

***Attachment LA to Part-L: EXPLANATORY NOTE ON  
PROJECT CYCLE MANAGEMENT***

EXPLANATORY NOTE

ON

PROJECT  
CYCLE  
MANAGEMENT

JANUARY 1998

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# PCM METHOD

## 1. INTRODUCTION

### 1.1 COMPOSITIONS

The Project Cycle Management (PCM) method consists of following three steps;

- 1) Participatory Planning ( PP ),
- 2) Appraisal ( AP ),
- 3) Monitoring and Evaluation ( M & E ).

These three steps are interlinked with each other by a single format called Project Design Matrix ( PDM ), so called the " Logical framework" in USAID, UNICEF and other international organizations.

### 1.2 MAJOR CHARACTERISTICS

The main characteristics of the PCM method is as follows;

- 1) Consistency,
- 2) Logicality, and
- 3) Participatory Approach.

By using this PDM, PCM provides "consistency" on the project management throughout the project cycle: from project identification, formulation, appraisal, implementation, to monitoring and evaluation.

Another attribute of PCM method is its "logicality". It analyzes present conditions and problems by clarifying the causalities or "causes-effects" and through this, a logical "means-ends" relationship can be attained.

"Participatory Approach" is a third characteristic of the method. By having the representatives of the donor organizations, implementing institutions, and target groups participate from the project planning stage, it enables us the best use of knowledge and experiences of each participant, to facilitate communication, to minimize cultural and social impediments, to gain more accurate understanding of the needs of the partner country or the target groups, and to enhance effectiveness and sustainability of the project through establishing consensus.

### 1.3 REMARKS ON APPLICATION

On the other hand, since the PCM method is a general management and operation tool, neutral both to policies and politics of donor and recipient countries, it may not be suitable for deciding on the priorities within the development sectors or among some projects.

Of course, since the PCM method is one of the management tool, technical analysis and other economic and social analysis will be required.

Since the PCM method will be a tool of the project planning based on the needs of partner country and/or target group. Meanwhile, the PDM prepared at the beginning of the stage would

be revised corresponding to the new findings and significant change of environment surrounding to the project.

In addition, it will help to ease to communicate among international development agency. Because PCM method is originated from ZOPP Method which was developed the participatory planning process into PDM by GTZ. Moreover, Monitoring and Evaluation ( M & E ) procedure was added by the Foundation for Advanced Studies on International Development, Japan. Then, JICA also applied this method in the Project Technical Assistant.

### 1.2 PCM WORKSHOP (Picture)

PCM meetings for project planning or evaluation are called "workshops", since active, hands-on contribution is required from all participants. In a PCM workshop, voting should be avoided to arrive at results. Instead of that, the workshop is facilitated by a professional moderator, and each participant is requested to record his/her opinions according to the following rules.

#### RULES OF PCM WORKSHOPS

- 1) Think positively and write your ideas on the card
- 2) Write only one idea per card
- 3) Describe in clear and brief sentences
- 4) Stick to facts and avoid generalization
- 5) Obtain consensus when removing cards from the board
- 6) Do not inquire who wrote the card
- 7) Avoid discussion merely for the sake of discussion

If and when the discussion becomes stagnated, the moderator may use the following "traffic sign cards" to move on to the next step.

Through successive discussion, participants' various ideas, experiences and knowledge will be exchanged. Since those opinions are visualized on the cards, every cards treated as same level cards.

## 2. PARTICIPATORY PLANNING

### 2.1 MAIN STEPS OF PARTICIPATORY PLANING

Participatory Planning begins with the Participation Analysis and ends with the Plan of Operations as follows:

- 1)Participation Analysis,
- 2)Problem Analysis,
- 3)Objectives Analysis,
- 4)Alternatives Analysis,
- 5)Project Design Matrix,
- 6)Plan of Operations.

Participatory Planning of PCM method is divided into two categories of works consisting of four analytical stages in the early stage of the analysis, and two planning stage. So as to analyze existing conditions, such questions as "what is actually happening here?" are asked. As the work proceeds, the argument shifts to seek objectives that are "desirable future conditions". Finally, the means to improve the existing conditions are analyzed.

From the Alternatives Analysis stage and onwards, technical and financial feasibility of the selected project are examined. The results are compiled in the Project Design Matrix, and are broken down further into more detailed and concrete activity plans which comprise the Plan of Operations.

## 2.2 EXPLANATION OF METHOD

### STEP - 1 PARTICIPATION ANALYSIS

National development plans indicate the nation's development priorities and Preferred Sectors. Based on these plans, development projects to be supported by partner government should fulfill the expectations of the recipient government and the people of the project area.

At the beginning of project planning stage, people, groups and organizations which may be affected by the development project are analyzed. This comprehension of social and cultural factors is called the **Participation Analysis**. People, though they might live in the same region, have different interests and problems according to the organizations, societies, or classes to which they belong. Furthermore, there is also the possibility of coexistence of groups of conflicting interests, or of the existence of a group(s) who might protest the development project. It is, therefore, important to get to the core of such potential hindrances by performing the "social factors analysis" at an early stage of the project planning.

#### PROCEDURE OF THE PARTICIPATION ANALYSIS

The major steps of the participation analysis are as follows;

- 1) Record all the persons, groups, organizations and institutions related to or affected by the development project in the area,
- 2) Categorize the groups as follows ,

* Beneficiaries
* Affected groups
* Decision Makers
* Community Leaders
* Potential Opponents
* Funding Agencies
* Implementing Agencies

- 3) Select several groups that are important to the project,
- 4) Analyze the characteristics of each group on following items, and

Item	Remarks
* Characteristics of the group(s)	Social, religious and cultural background, Structures/organizations or conditions etc.
* Interests, Motives, Attitudes of the group(s)	Needs, expectations, hopes, fear, interests, attitude towards other groups etc.
* Strengths & Weaknesses, Potentials, Constraints of the group (s)	
* Potentials of assisting the project implementation	
* Positions or roles of the group(s) within the project	
* Project's direct benefits and impacts towards the group(s)	
* Group's potential factors which could possibly impede project implementation	

#### 5) Select a target group.

Prior to the project planning, it is important to clarify the interests and conflicts between the groups as well as their dependency relationships. At this point, gender differences, and the women's role in the development project should be studied. It is also important to investigate what kind of role the groups can play in the development project, and moreover to comprehend beforehand how the groups might react to the project.

**The target group** is composed of the direct beneficiaries of the project, and in most cases, is selected from the "Beneficiaries Groups". By investigating "which group's benefit or interest should be given higher priority", the target group is selected. Also, by selecting a target group, the question of "whose problem is this?" is clarified and provides a link to the next step, the Problem Analysis, where the core problem is to be found.

During selecting the target group, if consensus cannot be reached, final decision is not required at this stage. Instead, decide tentatively on one group, and alter in the latter stage.



## STEP -2 PROBLEM ANALYSIS

Problem Analysis visually organizes "cause and effect" relationships of the existing problems of the sector. Problem Analysis begins by selecting one focal problem.

### 1. SELECTING A CORE PROBLEM

Each participant of the workshop writes one problem on the card what he/she considers as the central point of the existing problems in the project area or the sector.

The core problem is then selected by all workshop participants by agreeing on one "most focal problem". The core problem does not always mean the "most important problem", as it is only the starting point of constructing a problem tree. Rather, that which covers overall cause-effect relationship in the problematic area is suitable for the core problem.

If the participants cannot agree on the core problem, select tentatively one problem and continue working. Then return to the discussion on the core problem later.

### HOW TO FILL IN THE PROBLEM CARDS

- 1) Identify only existing problems. not theoretical ones.
- 2) Only one problem per card.
- 3) Problems should be described in negative style.
- 4) A problem is not the absence of a solution but an existing negative state.  
Therefore avoid using a statement like "lack of so and so" or "No" is available.

No hospital is available

AVOID

People cannot receive  
modern medical  
treatment

SUITABLE

- 5) Avoid co-existence of "cause and effect" of the problem on the same card.

Frequent floods destroy farms

AVOID

Farms are often damaged  
and destroyed

River is frequently  
flooded

SUITABLE

### 2. DEVELOP A PROBLEM TREE

After deciding on the core problem, place the card in the center of the board. Then, identify substantial and direct causes of the core problem. Next, place the problem cards in parallel with each other underneath the core problem. Add the causes for each problem and work downward, now forming the shape of a tree so called Problem Tree.

In the same way, place the substantial and direct effects of the core problem above it. More effects may be added to each card before finishing the upper half of the tree.

Usually, there are several causes and effects per problem. Also, cards that are identified as independent of each other, or that have the same amount of importance, should be put on the same level. As the Problem Tree is being completed, participants should check for proper wording, adequacy of the cause-effect relationships, and completeness.

### STEP - 3 OBJECTIVES ANALYSIS

In the Objectives Analysis' the problem Tree is transformed into an Objective Tree that describes the means for solving the problems and the effects of the solutions.

The Objectives Tree identifies the "desirable conditions" after the problems are solved, and becomes the basis for the examination of the approaches for improving the situation.

By rewording the negative "Cause-Effect" relations of the Problem Tree into the positive "Means-Ends" relations, "desirable future conditions" can be attained. When the statement on the card cannot be reworded positively, re-examine the problematic situation that the card tries to illustrate. Also, if the "desirable conditions" are excessively unrealistic, or illogical, the cause-effect logic must be re-examined.

#### CAUTION

1. Every cause-effect relationship does not automatically become a means-end relationship.
2. Adding necessary cards or deletion of logically unsuitable cards is permitted.

## STEP-4 ALTERNATIVES ANALYSIS

The Alternatives Analysis identifies the project components and feasibility, and selects concrete project strategies based on the information attained in the Objectives Analysis. The procedures are follows.

### 1. PROCEDURE

When one looks at the Objectives Tree, he/she will be able to see several groups of "Means-Ends" branches that assemble towards the center, each in their own individual orientation.

- 1) Identification of Approach  
identify these approaches.
- 2) Demarcation of Approach  
Enclose those approach by circle line.
- 3) Naming to Approach  
give a name them such as "Production Approach" or "Training Approach".

At times, one or more combined branches, or one part of the branch might become an independent approach which might be an independent project. Moreover, it is possible to enlarge a project by combining two or more approaches, or to select only one part of the branch, or to combine a part of other branch(es) based on consensus of the participants. It is also important to examine who would be affected when certain components are integrated into the project. It is, therefore, advisable to re-examine the result of the Participation Analysis at this stage.

### 2 THE CRITERIA IN SELECTING A PROJECT

After having identified several project options by combining approaches and components, it is important to scrutinize which of the combinations would be the most viable. Although the examination criteria may differ according to the project, workshop participants can select the criteria from among the following:

Criteria	Remarks
Priority	Partner country's development policy and donor's assistance policy
Inputs	Feasibility of cost and manpower, Technical Aspects: Appropriateness of the technology level in relation to Sustainability
Target Group	Size of the target group. ratio of men and women, benefits to priority group etc.
Social Factors	Distribution of costs and benefits, gender issues. socio-cultural constraints, social risks, local involvement and motivation, etc.
Environmental Aspects	Environmental effects, costs vs. benefits
Financial/ Economic aspects	Cost-benefit analysis. economic impacts. financial sustainability, foreign exchange needs, etc.
Achievements	Probability of achieving objectives
Others	Relationship with other donor organizations

When selecting a project, unless past experiences are taken into account, and unless information is logically arranged based on prior analytical process, final materialization of the project will be difficult. In addition, it is preferable to visualize concrete figures in the comparison table, as shown in Example hereafter.

Even if and when there is no need for an alternative option since one option surpasses all others, or when, politically speaking, there is no room for an alternative option, investigation of alternative plans is still beneficial in cases where sudden changes are required at the implementing stage.

**EXAMPLE OF SELECTING A PROJECT**

Criteria	Option 1: Better bus driver project	Option 2: Better bus (vehicle) project	Option 3: Better road project	Option 4: Safe driving project (combination of 1 and 2)
cost	small ( US\$00)	large( US\$00)	large( US\$00)	large( US\$00)
benefit/cost	low 1.1	low 1.12	high 1.3	high 1.25
social risk	small	small	large Traffic close 360 days	small
possibility of reducing accidents	low	low	low	high

## STEP -5 PROJECT DESIGN MATRIX

Project design means the elaboration of the major components of the project. The result of the former analysis is recapitulated in the Project Design Matrix(PDM). The format of PDM is shown on the next page. PDM answers the following questions.

- Why is this project to be implemented?
- What are the objectives?
- How can the objectives be achieved?
- What kind of external factors will play the key role to achieve success?
- How can the project be evaluated?
- What are the inputs for the project?

### 1. NARRATIVE SUMMARY

*Identify Main Project Elements* When the project approach is determined, main elements of the project summary can be derived from the Objectives Tree. The project purpose is set first, then the overall goal is selected.

**1 -1 Project Purpose:** Project purpose is selected from the objective cards that describes the "improved future conditions" of the Objectives Tree. It indicates the "concrete benefit and impacts for the target group(s)" when the project is implemented.

**1-2 Overall Goal:** This is the "long term development objective" to which the project would contribute. Thus, the Overall Goal card is located higher (usually one level) than the Project Purpose card.

**1 -3 Outputs:** These consist of the Objectives which should be achieved within the life of the project. Several outputs are usually set. Outputs can be chosen from the Objectives Tree, but at times, new "outputs" that correspond to the project activities may be added.

**1 -4 Activities:** Activities refer to the actions necessary to produce the outputs of the project. As there are many activities, record only the major activities required to realize each output. It is important to include the monitoring and evaluation activities needed for the management of the project. Each output should be numbered, and the corresponding activities should be written in sequential order.

### 2. IMPORTANT ASSUMPTIONS

**Important Assumptions** are the conditions that must exist if the project is to succeed, but which are outside the control of the project management. The procedure for identifying Important Assumptions starts from the bottom of PDM and works upwards. It becomes easier to identify when such questions as "what are the necessary conditions to attain project outputs

after finishing the activities of the project?" are to be addressed. Also, some elements in the Objectives Tree that were not incorporated in the project may also become the Important

Important Assumptions are written as positive conditions, and must be tangible (if possible, together with verifiable indicators) so that monitoring whether the conditions are met or not, can be done easily.

**Pre-conditions** is stated at the bottom of the right column. Pre-conditions mean pre-requisite conditions needed to start project activities indicated in PDM. Such conditions include "government's arrangement of the budget for the project" or "the availability of technology needed for the activities". When these pre-conditions are not fulfilled, the project cannot be implemented.

**Vertical Logic Of PDM:** The Outputs can be attained when the Activities and the Important Assumptions are fulfilled, the Project Purpose is attained when the Output and the Important Assumptions are fulfilled, the Overall Goal can be achieved when the Project Purpose and the Important Assumptions are fulfilled, and the long term success of the project is assured when the Overall Goal and the Important Assumptions are fulfilled. (Figure)

### 3 VERIFIABLE INDICATORS

Indicators determine how one can measure the achievements of Outputs, Project Purpose and Overall Goal. Good Indicators should be substantial, independent and factual, and include the following elements:

MEASUREMENTS:	BY WHAT
TARGET GROUP:	FOR WHOM
QUANTITY:	HOW MUCH
QUALITY:	HOW WELL
TIME:	BY WHEN
LOCATION:	WHERE

Indicators should be identified objectively so that they can serve as the standard for monitoring and evaluation later.

### 4. MEANS OF VERIFICATION

Whether the targets marked as the **Indicators** have been achieved or not must be confirmed objectively. In order to do so, it is important to specify at the early project planning stage how to verify the achievements. Official statistics, recorded data, reports, and studies can serve as Means of Verification.

Usually, verification means are attained outside the project activities. If, however, the required information cannot be found outside the project, new data must be collected, processed and preserved by the project team. In such cases, it is necessary to add one more item of information gathering into the project activities.

Furthermore, when the costs for collecting information is estimated to be high, alteration of the Indicator may be required. It is also important to examine the reliability of these sources. In the early stages of the project planning, it is difficult to set Verifiable Indicators or Means of Verification since information of the project area is not usually sufficient.

## 5. INPUTS

Detailed estimation of personnel, goods, and costs required to implement the project must be laid out. Moreover, the share of costs between foreign and local cost is to be mentioned. When the input list is completed, re-examination of the relationship of the inputs and outputs. Usually, it takes a long period of time to complete a project, and the cost of inputs is likely to rise over the years. Since it is difficult to predict the inflation rate accurately, this should be treated as one of the project's risk elements.



## STEP - 6 PLAN OF OPERATIONS

The Plan of Operations is what the project implementors prepare based on the PDM and other information. The Plan of Operations is a tool for operational management of the project, and is essential material for monitoring and evaluation. It is also important to note the schedule for monitoring and evaluation of the project as well.

## APPENDIX

### DEFINITIONS

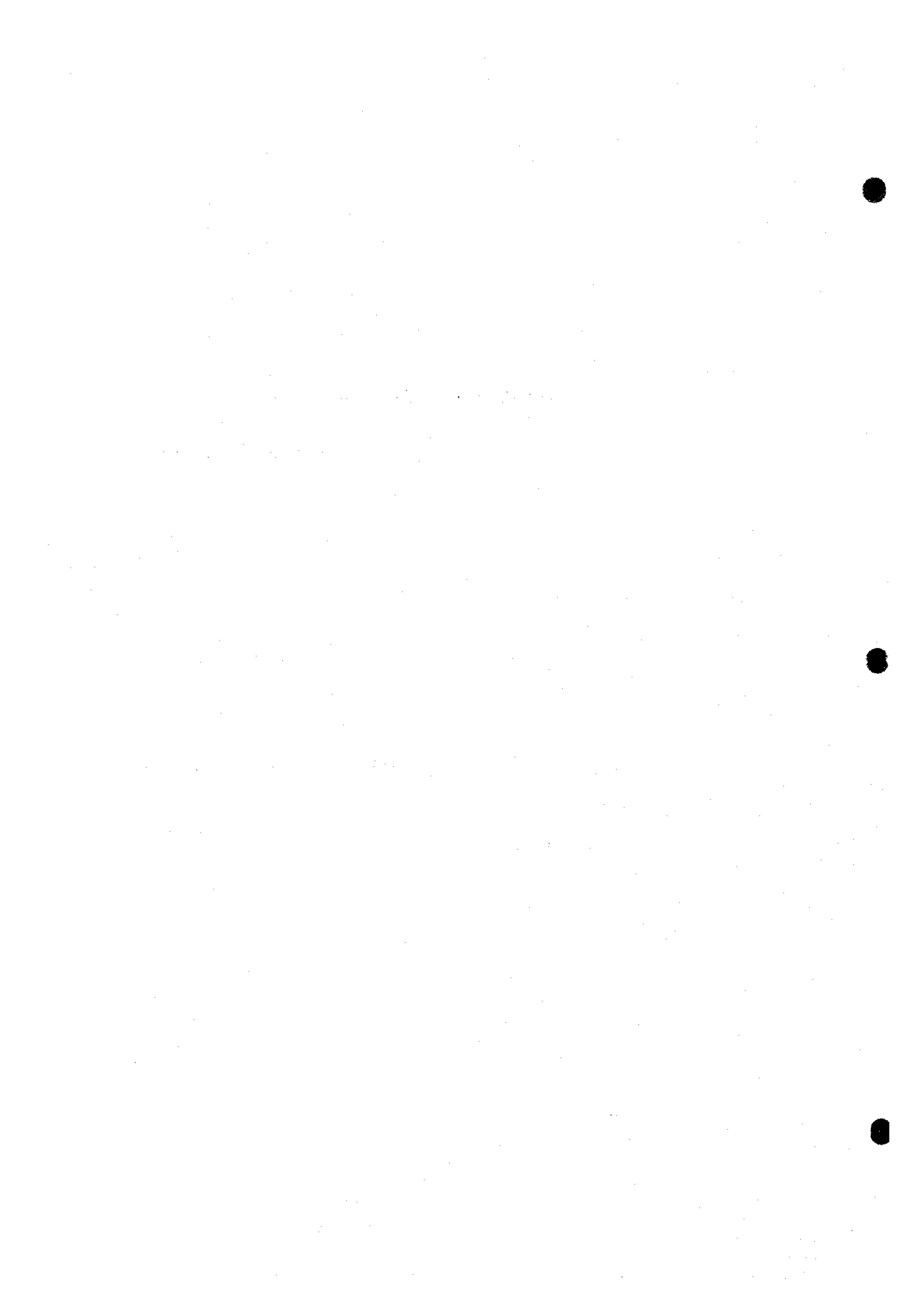
- ACTNITIES:** *Actions taken within a project in order to transform inputs (funds, personnel, goods) into outputs*
- EFFECTIVENESS** *A measure of the extent to which a project is successful in achieving its objectives*
- EFFICIENCY:** *A measure of the productivity of the implementation process. A speed and degree of conversion from the "inputs" into "outputs"*
- EVALUATION:** *The work that compares or assesses the progress situations or results of the Overall Goal, Project Purpose, Output, Important Assumptions to the original or revised plan. Evaluation is done by judging the differences between expectations and results*
- IMPACT :** *The positive and negative changes produced. directly or indirectly, as the result of a project*
- IMPORTNT ASSUMPTIONS :** *External conditions that are necessary for project success, but are completely beyond the control of project management*
- INPUTS :** *The funds, personnel, materials, land, and /or building that are offered by the donor and recipient countries in order to produce outputs through project activities*
- MEANS OF VERIFICATION :** *Means to obtain data for examining the indicators*
- MODERATOR:** *A person who promotes the progress of a workshop, moderates the opinions of the participants. and consolidates the results of the workshop*
- MONITORING :** *Continuous speculation or measurement during the implementation f the project to determine if the Inputs, Activities, Outputs, and Important Assumptions are proceeding according to the plan*
- OUTPUTS:** *The results that should be answered by the project as a consequence of its activities*
- OVERALL GOAL:** *The ultimate and long term objective of the development impact that is expected to be attained after the project purpose is achieved*
- PLAN OF OPERATIONS :** *A plan format that details activities, time, period, budget, inputs, persons in charge, and serves as a base for monitoring and evaluating activities*

- PRE- CONDITIONS** : Necessary conditions that need to be fulfilled before the project is implemented
- PROJECT**                    A planned undertaking designed to achieve specific objectives within a given budget and specified period of time
- PROJECT CYCLE MANAGEMENT**  
**(PCM) METHOD** : A three-step method of Participatory Planning, Appraisal, Monitoring and Evaluation which manages a project via identification, formulation, appraisal, implementation, monitoring, and evaluation
- PROJECT DESIGN MATRIX (PDM)** : A summary table of a project design which describes necessary Inputs, Activities, Outputs, Project Purpose, Overall Goal, Assumptions, Indicators Means of Verification, and the logical relationship between and among them.
- PROJECT PURPOSE**: The effect which a project is expected to achieve if completed successfully and on time The reason for project implementation.
- SUSTAINABILITY**: The extent to which the partner country's institutions would continue to pursue the objectives after the project assistance is over.
- TARGET GROUP**: The direct beneficiaries of the project when undertaken
- VERIFIABLE INDICATORS** : Standards that illustrate objectively the progress and changes that Activities, Outputs, Project Purpose and Overall Goal are to bring about.
- WORKSHOP** : A meeting of parties concerned for project planning or evaluation where the PCM method is employed

**ABBREVIATIONS**

- GTZ**: German Agency for Technical Cooperation  
**NGO**: Non-Governmental Organization  
**NORAD**: Norwegian Agency for Development Cooperation  
**ODA**: Official Development Assistance  
**UNDP** : United Nations Development Programme  
**UNICEF**: United Nations Children's Fund  
**USAID**: United States Agency for International Development  
**ZOPP**: Ziel Orientierte Project Planing (Objectives Oriented Project Planing)

***Attachment LB to Part-L: GUIDE FOR  
MODERATOR***



# **GUIDE FOR MODERATOR**

## **PROJECT CYCLE MANAGEMENT**

**JANUARY 1998**

## 1. Role of A Moderator

The PCM Moderator should be a catalyst in learning and decision- making processes. Accordingly, the moderator should ;

- 1) provide PCM rules for group work or let the group work out the rules itself.
- 2) make it possible for the group to steer itself.
- 3) direct and structure the work to be accomplished by assigning specific task.
- 4) recognize any difficulties participants may have with the PCM method and eliminate them by specific instruction.
- 5) not compete with course participants over competence with regard to the subject under discussion.
- 6) mobilize the group's creative energies.
- 7) create comfortable atmosphere.
- 8) observe moods and encourage reflection.
- 9) praise participants often and encourage them to contribute constructive feedback.
- 10) provoke the uncovering of latent conflict.
- 11) integrate outsiders by carefully acting as a go-between.

