

**KINERJA PERTUMBUHAN HASIL PERSILANGAN SAPI BALI  
DENGAN PEJANTAN EKSTOTIK BERDASARKAN  
DATA VITAL STATISTIK**

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**INTISARI**

Kinerja pertumbuhan persilangan induk sapi Bali tergantung dengan bangsa pejantannya. Penelitian ini bertujuan untuk mengidentifikasi data vital statistik persilangan induk sapi Bali dengan pejantan eksotik di daerah Nusa Tenggara Barat, Kabupaten Lombok Timur. Penelitian dilakukan dengan metode survei dan wawancara dengan peternak serta inseminator. Data yang diambil yaitu data vital statistik dengan pengukuran langsung ke ternak meliputi panjang badan, lingkaran dada, dan tinggi gumba. Materi yang digunakan dalam penelitian adalah 43 ekor hasil persilangan induk sapi Bali dengan pejantan eksotik. Data dikelompokkan pada 3 kategori umur yaitu <1 tahun, 1-2,5 tahun, dan >2,5 tahun. Analisis data dilakukan secara deskriptif berupa persentase, rata-rata, dan standar deviasi berdasarkan kelompok umur dan bangsa. Hasil penelitian menunjukkan panjang badan, lingkaran dada, dan tinggi gumba pada sapi SimmentalxBali dan sapi LimousinxBali. Pada umur <1 tahun ukuran tubuh sapi SimmentalxBali secara berurutan  $100,75 \pm 6,85$  cm;  $138,50 \pm 5,92$  cm; dan  $106,00 \pm 5,29$  cm; sedangkan sapi LimousinxBali berukuran  $109,00 \pm 13,08$  cm;  $137,00 \pm 7,00$  cm; dan  $114,00 \pm 8,89$  cm. Ukuran tubuh pada umur 1-2,5 tahun SimmentalxBali secara berurutan  $113,72 \pm 10,46$  cm;  $157,06 \pm 16,69$  cm; dan  $114,28 \pm 7,85$  cm; sedangkan sapi LimousinxBali berukuran  $123,67 \pm 17,95$  cm;  $157,00 \pm 7,81$  cm; dan  $116,33 \pm 5,03$  cm. Ukuran tubuh sapi SimmentalxBali pada umur >2,5 tahun secara berurutan  $122,67 \pm 8,12$  cm;  $168,83 \pm 8,68$  cm;  $122,83 \pm 3,56$  cm; dan  $122,25 \pm 3,33$  cm; sedangkan sapi LimousinxBali berukuran  $129,67 \pm 4,51$  cm;  $164,00 \pm 9,00$  cm; dan  $123,67 \pm 9,61$  cm. Pertumbuhan sapi SimmentalxBali dan LimousinxBali mengalami peningkatan yang seiring bertambahnya umur, dengan fase pertumbuhan tercepat terjadi pada rentang usia 1 hingga 2,5 tahun.

Kata Kunci: data vital statistik, pejantan eksotik, persilangan, sapi Bali

## GROWTH PERFORMANCE OF BALI CROSSBRED CATTLE WITH EXOTIC BULLS BASED ON VITAL STATISTICS DATA

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### ABSTRACT

The performance of the growth of Bali crossbred cattle depends on the breed of the male used. This study aims to identify vital statistics of crossbreeding Balinese cows with exotic studs in West Nusa Tenggara, East Lombok Regency. The research was conducted using survey method and interviews with farmers and inseminators. The data taken is vital statistics data by direct measurement of livestock including body length, chest circumference, and gumba height. The material used in the study was 43 Balinese cows crossed with exotic males. Data were grouped into 3 age categories: <1 year, 1-2,5 years, and >2,5 years. Data analysis was done descriptively in the form of percentage, average, and standard deviation based on age group and nation. The results showed body length, chest circumference, and gumba height in SimmetalxBali and LimousinxBali cattle. At <1 year of age, the body sizes of SimmentalxBali cattle were 100,75±6,85 cm; 138,50±5,92 cm; and 106,00±5,29 cm; respectively, while LimousinxBali cattle were 109,00±13,08 cm; 137,00±7,00 cm; and 114,00±8,89 cm. Body size at 1-2,5 years of age of SimmentalxBali cattle were 113,72±10,46 cm; 157,06±16,69 cm; and 114,28±7,85 cm, respectively; while LimousinxBali cattle were 123,67±17,95 cm; 157,00±7,81 cm; and 116,33±5,03 cm, respectively. The body size of SimmentalxBali cattle at >2,5 years of age was 122,67±8,12 cm; 168,83±8,68 cm; 122,83±3,56 cm; and 122,25±3,33 cm, respectively; while LimousinxBali cattle were 129,67±4,51 cm; 164,00±9,00 cm; and 123,67±9,61 cm, respectively. The growth of SimmentalxBali and LimousinxBali cattle increased with age, with the fastest growth phase occurring between 1 and 2,5 years of age.

Keywords: Balinese cattle, crosses, exotic males, vital statistics