 3,146.3 1,55.7 Gate miscrais 1,502.2 1,986 3,146.3 1,55.7 Gate miscrais 1,502.2 1,502.2 1,503.6 1,503.7 Gate miscrais 1,502.8 1,525.5 1,77 Gate miscrais 1,503.8 1,503.8 1,503.8 1,503.8 1,503.8 1,503.8 1,503.8 1,503.8 1,503.8 1,503.8 1,503.8 1,503.8 1,503.8 1,503.8 1,503.8 1,503.8 1,504.8 1,503.8 1,503.8 1,504.8 1,503.8 1,503.8 1,504.8 1,503.8 1,503.8 1,504.8 1,503.8 1,503.8 1,504.8 1,503.8 1,503.8 1,504.8 1,503.8 1,503.8 1,504.8 1,503.8 1,503.8 1,504.8 1,503.8 1,503.8 1,504.8 1,503.8 1,503.8 1,504.8 1,503.8 1,504.8 1,503.8 1,504.8 1,503.8 1,504.8 1,503.8 1,504.8 1,503.8 1,504.8 1,503.8 1,504.8 1,503.8 1,504.8 1,503.8 1,504.8 1,503.8 1,504.8 1,503.8 1,504.8 1,504.8 1,504.	Capital increases & withdrawals of corporations & partnerships (willion besos)	1987		\$ 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			5. Falue of whith production (willian pesos)	1986		1985		
6. Value of private building peaces 1865.7 1855.7 1	Increases Withdrawals Wet effect	· .	4,938.5 1,603.8 3,334.7		3,024.8 598.8 2,426.0	63.3 167.8 37.5	Precious metal Bass metals Won-metallics Other winerais		8,570.1 5,884.3 2,768.6 2,814.4	,	6,274.1 7,544.6 2,946.0 4,221.9	36.6 (22.0) (6.0) (33.3)
1522.5 15.2.5 15.0 3,427.3 15.32.5 115.0 3,427.3 15.33.6 115.0 15.30.6 115.0 15.30.6 115.0 15.30.6 10.1 15.30.6 10.1 15.30.6 10.1 15.30.7 14.00.3 15.30.7 14.00.3 15.30.7 14.00.3 15.30.7 14.00.3 15.30.7 15.30.6 15.30.7 15.30.7 15.30.7 15.30.7 15.30.7 15.30.7 15.30.7 15.30.7 15.30.7 15.30.7 15.30.7 15.30.7 15.30.7 15.30.7 15.30.7 15.30.7 15.30.7 15	Amount of investments approved under P.D. 1789 and P.D. 218 (million person)	9861	988.9	2. 2. 2.	3 126 3	165.7	6. Value of private building construction (willion peacs)	1987	11,124.0	1986	6,531,0	70.
1986 247,461 1985 224,786 10.1 Residential buildings 59,861 46,188 29.7 Residential buildings 15,877 14,083 12.7 Rest of the Regions 11,584 10,309 12.4 Ros-residential buildings 11,584 5,018 5,435 14.8 Retropolitan Manila Area 1,469 5,435 14.8 Retropolitan Manila Area 1,469 5,435 14.8 Retropolitan Manila Area 1,469 2,435 14.8 Retropolitan Manila Area 1,469 1,180 24.5 20.3 Retropolitan Manila Area 1,469 2,435 18.2 20.3 Retropolitan Manila Area 1,469 2,437 2,633 18.2 Retropolitan Manila Area 1,049 3,477 20.9 Retropolitan Manila Area 1,049 3,789 24.6 28.4 Restons 1,553 1,553 1,581 2.5 1,553 1,553 1,553 2.5 1,553 1,553 1,553 3.5 1,553 1,553 1,553 3.5 1,553 1,553 3.5 1,553 1,553 3.5 1,553 1,553 3.5 1,553 1,553 3.5 1,553 1,553 3.5 1,553 1,553 3.5 1,553 1,553 3.5 1,553 1,553 3.5 1,553 1,553 3.5 1,553 1,553 3.5 1,553 1,553 3.5 1,553 1,553 3.5 1,553 1,553 3.5 1,553 1,553 3.5 1,553 1,553 3.5 1,554 3.5 1,555 3.5	Local Foreign		4,532.8		1,552.5	217.7	Metropolitan Hanila åren (National Capital Region)	·	6,110.0		3,115.0	95.1
59.861 46,169 29.7 (Rational Capital Region) 15,877 14,083 12.7 (Rational Capital Region) 13,995 13,189 6.3 Rest of the Regions 11,584 10,309 12.4 Ron-residential buildings 6,889 5,018 37.5 Metropolitan Kenila Area 1,469 5,018 37.5 Metropolitan Kenila Area 1,469 24.5 (National Capital Region) 1,581 2,427 44.7 Rest of the Regions 2,425 20.3 Rest of the Regions 27,086 22,581 18.2 Additional Capital Region 1,048 46,472 (20.9) Retropolitan Kanila Area 38,348 46,472 (20.9) Retropolitan Kanila Area 1,045 19,77 10.8 Retropolitan Kanila Area 38,348 46,472 (20.9) Retropolitan Kanila Area 1,545 16,60 28.4 Regions 1,545 16,60 28.4 Regions 1,553 1,008 30.5 6.60 28.4	Value of manufacturing output (million penos)	1986	247,461	1985	221,786	. 10.1	Rest of the Regions Residential buildings		5,014.0		3,416.0	45.8 75.8
13,995 13,100 12.1 13,995 13,169 6.3 Rest of the Regions 11,995 10.3 12.4 6.899 5.018 37.5 Retropolitan Manila Area 1,469 1.180 24.5 (Rational Capital Regions 1,469 1.180 24.5 (Rational Capital Regions 2,427 4.7 Rest of the Regions 1,95 1.82 20.3 Rest of the Regions 2,561 20.0 Retropolitan Manila Area 46,472 (20.9) Retropolitan Manila Area 46,472 (20.9) Retropolitan Manila Area 38,348 46,472 (20.9) Retropolitan Manila Area 1,048 1,048 1,048 1,653 1,691 (4.6) Regions 3,595 1,691 (4.6) 29.4 Rest of the Regions 3,595 1,691 (4.6) 20.5 Retropolitan Manila Area 1,553 1,691 (4.6) 20.5 Retropolitan Manila Area 3,595 1,691 (4.6) 20.5 Retropolitan Manila	Food		59,861		46,169	250-1	Metropolitan Manila Area (Mational Capital Region)	•	3,062.0		1,581.0	93.7
6.889 6.241 5.036 5.435 14.8 Netropolitan banildings 6.241 1.469 1.180 24.5 Netropolitan banild atea 1.469 1.469 1.180 24.5 (National Capital Region) 7.851 5.427 44.7 Rest of the Regions 1.85 2.427 44.7 Rest of the Regions 2.425 20.3 Rest of the Regions 2.425 2.551 20.0 Retropolitan Banila Area 48.472 (20.9) Retropolitan Banila Area 48.472 (20.9) Retropolitan Banila Area 1.048 1.048 1.048 (4.6) Regions 3.555 1.691 (8.2) Rest of the Regions 3.555	Total Control	-	13,995		13,169	. e. e	Lest of the Legions		2,771.0		1,736.0	53.6
1,451 1,453 1,451 1,453 1,451 2,427 4,7 2,917 2,425 20,3 18.2 1,83 1,83 2,425 20,3 18.2 2,425 20,3 18.2 2,425 20,3 18.2 2,425 20,3 2,425 20,3 2,425 20,3 2,425 20,3 2,425 20,3 2,425 20,3 2,425 20,3 2,425 20,3 20,4 20,4 20,4 20,4 20,4 20,4 20,4 20,4	Footwear & wearing apparel Wood and cork		6,899		5,018 5,018	37.5	Won-residential buildings		4,108.0		2,325.0	76.7
2,917 2,425 44.7 195 2,426 20.3 Rest of the Regions 185 20.3 18.2 Additions/alterations 27,066 22,561 20.0 Betropolitan Banila área 38,434 48,472 (20.9) (Wational Capital Regions) 1,045 34,595 (4.6) Regions 36,535 1,653 1,653 1,653 1,653 1,653 1,653 1,653 1,655 1,656 20.5	Furniture and fixtures		1,469		1,180	77.5	(National Capital Region)		2,289.0		992.0	130.7
3,377 2,823 18.2 Additions/alterations 1, 27,066 22,561 20.0 Etropolitan Banila Area 38,348 49,472 (20.9) (Mational Capital Region) 1,045 947 10.8 (Mational Capital Region) 19,272 15,006 28.4 Rest of the Regions 3,789 (4.6) 28.4 Rest of the Regions 1,553 1,651 (8.2) 2,566 2.46 2.5 5.66 2.5	Partition of the control of the cont	4.2	2,917		2,425	20.3	Rest of the Regions		1,820.0		1,333 0	36.5
38,348 46,472 (20.9) Betropolitan brea 46,472 (20.9) (National Capital Region) 1,045 947 10.8 (20.9) (National Capital Region) 947 10.8 (20.9) (National Capital Region) 19,272 3,769 (4.6) Rest of the Regions 1,591 (8.2) (4.6) 2.4 (4.6)	Rubber Chancola		3,337		2,823	18.2	Additions/alterations		1,184.0		889.0	33.2
19,272 15,006 28.4 Rest of the Regions 3,585 3,789 (4.6) Rest of the Regions 1,581 (8.2) 1,581 (8.2) 2,586 2	Petroleus and coal	÷.	38,348		48,472	(50.9)	Cerropolitan Banila Area (National Capital Region)	•	759_0	•	542.0	40.0
1,555 1,631 14,102 10,609 2,545	Months and a marked products Basic Setal.		19,272	• .	15,006	28.4 28.4 28.4	Rest of the Regions	:	424.0		347.0	22.2
2.696	Machinery except electrical		1,553	. :	1,691	(8.2)				•		
	Transport equipment		2,606		2,546	24.0			•			

SUBSLART OF MAJOR STATISTICAL SERIES (continued)

SUBMBRY OF MAJOR STATISTICAL STRIES (continued)

Percent change

(29.2)

