

**KINERJA PERTUMBUHAN HASIL PERSILANGAN SAPI
WAGYU x BRAHMAN CROSS DAN BRAHMAN
CROSS UMUR 1 SAMPAI 1,5 TAHUN**

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INTISARI

Penelitian ini bertujuan untuk mengetahui kinerja pertumbuhan sapi hasil persilangan sapi Wagyu dengan Brahman *cross* (persilangan Wagyu) umur 1 sampai 1.5 tahun. Materi yang digunakan berupa 23 ekor sapi umur 1 tahun yang terdiri atas 13 ekor sapi persilangan Wagyu dan 10 ekor sapi Brahman *cross* (BX). Penelitian dilakukan di PT. Pandanaran Arta Perkasa dari bulan September 2017 sampai April 2018. Sapi dipelihara di kandang lepas dan lantai kandang diberi alas berupa serbuk gergaji. Pakan yang digunakan terdiri atas hijauan yang diberikan 2 kg dalam sehari dan konsentrat yang diberikan 10 kg dalam sehari. Penelitian dilakukan selama 6 bulan. Data yang diambil adalah tinggi gumba, lingkaran dada, panjang badan, dan bobot badan. Data yang diperoleh dianalisis dengan analisis kovariansi dan variansi. Analisis kovariansi menggunakan *two way* analisis kovariansi dengan data ukuran tubuh dan bobot badan awal sebagai kovariat sedangkan analisis variansi menggunakan *one way* analisis variansi. Pertambahan panjang badan, tinggi gumba, lingkaran dada, dan bobot badan harian sapi persilangan Wagyu dan BX berturut-turut masing-masing adalah 0.10 ± 0.03 dan 0.05 ± 0.04 cm/hari, 0.07 ± 0.04 dan 0.11 ± 0.05 cm/hari, 0.15 ± 0.06 dan 0.09 ± 0.08 cm/hari, serta 0.82 ± 0.18 dan 0.27 ± 0.12 kg/hari. Pertambahan panjang badan, lingkaran dada, dan bobot badan harian sapi persilangan Wagyu lebih besar ($P < 0.05$) dari sapi BX, tetapi pertambahan tinggi gumba harian kedua bangsa tersebut berbeda tidak nyata. Panjang badan, tinggi gumba, lingkaran dada, dan bobot badan sapi persilangan Wagyu dan BX pada umur 1,5 tahun berturut-turut masing-masing 136.69 ± 6.91 dan 119.83 ± 10.58 cm, 129.77 ± 6.15 dan 113.17 ± 6 cm, 182.15 ± 7.32 dan 151.58 ± 21.24 cm, 425.08 ± 44.90 dan 211.83 ± 47.03 kg. Panjang badan, tinggi gumba, lingkaran dada, dan bobot badan umur 1,5 tahun pada sapi persilangan Wagyu lebih besar ($P < 0.05$) dari sapi BX. Disimpulkan bahwa persilangan dengan sapi Wagyu meningkatkan kinerja pertumbuhan sapi BX umur 1 hingga 1.5 tahun.

Kata kunci : Persilangan Wagyu, Sapi Brahman Cross, Kinerja Pertumbuhan

GROWTH PERFORMANCE OF WAGYU - BRAHMAN CROSS BREED YEARLING CATTLE

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ABSTRACT

This study was conducted to observe the growth performance of cattle were produced by crossing Wagyu Cattle with Brahman cross (Wagyu cross) aged from 1 to 1.5 years. The research was conducted from September 2017 to April 2018 at PT. Pandanaran Artha Perkasa Farm, Klaten, Jawa Tengah. The materials used 23 cattle consist of 13 heads of Wagyu cross and 10 heads of Brahman cross (BX) as a control. Cattle communal in the communal pen. They were fed twice with forages of 2 kg and three times with concentrates of 10 kg a day. This research was conducted for 6 month. The observed data were consisted of wither height, heart girth, body length, and body weight. The data collected were analyzed using by covariance and variance. The data were using two way covariance analysis of covariance with body size data and initial body weight as covariates. As specially for wither height, heart girth, body length, and body weight in 1.5 years the data using analysis one way anova of variance. The body length, wither height, heart girth, and body weight daily gain of Wagyu cross and BX were 0.10 ± 0.03 and 0.05 ± 0.04 cm/day, 0.07 ± 0.04 and 0.11 ± 0.05 cm/day, 0.15 ± 0.06 and 0.09 ± 0.08 cm/day, and 0.82 ± 0.18 and 0.27 ± 0.12 kg/day, respectively. The body length, heart girth, and body weight daily gain of Wagyu cross were higher ($P < 0.05$) than those of BX, but there was no significant difference wither height daily gain between them. The body length, wither height, heart girth, and body weight of Wagyu cross and BX at 1.5 years old of were 136.69 ± 6.91 and 119.83 ± 10.58 cm, 129.77 ± 6.15 and 113.17 ± 6 cm, 182.15 ± 7.32 and 151.58 ± 21.24 cm, 425.08 ± 44.90 and 211.83 ± 47.03 kg, respectively. The body length, wither height, heart girth, and body weight at 1.5 years old of Wagyu cross were higher ($P < 0.05$) than those of BX. It is conclude that the crossing with Wagyu cattle improves the BX cattle growth performance from 1 to 1.5 years of age.

Keywords: Wagyu Crossing, Brahman Cross, Growth Performance