

## ABSTRACT

**FARIDA SULMA.** H4A 004 005. Determinant Factor of Dairy Cattle Farm Development Potency in Semarang Residence (Pembimbing : **SUDJATMOGO** dan **CHRISTINA BUDIARTI**)

This research started from September 5<sup>th</sup> to November 28<sup>th</sup> 2005 in Semarang Residence. The aims of the research are to identify the factors which is related with the potency of dairy cattle farm development in Semarang Residence.

The item of this research are; 1). 180 people from the dairy cattle breeder respondent in Semarang Residence who disseminate in 5 distric that is : Getasan, Ungaran, Tengeran, Pabelan, Tuntang district; 2). Primary and secunder data which related to the potency of dairy cattle development in Semarang Residence. The equipment which is used in this research are stationery, feed weighing-machine, ribbon measurement/rondo, questioner, computer and camera. The method which is used in this research are survey method. Determinant location and respondent conducted by “purposive sampling”. The analysis of statistic that used in this research are multivariate Analysis with factor model on SPSS. Version 10 Program.

The result of this research showed that from 40 varibles, only 36 variables that able to be analysed, meanwhile the others are eliminated. Later, the 36 varibles have a MSA value = 0,721 and  $\alpha = 0,00$  (very real). Hereinafter, after the extraction of the 36 varianles have resulted 10 factors that have eigen value between 4,686 up to 1,082 (all value bigger than one) with cumulative varians equal to 65,524% meaning that the potency of Semarang residence for dairy cattle farm development can be explained by the original variable that included in the 10 factors and have the eigen value : nutrition management (4,686), conservacy management (4,314), skill of choosen the livestock (3,643), breeding skill (2,622), environmental potency (1,723), cow health (1,578), production cost (1,453), population arrangement (1,297), stable knowledge (1,200) and matting arrangement (1,082)

The conclusion of this research are the dairy cattle farm in Semarang Redience have potency to be development, because it supported by 10 factors which have potency in dairy cattle farm development and it have eigen value equal to 65,524 percent.

**Keyword : Potency, Dairy catle, Eigen value**