

Title: Ecology of Mikado Pheasants in Contrasting Habitats

I. Introduction

- A. Review of mikado pheasant
 - 1. Historical conservation status
 - 2. Historical and current threats
- B. Goals of thesis
 - 1. Habitat requirements
 - 2. Population estimate
 - 3. Population trends
 - 4. Conservation status

II. Microhabitat selection

A. Introduction

- 1. Habitat selection.
- 2. Mikado habitat
 - a. Primary forests
 - b. Secondary forests
- 3. Mikado activity within the study area
- 4. Objectives and hypotheses
 - a. Are areas of pheasant activity different from random locations?
 - H1: There is microhabitat selection by mikado pheasants
 - H0: There is no indication of microhabitat selection.
 - b. Are areas of use more representative of a particular habitat?
 - H2a: If microhabitat selection, factors will be more like the primary habitat.
 - H2b: if microhabitat selection, factors will be more like the secondary habitat.
 - H0: if microhabitat selection, factors will not resemble any habitat.

B. Study site description

- 1. Taiwan's high elevations
- 2. Locations of study sites

C. Methods

- 1. Pheasant hot spots and cold spots
- 2. Plot locations
- 3. Scales of measurement
- 4. Variables, and methods for each
- 5. Temperature
- 6. Automatic camera
- 7. Data analysis
 - a. Test for effects of habitat, trail, & pheasant activity: MANOVA
 - b. Test each variable for differences between habitat, trail & pheasant activity: t-test

D. Results

- 1. Secondary habitat
- 2. Primary habitat
- 3. Temperature monitoring plots
- 4. Automatic camera plots

E. Discussion

- 1. Selected variables
- 2. Variables similar to primary or secondary habitat.
- 3. Variables are for entire year, not seasons
- 4. Automatic camera data
- 5. Habitats appear uniform, but selection occurs
- 6. Plot selection depended on encounters with feeding pheasants