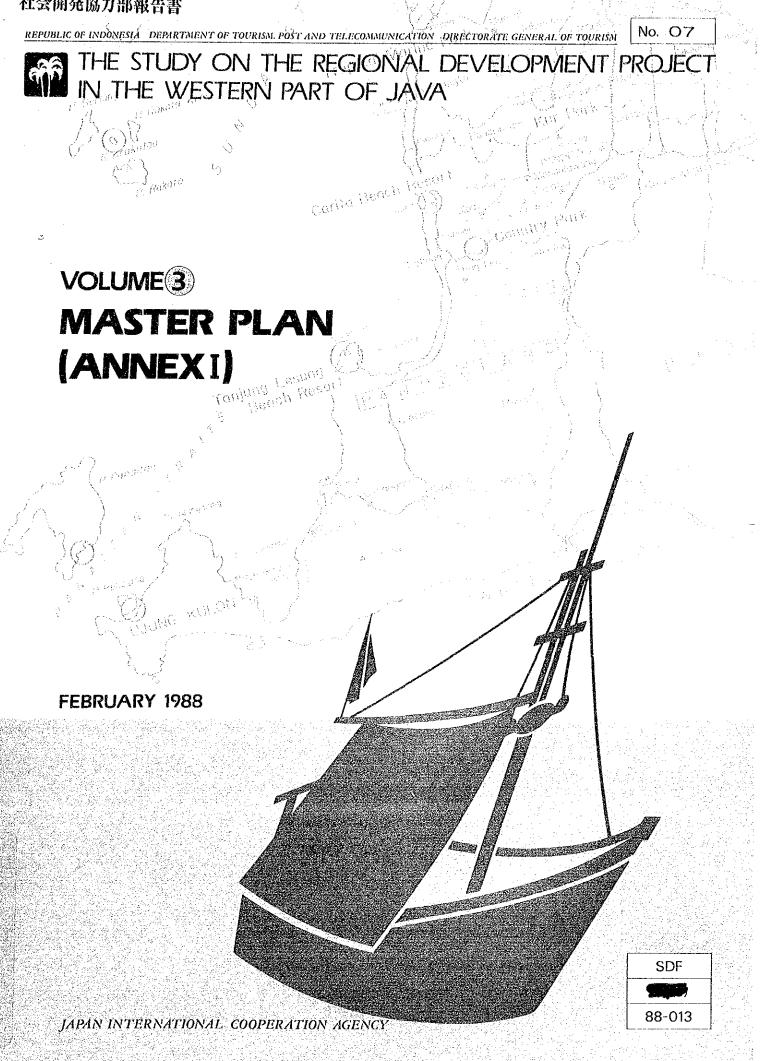
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REPUBLIC OF INDONESIA DEPARTMENT OF TOURISM, POST AND TELECOMMUNICATION DIRECTORATE GENERAL OF TOURISM

THE STUDY ON THE REGIONAL DEVELOPMENT PROJECT

VOLUME® MASTER PLAN (ANNEXI)

1065007[5]

FEBRUARY 1988

JAPAN INTERNATIONAL COOPERATION AGENCY

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LIST OF REPORTS

| 1. | EXECUTIVE SUMMARY | •••••••••••••••••••••••••••••••••••••• |
|---|--------------------|--|
| 2. | MASTER PLAN (MAIN | REPORT) VOLUME 2 |
| 3. | MASTER PLAN (ANNEX | ES) VOLUME 3 |
| · · · | ANNEX I (A) SOC | LIO-ECONOMY |
| | ANNEX I (B) INE | TRASTRUCTURE |
| an an an | ANNEX I (C) REC | IONAL DEVELOPMENT |
| | ANNEX I (D) CON | DITIONS OF TOURISM |
| | ANNEX I (E) TOU | JRISM DEMAND AND PLANNING |
| · · · | ANNEX I (F) ENV | I RONMENT |
| <u>л</u> | | GRAMME (MAIN REPORT) VOLUME 4 |
| 4. | IMPLEMENTATION PRO | GRAMME (MAIN REPORT) VOLOME 4 |
| 5. | IMPLEMENTATION PRO | GRAMME (ANNEXES) VOLUME 5 |
| • • | ANNEX II.A | INFRASTRUCTURE |
| · · | ANNEX II.A.1 | PRELIMINARY DESIGN OF RESTORATION OF OLD MOAT |
| | ANNEX II.A.2 | IMPACTS OF TOURISM DEVELOPMENT ON ROAD TRANSPORTATION |
| | ANNEX II.A.3 | METHOD FOR STUDY ON CAPACITY OF 2-LANE ROAD |
| | ANNEX II.A.4 | WATER DEMAND PROJECTION |
| • | ANNEX II.A.5 | COST COMPARISON OF WATER SUPPLY SYSTEM IN OLD BANTEN |
| · · · · | ANNEX II.A.6 | PRINCIPAL DESIGN CRITERIA FOR WATER SUPPLY SYSTEM |
| 1 - 1 - 1 | ANNEX II.A.7 | SEWAGE TREATMENT |
| 19 - 19 - 19 - 19 - 19 - 19 - 19 - 19 - | ANNEX II.A.8 | DEMAND OF OTHER INFRASTRUCTURES |
| | ANNEX II.A.9 | EVALUATION OF BOAT TRANSPORT OPERATION FOR UJUNG KULON AND KRAKATAU ISLANDS |
| | ANNEX II.B | COST ESTIMATE |
| | ANNEX II.B.1 | DETAIL OF CONSTRUCTION COST (OLD BANTEN) |
| | ANNEX II.B.2 | LOCAL AND FOREIGN CURRENCY PORTION |
| | ANNEX II.B.3 | AREA AND SITE OF FACILITIES (BEACH RESORT) |
| | ANNEX II.B.4 | DETAILS OF DEVELOPMENT COST (BEACH RESORT) |

- i -

.

| ANNEX | II.C | MANAGEMENT |
|-------|------------|--|
| ANNEX | II.C.1 | OPTIONAL TOUR ROUTE: STOP-OVERING OLD BANTEN |
| ANNEX | II.C.2 | PACKAGE TOUR ROUTE TO TANJUNG LESUNG |
| ANNEX | II.D | ENVIRONMENT |
| ANNEX | II.D.1 | FLOW CHART OF EVALUATION FOR ENVIRONMENTAL FACTORS |
| ANNEX | II.D.2 | DISTRIBUTION OF MAJOR VEGETATION TYPES IN THE PULAU DUA NATURE RESERVE |
| ANNEX | II.D.3 | LIST OF FAUNA THAT EXIST IN FIELD (FOREST) OF TANJUNG LESUNG AREA |
| ANNEX | II.D.4 | LIST OF FLORA FREQUENTLY FOUND OUT IN FIELD (FOREST) AT TANJUNG LESUNG AREA |
| ANNEX | II.D.5(1) | WATER ANALYSIS, TANJUNG LESUNG, PADEGLANG, JABAR (3-4 September 1987) |
| ANNEX | II.D.5(2). | LOCATION OF STATIONS FOR WATER ANALYSIS |
| ANNEX | II.D.6 | DILUTION OF SEWAGE EFFLUENT |
| ANNEX | II.D.7 | LIST OF RESPONDENTS OF SOCIO-CULTURAL SURVEY AT OLD BANTEN PROJECT SITE |
| ANNEX | II.D.8 | RESULTS OF SOCIO-CULTURAL INTERVIEW (OLD BANTEN) |
| ANNEX | II.D.9 | LIST OF RESPONDENTS OF SOCIO-CULTURAL SURVEY AT BEACH RESORT PROJECT SITE |
| ANNEX | II.D.10 | RESULTS OF SOCIO-CULTURAL INTERVIEW (BEACH RESORT) |
| ANNEX | II.D.11 | A BRIEF SURVEY ON SOCIO-ECONOMIC CONDITION OF KECAMATAN CIGEULIS AND DESA TANJUNG JAYA |
| ANNEX | II.D.12 | INVESTIGATION SHEETS OF THE STATISTICAL DATA |
| ANNEX | II.D.13 | QUESTIONNAIRES OF INTERVIEW SURVEY |
| ANNEX | II.E | PROJECT EVALUATION |
| ANNEX | II.E.1 | BASIC CONCEPT OF THE FINANCIAL INTERNAL RATE OF RETURN (FIRR) |
| ANNEX | II.E.2 | BASIC CONCEPT OF THE ECONOMIC INTERNAL RATE OF RETURN (EIRR) |
| ANNEX | II.E.3 | SENSITIVITY TO THE DELAY OF DEVELOPMENT |
| ANNEX | II.E.4 | METHODOLOGY OF CALCULATING CONSUMER'S SURPLUS |
| ANNEX | II.E.5 | ECONOMIC COST OF TRANSPORTATION |

ABBREVIATIONS

National and International Organizations

| ADB | : | Asian Development Bank |
|--------------------|---|--|
| APBD | : | Anggaran Pendapatan & Belanja Daerah (Provincial & Regency Budget) |
| APBN | : | Anggaran Pendapatan & Belanja Negara (National Budget) |
| ASEAN | : | Association of South-East Asian Nations |
| ASEANTA | : | ASEAN Travel Agencies Association |
| ASITA (APPI) | : | Association of the Indonesian Tour and Travel Agencies (Asosiasi Perusahaan Perjalanan Indonesia) |
| BAPARDA | : | Badan Pengembangan Pariwisata Daerah (Provincial Tourism Development Board) |
| BAPPARNAS | : | Badan Pengembangan Pariwisata Nasional (National Tourism Development Board) |
| BAPPEDA | : | Badan Perencanaan Pembangunan Daerah (Regional Development Planning Agency) |
| BAPPENAS | : | Badan Perencanaan Pembangunan Nasional (National Development Planning Agency) |
| BPAM | : | Badan Pengelola Air Minum (Water Supply Authority) |
| BPS | : | Biro Pusat Statistík (Central Bureau of Statistics Office) |
| BTDC | : | Bali Tourism Development Corporation |
| BUMN | : | Badan Usaha Milik Negara (State Owned Enterprises) |
| DANA INPRES | : | Special Budget |
| DEPARNAS | : | Dewan Kepariwisataan Nasional (National Tourism Council) |
| DEPDAGRI | : | Departemen Dalam Negeri (Department of Home Affairs) |
| DEPDIKBUD (DEC) | : | Departemen Pendidikan dan Kebudayaan (Department of Education and Culture) |

| DEPERIN | : Departemen Perindustrian (Department of Industry) |
|-----------------------|---|
| DEPHUB | : Departemen Perhubungan (Department of Communications) |
| DEPPARPOSTEL | : Departemen Pariwisata, Pos dan Telekomunikasi (Department of Tourism, Post and Telecommunication) |
| DEP.P.U. | : Departemen Pekerjaan Umum (Department of Public Works) |
| DEPTAN | : Departemen Pertanian (Department of Agriculture) |
| DIPARDA Tk. I | : Dinas Pariwisata Daerah Tingkat I (Provincial Tourist Service) |
| DIPARDA Tk. II | : Dinas Pariwisata Daerah Tingkat II (Kabupaten Tourist Service) |
| DIT. BINA MARGA | : Directorate General of Road Construction |
| DIT. CIPTA KARYA | : Directorate General of Human Settlement |
| DITJEN. HUB. DAR. | : Direktorat Jenderal Perhubungan Darat (Directorate General of Land Transport and Inland Waterways) |
| DITJEN. HUB. DARA. | : Direktorat Jenderal Perhubungan Udara (Directorate General of Air Transport) |
| DITJEN. HUB. LA. | : Direktorat Jenderal Perhubungan Laut (Directorate General of Sea Transport) |
| DITJEN. PAR. (DGT) | : Direktorat Jenderal Pariwisata (Directorate General of Tourism) |
| DIT. PHPA. (DGF) | : Direktorat Jendral Perlindungan Hutan dan Pelestarian Alarm (Directorate General of Forest Protection and Nature Conservation) |
| DPU (P or K) | : Dinas Pekerjaan Umum (Propinsi-Kabupaten/ Kotamadya) (Provincial or Local Public Works Services) |
| IBRD | : International Bank for Reconstruction and Development |
| IDA | : International Development Association |

| IHRA (PHRI) | : Indonesian Hotel and Restaurant Association (Perhimpunan Hotel dan Restoran Indonesia) | |
|----------------|---|--|
| INPRES | : Instruksi Presiden (Presidential Decree) | |
| ITB | : Institut Teknologi Bandung (Bandung Institute of Technology) | |
| JICA | : Japan International Cooperation Agency | |
| JNTO | : Japan National Tourist Organization | |
| KANDEP | : Kantor Departemen (District Office of the Department) | |
| KANWIL | : Kantor Wilayah (Regional Office) | |
| KTH | : Kependudukan dan Lingkungan Hidup (Population and Environment) | |
| мот | : Ministry of Transport (Japan) | |
| NATOUR | : National and Tourism Corporation | |
| PATA | : Pacific Asia Travel Association | |
| PDAM | : Perusahaan Daerah Air Minum (Local Water Supply Company) | |
| PERUMTEL | : Perusahaan Umum Telekomunikasi (Public Company of Telecommunication) | |
| РНРА | : Perlindungan Hutan dan Pelestarian Alarm (Forest Protection and Nature Conservation Office) | |
| рјка | : Perusahaan Jawatan Kreta Api (National Railway Company) | |
| PLN | : Perusahaan Listrik Negara (Public Corporation of Electricity) | |
| PT. HII | : Hotel Indonesia International (International Hotel Corporation) | |
| PT. JASA MARGA | : Indonesian Highway Corporation | |

Local Terms

| Bukit | : Hill |
|-------------------|---|
| Bupati | : Head of Kabupaten (Regency) |
| Danau | : Lake |
| Desa/Kampung | : Village |
| DKI Jakarta | : Daerah Khusus Ibukota Jakarta Raya (Special District Capital Greater Jakarta) |
| Gunung (G.) | : Mountain |
| IKK | : Ibu Kota Kecamatan (Sub-District Town) |
| Kabupaten (Kab.) | : Regency |
| Kecamatan (Kec.) | : Sub-District |
| Kelurahan | : Village |
| Kotamadya (Kodya) | : Municipality |
| KUD | : Koperasi Unit Desa (Village Unit Cooperative) |
| Lama | : Old |
| Palawija | : Upland crops |
| Pantai | : Beach |
| PELITA | : Pembangunan Lima Tahun (Five Year Development) |
| РТ | : Perusahaan Terbatas (Private Limited Company) |
| Pulau (P.) | : Island |
| REPELITA | : Rencana Pembangunan Lima Tahun (Five Year Development Plan) |
| Sungai | : River |
| Tanjung (Tg.) | : Cape |
| Wilayah | : Region |

UNITS OF MEASUREMENT

<u>Length</u>

Electrical Measures

Other Measures

PS

0

r

n

°C

= percent

= degree

= minute

= second

= degree centigrade

= billion (milliard) = parts per million = scale for acidity

= horsepower

| mm | | millimeter | V | | Volt |
|----|----|------------|----|---|----------|
| cm |)) | centimeter | kV | = | Kilovolt |
| m | Ξ | meter | А | = | Ampere |
| km | Ħ | kilometer | k₩ | = | Kilowatt |
| | | | MW | = | Megawatt |

<u>Area</u>

| cm ² | Π | square centimeter | |
|-----------------|---|--------------------------|--|
| m ² | = | square meter (or sq.m) % | |

| ha | = | hectare |
|-----------------|---|------------------|
| km ² | = | square kilometer |

<u>Volume</u>

| | | | 10 ³ | | - | thousand |
|----------------|---|------------------|-----------------|--------|---|----------|
| cm^3 | = | cubic centimeter | 106 | (mil.) | = | million |
| lit | = | litre | 10 ⁹ | | = | billion |
| m ³ | - | cubic meter | ppm | | # | parts pe |
| | | | pН | | = | scale fo |

<u>Weight</u>

Derived Measures

| mg | = | milligram | m ³ /s | = | cubic meter per |
|-----|---|------------|-------------------|---|-------------------|
| g | = | gram | | | second |
| kg | = | kilogram | kWh | = | kilowatt hour |
| ton | = | metric ton | MWh | æ | Megawatt hour |
| | | | kWh/y | = | kilowatt hour per |
| | | | | | year |
| | | | kVA | = | kilovolt ampere |

| sec(s) | = | second | Rp. | = | Rupiah |
|--------|-----------|--------|------|---|--------------|
| min | | minute | US\$ | = | US dollar |
| h | = | hour | ¥ | = | Japanese Yen |
| d | 7. | day | | | |
| У | == | year | | | |

Money

<u>Time</u>

ANNEX I(A)

SOCIO-ECONOMY

ANNEX I (A)

SOCIO-ECONOMY

| $r \in \mathbb{R}^{n}$ | TABLE OF CONTENTS | |
|---|--|------|
| . * | | * . |
| the second se | gente a presidente de la galegia de la servició de la companya de la servició de la companya de la companya de La companya de la comp | Page |
| 1 = 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + | | · . |
| Chapter | 1 GENERAL ECONOMIC BACKGROUND | A.1 |
| | | |
| 1.1 | National Background | A.1 |
| 1.2 | Regional Socio-Economy | A.8 |
| 1.3 | History of Banten Area | A.15 |
| | an a tha an | · |
| Chapter 2 | 2 PRESENT CONDITIONS OF THE STUDY REGION | A,18 |
| | | |
| 2.1 | Natural Conditions | A.18 |
| | 2.1.1 Location | A.18 |
| | 2.1.2 Land | A.18 |
| | 2.1.3 Climate | A.20 |
| · · · | 2.1.4 Generations of Krakatau islands | A.20 |
| | | |
| 2.2 | Socio-Economic Settings | A.22 |
| · | 2.2.1 Administration | A.22 |
| | 2.2.2 Population and transmigration | A.24 |
| · · · · | 2.2.3 GRDP and regional income | A.32 |
| | 2.2.4 Land use and land tenure system | A.38 |
| | 2.2.5 Public and commercial facilities | A.47 |
| | 2.2.6 Socio-cultural conditions | A.49 |
| | | |
| 2.3 | Production Sectors | A.55 |
| | 2.3.1 Agriculture | A.55 |
| | 2.3.2 Plantation and estates | A.71 |
| | 2.3.3 Livestock | A.77 |
| | 2.3.4 Fishery | A.79 |
| | 2.3.5 Small industry | A.87 |
| | | |
| | | |

LIST OF TABLES

| | A LEY MAN AND AND A LEY MAN AND AND A LEY MAN AND AND AND AND AND AND AND AND AND A | |
|-----------|---|------|
| | | Page |
| I (A)-1 | POPULATION BY PROVINCE IN 1961, 1971, 1980 AND 1985 | A.2 |
| I (A)-2 | GROSS DOMESTIC PRODUCT BY INDUSTRIAL ORIGIN AT CURRENT MARKET PRICES, 1971-84 | A.4 |
| I (A) -3 | BALANCE OF PAYMENTS, 1978/79 - 86/87 | A.6 |
| I(A)-4 | POPULATION OF WEST JAVA PROVINCE BY KABUPATEN/ KOTAMADYA IN 1961, 1971, 1980 AND 1984 | A.9 |
| I (A) -5 | GROSS REGIONAL DOMESTIC PRODUCT BY INDUSTRIAL ORIGIN IN WEST JAVA PROVINCE AT CURRENT PRICES, 1975 - 83 | A.11 |
| I (A) -6 | ANNUAL GROWTH RATE OF GRDP BY INDUSTRIAL ORIGIN IN WEST JAVA PROVINCE AT CONSTANT PRICES, 1975 - 83 | A.12 |
| I (A) -7 | DISTRIBUTION OF GRDP BY INDUSTRIAL ORIGIN IN WEST JAVA PROVINCE AT CURRENT PRICES, 1975 - 83 | A.14 |
| I (A) ~8 | POPULATION IN INDONESIA, JAVA, DKI JAKARTA, WEST JAVA AND STUDY REGION, 1961, 1971, 1980 AND 1981 - 84 | A.25 |
| I(A)-9 | POPULATION GROWTH RATE, DENSITY IN INDONESIA, JAVA, DKI JAKARTA, WEST JAVA AND STUDY REGION, 1961, 1971 AND 1980 - 84 | A.27 |
| I(A)-10 | POPULATION DISTRIBUTION BY AGE AND SEX IN 1980 | A.28 |
| I(A)-11 | ESTIMATES OF NET MIGRATION AND NATURAL INCREASE, 1971 - 1980 | A.30 |
| I(A)-12 | TRANSMIGRATION FROM STUDY REGION AND WEST JAVA PROVINCE BY SETTLED PROVINCE, 1984/85 | A.31 |
| I(A)-13 | GENERAL TRANSMIGRATION FROM THE STUDY REGION, 1972/73 - 1985/86 | A.33 |
| I(A)-14 | GDP OF INDONESIA AND GRDP OF DKI JAKARTA, WEST JAVA AND BANTEN REGION AT CURRENT PRICES, 1975 - 83 | A.34 |
| I (A) -15 | DISTRIBUTION OF GDP AND GRDP BY INDUSTRIAL ORIGIN IN INDONESIA, DKI JAKARTA, WEST JAVA AND BANTEN REGION AT CURRENT PRICES, 1973, 1978 AND 1983 | A.36 |

| | - | | |
|-------------|-----------|--|------|
| | | | |
| • | • • | | Page |
| | I(A)-16 | GDP PER CAPITA OF INDONESIA AND GRDP PER CAPITA OF DKI JAKARTA, WEST JAVA AND BANTEN REGION AT CURRENT PRICES, 1973 - 83 | بر ب |
| | | | A.37 |
| | | LAND USE OF THE STUDY REGION | A.39 |
| | I(A)-18 | COOPERATIVES OF SMALL INDUSTRIES IN THE STUDY REGION | A.48 |
| | I(A)-19 | POPULATION BY RELIGION IN THE STUDY REGION, WEST JAVA AND INDONESIA | A.50 |
| | I (A)-20 | PERCENTAGE OF ILLITERATE POPULATION AGED 10 YEARS AND OVER IN INDONESIA AND WEST JAVA PROVINCE | A.51 |
| | I (A) -21 | NUMBER OF ELEMENTARY SCHOOL CHILDREN AND ILLITERATE POPULATION IN THE STUDY REGION, WEST JAVA AND INDONESIA | A.53 |
| | I (A) -22 | NUMBER OF MAJOR HEALTH FACILITIES AND THEIR ACCOMMODATING RATIONS IN THE STUDY REGION, WEST JAVA AND INDONESIA | A.54 |
| | I (A) -23 | HARVESTED AREA, PRODUCTION AND UNIT YIELD OF FOOD CROPS IN THE STUDY REGION AND WEST JAVA IN 1984 | A.56 |
| · · · | I (A) -24 | HARVESTED AREA, UNIT YIELD AND PRODUCTION OF PADDY BY KECAMATAN IN THE STUDY REGION IN 1985 | A.58 |
| - - - | I(A)-25 | HARVESTED AREA, UNIT YIELD AND PRODUCTION OF MAIZE AND CASSAVA BY KECAMATAN IN THE STUDY REGION IN 1985 | A.60 |
| | I(A)-26 | HARVESTED AREA, UNIT YIELD AND PRODUCTION OF SWEET POTATOES AND GROUNDNUTS BY KECAMATAN IN THE STUDY REGION IN 1985 | A.61 |
| | I (A) -27 | HARVESTED AREA, UNIT YIELD AND PRODUCTION OF SOYABEANS AND GREENPEAS BY KECAMATAN IN THE STUDY REGION IN 1985 | A.63 |
| | I (A) -28 | HARVESTED AREA, PRODUCTION AND UNIT YIELD OF VEGETABLES IN THE STUDY REGION AND WEST JAVA IN 1984 | A.65 |
| | I (A) -29 | FRUITS PRODUCTION IN THE STUDY REGION AND WEST JAVA IN 1980 | A.68 |
| | I(A)-30 | MARKETING OF PRINCIPAL FOOD CROPS IN THE STUDY REGION AND WEST JAVA IN 1983 | A.72 |

| and the fact that the second second | | ÷ |
|-------------------------------------|--|------|
| I(A)-31 | PLANTED AREA AND PRODUCTION OF PLANTATION CROPS IN THE STUDY REGION AND WEST JAVA IN 1985 | A.73 |
| I (A) -32 | PLANTATION CROP PRODUCTION OF SMALLHOLDERS BY KECAMATAN IN THE STUDY REGION IN 1984 | A.75 |
| I(A)-33 | LIVESTOCK/POULTRY POPULATION AND PRODUCTION IN THE STUDY REGION AND WEST JAVA IN 1984/85 | A.78 |
| I(A)-34 | LIVESTOCK INDUSTRIES IN KABUPATEN SERANG, 1986 | A.80 |
| I(A)-35 | LIVESTOCK INDUSTRIES IN KABUPATEN PANDEGLANG, 1986 | A.81 |
| I(A)-36 | NUMBER OF FISHERY HOUSEHOLDS, PRODUCTION, BOATS AND AREA IN THE STUDY REGION AND WEST JAVA IN 1984 | A.82 |
| I(A)-37 | MARINE FISHERY PRODUCTION AND VALUE BY KECAMATAN IN KABUPATEN SERANG IN 1985 | A.84 |
| I(A)-38 | FISHERY INDUSTRIES IN KABUPATEN SERANG AND PANDEGLANG, 1986 | A.86 |
| I(A)-39 | SMALL INDUSTRIES IN KABUPATEN SERANG IN 1985/86 | A.88 |
| I(A)-40 | SMALL INDUSTRIES IN KABUPATEN PANDEGLANG IN 1985/86 | A.90 |
| | | |

Page

A.iv

LIST OF FIGURES

| | | Page |
|----------|---|------|
| I(A)-1 | ADMINISTRATIVE DIVISION OF THE STUDY REGION | A.23 |
| I(A)-2 | PRESENT LAND USE OF THE STUDY REGION | A.40 |
| I (A) -3 | PRESENT LAND TENURE | A.45 |
| I (A) -4 | PROCEDURE FOR LAND ACQUISITION | A.46 |
| I (A) -5 | FOOD CROP PRODUCTION IN THE STUDY REGION, 1985 | A.64 |
| I(A)-6 | VEGETABLE PRODUCTION IN THE STUDY REGION, 1985 | A.66 |
| I(A)-7 | FRUITS PRODUCTION IN THE STUDY REGION, 1985 | A.69 |
| I(A)-8 | PLANTATION CROP PRODUCTION IN THE STUDY REGION, 1985 | A.74 |
| I (A) -9 | MARINE FISHERY BASES IN THE STUDY REGION, 1985 | A.85 |
| | | |

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CHAPTER 1 GENERAL ECONOMIC BACKGROUND

1.1 National Background

Indonesia is an archipelago of 13,667 islands stretching along the equator for about 5,000 km from Northwest Sumatra to Irian Jaya on its southeastern border. Its total land are is 1.9 million km², but its total surface area including the seas within its boundaries is over 4.8 million km². Of the numerous islands, Java is the fifth largest and comprises the nation capital DKI Jakarta, DI Yogyakarta, the relevant West Java and other two provinces. The land area of Java is about 132,000 km² or 6.9% of the national total of 1,919,000 km².

