

## **Pengaruh Paritas Terhadap Lama *Days Open* Dan Biaya Produksi Sapi Peranakan Friesian Holstein (PFH)**

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### **INTISARI**

Penelitian ini bertujuan untuk mengetahui pengaruh perbedaan paritas sapi Peranakan Friesian Holstein terhadap lama *Days Open* dan biaya produksi selama masa tersebut. Penelitian ini berlokasi di Unit Pelaksana Teknis Dinas Balai Pengembangan Perbibitan Ternak dan Diagnostik Kehewan (UPTD BPPTDK) Unit Sapi Perah yang dilaksanakan dari tanggal 11 April hingga 31 Mei 2023. Desain penelitian yang digunakan adalah Rancangan Acak Lengkap (RAL). Penelitian ini menggunakan sampel 23 ekor sapi PFH berdasarkan paritasnya terdapat kelompok paritas 1 (5 ekor), paritas 2 (6 ekor), paritas 3 (6 ekor) dan paritas 4 (6 ekor). Alat yang digunakan antara lain alat tulis, laptop, kalkulator dan ponsel. Perhitungan lama *Days Open* dilakukan dengan melihat dokumen pencatatan ternak dan perhitungan dengan rumus yang melibatkan data siklus estrus, PPM dan S/C. Perhitungan biaya produksi dilakukan dengan melihat dokumen pencatatan biaya produksi dan dihitung untuk mengetahui total biaya produksi yang terpengaruh lama DO. Data paritas, lama DO dan biaya produksi akan dianalisis menggunakan *Analysis of Varians* (ANOVA). Hasil dari penelitian diperoleh data rerata lama *days open* yang sapi PFH dengan paritas 1 (236,20 +- 50,336 hari), paritas 2 (255,83 +- 49,082 hari), paritas 3 (136,83 +- 10,925 hari) dan paritas 4 (185,00 +- 34,918 hari). Rata-rata biaya produksi yang dikeluarkan selama *Days Open* sapi PFH dengan paritas 1 (Rp22.194.573,60 +- 4.691.758,832) paritas 2 (Rp24.081.153,50 +- 4.598.402,547), paritas 3 (Rp12.958.774,17 +- 1.024.613,793) dan paritas 4 (Rp17.440.253,17 +- 3.246.104,227). Berdasarkan hasil penelitian dapat disimpulkan bahwa paritas sapi PFH yang berbeda tidak berpengaruh signifikan ( $P > 0,05$ ) terhadap lama *Days Open* yang dialami ternak dan biaya produksi yang dikeluarkan selama *Days Open* di UPTD BPPTDK Unit Sapi Perah Daerah Istimewa Yogyakarta.

Kata kunci: Sapi Peranakan Friesian Holstein, paritas, *Days Open*, biaya produksi.

## **The Effect of Parity on the Length of Days Open and Production Costs of Friesian Holstein Crossbreed Cattle**

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### **ABSTRACT**

This research aims to determine the effect of differences in parity of Friesian Holstein crossbreed cattle on the length of Days Open and production costs during that period. This research was located at Unit Pelaksana Teknis Dinas Balai Pengembangan Perbibitan Ternak dan Diagnostik Kehewan (UPTD BPPTDK) Dairy Cattle Unit which was carried out from 11<sup>th</sup> April to 31<sup>st</sup> May 2023. The research design used was CRD (Completely Randomized Design). This research used a sample of 23 Friesian Holstein crossbreed cattle based on parity, namely parity 1 (5 cattle), parity 2 (6 cattle), parity 3 (6 cattle) and parity 4 (6 cattle). The tools used include stationery, laptops, calculators and mobile phone. Calculation of the duration of Open Days is done by looking at livestock registration documents and calculating using a formula involving estrous cycle, PPM and S/C data. Production cost calculations are carried out by looking at the production cost recording documents and calculated to find out the total production costs that are affected by the DO length. Parity data, DO length and production costs will be analyzed using Analysis of Variance (ANOVA). The results of the research obtained data on the average length of days open for PFH cattle with parity 1 (236,20 +- 50,336 days), parity 2 (255,83 +- 49,082 days), parity 3 (136,83 +- 10,925 days ) and parity 4 (185,00 +- 34,918 days). Average production costs incurred during Days Open for Friesian Holstein crossbreed cattle with parity 1 (Rp22.194.573,60 +- 4.691.758,832 IDR), parity 2 (24.081.153,50 +- 4.598.402,547 IDR), parity 3 (12.958.774,17 +- 1.024.613,793 IDR) and parity 4 (17.440.253,17 +- 3.246.104,227 IDR). Based on the research results, it can be concluded that different Friesian Holstein crossbreed cattle parities do not have a significant effect ( $P>0.05$ ) on the length of Days Open and production costs incurred during Days Open in UPTD BPPTDK Dairy Cattle Unit Special Region of Yogyakarta.

Key words: Friesian Holstein crossbreed cattle, parity, Days Open, production costs.