

## Studi keanekaragaman hayati pada ruang terbuka hijau kawasan resapan air Jagakarsa

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### Abstrak

Jagakarsa is one of "the water catchment areas" in Jakarta that has green open space. The elements and design of the green open space are very important to be studied, in relation to the occurrence of the wild animal particularly birds in this area. The title of this study is "A study on biodiversity of green open space in Jagakarsa water catchment area". The report was divided into two sub titles: "Vegetation structure and composition at the green open space of water catchment area in Jagakarsa", and "Bird inventory at the green open space of water catchment area in Jagakarsa". The objectives of this study are to examine the structure and composition of the vegetation related to the occurrence of birds in the green open space.

The study was conducted from July to December 1999 by compiling both primary and secondary data. The study area was divided into four categories; home garden, green belt along the river, cemetery area (modern and traditional), and urban forests.

The highest diversity of vegetation was found in home garden, which was consisted of fruits, and plants used as house fence. Over half of plant in

species at home garden are ornamental plant. Beside that, heterogeneity plants at home garden showed higher than the other green open space in Jagakarsa, Also, home garden was managed better than the other green open space in Jagakarsa.

Generally, people around the river use green belt along the river as fruit garden. Plant species diversity in those belt are lower than home garden and less managed by people. However, at the green belt along Krukut river was found the regenerated of plants. The vegetation neither ornamental nor valuable cemetery plants with urban cemetery concept was dominated by ornamental plants with high esthetical value, which has maximum height less than one meter. In the traditional cemetery, *Ptumeria alba*, *Codeaeum variegatum*, *Dracaena fragrans* were found dominantly planted with irregularity in patterns.

There were 28 species of 18 families of birds found in this study. The highest number of species { 15 species) was found at the green belt along Ciliwung River, and surrounding of Situ Babakan (14 species). Water birds were found at Ciliwung River, Kali Krukut, and Situ Babakan. Birds that living in high grasses and shrubs also found at these areas. Most of the birds found in the area are insectivore (42,86%).

Vegetation is very important for bird, not only as food resources but also as a resting, sleeping, and nesting place. Fruits and flowers as food resources of insect related to the occurrence of birds were discussed in this paper.

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Habitat degradation and bird hunting are threats for the birds. Therefore, community awareness, selection of plant species, and design of vegetation pattern that fulfil the needs of bird are very important for bird

conservation in urban city.