

Hoof Trait Evaluation of Breeding Pigs

顏念慈 (Yen Neim Tsu)



*Introduction

Conclusion

Hoof trait evaluation

最佳生長性能記錄 畜產試驗所

Top records of growth performance

Year of	Breed	No. of	ADO	G, kg		E /Gain)		ckness, m
Birth		Boar	Great -est	ADG Mean	Best	FE Mean	Thinn -est	BF Mean
2018	D	334	119	150.7	1.36	1.082	1.16	1.351
2017	D	<u>381</u>	125	147.6	1.49	1.131	1.2	1.383
2018	<u>L</u>	<u>155</u>	127	147	1.37	1.123	1.18	1.356
2017	L	<u>145</u>	127	144.7	1.43	1.152	1.21	1.387
2018	<u>Y</u>	<u>51</u>	123	146.5	1.41	1.136	1.25	1.366
2017	<u>Y</u>	<u>66</u>	133	147.2	1.44	1.145	1.26	1.402

Outline大綱

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





最佳生長性能記錄

Top records of growth performance

Year of	Breed No. of		Age at 110 kg BW.		FE (Feed/Gain)		BF Thickness, cm	
Birth		Boar	Great -est	ADG Mean	Best	FE Mean	Thinn -est	BF Mean
2018	D	334	1.36	1.082	1.856	2.076	1.16	1.351
2017	D	<u>381</u>	1.49	1.131	1.933	2.075	1.2	1.383
2018	L	<u>155</u>	1.37	1.123	1.933	2.081	1.18	1.356
2017	L	145	1.43	1.152	1.955	2.068	1.21	1.387
2018	<u>Y</u>	<u>51</u>	1.41	1.136	1.986	2.095	1.25	1.366
2017	<u>Y</u>	<u>66</u>	1.44	1.145	1.915	2.061	1.26	1.402

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

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Livestock Research Institute has referenced the discretion of hoof structure scoring method of Europe and America to set up a scoring method for pig selection system of Taiwan.





臺灣公豬淘汰原因

The reasons for boar culling in Taiwan

F GAL 3	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

scoring method

- Swine stock's feet & leg evaluation form as table1, total score was 100 points
- overall views before scoring.



Breed	1		No.		Sex		Rece	ording No.	chi	
	F	ore leg (40	points)			R	car leg (60	points)		
(points)		Code	Feature	Points	Item (points)		Code	Feature	Points	
	V	. 1	Extremely buckled			8	1	Extremely buckled		
Angle of	8	2	Buckled		Angle at	V	2	Buckled		
joins (10)	U	3	Straight		the hock joint (15)	V	3	Straight		
- 83	4	Normal		1	1	4	Normal			
	35	5	Sickled			1	5	Sickled		
	(83)	1	O shaped	-		15/	1	O shaped		
Logs		2	Standing inwards		Leas	10	2	Standing inwards		
(10)	(A.)	3	normal		(15)	(A)	3	normal		
	199	4	Standing outwards			M	4	Standing outwards		
	3.5	5	X shaped			JAL	5	X shaped		
	37	1	Extremely bucked			- V_	1	Extremely bucked		
Condition	35	2	Straight		Condition .	16	2	Straight		
posturus (10)	3	3	normal		pasterns (15)	1	3	normal		
	77	4	Weak		2 2	24	4	Weak		
Size and	6	5	Weak			16	5	weak		
of claws	40	40	4		Size and uniformity of claws	4	AA	Ala.		
(10)	small	normal	5 uneven		(15)	small	normal	5 uneven		
Signatu	reof	, movinai	Di	ate of luation		amall	1 normat	Score		

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Fore Leg (**40 points**) (40%)

Table	1.	Swine	stock'	s	feet	&	leg	eval	uatio
		1000			0.00		100000		

Breed	o decara	Ear	No.	Will West
	Fo	ore leg (40	points)	
Item (points)		Code	Feature	
	3	1	Extremely buckled	
Angle at		2	Buckled	
the knee joint (10)	W.	3	Straight	
	V.J	4	Normal	
		5	Sickled	

Overall views



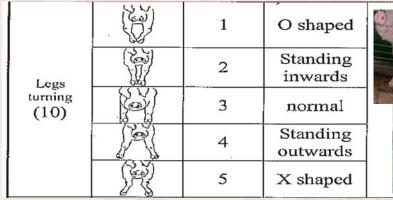


Four legs are moderate length, wide between two legs, standing upright, walk more fluidly, pasterns are short and strong.