As of 1985, total population of Indonesia was estimated at around 163 million. The annual growth rate of the population was about 2.3% from 1971 through 1980. It is projected however that the annual population growth rate will decline to 1.9% in 1995 - 2000. The population projection by the Central Bureau of Statistics (Biro Pusat Statistik: BPS) shows that the population of the country in the year 2000 would reach more than 222.75 million.

The distribution of the population and natural resources among islands is very uneven. The island of Java, covering only 7% of the total land area, sustains almost 61% of the total population. The population density in 1985 is estimated at 759 persons/km², as shown in Table I(A)-1. Except for major cities i.e. Jakarta, Bandung, Surabaya, etc., more than 80% of the population are in the rural areas. The rapid increase of the working population entering the labor market every year has led to a worsening of employment conditions and living environment. However, the average annual growth rate of the population in Java shows a gradual decrease tendency owing to transmigration programmes implemented by the Government and it accounted for 2.02%, while the average of Indonesia is 2.32% during the period from 1971 to 1980.

Table I(A)-1 POPULATION BY PROVINCE IN 1961, 1971, 1980 AND 1985

759 391 22 391 23 391 23 70.2 74 794 943 653 v 33 e) 86 39 53 45 181 669 106 178 152 64 g 1985 ⁻ Population Density/km2 331 690 023 593 868 609 5000 E 3 8 19 96 444 135 55 1980 Ē 192.1 75 381 109 48 51 6 3 640 785 532 24 24.13 Å, 576 467 1971 476 5,039 380 538 707 455 320 ç, ŝ 38 69 20.50 님이 5 -1961. 2.67 2.14 2.29 2.90 2.90 6.48 5.45 2.90 3.82 3.11 1.49 1.53 2.17 1.78 1.78 3.22 2.21 2.40 2.03 4.95 2.47 2.47 2.72 5.47 3.77 2.13 Ē 1980-85 Projection <u>/1</u> Average Annual Growth Rate 2.32 3.32 1.39 2.63 3.11 1.10 1.69 2.36 1.95 3.43 2.16 5.73 2.22 2.31 3.86 2.60 3.32 2.66 2.96 3.09 2.21 2.02 . 49 2.01 2.31 1.74 1971-80 1961-71 2.69 3.31 2.01 2.86 2.14 2.95 1.90 2.92 3.09 2.51 4.46 2.09 1.76 1.59 2.02 2.34 2.51 3.56 1.45 2.94 1.90 2.78 2.83 1.40 2.49 2.10 1.77 1.91 100,279 7,890 30,973 27,145 2,950 31,281 7,842 2,837 1,149 2,306 1,550 9, 518 3, 695 2, 534 1,741 5,453 943 6,033 9,411 2,658 3,071 3,053 629 11,688 2,394 1,551 6,651 1,092 1, 646 1, 368 165,155 32,921 3,004 3, 014 1985 10,408 2,115 1,289 6,062 942 2,611 8,361 2,169 2,169 4,630 4,630 768 91,270 6,503 27,454 25,373 25,373 2,751 2,751 8,487 2,470 2,725 2,737 2,737 6,723 2,486 954 2,065 1,218 2,585 1,411 1,174 147,487 4,625 28,014 1980 2,120 2,204 2,295 8,528 1,719 914 5,181 714 2,013 1,090 923 2,009 6,622 2,793 1,642 1,006 3,441 519 2,777 4,579 2,489 25,517 5,155 2,020 702 1,699 734 20,809 6,619 97,091 119,210 76,086 21,624 21,877 Census 1971 693 4,517 560 1,548 790 758 2,319 1,235 744 2,973. 17,615 1,808 1,473 7,080 1,310 4,969 2,774 1,667 2,242 21,823 5, 558 1, 783 1,967 4,101 496 15,743 1,629 406 18,408 63,061 1961 Maluku & Irian Jaya West Nusa Tenggara East Nusa Tenggara Central Kalimantan Southeast Sulawes1 Total (or Average) South Kalimantan Central Sulavesi West Kalimantan East Kalimantan North Sulawesi South Sulawesi South Sumatra DI Yogyakarta North Sumatra Nusa Tenggara West Sumatra Central Java **DKI Jakarta** East Timor Irian Jaya East Java Kalimantan West Java Bengkulu Sulawest enpung Sumatra Maluku Jamel Riau Ache Bali Java

Remarks:/<u>1</u> x 1,000 /<u>2</u> Official figures are not available. Source: BPS. According to the documents of BPS, the population aged 10 and over was 110.4 million in 1982. Among them, the economically active accounts for 59.6 million corresponding to 54.0% of the population aged 10 and over.

Indonesia is basically an agricultural country but it is being gradually industrialized. The employed population of 31.6 million, 54.7% of the total, are still working in the agricultural sector that comprises agriculture, forestry, livestock and fishery. The Gross Domestic Product (GDP) share of the agricultural sector to the whole industry has decreased from 31.7% in 1975 to 24.9% in 1984. On the other hand, it is observed that shares of manufacturing, transportation & communication, and service sectors are gradually increasing, as shown in Table I(A)-2.

Such a change in the industrial structure is reflected on the issue of regional and urban development. Urbanization in Indonesia is taking place at quick pace. Between 1971 and 1980, the rural urban migration accounted for slightly more than half of the 9.6 million increase in the Indonesia's urban population. During the same period, the urban population increased by 4.0% per annum compared with 2.6% during the period of 1961 - 1871.

At this pace, Indonesia's urban population will be more than double from its 1980 level of 33 million to 72 million by 2000. One of the most important features of Indonesia's development lays in rural-urban differences among regions. Due to the population pressure, 4.3 million Indonesians or 16% of the natural increase in the population resettled permanently in provinces outside those of their birth between 1971 and 1980. Approximately 1.7 million people (or about 40%) moved from Java to other islands in the same period. Of these, 1 million were resettled through the official transmigration programmes.

| | | | | | • | | | کړ. | Preliminary | | Remark: <u>/1</u> Source: BPS. |
|------------|-----------|---------|--------|--------|----------|--------------|--------|---------|-------------|---------|-----------------------------------|
| 85,916 | 73, 647 | 59, 633 | 54,027 | 45,446 | 32,025 | 22, 746 | 19,033 | 15,467 | 12, 643 | 3,672 | Gross Domestic Product |
| | 4 1 | | | | 20 20 | - | | | | | |
| 3,408 | 3,001 | 1,293 | 1,119 | 966 | 833 | 668 | 607 | 546 | 473 | 181 | Other Services |
| 5 | 5, 712 | 4,429 | .3,905 | 3, 142 | 2,200 | 1,685 | 1,394 | 1,074 | 864 | 214 | Public Administration |
| 2,211 | 1,912 | 1,703 | | 1,200 | 516 | 671 | 542 | 319 | 258 | 85 | Ownership of Dwelling |
| 3,068 | 2,039 | 1,604 | | 752 | 655 | 396 | 236 | 207 | 151 | 45 | Banking & Finance |
| 5,003 | 3,978 | 2,795 | 2,352 | 1,965 | 1,422 | | . 843 | 663 | 521 | 162 | Transport & Communication |
| 13, 372 | 12,009 | 8,865 | 7,966 | 6,391 | 4,775 | 3, 450 | 2,959 | 2,552 | 2,104 | 592 | Trade |
| 4,883 | 4,597 | 3, 507 | 3,118 | 2,524 | 1,790 | | 1,023 | 813 | 590 | 128 | Construction |
| 700 | 524 | 380 | 283 | 225 | 149 | 118 | 106 | 98 | 01 | 18 | Electricity, Gas & Water |
| 10,318 | 8,211 | 7,681 | | 5,288 | | 2,420 | 1,817 | 1,453 | 1,124 | 307 | Manufacturing |
| 15,218 | 13,968 | 11,708 | 12,971 | 11,673 | 6,980 | 4,358 | 3,600 | 2,930 | 2,485 | 294 | Minig & Quarrying |
| 1,413 | 1,220 | 1,053 | | 803 | 575 | 868 | 328 | 215 | 191 | 116 | Fishery |
| 954 | 565 | 983 | | 1,142 | 1,048 | 653 | 525 | . 513 | 413 | 142 | Forestry |
| 2,138 | 1,754 | 1,418. | 1,258 | 661 | 069 | 462 | 305 | 346 | 303 | 124 | Livestock Products |
| 768 | 611 | 1,026 | 904 | 693 | 590 | 404 | 326 | 213 | 184 | 107 | Estate Crops |
| 2,516 | 090 | 1,227 | 1,327 | 1,304 | | 802 | 762 | 481 | 358 | 196 | Farm Nonfood Crops |
| 13,665 | 1.11 | 9,961 | 8,102 | 6,357 | 4,892 | 3, 992 | 3,660 | 3,044 | 2,554 | 961 | Farm Food Crops |
| 21,424 | 696 | 15,668 | 13,643 | 11,290 | 8,996 | 6,706 | 5,906 | 4,812 | 4,003 | 1,646 | Agriculture |
| T/ 504T | COLT | 7057 | T DO T | | а / а Т | с + А - С | | | 0107 | T / C T | |
| | | | | | | | | 1 E C F | | | |
| o. billion | Unit: Rp. | | | | | | | | | | |

Table I(A)-2 GROSS DOMESTIC PRODUCT BY INDUSTRIAL ORIGIN AT CURRENT MARKET-PRICES, 1971 - 84

Owing to the remarkable achievements of Repelita I, II and III, the proportion of the population living in poverty declined from 57% to 40% between 1970 and 1980. The reduction in poverty was conspicuous in the outer islands, where poverty incidence was reduced from 43% to 28%. Nevertheless, there still exists outstanding theme to redistribute incomes and alleviate regional socio-economic disparities.

The economy of Indonesia performed well during the decade to 1981, as shown below:

| . · · · . | (% per | annum, a | t consta | int price | s) | |
|----------------------|--------|----------|----------|-----------|------|------|
| 1971-1979 Average | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 |
| 7.9 | 9.9 | 7.9 | 2.2 | 4.2 | 5.8 | |

GDP Growth Rate of Indonesia

Source: BPS.

GDP expanded at an average annual rate of 8.1% in this sustained growth period. But, the overall economic growth slowed down since 1982, mainly due to the deterioration in the terms of trade owing to the economic recession all over the world.

In 1982, the GDP growth at constant prices recorded the lowest growth rate of 2.2% over the past 15 years. Real exports declined by 11.3% due to the weakening in demand for major primary exports, such as petroleum and its related products, timber, rubber, coffee, tin ore, etc. On the supply side, the impetus for growth from the agriculture sector weakened in 1982 due to a severe drought.

The worsening of the economy was also reflected in the balance of payment of Indonesia, as shown in Table I(A)-3. Indonesia GDP per capita is estimated as US\$566 in 1984.

Table I(A)-3 BALANCE OF PAYMENTS, 1978/79 - 86/87

Unit: US\$ million

| | 1978/79 | 1979/80 | 1980/81 | 1981/82 | 1982/83 | 1983/84 | 1984/85 | 1985/86 /1 | 1986/87/2 |
|-----------------------|---------|---------|---------|---------|---------|----------|---------|------------|-----------|
| | | | | | | - | | | |
| Exports (FOB) | 11,353 | 18,511 | 22,885 | 22,994 | 18,672 | 19,816 | 00 | 19,221 | 18,943 |
| OIL & LNG | 7,374 | 12,340 | 17,298 | 18,824 | 14,744 | 14,449 | 13,994 | 13,115 | |
| Other | 3,979 | 6,171 | 5,587 | 4,170 | 3,928 | 5,367 | 5,907 | 6,106 | ં |
| Imports (FOB) | -8,443 | -10,722 | -15,887 | -19,969 | -20,625 | -16, 304 | -14,427 | -13,573 | -13,040 |
| Oil & LNG | -1,661 | -2,672 | -4,050 | -5,408 | -4,801 | -3,489 | -2,797 | -2,865 | -2,865 |
| Other | -6,782 | -8,050 | -11,837 | -14,561 | -15,824 | -12,815 | -11,630 | -10,708 | -10,175 |
| Service | -4,070 | -5,591 | -4,867 | -5,815 | -5,086 | -7,663 | -7,442 | -7,940 | -7,738 |
| Oil & LNG | -1,653 | -2,693 | -2,647 | -3,655 | -2,777 | -3,589 | -3,381 | -3,970 | -3,869 |
| <pre>> Other</pre> | -2,417 | -2,898 | -2,220 | -2,160 | -2,309 | -4,074 | -4,061 | -3,970 | -3,869 |
| A Current Account | -1,155 | 2,198 | 2,131 | -2,790 | -7,039 | -4,151 | -1,968 | -2,104 | -2,214 |
| SDRS | 64 | 65 | 62 | | 1 | | | 1 | |
| Official Capital | 2,101 | 2,690 | 2,684 | 3,521 | 5,011 | 5,793 | 3,519 | 3, 658 | 3,840 |
| Program Aid | 94 | 239 | 118 | 50 | 21 | 84 | 52 | 70 | |
| Project Aid | 2,007 | 2,451 | 2,566 | 3,471 | 4,990 | 5,709 | 3,467 | 3,588 | 3,769 |
| Debt Repayments | -632 | -692 | -615 | -808 | -926 | 010'1- | -1,292 | -1,342 | -1,777 |
| Other | 392 | -1,315 | -361 | 1,140 | 1,795 | 1,191 | 499 | 599 | - 1 - I |
| Balance | 0.4.4 | 2,946 | 3,901 | 1,062 | -1,159 | 1,823 | 758 | 811 | 52 |
| Errors & Omissions | -62 | -1,256 | -1,165 | -2,050 | -2,121 | 247 | | ഹ | |
| Monetary Movements | -708 | -1,690 | -2,736 | 986 | 3,280 | -2,070 | -667 | -61 | |
| | | | | | | | | 28 | |
| | _ | | | | | | | | |

A.6

Remarks: <u>/1</u>Estimate /2Projection

Source: Department of Finance

In Indonesia, the fourth Five Year Development Plan (Repelita IV, 1984-85 - 1988/89) is now under execution. The Repelita IV is based on the following directives:

- To raise the standards of living, intellectual abilities and general welfare of the people and lay strong foundations for subsequent stages of the nation's development.
- 2) To establish the foundation which will serve as an effective basis for future sustained development, and to create an environment that provides every incentive and opportunity for all concerned to participate and perform, fully and harmoniously, in the national development effort;
 - 3) To continue to give priority to economic development with emphasis on agricultural self-sufficiency in food, and on industries, at the same time to give more attention to social development and the development of other noneconomic fields;
 - 4) To continue to be based on the "Trilogi Pembangunan" or the Development Trilogy, namely equity, a sufficiently high rate of economic growth, and a sound and dynamic national stability.

The indications are that the strategy under Repelita IV remains fundamentally unchanged from the one under Repelita III (1979/80 - 1983/84) of placing greater emphasis on equitable development. While the priority of Repelita IV is still on economic development, greater emphasis is given to human resource development comprising education, health, manpower, clean-water supply, nutrition, housing and human settlement, as represented in the sectorial percentage breakdown of the development budget.

In Repelita IV, the average growth rate is expected to be approximately 5% per annum, comprising 3% in agriculture, 2.4% in mining, 9.5% in manufacturing, 5% in construction 5.2% in transportation and communication and 5% in other sectors.

The total government development budget for the entire Repelita IV period amounts to Rp. 78,609.5 billion, while that of the first year of 1984/85 is Rp. 10,459.3 billion and the second year of 1985/86 is Rp. 12,849.0 billion.

The allocations are based on the national priority stated in the Guidelines of State Policy with emphasis on equity, health, education and social overhead capital.

The transmigration programme is implemented in line with the national policy to alleviate regional social disparities. In Repelita IV, the Government attaches high priority to an increase in the rate of transmigration and aims to resettle 750,000 families of about 3.6 million people from Java to the islands of Sumatra, Kalimantan, etc.

1.2 Regional Socio-Economy

The West Java Province covers an area of 46,300 km^2 , occupying 35% of the total area of Java Island.

Based on the 1980 census and population projection, the population of the West Java Province in 1985 is estimated at around 31.0 million, corresponding to 31% of the total population of Java Island and its population density is about 699 persons/km². The population growth rate was 2.36% per annum during the period of 1961 - 1980 [see Table I(A)-4].

The population aged 10 and over in the Province was 20.4 million and the economically active was 10.4 million in 1982, corresponding to 51.3% of the population aged 10 and over.

| - | 1984 | |
|---|--|---|
| | AND | |
| | 1980 | - |
| | 1971, | |
| | 1961, | |
| | NI | |
| | KOTAMADYA | |
| | WEST JAVA PROVINCE BY KABUPATEN/KOTAMADYA IN 1961, 1971, 1980 AND 1984 | |
| | አ ወ | |
| | PROVINCE | |
| | TAVA | |
| | VEST | |
| | л ОЕ | |
| | POPULATION | |
| | Table I(A)-4 | |
| | | |

| Cotamadya196119711Pandeglang440,213572,628Pandeglang427,802546,364Lebac1,314,1561,667,687Bogor964,5951,210,678Sukabumi964,5951,210,678Sukabumi954,5951,210,678Sukabumi924,5431,225,649Cianjur1,596,4091,985,410Bandung924,5431,200,554Garut1,017,6761,313,406Tasikmalaya1,017,6761,313,406Kuningan904,1141,041,988Majalengka527,001658,593Sumedang527,439637,918 | 1984 /1 719,115 714,095 714,095 1,558,499 1,589,499 1,589,499 1,587,496 1,587,496 1,587,499 1,587,347 1,587,606 1,587,606 1,587,347 1,587,606 1,587,599 1,265,172 1,265,172 | 1961-71 2.50 2.50 2.23 2.23 1.93 1.44 1.52 1.52 | 19 19 19 19 19 19 19 19 19 19 19 19 19 1 | 19 88 11 10 10 10 10 10 10 10 10 10 10 10 10 | 1984 275.40 225.40 228.88 782.47 396.32 401.52 900.20 489.53 579.38 538.51 1,429.16 1,429.16 |
|---|---|---|---|--|---|
| Pandeglang 440,213 572,628 694,75 Lebac 427,802 546,364 682,86 Bogor 1,314,156 1,667,687 2,493,84 Sukabumi 964,595 1,210,678 1,517,63 Cianjur 1,596,409 1,985,410 2,669,20 Garut 1,017,676 1,313,406 1,593,18 Tasikmalaya 1,017,676 1,313,406 1,593,18 Ciamis 1,014,626 1,225,689 1,367,57 Kuningan 904,114 1,041,988 1,331,69 Majalengka 527,001 658,593 786,41 Sumedang 527,439 637,918 723,62 | 2 7 7 7 7 7 7 7 7 7 7 7 7 7 | 0040000040 | нали попесс | ∞ $$ | 275.4 275.4 201.5 200.5 200.5 200.5 200.5 200.5 200.5 200.5 |
| Lebac427,802546,364682,86Bogor1,314,1561,667,6872,493,84Sukabumi964,5951,210,6781,517,63Sukabumi964,5951,210,6781,517,63Cianjur899,5031,125,6471,587,57Bandung1,596,4091,985,4102,669,20Garut1,596,4091,985,4102,669,20Garut1,596,4091,985,4102,669,20Ciamis1,017,6761,313,4061,593,18Ciamis1,017,6761,225,6891,567,57Kuningan904,1141,041,9881,331,69Majalengka527,001658,593786,41Sumedang527,001658,593786,41Kuningan527,001658,593786,41Sumedang527,001658,593731,69Kuningan527,001658,593731,69Kuningan527,001658,593736,757Sumedang527,439637,918723,62 | 2,627,40 2,627,49 2,558,49 2,558,49 2,539,59 2,539,59 330,59 330,59 330,59 330,59 330,59 330,59 330,59 330,59 330,59 330,59 330,59 330,59 34,533 34,533 34,533 34,533 34,5333 34,5333 34,53333 34,53333334 34,53333433453545555555555 | N4000004 N | 4 N N N N N N N N O F C | | 228.3 796.3 900.2 539.5 539.5 746.9 746.9 746.9 769.1 769.1 |
| Bogor Bogor Sukabumi Sumedang Sumedang< | 2,627,47 2,558,49 2,558,49 2,737,59,59 1,587,60 1,587,59 1,357,34 1,357,34 1,357,34 1,357,34 1,357,34 1,265,57 1,265,57 | 4 0 0 0 0 0 4 0 | n n n n n n n n o r c | W W H O H O H W W | 782.4 9601534 96015579 96015579 72995579 7299557 729957 729579 729577 72957 729577 729577 729577 729577 729577 729577 729577 729577 729577 729577 729577 729577 729577 729577 72957777 729577 729577 7295777 7295777 7295777 7295777 72957777 72957777777777 |
| Sukabumi 964,595 1,210,678 1,517,63 Cianjur 899,503 1,125,647 1,387,57 Eandung 1,596,409 1,985,410 2,669,20 Garut 924,543 1,200,554 1,483,03 Tasikmalaya 1,017,676 1,313,406 1,593,18 Ciamis 1,017,626 1,225,689 1,367,57 Kuningan 904,114 1,041,988 1,331,69 Cirebon 645,297 749,096 897,72 Sumedang 527,439 637,918 | 1,558,49 2,737,599 1,520,46 1,520,46 1,357,34 930,60 1,357,34 1,265,17 1,265,17 | 00000045 | n www.www.dorc | | 396.3 401.5 900.25 889.5 538.5 746.9 769.1 |
| Cianjur 899,503 1,125,647 1,387,57 Bandung 1,596,409 1,985,410 2,669,20 Garut 924,543 1,200,554 1,483,03 Tasikmalaya 1,017,676 1,313,406 1,593,18 Ciamis 1,014,626 1,225,689 1,367,57 Kuningan 527,001 658,593 786,41 Cirebon 904,114 1,041,988 1,331,69 Majalengka 527,439 637,918 723,62 | 1,389,59 1,520,46 1,520,46 1,587,59 1,587,59 1,357,34 834,31 930,69 930,69 930,69 930,69 930,57 | 0000040 | mmm H U O F C | HOHOHON | 401.5 900.2 579.3 538.5 746.9 746.9 769.1 |
| Bandung1,596,4091,985,4102,669,20Garut924,5431,200,5541,483,03Tasikmalaya1,017,6761,313,4061,593,18Ciamis1,014,6261,225,6891,367,57Kuningan527,001658,593786,41Cirebon904,1141,041,9881,331,69Majalengka645,297749,096897,72Sumedang527,439637,918723,62 | 2,737,59 1,520,46 1,587,60 1,357,60 834,31 1,391,99 1,391,99 1,265,17 | 000004 m | www.wwrc | 0 7 0 H 0 N 0 | 900.2 489.5 579.3 538.5 538.5 746.9 746.9 769.1 |
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| Tasikmalaya 1,017,676 1,313,406 1,593,18 Ciamis 1,014,626 1,225,689 1,367,57 Kuningan 527,001 658,593 786,41 Cirebon 904,114 1,041,988 1,331,69 Majalengka 645,297 749,096 897,72 Sumedang 527,439 637,918 723,62 | 1,587,60 1,357,34 834,31 1,391,99 1,391,99 1,265,17 1,265,17 | 60040 | 10000 | 04000 | 579.3 538.5 746.9 729.1 769.7 |
| Ciamis1,014,6261,225,6891,367,57Kuningan527,001658,593786,41Cirebon904,1141,041,9881,331,69Majalengka645,297749,096897,72Sumedang527,439637,918723,62 | 1,357,34 834,31 1,391,999 1,391,999 930,60 1,265,17 | 0,44.0 | 0010 | H m M α | 538.5 746.9 429.1 769.7 |
| Kuningan527,001658,593786,41Cirebon904,1141,041,9881,331,69Majalengka645,297749,096897,72Sumedang527,439637,918723,62 | 834,31 1,391,99 930,60 746,57 1,265,17 | 0,4 N | 01-0 | ς η α | 746.9 429.1 769.7 |
| Cirebon 904,114 1,041,988 1,331,69 Majalengka 645,297 749,096 897,72 Sumedang 527,439 637,918 723,62 | 1,391,99 930,60 746,57 1,265,17 | 4 ÿ | ۲. c | < < | ,429.1 769.7 |
| Majalengka 645,297 749,096 897,72 Sumedang 527,439 637,918 723,62 | 930,60 746,57 1,265,17 | ŝ | ¢ | α | 69.7 |
| Sumedang 527,439 637,918 723,62 | 746,57 1,265,17 | | 2 | 2 | |
| | I,265,17 | <u>б</u> , | 4 | 9. | 25.0 |
| 0,402 L,63/,40 | | °. | ŝ | n, | 58.7 |
| 448 1,065,25 | 1,074,93 | .1 | ŝ | 5 | 76.6 |
| arta 1,086,422 371,658 457,97 | 467,68 | -10.27 | ς. | 5 | đ. |
| 33,740 1,004,296 1,236,60 | 1,299,66 | റ | en. | m, | 23.3 |
| 692,817 830,921 1,143,46 | 1,238,94 | 8 | ŝ | ീ | 64.7 |
| 390 1,066,695 1,529,02 | 1,628,30 | Ϋ́. | ٩, | 2 | 1,559.68 |
| 720,169 859,367 1,109,18 | I,156,57 | 8 | 6 | 0 | 16.5 |
| 154,092 195,873 246,96 | 245,91 | 4 | 9 | ŝ | , 809.2 |
| umi 80,438 96,242 109,89 | 107,13 | 1.83 | 1.48 | • | 8,817.70 |
| 566 1,200,380 1,461, | 1,415,60 | 4 | 2 | ŝ | ,480.9 |
| Cirebon 158,299 178,529 223,5 | | 5 | 2.51 | 1.21 | 5,680.30 |

Source: Kantor Statistik Propinsi jawa Barat.

Remarks: /1 Resident registration. /2 Based on resident registration. The percentage of the employed population in the Province was 95.6% of the total economically active in 1982 and the percentage of persons employed in the agricultural sector was 5.7%, followed by 9.5% for trade, 12.3% for public service, 11.4% for manufacturing and 5.2% for construction. The percentage of persons employed in the agricultural sector decreased from 48.2% in 1980 to 45.7% in 1982. A gradual decrease in the share of the agricultural sector seems to be the recent trend in Indonesia. Based on the Agricultural Census 1983, the number of farm households in the Province was 3.5 million, accounting for 54.6% of the total number of households.

