



## **KINERJA INDUK SAPI PO, SIMPO, DAN LIMPO DI KABUPATEN REMBANG, JAWA TENGAH**

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### **INTISARI**

Penelitian ini bertujuan untuk mengetahui kinerja induk sapi potong di Kabupaten Rembang, Jawa Tengah. Penelitian melibatkan 78 peternak dan 93 ekor induk sapi potong yang terdiri atas 34 induk sapi Peranakan Ongole (PO), 33 ekor induk sapi Simmental Peranakan Ongole (SimPO), dan 25 ekor induk sapi Limousin Peranakan Ongole (LimPO). Penelitian dilaksanakan dengan metode survei melalui wawancara dengan peternak dan pengamatan langsung di lapangan. Kinerja induk yang diamati meliputi umur pubertas, umur pertama kawin, *post partum estrus* (PPE), *post partum mating* (PPM), *service per conception* (S/C), lama kebuntingan, interval kelahiran, mortalitas prasapah, dan indeks reproduksi induk (IRI). Data yang terkumpul dianalisis menggunakan deskriptif kuantitatif dan perbedaan nilai antar bangsa dianalisis menggunakan *one way analysis of variance*. Apabila terdapat perbedaan analisis dilanjutkan dengan uji *Least Significance Different*. Hasil penelitian menunjukkan bahwa umur pubertas, umur pertama kawin, PPE, PPM, S/C, lama kebuntingan, interval kelahiran, mortalitas prasapah, dan indeks reproduksi induk sapi PO, SimPO, dan LimPO berturut-turut masing-masing adalah  $576,96 \pm 85,28$ ,  $578,52 \pm 111,40$ , dan  $581,58 \pm 100,65$  hari;  $577,32 \pm 84,96$ ,  $587,61 \pm 93,45$ , dan  $587,42 \pm 96,28$  hari;  $100,79 \pm 23,05$ ,  $107,48 \pm 14,52$ , dan  $104,19 \pm 20,84$  hari;  $137,24 \pm 18,36$ ,  $149,48 \pm 19,41$ , dan  $143,77 \pm 18,51$  hari;  $1,71 \pm 0,70$ ,  $2,00 \pm 0,94$ , dan  $1,88 \pm 0,71$  kali;  $283,00 \pm 17,28$ ,  $280,64 \pm 1,41$ , dan  $280,69 \pm 3,48$  hari;  $417,68 \pm 18,40$ ,  $430,12 \pm 19,35$ , dan  $424,46 \pm 17,90$  hari;  $4,41 \pm 10,90$ ,  $5,10 \pm 11,36$ , dan  $3,21 \pm 9,15\%$ , serta  $0,84 \pm 0,11$ ,  $0,81 \pm 0,11$ , dan  $0,83 \pm 0,10$  ekor/tahun. Induk sapi PO, SimPO, dan LimPO di Kabupaten Rembang mempunyai kinerja yang sama. Perbedaan bangsa sapi tidak mempengaruhi kinerja induk di Kabupaten ini. Kinerja induk sapi potong tergolong lebih rendah dari kisaran normal.

Kata kunci: Kinerja induk, sapi PO, SimPO, LimPO, Kabupaten Rembang



## **THE REPRODUCTIVE PERFORMANCE OF PO, SIMPO, AND LIMPO COWS AT REMBANG REGENCY, CENTRAL JAVA**

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### **ABSTRACT**

This study was aimed to observe the reproductive performance of cows in Rembang Regency, Central Java. This research involved 78 farmers and 93 cows that were consisted of 34 heads of Ongole Crossbreeds (PO), 33 heads of Simmental Ongole Crossbreeds (SimPO), and 25 heads of Limousin Ongole Crossbreeds (LimPO). The research was conducted using interview method and direct field observation. Data of reproductive performance included age of puberty, age of first mating, post partum estrus (PPE), post partum mating (PPM), service per conception (S/C), length of pregnancy, calving interval, weaning mortality, and cattle reproduction index. The data were analyzed using quantitative descriptive and one way analysis of variance was used to analyze the difference among breeds. If the result showed significant difference, then continued with *Least Significant Different* test. The results showed that the age of puberty, age of first mating, PPE, PPM, S/C, length of pregnancy, calving interval, weaning mortality, and cattle reproduction index of PO, SimPO, and LimPO cows were  $576,96 \pm 85,28$ ,  $578,52 \pm 111,40$ , and  $581,58 \pm 100,65$  days;  $577,32 \pm 84,96$ ,  $587,61 \pm 93,45$ , and  $587,42 \pm 96,28$  days;  $100,79 \pm 23,05$ ,  $107,48 \pm 14,52$ , and  $104,19 \pm 20,84$  days;  $137,24 \pm 18,36$ ,  $149,48 \pm 19,41$ , and  $143,77 \pm 18,51$  days;  $1,71 \pm 0,70$ ,  $2,00 \pm 0,94$ , and  $1,88 \pm 0,71$  times;  $283,00 \pm 17,28$ ,  $280,64 \pm 1,41$ , and  $280,69 \pm 3,48$  days;  $417,68 \pm 18,40$ ,  $430,12 \pm 19,35$ , and  $424,46 \pm 17,90$  days;  $4,41 \pm 10,90$ ,  $5,10 \pm 11,36$ , and  $3,21 \pm 9,15\%$ , as well as  $0,84 \pm 0,11$ ,  $0,81 \pm 0,11$ , and  $0,83 \pm 0,10$  head/cow/year, respectively. PO, SimPO, and LimPO cows in Rembang Regency has the same performance. Differences breeds of cows doesn't affect their reproductive performance in this Regency. The reproductive performance cows is lower than the normal range.

Keywords: Reproductive performance, PO, SimPO, LimPO cows, Rembang Regency