

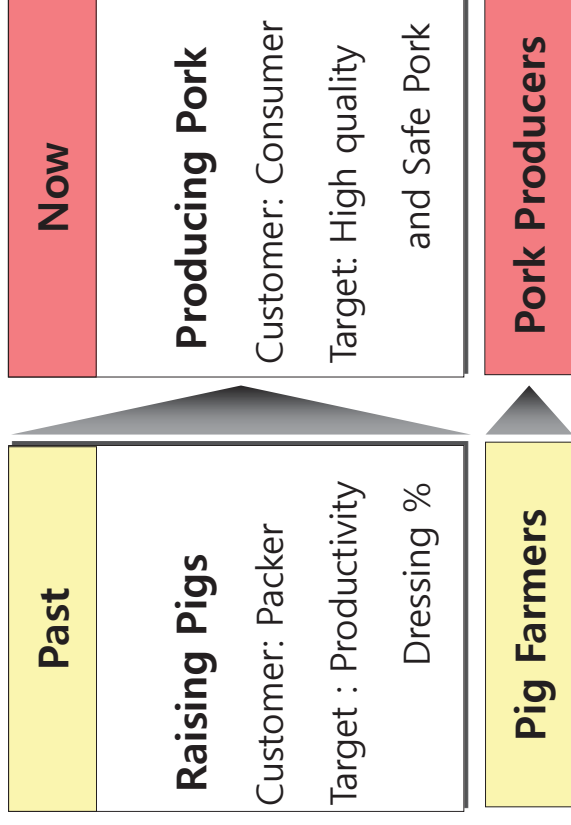
Korea Breeding Pig Industry

– Now and Future

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Introduction: Pork Producer



Introduction: Pork Producer

Pork Producers produce

- High Quality Pork
- With Lower Production Cost
- To consumers

For Maximize Sustainable Profit.