The Gross Regional Domestic Product of West Java Province increased from Rp. 1,720.79 billion in 1975 to Rp. 9,185.89 billion in 1983 at current prices [see Table I(A)+5]. Table I(A)-6 shows the average real growth rate of 8.1% per annum. GRDP in the West Java Province accounts for 12.5% of Indonesia's GDP in 1983. Assuming that GDP per capita index of the whole country is 100, that of the Province quotes 66.9 in 1983. This indicates that the West Java Province ranks in the middle of development among the 27 provinces of the country. -83 Table I(A)-5 GROSS REGIONAL DOMESTIC PRODUCT BY INDUSTRIAL ORIGIN IN WEST JAVA PROVINCE AT CURRENT FRICES, 1975 Unit: Rp. million 1983 /2 1,667,046.99 117,666.05 89,345.89 230,840.14 3,722.96 28,188.87 806,749.38 2,225,278-79 116,656.76 1,411,093.37 1,382,904.50 641,434.41 165,314.97 92,667.28 84,666.58 2,689.99 737,559.36 393,091.90 385,896.05 9,185,892.44 5,310.71 1,873,478.72 1,473,950.81 494,491.87 409,196.36 14,766.93 13.376.79 23,897.90 1,635.18 31,618.71 330,156.40 6,436.01 112,502.74 216,018.48 1982 /1 104,666.87 1,137,419.16 1,114,593.45 122,124.15 60,975.13 599,521,05 122,905,42 1,427,507.03 206,240.07 3, 293, 80 722,426.47 1,924,807.05 59,297.12 1,265,493.02 346,387.15 13,892.03 22,825.71 53,208.17 1,619.04 4,469.91 637, 832.82 1,615,969.71 380,414.38 310,629.81 11,838.41 18,809.10 88,169.16 7,757,757.01 4,089.54 1,118.51 24,126.52 173,246.81 701,543.96 16,630.37 1,395,251.88 107,814.91 51,767.90 193,359.49 2,821,60 1,020,942.87 17,853.43 662,044.94 563,064.70 98,982.24 37,550.43 37,550.43 37,550.43 37,550.43 37,550.39 1,235.39 1,235.39 1,235.39 37,850.39 306,807.42 277,432.81 221,547.37 103,999.45 1,038,796.30 1,481,369.55 6,938,505.64 1,855,015:23 1,171,361.08 3,201.05 65,907.73 11,677.20 1,178.09 15,146.14 527,793.75 11,014.64 16,869.37 145,102.01 263,546.24 1981 997,744.10 2,457.75 231,240.05 223,564.20 175,010.49 42,380.72 131,547.19 77,215.01 992,181.38 424**,525.**23 210,457.09 1,480,804.52 1,125,515.48 1,231,441.90 2,890.21 977,107.87 545,866.18 84,944.81 33,938.76 1,260.95 3,287.19 11,189.99 1,088.88 5,651,556.02 101,255.91 15,073.51 460,921.37 29,390.62 337,477-68 8,720.80 13,421.60 14,132.44 49,369.65 121,929.43 1980 895,022.58 74,228.09 39,903.82 125,274.27 463,558.73 12,303.66 427,622.46 360,630.31 27,913.21 24,635.85 171,611.17 172,049.63 4 003 612 22 475,862.39 66, 992.15 1,624.57 2,207.75 199,306.08 923,594.31 2,446.04 135,746.83 8,710.51 1,349.42 10,115.38 1,198,673.54 749,537.10 5,183.18 62, 620.21 1,069.61 10,944.31 34,853.27 01,175.97 275,142.82 67.418.54 1979 45,312.16 311,473.63 76,433.16 32,216.74 2,994,091,79 20,226.74 2,011.56 131,247.70 947,774.38 1,732.86 311,130.04 23,838.47 2,007.25 130,198.02 713,080.43 98,052.70 1,559.09 5,854.74 101,939.61 262,315.91 48,814.13 1,604.48 5,877.67 863.60 L15,876.21 9,534.02 579,821.17 119,182.10 6,974.30 26,921.24 201,158.03 676,203.25 88.091.17 .21,244.28 1978 26,012.74 82,510.55 1,259.06 220,457.90 178,698.99 39,169.05 282,210.98 16,616.43 1,354.88 537,061.25 56,964.85 2,412,475.64 6,750.73 19,760.24 1,788.93 548,309.12 111,835.18 4,452.79 346.73 4,607.53 22,302.75 275,460.25 434,622.37 1,851.57 108,010.77 4,007.40 10,781.41 .10,815.93 41,758.91 104,441.14 83,814.91 67,354,20 742,977.50 85,835.11 1977 39,480.49 22,374.93 182.33 2,127,109.55 4,933.30 180,367.01 490,309.74 89,344.76 66,609.79 3,024.39 4,345.48 68,231.16 36,707.58 262,065.23 145,748.86 14,340.24 11,463.42 1,611.35 1,596.71 2,250.96 266,998.53 34,618.15 1,265.47 78,821.93 399,368.27 84,561.51 2,960.65 7,438.87 19,804.82 99,216.29 589,462.73 520,417.61 77,016.64 26,210.11 1976 6,149.96 1,183.68 1,355.45 56,719.21 396,748.72 110,648.77 27,913.45 69,350.23 73,409.85 1,720,786.61 8,689.09 2,493.74 2,782.22 92.21 597,186.16 .82,911.45 325,995.20 1,403.29 7,233.06 11,339.13 66,228.08 21,091.26 32,131.91 179,417.93 3,493.52 38,562.22 57,457.31 3,351.31 .03,334.50 85, 658.20 144,716.35 36,817:30 1,564.23 60,865.11 1975 Transport & Communication Electricity, Gas & Water Large & Medium Industry Gross Domestic Product Small Scale Industry Ownership of Dwelling Public Administration Livestock Products Wholesale & Retail Farm Nonfood Crops Fishery Minig & Quarrying Related Services Banking & Finance Farm Food Crops Water Transport Road Transport Air Transport Communication Other Services Water Supply Estate Crops Manufacturing Electricity Construction Restaurant Agriculture Quarrying Railways Forestry Hotels Mining Trade Gas A.11

Remarks: /lRevised

Source:

Produk Domestik Regional Bruto menurut Milayah Pembangunan Propinsi DT. I. Jawa Barat 1979 - 1983.

(8.1) Unit: % 1983 /2 5.02 0.93 1.09 11.33 1.33 9.46 5.16 5.89 -0.84 4.19 6:32 1.02 0.62 12.74 4.19 9.50 27.04 28 58 34 33 8.93 2.17 13.80 1.34 1.82 1.51 9.84 25.74 -0.64 26.07 2.37 4.13 1982/1 -16.15 8.87 -2.61 -13.02 5.62 5.21 5.98 -11.73 22.65 25.37 -0.05 4.29 7.50 10.56 14.47 14.47 21.87 21.87 21.87 221.87 12.54 -6.38 17.49 8.30 1 83 4.96 14.28 1.74 11.59 2.87 14.70 4.79 1.75 4.28 ANNUAL GROWTH RATE OF GRDP BY INDUSTRIAL ORIGIN IN WEST JAVA PROVINCE AT CONSTANT PRICES, 1975 -3.18 31.10 9.46 9.12 -4.67 4.84 1.99 16.99 18.34 21.40 26.14 -12.17 2.32 15.83 12.85 2.68 66.31 9.05 9,91 8,90 0,85 2.24 3.44 18.54 1.31 28.18 11.38 4.76 6.68 0.18 38.72 1981 5.53 4.98 8.38 16.24 19.12 0.25 39.31 39.31 8.74 8.74 -2.49 13.30 11.59 11.31 15.49 3.27 11.39 10.42 10.98 31.41 -8.43 11.03 17.88 14.93 36.28 26.60 1:01 8.31 23.17 8.61 19.27 2.48 8.74 1980 4 57 2.44 -5.84 -7.25 -6.22 12.57 48.87 -8.82 -8.82 -3.12 7.19 10.13 14.48 9.52 49.57 49.57 23.73 23.73 19.63 15.90 15.90 2.20 7.74 1.27 3.17 1979 17.28 19.45 7.93 9.69 16,66 10.13 5.72 11.63 -62.98 -62.98 21.18 21.18 -33.89 14.69 13.95 13.95 12.66 32.61 12.17 -7.80 -8.50 25.35 31.92 37.20 8.34 14.46 16.61 1.70 14.67 11.81 7.02 11.98 1978 5.22 -3.24 -6.28 -6.28 -7.65 -7.65 -11.27 -0.14 21.16 19.35 39.65 28.39 -0.47 18.45 12.80 8.54 13.80 17.84 -1.57 7.00 25.48 7.82 10.13 80.38 0.57 37.47 6.61 1.18 2.47 18.99 5.94 1977 1.45 4.38 -13.54 -7.25 10:75 42.16 10.80 -2.78 14.28 -7.58 42.41 29.55 15.40 17.05 8.84 6.19 8.60 -4.86 4.86 33.97 8.15 1.26 10.13 5.24 5.91 80.64 18.46 -6.04 52.88 3.49 -3.41 8.47 7.14 5.82 1976 /2 Preliminary rable I(A)- 6 1.74 -3.07 12.69 17.39 7.20 15.76 -16.42 -34.57 32.75 15.49 9 5 9 9.55 11.65 6.85 5.88 -7.59 9.98 10.67 7.35 4.17 7.12 2.73 5.22 4.24 3.49 10.13 8.76 -15.04 -7.38 44.25 Remarks: /1 Revised 501°.11 1.24 1975 Transport & Communication (Average: 1974-1983) Large & Medium Industry Electricity, Gas & Water Small Scale Industry Dwnership of Dwelling ublic Administration Farm Nonfood Crops Livestock Products Wholesale & Retai dinig & Quarrying Related Services sanking s Finance Farm Food Crops Water Transport Road Transport Cher Services Air Transport Communication fanufacturing Estate Crops Water Supply Construction Electricity griculture Restaurant Quarrying Railways Forestry Fishery Mining Hotels tade Gas GROP

Produk Domestik Regional Bruto menurut Wilayah Pembangunan Propinsi

DT. I. Jawa Barat 1979 - 1983

Produk Domestik Regional Bruto Propinsi Jawa Barat 1973 - 1979.

Source:

The share GRDP by sector (at current prices) in 1983 was 24.22% for agriculture, 20.4% for trade, 15.37% for mining and quarrying, 8.78% for manufacturing industries, 8.03% for construction, 5.38% for transportation and compunction and 17.82% for others. The share of the agricultural sector declined by 10.48% during the period from 1975 to 1983 as shown in Table I(A)-7.

The per capita income of the Province in 1983 was Rp. 311,732.28 at current prices and Rp. 110,808.52 at the 1975 constant prices. The average growth rate of the per capita income was 5.5% per annum during the period from 1973 to 1983. This growth rate is higher than 4.2% for the whole of Indonesia.

| | | | | | | • | | | |
|---------------------------------------|--|------------------------------|--------|----------------------------|--------|---|----------------|------------|---------|
| | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 /1 | 1983 /2 |
| | | | | | | | | | |
| Agriculture | 34.70 | 32.41 | 30.80 | 31.65 | 29.94 | 26,80 | 26.74 | 24.79 | 24.22 |
| Farm Food Crops | 25.84 | 24.47 | 22.26 | 22.58 | 22,36 | 19.92 | 20.11 | 18.40 | 18.15 |
| Farm Nonfood Crops | 2.14 | 1.86 | 2.36 | 2.55 | 1.85 | 1.79 | 1.55 | 1.57 | 1.28 |
| Estate Crops | 1.23 | 1.05 | 1.08 | 1.08 | 1.00 | 0.75 | 0.75 | 0.79 | 0.97 |
| Livestock Products | 3.54 | 3.21 | 3.42 | 3.87 | 3.13 | 2.33 | 2.79 | 2.66 | 2.51 |
| Forestry | 0.09 | 0.11 | 0.05 | 0.06 | 0.04 | 0.05 | 0.04 | 0 04 | 0.04 |
| Fishery | 1.87 | 1.73 | 1.62 | 1.51 | 1,56 | 1.37 | 1.50 | 1.35 | 1.27 |
| Minig & Quarrying | 10.63 | 12.55 | 11.70 | 10.40 | 11.89 | 17.56 | 14.97 | 14.66 | 15.37 |
| Mining | 10.43 | 12.32 | 11.42 | 10.08 | 11.58 | 17.29 | 14.71 | 14.37 | 15.06 |
| Quarrying | 0.20 | 0.23 | 0.28 | 0.32 | 0.31 | 0.27 | 0.26 | 0.29 | 0.31 |
| Manufacturing | 8.05 | 8.48 | 9.14 | 10.39 | 10.68 | 9.66 | 9.54 | 9.32 | 8.78 |
| | 6.43 | 6.85 | 7.41 | 8.76 | 9.10 | 8.16 | 8.11 | 7.73 | 6.98 |
| Small Scale Industry | 1.62 | 1.63 | 1.73 | 1, 63 | 1.67 | 1.50 | 1.43 | 1.59 | 1.80 |
| Electricity, Gas & Water | 0.50 | 0.67 | 0.82 | 0.80 | 0,69 | 0.60 | 0,61 | 0.77 | 1.01 |
| Electricity | 0.36 | 0.54 | 0.69 | 0.68 | 0.62 | 0.52 | 0.54 | 0.69 | 0.92 |
| Gas | 0.07 | 0.06 | 0.06 | 0.05 | 0 03 | 0.02 | 0.02 | 0 02 | 0.03 |
| Water Supply | 0.08 | 0.08 | 0.07 | 0,07 | 0.05 | 0,06 | 0.05 | 0.06 | 0.06 |
| Construction | 3.30 | 3.71 | 4.33 | 4.35 | 4.98 | 5.97 | 6.90 | 8.22 | 8.03 |
| | 23.06 | 23.05 | 22.73 | 23.82 | 23.07 | 21.79 | 21.35 | 20.84 | 20.40 |
| Wholesale & Retail | 18.94 | 18.78 | 18.02 | 19.37 | 18.72 | 17.65 | 16.88 | 16.32 | 16.05 |
| Hotels | 0.08 | 0.08 | 0.08 | 0.07 | 0.06 | 0.04 | 0.05 | 0.05 | 0.07 |
| Restaurant | 4.03 | 4.20 | 4.64 | 4.38 | 4.29 | 4.09 | 4.42 | 4.47 | 4.28 |
| Transport & Comunication | 4.27 | 3.98 | 4.48 | 3,98 | 4.30 | 3,96 | 4.00 | 4.89 | 5.38 |
| Road Transport | 3.34 | 3.13 | 3.47 | 3.27 | 3,39 | 3.10 | 3.19 | 4.00 | 4.45 |
| Railways | 0.14 | 0.14 | 0.18 | 0.20 | 0.22 | 0.20 | 0.17 | 0.18 | 0.16 |
| Water Transport | 0.16 | 0.14 | 0.17 | 0.20 | 0.13 | 0.15 | 0.16 | 0.15 | 0.15 |
| Air Transport | 10.0 | 0.01 | 0.01 | 0.03 | 0.03 | 0.02 | 0,02 | 0.01 | 0.02 |
| Communication | 0.19 | 0.20 | 0.19 | 0 20 | 0.25 | 0.24 | 0.22 | 0.24 | 0.26 |
| Related Services | 0.42 | 0.35 | 0.45 | 0.23 | 0.27 | 0.25 | 0.24 | 0_31 | 0.34 |
| Banking & Finance | 0.66 | 0.93 | 0.92 | 0.90 | 0.87 | 0.87 | 0.95 | 2.14 | 1.22 |
| Ownership of Dwelling | 3.85 | 3.62 | 3.56 | 2.94 | 2.53 | 2.16 | 2.09 | 2.23 | 2.35 |
| Public Administration | 6.01 | 5.93 | 6.94 | 6.72 | 6.87 | 7.51 | 9.05 | 9.04 | 9.04 |
| Other Services | 4.97 | 4.67 | 4.58 | 4.05 | 4.18 | 3.12 | 3.80 | 4.10 | 4.20 |
| · · · · · · · · · · · · · · · · · · · | | | | | | | | | |
| | | | | | | | | | |
| GRDP (Average: 1974-1983) | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 100.00 | | 100.00 | 100.00 |
| | í | | | | | | | | |
| Kemarks: / | /T KEVISED | | | | | | | | ••• |
| | <u>/ z r reulminary</u> Droduk Domost | Lminary Demostik Devienel | | 1 1 1 1 1 1 | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | с <u>с</u> с с | | |
| | | DOMESCLAN ACT | | | | מדרה בדמחדוואד הפאש מענער דאום - דאואי איידי | 1 | | |
| | | | | | | | C | そうぐ どくくと 口 | |

1.3 History of Banten Area

Banten is the name given to the western pat of West Java, covering four (4) Kabupatens: Serang, Pandeglang, Lebak and Tangerang.

Colored by the historical vicissitude, Banten area represents a certain diversity in terms of socio-culture, economic structure and so on. This diversity poses considerable challenges for the Government. In this context, it is becoming important to explore the old to be able to understand the new, i.e. the trends in conjunction with macro socioeconomic development. Historical background of Banten area and its culture and socio-economic can be sketched as outlined hereunder, based on the "Indonesia West Java Travel Guide", Directorate General of Tourism, 1981.

Before the arrival of the first Dutch vessels at the Banten coast, the Banten area had been visited by many nationalities. It had carried trade with Annamese, Arabs, Chinese, Indians, Malaysians and Portuguese ad well. The diversification of culture with which it came into contact had left their imprints in the Banten area in the form of Chinese and Sanskrit stone inscriptions dating from the 5th Century, in Islamic mosques and Chinese temples, in endless intrigues and wars to secure the lucrative spice trade, particularly pepper. The country became known as Spice Islands of the East.

Because of foreign influence derived from its historical past, the Banten area presents a challenge to development due to the diversity in its social, cultural and economic structures. Islamization of Java started in the 16th Century when the Islamic Kingdom of Demak was fonded. They drove away the Hindu rulers and annexed the entire north of Java including Banten.

Banten developed into an important entrepôt and played an important role during the years of trade development. The old

Banten or Banten Lama replaced Banten Girang to become the center of governments during the 16th - 18th centuries. Commerce prospered and the agrarian economy switched to overseas trade mainly dealing on exports of pepper to China, other Asian countries and Europe.

The kingdom witnessed an era of prosperity and its market places hummed with activities. With the control of the pepper trade, Banten rose to prominence and its influence was widespread.

Like the Portuguese in the early 1500s, Dutch merchants were interested in direct trade with the Indies to monopolize the pepper trade. Starting in 1556, Dutch vessels landed at Banten. This first attempt from the Dutch ended in failure. In early 1600, Dutch traders banded together to establish the United Dutch East Indies Company. Its purpose was to secure and monopolize the spice commodities. To this end, the Company sent armed vessels to fight and dislodge the foreign posts held by the Portuguese and other nationalities along the Java cost. The Dutch Company embarked upon a series of military campaigns to secure strongholds in Java. In 1800, the Netherlands Government took over the control of the United Dutch East Indies Company and practically started the colonization of the country. During this period, the British held Java for a short period (1811 - 1815) after a successful invasion led by Thomas Stanford Raffles.

Before Banten was annexed by the Dutch, Banten had become a strong and prosperous region possessing the biggest harbour in Java. By the time when Dutch colonized the Banten region, there were chronic conflicts among the ruling sultans that led to anarchism and disunity. The Dutch annexed the Sultanate of Banten in 1808. However, the population resented the domination of the Dutch administration and there were many rebellions, the most famous one being the peasant's revolt of Banten in July 1888. Although most of the uprisings were crushed by the Dutch, their defeat did not break the spirit of

the population to get rid of the colonialists from the Banten region. The history of Banten was imprinted in its resistance against the colonial regime.

The Banten region is mainly inhabited by Sundanese who have their own language and distinctive identity. They used to live most in upland areas. The Javanese live in the plain and they involved themselves in agriculture and commerce. There is an ethnic minority group, the Badui people, who dwells in remote highlands in the southern part of the West Java.

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CHAPTER 2 PRESENT CONDITIONS OF THE STUDY REGION

2.1 Natural Conditions

2.1.1 Location

The study region is located in the extreme western part of the West Java (Two Kabupatens: Serang and Pandeglang) including Krakatau islands in Kab. Lampung Selatan, and is defined or bordered by the Java Sea in the north, the Sunda Straits in the west, the Indian Ocean in the south and by the boundaries of two Kabupatens: Tanggeran and Lebak. However, the study region will be expanded in certain specific aspects of the study to a northern part of Kab. Lampung Selatan.

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2.1.2 Land

The topography is rather complicated. It is flat in the northeast corner, but hilly to mountainous in the rest of the The highest peak is the Gunung Karang, study region. El. 1,778 m followed by the Gunung Pulosari, El. 1,346 m and the Gunung Asenpan, El. 1,174 m. There are two independent mountains with the same name of Gunung Gede, one with its peak at El. 744 m and the other El. 595 m. The latter lies in the peninsula in the north of the study region and the several relatively low mountains ranging from Els. 200 to 600 m (G. Honje: 623 m) are found in the southwestern part of the study region. Between the Gunung Karang and the higher Gunung Gede, there lies a swamp of Rawa Danau formed on Caldera, whereas in the eastern part of Ujung Kulon and Panaitan Island, swamp areas are also found. The Krakatau Islands are composed of four main islands which are Pulau Rakata, Pulau Sertung, Pulau Rakata-Kecil and Pulau Anak Krakatau. They present steep cliffs facing the sea.

The geology of the study region consists of tuffaceous sedimentary rocks and volcanic rocks such as andesites and

basalts which are intruded and/or erupted in the age of Tertiary to Quaternary. Most of the soils in the study region are formed of materials directly derived from volcanic and sedimentary rocks except in bayside tidal marshes, alluvial plains and river terraces. Along the shore, tidal marshes range from 0.7 to 1.5 km wide and are effected regularly by the ebb and flow of the tides.

[10] M. Kamaraka, M. Kataka, M. Kataka, and K. Kataka, "A strain st Strain str

Most of the vegetations in the northern part of the study region are effected by man's activities, while in the southwestern part of the region, it still remains a primary forest, which comes into the category of tropical rainforest.

In the study region, there are natural reserve areas such as Ujung Kulon (51,000 ha), Rawa Danau, Pulau Dua, Tukung Gede, etc. Located on the southwestern tip of West Java, Ujung Kulon National Park (51,000 ha) covers the Ujung Kulon Peninsula and islands of Panaitan and Peucang. The dense forest provides a natural habitat for many species of wildlife such as the one-horned Javan rhinoceros (only 50 heads), wild oxen, deers, wild boars, panthers, crocodiles, snakes and birds.

Most of the rivers in the study region are categorized into two: the ones that drain generally from south to north into the Java Sea, and the other draining from east to west into the Sunda Strait except for the Cibaliung flowing into the Indian Ocean. In the northern part of the region, many belong to the former category, and notable ones are, from the east in order, the Cidurian, Ciujung and Cibanten rivers. Notable rivers in the latter category are, from the north in order, the Kali Anyerm Cidanau, Citajur, Cibungur, Ciliman and Ciseukeut (originating in the swamp of Rawa Danau).

Bank erosion is observed in many rivers and estuaries facing the sea are effected by drift sand. Flood occurs in the west monsoon period in general and causes huge damage to the local production.

As to the other water resources other than rivers, there are many springs on the foot slope of G. Karang. The depth to water table in the region varies from less than one to about 12 m below the ground surface.

2.1.3 Climate sectors and the sector of the sector and the

The climate in the study region is generally characterized as a tropical monsoon climate. As the topography is complicated, the local climatic patterns vary accordingly. The west monsoon dominates the area with abundant rainfall from December through March, and the east monsoon appears with less rainfall from June through September. April to May and October to November belong to the transitional periods.

The precipitation in the study area is rich with the areal average of about 2,500 mm per annum. The annual rainfall varies according to the location and the topography, ranging from about 1,500 mm in the northern coastal plain to about 5,000 mm in the southern mountainous region. The monthly mean air temperature varies little throughout the year ranging between 26°C and 27°C. The relative humidity is generally high ranging from 80% to 85% almost throughout the year.

The average wind velocity at Serang ranges between 3.8 and 4.7 knots or 2.0 m/sec. and 2.4 m/sec. The monthly mean of sunshine duration at Serang ranges between five and six hours in the dry season, whereas it is three and four hours daily in the wet season.

2.1.4 Generations of Krakatau islands

Indonesia ranks first as a nation of volcanoes, with at least 132 active in the past 10,000 years.

Krakatau group, one of the most active volcanoes repeatedly has arisen from the sea and explosively collapsed, only to be borne again. It lies in the collision zone of two tectonic plates on the great firing line where the Indian Ocean's crust drives beneath Asia, feeding a chain of burning mountains that sweeps nearly 3,200 km.

The Krakatau Islands was little known before 1883 but for a few fishermen and adventurers. The island is formed by an active volcano with its peak at Alt. 820 m, It had laid dormant for two hundred years, the previous activities were recorded in 1681, when it erupted again in the summer of 1883.

The day was 20 May 1883. The sound of the eruption was heard from places 200 km away. Steam and ashes rose to a great height. This was just a beginning as the volcano continued its eruption activities for about three months. As a result of the explosion of the volcano, a tsunami occurred when the red hot lava came into contact with the sea. The time was 10 o'clock in the morning of 27 August 1883. The sound was heard as far as Australia some 3,500 km away. The ashes and steam formed a huge colonnade which rose over 80 km high. The sun was hidden within a radius of 30 km. The tsunami which waves reached a height of 30 m struck both Java and Sumatra coasts. The lost of lives among the riparian people was estimated at about 36,000. The particles carried by the winds formed a thick suspended layer which stayed in the atmosphere for about one year.

As a result of the destruction of the volcano, Krakatau caved in on its own base and sank into the sea bottom formed by a submarine caldera with a width of 6.5 km and at a depth of 225 m below the sea level.

In 1927, Krakatau erupted again and an island arose from the undersea caldera. It was named Anak Krakatau (son of Krakatau). Another eruption occurred in 1952 that pushed Anak Krakatau above. After that it rose to a height of 150 m and continued rising. The last recorded eruption happened in 1981. Presently, the group of Krakatau Islands consists of four islands. They are the Rakata, Sertung, Rakata Kecil and Anak Krakatau islands. The three peripheral islands of the Krakatau group are thought to be the remnants of the previously existing single andesite volcano some 1,980 m high named ancient Krakatau. There exist records of seven eruptions of Krakatau between the 9th and 16th Centuries.

From 1980, the activities of Krakatau volcanoes are permanently observed at Pasauran station (located at about 20 km on the north from Labuan) of the Directorate General of Mining and Mineral Resources, Department of Mining and Energy and its records are regularly sent to the Bandung headquarters for their analyses.

