

# PIG BREEDING AND UTILIZATION OF SEMEN IN MALAYSIA



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A85

## The Pig Industry in Malaysia

Year 2017

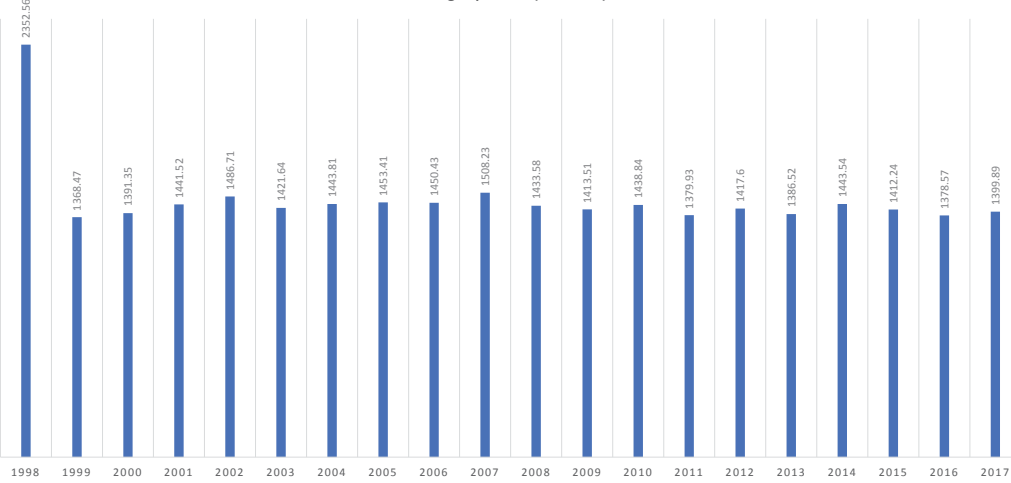
Pig Population	1,399,890 heads
Number of Farms	509 farms (mainly located at State of Penang, Perak, Melaka, Selangor & Johor)
Local Consumption of Pork	207,263 metric tons
Pork Consuming Population	40% (among 31.7 million)
Self Sufficiency Level	93.60%

## The Pig Industry in Malaysia

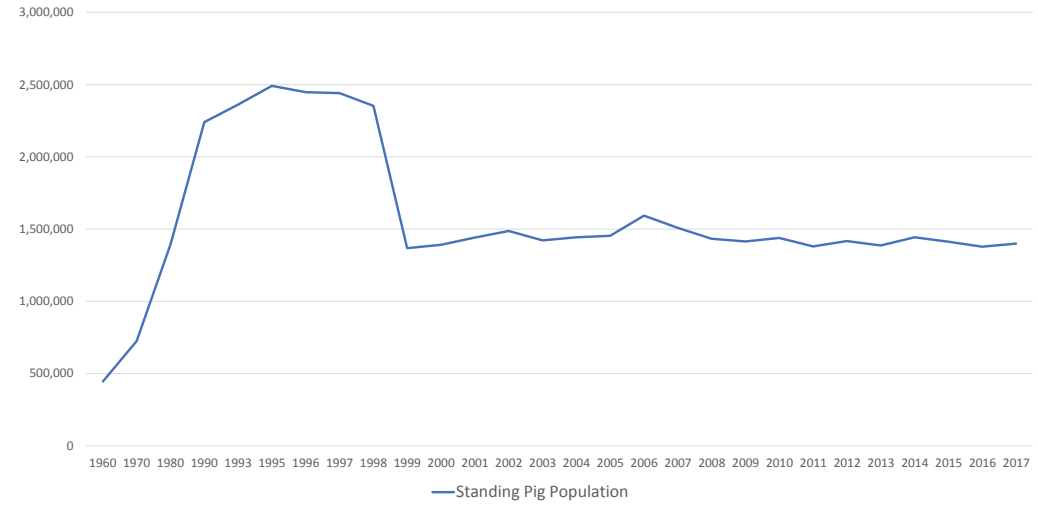
Common Breeds	Duroc, Large White & Landrace
Importation of Pork	6.4%
Cost of Production	RM 8.55/ kg
Average Market Weight	100-120 kg
Average Age at the Market	195 days (6.5 months)

### PIG POPULATION (THOUSAND)

■ Pig Population (Thousand)

