

ABSTRACT

THE ROLE OF NUTRITION ON THE PERFORMANCE AND HEALTH OF THE HORSE CART IN YOGYAKARTA

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The objective of the research was to study the role of nutrients concentrations in the horse feed ration on the performance and health of the horse-cart in Yogyakarta. Six horse feed rations were collected from different farmers and were analyzed for fat, protein, calcium, phosphorous and calories concentrations in the Biochemistry laboratory, Inter University Center Food and Nutrition, Gadjah Mada University, Yogyakarta. The research results showed that the concentrations of the fat, protein, calcium, phosphorous and calories in the horse feed rations were $2,11\pm 0,85\%$; $6,85\pm 0,84\%$; $0,26\pm 0,18\%$; $0,37\pm 0,17\%$ and $2731,1\pm 357,84$ Kkal/kg. Horse-cart regularly has high activities and based on the NRC the standard requirement for fat, protein, Ca, P and calories in the feed ration were 3%, 11.4%, 0.35%, 0.25% and 2850 Kkal/kg, respectively. Based on the comparison could be concluded that nutrient quality in the feed ration for the horse-cart in Yogyakarta was below the standard requirement for optimum performance and health.

Keywords : horse cart, management, nutrients, disease