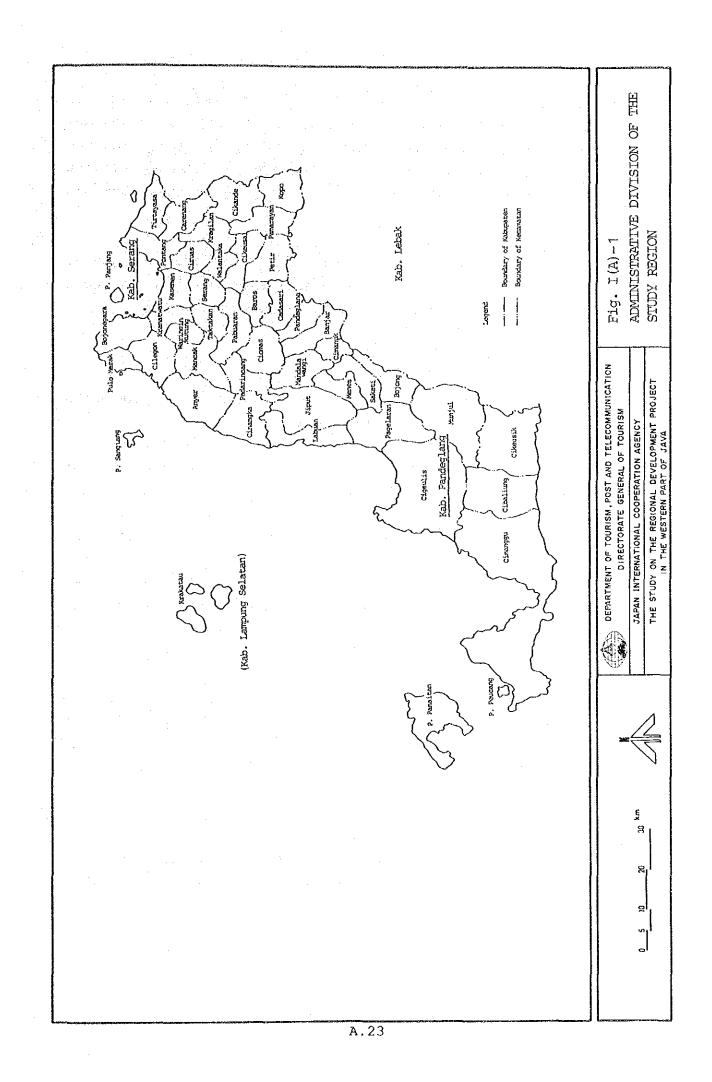
According to the interview survey with observers at Pasauran station, the activities of volcanoes are normal for the time being and significant earthquakes do not happen in last decades on the coastal zone.

2.2 Socio-Economic Settings

2.2.1 Administration

The study region for this socio-economic study is defined as a jurisdiction of whole two Kabupatens (Kab.) of Serang and Pandeglang, together with the Krakatau islands which belong to Kab.Lampung Selatan [see Fig. I(A)-1].

The study region covers a land area of $4,520 \text{ km}^2$, comprising 1,876 km² for Serang, 2,609 km² for Pandeglang and 35 km² for the Krakatau Islands. The study region is nearly 10% of the gross area of the West Java Province.



The administrative district of the study region covers 42 Kecamatans and 746 Desas/Kelurahans, including 26 Kecamatans and 412 Desas/Kelurahans in Kab. Serang and 16 Kecamatans and 334 Desas/Kelurahans in Kab. Pandeglang. Krakatau Islands belong to Kecamatan Kalianda of Kab. Lampung Selatan, Lampung Province in Sumatra Island.

The capital towns of each Kabupaten are Serang and Pandeglang. Besides, the Krakatau Islands are administrated from the town of Kecamatan (IKK) Kalianda in Kab. Lampung Selatan.

2.2.2 Population and transmigration

Population Censuses in Indonesia were carried out in the years 1961, 1971 and 1980 after independence.

In 1984, the study region supported a population of some 1,857,692 consisting of 1,156,577 in Kab. Serang and 719,115 in Kab. Pandeglang. The Krakatau Islands are uninhabited. The population in the study region is about 6.6% of the total Province. The average population per household in the region is estimated at 4.81 in 1980. This size is slightly higher than those of Java Island (4.65) and the West Java Province (4.5), but a little lower that of national average (4.87), as shown in Table I(A)-8.

The population in the study region is unevenly distributed due to its topography and it is dense in the northern and eastern parts and scarce in the southern and western areas. The distribution of the population in the study region is as follows.

 The majority of the population is concentrated in municipalities along the national, provincial and local roads from Serang to Merak through Cilegon and from Serang to Pandeglang; Table I(A)-8 POPULATION IN INDONESIA, JAVA, DKI JAKARTA, WEST JAVA AND STUDY REGION, 1961, 1971, 1980 AND 1981-84

| | Area | io di | Population Census | SI | | Resident Registration | gistration | | Household (1980) | (1980) |
|---------------------|-----------|-----------|-------------------|---------|------------------|-----------------------|-----------------|--------------------|------------------|----------|
| | (km) | 1961 | 1971 | 1980 | 1981 | 1982 | 1983 | 198¢ | Number | Size /4 |
| (1) Indonesia | 1,919,443 | | 119,208,229 | | 150, 934, 000 /2 | 1.1.1.1.1 | 158,083,000/2 | 2 161,580,000 /2 3 | 30,263,000/3 | 4.87 |
| | 132,187 | w | 76,086,327 | a | 93,107,000/2 | 94,981,000/2 | 96, 893, 000 /2 | 98, 712, 000 /2 | 19, 622, 000 /3 | |
| DKI Jakarta | 590 | 2,906,533 | 4,576,009 | | 6, 555, 954 /2 | | 7,250,100/2 | 7,500,100/2 | 1,164,000/3 | |
| West Java | 4 | 17, | 21, 623, 529 | N | 27,452,724 | 1.1 | 27,917,771 | 28,227,438 | 6, 100, 713 | 4.50 |
| (5) Study Region /1 | 4,512 | à | 1,432,095 | | 1,819,869 | 1,831,228 | 1,857,651 | 1,875,692 | 375, 139 | 4.81 |
| Serang | 1,876 | | | ч, | 1,119,475 | 1,126,594 | 1,140,538 | | 231,022 | |
| Pandeglang | 2,636 | 440,213 | 572,628 | 694,759 | 700, 394 | 704, 634 | 717,113 | . : * | 144, 117 | - |
| | | | | | | | | | | |
| (I) × 100 | 0.24 | 1.20 | | 1.22 | 1.21 | 1.19 | 1.18 | 1.16 | 1.24 | 9 6 |
| 100. | 3.41 | 1.84 | 1.88 | 1.98 | 1.95 | 1.93 | 1.92 | 1.90 | 1-91 | 103 |
| x 100 | 764.75 | 39.92 | | 27.74 | 27.76 | 27.27 | 25.62 | 25.01 | 32.23 | 99 99 |
| x 100 | 9.75 | 6.59 | 6.62 | 6.57 | 6.63 | 6.61 | - - | 22 | נו ד ע | 107 |

Remarks: // Excluding the krakatau Islands. /2 Projected figures based on the Population Census 1980. /3 Round figures /4 Average Household Size

Sources: BPS.;

Kantor Statistik Propinsi D.K.I. Jakarta; Kantor Statistik Propinsi Jawa Barat.

- Agglomerated populations are found in the towns located in the coastal areas (Banten, Labuan, Carita, Anyer, etc.) equipped with some harbor or tourism facilities;
- 3) In the southern and western parts as well as outskirts of Rawa Danau on the caldera of the study region covered with mountains, forests and swamps, the number of inhabitants is very few.

The population density in the study region was about 416 persons/km² in 1984. This figure is lower than those in the Province (610) and the whole of Java Island (747).

The population density in Kab. Serang in 1984 was 617 persons/km^2 and that in Kab. Pandeglang 273 persons/km, as shown in Table I(A)-9. Figures in this table indicate an accelerated urbanization in the study region, especially around five cities: Serang, Pandeglang, Banten, Merak Cilegon.

Table I(A)-9 also shows the population distribution ratio between urban and rural areas. The population in the urban area was 10.4% in the whole study region in 1980. These percentages are fairly lower than the national average of 22.4%. In the West Java Province, this figure is about 21.0%.

The average growth rate based on the resident registration in the study region was 1.01% per annum during the period from 1981 to 1984, implying an outflow of the population to outside. This percentage is fairly small compared with 4.59% of DKI Jakarta, 1.9% of Java and 2.30% of the country.

Table I(A)-10 shows the population by age and sex groups in the study region, West Java Province and Indonesia. In the study region, the population under 15 years of age accounts for 45.0% of the total, i.e. the average age is low compared with those of West Java Province (42.2%) and Indonesia (40.8%).

Table I(A)-9 POPULATION GROWTH RATE, DENSITY IN INDONESIA, JAVA, DKI JAKARTA, WEST JAVA AND STUDY REGION, 1961, 1971 AND 1980-84

| | с С L | Growth Rate (%) | 8) | | | Popul | Population Density | nsity | · | | Urban Population | ation (1980) |
|--------------------|-------------|-----------------|---------|-------|-------|--------|--------------------|---------|--------|--------|------------------|---------------------|
| | 1961-71 | 08-1761 | 1981~84 | 1961 | 1971 | 1980 | 1981 | 1982 | 1983 | 1984 | Number | Ratio (%) <u>/3</u> |
| (1) Indonesia | 2.10 | | | 50 | 62 | 77 | 52 | 80 | 82 | 84 | 32,845,769 | 22.4 |
| (2) Java | 1.19 | 2.02 | | 476 | 576 | 690 | 704 | 6T2 | 733 | 747 | | NA |
| | 4.46 | | | 5,039 | 7,761 | 11,023 | 11,111 | 11, 382 | 12,288 | 12,712 | 6, 503, 227 | 100.0 |
| (4) West Java | 2.09 | | | 380 | 467 | 593 | - | 598 | 603 | 610 | 5, 770, 868 | 21.0 |
| (5) Study Region | 2.13 | | | 257 | 317 | 400 | 403 | 406 | 412 | 416 | 187,245 | 10.4 |
| Serang | 1.80 | | | 384 | 458 | 1263 | 597 | 601 | 608 | 617 | 139,984 | 12.6 |
| Pandeglang | 2.69 | | 0.88/2 | 167 | 217 | 264 | 265 | 267 | 272 | 273 | 47,261 | 6.8 |
| | | | | | | | | | | | | |
| (1)/ | TOT | 112 | 44 | 514 | 511 | 519 | 510 | 508 | 502 | 495 | 0.57 | 46.4 |
| (5) / (2) | 179 | | 51 | 54 | 55 | 58 | 57 | 56 | 56 | 56 | | I |
| (2) | 48 | 66 | 22 | S. | দ | 4 | 4 | 4 | m | m | 2.88 | 10.4 |
| 27 (2) / (4) × 100 | 102 | | 109 | 68 | 68 | 67 | 68 | 68 | 68 | 89 | 3.24 | 49.5 |

Remarks: <u>/1</u>Based on the projection figures. <u>/2</u>Based on the regident registrations. <u>/3</u>Distribution ratio of the urban population to the total population.

Sources: BPS.;

Kantor Statistik Propinsi D.K.I. Jakarta; Kantor Statistik Propinsi Jawa Barat.

| | Male | 2 | Female | | Total | |
|---|------------------------------|---|------------|-----------------|-------------|--------|
| ۲. ۱۹ ۵۰ ۲۹ and 19 1/10 at all and all an interference approximation of a first section of a first section of a | Number | 8 | Number | ę | Number | 8 |
| | | | | | | - - |
| (1) Indonesia | | | 그는 가운 옷을 들 | and Araataan | | |
| 0 - 4 | 10,555,575 | 14.4 | 10,163,963 | 13.7 | 20,719,538 | 14. |
| 5 → 9 | 10,817,738 | 14.8 | 10,410,441 | 14.0 | 21,228,179 | 14. |
| 10 - 14 | 9,403,612 | 12.8 | 8,765,011 | 11.8 | 18,168,623 | 12. |
| 15 - 24 | 13,433,455 | 18.3 | 15,027,980 | 20.3 | 28,461,435 | 19. |
| 25 - 49 | 20,973,173 | 28.6 | 21,408,258 | 28.9 | 42,381,431 | 28. |
| 50 & Over | 8,051,397 | 11.0 | 8,321,220 | 11.2 | 16,372,617 | 11. |
| Total | 73,234,950 | 100.0 | 74,096,873 | 100.0 | 147,331,823 | 100. |
| · | | et et de la companya | | | | |
| 2) DKI Jakarta | | | | | | · · . |
| 0 - 4 | 470,741 | 14.3 | 447,471 | 14.0 | 918,212 | 14. |
| 5 - 9 | 414,886 | 12.6 | 403,317 | 12.6 | 818,203 | 12. |
| 10 - 14 | 365,561 | 11.1 | 372,949 | 11.7 | 738,510 | 11. |
| 15 - 24 | 752,039 | 22.9 | 847,911 | 26.5 | 1,599,950 | 24. |
| 25 - 49 | 1,027,566 | 31.3 | 906,853 | 28.3 | 1,934,419 | 29. |
| 50 & Over | 250,807 | 7.6 | 220,553 | 6.9 | 471,360 | 7. |
| Total | 3,281,600 | 100.0 | 3,199,054 | 100.0 | 6,480,654 | 100. |
| | | | | | | |
| (3) West Java Provinc | e | n La serie de la serie de la La serie de la s | | | | 1.1 |
| 0 - 4 | 2,081,578 | 15.2 | 2,021,354 | 14.7 | 4,102,932 | 14. |
| 5 - 9 | 2,099,242 | 15.4 | 2,029,619 | 14.7 | 4,128,861 | 15. |
| 10 - 14 | 1,741,377 | 12.7 | 1,602,200 | 11.6 | 3,343,577 | 12. |
| 15 - 24 | 2,317,126 | 17.0 | 2,738,921 | 19.9 | 5,056,047 | 18. |
| 25 - 49 | 3,951,788 | 28.9 | 3,973,987 | 28.8 | 7,925,775 | 28. |
| 50 & Over | 1,473,458 | 10.8 | 1,419,190 | 10.3 | 2,892,648 | 10. |
| Total | 13,664,569 | 100.0 | 13,785,271 | 100.0 | 27,449,840 | 100. |
| | | | 2011001012 | | 277127010 | |
| 4) Study Region | and the second second second | | | : | | |
| 0 - 4 | 150,918 | 16.7 | 145,555 | 16.2 | 296,473 | 16. |
| 5 - 9 | 148,356 | 16.4 | 142,482 | 15.8 | 290,838 | 16 |
| 10 - 14 | 119,880 | 13.3 | 103,740 | 11.5 | 223,620 | 12. |
| 15 - 24 | 142,802 | 15.8 | 168,957 | 18.8 | 311,759 | 17. |
| 15 - 24 25 - 49 | 253,860 | 28.1 | 261,118 | 29:0 | | 28 |
| 50 & Over | .86,137 | | | | 514,978 | |
| | | 9.6 | 79,140 | 8.8 | 165,277 | 9. |
| Total | 901,953 | 100.0 | 900,992 | 100.0 | 1,802,945 | 100. |

Table I(A)-10 POPULATION DISTRIBUTION BY AGE AND SEX IN 1980

Sources: BPS.;

Kantor Statistik Provinsi DKI Jakarta: Kantor Statistik Provinsi Jawa Barat.

After independence, the transmigration program was carried out by the Government under the responsibility of Department of Manpower, Transmigration and Cooperation. Since the reorganization in April 1983, the Department of Transmigration undertakes this program.

The objectives of transmigration programs are the followings:

- 1) enhancing level of living,
- 2) regional development,
- 3) balanced population distribution,
- 4) development equity,
- 5) utilization of natural resources and human resources,
- 6) national unity, and
- 7) strengthening of security and defense.

Java Island is the biggest producer of migrants. But it differs province by province as shown in Table I(A)-11. Among five provinces, the net annual migration in two provinces: Central Java and East Java indicate minuses, i.e. -0.7% to the total population for the former and -0.26% for the latter, respectively. This means that in those provinces, there were more flowing-out people than those of flowing in. In case of West Java, the net migration indicates 0.03%. This might be due to the remarkable expansion of the urban population in the northern part of the region, even though rural areas of the province are producing many migrants to the neighbouring provinces and outer islands.

Number of households settled in outer islands from West Java Province amounted to 29,528 in 1984/85, corresponding to 85,343 transmigrants. Their destination provinces in the same period are Sumatra (55.9%), Kalimantan (36.8%), Sulawesi (4.7%) and others (2.6%), as shown in Table I(A)-12.

| ESTIMATES OF NET MIGRATION |
|--------------------------------------|
| AND NATURAL INCREASE, 1971-1980 |
| 이는 요즘 것 같은 것을 것을 것을 수 없는 것을 것을 수 없다. |

| | | | Unit: % per Annum |
|--|--|--|--|
| Province/Island | Growth Rate | Net Migration | Natural Increase |
| Java D.K.I Jakarta *West Java Central Java D.I Yogyakarta East Java | 2.04 3.93 2.66 1.64 1.10 1.49 | $\begin{array}{r} -0.14 \\ 1.15 \\ 0.03 \\ -0.57 \\ 0.15 \\ -0.26 \end{array}$ | 2.18 2.78 2.63 2.21 0.95 1.75 |
| Sumatra | 3.34 | 0.76 | 2.58 |
| Kalimantan | 2,99 | 0.61 | 2.38 |
| Sulawesi | 2.20 | 0.11 | 2.09 |
| Eastern Islands | 2.05 | 0.09 | 1.99 |
| Indonesia Total | 2.33 | 0.00 | 2.33 |

Sources: Indonesia Policies and Prospects for Economic Growth and Transformation, Document of World Bank, April 26, 1984.

| | | | | General Transmigration | nsmigratio | c | | | Spontanous | anous | | |
|-----------------------------|---------------------|--------------------------------|--------------------|--------------------------------|--------------------|--------------------------------|--------------------|--------------------------------|--------------------|--------------------------------|--------------------|--------------------------------|
| Original | | | | Settled Province | rovince | | | | Transmi | Transmigration | É. | Total |
| Kabutaten | Sul | Sumatra | Kali | Kalimantan | Other | Other Frovinces | Sub-total | cotal | | | | |
| and Region | No. of famillies | No. of transmigrants (%) | No. of families | No. of transmigrants (%) |
| Serang | 116 | 511 (9.9) | 12 | | 1 | | 128 | 562 (100.0) | 1,293 | 3, 492 | 1, 421 | 4, 054 |
| Pandeglang | 140 | 655 (65.9) | 04 | 313 (34.1) | ł | 1 | 210 | 918 (0.001) | 526 | 1,349 | 736 | 2,267 |
| Study Region | 256 | 1,116 (75.4) | 82 | 364 (24.6) | I | 1 | 338 | 1,480 (100.D) | 1, 819 | 4,841 | 2,157 | 6, 321 |
| West Java Province Total | 3, 668 | 15,615 (55.9) | 2,404 | 10,302 (36.9) | 5:28 | 2,039 (7.3) | 6, 500 | 27,956 (100.0) | 22,928 | 57,387 | 29, 528 | 85, 343 |

Jawa Barat Dalam Angka 1984; Biro Pusat Statistik. Sources:

A.31

.

Numbers of settled households and transmigrants from the study region were 2,157 and 6,321 in 1984/85. Transmigrants of the region are all settled in two provinces: Sumatra (75.4%) and Kalimantan (24.6%). Most of transmigrants entered into Aceh (41.9%), south Sumatra (18.2%) and Kalimantan Barat (17.7%). Based on the data and information obtained from transmigration offices in Serang and Pandeglang, transmigration massproducing areas in the study region are Kec. Padarincang, Cinangka, Mancak and Pabuaran (adjacent areas to Rawa Danau) in Kab. Serang and central Kecamatans of Kab. Pandeglang including Pagelaran, Saketi, Cigeulis (Panimbang), Munjul (Angsana) and Jiput.

In these reas, arable lands are strictly limited because of the existence of natural reserve areas and national and private plantations. As the situation now stands, the transmigration from these areas has to be intensified in proportion to population growth, if the Government will not change the present land use policy and agro- and aquaindustries which absorb much the labour force will not be actively introduced there [see Table I(A)-13].

2.2.3 GRDP and regional income

The figures GRDP (Gross Regional Domestic Product) and regional income of the study region are not available. Therefore, Table I(A)-14 shows the GRDP of Banten Region, consisting of Kab. Serang, Kab. Pandeglang and Kab. Lebak, in comparison with GRDP of West Java Province and DKI Jakarta and GDP of Indonesia.

GRDP of Banten Region amounted to Rp. 781 billion in 1983 at current prices. The GRDP average growth rates of Banten Region at constant 1975 prices was 8.7% per annum during the period from 1978 to 1983. This figure is higher than 7.8% of West Java Province and 6.1% of Indonesia, but lower than 11.3% of DKI Jakarta.

| Kabupaten/Year | 1972/73 | 1972/73 1973/74 1974/75 1975/76 | 1974/75 | 1975/76 | 1976/77 | 1977/78 | 3 1978/79 | 1979/80 | 19/0861 | 1981/82 | 1982/83 | 1983/84 | 1984/85 | 1985/86 |
|---------------------------------|---------|---------------------------------|---------|---------|---------------|---------|-----------|-------------|---------|----------------------------|-------------|---------|---------------|---------|
| Serand | | | | | | | | | | | | | | |
| - Number of | . • | • | , , | | ı | | 1 | - 50 | 107 | 186 | 286 | 193 | 128 | 1,275 |
| families settled - Number of | | , | | | | ŧ | , | 258 | 452 | 764 | 1,338 | 828 | 562 | 5,261 |
| transmigrants | | | | | | | | | | | • | • | | • |
| Pandeglang | | | | | - | | | | | • | | | | |
| - Number of | 82 | 2 120 | 0 212 | 37 | 7 32 | | 21 68 | 45 | 421 | 555 | 627 | 238 | a 210 | 1,266 |
| families settled | 760 | 0 0 1 | | | i v u r | | | | ÷ . | | | C C C T | 010 | сст |
| - Number ol transmigrants | 0 | | | | | F07 | | 202 | TO / 1 | 50412 | 201 17 | 1002 | 0 -1 -1 | 701 10 |
| | | | | | | | | | | | | | · | |
| Study Region /1 | | | | · | · | | | | ÷ | | | Ţ | | |
| - NUMBEY OI familias sottlad | 7α | 720 | 217 0 | رت 1 | 1 32 | | 29 TZ | 0 2 2 | 870 | T T T T T T T T T T | າ 1 N | 101 | 55U,1 | 1, 420 |
| - Number of | 375 | 5 535 | 5 939 | 9 170 | 0 156 | 6 104 | 4 297 | 462 | 2,213 | 3,217 | 4,107 | 1,860 | 4,500 | 8,550 |
| transmigrants | | | | | | | | | | . • | • . | | | |

A.33

Source: Data from Kab. Serang and Pandeglang Transmigration Offices.

Table I(A)-14 GDP OF INDONESIA AND GRDP OF DKI JAKARTA, WEST JAVA AND BANTEN REGION AT CURRENT PRICES, 1975 - 83

| | 73,698,000 7,192,670 9,185,893 781,334 * NA | 1.00 * 10.85 * 8.50 * |
|-----------|---|--|
| 1982 1983 | 59, 633, 000 73, 5, 920, 673 7, 7, 757, 757 9, 502, 677 9, | 0 8 6 8 4 4 4 9 9 4 |
| | 54,027,000 59,6 5,190,211 5,9 6,938,506 7,7 432,360 5 | 0.80 8.33 6.23 |
| 1961 | | 0.70 7.99 5.64 |
| 1980 | ູ່ ຕູ່ ຊີບໍ່ | 6.28 6.28 |
| 1979 | 32,025,0 2,884,6 4,003,6 251,2 | |
| 1978 | 22, 746, 000 1, 984, 398 2, 994, 092 195, 237 NA | 6.52 6.52 |
| 1977 | 19,033,000 1,703,348 2,412,476 159,353 159,353 | 0.84 9.36 6.61 |
| 1976 | 15,467,000 1,390,288 2,127,110 142,294 NA | C.92 10.23 6.69 |
| 1975 | 1 12, 643, 000 1, 036, 914 1, 720, 787 114, 294 NA | 11.02 |
| | <pre>(1) Indonesia /1 12,643,000 (2) D.K.I Jakarta 1,036,914 (3) West Java 1,720,787 (4) Banten 114,294 (5) Study Region NA</pre> | (4) /(1) × 100 (4) /(2) × 100 (4) /(3) × 100 |

Remark: <u>/1</u>Round figures

Pendapatan Regional DKI Jakarta 1980 - 83; Produk Domestik Regional Bruto menurut Wilayah Pembangunan Propinsi DT. I. Jawa Barat 1979 Pendapatan Regional Propinsi Di Indonesia 1975 - 1982; Sources: Statistik Indonesia 1985;

- 1983

* Updated figures

Table I(A)-15 indicates the share of GRDP by industrial origin for Banten Region. In Banten Region, the share of agricultural sector shows a decreasing tendency from 57.7% in 1973 to 31.9% in 1983. This rate is much higher than 24.2% of West Java and 24.0% of the country. Such decreasing tendency of the GRDP share in agricultural sector in Banten Region implies the reducing labor force in this sector and the ruralurban migration.

The per capita income, which means GRDP per capita here, for Banten Region and Kab. Pandeglang was respectively Rp. 225,691 and Rp. 181,552 in 1983 at current prices [see Table I(A)-16]. These amounts are smaller than Rp. 311,932 of provincial level and Rp. 466,198 of national level, and remarkably small compared with Rp. 1,008,902 of DKI Jakarta.

The average annual growth rates of the per capita income at current prices were 20.7% for Banten Region and 12.4% for Pandeglang during the period form 1978 to 1983. The rate of Banten Region, or 20.7%, is relatively high compared to 23.6% of the whole country, 21.9% of the West Java Province and 25% of DKI Jakarta. In view of these rates, 12.4% of Kab. Pandeglang is still far behind the national and regional levels.

Such a high growth of income in the Banten Region seems to be mainly owing to the boosting effects of industrialization in the northwestern part of the study region.

