

해외양돈 연수(스페인, 중국)

정현규



OK JK

20 Top Asian animal feed companies

Source: 2017 Global Animal Feed Production Statistics
Annual compound feed production
(x1000 metric tons)

THAILAND

CP Group 27850
Feedmaster in Thailand, operates in 12 countries

Betaagro Group 3300

CHINA

New Hope Group 18700

Wen's Food Group 12000

East Hope Group 7800

Shuangbaotai Group (Twins Group) 6800

Tangrenshen Group (TRG) 6000

Haid Group 5500

Yantai Group 5000

DuChen Food (Asia) Ltd. 4800

Zhengbang Group 4800

West Hope Group (Sichuan Tequ) 4000

Tongwei Group 3990

JAPAN

JA Zen-Noh 7200

SOUTH KOREA

Nonghyup Feed Inc. 5500

Huim Group 3100

INDIA

Amul 3170

OTHER ASIAN COUNTRIES

Malayan Flour Mills 4000

Joseph Ltd. 3904

San Miguel Pure Foods 3000

스페인 양돈

- 사육두수 규모
- 높은 생산성
- 건조함(하몽 등)의 발달
- 수출 산업
- 번식기술에 대한 연구 발달
- 지역적인 양돈형태 차이
- 협동조합과 계열화업체가 발달

스페인양돈시장

- **Final production Porcine Sector in Spain is 6.000 € millions** (14% of the final agricultural production and 37% of the Final Livestock Production)
- **1st sector in livestock** production in Spain
- **1st europe meat producer** (in 2016 we have overtaken Germany as the third producer)
- **3th world meat producer** (3.895.000 Tm net meat production)
- The number of **animals slaughtered in 2015 was 46.38 million** head (5-7% of increasing in 2016)
- **154% Self-sufficient** (Europe 111%) → Surplus: 1.275.000 Tn
- **1st exporting** country in Europe.
- Consumption of the country: 2.164.000 Tn
- Consumption: **48.33 kg/person**
- Direct jobs: **195.000**
- Indirect jobs: **2.000.000**
- **Farms: 87.556**



스페인 생산성

Comparative with best farms (2015)

SELECTED INDEXES	BEST FARMS OF SPAIN	SPAIN
Age of piglets at weaning	24.26	23.96
Farrowing interval	147.29	147.86
% Preweaning mortality over born alive	11.55	12.59
Number of piglets born died / litter	1.22	1.10
Nr. weaned piglets / litter	12.77	11.34
% Repeated services	11.00	13.58
Number of piglets born alive / litter	14.44	12.98
Days from weaning to last service	7.16	8.54
Fertility (%)	88.99	86.41
Weaned piglets/present sow year	28.97	23.62
Weaned piglets/present sow after first service/year	30.93	25.99
Weaned piglets/present sow after first parity/year	31.65	28.01