Capper 1, Percip Place, Rales Parcel Place Pa		Latest data	Latest data Compared to	Compared to	d to			Latest data	chta	Compared to	50 E0	
1867 1868 1.	Statistical meries	Reference period	Value	Reference period	Value	Percent change	Statistical series	Reference period	Talue	Reference period	Falue	Ā
1387 1386 1. Feater of visitor arrivals 1597 754,700 1386 15,720.2 4,841.8 131.1 131.1 130.1 1367 1368 131.1 132.2 131.1 132.2 131.1 132.2 131.1 132.2 131.1 132.2 131.1 132.2 132.2 131.1 132.2 131.1 132.2 132.2 132.2 132.2 132.2 132.2 132.2 132.3 132	Chapter 7. Foreign Trade, Balance					. *	Chapter 8: Tourism			' +- '	: '	
1987 1986 1986 1988 18.1 1988	Comparation To The Comparation of the Comparation o						1. Mumber of visitor arrivals	1981	794,700	1986	781,517	
6,720.2 6,043.6 33.6 Pert III. Social Statistics (1,016.8) (201.6) (403.8 Chapter 9. Vital; Health and	<pre>1. Ulrection of external trace (million dollars)</pre>	1987		1986		-		1987	458,000	1986	647,060	
1,121.7 1,015.8 1201.8 4,1841.8 18.1 Chapter 9. Fital, Health and Satistics 1,121.7 1,007.6 5.1 1. Crude birth and death rates 1,121.7 1,007.6 5.1 1. Crude birth and death rates 1,121.7 1,007.6 1,130.2	Exports Imports		5,720.2 6,737.0		4,841.8 5,043.6	18.1	(szerrop puessoul)				•	
1967 6,720.2 1966 4,841.8 18.1 Crude birth and death rates 1985 1984	Balance of trade (all countries)		(1,016.8)		(201.8)	403.9	Fart III. Social Statistics					
1,121.7 1,067.6 5.1 1. Crude birth and death rates 1995 1984 22.0 17.6 81.8 (10.5) (10.	2. Total exports Billion pesos)	1987	5,720.2	1986	4,841.8	18.1	. o.					
32.0 17.6 81.8 Birth rate, 56.3 56.3 56.3 56.3 56.3 56.3 56.3 56.3	Ten principal exports		1,121.7		1,067.6	5.1	1. Grude birth and death rates	1. 20.		1981		
12.1.2 130.2 (6.9) Death rate (5.1.5) 15.4.6 129.7 13.2 (6.9) Death rate (5.1.5) 15.4.6 129.7 13.2 (6.9) Death rate (6.1.5) 15.4.6 138.9 14.3 (1.9.6) 10.5 138.9 (35.3) (35.3) (35.3) 11.8 12.9 (8.5) (8.5) (25.9) 10.9 138.9 (35.3) (25.9) 10.9 138.0 (35.3) (35.3) (25.9) 10.9 138.0 (35.3) (35.3) (35.3) 10.9 138.0 (35.3) (35.3) (35.3) 10.9 138.0 (35.3) (35.3) (35.3) 10.9 138.0 (35.3) (35.3) (35.3) 10.9 138.0 (35.3) (35.3) (35.3) 10.9 138.0 (35.3) (35.3) 10.9 138.0 (35.3) (35.3) 10.9 138.0 (35.3) (35.3) 10.9 138.0 (35.3) (35.3) 10.9 138.0 (35.3) (35.3) 10.9 138.0 (35.3) 10.9 138.0 (35.3) 10.9 138.0 (35.3) 10.9 138.0 (35.3) 10.9 138.0 (35.3) 10.9 138.0 (35.3) 10.9 138.0 (35.3) 10.9 138.0 (35.3) 10.9 138.0 (35.3) 10.9 138.0 (35.3) 10.9 138.0 10.9	Copra		32.0		17.6	831.8	להסלים שלים ליים ליים ליים ליים ליים ליים ל	3	Č	F021	ţ	
154.6 129.7 19.2 2. Number of registered marriages 1985 378,550 1984 38 380.5 380.5 332.8 14.3 70.0 2. Number of registered marriages 1985 378,550 1984 388 32.8 14.3 70.0 1981 (grams/day) 1986 1.24 (8.5) (e.5)	Sugar Banene		121.2		130.2	(6.9)	Death rate		8.1		5.8	
10.5 10.5	Logs and lumber		154.6		129.7	19.2	the section of section by the section of	3001	270 550	,	144	
86.3 83.5 3.4 3. Daily per capita available 1986 1985 1985 100.5 100.5 100.4 supply (grams/day) 1986 1985 1985 100.1 10.8 12.9 (8.5) Cereale and cereal products 62.9 62.9 62.9 62.9 62.0 100.1 1543.9 22.8 Vegetables and nuts 70.0 1586 15.043.6 33.6 Pulses and nuts 863.9 40.1 Pulses and nuts 863.9 40.1 Perits Heat products 11.210.4 863.9 40.1 Perits 10.210.4 Perits 10.21	Desicated coconut		380.5		332.8	14.3	יי באשמין די במאפר המיניים אמני די במאפר איי	COST	000*010	¥021	717.000	
90.5 139.9 (9.5) 1000 Supply (grams/dx) 1986 1885 1895 1995 109.1 88.9 21.4 (0.5) Cereals and cereal products 62.9 (0.5) 62.9 (0.5) 20.4 (0.5) Sugar and syrup 67.9 25.1 5.4 2.019.1 1.543.9 22.8 Sugar and syrup 5.4 5.4 5.4 99.7 146.9 1.210.4 863.9 40.1 Fruits Hits and milk products 56.2 86.2 863.9 40.1 Fruits Hits and milk products 74.3 11.3 11.3 11.3 11.3 11.3 11.3 11.3 1	Pincapples, caned	•	88		83.5	en (•				
1987 6,73.0 1986 5,043.6 33.6 Sugar and tubers 62.9 62.9 62.9 2.018.1 1,643.9 22.8 Sugar and syrup Pulses and nuts 5.4 1,210.4 663.9 40.1 Routes and nuts 65.2 146.9 3.507.5 2,535.6 38.3 Hilk and milk products 74.3 Bggs 11.3 Fish and other marine products 90.4 11.3 Hiscellaneous food 131.8 Hiscellaneous food 131.8	Gold Phery (uppayinfactured)		S		138.9	(8.5)	1000 Supply (grass/day)	1386		1882	,	
1987 6,737.0 1986 5,043.6 33.6 Sugar and tubers 26.1 2,019.1 1,643.9 22.8 Pugar and syrup 5.4 1,210.4 863.9 40.1 Fruits 146.9 3,507.5 2,535.6 38.3 Hilk and milk products 56.2 1987 3,604.5 1986 2,684.9 34.3 Rats and oil 11.3 1987 264.1 1986 1,247 (78.8) Hiscellaneous food 131.8 1987 264.1 1986 1,247 (78.8) Hiscellaneous food 131.8 1987 2,644.9 2,684.9 34.3 Rats and oil 14.5 1987 264 1986 1,247 (78.8) Hiscellaneous food 131.8 1987 2,045 1986 1,247 (78.8) Hiscellaneous food 131.8 1987 2,045 2,046.9 2,046.9 2,046.9 1988 2,046.9 2,046.9 2,046.9 1988 2,046.9 2,046.9 2,046.9 1988 2,045 2,046.9 2,046.9 1988 2,046.9 2,046.9 1989 2,046.9 2,046.9 1980 2,046.9 2,046.9 1980 2	Copper concentrates		109.1		88.9	21.4	Cereals and cereal products		330.1		329.0	
2,019.1 1,643.9 22.8 Pulses and nuts 5.4 99.7 1 1,210.4 663.9 40.1 Pruits 8.1 146.9 146.9 146.9 3.507.5 2,535.6 38.3 Hilk and milk products 74.3 11.3 1987 3,604.5 1986 2,664.9 34.3 Pats and oil 11.3 Hiscellaneous food 131.8 131.8	3. Imports by end use (million \$)	1987	6,737.0	1986	5,043.8	33.6	Sugar and syrup		26.1		25.2	
2,019.1 1,643.9 22.8 Vegetables 99.7 1,210.4 863.9 40.1 Fruits 146.9 1,210.4 863.9 40.1 Fruits 56.2 3,507.5 2,535.6 38.3 Hilk and milk products 74.3 11.3 Eggs 7.504.5 1986 2,684.9 34.3 Fats and oil 11.3 Hiscellaneous food 131.8 1387 264 1986 1,247 (78.8)			:	•			Pulses and nuts		5.4		6.3	
1987 3,507.5 2,535.6 38.3 Hilk and milk products 56.2 74.3 1987 3,604.5 1986 2,684.9 34.3 Fats and oil Fats and oil 14.5 1987 264 1986 1,247 (78.8) Hiscellaneous food 131.8	Consumer goods		2,019.1		1,643.9	22.8 40.1	Vegetables Fruits		59°.7		95.0	
3,50f.5 2,584.9 34.3 Eags Products 11.3 11.3 11.3 11.3 11.3 14.5 1986 2,684.9 34.3 Fats and oil 1.2 14.5 1987 264 1986 1,247 (78.8) Miscellaneous food	Raw materials and				2 262 6	6 86	Meat, products		56.2		51.2	
Fish and other marine products 90.4 1987 3,604.5 1986 2,684.9 34.3 Fats and oil 14.5 Miscellaneous food 131.8 131.8	intermediate goods		a, 500, 5	•	d, 030. p	3-96	nik and mik products Eggs		11.3		11.3	
1987 264 1986 1,247 (78.8) niscellancous rood	4. Exports of non-traditional manufactures (million dollars)	1987	3,604.5	1986	2,684.9	34.3	Fish and other marine products, Fats and oil		98 4. 24. 5		12.7	
	5. Balance of payments (million \$)	1987	264	1986	1,247	(78.8)	niscellabeous loog		131.8		118.1	

SUMMER OF MAJOR STATISTICAL SERIES (continued)

SUMMARY OF MAJOR STATISTICAL STRIES (continued)