DISTRIBUTION OF GDP AND GRDP BY INDUSTRIAL ORIGIN IN INDONESIA, DKI JAKARTA, WEST JAVA AND BANTEN REGION AT CURRENT PRICES, 1973, 1978 AND 1983 Table I(A)-15

100.0 1983 Unit: 100.0 Banten 1978 100.0 0 H 0 V V V 0 V W W 4 8 V V 4 4 6 6 8 4 8 57.8 1973 100.0 ин 4 № ∞ ч ∞ О № ч и 0 @ 4 И 4 ® О О 4 4 И 4 0 И 1983 West Java 31.7 10.4 10.4 23.8 23.8 4.0 9.9 9.7 100.0 1978 100.0 1973 18.6 25.4 15.2 15.5 1 4.1 9.0 100.0 1983 DKI Jakarta 2.6 100:0 1978 2.6 100°0 1973 100.00T 1983 Indonesia 100.0 1978 100.0 1973 Transport & Communication Electricity, Gas & Water Ownership of Dwelling Public Administration Mining & Quarrying Banking & Finance Other Services Manufacturing Construction Agriculture GDP/GRDP Trade

Sources: Statistik Indonesia 1985;

Pendapatan Regional Propinsi DKI Jakarta 1969 - 74, 1973 - 78, 1980 - 83; Produk Domestik Regional Bruto Propinsi Jawa Barat 1973 - 1979; Pendapatan Regional Propinsi Di Indonesia 1975 - 82;

Produk Domestik Regional Bruto menurut Wilayah Pembangunan Propinsi DT. I. Jawa Barat 1979

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GDP PER CAPITA OF INDONESIA AND GRDP PER CAPITA OF DKI JAKARTA, WEST JAVA AND BANTEN REGION AT CURRENT PRICES, 1973 - 83 Table I(A)-16

| Unit: Rp. | 1983 | 466,198 1,008,902 311,732 225,691 NA NA 181,552 181,552 | 48.4 22.4 72.4 |
|-----------|------|---|--|
| | 1982 | 380,049 858,106 270,379 193,835 NA NA NA 160,922 | 51.0 22.6 71.7 |
| | 1981 | 357,951 780,366 248,342 170,973 NA NA 142,637 | 47.8 21.9 68.8 |
| - | 1980 | 308,129 624,747 624,747 207,724 129,288 NA NA 139,611 | 42.0 20.7 62.2 |
| | 1979 | 222, 330 462, 307 150, 299 103, 970 NA NA 107, 070 | 46.8 22.5 69.2 |
| | 1978 | 161,692 330,529 115,932 88,074 NA NA 101,095 | 54.5 26.6 76.0 |
| | 1977 | 138, 536 293, 004 95, 295 73, 025 NA NA | 52.7 24.9 76.6 |
| | 1976 | 115,275 250,380 86,137 66,723 NA NA NA | 57.9 26.6 77.5 |
| | 1975 | 96, 483 195, 892 71, 308 54, 303 NA NA | 56.3 27.7 76.2 |
| | 1974 | 83, 673 179, 880 59, 751 44, 666 NA NA | 53.4 24.8 74.8 |
| | 1973 | 54,031 111,772 44,833 42,060 NA NA | 77.8 37.6 93.8 |
| | | (1) Indonesia (2) DKI Jakarta (3) West Java (4) Banten (5) Study Region (5) Study Region Pandeglang | (4) /(1) x 100 (4) /(2) x 100 (4) /(3) x 100 (4) /(3) x 100 |

Sources: Statistik Indonesia 1985;

Pendapatan Regional Propinsi Di Indonesia 1975 - 1982; Pendapatan Regional DKI Jakarta 1980 - 83;

Penjelasan bupati Kepala Daerah Tingkat II Pandeglang Mengenai Penyelengaraan Pemerintahan Dan Pembangunan Produk Domestik Regional Bruto menurut Wilayah Pembangunan Propinsi DT. I. Jawa Barat 1979 - 1983; Di Kabupaten Dati II Pandeglang Sampai Tahun III Pelita IV.

2.2.4 Land use and land tenure system

1) Land use

Based on the land use map prepared by BAPPEDA TK. I, Jawa Barat in 1982 and the latest statistics available in the Kabupaten Offices of Serang and Pandeglang, areal distribution of land use patterns by Kecamatan within the study region was examined.

Out of the study region of $4,520 \text{ km}^2$, a total of 2,477.4 km² (54.8%) is used for agricultural purpose at present, which comprises 673.4 km² (14,9%) for irrigated paddy fields, 426.6 km² (9.4%) for rainfed paddy fields, 1,236.3 km² (27.4%) for upland and mixed crop fields, 141.1 km² (3.1%) for plantation, as shown in the Table I(A)-17.

In Table I(A)-17, a distinct difference in land use can be observed between two Kabupatens Serang and Pandeglang of the Study region. Reflecting the uneven population distribution and socio-economic activities of the region, the share of lands for agricultural and residence and construction uses in Kab. Serang accounts for about 70% of the total area, whereas more than 40% of lands in Kab. Pandeglang are covered with forest, plantation and grass land.

The features of the land use of the region are shown in Fig. I(A)-2.

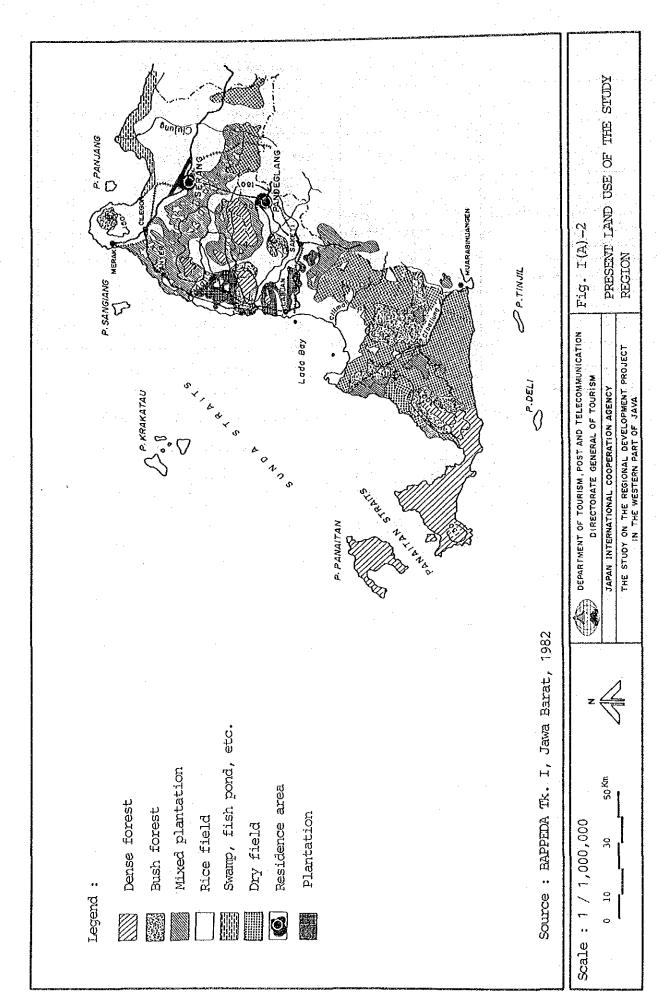
The northern parts of the region along the coast are mostly covered with swamps and used for fish pond (hatchery) and others. The dense forest and the bushes forest areas are located in the mountainous areas and the western parts of the region.

| Land Use | Serar | ng | Pandeg. | Lang | Study Rec | jion |
|-----------------------------------|---------|---------|---------|---------|-----------------|---------|
| | km2 | (%) | km2 | (%) | km2 | (%) |
| | | | | | | |
| - Irrigated paddy field | 381.2 | (20.3) | 292.2 | (11.2) | 673.4 | (14.9) |
| - Rain-fed paddy field | 240.3 | (12.8) | 186.3 | (7.1) | 426.6 | (9.4) |
| - Arable land | 675.4 | (36.0) | 560.9 | (21.5) | 1,236.3 | (27.4) |
| - Plantation | 8.0 | (0.4) | 133.1 | (5.1) | 141.1 | (3.1) |
| - Residence and construction area | 246.5 | (13.1) | 109.3 | (4.2) | 355.8 | (7.9) |
| - Grass land | 9.6 | (0.5) | 113.2 | (1 3) | 122.8 | 12 71 |
| | | | | (4.3) | | (2.7) |
| - Forests | 83.1 | (4.4) | 845.3 | (32.4) | 928.4 | (20.5) |
| - others | 231.9 | (12.4) | 368.7 | (14.1) | 635.6 <u>/1</u> | (14.1) |
| | | | | | | |
| Total | 1,876.0 | (100.0) | 2,609.0 | (100.0) | 4,520.0 | (100.0) |

Table I(A)-17 LAND USE OF THE STUDY REGION

Remark: /1Krakatau Islands (35 km2) are included in "Others".

Sources: Kabupaten Daerah Tingkat II Serang dalam Tiga Pelita, Pemerintah Kab. Daerah Tingkat II Serang, 1985; Penjelasan Bupati Kepala Daerah Tingkat II Pandeglang, Mengenai Penyelenggaraan Pemerintah dan Pembangunan di Kab. Dati II sampai Tahun III Pelita IV, Pemerintah Kab. Daerah Tingkat II Pandeglang, 1986.



The northern and central plain areas of the region are used for the rice fields, and scattered rice field areas are seen in the mixed plantation area in the northern parts of the region. Other lands used for the mixed plantation are located in the central and southern parts of the region.

The lands in the central west parts of the region are used for plantation. Unirrigated fields are located in the hilly areas of the southern parts and the northern parts of the region.

2) Land tenure system

Concerning the land ownership, the Agrarian Law is presently enforced. Besides the Agrarian Law, the Adat Law is prevailing as long as not contradicting with the Agrarian Law.

The Agrarian Law has been enforced since 1960, replacing the Adat Law. Therefore, some of the land, mostly land for husbandry and fishery use managed by villagers, are still under the Adat Law.

Under the Adat Law the regulations concerning the land vary for each tribe according to their "adat" (traditional custom). The Agrarian Law was enforced to have uniformity on the regulations concerning the land ownership and the right of utilization of the land throughout the country.

Under the Agrarian Law, the categories of the right concerning the land ownership and the right of utilization of the land are as follows:

- (1) the right of ownership "Hak Milik"
- (2) the right of exploitation "Hak Guna-Usaha"

- (3) the right of building "Hak Guna-Bangunan"
- (4) the right of use "Hak Pakai"
- (5) the right of lease "Hak Sewa"
- (6) the right of opening-up land "Hak Membuka Tanah"
- (7) the right of collecting forest "Hak Memungut-Hasil-Hutan" product
- (8) the right to manage land "Hak Pengelolaan"

The land title (8) is basically owned by the public sector, such as the government, public enterprises, local governments, etc.

The duration of the right and remarks of each categories are as follows:

| Category | Duration of the right & remarks |
|--|---|
|) the right of ownership (Hak Milik) | The strongest land right, duration unlimited, transferable, heritable, limited to only Indonesian citizens. |
|) the right of exploitation (Hak guna-Usaha) | Duration 30 - 35 years, applicable to agriculture, husbandry and fishery, 20 years of extension can be obtained if the original use of the land is well maintained and managed, transferable, mortgaged limited to Indonesian citizens |
|) the right of building (Hak Guna-Bangunan) | Duration 20 years, can be transferred an mortgaged for loan, limited to Indonesia citizens. |
|) the right of use (Hak Pakai) | Duration 10 years, applicable to building, husbandry and fishery, applicable to Indonesian and foreign citizens. |
|) the right of lease (Hak Sewa) | Duration is decided by negotiation, applicable to Indonesian and foreign citizens. |
|) the right of opening-up land (Hak Membuka Tanah) | Duration 2 - 3 years, applicable to Indonesian citizens and national enterprises. |
|) the right of collecting forest product (Hak Memungut- Hasil-Hutan) | Limited to Indonesian citizens. |
|) the right to manage land (Hak Pengelola- an) | Applicable to the government bodies of transmigration, transportation, local government, etc. |

The land entitled "the right of use" can be lifted, if the original usage of the land is well maintained and managed, to the land entitled "the right of building" of "the right of ownership"; so as the land titled "the right of building" to the land titled "the right of ownership".

Under the Agrarian Law, the rights of usage of water and space are also dealt as follows:

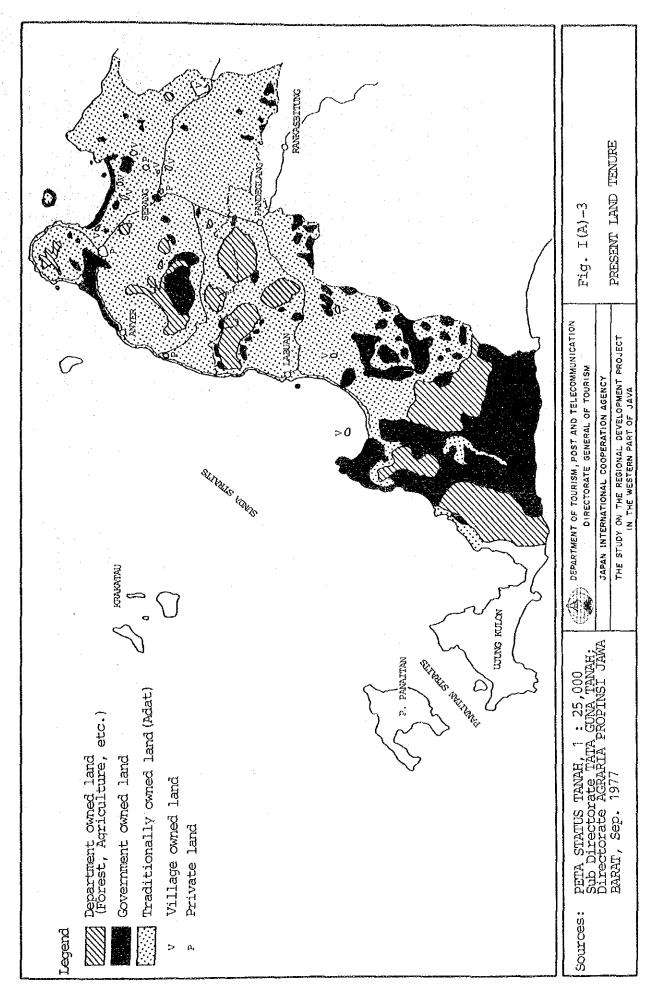
(1) the right of water use,
 (2) the right of catching fish, and
 (3) the right of spatial use.

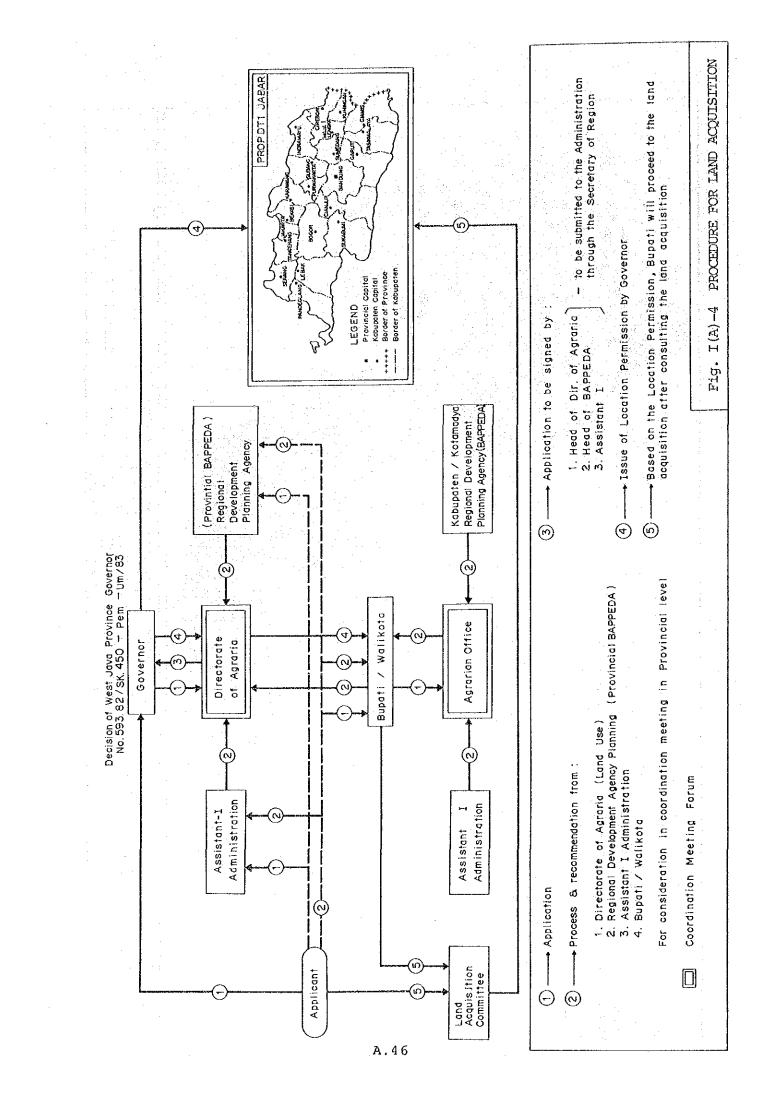
"Hak Milik Adat" (the right of traditional ownership) is under the Adat Law. In the study region, especially in the northern part of the region, there exist considerable areas classified as "Tanah Milik Adat" (traditionally owned land).

In case of "Tanah Milik Adat", if the owner is an individual and the ownership is approved by the Agrarian office, the title of land can be transferred to "Tanah Hak Milik". If the ownership belongs to a collective, it is necessary to get agreement from each member of the group when the status of the land is to be changed. However, if the government wants to use the land for the public use, the land will be automatically exploited by the government with proper compensation to the owners.

Usually, a time-consuming process is required to deal with "Tanah Milik Adat"; it is necessary to identify the ownership of the land and to pay appropriate compensation.

The general features of the land tenure in the study region is shown in Fig. I(A)-3 and the flow chart for the land acquisition procedure is shown in Fig. I(A)-4.





2.2.5 Public and commercial facilities

Cooperatives are the main vehicle of the development of economic activities and the promotion of the people's welfare. There are three types of cooperatives in the study region: KUD (village unit cooperatives), embryonic (non-KUD) cooperatives and the functional cooperatives. In Kab. Serang, the cooperatives, especially KUDs play an important role compared with those in Kab. Pandeglang. The average number of members per KUD in Kab. Serang was 7,423 in 1984, while that in Kab. Pandeglang was only 304 in 1983. Most of cooperatives are located in the Kecamatans with administrative centers; Serang and Pandeglang. Kec. As for the functional cooperatives in the study region, those of small industries are reported in Table I(A)-18. Although some cooperatives in the study region play little role in economic activities, the development of cooperatives are expected for the stable management and marketing, or leveling up of technology and productivity.

As for financial institutions, in addition to cooperatives, banks and insurance companies have their branches or local offices in urban areas such as Serang, Pandeglang, Cilegon and Merak. It is possible to exchange foreign currencies for the local one at official rates. At some hotels in the study region, it is also possible to exchange foreign currencies, but the exchange rates are not always consistent because of communication difficulties.

Some gasoline stations are located along the main roads of Serang-Cilegon-Merak and Serang-Pandeglang-Labuan. In the southern part of the study region, gasoline is sold in bottles at grocery shops.

| Commodity | Location/Kecamatan (No. of Units/Households: HH) |
|--|--|
| Kabupaten Serang | |
| | Kragilan (43)/Cilegon (39) |
| 2. Brick | Kragilan (18)/Cikeusal (24) |
| 3. Embroidery | Ciruas (26) |
| 4. Bamboo Handicraft | Ciruas (20)/Kopo (44) |
| 5. Emping Melinjo | Cilegon (704) |
| 6. Palm-Sugar | Anyer (37)/Baros (104) |
| 7. Agricultural Tools | Petir (22) |
| 8. Traditional Agricultural Tools | Baros (20)/Pulomerak (16) |
| 9. Bag | Cikande (15) |
| n an | |
| Kabupaten Pandeglang | a de francés de la companya de la c |
| 1. Emping | Jiput (4,080)/Labuan (1,775)/ Pagelaran (1,650)/Menes (430) |
| 2. Salty Fish | Panimbang (20) |
| 3. Palm-Sugar | Cigeulis (25) |
| 4. Tile & Brick | Cigeulis (25) |
| 5. Blacksmith | Cadasari (20) |
| 6. Screwpine Handicraft | Banjar (250 HH) |
| 7. Bamboo Handicraft | Pandeglang (300 HH) |
| 8. Embroidery | Banjar (24 HH) |

Table I(A)-18 COOPERATIVES OF SMALL INDUSTRIES IN THE STUDY REGION

Source: Cabang Dinas Perindustrian Kabupaten DT II Serang & Pandeglang.

2.2.6 Socio-cultural conditions

1) General features

Indonesia is a country of tremendous diversity in terms of culture and this has an important effect upon the socioeconomic structure.

In parallel with the national language of "Indonesia", three (3) main dialects are still spoken in Java, together with many sub-dialects.

Five religions are legally recognized in Indonesia, namely Islam, Christian Protestant, Christian Catholic, Hindu, and Buddhist. The religion of West Java Province is predominantly Islam, as well as that of the whole Indonesia.

The percentage of population by religion of West Java Province (in 1984) was the following: 1) Islam (98.06%), 2) Protestant (0.8%), 3) Catholic (0.44%), 4) Buddhist (0.48%), 5) Hindu (0.06%) and 6) Others (0.16%), as shown in Table I(A)-19. Figures in this table (more than 99% of Moslem) in two kabupatens concerned indicate that the study region is one of the most influenced areas by Islam in Indonesia.

Most families in the region are still keeping the traditional social customs (adat). As for the traditional mutual aid "Gotong Royong" practiced in Indonesia, it is limited in the study region to the construction and repair of the local public structure such as roads, bridges, mosque, etc. and this valuable system seems not yet fully exploited for the rural development.

| Table I (A) -19 | POPULATION BY RELIGION IN THE | OISITEN XE | N IN THE ST | UDY REGIO | N, WEST | STUDY REGION, WEST JAVA AND INDONESIA | ONESIA |
|--|--|---|--|------------------|--|---------------------------------------|------------------------|
| | Islam (%) | Chatolic P (%) | Protestant (%) | Hindu I (%) | Buddha (%) | Others (%) | Total (%) |
| Study Region | | | | | | | |
| - Kab. Serang | 1,153,102 (98.84) | 8,187 (0.70) | 2,805 (0.24) | 1 1 | 1 1 | 2,500/ <u>1</u> (0.21) | 1,166,594 (100.00) |
| - Kab. Pandeglang | 698,784 (93.04) | 15,021 (2.00) | 30,018 (4.00) | 128 (0.02) | t I | 7,082/2 (0.94) | 751,033 (100.00) |
| West Java | 27,278,621 (98.06) | 221,402 (0.80) | 122,722 (0.44) | 15,722 (0.06) | 134,601 (0.48) | 45,236 (0.16) | 27,818,304 (100.00) |
| Indonesia | (87.10) | (3.00) | (5.80) | (2.00) | (06.0) | (1.20) | (00.001) |
| Remarks: Years Study /1 Hind /2 Budd Sources: Jawa H Statis Data f Data f | of da regio du, B du, B dha b dha b dha b strical strical strical | data in each region lon in 1985, West Ja Buddha included in C included in Others. Included in Others. I Dalam Angka, 1984; al Year Book of Indo Religion Office in Religion Office in | each region are as foll 985, West Java 1984 and included in Others. Angka, 1984, Book of Indonesia, 1985 n Office in Kab. Serang e in Kab. Pandeglang. | ਘ ਜਮਨਾ | ollows: and Indonesia in 985; and and | 0 0 1 1 | |

In the area located at about 64 km on the south-east of Rangkasbitung (outside study region), there exist a land for Badui people who are still keeping their way of life by origin and to not accept any changes or renovation from outsiders. Derived from the Pajajaran-the Hindu Kingdom in the area of Bogor today, Badui people settled there after Islam infiltrated into their kingdom.

2) Education

In the West Java Province, as well as in the whole of Indonesia, the percentage of population 10 years old and over not attending school continues to decline. Accordingly, the illiteracy rate of the population aged 10 years and over has decreased from 35.16% in 1971 to 8%in 1980. The rate of decrease for rural areas (from 38.08% to 28.54%) is higher than that of the urban areas (15.44\% to 12.14\%) in the same period, as shown in Table I(A)-20.

Table I(A)-20 PERCENTAGE OF ILLITERATE POPULATION AGED 10 YEARS AND OVER IN INDONESIA AND WEST JAVA PROVINCE

| Region | Urban | | Rural | | Total | |
|-----------|-------|-------|-------|-------|-------|-------|
| | 1971 | 1980 | 1971 | 1980 | 1971 | 1980 |
| Indonesia | 21.67 | 14.47 | 43,03 | 33,15 | 39.07 | 28.84 |
| West Java | 15.44 | 12.14 | 38.08 | 28.54 | 35.16 | 24.98 |

Sources: Welfare indicators, 1983;

Population of West Java, Results of the 1980; Population census, Central Bureau of Statistics; Population of West Java 1971. The enrollment ratio of the primary school in the Province has increased from 55.63% in 1971 to 82.40% in 1980. Table I(A)-21 shows the number of elementary school children (7 - 12 years old) and illiteracy in the study region, West Java Province and Indonesia. The rate of children currently in elementary school in the region was 81.47% in 1980. This percentage is below than that of West Java Province (83.5%).

The illiterate ratio of the population (10 years old) in the study region accounted for 26.22% in 1980, while that of West Java Province was 24.98%. It is noticed that the illiterate ratio is small in the urban area, as shown in percentage of Serang (8.18%) and Pandeglang (5.49%).

It may suggest that the low education level in the rural area is basically due to the family economic condition which generally obliges them to the least expenses for education and medical cares.

3) Sanitation and health

Table I(A) - 22 shows the number of major health facilities and the rates of population to their number in Kabupatens concerned and West Java Province. The number of public (state and private) and give birth hospitals in West Java Province is 104 with the bed capacity of 10,301 in 1984.

In the study region, there exist 5 public and give birth hospitals. The total number of beds of those hospitals amount to 339, corresponding to 5,533 persons for one bed. From this table, it can be said that the number of health facilities and doctors are short in both Kabupatens Serang and Pandeglang and uneven distribution of basic public services favors urban dwellers. Table I(A)-21 NUMBER OF ELEMENTARY SCHOOL CHILDREN AND ILLITERATE POPULATION IN THE STUDY REGION, WEST JAVA AND INDONESIA

| | | | О Ц | pulation 7 | Population 7-12 years (%) | | | | Illiterate Population | Population |
|-------------------|------------|----------|---------------------|------------|---------------------------|----------|------------------------------------|----------|-----------------------|------------------|
| | Total | | Currently in school | school | No longer in school | 1 school | Never attended school 10 years old | d school | 10 years old | di ^{ce} |
| Study Region | | | | | | | | | | |
| - Kab. Pandeglang | 148,860 | (100.00) | 117,666 | (79.04) | 9,345 | (6.28) | 21,849 | (14.68) | 105, 124 | 22.89 |
| - Kab. Serang | 206, 089 | (100.00) | 171,529 | (83.23) | 10,385 | (5.04) | 24,175 | (11.73) | 209, 623 | 28.29 |
| West Java | 4,811,272 | (100.00) | 3,996,313 | (83.06) | 257,248 | (5-35) | 557,711 | (11-59) | 4,774,318 | 24.98 |
| Indonesia | 24,291,587 | (100.00) | 20,293,565 | (83.54) | | (16.5) | | | 30,054,182 | 28.80 |
| | | | | | | | | | | |

Sources: Statistik Jawa Barat Tahun, 1980; Population of Jawa Barat, 1980; Welfare Indicators, 1985.

