

International Meeting on

VETERINARY AND ANIMAL SCIENCE

August 06 - 07, 2018 | Dubai, UAE

Non-Genetic factors affecting reproduction traits of Indonesian Brahman cross (BX)

FA Kurniawan, Jakaria and R Priyanto
Bogor Agricultural University (IPB), Indonesia

Cattle breeding in the beef industry in Indonesia generally use imported Australian heifer Brahman Cross (BX) which is still productive (where previously intended as a need for fattening). The performance data of BX cattle with crossbreeding schemes from 2011 to 2016, collected from a private company in Serang, Banten Province of Indonesia and only 71 head used for evaluating non-genetics factors affecting the production and reproduction traits which they have up to second generation (filial 2). A General Linear Model (GLM) was used to analyze the non-genetic factors (breed, generation, sex, year, parity, and season). The Result showed that type of breed had very significant differences ($P < 0.01$) for final weight (W540) and average daily gain (ADG) while year of birth also presented very significant differences ($P < 0.01$) for almost all production traits such as weaning weight (WW), final weight (W540), and average

daily gain (ADG) but except for the birth weight (BW). Differences showed in year of birth interpreted as there are lower performances on ADG recorded for the second generation (filial 2) especially in the year after 2013. Sex and season only presented significant differences ($P < 0.05$) on average daily gain (ADG). The result also showed no significant differences on the reproduction traits. Results indicated that would be best to use Bos Taurus sire (Simmental and Brahman) to be inseminated (cross) with BX dam since there are very significant differences ($P < 0.01$) on the production traits which are final weight (W540) and average daily gain (ADG) with the Bos Indicus (Brahman), and the female can be used until second generation (filial 2), since there are also no significant differences in all of the reproduction traits.

fariz_am_kurniawan@yahoo.co.id