

LAJU PERTUMBUHAN UKURAN TUBUH DAN BOBOT BADAN SAPI HASIL PERSILANGAN PEJANTAN *BELGIAN BLUE* DENGAN INDUKAN PERANAKAN *ONGOLE*

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INTISARI

Penelitian ini bertujuan untuk mengetahui laju pertumbuhan ukuran tubuh dan penambahan bobot badan pedet hasil persilangan pejantan BB dengan indukan PO dari lahir sampai 12 bulan. Penelitian menggunakan 16 ekor pedet. Pedet dipelihara bersama induknya hingga disapih pada umur 6 bulan. Pemeliharaan dilanjutkan hingga pedet berusia 12 bulan. Variabel yang diukur meliputi penambahan ukuran tubuh dan bobot badan harian pedet BBxPO dan PO baik jantan maupun betina selama 12 bulan. Data yang diperoleh dianalisis menggunakan rancangan acak pola faktorial 2x2. Pertambahan panjang badan, tinggi gumba, lingkar dada, dan bobot badan prasapih harian pedet BBxPO dan PO jantan berturut-turut masing-masing adalah $0,41\pm 0,10$ dan $0,40\pm 0,01$ cm/hari, $0,28\pm 0,01$ dan $0,27\pm 0,01$ cm/hari, $0,50\pm 0,02$ dan $0,46\pm 0,03$ cm/hari, serta $0,79\pm 0,03$ dan $0,75\pm 0,04$ kg/hari. Pertambahan panjang badan, tinggi gumba, lingkar dada, dan bobot badan prasapih harian pedet BBxPO dan PO betina berturut-turut masing-masing adalah $0,40\pm 0,02$ dan $0,39\pm 0,02$ cm/hari, $0,26\pm 0,01$ dan $0,25\pm 0,01$ cm/hari, $0,47\pm 0,03$ dan $0,45\pm 0,02$ cm/hari, serta $0,74\pm 0,02$ dan $0,68\pm 0,02$ kg/hari. Pertambahan panjang badan, tinggi gumba, lingkar dada, dan bobot badan pasca sapih harian pedet BBxPO dan PO pasca sapih jantan berturut-turut masing-masing adalah $0,50\pm 0,03$ dan $0,50\pm 0,03$ cm/hari, $0,36\pm 0,03$ dan $0,36\pm 0,03$ cm/hari, $0,65\pm 0,02$ dan $0,64\pm 0,03$ cm/hari, serta $0,90\pm 0,03$ dan $0,86\pm 0,03$ kg/hari. Pertambahan panjang badan, tinggi gumba, lingkar dada, dan bobot badan pasca sapih pedet BBxPO dan PO betina berturut-turut masing-masing adalah $0,50\pm 0,04$ dan $0,49\pm 0,02$ cm/hari, $0,36\pm 0,04$ dan $0,35\pm 0,02$ cm/hari, $0,66\pm 0,03$ dan $0,65\pm 0,03$ cm/hari, serta $0,87\pm 0,02$ dan $0,84\pm 0,03$ kg/hari. Pertambahan ukuran tubuh dan bobot harian pedet pra sapih dan pasca sapih baik jantan maupun betina berbeda tidak nyata. Disimpulkan bahwa persilangan indukan PO dengan pejantan BB prasapih maupun pasca sapih baik jantan maupun betina tidak meningkatkan pertambahan ukuran tubuh dan bobot badan pedet.

Kata kunci: Ukuran tubuh, Bobot badan, sapi BB, Sapi PO

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ABSTRACT

This study aimed to observe the growth rate of body size and body weight gain of calves resulting from BB bulls with the crossbreeding of PO cows from birth to 12 months. The study used 16 head of calves consisting of five heads of male and three heads of female BBxPO calves and three heads of male and five heads of female PO calves. The calves were raised with their dam until weaning at 6 months of age. Rearing continued until the calves were 12 months old. The variables measured included the daily body size and weight gain of BBxPO and PO calves, both male and female, over 12 months. The data obtained were analyzed using a 2x2 factorial randomized design. The pre-weaning daily body length, withers height, heart girth, and body weight gain of BBxPO and PO male calves were $0,41\pm0,10$ and $0,40\pm0,01$ cm/day, $0,28\pm0,01$ and $0,27\pm0,01$ cm/day, $0,50\pm0,02$ and $0,46\pm0,03$ cm/day, and $0,79\pm0,03$ and $0,75\pm0,04$ kg/day, respectively. The pre-weaning daily body length, withers height, heart girth, and body weight gain of BBxPO and PO female calves were $0,40\pm0,02$ and $0,39\pm0,02$ cm/day, $0,26\pm0,01$ and $0,25\pm0,01$ cm/day, $0,47\pm0,03$ and $0,45\pm0,02$ cm/day, and $0,74\pm0,02$ and $0,68\pm0,02$ kg/day, respectively. The post-weaning daily body length, withers height, heart girth, and body weight gain of BBxPO and PO male calves were $0,50\pm0,03$ and $0,50\pm0,03$ cm/day, $0,36\pm0,03$ and $0,36\pm0,03$ cm/day, $0,65\pm0,02$ and $0,64\pm0,03$ cm/day, and $0,90\pm0,03$ and $0,86\pm0,03$ kg/day, respectively. The post-weaning body length, withers height, heart girth, and body weight gain of BBxPO and PO female calves were $0,50\pm0,04$ and $0,49\pm0,02$ cm/day, $0,36\pm0,04$ and $0,35\pm0,02$ cm/day, $0,66\pm0,03$ and $0,65\pm0,03$ cm/day, and $0,87\pm0,02$ and $0,84\pm0,03$ kg/day, respectively. The pre-weaning and post-weaning daily body size and weight gain of BBxPO and PO calves, both male and female, was not significantly different. It is concluded that crossbreeding PO dams with BB bulls doesn't affect pre-weaning and post-weaning daily body size and body weight calves, both male and female.

Keywords: body size, body weight, belgian blue cattle, ongole grade cattle