A,53

| Region 719,115 1 (719,115) 76 67 (10,733) . Pandeelang 1,156,577 4 (239,144) 263 (4,398) 101 (11,451) . Serang 1,156,577 4 (239,144) 263 (4,398) 101 (14,732) Java 28,227,438 104 (271,418) 10,301 (2,740) 1,916 (14,732) Java 28,227,438 104 (216,447) 104,628 (1,538) 21,468 (7,498) 17, Java 28,227,438 104 (216,447) 104,628 (1,538) 21,468 (7,498) 17, Asia 160,966,732 1,273 (216,447) 104,628 (1,538) 21,468 (7,498) 17, ks: - Data not available. Figures in parentheses indicate the accomodating ratios by population. Ergures in parentheses (7,498) 17,498 (7,498) 17,498 (7,498) 17,498 (7,498) 17,498 (7,498) 17,498 (7,498) (7,498) (7,498) (7,498) (7,498) (7,498) (7,498) (7,498) | Årea | Population | Public birth h | and give Iospitals | Bed capacity hospitals | ity of tals | Public b centre & & childo | iblic health itre & mothers childclinics | Stage docto (general physician) | doctor al cian) | Nurse | Q | йіді | Midwife |
|--|---|--|--------------------|------------------------|---------------------------|--------------------|----------------------------------|--|---------------------------------------|------------------------|------------------|--------------------|--------------|------------------------|
| Yra 28,227,438 104 (271,418) 10,501 (2,740) 1,916 (14,732) 529 (53,360) - 1,097 is 160,966,732 1,273 (216,447) 104,628 (1,538) 21,488 (7,498) 17,647 (9,121) 44,651 (3,605) - Data not available. Figures in parentheses indicate the accomcdating ratios by population. Jaxa Barat Dalam Angka, 1984; Maifare Indicators, 1983; Deta from health office in Kab. Serang and pandeglang. | Study Region - Kab. Pandeglan - Kab. Serang | , L | | (719,115) (289,144) | 76 263 | (9,462) (4,398) | | (10,733) (11,451) | 27 44 | (26, 634) (26, 286) | 101 270 | (7,120) (4,284) | 24 52 | (29, 963) (22, 242) |
| ia 160,966,732 1,273 (216,447) 104,628 (1,538) 21,468 (7,498) 17,647 (9,121) 44,651 - Data not available. Figures in parentheses indicate the accomodating ratios by population. Java Barat Dalam Angka. 1984; Walfare Indicators, 1985; Data from health office in Kab. Serang and pandeglang. | | 28, 227, 438 | | (271,418) | 10,301 | (2,740) | 1,916 | (14,732) | 529 | (53, 360) | | | 1,097 | (25,731) |
| r Data Vawa Ba Welfare Data fro | Indonesía | 160,966,732 | | (216,447) | 104, 628 | (1,538) | 21,468 | (1,498) | 17,647 | (9,121) | 44,651 | (3, 605) | | |
| Ω. | Remarks: - Data Figure | not available. s in parenthese | es indice | ate the acc | pomodating | ratios k | y populat | .ion. | | | | | | |
| L | | arat Dalam Ang ¹ e Indicators, 1 | ka, 1984, 1985; | ۰ د ۱۹ ۱۹ | ç | נ ק ק | | | | | | | | |
| | 1 5 5 - | | | | 4 | | | | | | · · · | · · · · · | | |
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The morbidity rate in West Java Province was 5.7% and this figure was more than 4.08% of Java Island and 4.1% of national level. Regarding the infant mortality, the situation is actually much better than that of the preceding decade. Infant mortality rate per 1,000 persons in West Java Province decreased from 158.90 in 1971 to 130.4 in 1980. This figure in 1980 is also higher than the average of Jakarta (80.85) and whole Indonesia (108).

2.3 Production Sectors

2.3.1 Agriculture

In the study region, 262,219 households or 68.1% of the total households were engaged in the agricultural sector in 1983, which occupied 33.6% of GRDP of the three Kabupatens of Serang, Pandeglang and Lebak in Banten Region in 1984. The agricultural sector, especially the production of food crops, is the mainstay of the study region. Agriculture includes food crops, plantation crops, vegetable and fruits in this study.

1) Food crop production in the study region

Food crops in the study region are paddy (on wet land and dry land), maize, cassava, sweet potatoes, groundnuts, soyabeans and so on. The harvested area, production and yield of the principal food crops in West Java Province and the study region are given in Table I(A)-23.

| ₩₩Ŷ ^{\$} ₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩ | Serang | Pandeglang | Study Area | West Java | (C) / (D) |
|--|---------|--|---|--|--------------|
| | (A) | (B) | (C) | (D) | <u>x 100</u> |
| | | | s transformer a grander | | |
| Harvested Area (ha) | | | | | |
| Paddy | 83,441 | and the second | | and the second | 7.59 |
| Wet Land | 77,159 | | | | 7.21 |
| Dry Land | 6,282 | 12,951 | 1 C C C C C C C C C C C C C C C C C C C | | 11.84 |
| Maize | 2,291 | 4,070 | 6,361 | | 5.13 |
| Cassava | 7,956 | 5,606 | 13,562 | | 7.05 |
| Sweet Potatoes | 2,802 | 2,630 | 5,432 | 45,139 | 12.03 |
| Groundnuts | 16,773 | 1,596 | 18,369 | 82,709 | 22.21 |
| Soyabeans | 526 | 2,093 | 2,619 | 67,060 | 3.91 |
| Greenpeas | 2,744 | 749 | 3,493 | 23,415 | 14.92 |
| | · · · · | | | | · |
| Production (ton) | | | | the second second | 1 |
| Paddy | 334,354 | 267,834 | 602,188 | 8,527,634 | 7.00 |
| Wet Land | 321,124 | 239,534 | 560,658 | | 6.84 |
| Dry Land | 13,230 | 28,300 | 41,530 | 331,345 | 12.53 |
| Maize | 3,57,0 | 5,320 | 8,890 | 200,833 | 4.4 |
| Cassava | 90,035 | 71,295 | 161,330 | 2,082,390 | 7.75 |
| Sweet Potatoes | 24,465 | 24,457 | 48,922 | 396,381 | 12.34 |
| Groundnuts | 14,378 | 1,571 | 15,949 | 80,230 | 19.88 |
| Soyabeans | 374 | 1,809 | 2,183 | 52,373 | 4.1 |
| Greenpeas | 201 | 63 | 264 | 1,684 | 15,68 |
| Unit Yield (kg/ha) | | | | 9 - A | |
| Paddy | 4,007 | 3,873 | 3,946 | 4,237 | 93.14 |
| Wet Land | 4,162 | 4,262 | 4,204 | 4,430 | 94.90 |
| Dry Land | 2,106 | 2,185 | 2,159 | 2,040 | 105.85 |
| Maize | 1,558 | 1,307 | 1,398 | 1,620 | 86.29 |
| Cassava | 11,317 | 12,718 | 11,896 | 10,826 | 109.88 |
| Sweet Potatoes | 8,731 | 9,299 | 9,006 | 8,781 | 102.50 |
| Groundnuts | 857 | 984 | 868 | 970 | 89.5 |
| Soyabeans | 711 | 864 | 834 | 781 | 106.73 |
| Greenpeas | 73 | 84 | 76 | . 72 | 105.0 |

Table I(A)-23 HARVESTED AREA, PRODUCTION AND UNIT YIELD OF FOOD CROPS IN THE STUDY REGION AND WEST JAVA IN 1984

Source: Jawa Barat Dalam Angka 1984.

The principal food crops, their productions and production ratios in 1984 in the study region are as shown in the following table.

|) |
|---|
| • |
| |
| |
| |
| |
| |
| |
| |

Considering the correlation between the population ratio (6 - 7%) of the study region in West Java and the production ratios of each crop in the above table, the study region is supported to be on the whole self-sufficient.

In 1985, the production of paddy (wet land) was 390,145 tons in Kab. Serang and 311,753 tons in Kab. Pandeglang, respectively. Table I(A)-24 shows the production of paddy by Kecamatan in the study region. The northeastern parts of Kab. Serang, such as Kec. Tirtayasa, Ciruas, Pontang, Kasemen, Cikande, Kragilan, etc. are the producing centers of paddy, while in Kab. Pandeglang, Kec. Cimanuk, Pagelaran, Cigeulis (especially in the flooded area), etc. are noted for the paddy producing areas. The production of paddy (dry land) was respectively 12,339 tons in Kab. Serang and 24,560 tons in Kab. Pandeglang. It is active in Kec. Ciomas of Kab. Serang and Kec. Cadasari, Cigeulis, Cibaliung, Cimanggu, etc. of Kab. Pandeglang.

| (1) (2) (3) (1) (2) (3) Kabupaten Sarang 1. Serang 2.635 4.430 11.673 243 2.040 4 2. Kasemen 5.376 4.450 23.932 - - - 3. Taktakan 964 4.260 4.107 85 2.341 1 4. Waringinkurung 398 4.230 1.664 278 2.115 5 5. Kramatwatu 2.786 4.320 8.018 144 2.167 3 8. Pulomerak 1.720 4.280 7.362 90 2.211 1 9. Anyer 1.989 4.330 8.612 370 2.903 7 10. Mancak 1.656 4.300 7.11 187 2.112 3 11. Cinangka 1.783 4.550 8.113 302 2.103 6 12. Cinansa 1.630 4.750 1.3023 740 2.253 1.6 12. Cinansa 1.652 < | Kooamatan | Dor | ddy (Wet) | <u></u> | Pad | dy (Dry) | |
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| 17. Cikeusal 2,889 4,570 13,203 740 2,253 1,6 18. Pamarayan 4,879 4,540 22,151 141 2,404 3 19. Kopo 2,725 4,600 12,535 154 2,008 3 20. Walantaka 3,469 4,660 16,235 358 2,360 8 21. Ciruas 6,805 4,490 30,554 - - - 22. Kragilan 5,302 4,470 23,700 95 2,124 2 23. Cikande 5,323 4,570 24,326 25 2,220 - 24. Pontang 5,755 4,480 25,782 - - - 25. Tirtayasa 7,225 4,470 32,296 - - - Total (or Average) 87,158 4,443 387,250 5,719 2,185 12,4 Kabupaten Pandeglang 1. Pandeglang 2,216 4,818 11,207 1,914 1,684 3,2 3. Banjar 2,723 4,815 13,111 85 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>12</td></t<> | | | | | | | 12 |
| 18. Pamarayan 4,879 4,540 22,151 141 2,404 3 19. Kopo 2,725 4,600 12,535 154 2,008 3 20. Walantaka 3,469 4,680 16,235 358 2,360 8 21. Ciruas 6,805 4,490 30,554 - - - 22. Kragilan 5,302 4,470 23,700 95 2,124 2 23. Cikande 5,323 4,570 24,326 25 2,220 - - 23. Cikande 5,323 4,700 32,296 - | | • | | | | | 44 |
| 19. Kopo 2,725 4,600 12,535 154 2,008 3 20. Walantaka 3,469 4,680 16,235 358 2,360 8 21. Ciruas 6,805 4,490 30,554 - - - 22. Kragilan 5,302 4,470 23,700 95 2,124 2 23. Cikande 5,323 4,570 24,326 25 2,220 24. Pontang 5,755 4,480 25,782 - - 25. Tirtayasa 7,225 4,470 32,296 - - 26. Carenang 4,783 4,360 20,854 - - Total (or Average) 87,158 4,443 387,250 5,719 2,185 12,4 Kabupaten Pandeglang 2,216 4,818 11,207 1,914 1,684 3,2 3. Banjar 2,723 4,815 13,111 85 1,847 1 4. Cimanuk 6,980 4,901 34,209 - - - 5. Mandalawangi 2,228 4,816 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>1,66</td></t<> | | | | | | | 1,66 |
| 20. Walantaka 3,469 4,680 16,235 358 2,360 8 21. Ciruas 6,805 4,490 30,554 - - - 22. Kragilan 5,302 4,470 23,700 95 2,124 2 23. Cikande 5,323 4,570 24,326 25 2,220 - 24. Pontang 5,755 4,480 25,782 - - - 25. Tirtayasa 7,225 4,470 32,296 - - - 26. Carenang 4,783 4,360 20,854 - - - Total (or Average) 87,158 4,443 387,250 5,719 2,185 12,4 Kabupaten Pandeglang - | - | | | 1 | | | 33 |
| 21. Ciruas 6,805 4,490 30,554 - - 22. Kragilan 5,302 4,470 23,700 95 2,124 2 23. Cikande 5,323 4,570 24,326 25 2,220 24. Pontang 5,755 4,480 25,782 - - 25. Tirtayasa 7,225 4,470 32,296 - - 26. Carenang 4,783 4,360 20,854 - - Total (or Average) 87,158 4,443 387,250 5,719 2,185 12,4 Kabupaten Pandeglang 2,216 4,808 10,655 315 1,511 4 2. Cadasari 2,326 4,818 11,207 1,914 1,684 3,2 3. Banjar 2,723 4,815 13,111 85 1,847 1 4. Cimanuk 6,980 4,901 34,209 - - - 5. Mandalawangi 2,228 4,816 10,730 49 1,832 - - 7. Saketi 3,887 4,802 17,129 | | • | | | | | - 30 |
| 22. Kragilan 5,302 4,470 23,700 95 2,124 2 23. Cikande 5,323 4,570 24,326 25 2,220 24. Pontang 5,755 4,480 25,782 - - 25. Tirtayasa 7,225 4,470 32,296 - - 26. Carenang 4,783 4,360 20,854 - - 70tal (or Average) 87,158 4,443 387,250 5,719 2,185 12,4 Kabupaten Pandeglang 1. Pandeglang 2,216 4,808 10,655 315 1,511 4 2. Cadasari 2,326 4,818 11,207 1,914 1,684 3,2 3. Banjar 2,723 4,815 13,111 85 1,847 1 4. Cimanuk 6,980 4,901 34,209 - - - 5. Mandalawangi 2,228 4,816 10,730 49 1,832 6 Menes 1,827 1 7. Saketi 3,887 4,815 18,716 95 1,827 | | | | | 358 | 2,360 | 84 |
| 23. Cikande 5,323 4,570 24,326 25 2,220 24. Pontang 5,755 4,480 25,782 - - 25. Tirtayasa 7,225 4,470 32,296 - - 26. Carenang 4,783 4,360 20,854 - - Total (or Average) 87,158 4,443 387,250 5,719 2,185 12,4 Kabupaten Pandeglang 2,216 4,808 10,655 315 1,511 4 2. Cadasari 2,326 4,818 11,207 1,914 1,684 3,22 3. Banjar 2,723 4,815 13,111 85 1,847 1 4. Cimanuk 6,980 4,901 34,209 - - - 5. Mandalawangi 2,228 4,816 10,730 49 1,832 6 6. Menes 2,862 4,872 13,944 23 1,915 7 7. Saketi 3,887 4,815 18,716 95 1,827 1 8. Bojong 3,567 4,802 17,129 | | and the second | and the second | | | | |
| 24. Pontang 5,755 4,480 25,782 - - 25. Tirtayasa 7,225 4,470 32,296 - - 26. Carenang 4,783 4,360 20,854 - - Total (or Average) 87,158 4,443 387,250 5,719 2,185 12,4 Kabupaten Pandeglang 2,216 4,808 10,655 315 1,511 4 2. Cadasari 2,326 4,818 11,207 1,914 1,684 3,2 3. Banjar 2,723 4,815 13,111 85 1,847 1 4. Cimanuk 6,980 4,901 34,209 - - - 5. Mandalawangi 2,228 4,816 10,730 49 1,832 6. Menes 2,862 4,872 13,944 23 1,915 7. Saketi 3,887 4,802 17,129 110 1,715 1 8. Bojong 3,567 4,802 17,129 110 1,715 1 9. Munjul 4,133 4,735 19,570 | | | | | | | 20; |
| 25. Tirtayasa 7,225 4,470 32,296 - - 26. Carenang 4,783 4,360 20,854 - - Total (or Average) 87,158 4,443 387,250 5,719 2,185 12,4 Kabupaten Pandeglang 2,216 4,808 10,655 315 1,511 4 2. Cadasari 2,326 4,818 11,207 1,914 1,684 3,2 3. Banjar 2,723 4,815 13,111 85 1,847 1 4. Cimanuk 6,980 4,901 34,209 - - 5. Mandalawangi 2,228 4,816 10,730 49 1,832 6. Menes 2,862 4,872 13,944 23 1,915 7. Saketi 3,887 4,815 18,716 95 1,827 1 8. Bojong 3,567 4,802 17,129 110 1,715 1 9. Munjul 4,263 4,809 20,501 57 1,905 1 10. Labuan 2,013 4,827 9,717 713 | 23. Cikande | 5,323 | 4,570 | | . 25 | 2,220 | 5 |
| 26. Carenang 4,783 4,360 20,854 - - Total (or Average) 87,158 4,443 387,250 5,719 2,185 12,4 Kabupaten Pandeglang 2,216 4,808 10,655 315 1,511 4 2. Cadasari 2,326 4,818 11,207 1,914 1,684 3,2 3. Banjar 2,723 4,815 13,111 85 1,847 1 4. Cimanuk 6,980 4,901 34,209 - - 5. Mandalawangi 2,228 4,816 10,730 49 1,832 6. Menes 2,862 4,872 13,944 23 1,915 7. Saketi 3,887 4,815 18,716 95 1,827 1 8. Bojong 3,567 4,802 17,129 110 1,715 1 9. Munjul 4,133 4,735 19,570 734 1,803 1,33 10. Labuan 2,013 4,827 9,717 713 1,779 1,2 11. Jiput 4,263 4,809 20,50 | 24. Pontang | 5,755 | 4,480 | 25,782 | | ~ | |
| Total (or Average)87,1584,443387,2505,7192,18512,4Kabupaten Pandeglang2,2164,80810,6553151,51142. Cadasari2,3264,81811,2071,9141,6843,23. Banjar2,7234,81513,111851,84714. Cimanuk6,9804,90134,2095. Mandalawangi2,2284,81610,730491,8326. Menes2,8624,87213,944231,9157. Saketi3,8874,81518,716951,82718. Bojong3,5674,80217,1291101,71519. Munjul4,1334,73519,5707341,8031,310. Labuan2,0134,8279,7177131,7791,211. Jiput4,2634,80920,501571,905112. Pagelaran8,6954,73041,1273001,691513. Cigeulis10,6114,84751,4323,1451,8725,814. Cibaliung4544,7022,1353,0761,5754,815. Cimanggu3,7634,81818,1302,6261,8974,916. Cikeusik4,0884,73919,3737491,7181,2 | 25. Tirtayasa | 7,225 | 4,470 | 32,296 | | · - | · . · · · |
| Kabupaten 1. Pandeglang2,2164,80810,6553151,51142. Cadasari2,3264,81811,2071,9141,6843,23. Banjar2,7234,81513,111851,84714. Cimanuk6,9804,90134,2095. Mandalawangi2,2284,81610,730491,8326. Menes2,8624,87213,944231,9157. Saketi3,8874,81518,716951,82718. Bojong3,5674,80217,1291101,71519. Munjul4,1334,73519,5707341,8031,310. Labuan2,0134,8279,7177131,7791,211. Jiput4,2634,80920,501571,905112. Pagelaran8,6954,73041,1273001,691513. Cigeulis10,6114,84751,4323,1451,8725,814. Cibaliung4544,7022,1353,0761,5754,815. Cimanggu3,7634,81818,1302,6261,8974,916. Cikeusik4,0884,73919,3737491,7181,2 | 26. Carenang | 4,783 | 4,360 | 20,854 | - | · - | |
| 1. Pandeglang 2,216 4,808 10,655 315 1,511 4 2. Cadasari 2,326 4,818 11,207 1,914 1,684 3,22 3. Banjar 2,723 4,815 13,111 85 1,847 1 4. Cimanuk 6,980 4,901 34,209 - - - 5. Mandalawangi 2,228 4,816 10,730 49 1,832 - 6. Menes 2,862 4,872 13,944 23 1,915 - 7. Saketi 3,887 4,815 18,716 95 1,827 1 8. Bojong 3,567 4,802 17,129 110 1,715 1 9. Munjul 4,133 4,735 19,570 734 1,803 1,3 10. Labuan 2,013 4,827 9,717 713 1,779 1,2 11. Jiput 4,263 4,809 20,501 57 1,905 1 12. Pagelaran 8,695 4,730 41,127 300 1,691 5 13. Cigeulis | Total (or Average) | 87,158 | 4,443 | 387,250 | 5,719 | 2,185 | 12,49 |
| 1. Pandeglang2,2164,80810,6553151,51142. Cadasari2,3264,81811,2071,9141,6843,223. Banjar2,7234,81513,111851,84714. Cimanuk6,9804,90134,2095. Mandalawangi2,2284,81610,730491,8326. Menes2,8624,87213,944231,9157. Saketi3,8874,81518,716951,82718. Bojong3,5674,80217,1291101,71519. Munjul4,1334,73519,5707341,8031,310. Labuan2,0134,8279,7177131,7791,211. Jiput4,2634,80920,501571,905112. Pagelaran8,6954,73041,1273001,691513. Cigeulis10,6114,84751,4323,1451,8725,814. Cibaliung4544,7022,1353,0761,5754,815. Cimanggu3,7634,81818,1302,6261,8974,916. Cikeusik4,0884,73919,3737491,7181,2 | | | | | | | · · · |
| 2. Cadasari 2,326 4,818 11,207 1,914 1,684 3,2 3. Banjar 2,723 4,815 13,111 85 1,847 1 4. Cimanuk 6,980 4,901 34,209 - - - 5. Mandalawangi 2,228 4,816 10,730 49 1,832 - 6. Menes 2,862 4,872 13,944 23 1,915 - - 7. Saketi 3,887 4,815 18,716 95 1,827 1 8. Bojong 3,567 4,802 17,129 110 1,715 1 9. Munjul 4,133 4,735 19,570 734 1,803 1,3 10. Labuan 2,013 4,827 9,717 713 1,779 1,2 11. Jiput 4,263 4,809 20,501 57 1,905 1 12. Pagelaran 8,695 4,730 41,127 300 1,691 5 13. Cigeulis 10,611 4,847 51,432 3,145 1,872 5,8 1 | Kabupaten Pandeglang | | | | | | |
| 3. Banjar 2,723 4,815 13,111 85 1,847 1 4. Cimanuk 6,980 4,901 34,209 - - - - 5. Mandalawangi 2,228 4,816 10,730 49 1,832 - - - 6. Menes 2,862 4,872 13,944 23 1,915 - - 7. Saketi 3,887 4,815 18,716 95 1,827 1 8. Bojong 3,567 4,802 17,129 110 1,715 1 9. Munjul 4,133 4,735 19,570 734 1,803 1,3 10. Labuan 2,013 4,827 9,717 713 1,779 1,2 11. Jiput 4,263 4,809 20,501 57 1,905 1 12. Pagelaran 8,695 4,730 41,127 300 1,691 5 13. Cigeulis 10,611 4,847 51,432 3,145 1,872 5,8 14. Cibaliung 454 4,702 2,135 3,076 1,575 | 1. Pandeglang | 2,216 | 4,808 | 10,655 | 315 | 1,511 | 47 |
| 4. Cimanuk 6,980 4,901 34,209 - - 5. Mandalawangi 2,228 4,816 10,730 49 1,832 6. Menes 2,862 4,872 13,944 23 1,915 7. Saketi 3,887 4,815 18,716 95 1,827 1 8. Bojong 3,567 4,802 17,129 110 1,715 1 9. Munjul 4,133 4,735 19,570 734 1,803 1,3 10. Labuan 2,013 4,827 9,717 713 1,779 1,2 11. Jiput 4,263 4,809 20,501 57 1,905 1 12. Pagelaran 8,695 4,730 41,127 300 1,691 5 13. Cigeulis 10,611 4,847 51,432 3,145 1,872 5,8 14. Cibaliung 454 4,702 2,135 3,076 1,575 4,8 15. Cimanggu 3,763 4,818 18,130 2,626 1,897 4,9 16. Cikeusik 4,088 4,739 | 2. Cadasari | 2,326 | 4,818 | 11,207 | 1,914 | 1,684 | 3,22 |
| 5. Mandalawangi2,2284,81610,730491,8326. Menes2,8624,87213,944231,9157. Saketi3,8874,81518,716951,82718. Bojong3,5674,80217,1291101,71519. Munjul4,1334,73519,5707341,8031,310. Labuan2,0134,8279,7177131,7791,211. Jiput4,2634,80920,501571,905112. Fagelaran8,6954,73041,1273001,6915513. Cigeulis10,6114,84751,4323,1451,8725,814. Cibaliung4544,7022,1353,0761,5754,815. Cimanggu3,7634,81818,1302,6261,8974,916. Cikeusik4,0884,73919,3737491,7181,2 | 3. Banjar | 2,723 | 4,815 | 13,111 | 85 | 1,847 | 15 |
| 5. Mandalawangi2,2284,81610,730491,8326. Menes2,8624,87213,944231,9157. Saketi3,8874,81518,716951,82718. Bojong3,5674,80217,1291101,71519. Munjul4,1334,73519,5707341,8031,310. Labuan2,0134,8279,7177131,7791,211. Jiput4,2634,80920,501571,905112. Pagelaran8,6954,73041,1273001,6915513. Cigeulis10,6114,84751,4323,1451,8725,814. Cibaliung4544,7022,1353,0761,5754,815. Cimanggu3,7634,81818,1302,6261,8974,916. Cikeusik4,0884,73919,3737491,7181,2 | 4. Cimanuk | 6,980 | 4,901 | 34,209 | | | |
| 6. Menes2,8624,87213,944231,9157. Saketi3,8874,81518,716951,82718. Bojong3,5674,80217,1291101,71519. Munjul4,1334,73519,5707341,8031,310. Labuan2,0134,8279,7177131,7791,211. Jiput4,2634,80920,501571,905112. Pagelaran8,6954,73041,1273001,6915513. Cigeulis10,6114,84751,4323,1451,8725,814. Cibaliung4544,7022,1353,0761,5754,815. Cimanggu3,7634,81818,1302,6261,8974,916. Cikeusik4,0884,73919,3737491,7181,2 | 5. Mandalawangi | | | | 49 | 1,832 | |
| 7. Saketi3,8874,81518,716951,82718. Bojong3,5674,80217,1291101,71519. Munjul4,1334,73519,5707341,8031,310. Labuan2,0134,8279,7177131,7791,211. Jiput4,2634,80920,501571,905112. Pagelaran8,6954,73041,1273001,691513. Cigeulis10,6114,84751,4323,1451,8725,814. Cibaliung4544,7022,1353,0761,5754,815. Cimanggu3,7634,81818,1302,6261,8974,916. Cikeusik4,0884,73919,3737491,7181,2 | 6. Menes | 2,862 | | | 23 | 1,915 | 4 |
| 8. Bojong 3,567 4,802 17,129 110 1,715 1 9. Munjul 4,133 4,735 19,570 734 1,803 1,3 10. Labuan 2,013 4,827 9,717 713 1,779 1,2 11. Jiput 4,263 4,809 20,501 57 1,905 1 12. Pagelaran 8,695 4,730 41,127 300 1,691 5 13. Cigeulis 10,611 4,847 51,432 3,145 1,872 5,8 14. Cibaliung 454 4,702 2,135 3,076 1,575 4,8 15. Cimanggu 3,763 4,818 18,130 2,626 1,897 4,9 16. Cikeusik 4,088 4,739 19,373 749 1,718 1,2 | | | | | | | 17 |
| 9. Munjul4,1334,73519,5707341,8031,310. Labuan2,0134,8279,7177131,7791,211. Jiput4,2634,80920,501571,905112. Pagelaran8,6954,73041,1273001,691513. Cigeulis10,6114,84751,4323,1451,8725,814. Cibaliung4544,7022,1353,0761,5754,815. Cimanggu3,7634,81818,1302,6261,8974,916. Cikeusik4,0884,73919,3737491,7181,2 | | | | | | | 18 |
| 10. Labuan2,0134,8279,7177131,7791,211. Jiput4,2634,80920,501571,905112. Pagelaran8,6954,73041,1273001,691513. Cigeulis10,6114,84751,4323,1451,8725,814. Cibaliung4544,7022,1353,0761,5754,815. Cimanggu3,7634,81818,1302,6261,8974,916. Cikeusik4,0884,73919,3737491,7181,2 | | • | | | | | 1,32 |
| 11. Jiput4,2634,80920,501571,905112. Pagelaran8,6954,73041,1273001,691513. Cigeulis10,6114,84751,4323,1451,8725,814. Cibaliung4544,7022,1353,0761,5754,815. Cimanggu3,7634,81818,1302,6261,8974,916. Cikeusik4,0884,73919,3737491,7181,2 | | | | • | | | 1,26 |
| 12. Pagelaran8,6954,73041,1273001,691513. Cigeulis10,6114,84751,4323,1451,8725,814. Cibaliung4544,7022,1353,0761,5754,815. Cimanggu3,7634,81818,1302,6261,8974,916. Cikeusik4,0884,73919,3737491,7181,2 | | | - | - | | • | 10 |
| 13. Cigeulis10,6114,84751,4323,1451,8725,814. Cibaliung4544,7022,1353,0761,5754,815. Cimanggu3,7634,81818,1302,6261,8974,916. Cikeusik4,0884,73919,3737491,7181,2 | | | | | | | 50 |
| 14. Cibaliung4544,7022,1353,0761,5754,815. Cimanggu3,7634,81818,1302,6261,8974,916. Cikeusik4,0884,73919,3737491,7181,2 | | | | | and the second se | | 5,88 |
| 15. Cimanggu3,7634,81818,1302,6261,8974,916. Cikeusik4,0884,73919,3737491,7181,2 | - | | | | | | |
| 16. Cikeusik 4,088 4,739 19,373 749 1,718 1,2 | ÷- | | | | | • | |
| | : | | | | | | |
| - TOP I LOP AVORADI KA KINA A UNO 213 KRA 12 DOL 1 771 77 | Total (or Average) | 64,809 | 4,739 | 311,684 | 13,991 | 1,771 | 24,784 |

