

**DENSITY AND HOME RANGE OF JAVAN GIBBON  
(*Hylobates moloch* Audebert 1797) IN CURUG CIPENDOK AREA,  
DISTRICT OF BANYUMAS, CENTRAL JAVA**

by  
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**Abstract**

Javan gibbon (*Hylobates moloch*) is one of Java Island's endemic species that considered as the most endangered primate species in Indonesia. Illegal hunting pressure and loss habitat become the most serious threat. The decrease of forest area as the nature habitat caused the more pressure to the population in present. The occurrences of the gibbon's population and home range in Slamet mountain especially Curug Cipendok area, Central Java, have been known yet. So, that find difficulties in management its geniuses habitat.

The aimed of this study were to estimated the density and home range of javan gibbon in Curug Cipendok area. The study used range mapping and concentration count method that relied on groups distribution in the area. Javan gibbon's home range was estimated by following the daily movement of each groups. And then, mapping the home range by using Arc View GIS 3.2 program.

Based on the result of this study, the population of javan gibbon in Curug Cipendok area was estimated  $10,4 \pm 0,68$  individual for range mapping and 11 individual in 4 groups for concentration count. The average home range of this species was estimated 17,055 Ha in the area of 236,96 Ha. The density by using range mapping was  $4,4 \pm 0,03$  individual  $\text{km}^{-2}$  and 16,1 individual  $\text{km}^{-2}$  or 5,9 groups  $\text{km}^{-2}$  for concentration count. The javan gibbon habitat in Curug Cipendok area consisted of 2 type: primary and secondary forest. The both habitat were supporting the life of this species because from study known almost 40% of these habitat component were the food tree. This tree species are: *Ficus variegata*, *Horsfieldia irya*, *Sterculia* sp., *Ficus spec*, *Artocarpus elastica*, and *Litsea* sp.

**Keywords:** *Javan gibbon, population, home range, density, and habitat*

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