	Latest data Compared to	iata	Compared to	or to	-		Latest data	deta	Compared	\$	
Statistical series	Reference	Value	Reference period	Falue	Percent	Statistical series	Reference period	Value	Reference period	Yalue	Percent
4. Calorie and nutrient walnes of awailable food supply (daily	1986		1985			2. Enrolment in government and private schools (in thousand)	SY 1986-87		SY 1985-88		
per capita) Calorie (number) Protein (grams)		2,308		2,248	2001	Elementary Government Fryate		9,229.6 8,639.4 590.2		8,895.9 8,392.1 504.8	15.53 10.93
Fats (grams) 5. Hed capacity of government and private hospitals	1987	4 3	1986	9	بم د	Secondary Government Private		5,326.9 1,969.9 3,357.0		3,269.4 1,949.5 1,319.9	52.9 1.0
Government Private 6. Mumber of hospitals	1987	46,330	1986	48,690 39,750	1.9	Chapter 11. Labor and Employment 1. Total labor force (1,000 persons)	1987	14,316.0	1986	14,030.0	2.0
Government Private		581		617	(5.8)	Employed Unemployed		13,339.0		13,480.0 549.0	(1.0)
Chapter 19. Education 1. Rusher of government and	•		- -			2. Labor force participation rate (percent) Philippines	1987	68.2	1986	66.3	2.9
private achools Pre-School Government	SY 1986-87	::	ST 1985-86	2,254.0	: :	3. Filipino workers sent overseas during the year by major occupation group(land-based)	1987	425,881.0	1986	357,687.0	1.61
Private Ricmentary		33,485.0		33,156.0	0,1	Professional, technical and related workers	•	112,236.6	-	87,569.0	28.2
Government Private		32,037.0		31,817.0	က် (၁)	banagertal, executive, administrative workers Clerical workers		1,675.0		1,317.0	27.2
Secondary Government		3,327.0		5,375.0 3,351.0	0.4	Sales workers Service workers		4,268.0		3,562.0	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Private		2,057.0		2,018.0		Agriculturer, enimin puscandry, forestry workers and fishermen Production process workers.		2,590.0		1,557.0	72.8
dertary Government Private	•	351.0 351.0 818.0		293.0	, 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1	transport equipment operators and laborers		144,541.0		131 234 0	10.1

SUMMARY OF MAJOR STATISTICAL SERIES (continued)

SUBMARI OF MAJOR STATISTICAL STRIBS (continued)

	Latest	Latest data	Compared to	ed to	12		Latest data	data	Compared to	ig to	
Statistical series	Reference period	Value	Reference period	Value	Percent change	Statistical series	Raference period	Value	Reference . period	Falue	Percent
4. Total Allometers of road	1987	157,809.77	1986	162,325.13	(2.8)	Chapter 12. Social Services					
Mational Local		26.082.34		26,229.68 136,095.45	(0.6)	i. Benefits paid by the Government Service Insurance System	, 500	6 6 6	900	500	
5. Rumber of Bridges	1987	11,572	1986	11,740	(1.4)		10E1 .	7,103.0	0061	1,331,3	0.61
National government Local government		7,211		7,379	(2.3)	c. negetity System (million pesos)	1987	2,096.4	1986	1,470.3	42.6
 Length of bridges (linear meters) 	1987	304,305,31	1986	308,890,91	(1.5)	Part IV. Infrastructure Statistics	,				
National government	•	225,640.75		230,226.35	(2.0)	Chapter 13. Transportation and Communication					
Local government		07.500.00		00,100,01	•	1. Rail transport	1987		1986		
	1987		. 1986			Passengers (1,000 persons)		3,201.8		3,744.3	(14.5)
Mumber of vessels entered		72,649		68,442	€ €	Express tonnes (1,000 mt)		21.7	٠	5.6	28.8
8. International shipping movements	1087		480		?	2. Flights and passengers carried by international carriers	1987		1986		
Number of vessels entered Mumber of vessels cleared	1	2,141		1,993	4. 0.	Passengers carried, total Arrivals Departures		3,542,826 1,678,943 1,863,883		3,213,675 1,538,394 1,675,281	10.2 9.1 11.3
9. Number of licensed radio stations	1987	28,117	1986	56,113	(49-9)	Flights, total	· · · · · ·	20,879		19,656	6.2
 Volume of mail handled (1,000 pieces) 	1987	812,663	1986	777,872	ત. ભ	 fotal number of newly-registered motor webloles 	1987		1986	÷	
Received from Foreign Countries Dispatched to Foreign Countries	•	199,021 89,568		194,992	2.1 (11.6)	Cars Utility wehicles Irucke		10,657 23,144 5,112		7,571 13,826 3,413	40.8 57.4 49.8
Delivered in the Philippines		524.074		481,527		Buses frailers Motorcycles		545 1,112 30,430		309 764 34,750	75.4 45.5 (12.4)

SUMMART OF MAJOR STATISTICAL SERIES (continued)

SUMMARY OF MAJOR STATISTICAL SERIES (continued)

	Latest data Compared to	ta	Compared to	to			Latest data	data	Compared to	d to	
Statistical series	Reference period	Value	Reference period	Yalue	Percent change	Statistical series	Reference period	Palue	Reference Period	Talue	Percent change
Chapter 14. Energy and Water Resources		•				3. Internal debt outstanding by level of government	441 042 1987	t- cc cc	0 0 0 0		ç
1. Slectric Energy (million kWh)	1987	٠	1986			TOPIC ARROWS TO		150 170 6	COT T	0.150,471	2
Production Consumption		20,958.0 16,849.8		19,254.0 15,325.1	හ. ආ න ආ	Local government Government corporations Bonetary inetitutions		9,313.3 918.8		161.3	(28.1) (28.1) (96.1)
Part V. Minancial Statistics Chapter 15. Public Finance	•	,	· ·			 Internal debt outstanding by period of maturity (million pesos) 	4th Qtr 1987	162,828.7	1986	144,351.6	12.8
1. Boldings on government securities (million P) by holders	Dec. 1987	150,299.6	1986	123,711.1	21.5	Long term Bedium term	•	25,959.9	;	27,595.8	(5.5) 35.6
In percent		100.0		100,0	• .	מוסער הפנים		115,854,3		98,179,6	
Central Bank		8.1	÷	8.	-	Chapter 16. Boney and Banking	,			· ·	
Commercial and other banks Trust funds	-	4.60		6.3		1. Boney supply (million peses)	December 1987	52,090.3	9861	42,657.2	22.1
Semi-government entities Private sector	•	13.7 59.1,		12.2 51.5		2. Net foreign assets (willion peacs)	December 1987	(108,213.1)	1988	(112,514.3)	(3.6)
2. National government expenditures (million pesos)	1988	169,728	1987	160,416	φΩ Vr	3. Met domestic credits (million pesos)	December 1987	108,380.4	9861	124,728.0	[3]
in percent	-	100.0		100.0		4. Mon-Koney supply deposite (million pesos)	December 1987	110,346,5		101 463 5	OC.
Social services National defense General public service		20.9	·	5. 5. H		5. Met other accounts (Willion pesos)	December 1987	(162,269.5)	1386	(113,907.0)	23.
Net Lending Debt Service Fund		35.2		1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.		6. Loans and investment outstanding (million peace)	1987	143,914.0	9861	189,052.4	(23.9)

	Falue Percent REGIONAL change DELINEATION	0.001	3.8 5.6 5.6 3.1	HEGION S	294,810.1 10.3	NATIONAL CUSTAL REGION	293,418.9 (6.4) 271,013.0 (10.5)	REGION PARTIES OF THE PROPERTY
	Tal				တဲ့တဲ့		on t~	
Compared to	Reference Wal			1988		1986	2 2	3