Table I(A)-24 HARVESTED AREA, UNIT YIELD AND PRODUCTION OF FADDY BY KECAMATAN IN THE STUDY REGION IN 1985

Remarks: (1) Harvested Area = ha

(2) Unit Yield = kg/ha

- (3) Production = ton
- Source:

ce: Dinas Pertanian Tanaman Pangan Serang, Laporan Tahun 1985.

Dinas Pertanian Tanaman Pangan Pandeglang, Laporan Tahun 1985.

The production of maize was respectively 2,858 tons in Kab. Serang and 7,451 tons in Kab. Pandeglang in 1985. Kec. Cibaliung was the most productive sub-district, where a third of maize was produced as shown in Table I(A)-25. As for the production of cassava, it was respectively 96,152 tons in Kab. Serang and 63,253 tons in Kab. Pandeglang in 1985. The producing centers of cassava are Kec. Cikeusal, Pamarayan, Padarincang, Petir, etc. of Kab. Serang and Kec. Cigeulis, Cibaliung, Pagelaran, etc. of Kab. Pandeglang.

The production of sweet potatoes was respectively 37,159 tons in Kab. Serang and 28,323 tons in Kab. Pandeglang in 1985. They are active in Kec. Cikeusal, Baros, Pamarayan, etc. of Kab. Serang and Kec. Pandeglang, Labuan, etc. of Kab. Pandeglang. The production of groundnuts was respectively 17,850 tons in Kab. Serang and 2,482 tons in Kab. Pandeglang. The study region, especially Kab. Serang is one of the famous groundnuts producing centers in West Java Province. They are active in the northwestern Kec. of Bonjonegara, Cilegon and Pulomerak as shown in Table I(A)-26. The production of groundnuts in the three Kecamatans occupied 46.9% of the whole production in Kab. Serang. Such high productivity seems to be due to the well-drained sandy soils in the area. This promising crop is a multi-purpose product, which can be used as food, oil and feed.

| Kecamatan | | Maize | · | | Cassava | |
|----------------------|----------------|----------------|--|-----------|---------|-------|
| | (1) | (2) | (3) | (1) | (2) | (3) |
| | 7 | | e station | | | |
| Kabupaten Serang | | | | <u></u> . | | |
| 1. Serang | 80 | 1,173 | 94 | 229 | 14,288 | 3,27 |
| 2. Kasemen | 6 | 1,180 | 7. | 9 | 1,423 | 1 |
| 3. Taktakan | 75 | 1,156 | 87 | 271 | 14,118 | 3,82 |
| 4. Waringinkurung | 57 | 1,188 | 68 | 227 | 14,242 | 3,23 |
| 5. Kramatwatu | 3 | 1,256 | 4 | 5 | 15,016 | 7 |
| 6. Cilegon | | | · | 30 | 14,340 | 43 |
| 7. Bojonegara | 172 | 1,133 | 195 | 212 | 14,055 | 2,98 |
| 8. Pulomerak | 136 | 1,124 | 153 | 461 | 14,251 | 6,57 |
| 9. Anyer | 335 | 1,112 | 373 | 488 | 14,220 | 6,93 |
| 10. Mancak | 19 | 1,123 | 21 | 342 | 14,104 | 4,82 |
| 11. Cinangka | 394 | 1,183 | 466 | 361 | 14,072 | 5,08 |
| 12. Padarincang | 203 | 1,176 | 239 | 612 | 14,066 | 8,60 |
| 13. Ciomas | 38 | 1,146 | 44 | 100 | 14,200 | 1,42 |
| 14. Pabuaran | 20 | 1,165 | 23 | 272 | 14,118 | 3,84 |
| 15. Baros | · · | _ | · · · · · | 124 | 14,450 | 1,79 |
| 16. Petir | 378 | 1,124 | 425 | 522 | 14,096 | 7,35 |
| 17. Cikeusal | , . | | | 1,088 | 14,193 | 15,44 |
| 18. Pamarayan | 18 | 1,220 | 22 | 924 | 14,030 | 12,96 |
| 19. Коро | 25 | 1,233 | 31 | 230 | 14,200 | 3,26 |
| 20. Walantaka | | | | 50 | 14,400 | 72 |
| 21. Ciruas | 27 | 1,225 | 33 | - | | |
| 22. Kragilan | 90 | 1,200 | 108 | 127 | 13,978 | 1,77 |
| 23. Cikande | | ., | | 82 | 14,000 | 1,14 |
| 24. Pontang | 17 | 1,167 | 20 | 10 | 14,500 | 14 |
| 25. Tirtayasa | 27 | 1,221 | 33 | 20 | 15,000 | 30 |
| 26. Carenang | 27 | 1,221 | 33 | 20 | 14,500 | 2 |
| Total (or Average) | 2,147 | 1,177 | 2,528 | | 13,754 | 93,50 |
| iocal (of Average) | 2,14) | 1,111 | 2,520 | 6,798 | 121124 | 33,30 |
| Kabupaten Pandeglang | | · · · · · | | | | |
| 1. Pandeglang | 340 | 1,243 | 423 | 445 | 11,393 | 5,07 |
| 2. Cadasari | 710 | 1,183 | 840 | 176 | 11,403 | 2,00 |
| 3. Banjar | 75 | | 89 | 37.4 | 11, 382 | 4,25 |
| 4. Cimanuk | 90 | 1,184 1,301 | 117 | 120 | 11,382 | |
| | | | | | | 1,35 |
| 5. Mandalawangi | 127 | 1,254 | 159 | 249 | 11,481 | 2,85 |
| 6. Meneš | 109 | 1,343 | 146 | 220 | 11,284 | 2,48 |
| 7. Saketi | 173 | 1,245 | 215 | 262 | 11,280 | 2,95 |
| 8. Bojong | 61 | 1,200 | 73 | 132 | 11,387 | 1,50 |
| 9. Munjul | 264 | 1,343 | 355 | 404 | 11,293 | 4,56 |
| 10. Labuan | 29 | 1,245 | 36 | 257 | 11,208 | 2,88 |
| 11. Jiput | 17 | 1,243 | 21 | 122 | 11,497 | 1,40 |
| 12. Pagelaran | 116 | 1,301 | 151 | 580 | 11,298 | 6,55 |
| 13. Cigeulis | 886 | 1,239 | 1,098 | 1,063 | 11,404 | 12,12 |
| 14. Cibaliung | 2,688 | 1,243 | 3,341 | 690 | 11,379 | 7,85 |
| 15. Cimanggu | 207 | 1,243 | 257 | 309 | 11,380 | 3,51 |
| 16. Cikeusik | 50 | 1,240 | 62 | 163 | 11,397 | 1,85 |
| Total (or Average) | 5,942 | 1,253 | 7,384 | 5,566 | 11,360 | 63,23 |

Table I(A)-25 HARVESTED AREA, UNIT YIELD AND PRODUCTION OF MAIZE AND CASSAVA BY KECAMATAN IN THE STUDY REGION IN 1985

Remarks: (1) Harvested Area = ha

(2) Unit Yield = kg/ha

(3) Production = ton

Source:

Dinas Pertanian Tanaman Pangan Serang, Laporan Tahun 1985. Dinas Pertanian Tanaman Pangan Pandeglang, Laporan Tahun 1985.

Table I(A)-26 HARVESTED AREA, UNIT YIELD AND PRODUCTION OF SWEET POTATOES AND GROUNDNUTS BY KECAMATAN IN THE STUDY REGION IN 1985

| Kecamatan | Swee | t Potatoe | 38 | Gr | oundnuts | |
|-------------------------------|----------|-----------|------------|--------|----------|----------|
| | (1) | (2) | (3) | (1) | (2) | (3) |
| | | | | | | |
| Kabupaten Serang | | | · . | | | |
| 1. Serang | 101 | 12,920 | 1,305 | 106 | 1,085 | 11 |
| 2. Kasemen | 7 | 130 | 1 | 23 | 1,136 | 2 |
| 3. Taktakan | - | - | · | 1,525 | 1,097 | 1,67 |
| 4. Waringinkurung | 144 | 12,825 | 1,847 | 1,076 | 1,149 | 1,23 |
| 5. Kramatwatu | 7 | 132 | 1 | 375 | 1,165 | 43 |
| 6. Cilegon | 19 | 12,875 | 245 | 2,462 | 1,135 | 2,79 |
| 7. Bojonegara | 98 | 12,855 | 1,260 | 4,185 | 1,086 | 4,54 |
| 8. Pulomerak | 103 | 12,682 | 1,306 | 994 | 1,045 | 1,03 |
| 9. Anyer | 141 | 12,652 | 1,784 | 548 | 1,133 | 62 |
| 10. Mancak | 41 | 13,914 | 570 | 560 | 1,105 | 61 |
| 11. Cinangka | 110 | 12,720 | 1,399 | 157 | 1,140 | 17 |
| 12. Padarincang | 241 | 12,718 | 3,065 | 21 | 1,210 | 2 |
| 13. Ciomas | 66 | 130 | 9 | 1 | 1,225 | |
| 14. Pabuaran | 235 | 13,065 | 3,070 | 249 | 1,165 | 29 |
| 15. Baros | 345 | 13,130 | 4,530 | 9 | 1,210 | 1 |
| 16. Petir | 69 | 12,925 | 892 | 573 | 1,107 | 63 |
| 17. Cikeusal | 450 | 12,638 | 5,687 | 1,021 | 1,132 | 1,15 |
| 18. Pamarayan | 258 | 12,821 | 3,308 | 325 | 1,160 | 37 |
| 19. Kopo | 96 | 13,120 | 1,260 | 187 | 1,124 | 21 |
| 20. Walantaka | 50 | 134 | 7 | 1,149 | 1,125 | 1,29 |
| 21. Ciruas | _ | | | 2 | 12 | _, |
| 22. Kragilan | 118 | 12,610 | 1,488 | 172 | 1,108 | 19 |
| 23. Cikande | 130 | 12,854 | 1,671 | 145 | 1,150 | 16 |
| 24. Pontang | 3 | 13,520 | 41 | 23 | 1,205 | 2 |
| 25. Tirtayasa | 18 | 13,245 | 238 | 21 | 1,220 | 2 |
| 26. Carenang | 43 | 13,120 | 564 | 123 | 1,170 | 14 |
| Total (or Average) | 2,893 | 10,822 | 31,309 | 16,032 | 1,100 | 17,63 |
| | • • | | • | • | • | • |
| Kabupaten Pandeglang | | | | | | |
| 1. Pandeglang | 319 | 11,909 | 3,799 | 139 | 1,012 | 14 |
| 2. Cadasari | 238 | 11,860 | 2,823 | 10 | 1,103 | 1 |
| 3. Banjar | 89 | 11,887 | 1,058 | 57 | 1,080 | 6 |
| 4. Cimanuk | 175 | 11,907 | 2,084 | 60 | 1,097 | 6 |
| 5. Mandalawangi | 156 | 11,870 | 1,852 | 39 | 1,035 | 4 |
| 6. Menes | 232 | 11,960 | 2,775 | 92 | 1,140 | 10 |
| 7. Saketi | 231 | 11,860 | 2,740 | 163 | 1,112 | 18 |
| 8. Bojong | 47 | 11,779 | 554 | 62 | 1,098 | 6 |
| 9. Munjul | 161 | 11,767 | 1,894 | 238 | 1,094 | 26 |
| 10. Labuan | 259 | 11,908 | 3,084 | 43 | 1,113 | 4 |
| 11. Jiput | 131 | 11,868 | 1,555 | 36 | 1,113 | 4 |
| 12. Pagelaran | 74 | 11,808 | 874 | 55 | 1,087 | -1 6 |
| 12. Pageraran 13. Cigeulis | 142 | 11,908 | 1,691 | 435 | 1,032 | 44 |
| - | 33 | 11,767 | 388 | 258 | 1,032 | 28 |
| 14. Cibaliung | 33 46 | | 586 546 | 134 | 1,112 | 20 14 |
| 15. Cimangdu 16. Cikougik | | 11,867 | 546 607 | 86 | 1,112 | 9 |
| 16. Cikeusik | 51 | 11,907 | | | | 2,08 |
| Total (or Average) | 2,384 | 11,865 | 28,323 | 1,907 | 1,093 | 2,00 |

Remarks:

(1) Harvested Area = ha (2) Unit Yield = kg/ha

Source:

(3) Production = tonDinas Pertanian Tanaman Pangan Serang, Laporan Tahun 1985.

Dinas Pertanian Tanaman Pangan Pandeglang, Laporan Tahun 1985.

The production of soyabeans was respectively 235 tons in Kab. Serang and 3,048 tons in Kab. Pandeglang in 1985. Kec. Cigeulis in Kab. Pandeglang is the biggest soyabean producing area, where 57.9% of the total soyabeans in the study region were produced as shown in Table I(A)-27. The production of greenpeas was respectively 2,042 tons in Kab. Serang and 616 tons in Kab. Pandeglang. The main producers are Kec. Anyer, Waringinkurung, Cikeusal, Cilegon, Bonjonegara, etc. Greenpeas as well as groundnuts are cash crops, therefore they are produced mainly along the Jakarta-Merak main road. As for the distribution of food crop production, see Fig. I(A)-5.

2) Vegetable production in the study region

The harvested area, production and yield of vegetables in West Java Province and the study region are given in Table I(A)-28. The main vegetables in the study region are beans, cucumber, chili, eggplant, kangkung, etc., and the production of cucumber in the study region accounted for 25.4% of that in West Java Province. Fig. I(A)-6 shows the distribution of vegetable production. Most of vegetables are produced along the main roads in the study region. Table I(A)-27

HARVESTED AREA, UNIT YIELD AND PRODUCTION OF SOYABEANS AND GREENPEAS BY KECAMATAN IN THE STUDY REGION IN 1985

Kecamatan Soyabeans Greenpeas (1)(2)(3) (1) (2)(3)Kabupaten Serang 1. Serang 26 925 24 29 825 24 2. Kasemen 5 1,103 6 10 815 8 3. Taktakan ----~ ----60 720 43 4. Waringinkurung ~ -----412 728 300 5. Kramatwatu ----------145 736 107 6. Cilegon 13 1,120 15 331 724 240 7. Bojonegara 4 1,035 4 301 747 225 8. Pulomerak 50 958 48 725 102 74 9. Anyer 4 920 4 410 737 302 10. Mancak 5 5 965 118 7.35 87 11. Cinangka 22 925 20 7 778 5 12. Padarincang 1 1,022 1 15 820 12 13. Ciomas --_ ----_ 14. Pabuaran 2 973 2 16 750 12 15. Baros 5 1,022 5 19 770 15 16. Petir **.**... _ . ---92 733 67 17. Cikeusal 20 945 19 364 761 277 18. Pamarayan -1 1,020 .1 61 756 46 19. Kopo 24 1,021 25 22 792 17 20. Walantaka 22 1,172 26 85 825 70 21. Ciruas 12 1,200 14 ---22. Kragilan ---_ _ 23. Cikande 21 970 20 78 765 60 24. Pontang --5 826 4 25. Tirtayasa -_ _ 33 788 26 26. Carenang ----26 728 19 Total (or Average) 237 1,017 241 2,741 765 2,096 Kabupaten Pandeglang 1. Pandeglang 1,103 14 15 _ •----2. Cadasari 1,128 26 29 _ _ 3. Banjar 1,142 30 9 26 915 8 4. Cimanuk 65 1,137 74 8 845 7 5. Mandalawangi 22 1,093 24 ----_ 6. Menes 62 1,132 70 --------7. Saketi 83 1,112 92 13 16 830 8. Bojong 26 1,103 29 31 801 25 72 9. Munjul 1,098 79 89 830 74 785 5 10. Labuan 11 1,097 12 6 11. Jiput 1,142 18 815 12 16 15 12. Pagelaran 33 1,103 36 1 773 1 13. Cigeulis 1,606 1,183 1,900 288 859 247 14. Cibaliung 233 1,067 249 112 912 102 15. Cimanqqu 50 907 40 45 1,112 44 58 883 16. Cikeusik 270 1,191 322 51 1,121 3,029 677 846 573 Total (or Average) 2,610

Remarks: (1)

(1) Harvested Area = ha

(2) Unit Yield = kg/ha(3) Production = ton

Source:

Dinas Pertanian Tanaman Pangan Serang, Laporan Tahun 1985.

Dinas Pertanian Tanaman Pangan Pandeglang, Laporan Tahun 1985.

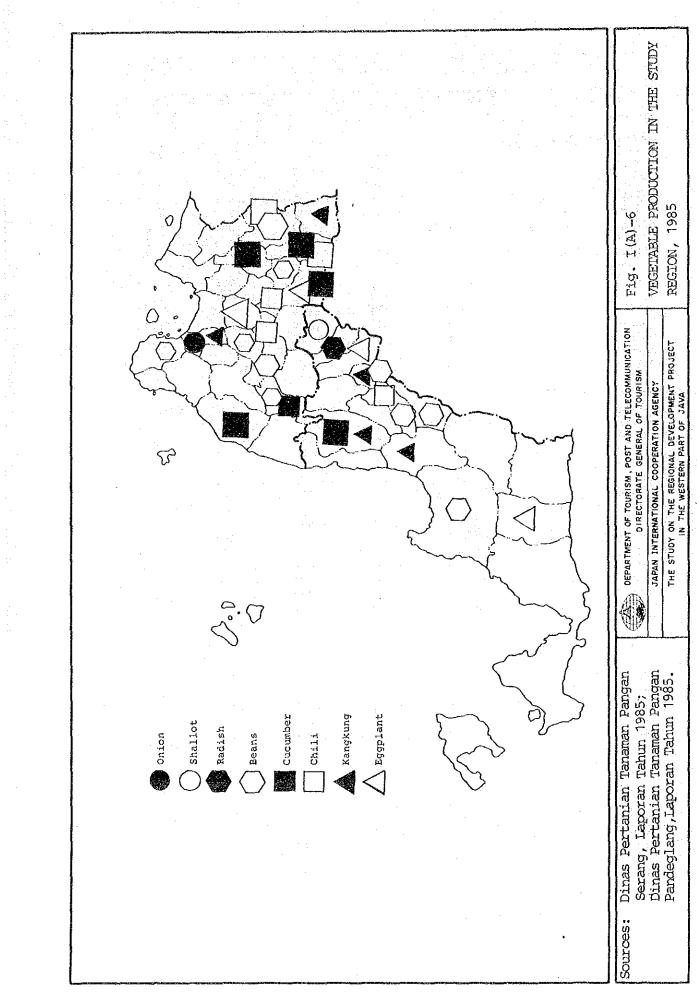
FOOD CROP PRODUCTION IN THE STUDY REGION, 1985 Fig. I(A)-5 DEPARTMENT OF TOURISM, POST AND TELECOMMUNICATION THE STUDY ON THE REGIONAL DEVELOPMENT PROJECT IN THE WESTERN PART OF JAVA DIRECTORATE GENERAL OF TOURISM JAPAN INTERNATIONAL COOPERATION AGENCY 0 55 a 57 С a 5 Soyabeans 5 2-(2 Cassava < Ð Ö Dinas Pertanian Tanaman Pangan Pandegrang, Laporan Tahun 1985. Dinas Pertanian Tanaman Pangan 4.0 Peanuts 3.0 1.0 2.0 * 0.5 2 Maize Serang, Laporan Tahun 1985; 0.30 Greenpeas 0.25 0.15 0.20 01.0 ם Paddy (Dry) Unit: ton 2 40 38 50 20 ŝ Sweet Potatoes Paddy (Wet) y Sources:

Table I(A)-28 HARVESTED AREA, PRODUCTION AND UNIT YIELD OF VEGETABLES IN THE STUDY REGION AND WEST JAVA IN 1984

| | Serang (A) | Pandeglang (B) | Study Area (C) | West Java (D) | (C)/(D) x 100 |
|--------------------|---------------|-------------------|--|------------------|------------------|
| Harvested Area (ha | | | a fa | | |
| Challot | · _ | 100 | 102 | 2 040 | 0.7 |
| Onion | 189 | . 193 | 193 | 7,042 | 2.74 |
| Cabbage | 109 | | 223 | 8,926 | 2.50 |
| Radish | | 10 | 15 | 11,883 | 0.13 |
| | 15 | | | 1,916 | 5.2 |
| Mustard Green | - | 33 | | 5,759 | 0.57 |
| Beans | 4,780 | - | | | 10.3 |
| Carrot | - | 3 | 3 | 2,669 | 0.11 |
| Beans (Buncis) | | 81 | 81 | | 1.64 |
| Spinach | 182 | | | 4,317 | 7.11 |
| Cucumber | 2,070 | | 3,263 | 16,735 | 19.50 |
| Chili | 2,913 | 439 | 3,352 | 18,752 | 17.88 |
| Tomato | 232 | 134 | 366 | 7,120 | 5.14 |
| Eggplant | 983 | 396 | 1,379 | 9,002 | 15.32 |
| Pumpkin | 35 | 9 | 44 | 1,302 | 3.38 |
| Kangkung | 154 | 89 | 243 | 2,478 | 9.81 |
| Others | 373 | 22 | 395 | 4,168 | 9.48 |
| Production (100 kg |) | | | | |
| Challot | _ | 11,828 | 11,828 | 360,700 | 3.28 |
| Onion | 8,504 | 1,778 | | 387,948 | 2.53 |
| Cabbage | | 945 | | 1,994,787 | 0.05 |
| Radish | 408 | | 3,051 | 143,574 | 2.13 |
| Mustard Green | 400 | 1,450 | | 521,577 | 0.28 |
| * | 70 026 | | | - | |
| Beans | 79,036 | | 96,171 | 1,047,617 | 9.18 |
| Carrot | _ | 396 | 396 | 245,463 | 0.10 |
| Beans (Buncis) | - | 2,958 | 2,958 | 223,474 | 1.32 |
| Spinach | 2,618 | • | 4,636 | 113,092 | 4.10 |
| Cucumber | 42,524 | - | 192,338 | 756,490 | 25.43 |
| Chili | 35,504 | • | 44,652 | 406,228 | 10.99 |
| Tomato | 7,832 | | 12,862 | 358,966 | 3.58 |
| Eggplant | 37,110 | | 44,657 | 334,248 | 13.36 |
| Pumpkin | 2,410 | 620 | 3,030 | 155,708 | 1.95 |
| Kangkung | 3,623 | 2,072 | 5,695 | 68,363 | 8.33 |
| Others | 6,292 | 103 | 6,395 | 107,788 | 5.93 |
| Unit Yield (kg/ha) | | | | | |
| Challot | - | 6,128 | 6,128 | 5,122 | 119.65 |
| Onion | 4,499 | 5,229 | 4,409 | 4,346 | 101.44 |
| Cabbage | - | 6,300 | 6,300 | 16,787 | 37.53 |
| Radish | 2,720 | 3,073 | 3,021 | 7,493 | 40.3 |
| Mustard Green | - | 4,394 | | 9,057 | 48.52 |
| Beans | 1,653 | 1,680 | 1,658 | 1,863 | 89.03 |
| Carrot | · - | 13,200 | 13,200 | 9,197 | 143.53 |
| Beans (Buncis) | | 3,652 | 3,652 | 4,522 | 80.76 |
| Spinach | 1,438 | | 1,510 | | 57.64 |
| Cucumber | 2,054 | = | • | 4,520 | 130.40 |
| Chili | 1,219 | | 1,332 | | 61.49 |
| Tomato | 3,376 | | 3,514 | | 69.70 |
| Eggplant | 3,775 | | - | 3,713 | 87.2 |
| Pumpkin | 6,886 | | • | 11,959 | 57.5 |
| | 2,353 | | | 2,759 | 84.9 |
| Kangkung | | | 1,619 | 2,739 | 62.60 |
| Others | 1,687 | 400 | 1,019 | 2,000 | 02.0 |
| | | | | | |

Source: Jawa Barat Dalam Angka 1984.