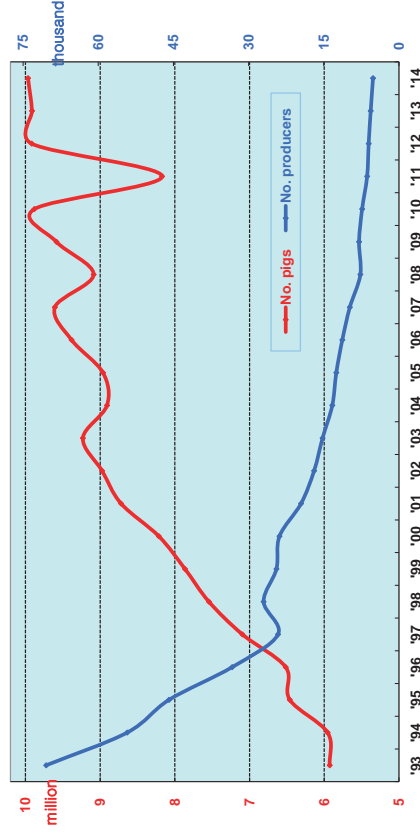
Breeding Pig

Boars

Sows

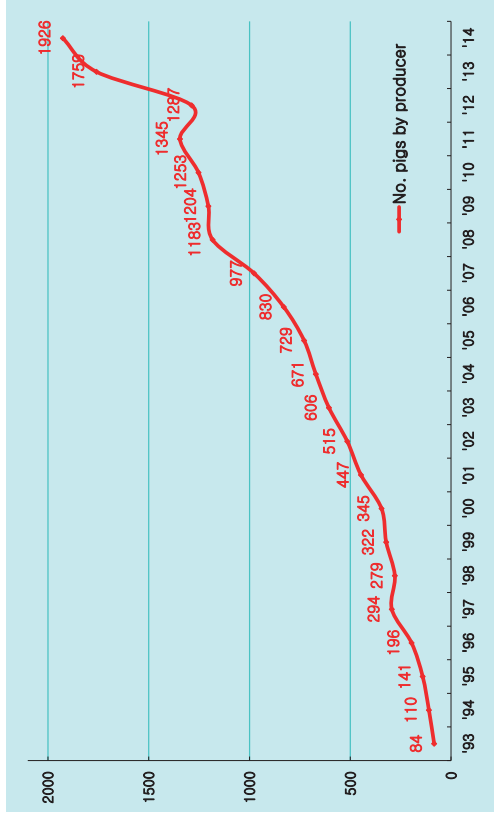
Korea Pig Industry

No. pigs and producers



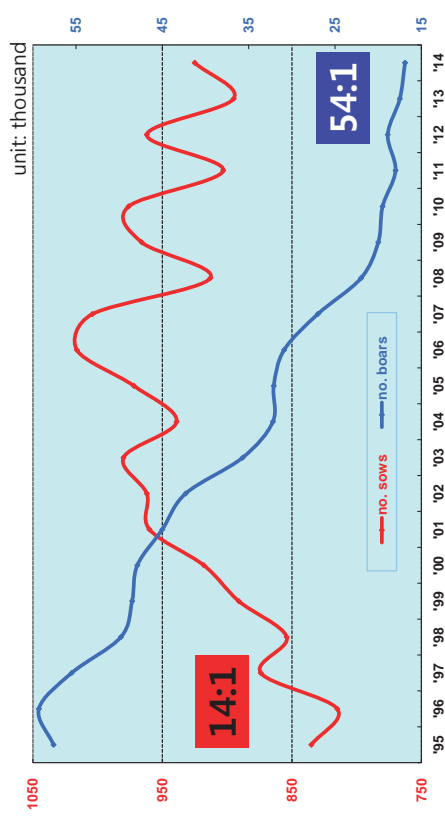
Korea Pig Industry

No. pigs per producers

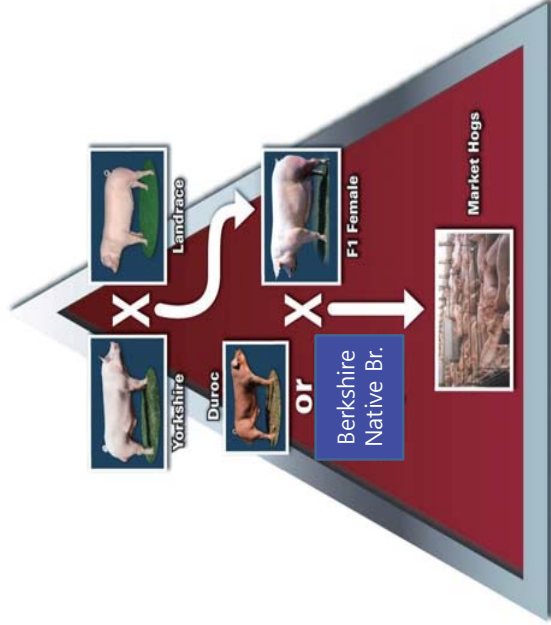


Korea Pig Industry

Sow to Boar ratio by year



Pork Production System



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Table 2. Number of breeding pig farms by their function.

Function	No. Farms	No. sows		
		Dam line	Sire line	Etc.
GGP	21	3,902	890	1,916
GGP+GP	36	20,247	2,060	2
GP	46	19,239	-	3,680
GGP+GP+CH	15	11,522	737	30
GP+CH	9	1,315	846	-
Total	127	56,225	4,533	5,628

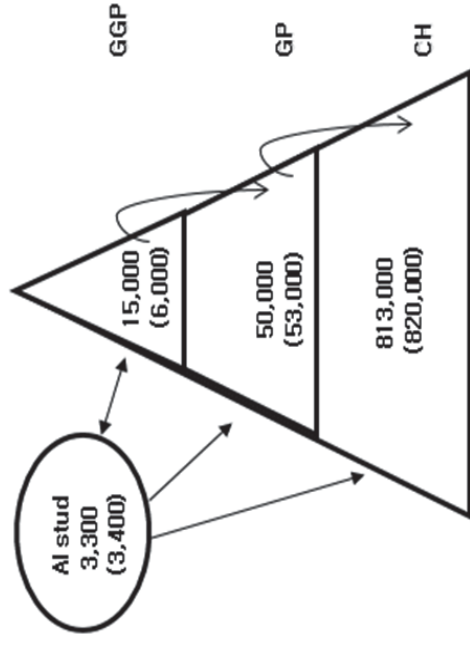
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Table 3. Number of breeding pigs by breed in registered breeding pig producers.

Breed	Land-race	Large White	Duroc	Berkshire	etc.	total
Sows	14,852	41,373	2,197	2,076	5,744	66,242
Boars	666	751	453	104	166	2,140
Total	15,518	42,124	2,650	2,180	5,910	68,382

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Fig. 1. Pork Production Pyramid



Numbers in parenthesis are ideal number estimated

Breeding Pig Industry

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Table 4 Number of AI studs and semen sold by year.

	1998	2002	2004	2008
AI studs	45	50	56	49
Boars	810	2,290	2,682	3,293
Semen sold (thousand)	na ¹	na ¹	3,098	3,583

1: na: not available

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Table 5. The minimum performance requirements for AI boars.

	Days to 90kg or ADG ¹	Backfat Thickness	FCR ¹
Performance Requirements	135days or 1,000g	15mm	2.2

1: Average daily gain and Feed conversion rate during 30-90kg body weight,

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Table 9. Reproduction performance of some GGP in 2009.

	A ¹	B ¹	C ¹	Korea average ³
TB ²	12.2	11.57	14.19	-
NBA ²	11.03	10.80	12.46	10.53
Litters/y/s	2.34	2.43	-	-
NW ²	10.03	9.46	9.39	-

1: three farms from major breeding pig producers in GGP level.

2: total born(TB), number born alive(NBA) and number weaned(NW), respectively.

3: average from 16,808 purebred LW and L sows litters in 2008, data from KAIA

Now and Future

Policies for Breeding pig Industry

- Financial supports for renovating GGP farms
- Core AI studs for sharing superior boars between breeding pig producers
- Developing software for genetic estimation through G-BLUP and Animal Model
- Application of genomic information to implement Genomic Selection.

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Pig Breeding

Improving the Performance

+

Maintaining the improved performance



- Selection
- Breeding Strategy
- Golden Seed Project



- Genetic Network
- Mating System
- Networking

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Networking : Core AI Stud

Building genetic relationships between GGP farms



Connected genetically.
Build the networking system.



Bigger genetic population.
Rapid genetic progress.

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GSP: Improvement

Developing breeding strategy.

Set breeding goals.



Performance testing.

Data collection.



Developing S/W.

Select the best breeding pigs.

Korea Breeding Pig Industry

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Thank you