Chapter 4

Ecosystem

CHAPTER 4 ECOSYSTEMS

4.1 Introduction

4.1.1 Objectives

The objective of this study is to collect data related to the ecosystems in the study area. A general preliminary list of fauna/flora will be elaborated to be completed in the future by collaboration of all persons interested in elevating the knowledge level of the total fauna/flora of the study area. This chapter will contribute as the basic data for the wetland conservation programs and other sections.

Field bird study of this chapter was conduced by the cooperation of Mr. Giovanni N. Mauricio, and **Tables 4.3-2** and **4.3-3** were prepared by him.

4.1.2 Collected Data

The data collected or that will be collected in the second phase are as follow:

- List of fauna and flora in the study area
- Bird aerial census
- Bio-accumulation of agro-chemicals in aquatic organisms
- Laws and regulations relevant to ecosystem conservation
- Related organizations

4.2 Target Areas for Ecosystem Study

In selecting target areas for ecosystem study, following information was used as a preliminary classification. The Mata Atlântica Biosphere Reserve area includes most of the areas that must be considered to be zones/areas restricted for development. The distribution of important area of the above is presented in **Fig. 4.2-1**.

The environmental risk potential (**Fig. 4.2-2**), critical level of the environment (**Fig. 4.2-3**) and the federal and state conservation units (**Fig. 4.2-4**) were also considered for

site selection. Levels of human economic activities, risk of land use conversion, fragility of ecosystems such as those of sand dunes and unstable shallow lakes are among environmental risks.