.



The production of beans was respectively 11,231 tons in Kab. Serang and 10,845 tons in Kab. Pandeglang in 1985. The most productive area is Kec. Cikande, where a third of the total production in Kab. Serang was made in 1985, while Kec. Cimanuk, Saketi, Bojong, Cigeulis, etc. are the producing centers in Kab, Pandeglang. The production of cucumber was respectively 12,220 tons in Kab. Serang and 7,178 tons in Kab. Pandeglang. It is actively carried out in Kec. Anyer, Padarincang, Petir, Pamarayan, Kragilan, etc. in Kab. Serang and Kec. Jiput in Kab. Pandeglang. The study region is known as one of the chili producing areas in West Java Province. The production of chili was respectively 12,369 tons in Kab. Serang and 7,264 tons in Kab. Pandeglang in 1985. The main producers are Kec. Pamarayan, Cikande, Cikeusal, Pabuaran, etc. in Kab. Serang. Chili is one of promising products as well as clove, pepper and vanilla, because the prices of spices are relatively stable in the world market.

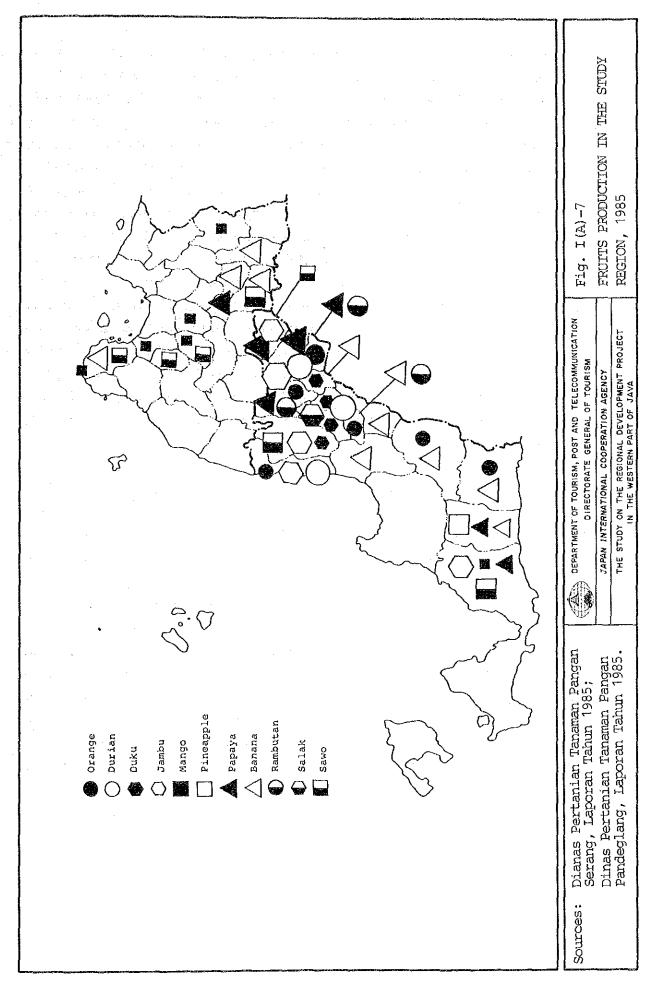
3) Fruits production in the study region

The production of fruits in the study region and West Java Province is given in Table I(A)-29. The main fruits in the study region are durian, duku, jambu, salak, sawo, etc., and in 1984 the production of jambu and salak in the study region respectively corresponded to 38.4% and 42.9%of those in West Java Province. As shown in Fig. I(A)-7, most of fruits are produced in Kab. Pandeglang.

| Table | | | PRODUCTI | | | |
|-------|-------------|--------|----------|------|----|------|
| | an an China | REGION | AND WEST | JAVA | IN | 1980 |

| | Serang | Pandeglang | Study Area | West Java | (C)/(D) |
|-----------|---------|------------|--|---|---------|
| | (A) | (B) | (C) 200 Co | (D) | x 100 |
| | | | n an an an Arrainn. An an an Arrainn an Arrainn | for a second second Second second | |
| Avocado | 145 | 1,478 | 1,623 | 501,482 | 0.32 |
| Orange | 2,060 | 12,311 | 14,371 | 745,662 | 1.9. |
| Durian | 2,203 | 33,038 | 35,241 | 245,522 | 14.3 |
| Duku | 3,143 | 5,860 | 9,003 | 95,676 | 9.4 |
| Jambu | 516,920 | 24,516 | 541,436 | 1,411,696 | 38.3 |
| Mango | 5,193 | 6,186 | 11,379 | 996,311 | 1.1 |
| Pineapple | 590 | 17,460 | 18,050 | 683,225 | 2.6 |
| Papaya | 4,726 | 5,502 | 10,228 | 403,261 | 2.5 |
| Banana | 96,366 | 63,804 | 160,170 | 5,043,408 | 3,18 |
| Rambutan | 10,999 | 10,654 | 21,653 | 1,018,654 | 2.1: |
| Salak | 806 | 65,745 | 66,551 | 155,244 | 42.8 |
| Sawo | 8,335 | | 11,543 | 119,152 | 9.69 |
| | | | | | 1.1 |

Source: Jawa Barat Dalam Angka 1984.



The production of durian was respectively 80 tons in Kab. Serang and 1,776 tons in Kab. Pandeglang in 1985. It is produced in Kec. Cadasari, Pandeglang, Jiput, Cimanggu, Labuan, etc. There exist many kinds of jambu such as jambu biji, jambu air, jambu bol, etc. The most popular jambu in the study region are jambu biji and jambu air. The production of the former was respectively 434 tons in Kab. Serang and 7,917 tons in Kab. Pandeglang, while the production of the latter was respectively 116 tons in Kab. Serang and 3,915 tons in Kab. Pandeglang in 1985. Its main producing areas are Kec. Cadasari, Banjar, Labuan, Cimanggu, etc. in Kab. Pandeglang. Mango, papaya, banana, etc. are the common fruits in the study region as well as in West Java Province. However, as the production statistics of duke, salak, sawo, etc. indicate, fruits production in the study region varies largely with the weather conditions that reflected their prices in the market.

4) Agricultural problems in the study region

Arable lands in the study region are mostly cultivated for paddy and perennial crops. Therefore, the land area per household is considerably limited and its size is very small in the study region as well as other areas in Java island. According to the agricultural census in 1983, the land size per household was 0.59 ha in Kab. Serang and 0.76 ha in Kab. Pandeglang. Although these figures are larger than 0.48 ha of West Java Province, the relatively small land size constitutes one of the problems in the. study region. Further, there is a tradition to equally divide the land left by parents among their children, which makes the size of land per household smaller. Such situation induces more migrants to move to urban areas to get another source of income.

The marketing of agricultural products is another problem in the study region. Table I(A)-30 indicates the relatively high rates of self-consumption of food crops, especially in Kab. Pandeglang. This problem is mainly due to the poor transportation infrastructures, and the poor storage facilities.

2.3.2 Plantation and estates

The plantations in the study region are classified into three categories; smallholder, large private and state owned plantations. The plantation crops in the study region include coffee, rubber, coconut, clove, melinjo, kapok, pepper, screw-pine, vanilla, sugarpalm, etc., but the production of tea is very small. In 1984, the productions of coffee, rubber, coconut and clove in the study region were respectively 42.3%, 8.7%, 21.4% and 13.3% of those in West Java Province as shown in Table I(A)-31. Most of the production are carried out by smallholders except for rubber. The plantation production is one of the mainstays in the study region. Fig. I(A)-8 shows the distribution of plantation crop productions.

The production of coffee was 1,993 tons, or 1,304 tons in Kab. Serang and 689 tons in Kab. Pandeglang in 1984. The main production centers were Kecamatan Ciomas, Pabuaran and Baros in Kab. Serang, where about 70% of coffee in Kab. Serang was produced as shown in Table I(A)-32. In Kab. Pandeglang, Kec. Cadasari, Mandalawangi, etc. are main producers. Coffee of Indonesia is getting popular in the world market. Coffee in the study region will be a promising product if proper marketing routes are developed.

Table I (A) -30 MARKETING OF PRINCIPAL FOOD CROPS IN THE STUDY REGION AND WEST JAVA IN 1983

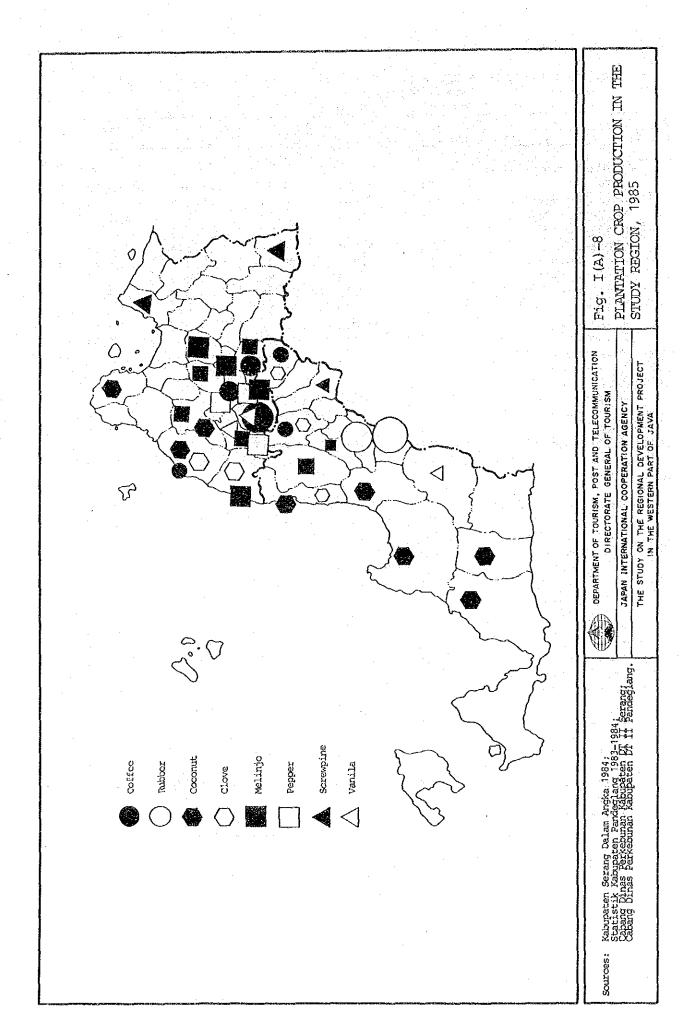
| National Action Specific World Clifford Specific | | | | | and the second | | <u>nit: %)</u> |
|--|--------|---|---|--------------|--|--|----------------|
| | Market | Collector | Cooperative (KUD) | | Self- Consumption | Not- Reported | Total |
| | | | | | | | **** |
| Paddy (Wet) | | | | | en fan de de de gegenede. General | | |
| Serang | 2.39 | 18.11 | 1.53 | 1.90 | 73,57 | 2.50 | 100.0 |
| Pandeglang | 4.47 | 12.59 | 3.41 | 1.83 | 74.68 | 3.02 | 100.0 |
| West Java | 1.73 | 33.91 | 1.82 | 1.89 | 58.48 | 2.16 | 100.0 |
| | | an an an tao an | | | | | · |
| Paddy (Dry) | | | | | | | • |
| Serang | 11.49 | 12.36 | 0.17 | 0.93 | 73.59 | 1.45 | 100.0 |
| Pandeglang | 10.23 | 7.44 | 0.54 | 3.04 | 76.23 | 2.52 | 100.0 |
| West Java | 5.25 | 18.73 | 0.29 | 2.50 | 71.64 | 1.60 | 100.0 |
| | | | | | | · · · · | |
| Maize | | | | g de la se | para di territori di secondo di se | an a | |
| Serang | 36.79 | 29.44 | 0.00 | 4.83 | 28.94 | 0.00 | 100.0 |
| Pandeglang | 31.31 | 16.91 | 0.00 | 9.17 | 40.64 | 1.98 | 100.0 |
| West Java | 13.69 | 31.93 | 0.12 | 6.55 | 47.08 | 0.64 | 100.0 |
| | • | · · · | | · · | • | · . · · | |
| Cassava | | | a da ser a compositor de la compositor de l Persona de la compositor de | | · · · · | | |
| Serang | 31.08 | 31.11 | 0.06 | 8.00 | 29.36 | 0.40 | 100.0 |
| Pandeglang | 13.55 | 16.49 | 0.06 | 12.38 | 56.21 | 1.31 | 100.0 |
| West Java | 10.00 | 43.28 | 0.18 | 6.57 | 39.36 | 0.61 | 100.0 |
| | | | and a second second | | · •. | 1 | 4 |
| Sweet Potato | ès - | | | | | | |
| Serang | 32.45 | 34.02 | 0.00 | 14.61 | 18.72 | 0.20 | 100.0 |
| Pandeglang | 29.04 | | | 9.29 | | 3.83 | 100.0 |
| West Java | 13.24 | 30.37 | 0.11 | 6.53 | 49.02 | 0.73 | 100.0 |
| | | · · · · · · · · · · · · · · · · · · · | | | | | |
| Groundnuts | | | 4 · * | | · · · · · | | |
| Serang | 37.48 | 45.57 | | 3.04 | | | 100.0 |
| Pandeglang | 38.67 | | | 9.60 | 20.34 | 2.56 | 100.0 |
| West Java | 17.94 | 50.41 | 0.11 | 5.86 | 25.12 | 0.56 | 100.0 |
| Soyabeans | | | | · . | | | |
| Serang | 32,28 | 61.85 | 0.00 | 0.00 | 2.93 | 2.93 | 100.0 |
| Pandeglang | 64.19 | 11.74 | | 9.63 | 10.59 | 2.93 | 100.0 |
| West Java | 23.98 | 50.15 | | 9.63 4.79 | 19.82 | 1.10 | |
| ποστ σαγά | 20.90 | 20.12 | 0.10 | 4.19 | 19.82 | 1.10 | 100.0 |

Source: Agricultural Census 1983.

Table I(A)-31 PLANTED AREA AND PRODUCTION OF PLANTATION CROPS IN THE STUDY REGION AND WEST JAVA IN 1985

| | Serang | | Study Area | | (C) / (D) |
|---------------|---------|---------|----------------|----------|-----------|
| | (A) | (B) | (C) | (D) | x 100 |
| Planted Area | (ha) | | | | |
| Coffee | 4,101 | 2,601 | 6 303 | 21 0 6 4 | 21.02 |
| Small Holders | 4,101 | | 6,702 | 21,064 | 31.82 |
| Large Private | | 2,001 | 6,702 | 20,948 | 31.99 |
| State-Owned | - | | | 116 | ~ |
| Rubber | 298 | 6,394 | - | 100 104 | |
| Small Holders | 83 | • • • | 6,692 | 109,174 | 6.13 |
| Large Private | 215 | | 1,877 | 26,083 | 7.20 |
| State-Owned | | 4,009 | 809 | 39,429 | 2.05 |
| Coconut | 31,818 | | 4,009 | 43,662 | 9.18 |
| Small Holders | 31,817 | - | 66,558 | 273,892 | 24.30 |
| Large Private | | - | 66,375 | 262,692 | 25.27 |
| | 1 | 182 | 183 | 2,453 | 7.46 |
| State-Owned | | - | | 8,747 | · |
| Tea | | 12 | 12 | 89,923 | 0.01 |
| Small Holders | - | 12 | 12 | 43,772 | 0.03 |
| Large Private | - | | - . | 17,662 | - |
| State-Owned | - | | - | 28,489 | |
| Clove | 2,317 | - | 6,061 | | |
| Small Holders | 2,316 | 3,744 | 6,060 | 61,954 | 9.78 |
| Large Private | 1 | - | 1 | 6,577 | 0.02 |
| State-Owned | - | | - | 1,908 | - |
| | | - · · · | | | |
| | :on) | | | | |
| Coffee | 1,304 | 689 | 1,993 | 4,710 | 42.31 |
| Small Holders | 1,304 | 689 | 1,993 | 4,707 | 42.34 |
| Large Private | · _ | | _ | 3 | - |
| State-Owned | · | · | - | | - |
| Rubber | 69 | 3,943 | 4,012 | 46,302 | 8.66 |
| Small Holders | 30 | 150 | 180 | 6,639 | 2.71 |
| Large Private | 39 | 393 | 432 | 10,746 | 4.02 |
| State-Owned | - | 3,400 | 3,400 | 28,917 | 11.76 |
| Coconut | 10,766 | 13,054 | 23,820 | 111,495 | 21.36 |
| Small Holders | 10,766 | | 23,753 | 110,984 | 21.40 |
| Large Private | · – | 67 | 67 | 164 | 40.85 |
| State-Owned | - | _ | - | 347 | _ |
| Теа | · · · · | . 1 | 1 | 85,088 | 0.00 |
| Small Holders | _ | 1 | 1 | 20,595 | 0.00 |
| Large Private | | · · · · | - | 14,728 | |
| State-Owned | - | | · _ | 49,765 | _ |
| Clove | 314 | 575 | 889 | 6,681 | 13,31 |
| Small Holders | 314 | 575 | 889 | 6,250 | 14.22 |
| Large Private | 514 | 515 | | 322 | 14,22 |
| - | - | | | | - |
| State-Owned | | - | - | 109 | - |

Source: Jawa Barat Dalam Angka 1984.



A,74

| Tab | le | 1 | (A |
|-----|----|---|------------|
| Tab | le | 1 | { A |

A)-32 PLANTATION CROP PRODUCTION OF SMALLHOLDERS BY RECAMATAN IN THE STUDY REGION IN 1984

| | Kecamatan | Coffee | Rubber | /a Coconut | Clove | Melinio | Kapok | Pepper | a Srewpine/a | Vanila/a | | <u>Unit: ton)</u> Sugarnalm |
|--|--|--------------------|-----------|--|------------|---------|-------|------------|---------------|----------|----------------|--------------------------------|
| ر ۲۰۹۰ میں مرکب کر داری د | | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | - robber - | d oreaprice a | Tanitara | 100 | |
| | on Serang | · · · | | | | | - | | | | | |
| 1. Sera | | . 2 | 2 ° * | 2 | 1 | 135 | 3 | • | | - | - | na |
| 2. Takt | | 44 | - | 244 | - 4 | 325 | 7 | · · - | | | | na |
| 3. Kase | and the second | | ~ | 82 | | 4 | - | | - | - | - | na |
| | natwatu | · · · · · · | · | 144 | - | 14 | . · - | - | · – | - | - | na |
| | inginkurung | 4 | - | 141 | 4 | 42 | 8 | | - | - | | na |
| 6. Ciru | 1 | 6 | · ¬ | / . 46 | - | 14 | | ~ | 31.7 | · - | . . | na |
| 7. Wala | | 2 | • | 87 | | 42 | - | - | - | | - | |
| 8. Krag | The second se | . 1 | · ~ | 61 | | - | . – | | - | - | | na |
| 9. Cika | | 1 | ~ | -48 | | - | 9 | | - | - | | na |
| 10. Pont | age | · · · · · | - | 36 | | · · · | | - | 75.2 | - | - | na |
| 11. Tirt | ayasa | - | ~ | 78 | - | - | 4 | · | | - | - | na |
| 12. Care | anang | 1 . . . | | 33 | . 🕶 | | 3 | - | | - | - | |
| 13. Pama | irayan | . 4 | ÷- | 38 | 2 | · - | 5 | - | 12.4 | | - | na |
| 14. Kopo | > | 8 | | 419 | . 4 | - | 5 | - | 73,7 | | - | na |
| 15. Cike | usal | 10 | - | 210 | 1 | 42 | 4 | 8.32 | - | - | | na |
| 16. Pet1 | r | 20 | ~ | 310 | . 5 | 10 | - | 3,50 | - | | | na |
| 17. Cile | qon | - i - i | | 465 | | · - | 7 | | • • | - | | na. |
| 18. Bojo | negara | | - | 1,361 | - | - | 3 | · _ | - | - | - | na |
| 19. Pulo | merak | ; t 🔁 | ·· · · •• | 513 | · <u>-</u> | | 2 | | 19,8 | - | | |
| 20. Anye | er ' | 94 | • | 1,183 | 80 | 24 | - | | - | - | - | na |
| 21. Cina | ingka | 68 | 5.4 | 942 | 100 | 500 | 4 | 5,70 | - | | - | na |
| 22. Manc | ak | 66 | | 1,923 | . 5 | 239 | 3 | | - | <u></u> | - | |
| 23. Cion | as | 465 | 4.5 | 732 | 25 | 213 | 7 | 13,60 | +- | 6.0 | - | ла |
| 24. Baro |)S | 190 | - | 534 | 12 | 175 | 6 | | <u> -</u> | | - | |
| 25. Pabu | azan 🦾 | 254 | 2.8 | 523 | 13 | 279 | . 10 | 12.75 | | 0.9 | | |
| 26. Pada | rincang | 25 | 10.4 | 572 | 43 | 147 | 4 | | - | 8.0 | | |
| Tota | 1 | 1,265 | 23.1 | 10,727 | 299 | 2,205 | 94 | 68.47 | 212.8 | 14.9 | - | na |
| Kabupat | en Pandegl | 8 7 0 | • | | | 1 | | | | | | |
| 1. Pand | | 40 | - | 185 | 32 | 34 | 2 | 0.30 | - | 0.7 | _ | - |
| 2. Cada | | 98 | 6.2 | 560 | 67 | 39 | 1 | | - | | - | 1.40 |
| 3. Banj | | 42 | 22.1 | 850 | 18 | 39 | 2 | | 44.0 | _ | _ | |
| 4. Cima | | . 23 | 4.2 | 154 | 18 | 11 | 3 | | 5.6 | | - | - |
| | lalawangi | 99 | 22.8 | 95 | 61 | 59 | 7 | | v | 0.3 | 0.9 | - |
| 6. Mene | | 58 | 19.5 | 213 | 28 | 86 | , 1 | 0.90 | - | 4.5 | 0.9 | _ |
| 7. Sake | | 47 | 11.1 | 448 | 47 | 71 | | | | | _ | |
| 8. Bojo | | 43 | 16.9 | 428 | 44 | 47 | | - | - | 0.4 | - | - |
| 9. Munj | | 57 | 11.1 | 334 | 36 | 27 | 7 | | _ | 4,5 | | _ |
| 10. Labu | | 54 | 3.2 | 1,979 | 63 | 52 | 4 | | - | | _ | |
| 11. Jipu | | 33 | 5.3 | 757 | 42 | 98 | 2 | | · •• | 0.3 | | |
| 12. Page | | 33 | - | 1,619 | 21 | 40 | 6 | | | | _ | |
| 13. Ciba | | 14 | 4.9 | 1,630 | 27 | | | | · _ | | _ | |
| 14. Cima | - | 9 | 5,5 | 1,890 | 36 | 12 | 5 | | 6.4 | | | |
| 15. Cigg | | 21 | 14,7 | 1,498 | 26 | 15 | 6 | | | ** | _ | |
| 16. Cike | | 18 | 3,9 | 347 | 11 | 4 | 4 | | - | - | - | 10.25 |
| Tota | 1 | 689 | 151.4 | 12,987 | 577 | 643 | 58 | 7.13 | 56.0 | 6.2 | 0,9 | 61,55 |

Remarks: <u>/a Kabupaten Serang = 1985</u>. Sources: Kabupaten Serang Dalam Angka 1984. Statistik Kabupaten Pandeglang 1983-1984. Cabang Dinas Perkebunan Kabupaten DT II Serang. Cabang Dinas Perkebunan Kabupaten DT II Pandeglang.

The production of rubber was 4,012 tons, respectively 69 tons in Kab. Serang and 3,943 tons in Kab. Pandeglang in 1984. The largest producers are the state owned plantations in two Kec. of saketi and Bojong in Kab. Pandeglang. The second largest producer is Cibiuk Cibogo Plantation (PT. Cibiuk Cibogo) in Kab. Pandeglang. It is very difficult for smallholders to be engaged in rubber production.

The production of coconut was 23,820 tons, respectively 10,766 tons in Kab. Serang and 13,054 tons in Kab. Pandeglang in 1984. Coconut is produced chiefly along the coast line, Kec. Bojonegara, Anyer, Mancak, etc. in Kab. Serang and Kec. Labuan, Pagelaran, Cigeulis, Cimanggu, Cibaliung, etc. in Kab. Pandeglang.

Melinjo is an important material for the emping melinjo of food processing industries. Its production was 2,146 tons in Kab. Serang and 602 tons in Kab. Pandeglang in 1984. The main production centers are Kec. Taktakan, Cinangka, Mancak, Ciomas, Pabuaran, etc. in Kab. Serang. Screw-pine is used as an important material for handicraft. Its production was 213 tons in Kab. Serang and 56 tons in Kab. Pandeglang in Kec. Pontang and Kopo in Kab. Serang and Kec. Banjar in 1984. Kab. Pandeglang are the main producers in the study region. Clove, petter and vanilla are very promising products as mentioned in the part of chili. The main producers of these products are mainly in Kab. Serang, Kec. Anyer and Cinangka for clove, Kec. Ciomas, Pabuaran and Padarincang for pepper and Kec. Ciomas and Padarincang for vanilla.

The productions of plantation crops are carried out by smallholders in the study region. However, plantation crops are very vulnerable to the fluctuation of prices in the market. So it is quite difficult for smallholders to depend entirely on plantation crops. The introduction of a financial supporting system is necessary to help those smallholders. Most of plantation plants in the study region have aged over