## 2. Role of A Moderator

The major role of the PCM moderator are to be during group work as follows;

### 1) INSTRUCTION

The moderator would give a instruction by the card(visualization) in parallel with clear word and guide discussion through inputting knowledge relating with situation in discussion, answering any questions. If subjects of the discussion are not his/her specialty, finding proper person without a moment's delay.

### 2) STEERING OF GROUP WORK

Throughout group works, the moderator would observe group works carefully, and structure the group works in the right direction.

### 3) HANDING THE PROCESS OF GROUP DYNAMICS

Interruption, distraction, and disruption, handling opposition, protest, conflicts within the group.

### 4) EVALUATION AND MONITORING GROUP PROCESS

Through observation and assessment of the atmosphere within the group, positive modification of the atmosphere would be made by elimination of discord.



STEP	Instructions	Remarks
<p>1. Participation Analysis</p> <p>1) Identification of participants</p>	<p>1. Write down randomly the name of all interest groups, institutions, personnel and organization which are located in the region/project area.</p> <p>institutions and/or organization which are located in the project area and which may be affected or influenced by or involved in the potential project.</p> <p>Confirm major participants are included</p>	<p>Government organization, private sector</p> <p>Internal -- external</p> <p>check groups and persons is homogeneous unit, same interest and problem</p>
<p>2) Categorization</p>	<p>ask to pick up items of categorization</p> <p>show " Beneficiary" and ask more cards as FLGS</p> <p>Implementation agency</p> <p>Potential opponent</p> <p>Funding agency</p> <p>Supporting agency (representative group of people in water resources Basin to be included)</p>	<p>Clustering</p> <p>ask about NGO</p> <p>(if no response OK)</p> <p>some card duplicate in the categories</p>
<p>3) Detailed Participation Analysis</p>	<p>Pick up cards from beneficiary, and one card from implementation agency and/or potential opponent</p>	<p>Characteristic (Problem, verifiable expression is preferable) Needs</p>

	ask on the cards main problems that exist for each category of participants.	Potentials  Project implication Detailed group organization
4) Decide Target group		Tentatively ok

STEP	Instructions	Remarks
<p>1. Problem Analysis</p> <p>1) Problem identification</p> <p>2) Define core problem</p>	<p>Write down core problems on the cards that exist for the target group</p> <p>Problems are expressed as negative conditions.</p> <p>core problem is starting point for analysis, and it is always problems of the target group.</p>	<p>Ex. Public information campaigns are not effective.</p> <p>Ex. Bus accidents frequently occur</p>
<p>3) Process of define core problem</p> <p>4) Finding Direct causes</p>	<p>1) ask to write down core problem per card.</p> <p>2) pick up one cards supposing far below card.</p> <p>3) show other cards above and below each other in cause-effect relationship.</p> <p>4) ask core problem as starting point for analysis</p> <p>5) decide on one core problem as tentatively if it is difficult to reach consensus.</p> <p>ask direct causes of the core problem.</p>	<p>do not spend too much time for decision.</p> <p>You may say, it is possible to change in later.</p> <p>Avoid to formal voting</p> <p>ask sufficiency of direct causes. mostly, more than 4 causes.</p> <p>check jumping logic, hierarchy.</p> <p>Expression of direct causes are placed same level underneath one problem.</p>

STEP	Instructions	Remarks
1. Problem Analysis		
5) Share the group	ask share the group into number of direct causes.	you take initiative to sharing group.
6) Development of analysis	ask develop analysis by same principle	you can share group into sub-groups. minimum 2 persons
7) Finding Direct Effects	ask direct causes of the core problem.  ensure the group the analysis are carried out satisfactorily.	you have to ask a group which completed.  check major item, advice some aspects which the group neglected.
8) Finalization of analysis	draw line linking each cards	

STEP	Instructions	Remarks
1. Objective Analysis 1) Transformation	transform core problem to core objective	positive statement of a desired future condition to be achieved.
2) Developing Objective Analysis	rewrite problems to solutions from top to downward	Transformation is not automatically.
3) Check rewording	1) whether the statement is same meaning fo cards linking. 2) Then, return to Problem Analysis to expess more clearly. 3) if one objectives may not be attained by rewording of problem tree, add more cards to attain one objective	
4) Finalization of Objectives Analysis	ensure that cause - effect relationships have become means-ends relationships.	

STEP	Instructions	Remarks
i. Objective Analysis 1) Identification of Approach	identify the related means-ends cluster in the Objectives Tree.  Draw a circle around the means-ends cluster by red color pen.	consider operation unit, such as sections, department  one approach may be handled by one section or dept..
2) Naming to Approach	give a name to each approached representing its activity.	improvement wate supply system approach
3) Selection of Approach	1) Selecting criteria  Target group, size, number, composition development policy priority Specific conditions in the country  fund available sustainability Technical inpt Environmental Impact input human resources, fund, input material B/C impact of the project Relationships to other doner	describe in detail as much as possible
4) Comparison of Approach	indicate matrix approach and selection criteria	
5) Detailed Alternative analysis	Explain technical study	4 Plans are prepared by the consultant.

STEP	Instructions	Remarks
<b>I. FILLING PDM</b> 1) Project Purpose              2) Overall goal	What is the combined effect of the project              Why the project will be carried out?	Top cards which is demarkated by line as project approach.              It is a direct result of outputs of the project.              Long term goal, which is not possible to reach goal.
3) Outputs	which should be achieved within the life of the project.	to chose from the ojective tree              new outputs required to achieve the project purpose
4) Activities	activities refer to the actions necessary to attain the outputs of the project.	Activities are coresponding to outputs              Activities are written in sequential order.

STEP	Instructions	Remarks
<b>1. FILLING PDM</b> <b>1) Preconditions</b>	ask the prerequisite conditions in order to start up the project.	government's arrangement, fund, assignment of staff, etc., technology the matter to be settled by the government, such as land acquisition.
<b>2) Important Assumptions</b>	ask the matters which outside the control of the project management.	Excluded approach in the objective tree.  natural conditions funds personnel system other project progress
<b>3) Killer Assumption</b>	ask to check whether it will be a killer assumption.	use flip chart



STEP	Instructions	Remarks
1. <b>FILLING PDM</b> 1) <b>Objectively Verifiable Indicators</b>	time period, location or place, quality, quantity	show the countable targets  if possible, interval targets are also indicated
2) <b>Means of Verification</b>	what information is to be made available in what form the information is to be found where the evidence is to be found	check reliability how costly the information may be obtain.  base line survey

*Part - M*

**WATER DEMAND BY ADMINSTRATIVE REGION**

## **Part - M WATER DEMAND BY ADMINSTRATIVE REGION**

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**Attachment to Part-M : SOCIO-ECONOMIC DATA BY ADMINISTRATIVE REGION**

## **Part - M WATER DEMAND BY ADMINISTRATIVE REGION**

### **M1 Introduction**

The land of the Philippines is delineated under two different categories, namely boundaries of the water resources regions (WRR) and administrative or political regions.

In principle, this Study focuses on projecting water demands on the basis of the water resources region in order to compare them with the water resources potentials. The boundaries of the water resources regions are more applicable for estimating water resources potential, especially surface water potential, as they precisely correspond to the hydrological boundaries. Thus, the socio-economic and water demand projection in parts of the Final Report other than this Part-M aims to ultimately derive the results on the basis of the water resources region.

In addition to the water demand projection by water resources region, this Study attempted to estimate the water demands for the respective administrative regions. In this Part-M, the recent demarcation of administrative regions was applied.

The water demands for the respective administrative regions were estimated for the following three major water use sectors, the same as was made on the basis of the water resources region:

- Municipal water demand
- Industrial water demand
- Agricultural water demand

To estimate the agricultural water demands for the respective administrative regions, the areas where irrigation areas lie were delineated on the available topographic maps including those of 1 to 50,000 scale. Concerning the municipal and industrial water demands, the same methodologies as explained in Part-B of the Supporting Report were utilized after the areas of the water demands were delineated on those topographic maps.

## **M2 Estimated Water Demand by Administrative Region**

### **M2.1 Municipal and Industrial Water Demand by Administrative Region**

Prior to the estimation of water demands by administrative region, the socio-economic projection was made on a provincial basis for the following socio-economic indices:

- Population
- Employment
- GRDP

The results of the socio-economic projection are compiled in the Attachment to Part-M : **SOCIO-ECONOMIC CONDITION BY ADMINSTRATIVE REGION.**

In succession, the municipal and industrial water demands for each province were projected applying those socio-economic indices. The estimated municipal and industrial water demands in the high economic growth scenario are tabulated in Table M-1.

Of the administrative regions, the administrative region IV (Southern Tagalog), NCR and administrative region III (Central Luzon) are ranked the highest in terms of the municipal and industrial water demands. The sum of the water demands of these three administrative regions in the year 2025 is projected to reach 6,507 MCM, which is equivalent to about 52.3 % of the total municipal and industrial water demand of the country at 12,427 MCM as shown below:

Administrative Region	M&I demand in Year 2025 (MCM)	Share (%)
NCR,AR-III & -IV	6,507	52.3
Other Regions	5,920	47.7
Philippines	12,427	100.0

Note : AR means the administrative region.

### **M2.2 Agricultural Water Demand by Administrative Region**

The agricultural water demands for the respective administrative regions were estimated for the following sub-sectors as was the case for the projection carried out on the basis of the water resources region:

- Irrigation
- Livestock/poultry
- Fisheries

As mentioned above, the irrigation areas were laid out on the available topographic maps

to delineate them in accordance with boundaries of the administrative regions.

The projection results show that the administrative regions III (Central Luzon) and II (Cagayan Valley) have the highest shares of the agricultural water demand. The water demands of these two administrative regions in the year 2025 are projected to reach 22,545 MCM, accounting for about 30.9 % of the total agricultural water demand in the country at 72,973 MCM as shown below:

Administrative Region	M&I demand in Year 2025 (MCM)	Share (%)
AR-II & -III	22,545	30.9
Other Regions	50,428	69.1
Philippines	72,973	100.0

Note : AR means the administrative region.

### M2.3 Total Water demand by Administrative Region

The total water demands by administrative regions are shown in Table M-3 and summarized below:

Summary of Water Demand by Administrative Region  
(High Economic Growth Scenario)

Administrative Region	(Unit : MCM/year)							Share in Year 2025 (%)
	Year							
	1996	2000	2005	2010	2,015	2,020	2,025	
NCR	985	1,300	1,480	1,681	1,862	1,919	2,127	2.5
CAR	1,153	1,689	1,867	2,019	2,247	2,423	2,572	3.0
AR-I (Ilocos)	2,585	3,793	5,198	5,528	6,012	6,275	6,613	7.7
AR-II (Cagayan Valley)	3,454	4,832	5,596	6,612	8,010	9,202	10,426	12.2
AR III (Central Luzon)	5,110	8,177	9,818	10,614	11,734	12,550	13,734	16.1
AR IV (Southern Tagalog)	2,907	3,889	4,407	5,141	6,071	7,062	8,349	9.8
AR V (Bicol)	1,415	2,034	2,443	2,846	3,345	3,735	4,164	4.9
AR VI (Western Visayas)	3,246	4,459	5,341	6,082	6,604	6,989	7,616	8.9
AR VII (Central Visayas)	917	1,390	1,789	1,953	2,180	2,397	2,713	3.2
AR VIII (Eastern Visayas)	659	1,114	1,380	1,488	1,646	1,775	1,955	2.3
AR IX (Western Mindanao)	1,934	2,685	2,995	3,266	3,589	3,836	4,201	4.9
AR X (Northern Mindanao)	775	1,056	1,310	1,507	1,794	2,074	2,394	2.8
AR XI (Southern Mindanao)	2,445	2,942	3,236	3,894	4,875	5,769	6,731	7.9
AR XII (Central Mindanao)	1,457	2,239	3,039	3,509	4,148	4,719	5,326	6.2
ARMM	209	680	1,396	1,817	2,369	2,905	3,456	4.0
CARAGA	703	1,072	1,544	1,840	2,237	2,609	3,024	3.5
Philippines	29,954	43,353	52,838	59,795	68,723	76,238	85,400	100.0

Note : AM means the administrative region.

*Part - M*

*Tables*

**Table M-1 MUNICIPAL AND INDUSTRIAL WATER DEMAND BY ADMINISTRATIVE REGION (High Economic Growth Scenario) (1/6)**

(Unit : MCM/year)

Administrative Region/Province		1996	2000	2005	2010	2015	2020	2025
NCR	Municipal	816.58	1,104.82	1,268.24	1,411.37	1,586.90	1,599.06	1,726.44
	Industrial	82.73	82.77	91.25	114.36	144.61	183.31	255.01
	<b>Total</b>	<b>899.30</b>	<b>1,187.59</b>	<b>1,359.49</b>	<b>1,555.73</b>	<b>1,731.51</b>	<b>1,782.37</b>	<b>1,981.46</b>
CAR	Municipal	23.16	30.98	41.73	54.25	68.91	85.70	105.06
	Industrial	76.20	81.18	85.05	90.72	98.54	109.67	125.81
	<b>Total</b>	<b>99.36</b>	<b>112.16</b>	<b>126.78</b>	<b>144.97</b>	<b>167.44</b>	<b>195.37</b>	<b>230.86</b>
Abra	Municipal	3.65	4.55	5.91	7.39	8.99	10.65	12.45
	Industrial	15.77	16.67	17.44	18.60	20.21	22.51	25.85
	<b>Total</b>	<b>19.41</b>	<b>21.21</b>	<b>23.35</b>	<b>25.99</b>	<b>29.20</b>	<b>33.16</b>	<b>38.30</b>
Benguet	Municipal	14.96	20.25	27.35	35.77	45.58	58.11	72.17
	Industrial	46.24	48.88	51.14	54.54	59.27	66.01	75.81
	<b>Total</b>	<b>61.20</b>	<b>69.13</b>	<b>78.49</b>	<b>90.32</b>	<b>104.85</b>	<b>124.12</b>	<b>147.98</b>
Ifugao	Municipal	1.37	1.98	2.65	3.33	4.08	4.77	5.56
	Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Total</b>	<b>1.37</b>	<b>1.98</b>	<b>2.65</b>	<b>3.33</b>	<b>4.08</b>	<b>4.77</b>	<b>5.56</b>
Kalinga Apayao	Municipal	2.02	2.83	4.09	5.61	7.35	9.35	11.73
	Industrial	14.19	18.63	16.47	17.58	19.05	21.15	24.15
	<b>Total</b>	<b>16.21</b>	<b>18.47</b>	<b>20.56</b>	<b>23.19</b>	<b>26.40</b>	<b>30.50</b>	<b>35.88</b>
Mt. Province	Municipal	1.16	1.37	1.73	2.14	2.51	2.82	3.15
	Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Total</b>	<b>1.16</b>	<b>1.37</b>	<b>1.73</b>	<b>2.14</b>	<b>2.51</b>	<b>2.82</b>	<b>3.15</b>
Adm. Region I	Municipal	59.25	76.88	103.00	133.73	169.82	211.40	260.61
	Industrial	24.89	26.81	30.26	35.41	42.91	53.54	68.40
	<b>Total</b>	<b>84.14</b>	<b>103.69</b>	<b>133.25</b>	<b>169.15</b>	<b>212.73</b>	<b>264.95</b>	<b>329.01</b>
Ilocos Norte	Municipal	9.78	11.76	14.34	17.06	20.00	22.74	25.84
	Industrial	7.82	8.27	8.65	9.23	10.02	11.16	12.82
	<b>Total</b>	<b>17.60</b>	<b>20.02</b>	<b>22.99</b>	<b>26.28</b>	<b>30.03</b>	<b>33.91</b>	<b>38.66</b>
Ilocos Sur	Municipal	6.91	9.03	11.80	14.94	18.18	21.36	25.04
	Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Total</b>	<b>6.91</b>	<b>9.03</b>	<b>11.80</b>	<b>14.94</b>	<b>18.18</b>	<b>21.36</b>	<b>25.04</b>
La Union	Municipal	10.02	12.45	15.92	19.90	24.47	29.47	35.01
	Industrial	3.11	3.28	3.44	3.66	3.98	4.43	5.09
	<b>Total</b>	<b>13.12</b>	<b>15.73</b>	<b>19.35</b>	<b>23.56</b>	<b>28.45</b>	<b>33.90</b>	<b>40.10</b>
Pangasinan	Municipal	32.54	43.65	60.94	81.83	107.17	137.84	174.73
	Industrial	13.96	15.26	18.17	22.53	28.91	37.94	50.57
	<b>Total</b>	<b>46.50</b>	<b>58.91</b>	<b>79.11</b>	<b>104.36</b>	<b>136.07</b>	<b>175.78</b>	<b>225.31</b>
Adm. Region II	Municipal	26.77	37.06	50.39	65.71	82.51	99.69	118.52
	Industrial	1.94	2.13	2.25	2.40	2.60	2.89	3.30
	<b>Total</b>	<b>28.71</b>	<b>39.20</b>	<b>52.64</b>	<b>68.11</b>	<b>85.11</b>	<b>102.57</b>	<b>121.82</b>
Batanes	Municipal	0.16	0.25	0.35	0.50	0.62	0.79	1.01
	Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Total</b>	<b>0.16</b>	<b>0.25</b>	<b>0.35</b>	<b>0.50</b>	<b>0.62</b>	<b>0.79</b>	<b>1.01</b>
Cagayan	Municipal	10.88	13.26	16.82	20.69	24.46	28.11	31.74
	Industrial	0.13	0.14	0.15	0.16	0.17	0.19	0.21
	<b>Total</b>	<b>11.01</b>	<b>13.40</b>	<b>16.97</b>	<b>20.85</b>	<b>24.63</b>	<b>28.29</b>	<b>31.95</b>
Isabela	Municipal	11.97	17.83	24.68	32.57	41.28	49.91	59.47
	Industrial	1.81	1.99	2.10	2.24	2.43	2.70	3.08
	<b>Total</b>	<b>13.78</b>	<b>19.82</b>	<b>26.78</b>	<b>34.81</b>	<b>43.71</b>	<b>52.60</b>	<b>62.55</b>
Nueva Vizcaya	Municipal	2.71	4.21	6.30	8.75	11.64	14.85	18.37
	Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Total</b>	<b>2.71</b>	<b>4.21</b>	<b>6.30</b>	<b>8.75</b>	<b>11.64</b>	<b>14.85</b>	<b>18.37</b>



**Table M-1 MUNICIPAL AND INDUSTRIAL WATER DEMAND BY REGION (High Economic Growth Scenario) (2/6)**

(Unit : MCM/year)

Administrative		1996	2000	2005	2010	2015	2020	2025
Region/Province								
Quirino	Municipal	1.05	1.51	2.24	3.20	4.52	6.03	7.94
	Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	1.05	1.51	2.24	3.20	4.52	6.03	7.94
Adm. Region III	Municipal	176.88	244.61	333.85	427.08	536.44	654.84	786.11
	Industrial	195.34	213.52	254.23	315.17	404.46	530.88	707.62
	Total	372.22	458.12	588.08	742.25	940.90	1,185.72	1,493.73
Bataan	Municipal	23.59	30.57	40.36	50.72	61.49	72.50	83.83
	Industrial	22.99	25.13	29.92	37.09	47.60	62.48	83.28
	Total	46.58	55.70	70.28	87.82	109.09	134.97	167.11
Bulacan	Municipal	37.79	55.45	81.58	107.50	141.52	178.67	220.83
	Industrial	20.30	22.19	26.42	32.76	42.04	55.18	73.55
	Total	58.09	77.64	108.00	140.26	183.56	233.84	294.38
Nueva Ecija	Municipal	28.88	33.45	41.22	48.24	55.77	62.89	70.50
	Industrial	0.13	0.14	0.16	0.20	0.26	0.34	0.46
	Total	29.00	33.59	41.39	48.45	56.03	63.23	70.96
Pampanga	Municipal	44.76	71.50	104.39	141.64	185.00	234.19	290.21
	Industrial	44.43	48.56	57.82	71.68	91.99	120.74	160.93
	Total	89.18	120.06	162.21	213.31	276.99	354.92	451.15
Tarlac	Municipal	17.80	23.22	30.49	37.95	46.11	54.20	62.05
	Industrial	4.83	5.28	6.28	7.79	10.00	13.12	17.49
	Total	22.62	28.50	36.77	45.74	56.10	67.32	79.54
Zambales	Municipal	24.07	30.42	35.80	41.02	46.55	52.40	58.68
	Industrial	102.67	112.22	133.62	165.65	212.58	279.02	371.92
	Total	126.74	142.64	169.42	206.67	259.13	331.43	430.60
Adm. Region IV	Municipal	446.32	522.01	635.85	815.16	912.94	1,102.52	1,357.88
	Industrial	543.03	543.31	598.97	750.67	949.24	1,236.07	1,673.91
	Total	989.35	1,065.32	1,234.82	1,565.83	1,862.18	2,338.59	3,031.79
Aurora	Municipal	1.54	2.41	3.89	6.07	9.28	13.62	19.51
	Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	1.54	2.41	3.89	6.07	9.28	13.62	19.51
Batangas	Municipal	40.69	58.17	80.59	105.20	134.98	168.79	204.90
	Industrial	197.56	197.66	217.91	273.10	345.34	449.69	608.98
	Total	238.25	255.83	298.50	378.30	480.32	618.48	813.88
Cavite	Municipal	116.81	116.76	120.55	147.89	179.03	210.95	256.31
	Industrial	21.75	21.76	23.99	30.06	38.01	49.50	67.03
	Total	138.56	138.51	144.54	177.96	217.04	260.45	323.34
Laguna	Municipal	30.77	49.02	77.75	114.48	145.79	182.19	229.48
	Industrial	71.65	71.69	79.04	99.05	125.26	163.10	210.83
	Total	102.43	120.71	156.78	213.54	271.04	345.29	440.31
Marinduque	Municipal	1.47	2.30	3.45	4.43	5.41	6.29	7.27
	Industrial	37.98	38.00	41.89	52.50	66.39	85.46	117.08
	Total	39.45	40.30	45.34	56.93	71.80	92.74	124.35
Mindoro Occ.	Municipal	3.49	6.35	10.73	16.48	24.43	34.67	45.83
	Industrial	0.11	0.11	0.13	0.16	0.20	0.26	0.35
	Total	3.60	6.46	10.85	16.64	24.63	34.93	46.18
Mindoro Oriental	Municipal	6.57	9.84	13.53	17.64	22.55	27.23	32.66
	Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	6.57	9.84	13.53	17.64	22.55	27.23	32.66
Palawan	Municipal	9.78	16.26	26.24	39.60	58.18	81.91	113.64
	Industrial	22.77	22.78	25.11	31.48	39.80	51.83	70.19
	Total	32.55	39.04	51.36	71.07	97.98	133.74	183.83

