

DAGING LEMBU **SEGAR**

VS

DAGING KERBAU **SEJUK BEKU**

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Di Malaysia, daging lembu dan kerbau merupakan sumber daging merah utama bagi pengambilan protein. Malaysia mengimpor di antara 75% hingga 80% daging kerbau sejuk beku dari beberapa negara bagi memenuhi keperluan tempatan. Pengimportan daging kerbau sejuk beku yang tinggi mencetuskan kebimbangan di kalangan pengusaha daging lembu tempatan dimana ia mungkin akan menyebabkan kurangnya permintaan terhadap daging lembu tempatan kerana daging kerbau sejuk beku lebih mudah didapati pada harga yang lebih rendah. Namun adakah mungkin ia hanya tanggapan sahaja?

Oleh yang demikian, bagi merungkaikan permasalahan tersebut, satu kaji selidik telah dijalankan bagi mengenalpasti KEGEMARAN PENGGUNA di antara daging lembu segar dan daging kerbau sejuk beku, dan mengenalpasti HARGA YANG MAMPU serta HARGA YANG DIINGINKAN oleh pengguna untuk daging lembu segar tempatan. Berikut adalah di antara beberapa dapatan kajian. Kajian terperinci boleh dicapai di:

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STUDY ON CONSUMER PREFERENCE AND CONSUMPTION OF LOCAL BEEF AND FROZEN IMPORTED BUFFALO MEAT

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ABSTRACT
The survey was conducted to determine the consumer preference on local beef and frozen imported buffalo meat, and to investigate the affordable price range of each type of meat. A total of 737 respondents participated in the survey from July 2013 to August 2013. The results showed that 65.4% of the consumers bought not more than 2 kg of local beef and 50.2% bought not more than 2 kg of frozen imported buffalo meat. The mean price of local beef was 21,000–25,000 Rupiah/kg, while the mean price of frozen imported buffalo meat was only 46,000 Rupiah/kg. The results also showed that 87.5% of the consumers preferred local beef over frozen imported buffalo meat, and only 8.6% preferred frozen imported buffalo meat over local beef. The results revealed that 91.5% of the consumers were willing to pay more for local beef than frozen imported buffalo meat as well as affordably expensive local beef. In contrast, 8.5% of the consumers preferred frozen imported buffalo meat over local beef. The results also showed that 90.8% of the respondents had chosen to buy local beef, while 9.2% chose frozen imported buffalo meat. Five out of the five price were similar.

Keywords: beef, local beef, imported frozen meat, market test, preference, purchase

INTRODUCTION

In Indonesia, local beef and buffalo meat are the primary source of red meat for annual consumption (BPS, 2013; Ministry of Agriculture, 2014/2015). Indonesia produced 18,600 metric tonnes of beef (estimations of 2013) and 10,000 metric tonnes of buffalo meat (BPS, 2013). The total population of Indonesia in 2013 was 210,000,000 people (BPS, 2013). Therefore, the mean consumption of beef was 21.60 kg/year, 2013. However, Indonesia's consumption of frozen imported meat has increased rapidly in recent years due to the rapid increase from different countries to fulfill the demand (Makarean et al., 2011).

In the global agriculture information network, Indonesia is the second largest importer and meat is dominated by India, reporting a total of 270,000 metric tonnes of beef/meat imports in 2012 (FAO, 2013). The high importation of the meat has become a issue with local cattle production, especially in the eastern part of Indonesia. The high availability of imported frozen buffalo meat and its lower selling price may reduce the consumption of local beef. However, there has been no scientific publication

MULTIYEAR SURVEY OF VETERINARY RESEARCH

of a long-term survey on local beef and frozen imported buffalo meat in Indonesia.

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of 6.4 kg per person annually per capita consumption for local beef and frozen meat as well as 1.7 kg per person annually per capita consumption and sale value of 21.6 kg (Rupiah/kg), 3.2 kg (Rupiah/kg), 1.8 kg (Rupiah/kg) and 1.7 kg (Rupiah/kg) per person in 2013.

RESULTS, DISCUSSION, KNOWLEDGE AND CONCLUSION

The aim of the survey was to identify consumers' knowledge and preference regarding the type of meat and its price. The survey was conducted concerning both types of meat (beef and frozen imported meat). The survey result was local beef meat and 33.0% of the respondents preferred frozen imported meat. The results showed that local beef and imported frozen buffalo meat, and their prices were similar in colour

Fig. 1. Percentage of respondents (n=737) who preferred local beef or frozen imported buffalo meat in a month (n=201).