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Fore Leg (40 points) (40%)





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Fore Leg (**40 points**) (40%)

	+	
, }	1	Extremely bucked
	· 2	Straight
	3	normal
	4	Weak
	5	Extremely Weak
		1 2 3 4 5



1:

Sex		Reco	ording No.	-00-
	R	ear leg (60) points)	
Item (points)		Code	Feature	Points
	1	1	Extremely buckled	
Angle at the hock joint (15)	A	2	Buckled	
	3	3	Straight	
	36	4	Normal	
	1	5	Sickled	
	10/	. 1	O shaped	
Legs	1	2	Standing inwards	
(15)		3	normal	
	M	4	Standing outwards	
Í	SAL	5	X shaped	
	1	1	Extremely bucked	
Condition)[2	Straight	
of the pasterns (15)	1	3	normal	
(12)	25	4	Weak	
	15	5	Extremely weak	



Hind leg (60

points)

後肢

(60%

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



瑶	4	-	-
()	1	3	5
\/	小蹄	正常	不均



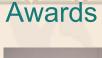
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Working team

- 1. Thee were 9 members from FFASI, TLRI(4), CPTS (3) and hog industry representatives
- 2.Each time three representative team members will score for feet and legs of boars and girls
- 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.

R & D results

福昌	227	大豪興	18
王文曲	44	順安	13
暉煌	41	冠儒	13
仙佳	39	願景金來	10
水波	37	台糖新厝	4
祝興	28	福冠	4
金龍	21	冠妮	1









合計538

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Paternal parent of breeding pigs with the top grade of hooves

2018年腳蹄第一名種豬頭數統計

種豬場	第一面	最近		項數	序
作生和一切	得獎日期	得獎日期	$\underline{\mathbf{D}}$ $\underline{\mathbf{L}}$	<u>Y</u> <u>F</u>	計號
大豪興	2018/1/15	2018/8/15	3		<u>3</u> 1
水波	2018/4/25	2018/11/28	2	3	<u>5</u> 2
仙佳	2018/3/28	2018/7/25	2		<u>2</u> 3
台糖新厝	2018/1/24	2018/1/24		1	<u>1</u> 4
金龍	2018/3/3	2018/12/12	11		<u>11</u> 5
冠儒	2018/1/15	2018/12/12	6		<u>6</u> 6
祝興	2018/3/3	2018/10/24	4		<u>4</u> 7
順安	2018/1/24	2018/1/24	1		<u>1</u> 8
暉煌	2018/4/25	2018/6/6	1 2		<u>3</u> 9
福昌	2018/1/15	2018/12/12	12 3	4	<u>19</u> 10
福冠	2018/7/11	2018/7/11	1		1 11 19

Paternal parent of breeding pigs with the top grade of hooves

2019年腳蹄第一名種豬頭數統計 (查詢日:2019/12/7)

46 Th 18	第一面	最近		總頭數		序	
種豬場	得獎日期	得獎日期	<u>D</u> <u>I</u>	<u>Y</u> <u>F</u>	計	號	
福昌	2019/1/15	2019/11/27	10 1	1 1	22	1	
金龍	2019/1/15	2019/6/6		7	7	2	
冠儒	2019/1/15	2019/11/15		4	4	3	
順安	2019/1/23	2019/5/22	2		<u>2</u>	4	
台糖新厝	2019/1/23	2019/1/23		1	<u>1</u>	5	
祝興	2019/3/3	2019/11/27	1	1	2	6	
仙佳	2019/3/27	2019/4/24	1	1	<u>2</u>	7	
水波	2019/5/15	2019/10/23	1	2 1	4	8	
冠妮	2019/9/9	2019/9/9		1	<u>1</u>	9	
暉煌	2019/10/23	2019/10/23	1		1	10	
2019	年腳蹄第一名	種豬總計	16 2	25 5	46		18

Conclusion

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.