13 PRO VINCES & 518 PRO VINCES ... 73 PAIN Z ... 72 PAIN Z ... 73 PAIN Z ... 74 PAIN Z ... 75 PAIN Z

Table 1.1 - POPULATION, LAND ARKA AND DENSITY

BY REGION AND PROVINCE: CENSUS YEARS 1918 to 1980

Population (thousands)		## ## ## ## ## ## ##	Populat	Population (thousands)	usands)	## ## ## ## ##					Density	ty (persons/km	13/km)		
region and province	1980 (May 1)	1980 1975 197 (May 1)(May 1)(May		(0 1960 1948 (6)(Reb.15)(Oct 1)	1948 (Oct 1)	*1939 (Jan 1)	1918 (Dec 31)	Land erea (km)	1980 (May 1)	1975 (Hay 1)	1970 (May 6)	1960 (Feb 15)	1948 (Oct 1)	1939 (Jen 1)	1918 (Dec 31)
Philippines	48,098	42,071	36,684	27,088	19,234	15,999	10,316	300,000	160.3	140.2	122.3	86.3 8.3	64.1	53.3	34.4
Metropolitan Manila Area (National					,						•				
Capital Region)	5,926	4,970	3,967	2,462	1,569	994	461	636.0	9,317.4	7,814.5	6,236.9	3,871.8	2,467.0	1,561.3	723 3
Manila Calonean City	1,630	1,479	1,331	1,139	984 F	623	.285	်တ္တ တ္တ မှု	42 571 4	38,619.2	34,746.4	29,728.7.2	5,689,5 1	6,279.2	7,449.2
Pasay City	288 288	322	20e 20e	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	g &	9 5	2 0	0 0 0 0 0 0	20,702,9	345.2	4,840.5	9.544.8	6.383.3 6.383.3	3,968.4	1,345.1
Quezon City	1,166	.957	754	398	TIT.	8	0	166.2	7,014.8	757.3	4,539.4	2,394.6	6.889	234.7	0.0
Makati	136 373	3 82 3 82 8 8	46 265	ដ ដុំ	o t	<u>ر</u>	ന്	44.00 11.00	3,289.5	1,966.5	1,102.0	337.8 33.9	223.6 8.53.6	25 C	89.7 40.12
Malabon	191	175	142	3.5	4 4	# F	38	23.4	8,162,4		6,047.6	3,266.6	1,985.3	1,422.4	927.1
Mandaluyong	205	182	149	72	26	18	က	26.0	7,898.7		5,746.4	2,754.8	1,011.9	700-0	223.3
Marikina	512	ည္က တို့ မ	113	₽ (P	24	51.	თ (න ල සු	5,439.9		2,915.2	0.000,1	66 68 68 68 68 68	0 0 0 0 0 0	245.3
Navotas	137	ი თ ი		5 E	13 0 0	თ է	က (•	46.7 2.6	2,926.7		1,383.1	18 946 9 1	111.0	2003 S	128-14 1178-14
Paranaque	200	128	3 6	P C	3 8	3 5	3 %	7 G	5 445 2		24.04.0 20.00	1.616.1	754.2	. 551.6	577.6
Pasig	269	210	157	85	3 8	382	11	13.0	20,659.2	147.3	12,037.8	4,779.2	2,723.6	2,118.5	1,289.8
Ø		ဗ	56	133	ω	7	4	10.4	3,873.8	2,155.9	2,448.8	1,266.6	805.8	688.5	88 88
San Juan del Monte		122	105	િ આ	8	ရ	ம	10.4	12,508.5	11,778.0	10,053.8	5,467.4	3,028.2	1,814.4	593.5
Laguig Valenznela	2.5	45.	გ გ	25 *	1 12	27 5			6,080 6,4	2,187.0	1,693.7	0.00 0.00 0.00	450-12 25.6-12	286.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	7	1	5	-i -i	-i	2	מ	7	r-010.%	,	4,034	i 3	7.33	2	
Region 1	3,541	3,269	2,991	2,428	1,944	1,728	1,376	21,568.4	164.2	151.6	138.7	112.6	8.13	80.1	83 83
Abra	160	147	146	115	87	88	73	3,975.5	40.3	37.0	38.5	29.0	21.8	- 22.1	18.4
Benguet	933	305	764	184	110	122	4	2,655.4	113.6	113.8	88	8	4.4	45.9.	16.5
Tocos Norte	665	372	64.00 64.00	287	251	88	219	3,389.3	114.9	109.4	101	2 2 2 3 3 4 3	0.4.0	2 y	er o
La Union	453	44 4 54 4 5 71	377.	38	977	20 gg 20 cg 20 cg	178	2,579.6	303.0	207.	250 3	196.1	159.0	1.65	119.2
Mt. Province	ဋ	8	· 8	8	8	3 5	0 0	2,000	49.1	- 67	4.4	40.9	8	28.1	23.4
Pangasinan	1,636	1,520	1,386	1,124	921	742	298	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	1,568	1,039	18,230.8	263.4	230.9	198.3	138.5	100.8	86.1	57.0
Batean	83	263	216	145	88	98	8	1,373.0	235.4	191.7	157.5	105.8	67.7	62.6	42.2
	1,096	0 0 0 0	738	514	385	310	240	2,625.0	417.5	342.7	281.1	195.9	150.1	121 9	4.6
Number action		1.042	500	2 C	2 4 2 4 3 4	417 275	77 25	2,204.3	541.8	4.074	416.0	283.1	191.2	172.0	118.3
		130	280 9	427	327	264	172	3,053.4	225.5	209.9	183.3	139.7	107.1	86.5	28.3
Zambales	ক ক্	416	343	233	138	101	%	3,714.4	119.5	112.1	92.4	o./.c	37.4	83 xó	77.0

BY REGION, URBAN-KURAL: 1980 (continued) on the 20 percent sample) Table 1.4 - POPULATION BY ASS GROUP AND SEX, (Figures are estimates based

	•	Region 3	•		Urban			Rural	
مين مين	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Fenale
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		52,736	49,969
5-9	577,501 655,895	338,834	317,061	229,782 258,072	118,700	111,082		178,590 206,074	169,129
10-14	611,061 524,457	312,759 261,883	298,302 262,574	246,472 222,625	124,323	122,149	364,589 301,832	188,436 154,813	176,153 147,019
20–24	459,487	223,532	235,955	204,525	95,370	109,155	254,962	128,162	126,800
30-34	318,705	159,955		143,284	77,010	72,274	175,421	88,945	86,476
35-39	231,728	117,152		98,972 86,357	49,227	43,908	132,756	67,925 58,662	54,831. 57,064
45-49	162,480	79,457		69,052	33,384	35,668	93,428	46,073	47,355
500-100	108,478	50,357	58,121	44,161	20,139	24,022	64,317	30,218	34,099
6569	88,487 73,980	41,392 34,568	39,412	36,510 30,855	15,502	20,008 17,252	51,977 43,125	20,965	22,160
70-74	45,361 53,074	21,663 24,298	23,698 28,776	19,147	8,687	10,460	26,214	12,976	13,238

BY SEX AND BY REGION: 1980 TO 2000 Mcderate Mortality Decline) thousands) Table 1.7b - FOFULATION PROJECTIONS FOR THE PHILIPPINES, (Medium Assumption - Moderate Fertility and (In

	Phili	Philippines		Metropolitan (National Ca	Manila pital Re	Area gion)	Se l	Region 1		EL	Region 3	
Year	Both	Male	Female	Both sexes	Мале	Female	Both	Male	Female	Both	Male	Female
				1				,				
1980	48,316	24,232	24,084	5,970	2,872	3,098	3,543	1,763	F, /80	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		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	2,236	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	866.4	2,515	2,483	7 395	3,715	3,679
2000	75,224	37,859	37,365	9,895	4,724	5,171	5,073	2,554	2,519	9,529	3,783	3,746

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

BY KIND OF CROP, PHILIPPINES: CROPTEAR 1950 TO 1987 Value in million peeds)

•	93	~ -			เก	ı,	,	•	_	0.1	gend					.4	ī					
Other fraits and mats 1	Talme	17.2			•	88	287	\$	421.0	569	553	7.69	825.5	1055.5	1948.2	2838.1	3227.5	3155	2785.5	4339.6	5356.7	5304.1
Other	Practity	80.8	175.6	223.2	288.4	256_6	337.2	303.8	326.8	337.4	347	470.9	506.4	507.7	1459.3	1597.3	1721.3	1646.5	1350,8	1431.8	1451.7	1426.3
Pineapple	Value	8.5 14.6	19.5	25.3	109.5	121.4	146.6	156.4	285.7	504.1	521.5	558.1	707_0	736 1	1173.2	588.9	1047 1	1599.8	2286.1	2834.1	3954.0	4738.0
Pii.	Quentity	56.5	133.9	176.1	233.4	234.3	282.1	233.4	338.3	424.4	419.9	421.8	464.9	504.5	1004.8	936.1	1213.7	1699.1	1553.5	1973.6	2085.6	2302.0
Hango	Falue	11.7	13.9	27.6	142.9	127.0	132.3	180.0	297.8	254.9	592.8	684.7	678.5	1056.5	1894.8	1809.6	1894.8	1403.7	2649.8	3082.8	3010.0	3485
ES HE	Quantity	27.4	57.6	129.4	151.7	137.5	143.4	187.6	131.5	239.3	293.1	307.6	335.2	363.3	544.5	369.2	126.2	360.7	366.7	380.6	300.8	345 4
38	Value	37.8	24.1	44.1	636.3	811.8	781.2	814.7	1038.1	1542.6	817.0	1043.9	1510.4	1749.0	2349.4	2145.4	2417.8	2519.4	1258.1	1605.7	6264.8	6037.7
Вапапа	Quantity	161.4	307.3	684.8	959	1034.8	980.1	1012.6	1235.5	1686.0	2270.6	2447.4	3155.8	3581.8	1093.4	3996.1	8 1901	3685.4	3850.8	3704.9	3831.7	3580 6
helled)	Value	106.0	1.63.7	272.8	F. 626	723.4	1048.1	831.4	1504.6	2160.9	2394.6	2605.3	2671.4	2851.1	3224.4	3985.8	1343.3	4339.3	7716.5	10794.7	1.0267.7	2406 5
Corn (shelled	Quantity	573.7	1165.3	1312.7	2.002	2011.8	2024.2	1842.8	2257.5	2513.9	2717.3	2774.8	2796.1	3090.3	3050.2	3295.9	3404.1	3134.1	3250.3	3862.8	4080,7	A77B 1
																	_					•
Palay (Rough Rice)	Value	758.6	711.9	1227.7	2073.7	2613.6	3369,3	2771.2	5180.1	5579.5	6200.0	1 0689	7093.5	7573.9	8785.9	10440.4	11572.6	11281.1	13668.1	28718.7	26353.4	0 5050
Pal (Rough	Quantity	2606.1	3739.5	3992.5	\$233°4	5578.4	5324.9	4609.2	5840.7	5909.5	6431.0	6740.6	7198.8	7514.8	7548.5	7910.7	8333.7	7294.9	7828.9	8805.6	9246.8	0000
[B]	Value	483.0	878.2	1313.3	3403.7	3584.7	3592.6	4538.3	1474.2	6726.3	5929.1	10874.3	8682.1	13131.4	14423.7	15628.3	13100.9	15718.5	25419.2	24150.6	14151.7	10005 2
Commercia	Peantity	1735.2	3086.3	3764.1	4816.8	4847.7	4781.8	5418.9	5638.7	6258.5	7889.6	7549.6	7724.9	7761.8	7972.0	7759.2	7450.6	7144.5	6474.1	6001.0	5608.3	2 2 2 2
Ďď	Yalne	1014.9	1167.9	1965.2	4750.3	5685.1	6933.2	6392.4	10557.0	13603.1	14504.6	17217.9	18373.1	20900.8	26554.4	29880.0	33051.9	31856.1	19222.2	67285.2	70978.1	7 27057
₹00g	Quantity	4275.8	7315.1	8478.8	10670.0	11016.1	10865.7	10096.5	12288.0	13743.9	15651.9	17072.9	18615.8	20478.7	24143.0	24323.7	25571.8	23349.2	22380.8	24796.1	25980.5	25509 5
Total	Value	1497.9	2046.1	3278.5	8154.0	9269.8	10525.8	10530.7	18031.2	20329.4	20433.7	28092.2	27065.2	34032.2	10978.1	45708.3	46152.8	8574. 8	74643.4	91435.8	85129.8	03183 3
ğ	Paantity	5011.0 8385 1	10411.4	12242.9	15486.8	15863.8	15657.5	15515.4	17925.7	20002.4	23551.5	24722 5	26340 7	28240.5	32115.0	32082.9	33122.4	30493.7	28854.9	30797.1	31588,8	30083 6
Crop		1950	980	962	1970	1971	1972	1973	1974	1975	1978	125	878	979	1980		1987	1983	1384	1985	1986	1997