Meat Type	Number of Respondents (n=201)	Percentage (%)
Local beef	182	87.5
Frozen imported buffalo meat	119	12.5

Fig. 2. Percentage of respondents (n=737) who were willing to pay more for local beef than frozen imported buffalo meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	90.8
Frozen imported buffalo meat	93	9.2

Fig. 3. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported buffalo meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	85.0
Frozen imported buffalo meat	93	15.0

Fig. 4. Percentage of respondents (n=737) who were willing to pay more for local beef than frozen imported meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	87.5
Frozen imported meat	93	12.5

Fig. 5. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	85.0
Frozen meat	93	15.0

Fig. 6. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	87.5
Frozen imported meat	93	12.5

Fig. 7. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	85.0
Frozen imported meat	93	15.0

Fig. 8. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	87.5
Frozen imported meat	93	12.5

Fig. 9. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	85.0
Frozen imported meat	93	15.0

Fig. 10. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	87.5
Frozen imported meat	93	12.5

Fig. 11. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	85.0
Frozen imported meat	93	15.0

Fig. 12. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	87.5
Frozen imported meat	93	12.5

Fig. 13. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	85.0
Frozen imported meat	93	15.0

Fig. 14. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	87.5
Frozen imported meat	93	12.5

Fig. 15. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	85.0
Frozen imported meat	93	15.0

Fig. 16. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	87.5
Frozen imported meat	93	12.5

Fig. 17. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	85.0
Frozen imported meat	93	15.0

Fig. 18. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	87.5
Frozen imported meat	93	12.5

Fig. 19. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	85.0
Frozen imported meat	93	15.0

Fig. 20. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	87.5
Frozen imported meat	93	12.5

Fig. 21. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	85.0
Frozen imported meat	93	15.0

Fig. 22. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	87.5
Frozen imported meat	93	12.5

Fig. 23. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	85.0
Frozen imported meat	93	15.0

Fig. 24. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	87.5
Frozen imported meat	93	12.5

Fig. 25. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	85.0
Frozen imported meat	93	15.0

Fig. 26. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	87.5
Frozen imported meat	93	12.5

Fig. 27. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	85.0
Frozen imported meat	93	15.0

Fig. 28. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	87.5
Frozen imported meat	93	12.5

Fig. 29. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	85.0
Frozen imported meat	93	15.0

Fig. 30. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	87.5
Frozen imported meat	93	12.5

Fig. 31. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	85.0
Frozen imported meat	93	15.0

Fig. 32. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	87.5
Frozen imported meat	93	12.5

Fig. 33. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	85.0
Frozen imported meat	93	15.0

Fig. 34. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	87.5
Frozen imported meat	93	12.5

Fig. 35. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	85.0
Frozen imported meat	93	15.0

Fig. 36. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	87.5
Frozen imported meat	93	12.5

Fig. 37. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	85.0
Frozen imported meat	93	15.0

Fig. 38. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	87.5
Frozen imported meat	93	12.5

Fig. 39. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	85.0
Frozen imported meat	93	15.0

Fig. 40. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	87.5
Frozen imported meat	93	12.5

Fig. 41. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	85.0
Frozen imported meat	93	15.0

Fig. 42. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	87.5
Frozen imported meat	93	12.5

Fig. 43. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	85.0
Frozen imported meat	93	15.0

Fig. 44. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	87.5
Frozen imported meat	93	12.5

Fig. 45. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported meat.

Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	85.0
Frozen imported meat	93	15.0

Fig. 46. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported meat.

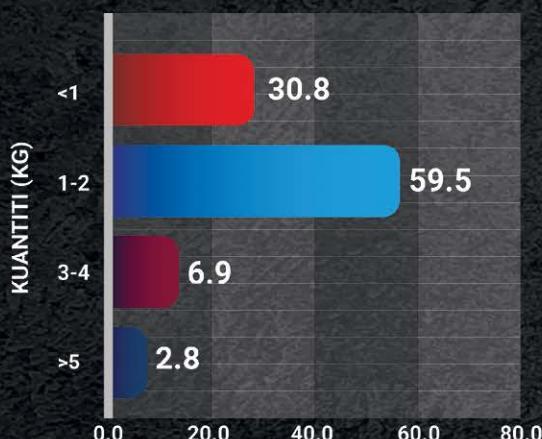
Meat Type	Number of Respondents (n=737)	Percentage (%)
Local beef	654	87.5
Frozen imported meat	93	12.5

Fig. 47. Percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported meat.