**Table M-1 MUNICIPAL AND INDUSTRIAL WATER DEMAND BY REGION (High Economic Growth Scenario) (4/6)**

(Unit : MCM/year)

Administrative Region/Province		1996	2000	2005	2010	2015	2020	2025
Adm. Region VII	Municipal	121.28	180.41	254.14	331.47	412.02	492.14	568.60
	Industrial	165.75	166.38	234.67	248.74	316.09	407.38	541.25
	Total	287.03	346.82	488.81	580.21	728.10	899.52	1,109.85
Bohol	Municipal	9.80	14.92	22.30	31.72	43.41	57.83	75.68
	Industrial	1.62	1.62	2.29	2.43	3.08	3.97	5.28
	Total	11.41	16.54	24.59	34.14	46.50	61.80	80.96
Cebu	Municipal	93.72	143.16	202.60	262.82	322.93	379.03	426.53
	Industrial	120.78	121.24	170.99	181.25	230.32	296.84	394.40
	Total	214.50	264.40	373.69	444.07	553.25	675.88	820.93
Negros Oriental	Municipal	16.18	20.43	26.81	34.13	42.34	51.41	61.86
	Industrial	43.36	43.52	61.38	65.06	82.68	106.56	141.58
	Total	59.54	63.95	88.19	99.19	125.02	157.96	203.44
Siquijor	Municipal	1.59	1.93	2.34	2.80	3.34	3.88	4.53
	Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	1.59	1.93	2.34	2.80	3.34	3.88	4.53
Adm. Region VIII	Municipal	46.82	62.68	85.27	112.42	144.55	181.61	236.31
	Industrial	31.39	49.80	62.44	80.88	106.66	143.14	195.52
	Total	78.21	112.48	147.71	193.30	251.21	324.75	431.83
Northern Leyte	Municipal	26.74	34.71	46.08	59.33	75.44	94.15	116.72
	Industrial	29.66	47.05	58.99	76.41	100.76	135.23	184.72
	Total	56.39	81.76	105.07	135.75	176.21	229.38	301.43
Biliran	Municipal	2.62	3.22	4.08	5.00	6.10	7.27	8.62
	Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	2.62	3.22	4.08	5.00	6.10	7.27	8.62
Southern Leyte	Municipal	3.64	5.33	7.46	9.94	12.61	15.52	18.75
	Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	3.64	5.33	7.46	9.94	12.61	15.52	18.75
Eastern Samar	Municipal	3.71	5.49	8.14	11.18	14.49	18.06	21.89
	Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	3.71	5.49	8.14	11.18	14.49	18.06	21.89
Northern Samar	Municipal	4.01	6.03	8.31	11.51	15.07	18.98	24.89
	Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	4.01	6.03	8.31	11.51	15.07	18.98	24.89
Western Samar	Municipal	6.09	7.90	11.19	15.45	20.85	27.62	35.45
	Industrial	1.73	2.75	3.45	4.47	5.89	7.91	10.80
	Total	7.83	10.65	14.64	19.92	26.74	35.53	46.25
Adm. Region IX	Municipal	56.90	78.40	109.44	147.23	192.07	244.60	295.34
	Industrial	5.65	13.70	25.52	32.47	41.95	56.31	77.85
	Total	62.55	92.10	134.96	179.70	234.02	300.92	373.20
Basilan	Municipal	6.65	8.68	11.73	16.13	21.52	27.74	32.10
	Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	6.65	8.68	11.73	16.13	21.52	27.74	32.10
Zamboanga Norte	Municipal	9.52	12.44	16.92	21.94	27.24	32.82	38.78
	Industrial	0.03	0.07	0.13	0.16	0.21	0.28	0.39
	Total	9.54	12.51	17.05	22.10	27.45	33.10	39.17
Zamboanga Sur	Municipal	40.73	57.28	80.79	109.15	143.31	184.04	224.46
	Industrial	5.63	13.64	25.39	32.31	41.74	56.03	77.46
	Total	46.36	70.92	106.18	141.46	185.05	240.07	301.92

**Table M-1 MUNICIPAL AND INDUSTRIAL WATER DEMAND BY REGION (High Economic Growth Scenario) (3/6)**

(Unit : MCM/year)

Administrative Region/Province		1996	2000	2005	2010	2015	2020	2025
Quezon	Municipal	50.16	65.85	83.94	100.75	117.49	132.24	145.42
	Industrial	4.14	4.14	4.57	5.73	7.24	9.43	12.77
	Total	54.30	70.00	88.51	106.48	124.73	141.67	158.19
Rizal	Municipal	182.68	190.50	208.42	253.34	303.25	358.08	451.50
	Industrial	187.06	187.16	206.33	258.59	326.99	425.80	576.63
	Total	369.14	377.66	414.75	511.93	630.25	783.88	1,028.12
Romblon	Municipal	2.96	4.55	6.77	9.27	12.56	16.55	21.37
	Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	2.96	4.55	6.77	9.27	12.56	16.55	21.37
Adm. Region V	Municipal	73.41	95.81	121.23	151.72	186.02	222.55	260.70
	Industrial	19.84	23.88	25.43	27.65	30.66	34.84	41.13
	Total	93.25	119.69	146.67	179.37	216.68	257.39	301.83
Albay	Municipal	20.16	24.88	31.74	38.98	46.20	53.50	61.13
	Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	20.16	24.88	31.74	38.98	46.20	53.50	61.13
Camarines Norte	Municipal	8.87	11.21	14.41	17.72	21.50	25.46	27.25
	Industrial	5.02	6.04	6.44	7.00	7.76	8.82	10.41
	Total	13.89	17.25	20.85	24.72	29.26	34.28	37.66
Camarines Sur	Municipal	23.23	31.95	43.41	56.25	71.45	88.05	107.21
	Industrial	2.68	3.22	3.43	3.73	4.14	4.70	5.55
	Total	25.91	35.18	46.84	59.98	75.59	92.76	112.76
Catanduanes	Municipal	4.05	4.96	6.31	8.02	10.24	13.10	16.41
	Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	4.05	4.96	6.31	8.02	10.24	13.10	16.41
Masbate	Municipal	6.09	10.10	9.85	12.55	15.44	18.49	21.93
	Industrial	12.14	14.61	15.56	16.92	18.76	21.32	23.17
	Total	18.23	24.71	25.42	29.46	34.21	39.81	47.09
Sorsogon	Municipal	11.01	12.71	15.51	18.20	21.19	23.94	26.78
	Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	11.01	12.71	15.51	18.20	21.19	23.94	26.78
Adm. Region VI	Municipal	98.87	138.23	191.92	254.32	326.90	407.20	500.82
	Industrial	569.26	570.24	558.05	595.24	601.16	605.81	609.34
	Total	668.14	708.46	779.98	849.56	928.06	1,013.01	1,110.16
Aklan	Municipal	7.89	9.53	12.32	16.00	20.99	27.31	35.51
	Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	7.89	9.53	12.32	16.00	20.99	27.31	35.51
Antique	Municipal	5.17	7.46	10.25	13.54	17.50	21.87	27.08
	Industrial	0.54	0.54	0.55	0.56	0.57	0.57	0.57
	Total	5.71	7.99	10.80	14.10	18.07	22.44	27.66
Capiz	Municipal	9.30	12.95	18.93	26.76	36.78	49.31	65.07
	Industrial	2.08	2.09	2.15	2.18	2.20	2.22	2.23
	Total	11.38	15.04	21.08	28.94	38.98	51.52	67.30
Iloilo	Municipal	27.81	40.95	57.62	76.98	100.41	126.70	157.48
	Industrial	1.55	1.56	1.61	1.63	1.64	1.65	1.66
	Total	29.37	42.50	59.23	78.61	102.06	128.35	159.14
Guimaras	Municipal	1.85	2.83	4.03	5.50	7.27	9.28	11.62
	Industrial	1.58	1.58	1.63	1.65	1.67	1.68	1.69
	Total	3.42	4.41	5.66	7.15	8.94	10.95	13.30
Negros Occidental	Municipal	46.85	64.52	88.77	115.53	143.94	172.75	204.06
	Industrial	563.51	564.47	582.11	589.22	595.08	599.69	603.18
	Total	610.36	628.99	670.88	704.75	739.02	772.43	807.24

**Table M-1 MUNICIPAL AND INDUSTRIAL WATER DEMAND BY REGION (High Economic Growth Scenario) (5/6)**

(Unit : MCM/year)

Administrative Region/Province		1996	2000	2005	2010	2015	2020	2025
Adm. Region X	Municipal	60.75	79.75	109.45	144.81	187.21	232.05	279.65
	Industrial	200.79	199.59	206.84	209.48	230.12	260.83	309.85
	Total	261.55	279.34	316.28	354.32	417.32	492.88	589.50
Bukidnon	Municipal	12.44	19.05	28.81	41.68	58.05	77.79	101.68
	Industrial	85.09	84.58	87.66	89.78	97.52	110.54	131.31
	Total	97.53	103.63	116.46	130.46	155.57	188.33	232.99
Misamis Oriental	Municipal	37.23	45.36	59.08	74.36	91.81	108.52	122.13
	Industrial	115.26	114.57	118.73	120.25	132.09	149.72	177.86
	Total	152.49	159.93	177.81	194.60	223.90	258.25	299.99
Misamis Occidental	Municipal	9.05	12.16	16.81	22.25	28.90	36.57	45.63
	Industrial	0.44	0.44	0.45	0.46	0.51	0.57	0.68
	Total	9.49	12.60	17.26	22.71	29.40	37.14	46.31
Comiguin	Municipal	2.04	3.18	4.75	6.54	8.44	9.17	10.81
	Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	2.04	3.18	4.75	6.54	8.44	9.17	10.81
Adm. Region XI	Municipal	95.25	116.81	151.92	192.50	237.27	287.25	342.12
	Industrial	93.56	93.37	94.73	97.66	101.53	106.64	114.19
	Total	188.81	210.18	246.64	290.16	338.80	393.88	456.31
Davao del Norte	Municipal	14.56	22.54	29.62	37.59	48.49	60.58	74.52
	Industrial	70.39	70.25	71.21	73.46	76.43	80.33	86.09
	Total	84.75	92.79	100.83	111.05	124.92	140.91	160.60
Davao del Sur	Municipal	62.81	67.40	79.61	91.69	101.74	111.17	120.18
	Industrial	11.51	11.43	11.64	12.01	12.49	13.13	14.07
	Total	74.32	78.88	91.25	103.70	114.23	124.30	134.25
Davao Oriental	Municipal	4.56	6.13	8.61	11.53	14.52	17.66	21.10
	Industrial	0.11	0.11	0.11	0.12	0.12	0.13	0.13
	Total	4.67	6.24	8.72	11.65	14.64	17.79	21.23
South Cotabato	Municipal	10.21	16.19	27.04	41.38	58.46	79.32	102.43
	Industrial	11.55	11.53	11.76	12.07	12.48	13.05	13.99
	Total	21.76	27.72	38.80	53.45	70.94	92.37	116.42
Sarangani	Municipal	3.31	4.54	7.03	10.32	14.07	18.52	23.90
	Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	3.31	4.54	7.03	10.32	14.07	18.52	23.90
Adm. Region XII	Municipal	26.15	40.85	63.01	91.42	125.83	165.94	212.43
	Industrial	78.56	78.44	79.98	82.09	84.88	88.73	94.50
	Total	104.71	119.29	142.99	173.51	210.71	254.66	306.93
Lanao del Norte	Municipal	7.38	14.03	24.67	39.21	57.87	80.43	107.03
	Industrial	72.63	72.52	73.94	75.90	78.47	82.03	87.37
	Total	80.01	86.55	98.62	115.10	136.34	162.46	194.40
North Cotabato	Municipal	12.30	17.09	23.58	31.23	39.66	48.98	59.48
	Industrial	5.61	5.61	5.72	5.87	6.07	6.34	6.75
	Total	17.92	22.70	29.29	37.10	45.72	55.32	66.23
Sultan Kudarat	Municipal	6.47	9.73	14.75	20.98	28.31	36.53	45.92
	Industrial	0.32	0.31	0.32	0.33	0.34	0.36	0.38
	Total	6.79	10.04	15.07	21.31	28.65	36.89	46.30

**Table M-1 MUNICIPAL AND INDUSTRIAL WATER DEMAND BY REGION (High Economic Growth Scenario) (6/6)**

(Unit : MCM/year)

Administrative Region/Province		1996	2000	2005	2010	2015	2020	2025
ARMM	Municipal	31.32	49.64	75.14	106.35	142.18	182.01	225.11
	Industrial	1.89	1.89	1.93	1.98	2.04	2.14	2.28
	Total	33.21	51.53	77.07	108.32	144.22	184.14	227.39
Sulu	Municipal	9.29	14.56	21.01	28.32	36.25	44.65	53.51
	Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	9.29	14.56	21.01	28.32	36.25	44.65	53.51
Tawi-Tawi	Municipal	3.92	6.71	11.04	16.38	22.30	28.54	34.50
	Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	3.92	6.71	11.04	16.38	22.30	28.54	34.50
Lano del Sur	Municipal	6.80	11.99	20.06	30.50	43.91	56.70	71.36
	Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	6.80	11.99	20.06	30.50	43.91	56.70	71.36
Maguindanao	Municipal	11.31	16.39	23.03	31.14	40.71	52.12	65.75
	Industrial	1.89	1.89	1.93	1.98	2.04	2.14	2.28
	Total	13.20	18.28	24.95	33.12	42.76	54.26	68.03
CARGA	Municipal	27.40	37.82	53.43	72.55	95.63	122.34	154.29
	Industrial	142.70	142.36	144.54	148.92	155.52	164.36	177.58
	Total	170.10	180.18	197.96	221.47	251.15	286.70	331.87
Agusan del Norte	Municipal	7.85	10.47	14.36	18.72	23.87	29.39	35.63
	Industrial	4.05	4.02	4.17	4.22	4.64	5.26	6.24
	Total	11.89	14.49	18.53	22.94	28.51	34.65	41.88
Agusan del Sur	Municipal	6.03	8.73	13.29	19.37	27.26	37.05	49.34
	Industrial	0.09	0.09	0.10	0.10	0.11	0.12	0.15
	Total	6.12	8.82	13.38	19.47	27.36	37.17	49.49
Surigao del Norte	Municipal	5.61	7.84	10.79	14.24	18.06	22.13	26.69
	Industrial	5.46	5.43	5.62	5.70	6.26	7.09	8.42
	Total	11.07	13.27	16.41	19.94	24.32	29.23	35.12
Surigao del Sur	Municipal	7.91	10.78	14.99	20.22	26.45	33.77	42.62
	Industrial	133.10	132.82	134.65	138.90	144.52	151.89	162.77
	Total	141.01	143.60	149.64	159.12	170.97	185.66	205.39
PHILIPPINES	Municipal	2,187.10	2,896.80	3,648.00	4,542.10	5,407.20	6,290.90	7,430.00
	Industrial	2,233.53	2,289.37	2,526.13	2,833.84	3,312.96	3,991.51	4,997.63
	Total	4,420.63	5,186.17	6,174.13	7,375.94	8,720.16	10,282.41	12,427.63

**Table M-2 AGRICULTURAL WATER DEMAND BY ADMINISTRATIVE REGION (1/6)**  
(High Economic Growth Scenario)

(Unit : MCM/year)

Administrative Region/Province		1995	2000	2005	2010	2015	2020	2025
NCR	Irrigation	-	-	-	-	-	-	-
	Livestock/Poultry	-	-	-	-	-	-	-
	Fisheries	85.36	112.27	120.13	125.57	130.15	131.71	145.31
	Total	85.36	112.27	120.13	125.57	130.15	131.71	145.31
CAR	Irrigation	1,048.60	1,571.02	1,733.47	1,866.76	2,070.71	2,216.61	2,328.88
	Livestock/Poultry	3.15	4.03	4.20	5.46	6.83	8.79	9.99
	Fisheries	1.51	1.98	2.11	2.20	2.28	2.32	2.56
	Total	1,053.27	1,577.03	1,739.78	1,873.92	2,079.83	2,227.71	2,341.43
ABRA	Irrigation	198.25	225.53	251.58	272.23	278.61	281.15	284.22
	Livestock/Poultry	0.71	0.91	0.94	1.14	1.39	1.74	2.26
	Fisheries	0.23	0.30	0.32	0.33	0.34	0.35	0.38
	Total	199.19	226.73	262.83	273.70	280.33	283.23	286.86
BENGUET	Irrigation	89.60	92.60	92.87	97.36	97.37	97.39	59.48
	Livestock/Poultry	0.56	0.74	0.78	1.22	1.56	2.68	1.04
	Fisheries	0.02	0.03	0.03	0.03	0.03	0.03	0.04
	Total	90.18	93.36	93.67	98.60	98.96	99.50	60.56
IFUGAO	Irrigation	61.25	83.42	115.74	143.68	180.31	211.96	243.89
	Livestock/Poultry	0.61	0.81	0.85	1.05	1.31	1.67	2.22
	Fisheries	0.50	0.66	0.70	0.73	0.76	0.77	0.85
	Total	62.35	84.89	117.28	145.46	182.57	214.39	246.96
KALINGA APAYAO	Irrigation	506.05	918.22	1,006.40	1,093.69	1,254.90	1,366.72	1,481.37
	Livestock/Poultry	0.65	0.79	0.82	1.02	1.27	1.62	2.17
	Fisheries	0.63	0.82	0.88	0.92	0.95	0.96	1.06
	Total	507.33	919.83	1,007.09	1,095.63	1,257.11	1,369.30	1,484.60
MT. PROVINCE	Irrigation	193.45	251.25	257.90	259.29	259.33	259.38	259.93
	Livestock/Poultry	0.63	0.79	0.82	1.04	1.32	1.70	2.30
	Fisheries	0.14	0.18	0.19	0.20	0.21	0.21	0.23
	Total	194.22	252.22	258.90	260.53	260.85	261.29	262.46
I	Irrigation	2,206.79	3,299.37	4,647.18	4,920.18	5,333.03	5,544.55	5,766.97
	Livestock/Poultry	6.21	8.60	9.16	11.16	13.67	17.14	22.42
	Fisheries	287.56	381.82	408.60	427.05	452.62	447.95	494.22
	Total	2,500.56	3,689.80	5,064.95	5,358.39	5,799.34	6,009.66	6,283.61
ILOCOS NORTE	Irrigation	784.16	922.20	1,131.69	1,217.32	1,287.41	1,318.12	1,351.35
	Livestock/Poultry	1.36	1.86	1.97	2.42	2.97	3.74	4.90
	Fisheries	6.18	8.11	8.67	9.07	9.40	9.52	10.50
	Total	791.70	932.17	1,142.34	1,228.81	1,299.78	1,331.38	1,366.76
ILOCOS SUR	Irrigation	218.04	464.40	681.57	683.28	707.13	707.28	708.75
	Livestock/Poultry	1.08	1.52	1.62	1.97	2.40	3.00	3.93
	Fisheries	16.93	22.19	23.75	24.82	25.73	26.03	28.73
	Total	236.05	488.11	706.94	710.06	735.27	736.31	741.41
LA UNION	Irrigation	174.49	223.43	234.83	234.93	248.44	248.49	249.01
	Livestock/Poultry	1.11	1.47	1.55	1.93	2.40	3.07	4.10
	Fisheries	24.15	33.00	35.32	36.91	38.25	38.72	42.72
	Total	199.75	257.90	271.69	273.77	289.09	290.28	295.82
PANGASINAN	Irrigation	1,030.10	1,689.33	2,599.09	2,784.65	3,090.07	3,270.68	3,457.85
	Livestock/Poultry	2.67	3.76	4.03	4.85	5.89	7.32	9.49
	Fisheries	240.31	318.52	340.86	356.25	379.24	373.68	412.28
	Total	1,273.07	2,011.61	2,943.98	3,145.75	3,475.20	3,651.68	3,879.62
II	Irrigation	3,364.93	4,710.10	5,454.76	6,449.74	7,815.46	8,995.05	10,184.22
	Livestock/Poultry	6.69	8.79	9.31	11.46	14.22	18.07	24.00
	Fisheries	53.75	73.87	79.06	82.62	85.65	86.65	95.69
	Total	3,425.37	4,792.77	5,543.13	6,543.82	7,925.32	9,099.77	10,303.82
BATANES	Irrigation	0.01	5.17	5.20	5.21	5.24	5.24	5.25
	Livestock/Poultry	-	-	-	-	-	-	-
	Fisheries	-	-	-	-	-	-	-
	Total	0.01	5.17	5.20	5.21	5.24	5.24	5.25
CAGAYAN	Irrigation	1,013.10	1,614.95	1,839.26	2,247.36	2,855.26	3,443.54	4,009.56
	Livestock/Poultry	2.62	3.30	3.46	4.24	5.23	6.63	8.77
	Fisheries	44.45	61.72	66.04	69.03	71.55	72.40	79.88
	Total	1,060.17	1,679.97	1,908.76	2,320.63	2,926.04	3,522.56	4,098.24
ISABELA	Irrigation	1,784.10	2,238.85	2,404.38	2,780.73	3,419.00	3,946.75	4,483.11
	Livestock/Poultry	2.76	3.75	4.01	4.91	6.07	7.68	10.16
	Fisheries	5.08	6.64	7.11	7.43	7.70	7.79	8.60
	Total	1,791.94	2,249.25	2,415.49	2,792.57	3,432.77	3,962.23	4,501.87
NUEVA VIZCAYA	Irrigation	517.20	620.73	830.85	985.04	1,040.72	1,083.74	1,132.91
	Livestock/Poultry	0.83	1.09	1.15	1.44	1.82	2.34	3.15
	Fisheries	0.67	0.88	0.94	0.98	1.02	1.03	1.13
	Total	518.70	622.70	832.94	988.46	1,043.55	1,087.11	1,137.20

**Table M-2 AGRICULTURAL WATER DEMAND BY ADMINISTRATIVE REGION (2/6)**  
(High Economic Growth Scenario)

(Unit : MCM/year)