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

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

							•	,)) i						•	
Crop.		Citrus 2	Root	Rooterops 3	Wegetables including onlong & potatoes	including potatoes 4	Beans	Beans & peas 5		Coffee		Cacao	Peanuts (unshelled)	nshelled)	Other for	ther food crops 5
	Quantity	Yalue	Coantity.	Value	Quantity	Value	Quantity	Value .	Quantity	Value	Quantity	Talue	Quantity	Value	Quantity	Velte
9	19.8	5.2	664.3	17.0	52.5	11.7	15.4	7.1	6.9		0.7	1.5	12.3	4.1	1.1	
	31.5	6-	1200.0	- 50.7	183.4	38.2	0.03	19.4	7.0	10.6	1.5	40	17.6	ur)	-	0
æ	43.3	10.5	1411.6	85°	185.2	45.6	42.3	23.3	25.9		3.1	0.6	15.3	5.2	8.2	
93	70.8	11.5	1536.7	149.5	216.0	80.9	25.7	14.0	44.0	÷	4.2	11.3	13.2	9, 69	49.5	3.6
1970	7.07	41.0	1316.3	404.5	310.2	245.8	23.0	37.8	19.0			20.5	17.4	16.0	68.0	40.5
E	63	37.7	1220 8	478.8	304 4	775 1	23.5	un ge	45 67	919 6	च्छ (१५	83	60	- 	79.2	52.3
: 2:	- ka		1217 7	146.7	305 8	302.7	23.5) (4 (4)	21.5	236.8	e es	00	6 81	9 60	3.78 87.18	8
. 23		20.5	1220.5	490.5	345.1	382.1	25.9	51.6	9,03	233.8	(G)	9,61	18.2	24.3	113.1	91.5
	9.19	87.6	1410.8	560.9	400.0	588.7	23.2	67.0	53.0	291.3	4.1	34.9	21.6	£11.3	123.4	152.0
1975	77.9	102.5	1807.1	811.9	444.6	1000.9	34.9	129.6	91.4	647.1	3.3	35.3	36.2	38.5	138.0	226.1
. 4	6 461	3 686	2112 5	800 4	3 531	873	111	15.9 7	œ œ		6.8	9.54	. CF	128.5	789 7	5.7
	125.0	3,426	7773 6	1775 6	8 257	743.5	41.7	174.2	105.1	•		60.00	2.94	1.48	316.5	553.9
90	122.7	263.8	3004	1060.2	524.3	60 60	1 17	162.7	118.8		6	78.8	33	116.1	306.4	179.5
0)	122.1	311.2	3568.8	1562.9	467.2	992.3	12.0	135.5	115.5	3	8.6	132.8	48.2	181.4	347.5	747.8
1980	128.0	373.7	5027.8	2371.6	505.3	1247.4	105.8	266.2	136.2	1979.4	4.2	106.8	45.9	188.3	387.0	55.1
****	135.7	677.9	4865.4	2624.3	502.3	1411.9	121.5	305.0	161.6	- 7	. <u></u>	9.40	3.82.	129.1	397.8	578.6
c.i	131.8	383.5	5071.6	3209.2	516.2	1506.3	132.4	372.3	173.0		6.8	138.2	48.6	233.5	424.9	.658.7
	118.4	357.9	4342.3	2810.7	447.5	1271.5	127.2	311.8	114.0		6.4	81.4	83,55	175.4	338.4	504.0
*	125.5	537.7	2862.2	2425.3	676.8	2095.1	86.0	226.4	122.1		5.0	139.1	42.2	281.5	350.0	785.2
1985	130.2	594.5	3399.0	4145.5	467.2	2681.9	94.7	416.1	135.3	3299.7	6.0	191.6	45.2	383.7	353.2	1136.6
92	145.7	720_0	3714.4	5172.5	487.3	2888.5	96.0	480.0	139.8	4597.8	6.6	204.5	43.9	430.9	359.1	1277.2
1987	150.0	713.0	3769.2	5276.2	473.0	2164.8	98.5	578.4	132.0	4051.9	7.2	190.5	6.73	149.7	360.2	1578.6

(Quantity in thousand metric tons; Table 5.1 - QUARTITY AND VALOR OF AGRICULTURAL PRODUCTION

ET LIND OF CROP, PHILIPPINES: CROPINAR 1950 TO 1987 (continued) Talue in million pence)

										•								.]
Crop	Coconut 7	1,3	Sugar	Safarcane. 8	Ab	Abaca	Satire tobacco	bacco	Firginia tobacco	tobacco	Easie	ie	K	Zubber	- 43	Zagrey.	Other commer cial crops	ber commer- cial crops 9
	Quantity	Velue	Quantity	Yaine	Quantity	Value	Quantity	Talne.	Quantity	Value	Quantity	Talne	Quantity	Value	Quantity	Value	Quantity	Talme
	846.1	260.8	654.0	146.8	82.2	52.6	26.4	20.7					1.3		82.4	0.6	123.4	0
i co	1142.9	24:-4	1546.6	321.4	104.5	35.2	20.0	7	101	17.5			2.0		0.2	5	3.0	0.5
	1117.3	389.8	1808.7	349.9	98	58.8	29,8	13.1	2 45	8	2 2		67		2.1	0.5	17	4
Les	1533.8	672.3	2034.8	506.3	134.0	78.6	28.6	15.8	17.2	28.2	un un	3.2	80	6.7	2.5		7.0	0.7
1970	2012.4	1327.1	2594.6	1801.6	122.4	105.7	39.2	80.3	22.0	18.7	3.1	7.1	19.0		2.4	3.2	1	7
-1	1679.1	1261.7	2980.2	2079.3	104.8	6 06	35.8	66.3	20.0	14.6	3,1	-	20.9	29.2	2.4	3.2	1.6	2.3
2	2043.5	1442.8	2553,5	1870.3	110.1	102.8	35.8	83.7	20.5	52.0	3,1	8.8	21.7	23.5	2.5	tr)	1.1	₩
673	2014.2	1700.4	3190.8	2439.0	119.2	118.5	43.7	107.8	21.1	67.5	63	<u>ب</u>	23.1	32.6	2.5	6.5 (1.5		,
	1964.6	3785.5	3449.7	3020.8	125.9	374.7	44.8	151.8	18.5	84.1	2.8	-	28.6	44.4	2.7	t~ e3	1.0	-
1975	2723.1	2885.5	3287.7	2988.4	133.6	514.1	34.9	145.8	22.2	96.4	1.4	2.8	45.7	74.0	1.8	1.2	 	92
	3557.1	2012.5	4070.7	3202.2	139.3	313.4	33.4	125.6	25.5	130.1	1.0	1.0	57.3	137.6	2.6	2.8	3.3	-
	3844.9	1044.4	3541.1	6176.4	150.6	306.2	27.9	105.8	22.5	83.2	0.4	=	58.2	153.0	2.1	8°	1.3	2
	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	65	2.3	7.7	51
	4295.5	8524.9	3198.9	3762.5	148.3	297.0	28.1	189.3	23.2	151.0	1.4	3.2	58.5	130.1	62) 63)	~#! ~!!	; ;	or ·
1980	4570.2	9263.8	3120.8	4226.7	157.2	440.5	23.5	105.7	18.5	108.3	0.2	0.7	57.73	240.0	4.4	5.0	d) d)	ង
		6332.1	3193.0	8558.8	128.3	366.1	21.2	128.6	17.9	146.5	0.5	1.8	72.0	251.2	(c)	5,1	10.5	88
۸.		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	(L)	(D)	13.0	83.
		8768.2	3432.5	7181.9	90.9	261.9	17.0	80.8	27.3	202.2	9.0	3.1	69.8	165.3	4.00	14.3	9.6	30
1984	_	12270.1	3260.2	11150.0	38.7	574.1	20.2	302.4	46.1	517.0	0.5	83	123.1	547.1	6.3	2.5	1.01	5.
	2964.8	12528.7	27.47.6	9278.0	83.7	679.8	. 13.0	264.8	34.0	448.9	0.7	63	148.2	786.2	က က	က တ	7.7	£
1986	3162.4	4496.1	2135.3	7862.9	82.7	440.6	19.2	298.2		464.3	1.8	243.0	154.0	499.1	3.4	10.1	5.4	31.4
	3262 5	8231 B	1861 9	86.65 9	50.5	8 057	3,18	6 ROB	7. 4	107	20.00	7007	136 7	804.3	**	æ	12.7	

I includes atis, evocado, caimito, cashew, chico, guarabano, jeckfruit, lanzones, pili and watermelon from 1950 to the present. Grapes were included starting 1975.

Includes calcanus, mandaria, orange and powelo.

Includes cance, cassava; gabl pao (galiang), ingui and ubl.

Yegetables include cabbage, egyplant, garlic, pechay, radish and tomatoes from 1950 to the present. Ginger was included starting 1970.

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

Includes other fruits and regetables.

⁷ Includes nath used for making copra, densicated occount, home-made oil and as food nuts from 1950 to the present. Buts used for commercial manufacturing were included starting 1970.