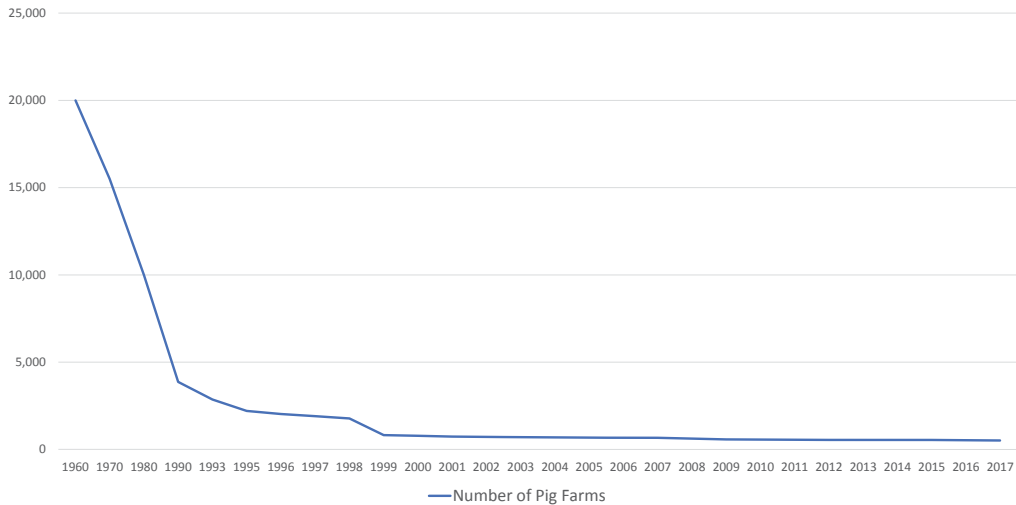


### Standing Pig Population



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### Number of Pig Farms



### Common Breed of Pig Common commercial crosses (DVS Malaysia, 1986)

Breed	Common Commercial Crosses		Common Usage for Porker Production
	2-way	3-way	
Duroc (D)	LW x LR	D x LR/ LW	Male Line
Large White (LW)	LR x LW	D x LW/ LR	Male/ Female Line
Landrace (LR)	D x LR		Female Line
Chester White (CW)	D x CW	P x CW/ LR	Male Line
Hampshire (H)		P x LW/ LR	Male Line
Pietrain (P)			Male Line

## Sign of Heat Detection

Heat Sign	Too Early	In Time	Too Late
Vulva	Heavily swollen, dark in red, red in colour, no or few slime secretion	Less swollen, less red in colour, slime secretion	Not swollen anymore, normal in colour and slime is sticky
Reflex	Female stays if the herd man is pushing the sides, it does not stay properly.	Female stays clearly for the herd man and show remarkable moving of its ears	Female does not stay for the herd man anymore but still allow boar to climb
Behaviour	Female is restless and climb on another female	Female is quiet, is climbing by another female and stay	No signs of climbing on other pigs

Semen Variables	Value
Appearance	Milky to creamy consistency
Colour	Grey-white to white in colour
Total Sperm numbers	>15 x 10 <sup>9</sup> sperm/ ejaculation
Gross Motility (unextended)	≥ 70%
Abnormal Morphology	≥ 20%
Cytoplasmic Droplets	< 15%

**Minimum values of fresh boar semen processed and used for Artificial Insemination**

A.87



Artificial insemination in sow, semen collection and semen evaluation from boar in Chau Yang farming, State of Perak, Malaysia

- Pig farms in Malaysia currently in the transition from traditional farming to Modern Pig Farming (MPF)
- 4 criteria of MPF
  - Closed house
  - Zero-discharge
  - 200m buffer zone
  - Good Animal Husbandry Practices (GAHP)



## Pig Disease Surveillance

Disease	Compulsory notification	2015		2016		2017 (--30, OCT)	
		Outbreak	Case	Outbreak	Case	Outbreak	Case
CSF	Yes	0	0	0	0	0	0
Swine FMD	Yes	0	0	3	85	0	0
PRRS	Yes	0	0	0	0	0	0
ASF	Yes	0	0	0	0	0	0
Nipah	Yes	0	0	0	0	0	0
JE	Yes	0	0	0	0	0	0

## Importing Protocol for Live Pigs

- Import Permit
  - Valid import permit from Malaysian Quarantine and Inspection Services Malaysia (MAQIS) concerning importation of such animals into Malaysia
- Description of Animal
  - Certificate containing full description or identification of the animals
- Veterinary Certification
  - Issued by Government Veterinary Authority of the exporting country
  - Animals originate from farm or premise free from FMD, CSF, etc diseases
  - Animals clinically healthy and free from any symptoms of infectious or contagious disease at the time of export
  - Animals treated with products registered for use against internal and external parasites within 7 days prior to export

A.88

## Importing Protocol for Live Pigs

- Transportation and Landing Place
  - Swine or animals not of similar health status, animal feed or fodder shall not allow to be taken on the transportation to Malaysia
  - Consignment of animals shall be carried by truck or ship or aircraft direct to the prescribed place or landing place
- Inspection at the point of Entry in Malaysia
  - Official documents surrendered to MAQIS for veterinary inspection and verification
- Quarantine a period not less than 14 days at the approved quarantine facility

## Challenges in Swine Industry

- Environment pollution
- High cost building close house system
- Competition of the land
- Country sensitive issue



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