Administrative Region/Province	1996	2000	2005	2010	2015	2020	2025	
IQUIPO	Irrigation	50.52	230.38	375.07	430.90	475.24	513.78	553.39
	Livestock/Poultry	0.48	0.66	0.70	0.88	1.11	1.42	1.91
	Fisheries	3.55	4.64	4.97	5.19	5.38	5.44	6.00
	Total	54.55	235.68	380.73	436.96	481.72	520.64	561.30
II	Irrigation	2,881.17	5,062.48	6,386.00	6,895.00	7,700.30	8,224.09	8,764.53
	Livestock/Poultry	12.53	18.25	19.80	25.71	33.36	44.15	60.70
	Fisheries	1,844.05	2,638.64	2,823.70	2,951.18	3,058.96	3,095.56	3,415.28
	Total	4,737.74	7,719.37	9,229.50	9,871.88	10,792.62	11,363.80	12,240.51
BATAAN	Irrigation	135.48	194.25	223.07	223.17	233.70	223.74	224.21
	Livestock/Poultry	0.31	0.42	0.45	0.56	0.70	0.89	1.19
	Fisheries	268.19	382.56	409.39	427.86	443.50	418.81	495.16
	Total	404.98	577.23	632.91	654.60	667.89	673.44	720.56
BULACAN	Irrigation	529.67	644.37	684.68	725.37	793.11	814.93	898.46
	Livestock/Poultry	5.85	8.02	8.51	11.41	15.10	20.31	28.40
	Fisheries	474.00	652.85	698.63	730.18	756.84	765.90	845.00
	Total	1,009.52	1,305.23	1,391.83	1,466.96	1,565.66	1,631.14	1,771.86
NUEVA ECUA	Irrigation	1,716.47	2,524.84	3,555.28	3,768.57	4,040.51	4,146.46	4,260.45
	Livestock/Poultry	2.80	4.22	4.63	5.89	7.53	9.66	13.40
	Fisheries	23.38	30.53	32.67	34.15	35.40	35.82	39.52
	Total	1,742.65	2,559.59	3,593.58	3,808.61	4,083.44	4,192.15	4,313.36
PAMPANGA	Irrigation	218.09	776.44	809.72	813.24	855.55	860.47	867.02
	Livestock/Poultry	1.28	2.42	2.80	3.66	4.82	6.47	8.94
	Fisheries	1,057.11	1,544.75	1,653.09	1,727.71	1,790.81	1,812.25	1,999.43
	Total	1,276.48	2,323.61	2,465.62	2,544.62	2,651.18	2,679.19	2,875.39
TARLAC	Irrigation	209.87	672.28	767.75	972.27	1,318.15	1,616.19	1,917.95
	Livestock/Poultry	1.62	2.25	2.42	2.98	3.71	4.73	6.27
	Fisheries	8.59	11.22	12.00	12.54	13.00	13.15	14.52
	Total	220.09	684.75	782.18	987.79	1,334.86	1,634.07	1,938.74
ZAMPALES	Irrigation	70.58	250.30	344.49	392.37	469.28	532.29	596.45
	Livestock/Poultry	0.67	0.92	0.99	1.21	1.50	1.90	2.50
	Fisheries	12.78	16.74	17.91	18.72	19.40	19.63	21.66
	Total	84.03	267.96	363.38	412.30	490.18	553.81	620.60
IV	Irrigation	1,455.56	2,201.02	2,505.16	2,871.97	3,472.75	3,966.61	4,469.02
	Livestock/Poultry	14.58	21.37	23.22	29.86	38.47	50.60	69.16
	Fisheries	447.96	601.64	643.80	672.92	697.47	705.74	778.71
	Total	1,918.10	2,824.03	3,172.18	3,574.75	4,208.70	4,722.95	5,316.89
AURORA	Irrigation	120.23	191.40	219.42	232.01	257.94	271.33	285.26
	Livestock/Poultry	0.26	0.34	0.35	0.43	0.53	0.67	0.88
	Fisheries	4.68	6.75	7.21	7.54	7.82	7.91	8.72
	Total	125.17	198.49	226.98	239.98	266.29	279.91	294.86
BATANGAS	Irrigation	104.09	144.59	243.22	253.72	264.57	273.03	282.02
	Livestock/Poultry	3.39	5.91	6.71	8.72	11.39	15.20	20.91
	Fisheries	11.53	16.84	18.02	18.83	19.51	19.76	21.79
	Total	119.01	167.35	267.95	281.27	295.48	307.98	324.72
CAVITE	Irrigation	193.48	322.08	349.34	391.18	467.42	521.77	577.22
	Livestock/Poultry	1.29	1.68	1.74	2.29	2.99	3.96	5.48
	Fisheries	4.30	6.15	6.58	6.88	7.13	7.22	7.96
	Total	199.06	329.91	357.66	400.35	477.55	532.96	590.66
LAGUNA	Irrigation	176.79	269.26	282.42	301.87	337.65	363.82	390.74
	Livestock/Poultry	1.73	2.67	2.94	3.90	5.15	6.92	9.63
	Fisheries	85.63	112.63	120.51	125.97	130.56	132.03	145.77
	Total	264.15	384.56	405.87	431.73	473.36	502.76	546.14
MARINDUQUE	Irrigation	2.92	12.01	19.13	20.83	21.53	21.67	21.86
	Livestock/Poultry	0.63	0.79	0.82	1.04	1.32	1.71	2.31
	Fisheries	8.33	12.00	12.85	13.44	13.92	14.09	15.55
	Total	11.88	24.81	32.80	35.30	36.76	37.47	39.72
MINDORO OCC.	Irrigation	155.24	291.02	317.91	422.11	595.63	747.66	901.43
	Livestock/Poultry	0.83	1.06	1.12	1.33	1.60	1.98	2.55
	Fisheries	65.09	86.18	92.22	96.38	99.91	101.10	111.53
	Total	221.15	378.26	411.24	519.81	697.13	850.74	1,015.51
MINDORO ORIENTAL	Irrigation	238.82	322.40	346.85	428.51	566.94	684.50	803.62
	Livestock/Poultry	0.72	0.96	1.02	1.22	1.49	1.85	2.40
	Fisheries	67.11	95.62	102.33	106.95	110.86	112.18	123.77
	Total	306.65	418.98	450.20	536.68	679.29	798.53	929.80

**Table M-2 AGRICULTURAL WATER DEMAND BY ADMINISTRATIVE REGION (3/6)**  
(High Economic Growth Scenario)

(Unit : MCM/year)

Administrative Region/Province		1996	2000	2005	2010	2015	2020	2025
PALAWAN	Irrigation	77.31	182.69	208.58	231.82	271.12	301.48	332.47
	Livestock/Poultry	1.20	1.56	1.63	2.04	2.56	3.28	4.41
	Fisheries	1.97	2.57	2.75	2.89	2.98	3.02	3.33
	Total	80.47	186.82	212.96	236.75	276.67	307.79	340.21
QUEZON	Irrigation	302.46	332.81	349.47	391.80	452.48	510.83	570.27
	Livestock/Poultry	2.27	3.08	3.29	4.16	5.28	6.86	9.28
	Fisheries	194.76	256.04	274.96	287.38	297.87	301.43	332.57
	Total	499.49	592.83	627.71	683.35	755.63	819.12	912.12
RIZAL	Irrigation	53.84	73.05	93.07	113.83	143.85	169.50	195.51
	Livestock/Poultry	1.64	2.45	2.66	3.57	4.74	6.40	8.95
	Fisheries	-	-	-	-	-	-	-
	Total	55.48	75.51	95.74	117.45	148.59	175.89	204.46
ROMBLON	Irrigation	30.40	59.70	76.05	84.25	93.62	101.01	108.62
	Livestock/Poultry	0.63	0.88	0.95	1.16	1.43	1.80	2.36
	Fisheries	4.56	5.95	6.37	6.66	6.90	6.99	7.71
	Total	35.59	66.53	83.36	92.07	101.95	109.79	118.69
V	Irrigation	1,125.29	1,636.39	1,999.55	2,354.90	2,802.82	3,144.20	3,490.27
	Livestock/Poultry	7.01	8.98	9.41	11.61	14.39	18.26	24.27
	Fisheries	189.19	268.64	287.48	300.43	311.43	315.17	347.71
	Total	1,321.49	1,914.01	2,296.45	2,666.94	3,128.63	3,477.63	3,862.25
AIBAY	Irrigation	578.51	626.69	712.97	786.78	920.71	1,011.30	1,103.98
	Livestock/Poultry	1.36	1.70	1.77	2.19	2.72	3.47	4.62
	Fisheries	10.22	13.97	14.95	15.61	16.19	16.33	18.08
	Total	590.09	642.37	729.69	804.59	939.63	1,031.15	1,126.68
CAMARINES N.	Irrigation	36.09	77.44	103.85	126.27	153.31	178.35	203.78
	Livestock/Poultry	0.78	0.96	1.00	1.24	1.55	1.97	2.63
	Fisheries	30.15	44.17	47.26	49.40	51.20	51.82	57.17
	Total	67.02	122.57	152.11	176.90	206.06	232.13	263.57
CAMARINES SUR	Irrigation	425.61	661.79	827.89	1,041.82	1,271.07	1,453.00	1,636.09
	Livestock/Poultry	2.10	2.75	2.90	3.62	4.53	5.81	7.79
	Fisheries	49.35	69.04	73.88	77.22	80.04	81.00	89.35
	Total	477.07	733.58	904.67	1,122.66	1,355.64	1,539.80	1,733.23
CATANDUANES	Irrigation	11.76	58.07	60.89	60.92	64.62	66.37	68.25
	Livestock/Poultry	0.43	0.52	0.54	0.67	0.84	1.07	1.44
	Fisheries	7.00	2.89	3.10	3.23	3.35	3.39	3.75
	Total	14.18	61.48	64.53	64.82	68.81	70.83	73.44
MASBATE	Irrigation	15.17	83.18	124.58	159.99	204.23	244.42	285.16
	Livestock/Poultry	1.33	1.73	1.83	2.19	2.63	3.25	4.20
	Fisheries	63.27	89.29	95.55	99.85	103.51	104.75	115.57
	Total	79.77	174.21	221.96	262.04	310.37	352.42	404.94
SORSOGON	Irrigation	58.15	129.21	169.37	179.12	188.88	190.77	193.02
	Livestock/Poultry	1.03	1.32	1.37	1.70	2.12	2.69	3.59
	Fisheries	34.19	49.28	52.74	55.12	57.14	57.83	63.79
	Total	93.37	179.81	223.48	235.94	248.13	251.29	260.40
VI	Irrigation	1,112.71	1,678.65	2,344.27	2,912.45	3,268.16	3,532.71	3,801.53
	Livestock/Poultry	9.02	12.54	13.47	16.81	21.12	27.16	36.39
	Fisheries	1,456.26	2,059.12	2,203.51	2,303.00	2,387.09	2,415.67	2,665.18
	Total	2,577.99	3,750.32	4,561.26	5,232.26	5,676.38	5,975.54	6,506.10
AKLAN	Irrigation	140.52	203.10	218.03	220.52	227.24	227.28	227.76
	Livestock/Poultry	0.76	1.04	1.11	1.41	1.79	2.32	3.13
	Fisheries	198.69	271.27	290.29	303.39	314.47	318.24	351.11
	Total	339.97	475.41	509.43	525.32	543.50	547.84	582.00
ANTIQUE	Irrigation	207.81	282.04	349.14	369.24	386.75	306.60	407.23
	Livestock/Poultry	0.97	1.34	1.43	1.72	2.10	2.61	3.39
	Fisheries	9.47	13.49	14.44	15.08	15.63	15.83	17.46
	Total	218.24	296.87	365.00	386.04	404.48	415.04	428.08
CABIZ	Irrigation	48.05	149.69	218.82	242.07	260.01	272.74	286.00
	Livestock/Poultry	0.93	1.22	1.29	1.60	2.00	2.55	3.42
	Fisheries	202.52	275.03	294.32	307.61	318.84	322.66	355.99
	Total	251.49	425.93	514.43	551.28	580.85	597.95	645.41
ILOILO GUIMARAS	Irrigation	482.40	697.97	848.34	1,073.28	1,255.38	1,387.30	1,522.14
	Livestock/Poultry	3.32	4.73	5.11	6.36	7.98	10.27	13.73
	Fisheries	332.55	466.19	498.86	521.40	540.43	546.90	603.39
	Total	823.27	1,168.89	1,352.32	1,601.04	1,803.79	1,944.47	2,139.26
NEGROS OCC.	Irrigation	233.93	345.85	709.94	1,007.35	1,138.79	1,248.79	1,361.40
	Livestock/Poultry	3.05	4.23	4.54	5.73	7.26	9.41	12.72
	Fisheries	708.04	1,033.15	1,105.60	1,155.51	1,197.71	1,212.05	1,337.23
	Total	945.02	1,383.22	1,820.08	2,168.59	2,343.76	2,470.24	2,711.35



**Table M-2 AGRICULTURAL WATER DEMAND BY ADMINISTRATIVE REGION (4/6)**  
(High Economic Growth Scenario)

(Unit : MCM/year)

Administrative Region/Province		1996	2000	2005	2010	2015	2020	2025
VII	Irrigation	276.79	534.94	756.92	801.65	855.29	889.51	924.47
	Livestock/Poultry	9.30	12.95	13.83	17.36	21.85	27.08	37.66
	Fisheries	344.08	494.92	529.63	553.55	573.76	580.64	640.60
	Total	630.16	1,042.82	1,300.38	1,372.56	1,451.90	1,497.23	1,602.73
BOHOL	Irrigation	125.59	278.75	415.47	440.66	476.43	501.45	527.46
	Livestock/Poultry	2.55	3.47	3.69	4.60	5.75	7.34	9.81
	Fisheries	82.12	113.38	121.32	126.80	131.43	133.01	146.74
	Total	210.26	395.59	540.48	572.06	613.61	641.80	684.01
CEBU	Irrigation	34.55	90.10	123.63	123.69	128.04	128.07	128.33
	Livestock/Poultry	3.62	5.24	5.66	7.15	9.06	11.72	15.79
	Fisheries	194.82	288.36	308.59	322.52	334.30	338.30	373.24
	Total	232.99	383.71	437.88	453.36	471.39	478.09	517.36
NEGROS ORIENTAL	Irrigation	116.65	166.09	217.82	237.30	251.82	259.99	268.67
	Livestock/Poultry	3.13	4.24	4.48	5.61	7.04	8.01	12.06
	Fisheries	67.14	93.19	99.72	104.23	108.04	109.34	120.62
	Total	186.92	263.51	322.02	347.13	366.90	377.34	401.36
VIII	Irrigation	489.64	874.86	1,096.93	1,150.77	1,242.30	1,291.43	1,343.08
	Livestock/Poultry	7.11	9.10	9.53	12.30	15.81	20.73	28.41
	Fisheries	84.24	117.52	125.77	131.44	135.23	137.88	152.12
	Total	580.99	1,001.49	1,232.23	1,294.51	1,394.34	1,450.04	1,523.61
NO. LEYTE, BILIRAN	Irrigation	394.59	585.14	675.18	711.81	788.25	830.97	875.35
	Livestock/Poultry	4.21	5.46	5.73	7.44	9.62	12.66	17.42
	Fisheries	32.00	43.82	45.89	49.01	50.80	51.41	56.72
	Total	430.79	634.42	727.81	768.26	848.67	895.04	949.49
SOUTHERN LEYTE	Irrigation	69.11	76.92	79.93	81.00	84.32	84.34	84.52
	Livestock/Poultry	0.73	0.95	1.00	1.29	1.66	2.18	2.97
	Fisheries	1.46	1.97	2.12	2.21	2.29	2.33	2.57
	Total	71.29	79.84	83.05	84.50	88.27	88.84	90.05
EASTERN SAMAR	Irrigation	14.32	87.36	98.93	100.24	102.21	102.23	102.44
	Livestock/Poultry	0.62	0.77	0.81	1.03	1.31	1.70	2.31
	Fisheries	0.73	0.95	1.02	1.07	1.10	1.12	1.23
	Total	15.66	89.08	100.75	102.33	104.61	105.05	105.98
NORTHERN SAMAR	Irrigation	5.95	65.96	151.08	154.40	156.44	156.48	156.80
	Livestock/Poultry	0.79	0.98	1.02	1.29	1.63	2.10	2.84
	Fisheries	8.63	12.21	13.06	13.65	14.15	14.32	15.80
	Total	15.37	79.15	165.16	169.33	172.22	172.89	175.44
WESTERN SAMAR	Irrigation	5.68	59.48	91.81	103.33	111.07	117.41	123.97
	Livestock/Poultry	0.77	0.95	0.98	1.26	1.61	2.10	2.87
	Fisheries	41.43	58.57	62.67	65.51	67.89	68.71	75.81
	Total	47.87	119.00	155.46	170.10	180.57	188.22	202.65
IX	Irrigation	531.68	649.54	780.41	910.78	1,098.64	1,247.93	1,299.91
	Livestock/Poultry	5.89	7.76	8.19	10.26	12.90	15.58	22.30
	Fisheries	1,333.40	1,935.55	2,071.47	2,164.79	2,243.84	2,270.70	2,505.22
	Total	1,870.97	2,592.84	2,860.07	3,085.83	3,355.38	3,535.21	3,827.42
BASILAN	Irrigation	1.28	1.33	1.35	1.67	2.18	2.66	3.16
	Livestock/Poultry	0.17	0.24	0.26	0.33	0.42	0.55	0.76
	Fisheries	1.22	1.70	1.81	1.90	1.97	1.99	2.19
	Total	2.67	3.26	3.42	3.89	4.57	5.20	6.11
ZAMBOANGA NORTE	Irrigation	82.47	125.38	184.57	266.42	371.47	470.20	570.05
	Livestock/Poultry	1.85	2.44	2.58	3.23	4.06	5.22	7.01
	Fisheries	12.25	17.58	18.80	19.65	20.37	20.62	22.74
	Total	96.57	145.40	205.95	289.30	395.90	496.04	599.80
ZAMBOANGA SUR	Irrigation	447.93	522.83	594.49	642.70	724.99	775.06	726.70
	Livestock/Poultry	3.87	5.08	5.34	6.70	8.42	10.82	14.53
	Fisheries	1,319.94	1,916.27	2,050.85	2,143.24	2,221.50	2,248.10	2,480.29
	Total	1,771.73	2,444.18	2,650.69	2,792.64	2,954.91	3,033.98	3,221.52
X	Irrigation	421.14	640.20	847.04	997.60	1,214.44	1,414.11	1,616.91
	Livestock/Poultry	5.25	7.43	7.95	9.78	12.00	15.30	20.17
	Fisheries	86.96	129.52	138.86	144.86	150.14	151.92	167.62
	Total	513.35	777.15	993.85	1,152.24	1,376.58	1,581.34	1,804.70
BUKIDNON	Irrigation	309.39	474.21	643.14	764.48	948.01	1,117.18	1,288.84
	Livestock/Poultry	2.19	3.01	3.19	3.87	4.73	5.91	7.70
	Fisheries	1.23	1.60	1.70	1.79	1.85	1.87	2.06
	Total	312.81	478.82	648.03	770.13	954.58	1,124.95	1,298.60
MISAMIS OCC.	Irrigation	84.38	90.00	90.00	90.05	90.06	90.08	90.26
	Livestock/Poultry	1.35	1.93	2.07	2.60	3.27	4.20	5.62
	Fisheries	58.79	88.22	94.68	98.67	102.27	103.49	114.18
	Total	144.51	180.16	186.76	191.32	195.60	197.77	210.07

**Table M-2 AGRICULTURAL WATER DEMAND BY ADMINISTRATIVE REGION (5/6)**  
(High Economic Growth Scenario)

(Unit : MCM/year)

Administrative Region/Province		1996	2000	2005	2010	2015	2020	2025
MISAMIS ORIENTAL	Irrigation	27.37	75.99	113.90	143.08	176.38	206.85	237.81
	Livestock/Poultry	1.71	2.48	2.68	3.30	4.00	5.19	6.85
	Fisheries	26.95	39.70	42.47	44.40	46.02	46.57	51.38
	Total	56.03	118.17	159.06	190.78	226.40	258.62	296.03
XI	Irrigation	1,951.17	2,297.33	2,523.61	3,113.97	4,024.17	4,849.88	5,685.58
	Livestock/Poultry	10.40	14.18	15.07	19.24	24.53	31.95	43.41
	Fisheries	295.05	420.81	450.32	470.66	487.85	493.67	541.66
	Total	2,256.62	2,732.32	2,989.00	3,603.87	4,536.55	5,375.50	6,274.64
DAVAO DEL NORTE	Irrigation	487.40	513.45	554.50	702.63	918.35	1,128.65	1,341.58
	Livestock/Poultry	2.10	2.88	3.07	3.95	5.07	6.64	9.07
	Fisheries	54.80	71.57	76.59	80.05	82.98	83.96	92.63
	Total	544.30	587.90	634.16	786.63	1,006.39	1,219.26	1,443.29
DAVAO SUR	Irrigation	290.26	346.44	306.44	430.58	483.65	522.10	563.62
	Livestock/Poultry	3.77	5.36	5.78	7.40	9.48	12.40	16.88
	Fisheries	73.98	105.40	112.79	117.89	122.18	123.65	136.42
	Total	368.01	457.20	424.91	555.86	615.31	658.15	716.92
DAVAO ORIENTAL	Irrigation	58.95	111.34	152.14	187.77	230.72	271.42	312.73
	Livestock/Poultry	1.17	1.54	1.63	2.08	2.66	3.48	4.76
	Fisheries	18.17	23.73	25.39	26.53	27.51	27.83	30.71
	Total	78.29	136.61	179.16	216.39	260.89	302.73	348.20
SOUTH COTABATO	Irrigation	1,114.48	1,326.10	1,420.54	1,792.99	2,391.46	2,927.69	3,470.64
	Livestock/Poultry	3.37	4.40	4.59	5.81	7.32	9.43	12.70
	Fisheries	148.10	220.11	235.54	245.19	255.18	258.24	284.89
	Total	1,265.95	1,550.61	1,660.67	2,044.98	2,653.97	3,195.35	3,768.23
XII	Irrigation	1,112.72	1,722.70	2,508.53	2,945.70	3,531.73	4,042.04	4,561.11
	Livestock/Poultry	4.89	6.20	6.50	7.96	9.81	22.36	15.37
	Fisheries	234.45	341.24	381.14	381.67	395.60	400.34	441.69
	Total	1,352.06	2,120.14	2,896.17	3,335.33	3,937.14	4,464.74	5,019.17
LANAO DEL NORTE	Irrigation	269.57	393.12	416.04	417.02	437.01	437.10	438.01
	Livestock/Poultry	1.00	1.34	1.43	1.74	2.13	12.64	3.49
	Fisheries	227.13	331.58	370.80	370.86	384.40	389.01	429.19
	Total	497.70	726.04	788.27	789.61	823.54	838.75	870.69
NORTH COTABATO	Irrigation	621.85	1,091.75	1,761.79	2,072.54	2,512.85	2,916.74	3,327.03
	Livestock/Poultry	2.00	2.57	2.70	3.36	4.19	5.36	7.17
	Fisheries	0.49	0.63	0.68	0.71	0.73	0.74	0.82
	Total	624.35	1,094.95	1,765.17	2,076.61	2,517.76	2,922.83	3,335.02
SULTAN KUDARAT	Irrigation	221.30	287.82	330.70	456.14	581.87	688.20	796.06
	Livestock/Poultry	1.89	2.29	2.37	2.86	3.49	4.36	5.71
	Fisheries	6.83	9.03	9.66	10.10	10.48	10.60	11.69
	Total	230.02	299.15	342.74	469.11	595.83	703.15	813.46
ARMM	Irrigation	141.44	581.39	1,267.66	1,655.52	2,168.93	2,663.97	3,165.55
	Livestock/Poultry	1.56	2.15	2.33	2.62	2.99	3.50	4.25
	Fisheries	32.87	45.37	48.55	50.73	52.60	53.23	58.72
	Total	175.87	628.91	1,318.54	1,708.87	2,224.52	2,720.70	3,228.52
LANAO DEL SUR	Irrigation	24.90	169.74	416.53	591.35	808.55	1,018.95	1,231.75
	Livestock/Poultry	0.60	0.83	0.89	0.96	1.05	1.16	1.31
	Fisheries	0.29	0.40	0.43	0.45	0.47	0.47	0.51
	Total	25.79	170.97	417.84	592.75	810.07	1,020.58	1,233.57
MAGUINDANAO	Irrigation	116.54	410.67	850.08	1,063.11	1,359.22	1,643.87	1,932.65
	Livestock/Poultry	0.82	1.05	1.12	1.29	1.50	1.80	2.25
	Fisheries	32.58	44.97	48.12	50.28	52.13	52.76	58.21
	Total	149.93	456.68	899.31	1,114.68	1,412.85	1,698.42	1,993.11
SULU	Irrigation	-	0.91	0.99	0.99	1.07	1.07	1.07
	Livestock/Poultry	0.13	0.24	0.28	0.32	0.38	0.46	0.58
	Fisheries	-	-	-	-	-	-	-
	Total	0.13	1.15	1.27	1.31	1.45	1.53	1.65
TAWI-TAWI	Irrigation	-	0.07	0.07	0.07	0.08	0.08	0.08
	Livestock/Poultry	0.02	0.04	0.05	0.06	0.07	0.09	0.11
	Fisheries	-	-	-	-	-	-	-
	Total	0.02	0.11	0.12	0.13	0.15	0.17	0.19