8 Includes organizate need for centrifigal organ, muscovado, panocha and molassés.

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

Sources: Macional Economic and Development Authority (formerly EEC),

The Raw Materials Resources Survey Bulletin Series Zo. 1 June 1959;

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

Table 5.2 - AGRICULTURAL ARRA HARWISTED AND MEAN TIKED, BY KIND OF CROP, PHILIPPINES: 1950 to 1987 (Area in thousand hectares; mean yield in metric tons per bectare)

Crop		•																		
1	Iotal area	Palay (ro	Palay (rough rice)	Corn (Corn (shelled)	Banana	801	Kango			Pineapple	ple.	Other f	fruits nuts I	Cith	Citrus 2	Rocterops 3	383	Pegetables including onions and potatoes	including potatoes
	Tested	Årea	Hean yield	Årea	Bean rield	Area sea	Hean Field	Årea	Hean yield			Mean	1 1 1 1 est 1 set 1 est	Kean yield.	Area	Kean rield	Åtea	bean rield	Årea	Sear yield
	5,076.2	2,214.0	1.177	0.808	0.631	57.7	1.652	32.9	0.833	•	15.2	3.717	8.89	1,652	16.6	1.193	185.5	3.581	20.1	2.612
	8,435.3	2,655.5	1.206	1,388.4	0.555	167.0	1,765	56.2	0.897		25.9	3.985	83.2	1.787	19.7	1.598	272.1	4.400	9,72	1.873
	7,596.0	3,306.5	1.131	1,845.5	0.631	161.5	1.903	52.5	1 097		22.8	5.925	3.1	2.125	22.9	1.891	289.1	1.883	80.7	2.235
	8,252.0	3,189.7	1.248	1,522.8	0.683	220.5	3,106	50.6	2.557		30.1	5.850	70.8	3,153	28.6	2.476	273.7	5.615.	53.2	680.4
	8,946.6	3,113.4	1.681	2,419.6	0.830	235.2	3.310	45,5	3 334		28.9	8.076	70.8	4.073	21.3	3.319	252.4	5.215	62.8	533
1971 9	9,214.8	3,195.0	1.746	2,427.8	0.829	227.1	1.557	40.5	3,395		28.0	8.368	65.1	3,942	0.0	3.300	246.0	1.983	53.55	5 203
· 4	9, 480, 4	3,332.3	1.598	2, 154.3	0.825	2(3.8	4.020	40.3	3.515		29.5	9.530	70,8	4.763	18	3.503	258.5	1.711	53 53	3
10	9,320.7	3,194.2	1.443	2,350.6	0.784	250.4	4.044	63.6	. 303		27.5	10.630	67.6	6.583	19.0	3.38 835	286.3	4,583	58 4	5.045
	0,171.4	3,527.8	1.656	2,726.4	0.828	211.8	5.833	63.5	4.402		79.7	11.912	67.1	4.870	19.1	3,225	313.9	767.7	% 82	5.814
5.7	0,800.9	3,532.5	1.627	3,009.9	0.835	233.3	7.227	46.6	5,135		30.5	13.915	87.8	4.976	20.1	3.876	351.2	5.146	15.3	5.00
Č.	1,589.0	3,574.0	1.750	3,193.2	0.851	297.7	7.627	: 60	8_187		35.2	11,529	54.8	5,356	22.3	5.390	6.004	5.347	73.7	8.230
	1,858.7	3,641.4	1.851	3,242.5	0.856	300	8.147	36.2	8,497			11.684	83	6,895	22.1	5.701	451.2	6.147	75.6	6.535
1978 11	11,895.0	3,601.7	1.399	3,158.1	0.885	284.4	11.096	35.4	9.469		65.3	10.263	62.63	7.584	23.5	5.221	460.7	6.521	78.1	8.713
	2,040.1	3,560.7	2.110	3,252.4	0.350	312.0	11.480	38.7	9.388		54.5	11.073	70.4	8,632	24.9	1.30	480.7	1.424	27.79	8.301
1280 12	2, 155.4	3,470.5	2.155	3,139.0	0.976	286.7	12.522	38.7	3.622		62.7	20.426	231.1	7.314	20.B	5.241	523.0	7.135	82 82	1.34
1981 12	2,182.2	3,419.0	2.233	3,294.8	0.980	285.4	13,063	10.7	8.545		57.9	19.294	236.3	7.139	24.1	5.155	522.8	7.150	68.5	7.553
1	2,348.4	3,351.1	2.359	3,382,9	0.979	292.4	12, 304	30.2	10 322		80	20, 667	249.8	7.770	24.2	5.140	511.5	6.616	83 83	7.449
	11,802.5	3,054.3	2.386	3,132.0	0.390	314.2	11.919	1	9.11	- - - - - - -	52.1	18.751	286.6	5.983	25.3	1.802	513.1	§.150	55 23	5.882
	957.1	3,162.3	2.497	3,227.0	1.023	322.1	12:02€	13.4	8.811		57	27.273	261.9	1,999	0.52	5 027	176.7	5,453	65.2	7 241
1385 12	2, 40T, 3	3,306,5	2.545	3,510.9	1.037	320.5	11.267	45.3	8.465		. 55. 55. 51	26.776	268.0	4:735	25.3	4.916	451.6	5.815	66.1	7.268
1988 12	.,624.6	3.464.2	2,673	3,595,0	1.106	329.8	11.574	48 2	6 079	:	\$1 65 67	25, 909	271.2	1,573	28.2	5.007	456.3	5.314	67.0	7.28
	12,539.7	3,255.9	2.632	3,582.5	1,126	324.1	11.362	5	5,605		59.2	54.436	272.2	6.786	8	4.945	468.8	6.464	120	88

BI XIND OF CROP, PHILIPPINES: 1850 to 1987 (continued): mean yield in metric tons per hectare) Table 5.2 - AGRICULTURAL AREA HARPESTED AND MEAN TIRLD, (Area in thousand Aectares;

