

**OKUPANSI KIJANG (*Muntiacus muntjak*)
DI HUTAN PETUNGKRIYONO, PEKALONGAN, JAWA TENGAH**

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Intisari

Keberadaan kijang (*Muntiacus muntjak*) di hutan produksi terbatas (HPT) Petungkriyono semakin terancam karena meningkatnya perburuan dan pemasangan jerat. Perburuan dan pemasangan jerat dilatar belakangi oleh persepsi masyarakat. Penelitian ini bertujuan untuk menaksir proporsi okupansi dan menentukan kovariat lingkungan yang berpengaruh terhadap okupansi kijang (*Muntiacus muntjak*) di hutan produksi terbatas (HPT) tersebut.

Pengumpulan data keberadaan kijang (*Muntiacus muntjak*) menggunakan metode kamera jebak yang ditempatkan di 60 *grid sampling*. Data kovariat dikumpulkan di *grid sampling* tersebut dengan metode *protocol sampling*. Penaksiran *proportion of area occupied* (PAO) dihitung menggunakan rumus *naive occupancy* dan faktor habitat yang berpengaruh dilakukan dengan *occupancy modelling* menggunakan *software PRESENCE ver. 10.7*.

Penelitian ini mendeteksi keberadaan kijang (*Muntiacus muntjak*) di 11 *grid sampling* dari 60 *grid sampling* dengan nilai *proportion of area occupied* (PAO) sebesar 0,18 atau 18%. Hasil yang diperoleh dari *occupancy modelling* dengan *software PRESENCE ver. 10.7* antara lain *LS* (*low shrub*) (β *co-efficients*= 1,49 \pm 1,51_{SE}), *HG* (*high ground*) (β *co-efficients*= 1,94 \pm 1,72_{SE}), *HS* (*high shrub*) (β *co-efficients*= 0,17 \pm 1,58_{SE}), *LG* (*low ground*) (β *co-efficients*= -1,78 \pm 2,14_{SE}), Elevasi (β *co-efficients*= 0,87 \pm 2,51_{SE}), *Slope* (β *co-efficients*= -0,34 \pm 0,73_{SE}), Dusun (β *co-efficients*= 0,02 \pm 0,54_{SE}), dan Air (β *co-efficients*= 0,12 \pm 0,57_{SE}). Kovariat *LS* (*low shrub*) mendapat dukungan tertinggi untuk menjadi model terbaik. Berdasarkan nilai β *co-efficients*, kovariat *LS* (*low shrub*) berpengaruh positif terhadap keberadaan kijang (*Muntiacus muntjak*) di hutan produksi terbatas (HPT) Petungkriyono.

Kata kunci: Kijang, *Muntiacus muntjak*, okupansi, kovariat, Petungkriyono.

OCCUPANCY OF MUNTJAC (*Muntiacus muntjak*) IN PETUNGKRIYONO FOREST, PEKALONGAN, CENTRAL JAVA

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Abstract

The presence of muntjac (*Muntiacus muntjak*) in the limited production forest (HPT) of Petungkriyono was increasingly threatened due to the increasing hunting and trapping. The increasing hunting and trapping were caused by the perception of people. This study aimed to assess the proportion of occupancy and to determine the environmental covariates which affected the occupancy of muntjac (*Muntiacus muntjak*) in the aforementioned limited production forest.

Data collection of the presence of muntjac (*Muntiacus muntjak*) was done by using camera traps which were placed in 60 grid sampling. Covariate data was collected in the grid sampling with the use of protocol sampling method. The estimation of Proportion of Area Occupied (PAO) was calculated using naive occupancy function and the habitat factors which affected were conducted with occupancy modelling using PRESENCE software ver. 10.7.

This study detected the presence of muntjac (*Muntiacus muntjak*) in 11 of 60 grid sampling with the value of Proportion of Area Occupied (PAO) of 0.18 or 18%. The results attained from occupancy modelling with PRESENCE software ver. 10.7 were LS (low shrub) (β co-efficients= $1,49 \pm 1,51_{SE}$), HG (high ground) (β co-efficients= $1,94 \pm 1,72_{SE}$), HS (high shrub) (β co-efficients= $0,17 \pm 1,58_{SE}$), LG (low ground) (β co-efficients= $-1,78 \pm 2,14_{SE}$), Elevation (β co-efficients= $0,87 \pm 2,51_{SE}$), Slope (β co-efficients= $-0,34 \pm 0,73_{SE}$), Village (β co-efficients= $0,02 \pm 0,54_{SE}$), and Water (β co-efficients= $0,12 \pm 0,57_{SE}$). Covariate LS (low shrub) obtained the highest support to be the best model. Based on the value of β co-efficients, covariate LS (low shrub) positively affected the presence of muntjak (*Muntiacus muntjak*) in the limited production forest (HPT) of Petungkriyono.

Keywords: Muntjac, *Muntiacus muntjak*, occupancy, covariates, Petungkriyono.