**Table M-2 AGRICULTURAL WATER DEMAND BY ADMINISTRATIVE REGION (6/6)**  
(High Economic Growth Scenario)

(Unit : MCM/year)

Administrative Region/Province		1996	2000	2005	2010	2015	2020	2025
DARAGA	Irrigation	346.21	621.41	1,057.45	1,315.03	1,670.32	2,000.50	2,335.20
	Livestock/Poultry	3.32	4.22	4.41	5.70	7.30	9.58	13.11
	Fisheries	183.79	265.83	284.47	297.33	308.18	311.86	344.10
	Total	533.32	891.45	1,346.33	1,618.06	1,985.80	2,321.94	2,692.41
AGUSAN DEL N.	Irrigation	76.65	220.46	445.07	547.96	693.78	828.47	965.02
	Livestock/Poultry	1.14	1.49	1.56	2.01	2.58	3.40	4.66
	Fisheries	65.97	93.88	100.47	105.01	108.84	110.14	121.53
	Total	143.76	315.83	547.10	654.99	805.21	942.01	1,091.22
AGUSAN DEL S.	Irrigation	178.57	257.37	377.85	489.54	646.18	795.03	945.71
	Livestock/Poultry	0.69	0.83	0.92	1.13	1.50	1.95	2.65
	Fisheries	0.11	0.14	0.15	0.16	0.17	0.17	0.19
	Total	179.37	258.39	378.92	490.83	647.85	797.14	948.55
SURIGAO DEL NORTE	Irrigation	54.01	81.06	151.58	159.30	163.66	163.69	164.03
	Livestock/Poultry	0.64	0.78	0.81	1.05	1.34	1.76	2.40
	Fisheries	53.00	79.17	84.71	83.54	91.76	92.86	102.46
	Total	107.64	161.01	237.10	243.89	256.76	258.31	268.89
SURIGAO DEL SUR	Irrigation	36.98	62.52	82.94	118.23	166.70	213.31	260.44
	Livestock/Poultry	0.86	1.08	1.13	1.46	1.89	2.47	3.40
	Fisheries	64.71	92.64	99.14	103.67	107.40	108.69	119.91
	Total	102.55	156.23	183.21	223.30	275.98	324.48	383.75
PHILIPPINES	Irrigation	18,465.84	28,131.41	35,908.97	41,161.53	48,280.07	54,023.17	59,741.22
	Livestock/Poultry	166.90	146.56	156.38	197.28	249.26	331.26	432.59
	Fisheries	6,960.43	9,883.75	10,598.60	11,060.00	11,473.85	11,601.02	12,799.31
	Total	25,533.23	38,166.71	46,663.94	52,418.81	60,003.17	65,955.45	72,973.11

**Table M-3 SUMMARY OF WATER DEMAND BY ADMINISTRATIVE REGION**  
(High Economic Growth Scenario)

Administrative Region		Water Use Sector	Year							Share in 2025 (%)
No.	Name		1996	2000	2005	2010	2015	2020	2025	
	NCR	M&I	899	1,188	1,359	1,556	1,732	1,787	1,981	15.9
		Agriculture	85	112	120	126	130	132	145	0.2
		Total	985	1,300	1,480	1,681	1,862	1,919	2,127	2.5
	CAR	M&I	99	112	127	145	167	195	231	1.9
		Agriculture	1,053	1,577	1,740	1,874	2,080	2,228	2,341	3.2
		Total	1,153	1,689	1,867	2,019	2,247	2,423	2,572	3.0
I	Ilocos	M&I	84	104	133	169	213	265	329	2.6
		Agriculture	2,501	3,690	5,065	5,358	5,799	6,010	6,284	8.6
		Total	2,585	3,793	5,198	5,528	6,012	6,275	6,613	7.7
II	Cagayan Valley	M&I	29	39	53	68	85	103	122	1.0
		Agriculture	3,425	4,793	5,543	6,544	7,925	9,100	10,304	14.1
		Total	3,454	4,832	5,596	6,612	8,010	9,202	10,426	12.2
III	Central Luzon	M&I	372	458	588	742	941	1,186	1,494	12.0
		Agriculture	4,738	7,719	9,229	9,872	10,793	11,364	12,241	16.8
		Total	5,110	8,177	9,818	10,614	11,734	12,550	13,734	16.1
IV	Southern Tagalog	M&I	989	1,065	1,235	1,566	1,862	2,339	3,032	24.4
		Agriculture	1,918	2,824	3,172	3,575	4,209	4,723	5,317	7.3
		Total	2,907	3,889	4,407	5,141	6,071	7,062	8,349	9.8
V	Bicol	M&I	93	120	147	179	217	257	302	2.4
		Agriculture	1,321	1,914	2,296	2,667	3,129	3,478	3,862	5.3
		Total	1,415	2,034	2,443	2,846	3,345	3,735	4,164	4.9
VI	Western Visayas	M&I	668	708	780	850	928	1,013	1,110	8.9
		Agriculture	2,578	3,750	4,561	5,232	5,676	5,976	6,506	8.9
		Total	3,246	4,459	5,341	6,082	6,604	6,989	7,616	8.9
VII	Central Visayas	M&I	287	347	489	580	728	900	1,110	8.9
		Agriculture	630	1,043	1,300	1,373	1,452	1,497	1,603	2.2
		Total	917	1,390	1,789	1,953	2,180	2,397	2,713	3.2
VIII	Eastern Visayas	M&I	78	112	148	193	251	325	432	3.5
		Agriculture	581	1,001	1,232	1,295	1,394	1,450	1,524	2.1
		Total	659	1,114	1,380	1,488	1,646	1,775	1,955	2.3
IX	Western Mindanao	M&I	63	92	135	180	234	301	373	3.0
		Agriculture	1,871	2,593	2,860	3,086	3,355	3,535	3,827	5.2
		Total	1,934	2,685	2,995	3,266	3,589	3,836	4,201	4.9
X	Northern Mindanao	M&I	262	279	316	354	417	493	590	4.7
		Agriculture	513	777	994	1,152	1,377	1,581	1,805	2.5
		Total	775	1,056	1,310	1,507	1,794	2,074	2,394	2.8
XI	Southern Mindanao	M&I	189	210	247	290	339	394	456	3.7
		Agriculture	2,257	2,732	2,989	3,604	4,537	5,376	6,275	8.6
		Total	2,445	2,942	3,236	3,894	4,875	5,769	6,731	7.9
XII	Central Mindanao	M&I	105	119	143	174	211	255	307	2.5
		Agriculture	1,352	2,120	2,896	3,335	3,937	4,465	5,019	6.9
		Total	1,457	2,239	3,039	3,509	4,148	4,719	5,326	6.2
ARMM		M&I	33	52	77	108	144	184	227	1.8
		Agriculture	176	629	1,319	1,709	2,225	2,721	3,229	4.4
		Total	209	680	1,396	1,817	2,369	2,905	3,456	4.0
CARAGA		M&I	170	180	198	221	251	287	332	2.7
		Agriculture	533	891	1,346	1,618	1,986	2,322	2,692	3.7
		Total	703	1,072	1,544	1,840	2,237	2,609	3,024	3.5
Philippines		M&I	4,421	5,186	6,174	7,376	8,720	10,282	12,427	100.0
		Agriculture	25,533	38,167	46,664	52,419	60,003	65,955	72,973	100.0
		Total	29,954	43,353	52,838	59,795	68,723	76,238	85,400	100.0

*Attachment to Part-M: SOCIO-ECONOMIC DATA BY  
ADMINISTRATIVE REGION*

**Table-MA1 PROJECTED SOCIO-ECONOMIC DATA BY ADMINISTRATIVE REGION : NCR**

**(1) Projected Population for NCR**

Items	(Unit: 1,000 persons)													
								Average Annual Growth Rate (%)						
	1995	2000	2005	2010	2015	2020	2025	1995/ 2000	2000/ 2005	2005/ 2010	2010/ 2015	2015/ 2020	2020/ 2025	
Urban	9,454	10,405	11,289	12,020	12,590	13,025	13,349	1.94	1.64	1.26	0.93	0.68	0.49	1.16
Rural	0	0	0	0	0	0	0							
Total	9,454	10,405	11,289	12,020	12,590	13,025	13,349	1.94	1.64	1.26	0.93	0.68	0.49	1.16
Area(km <sup>2</sup> )	636													
Population Density(person/km <sup>2</sup> )	14,865	16,360	17,750	18,899	19,796	20,480	20,989	1.94	1.64	1.26	0.93	0.68	0.49	1.16

**(2) Projected Employment by Sector for NCR**

Sector	(Unit: 1,000 persons)													
								Average Annual Growth Rate (%)						
	1995	2000	2005	2010	2015	2020	2025	1995/ 2000	2000/ 2005	2005/ 2010	2010/ 2015	2015/ 2020	2020/ 2025	
Agriculture	48	49	51	54	56	57	58	0.34	0.80	1.34	0.67	0.45	0.24	0.64
Industry	795	928	1,122	1,222	1,323	1,414	1,492	3.07	3.86	1.72	1.60	1.34	1.08	2.11
Service	2,277	2,891	3,355	3,861	4,392	4,893	5,344	4.89	3.02	2.85	2.61	2.19	1.78	2.88
Total	3,123	3,868	4,528	5,137	5,771	6,364	6,894	4.37	3.20	2.56	2.35	1.98	1.61	2.67

**(3) Projected GRDP by Sector for NCR  
in High Economic Growth Scenario (at 1985 Constant Price)**

Sector	(Unit: Milli. Pesos)													
								Average Annual Growth Rate (%)						
	1995	2000	2005	2010	2015	2020	2025	1995/ 2000	2000/ 2005	2005/ 2010	2010/ 2015	2015/ 2020	2020/ 2025	
Agriculture	0	0	0	0	0	0	0	-	-	-	-	-	-	-
Industry	99,189	143,656	209,111	302,598	432,748	615,545	884,929	7.69	7.80	7.67	7.42	7.30	7.53	7.57
Service	140,931	196,172	275,090	385,546	540,056	773,894	1,134,158	6.84	7.00	6.98	6.97	7.46	7.94	7.20
Total	240,120	339,828	484,201	688,143	972,804	1,389,439	2,019,087	7.19	7.34	7.28	7.17	7.39	7.76	7.36
GRDP Per Capita (peso)	25,398.8	32,660.1	42,891.4	57,249.9	77,268.0	106,674.8	151,253.8	5.16	5.60	5.95	6.18	6.66	7.23	6.13

**(4) Projected GRDP by Sector for NCR  
in Low Economic Growth Scenario (at 1985 Constant Prices)**

Sector	(Unit: Milli. Pesos)													
								Average Annual Growth Rate (%)						
	1995	2000	2005	2010	2015	2020	2025	1995/ 2000	2000/ 2005	2005/ 2010	2010/ 2015	2015/ 2020	2020/ 2025	
Agriculture	0	0	0	0	0	0	0	-	-	-	-	-	-	-
Industry	99,189	138,458	187,745	247,041	314,051	384,688	458,665	6.90	6.28	5.64	4.92	4.14	3.58	5.24
Service	140,931	188,356	244,000	307,139	376,038	453,348	533,872	5.97	5.31	4.71	4.13	3.81	3.32	4.54
Total	240,120	326,833	431,744	554,180	690,090	838,035	992,538	6.36	5.73	5.12	4.43	3.96	3.44	4.84
GRDP Per Capita (peso)	9,454.0	10,007.1	10,066.0	9,650.0	8,931.1	7,856.0	6,562.1	1.14	0.12	-0.78	-1.60	-2.53	-3.54	-1.21

**Table-MA2 PROJECTED SOCIO-ECONOMIC DATA BY ADMINISTRATIVE REGION : CAR**

**(1) Projected Population for CAR**

(Unit:1,000 persons)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)									
								1995/	2000/	2005/	2010/	2015/	2020/	1995/	2000/	2005/	2010/
								2000	2005	2010	2015	2020	2025	2000	2005	2010	2015
Abra	196	208	222	234	244	251	256	1.16	1.31	1.12	0.83	0.57	0.39	0.90			
Benguet	541	626	709	792	874	950	1,023	2.95	2.53	2.25	1.97	1.70	1.49	2.15			
Ifugao	150	179	199	219	237	252	266	3.54	2.19	1.95	1.54	1.28	1.10	1.93			
Kalinga Apayao	238	253	277	298	315	328	339	1.21	1.86	1.49	1.07	0.83	0.65	1.18			
Mt. Province	131	135	146	158	168	176	183	0.65	1.55	1.54	1.24	0.99	0.81	1.13			
<b>Total</b>	<b>1,256</b>	<b>1,400</b>	<b>1,553</b>	<b>1,702</b>	<b>1,837</b>	<b>1,958</b>	<b>2,068</b>	<b>2.19</b>	<b>2.10</b>	<b>1.85</b>	<b>1.54</b>	<b>1.28</b>	<b>1.10</b>	<b>1.68</b>			

**(2) Projected Employment for CAR**

(Unit:1,000 Persons)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)									
								1995/	2000/	2005/	2010/	2015/	2020/	1995/	2000/	2005/	2010/
								2000	2005	2010	2015	2020	2025	2000	2005	2010	2015
Abra	76	78	82	88	92	96	99	0.30	1.00	1.44	0.99	0.83	0.66	0.87			
Benguet	266	275	291	309	323	336	346	0.68	1.07	1.25	0.89	0.75	0.60	0.87			
Ifugao	55	56	59	63	67	70	72	0.36	1.10	1.54	1.06	0.88	0.70	0.94			
Kalinga Apayao	90	91	96	103	109	113	117	0.28	1.01	1.48	1.01	0.84	0.67	0.88			
Mt. Province	52	53	56	60	63	66	68	0.37	1.02	1.42	0.98	0.82	0.66	0.88			
<b>Total</b>	<b>540</b>	<b>554</b>	<b>583</b>	<b>624</b>	<b>654</b>	<b>681</b>	<b>703</b>	<b>0.50</b>	<b>1.05</b>	<b>1.36</b>	<b>0.95</b>	<b>0.80</b>	<b>0.64</b>	<b>0.88</b>			

**(3) Projected GRDP for CAR  
in High Economic Growth Scenario (at 1985 Constant Price)**

(Unit:Milli. Pesos)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)									
								1995/	2000/	2005/	2010/	2015/	2020/	1995/	2000/	2005/	2010/
								2000	2005	2010	2015	2020	2025	2000	2005	2010	2015
Abra	1,825	2,475	3,487	4,935	7,053	10,294	15,478	6.28	7.09	7.20	7.40	7.86	8.50	7.39			
Benguet	9,882	13,975	19,954	28,449	40,402	57,835	84,628	7.18	7.38	7.35	7.27	7.44	7.91	7.42			
Ifugao	1,304	1,769	2,470	3,457	4,871	6,973	10,250	6.29	6.90	6.96	7.10	7.44	8.01	7.11			
Kalinga Apayao	2,424	3,214	4,446	6,187	8,730	12,609	18,775	5.80	6.71	6.83	7.13	7.63	8.29	7.06			
Mt. Province	1,327	1,822	2,579	3,661	5,225	7,587	11,325	6.55	7.19	7.26	7.37	7.74	8.34	7.41			
<b>Total</b>	<b>16,763</b>	<b>23,255</b>	<b>32,936</b>	<b>46,690</b>	<b>66,281</b>	<b>95,299</b>	<b>#####</b>	<b>6.77</b>	<b>7.21</b>	<b>7.23</b>	<b>7.26</b>	<b>7.53</b>	<b>8.07</b>	<b>7.34</b>			

**(4) Projected GRDP for CAR  
in Low Economic Growth Scenario (at 1985 Constant Prices)**

(Unit:Milli. Pesos)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)									
								1995/	2000/	2005/	2010/	2015/	2020/	1995/	2000/	2005/	2010/
								2000	2005	2010	2015	2020	2025	2000	2005	2010	2015
Abra	1,825	2,382	3,095	3,912	4,842	5,864	6,939	5.47	5.37	4.80	4.36	3.90	3.43	4.55			
Benguet	9,882	13,494	17,932	23,167	29,039	35,353	42,015	6.43	5.85	5.26	4.62	4.01	3.51	4.94			
Ifugao	1,304	1,705	2,203	2,772	3,412	4,100	4,815	5.50	5.26	4.70	4.24	3.74	3.27	4.45			
Kalinga Apayao	2,424	3,092	3,941	4,890	5,965	7,134	8,342	4.98	4.97	4.41	4.05	3.64	3.18	4.21			
Mt. Province	1,327	1,756	2,298	2,926	3,637	4,413	5,232	5.76	5.53	4.95	4.45	3.95	3.46	4.68			
<b>Total</b>	<b>16,763</b>	<b>22,429</b>	<b>29,468</b>	<b>37,667</b>	<b>46,894</b>	<b>56,863</b>	<b>67,343</b>	<b>6.00</b>	<b>5.61</b>	<b>5.03</b>	<b>4.48</b>	<b>3.93</b>	<b>3.44</b>	<b>4.74</b>			

**Table-MA3 PROJECTED SOCIO-ECONOMIC DATA BY ADMINISTRATIVE REGION : ADMINISTRATIVE REGION I (ILOCOS)**

**(1) Projected Population for Administrative Region I (ILOCOS)**

(Unit 1,000 persons)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)							
								1995/2000	2000/2005	2005/2010	2010/2015	2015/2020	2020/2025	1995/2025	
Ilocos Norte	483	525	562	598	628	652	674	1.70	1.37	1.24	0.98	0.76	0.64	1.11	
Ilocos Sur	545	584	622	657	686	708	726	1.41	1.27	1.09	0.86	0.64	0.49	0.96	
La Union	597	647	703	755	804	848	886	1.63	1.67	1.45	1.27	1.05	0.90	1.33	
Pangasinan	2,178	2,383	2,594	2,791	2,968	3,120	3,252	1.81	1.71	1.48	1.23	1.01	0.83	1.34	
<b>Total</b>	<b>3,803</b>	<b>4,140</b>	<b>4,482</b>	<b>4,802</b>	<b>5,086</b>	<b>5,328</b>	<b>5,537</b>	<b>1.71</b>	<b>1.60</b>	<b>1.39</b>	<b>1.16</b>	<b>0.93</b>	<b>0.77</b>	<b>1.26</b>	

**(2) Projected Employment Administrative Region I (ILOCOS)**

(Unit 1,000 Persons)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)							
								1995/2000	2000/2005	2005/2010	2010/2015	2015/2020	2020/2025	1995/2025	
Ilocos Norte	184	219	250	281	311	339	363	3.50	2.67	2.38	2.04	1.73	1.41	2.29	
Ilocos Sur	190	221	249	279	307	333	356	3.06	2.40	2.31	1.95	1.65	1.35	2.12	
La Union	252	303	348	393	437	477	514	3.77	2.80	2.45	2.13	1.80	1.47	2.40	
Pangasinan	857	1,030	1,185	1,333	1,476	1,609	1,727	3.75	2.84	2.39	2.06	1.74	1.42	2.36	
<b>Total</b>	<b>1,483</b>	<b>1,773</b>	<b>2,031</b>	<b>2,286</b>	<b>2,531</b>	<b>2,758</b>	<b>2,960</b>	<b>3.64</b>	<b>2.76</b>	<b>2.39</b>	<b>2.06</b>	<b>1.74</b>	<b>1.42</b>	<b>2.33</b>	

**(3) Projected GRDP for Administrative Region I (ILOCOS)  
in High Economic Growth Scenario (at 1985 Constant Price)**

(Unit Milli. Pesos)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)							
								1995/2000	2000/2005	2005/2010	2010/2015	2015/2020	2020/2025	1995/2025	
Ilocos Norte	4,444	6,316	8,434	11,495	15,930	22,679	33,281	7.28	6.08	6.26	6.74	7.32	7.97	6.94	
Ilocos Sur	3,579	5,060	6,796	9,200	12,713	18,043	26,377	7.17	6.08	6.24	6.68	7.25	7.89	6.88	
La Union	3,683	5,260	7,367	10,416	14,953	21,995	33,327	7.42	6.93	7.17	7.50	8.02	8.67	7.62	
Pangasinan	12,315	17,858	25,251	36,164	52,647	78,461	120,486	7.72	7.17	7.45	7.80	8.31	8.96	7.90	
<b>Total</b>	<b>24,021</b>	<b>34,503</b>	<b>47,899</b>	<b>67,275</b>	<b>95,233</b>	<b>141,179</b>	<b>213,471</b>	<b>7.51</b>	<b>6.78</b>	<b>7.03</b>	<b>7.49</b>	<b>8.12</b>	<b>8.82</b>	<b>7.55</b>	

**(4) Projected GRDP for Administrative Region I (ILOCOS)  
in Low Economic Growth Scenario (at 1985 Constant Prices)**

(Unit Milli. Pesos)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)							
								1995/2000	2000/2005	2005/2010	2010/2015	2015/2020	2020/2025	1995/2025	
Ilocos Norte	4,444	6,056	7,477	8,997	10,731	12,580	14,414	6.39	4.30	3.77	3.59	3.23	2.76	4.00	
Ilocos Sur	3,579	4,853	5,996	7,220	8,606	10,088	11,558	6.28	4.32	3.79	3.57	3.23	2.76	3.99	
La Union	3,683	5,048	6,490	8,167	10,112	12,278	14,564	6.51	5.16	4.70	4.37	3.96	3.47	4.69	
Pangasinan	12,315	17,100	22,194	28,209	35,291	43,217	51,668	6.79	5.35	4.91	4.58	4.14	3.64	4.90	
<b>Total</b>	<b>24,021</b>	<b>33,057</b>	<b>42,157</b>	<b>52,593</b>	<b>64,731</b>	<b>78,162</b>	<b>92,205</b>	<b>6.59</b>	<b>4.98</b>	<b>4.52</b>	<b>4.46</b>	<b>4.10</b>	<b>3.36</b>	<b>4.59</b>	