Pearst Coffee Cacado Cunchilled Code crops 6 Cacado				•		Food crops	s do						:			Commercial	craps				
Head	3	- P	2885	Coffe	45	Cacao		Pean (unsbe	uts lled)	Oth food cr	3 30 30 30 30 30 30 30 30 30 30 30 30 30)))	onut 7	Saga	rcane 8	48	303	Rati	17e 1000	Wir.	Firginia
0.581 18.2 0.385 6.5 0.231 28.4 0.550 2.2 2.136 990.0 1.154 28.77 5.777 217.0 0.482 44.1 0.553 0.541 0.553 0.541 0.553 24.1 0.553 24	Free		ean ield	Area	Mean Field	Årea	Mean yield	Area	Mean rield	Area	Mean yield	Δrea	Mean rield	Årea	Mean yield	est.	Bean yield	frea	fean	frea	Sean rield
1.41 30.5 0.143 6.5 0.470 24.2 0.50 105.4 1.055 242.2 7.486 175.2 0.539 44.1 0.548 11.4 4.32 1.056 242.2 7.486 175.2 0.539 44.1 0.548 11.4 4.32 1.068 350.1 7.486 13.7 0.676 4.73 0.685 200.5 2.686 11.4 4.32 1.068 350.1 7.087 1.068 37.5 0.677 4.73 0.605 0.450 54.0 0.507 32.5 0.542 11.0 2.007 4.11.0 5.701 11.0 5.701 11.0 5.701 11.0 5.701 11.0 5.701 11.0 5.701 11.0 5.701 11.0 5.701 11.0 5.701 11.0 5.701 11.0 5.701 11.0 5.701 11.0 5.701 11.0 5.701 11.0 5.701 11.0 5.701 11.0 5.701 11.0 5.701 11.0	34.0	. :	.453	8.0	0,408	A 8	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	5	ff. K52
0.459 44.3 0.895 9.5 0.438 24.1 0.546 11.4 4.322 1864.7 0.866 250.5 5.805 199.3 0.676 4.73 0.666 0.450 54.0 0.997 8.4 0.512 32.5 0.535 11.7 5.812 1.068 365.1 7.097 173.0 0.768 54.0 0.769 41.6 6.769 7.009 7.009 7.009	605		5	30.5	0.849	6.5	0.470	24.3	0.630	4.0	2.050	1059.4	1.055	242.2	7,468	175.2	0.539	17	0.676	51.7	0.562
0.553 6.4.3 0.512 7.4 0.486 32.5 0.587 12.9 6.140 2004.5 0.820 441.5 6.749 155.3 0.674 45.6 0.783 0.558 6.8 0.567 32.8 0.516 15.9 6.140 2004.5 0.951 441.0 5.790 145.2 0.758 45.7 0.783 0.558 6.8 0.507 32.2 0.548 15.9 6.622 2133.3 0.944 455.2 7.010 153.3 0.770 31.9 0.942 0.517 6.9 0.534 36.7 0.584 15.9 6.622 133.3 0.944 455.2 7.010 153.3 0.770 31.9 0.942 0.517 6.9 0.534 36.7 0.589 18.1 6.818 2206.0 0.381 490.7 7.030 170.1 0.740 88.6 0.770 0.504 170.3 0.770 170.3 0.740 170.3 0.770 170	က်ဝ	. '	. 459 . 450	54.0	0.995	დ, დ დ∵-ან	0.438	32.5	0.548	17	4,342 5,812	1604.7	1.068	350.5	5.805	173.0	0.672 0.708	47.3 54.0	0.605 0.726	8 8 7 7	0.597
0.517 64.9 0.817 7.1 0.507 33.2 0.558 16.9 6.82 2133.3 0.944 455.2 7.010 183.3 0.730 51.9 0.842 0.551 64.9 0.817 7.1 0.507 33.2 0.558 18.1 6.818 2206.0 0.891 490.7 7.030 170.1 0.740 58.6 0.785 0.517 0.517 0.517 0.517 0.517 0.518 2206.0 0.891 490.7 7.030 170.1 0.740 58.6 0.785 0.517 0.517 0.517 0.518 0.517 0.517 0.519 0.517 0.517 0.517 0.518 0.517 0.517 0.518 0.517 0.517 0.517 0.518 0.518 0.518 0.517 0.717 0.518	(O) **	17.	.480	e: 0	0.912	~r. c	0.486	32.5	0.582	12.9	5,140	2048.5	0.820	441.8	6.749	155.3	0.674	66.6 15.7	0.763	81 £	0.890
0.517 64.3 0.017 0.13 0.50 0.661 20.6 6.655 2.279.5 1.195 536.1 6.133 179.7 0.743 48.7 0.717 0.664 16.5 1.195 6.5 1.195 536.1 6.133 179.7 0.743 48.7 0.717 0.664 16.2 1.195 536.1 1.195 536.1 6.133 179.7 0.743 48.7 0.717 0.664 176.2 1.196 17.2 1.111 572.6 7.109 243.8 0.571 51.9 0.644 0.665 62.7 0.777 88.1 3.630 2265.3 1.415 572.6 7.109 243.8 0.571 51.9 0.644 0.665 62.7 0.777 88.1 3.630 2265.3 1.415 572.6 7.109 243.8 0.572 1.30 0.644 0.661 1.30 0.711 31.0 1.20 0.703 47.9 0.708 85.1 3.800 2265.3 1.415 572.6 1.709 243.8 0.532 43.3 0.797 0.711 31.0 1.20 0.703 14.5 8 0.872 55.1 0.708 84.9 4.551 1.402 424.6 7.250 243.8 0.532 43.3 0.797 0.765 87.4 4.551 1.402 424.6 7.250 235.9 0.666 36.7 0.640 0.701 112.8 1.236 7.1 0.568 38.7 0.765 87.4 4.551 1.005.3 1.339 421.1 7.583 220.1 0.556 36.7 0.660 0.709 142.7 0.600 142.7 0.705 48.3 0.709 142.7 0.705	rico ·		38.		0.837	; o	0.507	88.8	0.548		6.692 818	2133.3	0.944	155.2	7.010	163.3	0.736	5 ic	0.842	33.5	0.657
0.654 76.8 1.052 4.0 0.800 60.6 0.673 83.8 3.457 2521.2 1.411 572.6 7.109 243.8 0.571 51.9 0.644 0.664 76.2 1.379 4.4 0.659 62.7 0.737 68.1 3.690 2728.2 1.409 573.2 6.173 26.2 2728.2 1.409 573.2 6.173 6.57 0.573 45.2 0.573 1.409 573.2 6.173 0.573 1.409 2728.2 6.173 6.57 0.777 0.572 2.43.8 0.572 2.43.8 0.577 0.577 0.578 0.578 0.777 0.578 0.777 0.589 0.571 0.589 0.777 0.578 0.572 0.745 0.572 2.43.8 0.573 0.759 0.777 0.778 0.572 0.745 0.566 35.7 0.566 35.7 0.566 35.7 0.568 36.7 4.568 3125.9 1.462 424.6 7.257 26.2	ഴ് ശ്		.631	55.4	1,398	. G.	0.500	54.8	0.661	20.8	6.635	2279.5	1.195	536.1	6.133	179.7	0.743	18.7	0.717	38.0	0.617
0.651 84.5 1.406 4.2 0.738 47.9 0.789 85.1 3.800 2956.3 1.415 521.6 6.292 243.8 0.532 43.3 0.797 0.671 95.2 1.213 4.5 0.844 53.8 0.914 85.2 4.080 3063.6 1.402 451.2 7.090 234.7 0.532 37.3 0.753 0.711 91.0 1.231 6.8 0.872 55.1 0.906 84.9 4.558 3125.9 1.462 42.6 7.350 234.7 0.532 37.3 0.753 0.712 1.231 6.8 0.872 4.4551 3105.3 1.359 421.1 7.350 235.2 0.566 36.7 0.659 0.725 1.25.6 1.26 1.27 1.090 44.5 1.37 4.61 0.77 1.17 4.189 32.9 1.10 0.568 32.1 0.568 0.779 142.7 1.006 12.0 0.495	~ ~		.654	76.8	1.052	0 4	0.800	60.6	0.673	83.8	3,457	2521.2	1.411	572.6 573.2	7,109	243.8	0.571	51.9 45.2	0.644	36.24	0.741
0.707 112.8 1.236 7.1 0.558 38.7 0.765 87.4 4.551 3105.3 1.339 421.1 7.583 230.1 0.568 32.6 0.659 0.725 125.5 1.263 10.8 0.486 56.5 0.860 88.3 4.812 3162.3 1.399 421.1 7.583 230.1 0.568 33.2 0.653 0.739 0.730 142.7 1.006 12.0 0.495 48.5 0.778 80.6 4.199 3209.0 1.008 423.6 8.103 169.0 0.538 29.1 0.584 0.771 144.5 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 25.0 0.775 0.803 145.8 0.917 14.9 0.402 50.2 0.900 80.3 4.398 3274.9 0.905 407.1 6.749 169.5 0.494 17.0 0.755 0.755 0.755 0.755 0.755 0.755 0.755 149.7 0.900 17.0 0.390 54.5 0.861 79.1 4.554 3360.0 0.971 274.2 6.788 157.2 0.576 26.0 0.831	50 50 50		.851 177.	84.5 85.2 91.0	1.406 1.213 1.231	6.5 8.5 8.8	0.738 0.844 0.872	47.9 53.8 55.1	0.789 0.914 0.905	85.1 85.2 84.9	3,800 4,080 4,558	2956.9 3063.6 3125.9	1.419	521.6 451.2 424.6	6. 292 7. 090 7. 350	243.8 234.7 235.9	0.532 0.632 0.666	43.3 37.3 36.7	0.797 0.753 0.640	30.5 22.6 24.4	0.728 0.784 0.758
0.803 [45.8 0.917] 14.9 0.402 50.2 0.900 60.3 1.350 3274.3 0.305 407.1 5.749 [53.5 0.494] 17.0 0.755	00 to to 00	••••	.707 .725 .730 .781	125.5	1.236 1.263 1.006 0.833	7 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.588 0.486 0.495	38.7 56.5 46.1	0.765 0.860 0.738	88 3 77 3 77 3	4, 551 4, 199 4, 527	3105.3 3162.3 3209.0 3216.1	1,389 1,197 1,089 0,908	421.1 470.8 423.6 479.4	7.583 7.227 8.103 6.801	230.1 206.8 169.0 170.3	0.558 0.578 0.538 0.521	32.6 28.1 26.0	0.650 0.663 0.584 0.775	22.22.23.26.25.25.25.25.25.25.25.25.25.25.25.25.25.	0.792 1.038 1.075 1.131
	E 99		1.803 1.750	145.8 148.2 149.7	0.923 0.900 0.900	14.9 15.8 17.0	0.402	30.2 49.9 54.6	0.900 0.879 0.861	81.7 79.1	4,402	3261.5	0.369	355.9	5.399 5.788	161.5	0.512 0.576	22.4 26.0	0.857 0.831	7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1.063

(Area in thousand bectares; mean yield in metric tons per hectares) Table 5.2 - AGRICOLTURAL ARRA BARTASTED AND BEAM TIRLD, BY KIND OF CROP, PHILIPPINES: 1950 to 1987 (continued)

24	Ranie	E	Rabber	grg.	goine)	cial crops	cial crops9
	Heart .	į	Bean	_	Egg Egg 1		Bean
area	yield	Rrea	rield	Arca	rieid	Area	yield
;	:	3.4	0.382	7.0	0.257	f. 5	26.826
2.9	0:586	5,0	00.400	0.4	0.050	5.5	43.768
	1.294	5.2	965.0	2.9	0.724	5.6	0.786
23	1.719	1.0	0.347	2.7	0.926		0.545
. 2.4	1.292	21.8	0.872	2.8	0.857	2.7	0.530
2.4	1.292	23.0	0.309	2.1	0.889	2.4	0.567
2.4	1.292	24.7	0.879	2.6	0.962	-	0.647
2.4	1.333	26.1	0.885	2.6	0.962	7	0.786
2.2	1.273	33.2	0.861	2.6	1.038	1.2	0.833
7	1.000	45.4	1.007	2.5	0.720	.5	5.400
0.2	2.000	55.1	1.040	2.7	0.983	1.5	.2.200
0.2	2.000	58.5	0.395	2.6	1,038		0.765
0.3	4.667	53.7	1.013	20,	. 0.943	un m	0.586
0.3	4.567	53.7	1,095	8,6	1.026	2.5	1.480
0.3	0.667	54.1	1.251	6.5 6.3	1.333	5.7	1.667
0.5	1.000	53.8	1.336	 	1.09.1	10.7	0.991
0.7	1.000	58.3	1.381	63	1.091	11.8	1.102
0.6	1.000	57.7	1.210	3.2	1.063	. 10.7	0.841
9.0	0.886	.; ;;	1.912	3.2	1.053	7-2	1.403
0.7	1,000	71.8	2.036	*† •	1.064	8.4	1.203
	2.382	75.3	2.045	3.2	1.062	5.5	1.163
10.7	2.785	15.7	1.806		1.069	ur Ø	370

includes atis, avocado, caimito, casher, chico, guayabano, jackiruit, lanxones, pill and watermelou from 1950 to the present. Grapes were included starting 1975. 2 includes calamansi, mandarin, orange and powelo.

3 includes camote, cassava, gabi pao (galiang), tugun anu mu.
4 Vegetables include cabbage, eggplant, garlic, pechay, radish and tomatoes from 1950 to the

5 Includes drybeans and monggo from 1950 to the present. Soybeans were included starting 1970. Includes other fruits and regetables.

Includes nuts used for making copra, dessirated cocount, howe-made oil and as food nots from 8 includes sugarcane used for centrifugal sugar, anscorado, panocha and splauses.
9 includes kapok from 1950 to the present. Starting 1975, tastor beans and cotton (seeded) 1959 to the present. Buts used for consercial manufacturing were included starting 1970.

The Ear Materials Resources Survey Billetin Series Ho. 1 June 1959; Department of Agriculture (BA), Bureau of Agricultural Statistica. Sources: Estional Accounte and Development Authority (formerly MEC), were added to this category.

