

# 公豬與女豬腳蹄性狀評選 Hoof Evaluation of Boar and Gilt

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## Introduction



台灣區種豬產業協會會員場分佈圖

Locations of swine stock farmer from Formosan Farmers Association for Swine Improvement (FFASI)

## 最佳生長性能記錄

### Top records of growth performance

Year of Birth	Breed	No. of Boar	ADG, kg		FE (Feed/Gain)		BF Thickness, cm	
			Great -est	ADG Mean	Best	FE Mean	Thinn-est	BF Mean
2014	<u>D</u>	<u>114</u>	1.3	1.13	1.89	2.032	1.14	1.289
2013	<u>D</u>	<u>290</u>	1.46	1.142	1.95	2.06	1.15	1.294
2014	<u>L</u>	<u>40</u>	1.33	1.15	1.98	2.054	1.18	1.308
2013	<u>L</u>	<u>109</u>	1.45	1.165	1.97	2.062	1.15	1.313
2014	<u>Y</u>	<u>24</u>	1.26	1.128	1.98	2.039	1.22	1.318
2013	<u>Y</u>	<u>45</u>	1.39	1.166	1.96	2.07	1.23	1.346

The Central Performance Test Station of National Animal Industry Foundation (CPTS)

## 臺灣公豬淘汰原因

The reasons for boar culling in Taiwan

	Head 頭數	Percentage 百分比
Poor semen 精液不良	25	29.5
Disease 疾病	19	22.6
No libido 無性慾	13	15.5
Feet and leg problems 腳弱	27	32.1
Total 總計	84	100.0

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- ❖ To induced the swine breeding farmer to enforce the structure of pig 's feet and legs 為使種豬場對種豬腳蹄結構的重視
- ❖ To extend the useful life of elite swine purebreds 為延長優良種豬使用年限
- ❖ Therefore, Livestock Research Institute has referenced the discretion of hoof structure scoring method of Europe and America to set up a scoring method 畜產試驗所已參酌歐美腳蹄結構評分方法，建立種豬腳蹄評分表

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## 評分方法 scoring method

- ❖ Swine stock's feet & leg evaluation form as table 1, total score was 100 points
- ❖ overall views before scoring.
- ❖ 種豬腳蹄評分表，如表1。評分總分100分，評分前先綜觀

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## Overall views 綜觀



Four legs are moderate length, wide between two legs, standing upright, walk more fluidly, pasterns are short and strong. 四肢長度適中，肢間寬闊，站立端正，步行健實，繫部短而強有力。

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## Fore Leg ( 40 points) 前肢(40%)

Table 1. Swine stock's feet & leg evaluation

Breed	Ear No.		Item (points)	Fore leg ( 40 points)			
		Code		Feature			
			Angle at the knee joint (10)		1	Extremely buckled	
					2	Buckled	
					3	Straight	
					4	Normal	
					5	Sickled	

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## Fore Leg ( 40 points) 前肢(40%)

Legs turning (10)		1	O shaped	
		2	Standing inwards	
		3	normal	
		4	Standing outwards	
		5	X shaped	

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## Fore Leg ( 40 points) 前肢(40%)

Condition of the pasterns (10)		1	Extremely buckled	
		2	Straight	
		3	normal	
		4	Weak	
		5	Extremely Weak	

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Size and uniformity of claws (10)			
	1 small	3 normal	5 uneven

A pig who exhibits correct structure will stand down on even toes with equal wear on both toes proportionately.



蹄 ( )			
	1 小蹄	3 正常	5 不均



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Sex	Recording No.		
Item (points)	Rear leg (60 points)		
	Code	Feature	Points
Angle at the hock joint (15)	1	Extremely buckled	
	2	Buckled	
	3	Straight	
	4	Normal	
	5	Sickled	
Legs turning (15)	1	O shaped	
	2	Standing inwards	
	3	normal	
	4	Standing outwards	
	5	X shaped	
Condition of the pasterns (15)	1	Extremely bucked	
	2	Straight	
	3	normal	
	4	Weak	
	5	Extremely weak	

Hind leg (60 points)  
後肢 (60%)

Size and uniformity of claws (10)			
	1 small	3 normal	5 uneven

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繫臥  
Extremely weak



後腳正常 Normal



後腳外八  
Standing outwards



後腳弱 Sickled

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## Working team

- There were 9 members – FFASI(1), TLRI (4), CPTS (3) and Hog industry(1)  
工作小組有來自種豬產業協會、畜試所、中央檢定站南站與肉豬產業代表九個成員
- Each time three representative team members will score for feet and legs of boars and girls  
每次之評分經由種公豬豬腳結構評分工作小組三位成員共同進行

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## Working team

3. Mr. Liu Kuei Chu (The Secretary-General of FFASI) and Mr. Lin Ko Yu (Hog industry representatives) served as chief umpire and vice umpire respectively.

由劉桂柱與林克育先生分別擔任主、副審

## Results

- ❖ March 3, 2011 to November 9, 2014
- ❖ 554 purebreds of 39 auctions from members of Formosan Farmers Association for Swine Improvement
- ❖ 470 purebreds of 29 terms from the Central Performance Test Station of National Animal Industry Foundation
- ❖ 從 2011 年 3 月 3 日至 2014 年 11 月 9 日止，共完成 39 次共 554 頭台灣區種豬產業協會展示拍賣之種豬及 29 期共 470 頭財團法人中央畜產會中央檢定站完檢之種豬之豬腳結構性狀的檢測。

❖ We presented a medals for “hoof feet first grade” in accordance with variety and gender of swine, a total of 262 medals awarded, the results were shown in Table 2.

❖ 分品種分性別頒贈「腳蹄第一名」獎牌，共頒出 262 面獎牌(如表 2)。

Table 2.

福昌	103	水波	8
王文曲	34	富村	3
暉煌	23	高昌	6
仙佳	20	狀元	4
祝興	11	泰宏榮	2
願景金來	10	馮亮欽	1
順安	7	澧浦	1
金山	7	豪耀	2
合一	7	台糖新厝	1
大豪興	8	福冠	1

合計 262



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❖ There were six swine stock farms which with up 9 heads of breeding pigs with the top grade of feet and legs.

❖ It showed the scoring method has induced the swine breeding farmer to enforce the structure of pig's feet and legs.

■ 腳蹄結構檢測結果，入選腳蹄第一名總頭數在10頭(含)以上之種豬場有六場，顯示他們對種豬腳蹄結構的重視。

- ❖ Average selling price of 63 tested pigs (got the top grade of feet and legs in 2013), 38,651 NT, was higher than total turnover of 935 pigs ( 31,533 NT ).
- ❖ Those who purchased pigs also considered the structure of pig hooves.

■ 而於民國102年所檢測之每次第一名腳蹄評分之63頭種豬平均售價高過出售之935頭種豬總平均(38,651元VS 31533元)，顯示購豬者亦考量種豬腳蹄結構。

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❖ In summary, the scoring of feet and legs data has become one of the auction information in swine purebreds, and may offer the reference data for improving the structure of pig's feet and legs of various swine stock farms.

■ 綜合顯示腳蹄評分資料，已成為種豬拍賣資訊的一部分，可提供各種豬場腳蹄改善因應參考。

*Thank you for your attention*

謝謝聆聽！