**Table-MA4 PROJECTED SOCIO-ECONOMIC DATA BY ADMINISTRATIVE REGION : ADMINISTRATIVE REGION II (CAGAYAN VALLEY)**

**(1) Projected Population for Administrative Region II (Cagayan Valley)**

(Unit:1,000 persons)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)							
								1995/2000	2000/2005	2005/2010	2010/2015	2015/2020	2020/2025	1995/2000	2000/2005
Batanes	14	17	18	20	20	21	22	3.66	1.10	2.03	0.92	0.81	0.79	1.55	
Cagayan	895	965	1,046	1,123	1,192	1,249	1,297	1.52	1.62	1.43	1.20	0.94	0.76	1.25	
Isabela	1,161	1,317	1,450	1,566	1,656	1,726	1,779	2.56	1.95	1.54	1.13	0.83	0.60	1.43	
Nueva Viscaya	335	366	405	445	483	517	544	1.78	2.07	1.87	1.69	1.34	1.05	1.63	
Quirino	131	147	168	183	209	227	244	2.34	2.66	2.34	2.08	1.72	1.44	2.10	
Total	2,536	2,812	3,087	3,341	3,561	3,741	3,887	2.09	1.88	1.59	1.28	0.99	0.77	1.43	

**(2) Projected Employment for Administrative Region II (Cagayan Valley)**

(Unit:1,000 Persons)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)							
								1995/2000	2000/2005	2005/2010	2010/2015	2015/2020	2020/2025	1995/2000	2000/2005
Batanes	7	8	9	10	11	11	12	2.73	1.67	1.83	1.43	1.17	0.91	1.62	
Cagayan	459	498	540	593	638	677	709	1.62	1.65	1.89	1.46	1.19	0.92	1.46	
Isabela	532	568	613	671	718	758	791	1.31	1.52	1.83	1.36	1.10	0.84	1.33	
Nueva Viscaya	163	175	190	208	223	237	247	1.49	1.60	1.88	1.43	1.16	0.89	1.41	
Quirino	61	65	71	77	82	87	91	1.32	1.52	1.79	1.33	1.08	0.82	1.31	
Total	1,223	1,315	1,422	1,560	1,673	1,770	1,849	1.46	1.58	1.86	1.41	1.14	0.88	1.39	

**(3) Projected GRDP for Administrative Region II (Cagayan Valley)  
in High Economic Growth Scenario (at 1985 Constant Price)**

(Unit:Mili. Pesos)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)							
								1995/2000	2000/2005	2005/2010	2010/2015	2015/2020	2020/2025	1995/2000	2000/2005
Batanes	170	277	389	553	807	1,213	1,886	10.32	7.02	7.27	7.86	8.49	9.23	8.36	
Cagayan	6,142	9,044	12,745	18,161	26,466	39,679	61,506	8.05	7.10	7.34	7.82	8.44	9.16	7.98	
Isabela	6,478	9,613	13,592	19,448	28,502	42,972	67,008	8.22	7.17	7.43	7.94	8.56	9.29	8.10	
Nueva Viscaya	2,289	3,370	4,701	6,624	9,560	14,204	21,818	8.04	6.89	7.10	7.61	8.24	8.96	7.81	
Quirino	1,407	2,101	2,915	4,083	5,886	8,745	13,441	8.35	6.77	6.97	7.59	8.24	8.98	7.81	
Total	16,485	24,405	34,343	48,868	71,220	106,813	165,659	8.16	7.07	7.31	7.82	8.44	9.17	8.00	

**(4) Projected GRDP for Administrative Region II (Cagayan Valley)  
in Low Economic Growth Scenario (at 1985 Constant Prices)**

(Unit:Mili. Pesos)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)							
								1995/2000	2000/2005	2005/2010	2010/2015	2015/2020	2020/2025	1995/2000	2000/2005
Batanes	170	266	341	424	523	630	740	9.38	5.69	4.47	4.28	3.82	3.27	5.03	
Cagayan	6,142	8,664	11,174	14,025	17,380	21,093	24,947	7.12	5.22	4.65	4.38	3.95	3.41	4.78	
Isabela	6,478	9,207	11,900	14,964	18,598	22,620	26,799	7.29	5.27	4.69	4.44	3.99	3.45	4.85	
Nueva Viscaya	2,289	3,229	4,124	5,114	6,271	7,535	8,818	7.13	5.01	4.40	4.16	3.74	3.20	4.60	
Quirino	1,407	2,014	2,551	3,129	3,808	4,537	5,257	7.44	4.84	4.17	4.01	3.56	2.99	4.49	
Total	16,485	23,380	30,090	37,655	46,580	56,415	66,562	7.24	5.18	4.59	4.35	3.91	3.36	4.76	

**Table-MA5 PROJECTED SOCIO-ECONOMIC DATA BY ADMINISTRATIVE REGION : ADMINISTRATIVE REGION III (CENTRAL LUZON)**

**(1) Projected Population for Administrative Region III (Central Luzon)**

(Unit: 1,000 persons)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)							
								1995/2000	2000/2005	2005/2010	2010/2015	2015/2020	2020/2025	1995/2005	2005/2015
Bataan	492	538	591	639	678	710	738	1.80	1.91	1.57	1.18	0.94	0.77	1.36	
Bulacan	1,784	1,924	2,148	2,372	2,588	2,789	2,978	1.53	2.23	2.00	1.76	1.51	1.32	1.72	
Nueva Ecija	1,506	1,589	1,723	1,835	1,926	1,998	2,056	1.08	1.62	1.28	0.97	0.74	0.57	1.04	
Pampanga	1,636	1,907	2,087	2,245	2,376	2,484	2,574	3.11	1.82	1.47	1.14	0.90	0.72	1.52	
Tarlac	946	1,045	1,135	1,215	1,281	1,334	1,377	2.01	1.67	1.38	1.06	0.81	0.63	1.26	
Zambales	569	684	742	794	839	878	912	3.74	1.66	1.36	1.11	0.91	0.77	1.59	
<b>Total</b>	<b>6,933</b>	<b>7,687</b>	<b>8,427</b>	<b>9,101</b>	<b>9,688</b>	<b>10,194</b>	<b>10,635</b>	<b>2.09</b>	<b>1.86</b>	<b>1.55</b>	<b>1.26</b>	<b>1.02</b>	<b>0.85</b>	<b>1.44</b>	

**(2) Projected Employment for Administrative Region III (Central Luzon)**

(Unit: 1,000 Persons)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)							
								1995/2000	2000/2005	2005/2010	2010/2015	2015/2020	2020/2025	1995/2005	2005/2015
Bataan	178	219	255	284	313	339	362	4.24	3.11	2.20	1.93	1.62	1.31	2.40	
Bulacan	685	861	1,017	1,137	1,254	1,362	1,457	4.68	3.38	2.25	1.99	1.67	1.36	2.55	
Nueva Ecija	415	499	576	640	701	757	806	3.75	2.89	2.14	1.85	1.55	1.25	2.23	
Pampanga	646	809	952	1,063	1,173	1,274	1,362	4.59	3.31	2.24	1.98	1.66	1.35	2.52	
Tarlac	252	301	345	384	420	453	482	3.62	2.82	2.13	1.82	1.53	1.24	2.19	
Zambales	204	247	285	318	349	378	402	3.97	2.92	2.16	1.89	1.59	1.29	2.30	
<b>Total</b>	<b>2,380</b>	<b>2,936</b>	<b>3,431</b>	<b>3,826</b>	<b>4,210</b>	<b>4,563</b>	<b>4,871</b>	<b>4.29</b>	<b>3.16</b>	<b>2.20</b>	<b>1.93</b>	<b>1.62</b>	<b>1.32</b>	<b>2.42</b>	

**(3) Projected GRDP for Administrative Region III (Central Luzon)  
in High Economic Growth Scenario (at 1985 Constant Price)**

(Unit: Milli. Pesos)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)							
								1995/2000	2000/2005	2005/2010	2010/2015	2015/2020	2020/2025	1995/2005	2005/2015
Bataan	5,900	8,070	11,355	16,015	22,612	32,255	46,849	6.46	7.07	7.12	7.14	7.36	7.75	7.15	
Bulacan	21,530	30,399	43,772	63,020	90,408	130,508	191,491	7.14	7.56	7.56	7.48	7.62	7.97	7.56	
Nueva Ecija	14,421	19,190	26,498	36,731	51,183	72,229	103,913	5.88	6.67	6.75	6.86	7.13	7.55	6.80	
Pampanga	19,649	27,775	39,992	57,566	82,549	119,161	174,849	7.17	7.56	7.56	7.48	7.62	7.97	7.56	
Tarlac	8,297	11,059	15,281	21,196	29,545	41,713	60,036	5.91	6.68	6.76	6.87	7.14	7.55	6.82	
Zambales	8,586	11,205	15,238	20,815	28,661	40,066	57,156	5.47	6.34	6.44	6.61	6.93	7.36	6.52	
<b>Total</b>	<b>78,383</b>	<b>107,697</b>	<b>152,135</b>	<b>215,344</b>	<b>304,958</b>	<b>435,931</b>	<b>634,294</b>	<b>6.56</b>	<b>7.15</b>	<b>7.20</b>	<b>7.21</b>	<b>7.41</b>	<b>7.79</b>	<b>7.22</b>	

**(4) Projected GRDP for Administrative Region III (Central Luzon)  
in Low Economic Growth Scenario (at 1985 Constant Prices)**

(Unit: Milli. Pesos)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)							
								1995/2000	2000/2005	2005/2010	2010/2015	2015/2020	2020/2025	1995/2005	2005/2015
Bataan	5,900	7,750	10,090	12,818	15,894	19,213	22,667	5.61	5.42	4.90	4.40	3.87	3.36	4.59	
Bulacan	21,530	29,197	38,904	50,470	63,608	77,846	92,825	6.28	5.91	5.34	4.74	4.12	3.58	4.99	
Nueva Ecija	14,421	18,430	23,538	29,380	35,940	42,964	50,186	5.03	5.01	4.53	4.11	3.63	3.16	4.24	
Pampanga	19,649	26,677	35,546	46,105	58,084	71,082	84,758	6.31	5.91	5.34	4.73	4.12	3.58	4.99	
Tarlac	8,297	10,620	13,575	16,955	20,748	24,814	28,997	5.06	5.03	4.55	4.12	3.64	3.16	4.26	
Zambales	8,586	10,761	13,533	16,642	20,111	23,805	27,560	4.62	4.69	4.22	3.86	3.43	2.97	3.96	
<b>Total</b>	<b>78,383</b>	<b>103,435</b>	<b>135,187</b>	<b>172,371</b>	<b>214,385</b>	<b>259,725</b>	<b>306,992</b>	<b>5.70</b>	<b>5.50</b>	<b>4.98</b>	<b>4.46</b>	<b>3.91</b>	<b>3.40</b>	<b>4.66</b>	

**Table-MA6 PROJECTED SOCIO-ECONOMIC DATA BY ADMINISTRATIVE REGION  
: ADMINISTRATIVE REGION IV (SOUTHERN TAGALOG) (1/2)**

**(1) Projected Population for Administrative Region IV (Southern Tagalog)**

(Unit: 1,000 persons)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)							
								1995/ 2000	2000/ 2005	2005/ 2010	2010/ 2015	2015/ 2020	2020/ 2025	1995/ 2000	2000/ 2005
Aurora	160	197	229	261	298	334	371	4.78	3.03	2.68	2.63	2.35	2.12	2.85	
Batangas	1,659	1,843	2,017	2,179	2,348	2,501	2,642	2.12	1.82	1.56	1.51	1.27	1.10	1.56	
Cavite	1,610	1,708	1,823	2,058	2,300	2,587	2,859	1.19	1.31	2.45	2.43	2.20	2.03	1.93	
Laguna	1,631	1,933	2,305	2,658	3,011	3,371	3,740	3.46	3.58	2.89	2.53	2.28	2.10	2.80	
Marikina	200	218	233	245	258	268	276	1.70	1.39	0.96	1.07	0.73	0.60	1.08	
Oce. Mindoro	337	371	418	465	517	568	618	1.95	2.39	2.18	2.14	1.89	1.70	2.04	
Or. Mindoro	609	724	814	902	997	1,087	1,172	3.52	2.36	2.08	2.02	1.74	1.53	2.21	
Palawan	640	747	877	1,021	1,192	1,376	1,577	3.15	3.25	3.08	3.15	2.92	2.76	3.05	
Quezon	1,538	1,779	1,977	2,166	2,373	2,572	2,768	2.65	2.13	1.85	1.84	1.63	1.48	1.98	
Rizal	1,313	1,499	1,809	2,152	2,556	3,001	3,491	2.68	3.83	3.53	3.50	3.26	3.08	3.31	
Romblon	245	282	309	335	364	391	416	2.83	1.86	1.63	1.68	1.44	1.26	1.78	
<b>Total</b>	<b>9,942</b>	<b>11,301</b>	<b>12,810</b>	<b>14,441</b>	<b>16,233</b>	<b>18,056</b>	<b>19,931</b>	<b>2.60</b>	<b>2.54</b>	<b>2.43</b>	<b>2.37</b>	<b>2.15</b>	<b>2.00</b>	<b>2.35</b>	

**(2) Projected Employment for Administrative Region IV (Southern Tagalog)**

(Unit: 1,000 Persons)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)							
								1995/ 2000	2000/ 2005	2005/ 2010	2010/ 2015	2015/ 2020	2020/ 2025	1995/ 2000	2000/ 2005
Aurora	55	65	76	87	97	107	116	3.57	3.22	2.57	2.31	1.98	1.66	2.55	
Batangas	593	709	832	945	1,059	1,168	1,269	3.64	3.25	2.57	2.31	1.98	1.66	2.57	
Cavite	572	685	808	917	1,027	1,132	1,229	3.67	3.34	2.56	2.30	1.97	1.65	2.58	
Laguna	662	801	949	1,076	1,206	1,300	1,443	3.88	3.45	2.56	2.31	1.97	1.64	2.63	
Marikina	72	85	98	112	126	139	151	3.51	2.95	2.61	2.34	2.01	1.68	2.51	
Oce. Mindoro	95	111	127	144	162	178	194	3.05	2.66	2.61	2.33	2.01	1.70	2.39	
Or. Mindoro	194	228	263	300	336	371	403	3.33	2.89	2.60	2.33	2.00	1.68	2.47	
Palawan	151	173	199	226	253	279	303	2.81	2.84	2.56	2.27	1.97	1.68	2.35	
Quezon	519	617	718	815	914	1,009	1,096	3.49	3.09	2.58	2.32	1.99	1.67	2.52	
Rizal	478	573	674	765	857	945	1,026	3.69	3.31	2.56	2.31	1.98	1.65	2.58	
Romblon	67	78	90	102	115	127	138	3.09	2.87	2.58	2.30	1.99	1.68	2.42	
<b>Total</b>	<b>3,458</b>	<b>4,125</b>	<b>4,835</b>	<b>5,489</b>	<b>6,153</b>	<b>6,787</b>	<b>7,368</b>	<b>3.59</b>	<b>3.22</b>	<b>2.57</b>	<b>2.31</b>	<b>1.98</b>	<b>1.66</b>	<b>2.55</b>	

**(3) Projected GRDP for Administrative Region IV (Southern Tagalog)  
in High Economic Growth Scenario (at 1985 Constant Price)**

(Unit: Milli. Pesos)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)							
								1995/ 2000	2000/ 2005	2005/ 2010	2010/ 2015	2015/ 2020	2020/ 2025	1995/ 2000	2000/ 2005
Aurora	3,766	4,862	6,636	9,141	12,788	18,223	26,615	5.24	6.42	6.61	6.95	7.34	7.87	6.74	
Batangas	18,618	27,229	40,723	60,986	91,059	136,897	209,688	7.90	8.38	8.41	8.35	8.50	8.90	8.41	
Cavite	17,401	26,016	39,539	60,035	90,586	137,230	211,540	8.38	8.73	8.71	8.58	8.66	9.04	8.68	
Laguna	21,792	32,575	49,519	75,210	113,521	172,004	265,179	8.37	8.74	8.72	8.58	8.67	9.04	8.69	
Marikina	2,366	3,268	4,671	6,711	9,693	14,212	21,305	6.67	7.41	7.52	7.63	7.65	8.44	7.60	
Oce. Mindoro	5,858	7,281	9,574	12,668	17,074	23,561	33,371	4.44	5.63	5.76	6.15	6.65	7.21	5.97	
Or. Mindoro	7,293	9,790	13,714	19,345	27,543	39,898	59,167	6.07	6.97	7.12	7.32	7.69	8.20	7.23	
Palawan	13,214	16,270	21,316	28,140	37,927	52,259	73,891	4.25	5.55	5.71	6.15	6.62	7.17	5.91	
Quezon	19,137	26,486	38,051	54,992	79,893	117,594	176,875	6.72	7.52	7.64	7.76	8.04	8.51	7.69	
Rizal	14,470	21,555	32,658	49,449	74,444	112,604	173,360	8.30	8.66	8.65	8.53	8.63	9.01	8.63	
Romblon	2,358	3,223	4,542	6,447	9,232	13,431	19,955	6.18	7.10	7.26	7.45	7.79	8.28	7.34	
<b>Total</b>	<b>126,303</b>	<b>178,554</b>	<b>260,944</b>	<b>383,122</b>	<b>563,759</b>	<b>837,912</b>	<b>1,230,987</b>	<b>7.17</b>	<b>7.88</b>	<b>7.98</b>	<b>8.03</b>	<b>8.25</b>	<b>8.69</b>	<b>8.00</b>	

**Table-MA6 PROJECTED SOCIO-ECONOMIC DATA BY ADMINISTRATIVE REGION  
: ADMINISTRATIVE REGION IV (SOUTHERN TAGALOG) (2/2)**

**(4) Projected GRDP for Administrative Region IV (Southern Tagalog)  
in Low Economic Growth Scenario (at 1985 Constant Prices)**

Province	(Unit:Milli. Pesos)															
								Average Annual Growth Rate (%)								
	1995	2000	2005	2010	2015	2020	2025	1995/ 2000	2000/ 2005	2005/ 2010	2010/ 2015	2015/ 2020	2020/ 2025	1995/ 2025		
Aurora	3,766	4,664	5,859	7,209	8,757	10,419	12,125	4.37	4.67	4.23	3.97	3.54	3.08	3.97		
Batangas	18,618	26,021	35,867	47,924	62,059	77,790	94,785	6.98	6.57	5.97	5.31	4.62	4.03	5.57		
Cavite	17,401	24,920	34,801	47,132	61,662	77,866	95,462	7.45	6.91	6.25	5.52	4.78	4.16	5.84		
Laguna	21,792	31,202	43,583	59,041	77,265	97,583	119,649	7.44	6.91	6.26	5.53	4.78	4.16	5.84		
Marinduque	2,366	3,134	4,122	5,290	6,632	8,116	9,688	5.78	5.63	5.12	4.63	4.12	3.60	4.81		
Occ. Mindoro	5,858	6,988	8,468	10,021	11,744	13,555	15,324	3.59	3.92	3.42	3.23	2.91	2.48	3.26		
Or. Mindoro	7,293	9,291	12,108	15,257	18,862	22,811	26,944	5.19	5.21	4.73	4.33	3.88	3.39	4.45		
Palawan	13,214	15,613	18,844	22,237	26,050	30,006	33,855	3.39	3.83	3.37	3.22	2.87	2.44	3.19		
Quezon	19,437	25,323	33,559	43,299	54,589	67,036	80,260	5.82	5.73	5.23	4.74	4.19	3.67	4.89		
Rizal	14,470	20,650	28,750	38,832	50,693	63,920	78,270	7.37	6.84	6.30	5.48	4.75	4.13	5.79		
Romblon	2,288	3,091	4,009	5,081	6,317	7,670	9,092	5.30	5.34	4.85	4.45	3.96	3.46	4.56		
<b>Total</b>	<b>126,303</b>	<b>171,137</b>	<b>229,971</b>	<b>301,322</b>	<b>384,620</b>	<b>476,772</b>	<b>575,454</b>	<b>6.26</b>	<b>6.09</b>	<b>5.55</b>	<b>5.00</b>	<b>4.39</b>	<b>3.83</b>	<b>5.18</b>		

**Table-MA7 PROJECTED SOCIO-ECONOMIC DATA BY ADMINISTRATIVE REGION : ADMINISTRATIVE REGION V (BICOL)**

**(1) Projected Population for Administrative Region V (Bicol)**

(Unit: 1,000 persons)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)							
								1995/2000	2000/2005	2005/2010	2010/2015	2015/2020	2020/2025	1995/2000	2000/2005
Albay	1,005	1,096	1,196	1,289	1,370	1,438	1,494	1.75	1.76	1.52	1.22	0.97	0.77	1.33	
Camarines Norte	439	511	579	647	713	777	837	3.10	2.50	2.26	1.97	1.72	1.51	2.18	
Camarines Sur	1,433	1,642	1,806	1,968	2,117	2,251	2,369	2.76	1.93	1.73	1.47	1.23	1.03	1.69	
Catanduanes	203	229	254	279	302	325	347	2.47	2.09	1.88	1.59	1.45	1.34	1.80	
Masbate	654	678	704	726	743	752	757	0.71	0.76	0.63	0.47	0.23	0.13	0.49	
Sorsogon	592	600	626	651	674	689	697	0.26	0.85	0.79	0.69	0.45	0.23	0.55	
<b>Total</b>	<b>4,326</b>	<b>4,756</b>	<b>5,165</b>	<b>5,561</b>	<b>5,920</b>	<b>6,231</b>	<b>6,501</b>	<b>1.91</b>	<b>1.66</b>	<b>1.49</b>	<b>1.26</b>	<b>1.03</b>	<b>0.85</b>	<b>1.37</b>	

**(2) Projected Employment for Administrative Region V (Bicol)**

(Unit: 1,000 Persons)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)							
								1995/2000	2000/2005	2005/2010	2010/2015	2015/2020	2020/2025	1995/2000	2000/2005
Albay	507	592	670	747	821	889	948	3.14	2.52	2.21	1.90	1.60	1.30	2.11	
Camarines Norte	204	236	265	296	324	351	373	2.93	2.40	2.19	1.86	1.57	1.28	2.04	
Camarines Sur	607	691	769	850	945	1,024	1,093	2.61	2.17	2.26	1.91	1.61	1.31	1.98	
Catanduanes	89	102	114	128	140	152	162	2.74	2.26	2.23	1.90	1.60	1.30	2.00	
Masbate	251	282	312	347	379	409	434	2.33	2.05	2.16	1.80	1.52	1.23	1.85	
Sorsogon	243	275	307	342	374	404	430	2.54	2.17	2.19	1.84	1.55	1.26	1.92	
<b>Total</b>	<b>1,901</b>	<b>2,177</b>	<b>2,437</b>	<b>2,719</b>	<b>2,984</b>	<b>3,228</b>	<b>3,441</b>	<b>2.75</b>	<b>2.28</b>	<b>2.21</b>	<b>1.88</b>	<b>1.58</b>	<b>1.29</b>	<b>2.00</b>	

