Sampling Exercise

Variation And Composition of Trees and Undergrowth In the Primary and Riverine Forest of the Proposed Wanang Conservation Area.

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Outline

• Introduction

• Objective

• Study Area (Sampling Exercise)

• Methodology

• Results & Discussion

• Conclusion
“Hypothesis”

Slope types do not affect plant species distribution

But

Varies between primary forest and flood plain
Introduction

- Plant species composition and density on 3 main forest categories relating to slope types

  Slope range 0° - 30°

  i. PF (0° to 12°) – Primary Flat
  ii. PS (21° to 30°) – Primary Slope
  iii. FP (0° to 5°- undergrowth disturbance) - Floodplain

- Plant Species
  i. Trees (>1cm)
  ii. Lianas
  iii. Herbs
  iv. Tree Seedlings
Methodology

• Sampling of 15 forest plots
  - 3 main categories (PF, PS & FP)
  - DBH > 1cm (dbh tape)
  - Species Identification of tree and undergrowth (datasheet)

• Data Entry
  - Excel spreadsheet

• Data Analysis
  - Statistica & Cannco/ Cannodro
Total of 1695 tree individuals identified
Results & Discussions

Forest Types Vs Number of Species

- Forest Types: PF, PS, F
- Species types: Herbs, Lianas, Trees

The graph shows the comparison of different forest types (PF, PS, F) with the number of species for Herbs, Lianas, and Trees. The data indicates a decrease in the number of species as we move from PF to PS to F, with Trees showing the most significant decrease.
Results & Discussions

Forest Types Vs Lianas and Herbs

Forest Types vs all species
Trees in the primary forests

Coperation number of species on slope

Regression Non significant
Conclusion

From the findings of our mini botany project, it is concluded that:

• slopes in the study area do not affect plant species composition and richness within the primary forest
• the floodplain differs from the primary forests in its species composition, and has lower number of species (of all, trees, herbs, and lianas)

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