Table 5.3b - area of fards by land use, by region and by province: 1980

Lemporary Lying Crops Beadons Growth crops idle (Ba.) tures (Ba.) tures (Ba.) tures (Ba.) (Ba.) tures (Ba.) tures (Ba.) (Ba.)			grab	krable Land	Lead	Lend	Lead	All other
Frovince (Ha.) Camporary Lying Crops Beadons Growth Crops [Ha.) three (Ha.) th	Region/	Farr Area	Under		Permanent		zith Forest	
pines 9,725,150 4,385,183 838,551 3,483,978 530,035 336,476 18 Capital Region 9,355 4,997 2,649 1,099 98 113 Capital Region 9,355 4,997 2,649 1,099 98 113 28,542 21,323 354 1,512 3,551 1,298 4,0777 17,477 6,777 3,147 8,777 3,147 8,152 2,552 1,238 1,1288 1,1332 32,875 5,33 2,676 5,582 3,301 1,0000 1,0000 1,456 3,275 2,555 1,238 1,238 1,0000 1,0000 1,456 3,275 2,555 1,238 1,388 1,	Province	(Ba.)	temporary crops (Ba.)	Lying Idle (Ha.)	(Ba.)	Meadows and Pas- tures (Ba.		
Capital Region 9,359	Philippines	9,725,150	4,365,183	838,551	3,488,978	530,035	336,476	165,918
1 1 430,875 308,571 17,097 21,950 50,430 18,853 1 28,542 21,323 354 1,512 3,551 1,238 40,777 17,17 17,17 18,777 18,777 17,17 1	Betropolitan Banila Area (Mational Capital Region)	9,359	T86,}	2,649	1,039	85	113	\$
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Begion 1	430,875	308,571	17.097	21,980	50,430	18,863	13,348
lorte 49,082 34,800 1,069 912 7,738 2,551 (4,778 1,1477 6,117 1,1477 6,117 3,147 8,115 2,155 (1,555 1,160 1,106 1,106 3,1275 2,155 (1,5476 1,145 1,106 1,145 1,145 1,145 1,120	Shra	28,542	21,323	354	1,512	3,551	1,238	565
lorte 49,082 34,300 1,065 912 7,735 2,551 (17.73 1.456 3.275 2,555 (17.73 1.456 3.275 2,555 (17.73 1.456 3.275 2,555 (17.73 1.456 3.275 2,555 (17.73 1.456 3.275 2,555 (17.73 1.456 3.275 2,555 (17.73 1.456 3.275 2,557 1.2087 1.238	Benguet	40,777	17,477	6,717	3,147	8,159	2,332	2,384
ince (6,476 36,837 704 1,456 3,275 2,555 47,332 10.626 5,832 3,301 11.236 11.236 1190,823 155,772 4,947 10,120 10,038 5,430 11.236 1162,832 1,420 2,447 10,120 10,038 5,430 102,832 1,420 2,447 1,727 228 1,420 1,	Hocos Norte	49,082	34,800	1,069	912	7,739	2,551	1,911
190,829 12,875 533 2,676 5,582 3,301 190,829 155,772 4,377 2,137 12,087 1,236 190,829 155,772 4,377 10,120 10,038 5,430 12 639,030 415,720 54,431 36,007 95,614 18,111 1 24,653 1,420 2,297 4,74 1,727 2,28 19,136 182,280 7,525 13,800 17,886 6,733 22,438 182,280 7,522 13,800 17,886 6,733 28,454 16,781 6,147 4,469 13,747 1,076 28,454 16,781 6,147 2,856 1,347 1,076 28,454 16,781 6,147 2,856 1,347 1,076 28,454 16,781 6,147 2,856 1,347 1,076 28,454 16,784 2,404 1,008 86 146 101,183 94,639 2,071 966 2,197 403 28,215 18,620 2,375 1,613 4,171 6,673	Hocos Sur	46,476	36,837	704	1,456	3,275	2,555	1,849
10,829 155,779 4,947 10,120 10,038 5,430 2	La Union	47,332	32,875	533	2,676	5,582	3,301	2,385
190,829 155,779	Mt. Province	27,837	9,479	2,773	2,137	12,087	1,236	125
4,653 1,426 297 41, 1727 228 1,653 1,653 1,426 297 474 1,727 228 1,653 1,426 297 474 1,727 228 1,653 1,426 294 1,746 2,136 27,718 291 241,986 182,286 27,639 6,918 13,741 4,149 291 241,986 182,286 27,639 6,918 13,741 4,149 291 10,653 35,770 4,075 4,660 21,005 2,006 2,006 28,454 16,781 15,524 13,785 17,076 3,259 24,318 13,142 1,358 4,567 4,557 631 24,318 13,142 1,358 4,567 4,557 631 24,318 13,142 1,358 4,567 4,557 631 24,318 13,142 1,006 86 146 10,1183 94,890 2,071 966 2,197 403 28,215 18,650 2,375 1,613 4,171 667	Pangatinan	190,829	155,779	1,947	10,120	10,038	5,430	1,509
4,653 1,426 297 474 1,727 228 162,843 127,556 7,565 7,362 12,399 3,589 49,176 16,994 1,246 2,135 17,118 241,896 182,280 27,639 6,918 13,741 4,149 241,896 34,399 7,522 13,800 17,686 6,733 26,770 4,075 4,699 21,005 2,006 28,454 16,781 6,147 2,856 1,347 1,076 2,206 24,318 13,142 1,388 4,567 4,557 631 75,602 6,504 1,042 1,388 4,567 4,557 631 75,602 6,504 1,042 1,006 86 146 101,183 94,690 2,071 966 2,197 403 28,215 18,650 2,375 1,613 4,171 867	Region 2	639,030	415,720	54,431	38,007	95,614	18,111	17,146
162,843 127,536 7,505 7,362 12,330 3,589 49,76 16,394 1,246 2,136 27,718 221 241,986 182,280 27,639 6,918 13,741 4,149 81,866 34,393 7,522 13,800 17,686 6,733 70,053 35,770 4,075 4,450 21,005 2,006 28,454 16,781 6,147 2,856 1,347 1,076 24,318 13,142 1,358 4,567 4,557 851 75,602 65,604 1,042 3,819 2,214 949 101,183 94,690 2,071 966 2,197 403 22,215 18,620 2,375 1,673 4,171 867	Batanes	4.653	1,420	297	134	1,121	272	Š
49,176 16,994 1,246 2,138 27,718 291 241,986 182,280 27,639 6,918 13,741 4,149 81,866 34,393 7,522 13,800 17,686 6,733 70,053 35,770 4,075 4,650 21,005 2,006 28,454 16,781 6,147 2,856 1,347 1,076 24,318 13,142 1,358 4,567 4,557 651 75,602 65,604 1,042 3,819 2,214 949 1134 80,820 76,742 2,404 1,006 86 146 101,185 94,680 2,071 966 2,197 403 28,215 18,620 2,375 1,673 4,171 867	Cagaran	162,843	127,536	7,505	1,362	12,330	3,589	4,461
241,986 182,280 27,633 6,918 13,741 4,149 81,866 34,393 7,522 13,800 17,686 6,733 70,053 35,770 4,075 4,650 21,005 2,006 28,454 16,781 6,147 2,656 1,347 1,076 3,24,318 13,142 1,558 4,567 4,557 651 75,602 65,604 1,042 3,819 2,214 949 190,785 175,712 7,274 1,735 3,851 243 101,183 94,690 2,071 966 2,197 403 22,215 18,620 2,375 1,613 4,171 667	Ifugao	49,176	16,394	1,246	2,136	27,718	Ħ	181
Leara 81,866 34,939 7,522 13,800 17,686 6,733 7,522 13,800 17,686 6,733 7,522 13,800 17,686 6,733 7,005 3,5770 4,075 4,650 21,005 2,006 2,006 2,006 2,006 2,006 2,006 2,006 2,006 2,006 2,006 2,006 2,006 2,006 2,007 2,008 2,007 1,006 2,007 2,008 1,007 2,008 1,007 2,008 1,	Inabela	241,986	182,280	27,639	6,318	13,741	4,148	1,258
28,454 16,781 6,147 2,856 1,347 1,076 2,006 2,006 2,006 2,006 2,006 2,006 2,006 2,006 2,006 2,006 2,006 2,006 2,006 2,006 2,006 2,007 2,008 2,007 2,008 2,007 2,008 2,007 2,008 2,008 2,007 2,008 2,00	Jalinga-Aparao	81,866	34,939	7,522	13,800	17,686	6,733	1,145
28,454 16,781 6,147 2,856 1,347 1,076 3 501,924 444,471 16,524 13,769 17,076 3,259 24,318 13,142 1,358 4,567 4,557 851 75,602 65,604 1,042 3,819 2,214 949 1134 190,785 175,712 7,744 1,753 3,851 243 101,183 94,690 2,071 966 2,197 403 22,215 18,620 2,375 1,673 4,171 867	Buera Fireara	70,053	35,770	4,075	4,69	21,005	2,86	2,737
501,924 444,471 16,524 13,769 17,076 3,259 24,318 13,142 1,358 4,567 4,557 651 75,602 65,604 1,042 3,819 2,214 949 1134 190,785 175,712 7,274 1,735 3,851 243 80,820 76,704 2,404 1,006 86 146 101,183 94,690 2,071 966 2,197 403 28,215 18,620 2,375 1,673 4,171 867	Quirino	28,454	16,781	8,147	2,856	1,347	1.076	247
24,318 13,142 1,358 4,567 4,557 851 75,602 65,604 1,042 3,819 2,214 949 190,785 175,712 7,274 1,735 3,851 243 80,820 76,704 2,404 1,008 86 146 101,183 94,690 2,071 966 2,137 403 29,215 18,620 2,375 1,673 4,171 867	Region 3	501.924	444.471	16,524	13,769		3,259	5,823
13a 190,785 175,712 1,725 3,819 2,214 949 1 13a 190,785 175,712 7,274 1,735 3,831 243 1 80,820 76,704 2,404 1,008 86 146 16,1183 94,890 2,071 956 2,137 403 1 29,215 18,620 2,375 1,673 4,171 567 1	20 KW 157	24.318	13,142	1,358	4.567		851	
1.1a 190,785 175,712 7,274 1,735 3,851 243 1 80,820 76,704 2,404 1,008 86 146 101,183 94,890 2,071 956 2,137 403 29,215 18,620 2,375 1,673 4,171 567 1	Brings	75,602	55,604	1.042	3,819		878	1,974
80,820 76,704 2,404 1,006 86 146 101,183 94,639 2,071 966 2,137 403 29,215 18,620 2,375 1,673 4,171 667 1	Kneva Keija	190,785	175.712	1.21	1,735	٠.	243	1,970
101,183 94,690 2,071 966 2,197 403 8 29,215 18,620 2,375 1,673 4,171 867 1	Paspanga	80,820	76,704	2,404	1,008		146	472
8 29,215 18,620 2,375 1,673 4,171 867 1	Tarlac	101,183	94,690	2,071	388		-63	999
	Zapoules	29,215	18,520	2,375	1,673		90	1,508