**(3) Projected GRDP for Administrative Region V (Bicol)  
in High Economic Growth Scenario (at 1985 Constant Price)**

(Unit: Milli. Pesos)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)							
								1995/2000	2000/2005	2005/2010	2010/2015	2015/2020	2020/2025	1995/2000	2000/2005
Albay	5,927	7,984	11,060	15,372	21,398	30,132	43,207	6.14	6.74	6.81	6.84	7.09	7.47	6.85	
Camarines Norte	2,795	3,622	4,877	6,604	9,004	12,461	17,590	5.32	6.13	6.25	6.40	6.71	7.14	6.32	
Camarines Sur	6,928	8,813	11,657	15,458	20,735	28,300	39,440	4.93	5.75	5.85	6.01	6.42	6.86	5.97	
Catanduanes	1,436	1,786	2,325	3,045	4,032	5,443	7,507	4.46	5.42	5.54	5.78	6.18	6.64	5.67	
Masbate	3,635	4,478	5,783	7,511	9,874	13,241	18,146	4.26	5.25	5.37	5.62	6.04	6.51	5.51	
Sorsogon	2,798	3,585	4,776	6,395	8,628	11,845	16,598	5.08	5.90	6.01	6.17	6.54	6.98	6.11	
<b>Total</b>	<b>23,520</b>	<b>30,267</b>	<b>40,478</b>	<b>54,417</b>	<b>73,672</b>	<b>101,422</b>	<b>142,489</b>	<b>5.17</b>	<b>5.99</b>	<b>6.10</b>	<b>6.25</b>	<b>6.60</b>	<b>7.04</b>	<b>6.19</b>	

**(4) Projected GRDP for Administrative Region V (Bicol)  
in Low Economic Growth Scenario (at 1985 Constant Prices)**

(Unit: Milli. Pesos)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)							
								1995/2000	2000/2005	2005/2010	2010/2015	2015/2020	2020/2025	1995/2000	2000/2005
Albay	5,927	7,669	9,851	12,378	15,201	18,241	21,391	5.29	5.14	4.67	4.19	3.71	3.24	4.37	
Camarines Norte	2,795	3,479	4,343	5,320	6,403	7,559	8,740	4.48	4.54	4.14	3.78	3.33	2.95	3.87	
Camarines Sur	6,928	8,463	10,384	12,489	14,775	17,222	19,680	4.08	4.18	3.76	3.42	3.11	2.70	3.54	
Catanduanes	1,436	1,715	2,071	2,454	2,873	3,314	3,752	3.61	3.84	3.46	3.20	2.90	2.51	3.25	
Masbate	3,635	4,300	5,150	6,055	7,037	8,068	9,083	3.42	3.67	3.29	3.05	2.77	2.40	3.10	
Sorsogon	2,798	3,443	4,254	5,154	6,142	7,198	8,266	4.23	4.32	3.92	3.57	3.22	2.81	3.68	
<b>Total</b>	<b>23,520</b>	<b>29,070</b>	<b>36,053</b>	<b>43,851</b>	<b>52,431</b>	<b>61,601</b>	<b>70,912</b>	<b>4.33</b>	<b>4.40</b>	<b>3.99</b>	<b>3.64</b>	<b>3.28</b>	<b>2.85</b>	<b>3.75</b>	

**Table-MA8 PROJECTED SOCIO-ECONOMIC DATA BY ADMINISTRATIVE REGION : ADMINISTRATIVE REGION VI (WESTERN VISAYAS)**

**(1) Projected Population for Administrative Region VI (Western Visayas)**

Province	(Unit:1,000 persons)													
								Average Annual Growth Rate (%)						
	1995	2000	2005	2010	2015	2020	2025	1995/ 2000	2000/ 2005	2005/ 2010	2010/ 2015	2015/ 2020	2020/ 2025	1995/ 2025
Aldan	411	441	480	519	556	588	617	1.42	1.71	1.59	1.38	1.14	0.96	1.37
Antique	432	480	525	572	617	659	700	2.13	1.83	1.72	1.53	1.34	1.21	1.63
Capiz	624	681	743	803	858	905	946	1.75	1.75	1.57	1.33	1.08	0.89	1.39
Boho	1,876	2,067	2,246	2,417	2,574	2,711	2,834	1.96	1.67	1.48	1.26	1.04	0.89	1.38
Negros Occ.	2,434	2,656	2,891	3,110	3,302	3,464	3,604	1.76	1.71	1.47	1.20	0.97	0.79	1.32
<b>Total</b>	<b>5,777</b>	<b>6,324</b>	<b>6,884</b>	<b>7,421</b>	<b>7,906</b>	<b>8,328</b>	<b>8,701</b>	<b>1.83</b>	<b>1.71</b>	<b>1.51</b>	<b>1.27</b>	<b>1.05</b>	<b>0.83</b>	<b>1.37</b>

**(2) Projected Employment for Administrative Region VI (Western Visayas)**

Province	(Unit:1,000 Persons)													
								Average Annual Growth Rate (%)						
	1995	2000	2005	2010	2015	2020	2025	1995/ 2000	2000/ 2005	2005/ 2010	2010/ 2015	2015/ 2020	2020/ 2025	1995/ 2025
Aldan	171	199	225	252	279	303	325	3.05	2.50	2.33	2.00	1.70	1.39	2.16
Antique	151	171	191	214	236	256	274	2.50	2.18	2.32	1.95	1.66	1.36	1.99
Capiz	223	253	283	317	349	378	404	2.57	2.23	2.30	1.93	1.64	1.34	2.00
Boho	769	891	1,006	1,134	1,257	1,372	1,475	3.00	2.44	2.43	2.08	1.77	1.45	2.19
Negros Occ.	1,033	1,203	1,361	1,535	1,705	1,863	2,004	3.09	2.49	2.45	2.11	1.80	1.47	2.23
<b>Total</b>	<b>2,348</b>	<b>2,718</b>	<b>3,065</b>	<b>3,452</b>	<b>3,825</b>	<b>4,173</b>	<b>4,482</b>	<b>2.97</b>	<b>2.43</b>	<b>2.41</b>	<b>2.07</b>	<b>1.76</b>	<b>1.44</b>	<b>2.18</b>

**(3) Projected GRDP for Administrative Region VI (Western Visayas)  
in High Economic Growth Scenario (at 1985 Constant Price)**

Province	(Unit:Milli. Pesos)													
								Average Annual Growth Rate (%)						
	1995	2000	2005	2010	2015	2020	2025	1995/ 2000	2000/ 2005	2005/ 2010	2010/ 2015	2015/ 2020	2020/ 2025	1995/ 2025
Aldan	4,933	6,436	8,768	11,972	16,426	22,840	32,356	5.46	6.38	6.43	6.53	6.81	7.21	6.47
Antique	4,482	5,588	7,358	9,719	12,984	17,683	24,603	4.51	5.66	5.72	5.96	6.37	6.83	5.84
Capiz	5,827	7,433	9,934	13,368	18,101	24,924	35,020	4.99	6.01	6.08	6.25	6.61	7.04	6.16
Boho	17,363	22,983	31,485	43,197	59,445	83,065	118,329	5.77	6.50	6.53	6.59	6.92	7.33	6.61
Negros Occ.	25,623	33,646	45,866	62,642	85,908	119,686	170,029	5.60	6.39	6.43	6.52	6.86	7.27	6.51
<b>Total</b>	<b>58,228</b>	<b>76,087</b>	<b>103,431</b>	<b>140,898</b>	<b>192,863</b>	<b>268,198</b>	<b>380,337</b>	<b>5.50</b>	<b>6.33</b>	<b>6.38</b>	<b>6.48</b>	<b>6.82</b>	<b>7.24</b>	<b>6.46</b>

**(4) Projected GRDP for Administrative Region VI (Western Visayas)  
in Low Economic Growth Scenario (at 1985 Constant Prices)**

Province	(Unit:Milli. Pesos)													
								Average Annual Growth Rate (%)						
	1995	2000	2005	2010	2015	2020	2025	1995/ 2000	2000/ 2005	2005/ 2010	2010/ 2015	2015/ 2020	2020/ 2025	1995/ 2025
Aldan	4,933	6,186	7,808	9,626	11,634	13,764	15,922	4.63	4.77	4.27	3.86	3.42	2.96	3.98
Antique	4,482	5,369	6,541	7,782	9,131	10,544	11,923	3.68	4.03	3.54	3.25	2.92	2.49	3.32
Capiz	5,827	7,142	8,855	10,724	12,772	14,935	17,092	4.16	4.39	3.90	3.56	3.18	2.74	3.65
Boho	17,363	22,086	28,030	34,707	42,046	49,933	57,971	4.93	4.88	4.37	3.91	3.50	3.03	4.10
Negros Occ.	25,623	32,332	40,827	50,312	60,730	71,892	83,220	4.76	4.78	4.27	3.84	3.43	2.97	4.00
<b>Total</b>	<b>58,228</b>	<b>73,115</b>	<b>92,061</b>	<b>113,151</b>	<b>136,313</b>	<b>161,067</b>	<b>186,129</b>	<b>4.66</b>	<b>4.72</b>	<b>4.21</b>	<b>3.79</b>	<b>3.39</b>	<b>2.93</b>	<b>3.95</b>

**Table-MA9 PROJECTED SOCIO-ECONOMIC DATA BY ADMINISTRATIVE REGION : ADMINISTRATIVE REGION VII (CENTRAL VISAYAS)**

**(1) Projected Population for Administrative Region VII (Central Visayas)**

(Unit: 1,000 persons)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)							
								1995/	2000/	2005/	2010/	2015/	2020/	1995/	
								2000	2005	2010	2015	2020	2025		
Bohol	994	1,139	1,256	1,367	1,471	1,567	1,657	2.76	1.97	1.71	1.48	1.27	1.12	1.72	
Cebu	2,921	3,246	3,586	3,908	4,196	4,451	4,678	2.13	2.02	1.73	1.44	1.19	1.00	1.58	
Negros Or.	1,025	1,072	1,140	1,203	1,257	1,299	1,332	0.90	1.24	1.08	0.89	0.66	0.50	0.83	
Siquijor	74	82	86	90	94	96	98	2.17	0.93	0.88	0.79	0.52	0.31	0.93	
Total	5,014	5,539	6,068	6,567	7,018	7,414	7,765	2.01	1.84	1.59	1.34	1.10	0.93	1.47	

**(2) Projected Employment for Administrative Region VII (Central Visayas)**

(Unit: 1,000 Persons)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)							
								1995/	2000/	2005/	2010/	2015/	2020/	1995/	
								2000	2005	2010	2015	2020	2025		
Bohol	315	353	396	432	465	495	520	2.32	2.31	1.80	1.47	1.23	1.00	1.69	
Cebu	1,194	1,373	1,559	1,707	1,843	1,966	2,073	2.83	2.58	1.82	1.55	1.30	1.06	1.85	
Negros Or.	348	385	425	463	495	524	549	2.05	2.02	1.69	1.37	1.15	0.92	1.53	
Siquijor	18	20	22	24	26	28	29	1.90	2.17	1.83	1.44	1.20	0.97	1.58	
Total	1,875	2,131	2,403	2,626	2,830	3,013	3,171	2.59	2.43	1.80	1.50	1.26	1.02	1.77	

**(3) Projected GRDP for Administrative Region VII (Central Visayas) in High Economic Growth Scenario (at 1985 Constant Price)**

(Unit: Milli. Pesos)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)							
								1995/	2000/	2005/	2010/	2015/	2020/	1995/	
								2000	2005	2010	2015	2020	2025		
Bohol	8,551	11,981	17,247	25,025	36,483	54,054	82,021	6.98	7.56	7.73	7.83	8.18	8.70	7.83	
Cebu	33,206	48,711	72,383	107,765	160,158	240,955	370,272	7.96	8.24	8.29	8.25	8.51	8.97	8.37	
Negros Or.	10,491	14,467	20,527	29,368	42,291	62,118	93,592	6.64	7.25	7.43	7.57	7.99	8.54	7.57	
Siquijor	434	584	818	1,162	1,667	2,434	3,649	6.14	6.97	7.26	7.49	7.87	8.43	7.36	
Total	52,681	75,743	110,975	163,320	240,599	359,561	549,534	7.53	7.94	8.03	8.06	8.37	8.85	8.13	

**(4) Projected GRDP for Administrative Region VII (Central Visayas) in Low Economic Growth Scenario (at 1985 Constant Prices)**

(Unit: Milli. Pesos)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)							
								1995/	2000/	2005/	2010/	2015/	2020/	1995/	
								2000	2005	2010	2015	2020	2025		
Bohol	8,551	11,489	15,213	19,714	24,929	30,778	37,082	6.09	5.78	5.32	4.81	4.31	3.80	5.01	
Cebu	33,206	46,700	63,749	84,592	108,813	136,103	165,663	7.06	6.42	5.82	5.16	4.58	4.01	5.50	
Negros Or.	10,491	13,879	18,125	23,173	28,960	35,463	42,433	5.76	5.48	5.04	4.56	4.13	3.65	4.77	
Siquijor	434	560	723	918	1,146	1,399	1,670	5.25	5.23	4.91	4.53	4.07	3.61	4.60	
Total	52,681	72,627	97,810	128,398	163,848	203,743	246,848	6.63	6.13	5.59	5.00	4.45	3.91	5.28	

**Table-MA10 PROJECTED SOCIO-ECONOMIC DATA BY ADMINISTRATIVE REGION : ADMINISTRATIVE REGION VIII (EASTERN VISAYAS)**

**(1) Projected Population for Administrative Region VII (Eastern Visayas)**

(Unit:1,000 persons)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)							
								1995/ 2000	2000/ 2005	2005/ 2010	2010/ 2015	2015/ 2020	2020/ 2025	1995/ 2000	2000/ 2005
Leyte	1,643	1,827	2,048	2,255	2,460	2,654	2,839	2.15	2.31	1.94	1.76	1.53	1.35	1.84	
So. Leyte	318	403	455	506	556	604	650	4.85	2.43	2.15	1.88	1.66	1.49	2.41	
E. Samar	362	389	426	456	480	500	516	1.44	1.84	1.38	1.03	0.80	0.63	1.19	
N. Samar	454	490	496	529	554	571	582	1.52	0.27	1.30	0.92	0.62	0.38	0.83	
W. Samar	589	635	707	777	848	916	984	1.53	2.15	1.90	1.76	1.57	1.43	1.72	
Total	3,366	3,744	4,133	4,524	4,898	5,245	5,571	2.15	2.00	1.82	1.60	1.38	1.21	1.60	

**(2) Projected Employment for Administrative Region VII (Eastern Visayas)**

(Unit:1,000 Persons)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)							
								1995/ 2000	2000/ 2005	2005/ 2010	2010/ 2015	2015/ 2020	2020/ 2025	1995/ 2000	2000/ 2005
Leyte	741	800	866	946	1,015	1,078	1,133	1.53	1.60	1.79	1.43	1.21	0.99	1.42	
So. Leyte	136	145	157	172	184	196	206	1.39	1.55	1.82	1.44	1.22	1.01	1.40	
E. Samar	175	189	205	224	241	257	270	1.61	1.60	1.82	1.47	1.24	1.02	1.46	
N. Samar	199	215	232	254	272	289	303	1.48	1.59	1.78	1.42	1.20	0.99	1.41	
W. Samar	210	221	237	260	279	296	311	1.01	1.44	1.84	1.41	1.20	0.99	1.31	
Total	1,461	1,570	1,697	1,855	1,992	2,115	2,223	1.44	1.57	1.80	1.43	1.21	1.00	1.41	

**(3) Projected GRDP for Administrative Region VII (Eastern Visayas)  
in High Economic Growth Scenario (at 1985 Constant Price)**

(Unit:Milli. Pesos)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)							
								1995/ 2000	2000/ 2005	2005/ 2010	2010/ 2015	2015/ 2020	2020/ 2025	1995/ 2000	2000/ 2005
Leyte	9,210	13,814	21,635	34,258	54,570	88,027	145,768	8.45	9.39	9.63	9.76	10.04	10.61	9.64	
So. Leyte	1,562	2,181	3,272	4,969	7,643	11,985	19,346	6.91	8.45	8.72	8.99	9.41	10.05	8.75	
E. Samar	2,770	3,629	5,262	7,715	11,514	17,600	27,739	5.55	7.71	7.95	8.34	8.86	9.53	7.98	
N. Samar	3,012	4,335	6,703	10,489	16,579	26,589	43,819	7.56	9.11	9.37	9.59	9.91	10.51	9.34	
W. Samar	2,819	3,638	5,305	7,827	11,788	18,172	28,890	5.23	7.84	8.09	8.53	9.04	9.72	8.07	
Total	19,373	27,598	42,177	65,259	102,094	162,374	265,561	7.33	8.85	9.12	9.36	9.72	10.34	9.12	

**(4) Projected GRDP for Administrative Region VII (Eastern Visayas)  
in Low Economic Growth Scenario (at 1985 Constant Prices)**

(Unit:Milli. Pesos)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)							
								1995/ 2000	2000/ 2005	2005/ 2010	2010/ 2015	2015/ 2020	2020/ 2025	1995/ 2000	2000/ 2005
Leyte	9,210	13,175	18,770	26,054	35,125	45,690	57,590	7.42	7.33	6.78	6.16	5.40	4.74	6.30	
So. Leyte	1,562	2,085	2,854	3,810	4,975	6,310	7,778	5.94	6.48	5.95	5.48	4.87	4.27	5.50	
E. Samar	2,770	3,474	4,604	5,939	7,531	9,317	11,214	4.63	5.79	5.22	4.86	4.35	3.78	4.77	
N. Samar	3,012	4,137	5,817	7,966	10,637	13,725	17,170	6.56	7.05	6.49	5.95	5.23	4.58	5.97	
W. Samar	2,819	3,481	4,629	5,983	7,618	9,446	11,385	4.31	5.87	5.27	4.95	4.40	3.80	4.76	
Total	19,373	26,352	36,673	49,752	65,884	84,488	105,136	6.35	6.83	6.29	5.78	5.10	4.47	5.80	



**Table-MA11 PROJECTED SOCIO-ECONOMIC DATA BY ADMINISTRATIVE REGIO  
ADMINISTRATIVE REGION IX (WESTERN MINDANAO)**

**(1) Projected Population for Administrative Region IX (Western Mindanao)**

(Unit: 1,000 persons)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)									
								1995/	2000/	2005/	2010/	2015/	2020/	1995/	2000/	2005/	2025/
								2000	2005	2010	2015	2020	2025	2000	2005	2010	2025
Basilan	295	306	318	345	367	385	401	0.67	0.75	1.66	1.27	0.99	0.78	1.02			
Zambo. N.	771	854	958	1,055	1,146	1,230	1,306	2.07	2.32	1.95	1.67	1.42	1.22	1.77			
Zambo. S.	1,728	1,992	2,247	2,483	2,702	2,902	3,084	2.88	2.43	2.02	1.71	1.44	1.22	1.95			
Total	2,795	3,152	3,522	3,883	4,216	4,518	4,792	2.43	2.24	1.97	1.66	1.39	1.18	1.81			

**(2) Projected Employment for Administrative Region IX (Western Mindanao)**

(Unit: 1,000 Persons)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)									
								1995/	2000/	2005/	2010/	2015/	2020/	1995/	2000/	2005/	2025/
								2000	2005	2010	2015	2020	2025	2000	2005	2010	2025
Basilan	92	105	121	138	155	171	186	2.85	2.77	2.76	2.32	1.98	1.63	2.38			
Zambo. N.	266	312	361	416	470	522	568	3.26	2.94	2.88	2.47	2.11	1.73	2.56			
Zambo. S.	676	815	957	1,107	1,257	1,401	1,531	3.80	3.26	2.96	2.57	2.19	1.80	2.76			
Total	1,034	1,233	1,439	1,662	1,882	2,094	2,285	3.58	3.14	2.92	2.53	2.15	1.77	2.68			

**(3) Projected GRDP for Administrative Region IX (Western Mindanao)  
in High Economic Growth Scenario (at 1985 Constant Price)**

(Unit: Milli. Pesos)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)									
								1995/	2000/	2005/	2010/	2015/	2020/	1995/	2000/	2005/	2025/
								2000	2005	2010	2015	2020	2025	2000	2005	2010	2025
Basilan	1,606	1,971	2,493	3,193	4,151	5,519	7,529	4.18	4.81	5.08	5.39	5.86	6.41	5.28			
Zambo. N.	6,937	8,292	10,203	12,704	16,081	20,843	27,736	3.63	4.23	4.48	4.83	5.32	5.88	4.73			
Zambo. S.	13,055	16,587	21,707	28,747	38,495	52,561	73,490	4.90	5.53	5.78	6.01	6.43	6.93	5.93			
Total	21,599	26,850	34,403	44,645	58,727	78,923	108,755	4.45	5.08	5.35	5.64	6.09	6.62	5.54			

**(4) Projected GRDP for Administrative Region IX (Western Mindanao)  
in Low Economic Growth Scenario (at 1985 Constant Prices)**

(Unit: Milli. Pesos)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)									
								1995/	2000/	2005/	2010/	2015/	2020/	1995/	2000/	2005/	2025/
								2000	2005	2010	2015	2020	2025	2000	2005	2010	2025
Basilan	1,606	1,893	2,226	2,599	3,009	3,449	3,828	3.34	3.30	3.14	2.97	2.77	2.48	3.00			
Zambo. N.	6,937	7,962	9,121	10,378	11,746	13,201	14,665	2.79	2.75	2.62	2.51	2.36	2.13	2.53			
Zambo. S.	13,055	15,926	19,365	23,301	27,673	32,395	37,277	4.05	3.99	3.77	3.50	3.20	2.85	3.56			
Total	21,599	25,781	30,712	36,278	42,429	49,044	55,840	3.60	3.56	3.39	3.18	2.94	2.63	3.22			

**Table-MA12 PROJECTED SOCIO-ECONOMIC DATA BY ADMINISTRATIVE REGION : ADMINISTRATIVE REGION X (NORTHERN MINDANAO)**

**(1) Projected Population for Administrative Region X (Northern Mindanao)**

(Unit: 1,000 persons)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)											
								1995/2000		2000/2005		2005/2010		2010/2015		2015/2020		2020/2025	
								1995/2000	2000/2005	2005/2010	2010/2015	2015/2020	2020/2025	1995/2000	2000/2005	2005/2010	2010/2015	2015/2020	2020/2025
Bukidnon	940	1,130	1,288	1,445	1,597	1,736	1,863	3.75	2.65	2.33	2.02	1.60	1.42	2.31					
Comiguin	68	74	80	86	91	94	97	1.84	1.47	1.38	1.07	0.78	0.55	1.18					
Misamis Occ	459	492	525	554	576	591	599	1.39	1.30	1.10	0.79	0.51	0.28	0.89					
Misamis Or.	1,016	1,066	1,168	1,260	1,339	1,401	1,448	0.96	1.84	1.53	1.22	0.91	0.66	1.19					
<b>Total</b>	<b>2,483</b>	<b>2,762</b>	<b>3,060</b>	<b>3,345</b>	<b>3,602</b>	<b>3,823</b>	<b>4,007</b>	<b>2.15</b>	<b>2.07</b>	<b>1.79</b>	<b>1.50</b>	<b>1.19</b>	<b>0.95</b>	<b>1.61</b>					

