

## **ABSTRACT**

### **POPULATION STRUCTURE, REPRODUCTIVE PERFORMANCE, AND DAIRY GOAT PRODUCTION IN PESAWARAN AND EAST LAMPUNG DISTRICT, LAMPUNG PROVINCE**

**By**

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This research aimed to determine the population structure, reproductive performance, and production of dairy goats in Pesawaran and East Lampung Regencies, Lampung Province. This research was carried out from January 2023 to April 2023 in Pesawaran and East Lampung Regencies, Lampung Province. This research used the case study method and to determine the research location was to use the survey method. The research sample was determined by snowball sampling. The observed variables were the population of male and female kids, male and female young goat, and male and female adult goat. Pregnancy rate, litter size, postpartum and pre-weaning mortality, and milk production of dairy goats were also evaluated. The data was analysed descriptively. The results of the research in Pesawaran District showed that the population structure of male lamb was 0.00%, female lamb 100.00%, male young goat 0.00%, female young goat 100.00%, male adult goat 0.00% and female adult goat 100.00%. The result also showed that pregnancy rate, litter size, postpartum mortality, pre-weaning mortality, and service per conception were 100.00%, 2.00, 14.29%, 7.14%, and 1, respectively, and milk production of Ettawa Grade goat and Jawarandu goat were 0.97 liters/day/head and 0.530 liters/day/head, respectively. Meanwhile, East Lampung Regency has a population structure namely male lamb 66.67%, female lamb 33.33%, male young goat 20.00%, female young goat 80.00%, male adult goat 12.70% and female adult goat 87.30%. Pregnancy rate, litter size, postpartum mortality, pre-weaning mortality, and service per conception were 83.72%, 1.77%, 3.26%, 39.13%, and 1.14, respectively, and milk production of Sapera goat, Saanen goat, Anglo Nubian goat, Alpine goat, and Ettawa Grade goat were 1.23 liters/head/day, 2.00 liters/head/day, 1.19 liters/head/day, 1.00 liters/head/day, dan 0.58 liters/head/day, respectively.

**Keyword:** Dairy Goats, Reproductive Performance, Production, Population Structure

## ABSTRAK

### STRUKTUR POPULASI, PERFORMA REPRODUKSI, DAN PRODUKSI KAMBING PERAH DI KABUPATEN PESAWARAN DAN LAMPUNG TIMUR PROVINSI LAMPUNG

Oleh

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Penelitian ini bertujuan untuk mengetahui struktur populasi, performa reproduksi, dan produksi kambing perah di Kabupaten Pesawaran dan Lampung Timur, Provinsi Lampung. Penelitian ini dilaksanakan pada Januari sampai April 2023 di Kabupaten Pesawaran dan Lampung Timur, Provinsi Lampung. Penelitian survei ini menggunakan metode studi kasus. Sampel penelitian ditentukan secara snowball sampling. Peubah yang diamati yaitu populasi cempes jantan dan betina, kambing muda jantan dan betina, dan kambing dewasa jantan dan betina. Selain itu, angka kebuntingan, litter size, mortalitas pasca partus dan pra sapih, dan produksi susu kambing perah juga diamati. Analisis data dilakukan secara deskriptif. Hasil penelitian di Kabupaten Pesawaran menunjukkan bahwa struktur populasi kambing perah yaitu cempes jantan 0,00%, cempes betina 100,00%, kambing jantan muda 0,00%, kambing betina muda 100,00%, kambing dewasa jantan 0,00% dan kambing dewasa betina 100,00%. Hasil penelitian juga menunjukkan bahwa angka kebuntingan, litter size, mortalitas pasca partus, mortalitas pra sapih, dan service per conception berturut-turut yaitu 100,00%, 2,00, 14,29%, 7,14%, dan 1, dan produksi susu kambing PE dan Jawarandu berturut-turut yaitu 0.97 liter/ekor/hari dan 0,530 liter/ekor/hari. Sedangkan, struktur populasi kambing perah di Kabupaten Lampung Timur yaitu cempes jantan 66,67%, cempes betina 33,33%, kambing jantan muda 20,00%, kambing betina muda 80,00%, kambing dewasa jantan 12,70%, dan kambing dewasa betina 87,30%. Angka kebuntingan, litter size, mortalitas pasca partus, mortalitas pra sapih, dan service per conception berturut-turut yaitu 83,72%, 1,77, 3,26%, 39,13%, dan 1,14, dan produksi susu kambing Sapera, kambing Saanen, Anglo Nubian, Alpine, dan PE berturut-turut yaitu 1,23 liter/ekor/hari, 2,00 liter/ekor/hari, 1,19 liter/ekor/hari, 1,00 liter/ekor/hari, dan 0,58 liter/ekor/hari.

**Kata kunci :** Kambing Perah, Performa Reproduksi, Produksi, Struktur Populasi