

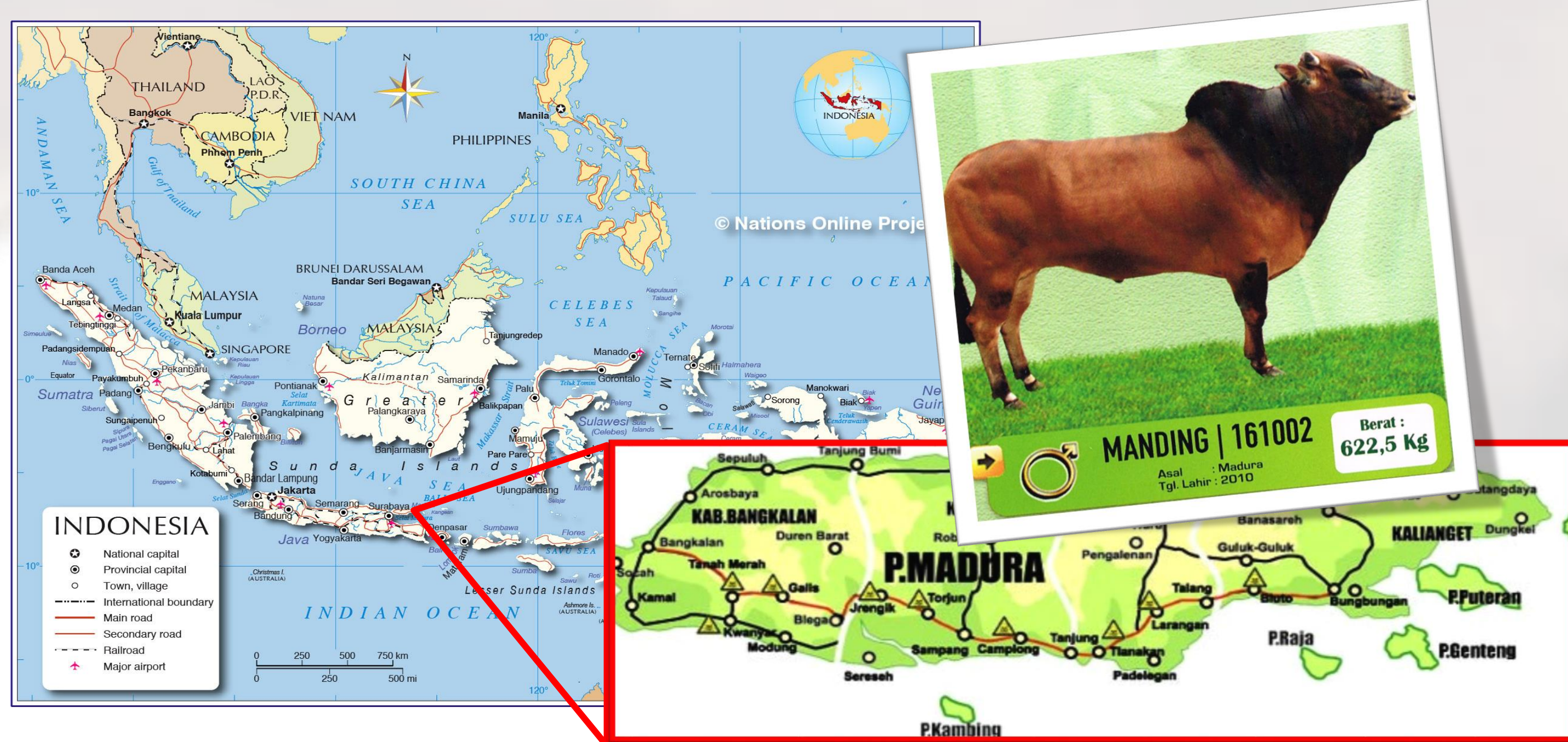
SEMEN CHARACTERISTICS AND FREEZING CAPABILITY OF MADURA'S CATTLE

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Introduction

Madur cattle is a Bali-Ongole-Java native composite breed, develop from Bali (*Bibos banteng*), Java-native (*Bos javanicus*) and Ongole (*Bos indicus*). To improve the quality of Madura cattle, Lembang artificial insemination center produces frozen semen of this breed. **This research aimed to study the characteristics of Madura's bull fresh semen and freezing capability to predict the amount of the straw produce of each ejaculate.**



Methodology

Five Madura bull belong to National Lembang AI center used for this research, in total 185 ejaculates during 2015, age 5-7 years, body weight 500-600 kg belong to Lembang Artificial Insemination Center was used as a sperm source.



Results

Table 1 The quality of Madura bull semen*

Semen Characteristics	Bull Number				
	161001	161002	161203	161204	161205
Volume (ml)	5.16 ± 1.04	5.34 ± 1.34	4.42 ± 1.00	5.98 ± 1.39	5.72 ± 1.17
Sperm Motility (%)	70 ± 0.01	70 ± 0.01	72 ± 0.03	70 ± 0.00	70 ± 0.00
Sperm Concentration (X 10 ⁶)	1.071.75 ± 267.81	1.160.53 ± 280.48	1.305.52 ± 228.77	919.39 ± 210.79	746.67 ± 187.74

*185 ejaculate during 2015

Table 2 Recovery rate and Number of straws yield per ejaculate of Madura bull semen

Semen atribut	Bull number				
	161001	161002	161203	161204	161205
Raw Semen Motility (%)	70 ± 0.01	70 ± 0.01	72 ± 0.03	70 ± 0.00	70 ± 0.00
No. of Straw per ejaculation	209.40 ± 64.89	237.97 ± 93.58	218.09 ± 66.87	209.00 ± 61.54	163.33 ± 52.44
Post Thawing Motility (%)	52.41 ± 16.27	59.50 ± 23.37	54.43 ± 16.73	52.32 ± 15.41	40.78 ± 12.96
Recovery rate (%)	74.87	85.00	75.59	74.74	58.26

In conclusion semen characters of Madura's bull, number straw produced from single ejaculation are good and had a high recovery rate.



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