**(2) Projected Employment for Administrative Region X (Northern Mindanao)**

(Unit: 1,000 Persons)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)											
								1995/2000		2000/2005		2005/2010		2010/2015		2015/2020		2020/2025	
								1995/2000	2000/2005	2005/2010	2010/2015	2015/2020	2020/2025	1995/2000	2000/2005	2005/2010	2010/2015	2015/2020	2020/2025
Bukidnon	335	358	387	424	456	485	510	1.34	1.58	1.87	1.46	1.23	1.00	1.41					
Comiguin	22	24	26	28	30	32	34	1.19	1.55	1.87	1.44	1.21	0.99	1.38					
Misamis Occ	182	196	213	233	251	267	281	1.54	1.62	1.87	1.48	1.25	1.02	1.46					
Misamis Or.	481	525	570	622	668	710	745	1.78	1.66	1.77	1.43	1.21	0.98	1.47					
<b>Total</b>	<b>1,019</b>	<b>1,103</b>	<b>1,195</b>	<b>1,308</b>	<b>1,406</b>	<b>1,494</b>	<b>1,570</b>	<b>1.58</b>	<b>1.63</b>	<b>1.82</b>	<b>1.45</b>	<b>1.22</b>	<b>1.00</b>	<b>1.45</b>					

**(3) Projected GRDP for Administrative Region X (Northern Mindanao) in High Economic Growth Scenario (at 1985 Constant Price)**

(Unit: Mill. Pesos)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)											
								1995/2000		2000/2005		2005/2010		2010/2015		2015/2020		2020/2025	
								1995/2000	2000/2005	2005/2010	2010/2015	2015/2020	2020/2025	1995/2000	2000/2005	2005/2010	2010/2015	2015/2020	2020/2025
Bukidnon	8,842	11,804	16,226	22,534	31,761	45,711	67,543	5.95	6.57	6.79	7.11	7.55	8.12	7.01					
Comiguin	383	537	771	1,118	1,634	2,425	3,685	7.00	7.53	7.71	7.88	8.21	8.73	7.84					
Misamis Occ	3,627	5,033	7,141	10,203	14,688	21,535	32,349	6.78	7.24	7.40	7.56	7.95	8.48	7.57					
Misamis Or.	11,165	16,167	23,879	35,349	52,535	79,042	121,557	7.68	8.08	8.20	8.25	8.51	8.99	8.28					
<b>Total</b>	<b>24,016</b>	<b>33,541</b>	<b>47,977</b>	<b>69,204</b>	<b>100,618</b>	<b>148,713</b>	<b>225,134</b>	<b>6.91</b>	<b>7.42</b>	<b>7.60</b>	<b>7.77</b>	<b>8.13</b>	<b>8.65</b>	<b>7.73</b>					

**(4) Projected GRDP for Administrative Region X (Northern Mindanao) in Low Economic Growth Scenario (at 1985 Constant Prices)**

(Unit: Mill. Pesos)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)											
								1995/2000		2000/2005		2005/2010		2010/2015		2015/2020		2020/2025	
								1995/2000	2000/2005	2005/2010	2010/2015	2015/2020	2020/2025	1995/2000	2000/2005	2005/2010	2010/2015	2015/2020	2020/2025
Bukidnon	8,842	11,318	14,316	17,748	21,692	26,004	30,499	5.06	4.81	4.39	4.10	3.69	3.24	4.21					
Comiguin	383	514	679	877	1,109	1,367	1,643	6.09	5.72	5.26	4.80	4.27	3.75	4.98					
Misamis Occ	3,627	4,826	6,298	8,033	10,028	12,246	14,600	5.88	5.47	4.99	4.53	4.08	3.58	4.75					
Misamis Or.	11,165	15,484	20,967	27,685	35,573	44,424	54,001	6.76	6.25	5.72	5.14	4.54	3.98	5.39					
<b>Total</b>	<b>24,016</b>	<b>32,142</b>	<b>42,260</b>	<b>54,343</b>	<b>68,402</b>	<b>84,041</b>	<b>100,743</b>	<b>6.00</b>	<b>5.63</b>	<b>5.16</b>	<b>4.71</b>	<b>4.20</b>	<b>3.69</b>	<b>4.90</b>					

**Table-MA13 PROJECTED SOCIO-ECONOMIC DATA BY ADMINISTRATIVE REGION : ADMINISTRATIVE REGION XI (SOUTHERN MINDANAO)**

**(1) Projected Population for Administrative Region XI (Southern Mindanao)**

(Unit 1,000 persons)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)							
								1995/2000	2000/2005	2005/2010	2010/2015	2015/2020	2020/2025	1995/2000	2000/2005
Davao	1,558	1,566	1,675	1,781	1,977	2,166	2,350	0.10	1.35	1.24	2.11	1.84	1.65	1.38	
Davao del Sur	1,684	1,767	1,969	2,163	2,299	2,410	2,498	0.96	2.20	1.90	1.23	0.94	0.72	1.32	
Davao Oriental	413	461	510	553	578	595	606	2.20	2.06	1.65	0.87	0.59	0.36	1.29	
So. Cotabato	948	1,418	1,697	1,981	2,218	2,448	2,671	8.39	3.66	3.14	2.29	1.99	1.76	3.51	
Total	4,603	5,211	5,851	6,478	7,072	7,619	8,125	2.51	2.34	2.06	1.77	1.50	1.29	1.91	

**(2) Projected Employment for Administrative Region XI (Southern Mindanao)**

(Unit 1,000 Persons)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)							
								1995/2000	2000/2005	2005/2010	2010/2015	2015/2020	2020/2025	1995/2000	2000/2005
Davao	451	509	578	657	731	800	862	2.48	2.56	2.62	2.15	1.82	1.50	2.18	
Davao del Sur	780	957	1,133	1,307	1,481	1,647	1,796	4.18	3.44	2.90	2.53	2.14	1.75	2.82	
Davao Oriental	151	180	210	240	270	298	324	3.51	3.15	2.77	2.37	2.01	1.65	2.57	
So. Cotabato	403	488	573	660	747	829	903	3.89	3.27	2.87	2.49	2.11	1.73	2.72	
Total	1,784	2,134	2,494	2,865	3,229	3,574	3,884	3.64	3.17	2.81	2.42	2.05	1.68	2.63	

**(3) Projected GRDP for Administrative Region XI (Southern Mindanao) in High Economic Growth Scenario (at 1985 Constant Price)**

(Unit Milli. Pesos)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)							
								1995/2000	2000/2005	2005/2010	2010/2015	2015/2020	2020/2025	1995/2000	2000/2005
Davao	9,922	12,272	15,935	20,903	27,778	37,732	52,587	4.34	5.36	5.58	5.85	6.32	6.86	5.72	
Davao del Sur	19,622	26,681	37,145	51,895	72,588	102,897	148,822	6.34	6.84	6.92	6.94	7.23	7.66	6.99	
Davao Oriental	5,833	7,161	9,249	12,072	15,968	21,547	29,801	4.19	5.25	5.47	5.75	6.18	6.70	5.59	
So. Cotabato	12,069	15,569	20,883	28,237	38,489	53,422	75,886	5.22	6.05	6.22	6.39	6.78	7.27	6.32	
Total	47,446	61,682	83,212	113,106	154,823	215,598	307,096	5.39	6.17	6.33	6.48	6.85	7.33	6.42	

**(4) Projected GRDP for Administrative Region XI (Southern Mindanao) in Low Economic Growth Scenario (at 1985 Constant Prices)**

(Unit Milli. Pesos)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)							
								1995/2000	2000/2005	2005/2010	2010/2015	2015/2020	2020/2025	1995/2000	2000/2005
Davao	9,922	11,790	14,200	16,877	19,826	22,999	26,246	3.51	3.79	3.52	3.27	3.01	2.68	3.30	
Davao del Sur	19,622	25,647	33,084	41,740	51,401	61,907	72,887	5.50	5.22	4.76	4.25	3.79	3.32	4.47	
Davao Oriental	5,833	6,880	8,249	9,773	11,455	13,248	15,077	3.36	3.70	3.45	3.23	2.95	2.62	3.22	
So. Cotabato	12,069	14,961	18,604	22,757	27,366	32,353	37,517	4.39	4.46	4.11	3.76	3.40	3.01	3.85	
Total	47,446	59,278	74,138	91,147	110,049	130,506	151,726	4.55	4.58	4.22	3.84	3.47	3.06	3.95	

**Table-MA14 PROJECTED SOCIO-ECONOMIC DATA BY ADMINISTRATIVE REGION : ADMINISTRATIVE REGION XII (CENTRAL MINDANAO)**

**(1) Projected Population for Administrative Region XII (Central Mindanao)**

(Unit: 1,000 persons)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)							
								1995/2000	2000/2005	2005/2010	2010/2015	2015/2020	2020/2025	1995/2005	2005/2015
Lanao del Norte	714	798	890	976	1,053	1,119	1,175	2.26	2.19	1.87	1.52	1.22	0.98	1.67	
Cotabato	863	1,004	1,126	1,243	1,347	1,439	1,520	3.08	2.32	1.99	1.62	1.33	1.11	1.91	
Sultan Kudarat	522	573	644	712	775	830	877	1.88	2.36	2.03	1.71	1.38	1.12	1.75	
Catabao City	147	166	183	196	207	217	227	2.51	1.89	1.42	1.07	0.95	0.89	1.45	
Marawi City	114	118	129	140	147	155	162	0.72	1.84	1.54	1.10	0.97	0.91	1.18	
<b>Total</b>	<b>2,360</b>	<b>2,660</b>	<b>2,972</b>	<b>3,267</b>	<b>3,529</b>	<b>3,759</b>	<b>3,961</b>	<b>2.42</b>	<b>2.24</b>	<b>1.91</b>	<b>1.55</b>	<b>1.27</b>	<b>1.05</b>	<b>1.74</b>	

**(2) Projected Employment for Administrative Region XII (Central Mindanao)**

(Unit: 1,000 Persons)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)							
								1995/2000	2000/2005	2005/2010	2010/2015	2015/2020	2020/2025	1995/2005	2005/2015
Lanao del Norte	302	322	347	375	397	416	431	1.29	1.51	1.57	1.15	0.94	0.73	1.20	
Cotabato	313	330	354	384	407	427	443	1.03	1.43	1.65	1.17	0.95	0.74	1.16	
Sultan Kudarat	193	204	219	238	252	264	274	1.08	1.46	1.64	1.17	0.95	0.74	1.17	
Catabao City	81	87	94	101	106	111	115	1.46	1.46	1.43	1.09	0.89	0.70	1.17	
Marawi City	56	61	66	71	75	79	82	1.57	1.61	1.51	1.14	0.94	0.73	1.25	
<b>Total</b>	<b>946</b>	<b>1,004</b>	<b>1,080</b>	<b>1,169</b>	<b>1,238</b>	<b>1,297</b>	<b>1,345</b>	<b>1.19</b>	<b>1.48</b>	<b>1.59</b>	<b>1.15</b>	<b>0.94</b>	<b>0.73</b>	<b>1.18</b>	

**(3) Projected GRDP for Administrative Region XII (Central Mindanao)  
in High Economic Growth Scenario (at 1985 Constant Price)**

(Unit: Milli. Pesos)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)							
								1995/2000	2000/2005	2005/2010	2010/2015	2015/2020	2020/2025	1995/2005	2005/2015
Lanao del Norte	6,791	9,234	12,341	16,541	22,163	29,919	40,994	6.34	5.97	6.03	6.03	6.19	6.50	6.18	
Cotabato	7,272	9,220	11,714	14,997	19,346	25,301	33,700	4.86	4.91	5.06	5.22	5.51	5.90	5.24	
Sultan Kudarat	5,011	6,350	8,064	10,319	13,310	17,397	23,158	4.85	4.89	5.06	5.22	5.50	5.89	5.23	
Catabao City	1,660	2,355	3,239	4,443	6,057	8,305	11,535	7.24	6.58	6.53	6.40	6.52	6.79	6.67	
Marawi City	1,317	1,902	2,642	3,659	5,028	6,921	9,642	7.63	6.80	6.73	6.56	6.60	6.85	6.86	
<b>Total</b>	<b>22,052</b>	<b>29,061</b>	<b>38,000</b>	<b>49,959</b>	<b>65,903</b>	<b>87,843</b>	<b>119,029</b>	<b>5.68</b>	<b>5.51</b>	<b>5.62</b>	<b>5.70</b>	<b>5.92</b>	<b>6.26</b>	<b>5.78</b>	

**(4) Projected GRDP for Administrative Region XII (Central Mindanao)  
in Low Economic Growth Scenario (at 1985 Constant Prices)**

(Unit: Milli. Pesos)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)							
								1995/2000	2000/2005	2005/2010	2010/2015	2015/2020	2020/2025	1995/2005	2005/2015
Lanao del Norte	6,791	8,897	11,115	13,640	16,388	19,258	22,176	5.55	4.55	4.18	3.74	3.28	2.86	4.02	
Cotabato	7,272	8,872	10,534	12,373	14,356	16,416	18,480	4.06	3.49	3.27	3.02	2.72	2.40	3.16	
Sultan Kudarat	5,011	6,111	7,252	8,517	9,883	11,299	12,720	4.05	3.48	3.27	3.02	2.71	2.40	3.15	
Catabao City	8,988	9,995	10,985	11,984	13,036	14,086	15,085	2.15	1.91	1.76	1.70	1.56	1.38	1.74	
Marawi City	1,317	1,834	2,383	3,017	3,711	4,437	5,181	6.85	5.37	4.83	4.23	3.64	3.15	4.67	
<b>Total</b>	<b>29,380</b>	<b>35,709</b>	<b>42,269</b>	<b>49,530</b>	<b>57,373</b>	<b>65,497</b>	<b>73,642</b>	<b>3.98</b>	<b>3.43</b>	<b>3.22</b>	<b>2.93</b>	<b>2.68</b>	<b>2.37</b>	<b>3.11</b>	

**Table-MA15 PROJECTED SOCIO-ECONOMIC DATA BY ADMINISTRATIVE REGION : ARMM**

**(1) Projected Population for ARMM**

(Unit:1,000 persons)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)							
								1995/2000	2000/2005	2005/2010	2010/2015	2015/2020	2020/2025	1995/2005	2005/2010
Lanao del Sur	572	619	693	768	834	892	939	1.59	2.28	2.09	1.67	1.35	1.04	1.67	
Maguindanao	662	787	884	977	1,059	1,132	1,193	3.53	2.33	2.03	1.62	1.34	1.07	1.98	
Sulu	536	543	558	570	588	595	598	0.26	0.53	0.45	0.60	0.24	0.10	0.36	
Tawi-tawi	251	257	275	292	304	314	320	0.44	1.40	1.23	0.81	0.61	0.42	0.82	
<b>Total</b>	<b>2,021</b>	<b>2,206</b>	<b>2,409</b>	<b>2,608</b>	<b>2,785</b>	<b>2,932</b>	<b>3,051</b>	<b>1.77</b>	<b>1.78</b>	<b>1.60</b>	<b>1.32</b>	<b>1.03</b>	<b>0.80</b>	<b>1.38</b>	

**(2) Projected Employment for ARMM**

(Unit:1,000 Persons)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)							
								1995/2000	2000/2005	2005/2010	2010/2015	2015/2020	2020/2025	1995/2005	2005/2010
Lanao del Sur	196	199	207	222	232	240	245	0.31	0.84	1.35	0.88	0.68	0.47	0.75	
Maguindanao	195	197	206	222	233	242	248	0.20	0.89	1.49	0.96	0.73	0.50	0.80	
Sulu	164	165	172	185	194	201	206	0.19	0.85	1.45	0.94	0.71	0.49	0.77	
Tawi-tawi	88	90	93	100	104	108	110	0.33	0.84	1.33	0.87	0.67	0.46	0.75	
<b>Total</b>	<b>643</b>	<b>651</b>	<b>679</b>	<b>729</b>	<b>763</b>	<b>790</b>	<b>809</b>	<b>0.25</b>	<b>0.86</b>	<b>1.42</b>	<b>0.92</b>	<b>0.70</b>	<b>0.48</b>	<b>0.77</b>	

**(3) Projected GRDP for ARMM  
in High Economic Growth Scenario (at 1985 Constant Price)**

(Unit:Milli. Pesos)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)							
								1995/2000	2000/2005	2005/2010	2010/2015	2015/2020	2020/2025	1995/2005	2005/2010
Lanao del Sur	2,882	4,425	6,592	10,150	16,197	26,810	46,514	8.95	8.30	9.02	9.80	10.60	11.65	9.71	
Maguindanao	2,801	4,190	5,931	8,659	13,191	20,965	35,080	8.39	7.20	7.86	8.78	9.71	10.84	8.79	
Sulu	1,200	1,765	2,493	3,592	5,332	8,216	13,244	8.03	7.15	7.58	8.22	9.03	10.02	8.33	
Tawi-tawi	1,082	1,705	2,651	4,256	7,033	11,982	21,310	9.51	9.23	9.93	10.56	11.25	12.20	10.44	
<b>Total</b>	<b>7,965</b>	<b>12,084</b>	<b>17,667</b>	<b>26,658</b>	<b>41,752</b>	<b>67,973</b>	<b>116,147</b>	<b>8.69</b>	<b>7.89</b>	<b>8.58</b>	<b>9.39</b>	<b>10.24</b>	<b>11.31</b>	<b>9.34</b>	

**(4) Projected GRDP for ARMM  
in Low Economic Growth Scenario (at 1985 Constant Prices)**

(Unit:Milli. Pesos)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)							
								1995/2000	2000/2005	2005/2010	2010/2015	2015/2020	2020/2025	1995/2005	2005/2010
Lanao del Sur	2,882	4,224	5,700	7,604	10,067	13,038	16,485	7.95	6.18	5.93	5.77	5.31	4.80	5.99	
Maguindanao	2,801	4,007	5,157	6,554	8,328	10,413	12,762	7.43	5.18	4.91	4.91	4.57	4.15	5.19	
Sulu	1,200	1,691	2,180	2,756	3,455	4,262	5,148	7.10	5.21	4.80	4.62	4.29	3.85	4.97	
Tawi-tawi	1,082	1,625	2,281	3,160	4,314	5,727	7,393	8.47	7.02	6.74	6.42	5.83	5.24	6.61	
<b>Total</b>	<b>7,965</b>	<b>11,547</b>	<b>15,318</b>	<b>20,075</b>	<b>26,163</b>	<b>33,439</b>	<b>41,789</b>	<b>7.71</b>	<b>5.81</b>	<b>5.56</b>	<b>5.44</b>	<b>5.03</b>	<b>4.56</b>	<b>5.68</b>	

**Table-MA16 PROJECTED SOCIO-ECONOMIC DATA BY ADMINISTRATIVE REGION : CARAGA**

**(1) Projected Population for CARAGA**

(Unit: 1,000 persons)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)									
								1995/	2000/	2005/	2010/	2015/	2020/	1995/	2005/	2010/	2025/
								2000	2005	2010	2015	2020	2025	2000	2005	2010	2025
Agusan del Norte	514	568	623	672	715	749	776	2.03	1.85	1.54	1.22	0.94	0.72	1.38			
Agusan del Sur	515	609	733	876	1,041	1,221	1,416	3.42	3.76	3.63	3.53	3.24	3.00	3.43			
Surigao del Norte	442	502	540	572	594	607	615	2.59	1.45	1.17	0.73	0.46	0.24	1.10			
Surigao del Sur	471	539	605	669	716	755	787	2.73	2.34	2.02	1.37	1.07	0.84	1.73			
<b>Total</b>	<b>1,942</b>	<b>2,219</b>	<b>2,501</b>	<b>2,789</b>	<b>3,065</b>	<b>3,333</b>	<b>3,594</b>	<b>2.70</b>	<b>2.43</b>	<b>2.21</b>	<b>1.91</b>	<b>1.69</b>	<b>1.52</b>	<b>2.07</b>			

**(2) Projected Employment for CARAGA**

(Unit: 1,000 Persons)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)									
								1995/	2000/	2005/	2010/	2015/	2020/	1995/	2005/	2010/	2025/
								2000	2005	2010	2015	2020	2025	2000	2005	2010	2025
Agusan del Norte	241	263	286	312	334	355	372	1.76	1.66	1.75	1.42	1.19	0.97	1.46			
Agusan del Sur	159	168	181	200	215	229	240	1.08	1.53	1.94	1.47	1.24	1.01	1.38			
Surigao del Norte	209	228	243	271	291	309	325	1.78	1.66	1.79	1.45	1.22	0.99	1.48			
Surigao del Sur	204	247	291	335	379	421	459	3.96	3.32	2.87	2.49	2.11	1.73	2.74			
<b>Total</b>	<b>813</b>	<b>907</b>	<b>1,006</b>	<b>1,118</b>	<b>1,220</b>	<b>1,314</b>	<b>1,396</b>	<b>2.21</b>	<b>2.10</b>	<b>2.12</b>	<b>1.76</b>	<b>1.50</b>	<b>1.23</b>	<b>1.82</b>			

**(3) Projected GRDP for CARAGA  
in High Economic Growth Scenario (at 1985 Constant Price)**

(Unit: Milli. Pesos)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)									
								1995/	2000/	2005/	2010/	2015/	2020/	1995/	2005/	2010/	2025/
								2000	2005	2010	2015	2020	2025	2000	2005	2010	2025
Agusan del Norte	6,103	8,781	12,898	19,072	28,308	42,543	65,374	7.55	7.99	8.14	8.22	8.49	8.97	8.23			
Agusan del Sur	6,322	7,921	10,231	13,304	17,672	24,061	33,658	4.61	5.25	5.39	5.84	6.37	6.94	5.73			
Surigao del Norte	5,318	7,511	10,844	15,775	23,087	34,308	52,188	7.15	7.62	7.78	7.91	8.24	8.75	7.91			
Surigao del Sur	6,754	8,611	11,451	15,362	20,804	28,701	40,538	4.98	5.87	6.05	6.25	6.65	7.15	6.16			
<b>Total</b>	<b>24,497</b>	<b>32,824</b>	<b>45,423</b>	<b>63,513</b>	<b>89,870</b>	<b>129,612</b>	<b>191,758</b>	<b>6.03</b>	<b>6.71</b>	<b>6.93</b>	<b>7.19</b>	<b>7.60</b>	<b>8.15</b>	<b>7.10</b>			

**(4) Projected GRDP for CARAGA  
in Low Economic Growth Scenario (at 1985 Constant Prices)**

(Unit: Milli. Pesos)

Province	1995	2000	2005	2010	2015	2020	2025	Average Annual Growth Rate (%)									
								1995/	2000/	2005/	2010/	2015/	2020/	1995/	2005/	2010/	2025/
								2000	2005	2010	2015	2020	2025	2000	2005	2010	2025
Agusan del Norte	6,103	8,409	11,341	14,930	19,153	23,883	28,996	6.62	6.16	5.65	5.11	4.51	3.96	5.33			
Agusan del Sur	6,322	7,602	9,051	10,535	12,181	13,885	15,521	3.76	3.55	3.08	2.95	2.65	2.25	3.04			
Surigao del Norte	5,318	7,197	9,549	12,380	15,681	19,364	23,315	6.24	5.82	5.33	4.84	4.31	3.78	5.05			
Surigao del Sur	6,754	8,275	10,205	12,395	14,823	17,442	20,147	4.15	4.28	3.97	3.64	3.31	2.93	3.71			
<b>Total</b>	<b>24,497</b>	<b>31,433</b>	<b>40,145</b>	<b>50,240</b>	<b>61,838</b>	<b>74,575</b>	<b>87,979</b>	<b>5.15</b>	<b>4.93</b>	<b>4.59</b>	<b>4.24</b>	<b>3.82</b>	<b>3.36</b>	<b>4.35</b>			