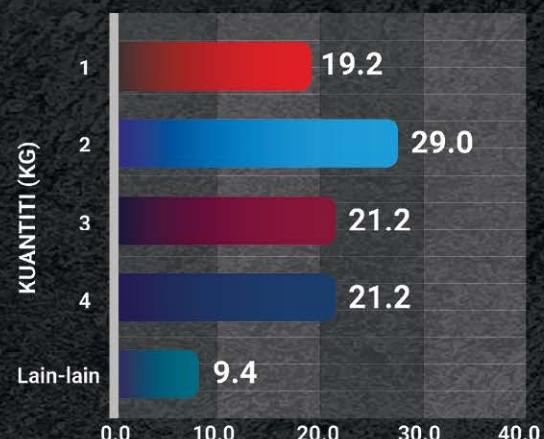
<img alt="Bar chart showing the percentage of respondents (n=737) who were willing to pay more for affordably expensive local beef than frozen imported meat. The x-axis shows two categories: Local beef (n=



Kajian menunjukkan **90.3%** pengguna membeli daging lembu segar tempatan dan/atau daging kerbau sejuk beku import tidak melebihi **2 kg** sebulan (**Rajah 1**) dan **48.2%** memakan daging di antara **1 hingga 2 kg** sebulan seisi rumah (**Rajah 2**).

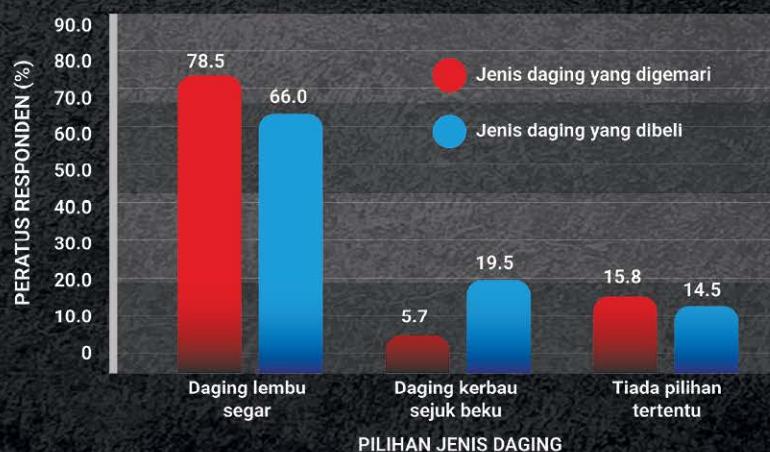


Rajah 1: Peratus responden (%) mengikut kuantiti daging yang dibeli dalam masa sebulan



Rajah 2: Peratus responden (%) mengikut kuantiti daging yang dimakan sebulan seisi rumah

78.5% pengguna menggemari daging lembu segar, tetapi hanya **66.0%** yang membeli daging tersebut. Bagi daging kerbau sejuk beku, hanya **5.7%** pengguna menggemari daging tersebut, tetapi **19.5%** memilih untuk membeli daging tersebut (**Rajah 3**).



Rajah 3: Peratus responden (%) mengikut pilihan jenis daging yang digemari dan jenis daging yang dibeli

Kajian juga menunjukkan hampir 60.0% pengguna membeli daging kerbau sejuk beku pada harga kurang daripada RM26 per kg. Bagi daging lembu segar pula, hampir 80.0% pengguna membeli pada harga RM26 hingga RM 40 per kg (Jadual 1). Kedua-dua harga pembelian tersebut selaras dengan harga jualan yang telah ditetapkan oleh Kementerian Perdagangan Dalam Negeri & Hal Ehwal Pengguna.

HARGA (RM/kg)	RESPONDEN (%)	
	HARGA JUALAN DAGING LEMBU SEGAR	HARGA JUALAN DAGING KERBAU SEJUK BEKU
<20	Nil	30.2
21-25	9.5	29.3
26-30	32.3	11.9
31-35	35.2	5.7
36-40	12.7	nil
Tidak Pasti	11.3	22.9

Jadual 1: Peratus responden (%) mengikut harga pembelian daging lembu segar & daging kerbau sejuk beku.

Apabila responden ditanya mengenai kemampuan mereka berkaitan harga jualan tersebut, 61.3% pengguna berpendapat bahawa harga jualan daging lembu segar masih berada dibawah kemampuan mereka. Walau bagaimanapun, 93.9% pengguna lebih gemar dan berharap agar harga daging lembu segar dapat dikurangkan sehingga kurang daripada RM30 per kg (Jadual 2). Selain itu, 91.0% pengguna juga akan memilih untuk membeli daging lembu segar tempatan sekiranya harga daging tersebut diletakkan sama dengan harga daging kerbau sejuk beku import.

HARGA (RM/kg)	RESPONDEN (%)	
	HARGA MAMPU BELI DAGING LEMBU SEGAR	
<20	35.6	
21-25	35.5	
26-30	22.8	
31-35	6.1	
36-40	Nil	
Tidak Pasti	Nil	

Jadual 2: Peratus responden (%) mengikut harga mampu beli daging lembu segar.