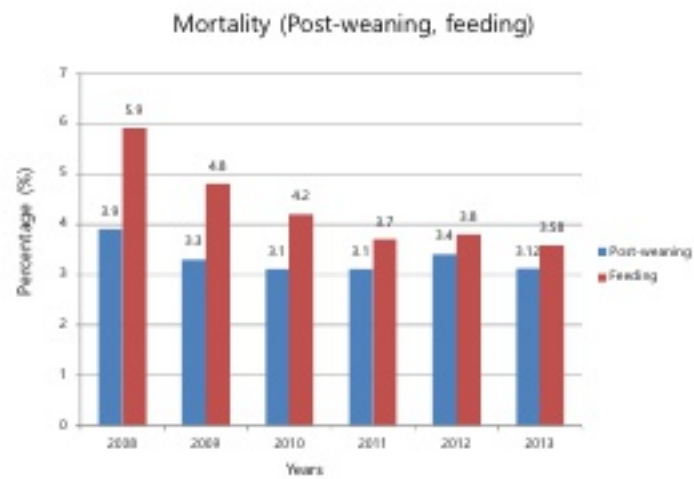
Types of insemination



Country	Sows (n)	AI Sows	Service AI		Post-service AI		Source (2015)
			% of sows	Spts/dose	% of sows	Spts/dose	
USA	5.75	5.20 (90%)	80%	3 bi (total)	20%	2 bi	Knox, Fichtner, Piacillo
Canada	1.3	1.3 (100%)	100%	2.5-3 bi	Some trials	-	Dyck
Brazil	1.6	1.5 (93%)	40%	3 bi	60%	1.5	Bertolozzo
Argentina	0.3	0.36 to 0.38 (50-60%)	98%	3-5 bi	2%	1-1.5 bi	Gibasi, Santa Maria
Chile	0.215	0.39 (92%)	30%	3.5 bi	90%	2 bi	Peralta
Mexico	0.85	0.72 (85%)	88%	3 bi	12%	1.8-2.2 bi	Tapia
Germany	2.05	1.95 (95%)	100%	1.8 bi (total)	-	-	Sonnen
Denmark	3.04	1.0 (34%)	100%	2.2 bi (total)	-	-	Sonnen
Spain	2.35	2.25 (95%)	40%	3 bi	60	1-1.5 bi	De Albe
France	1.0	1.0 (100%)	50%	3 bi	50% (2)	1.5 bi	Collet
Netherlands	1.2	1.18 (98%)	100%	1.2-1.5 bi (total)	Some trials	<1 bi (total)	Kemp, Broekhuijsen
Total	17.7	16.4 (93%)	79.4%	12.4 Sows	24.6%	4.0 Sows	

*Bertolozzo et al. 2015 - Data presented at the 8th International Conference on Sow Semen Presentation, 2015

스페인 이유자돈사, 비육사 폐사율















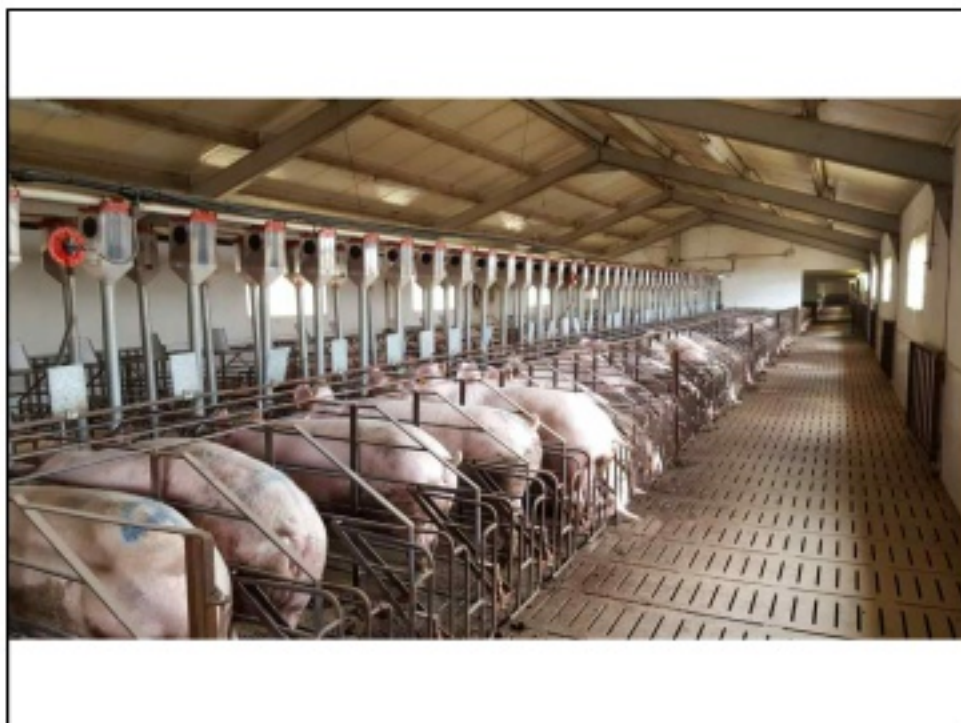
Here are different examples of feeding machines with milk feeders



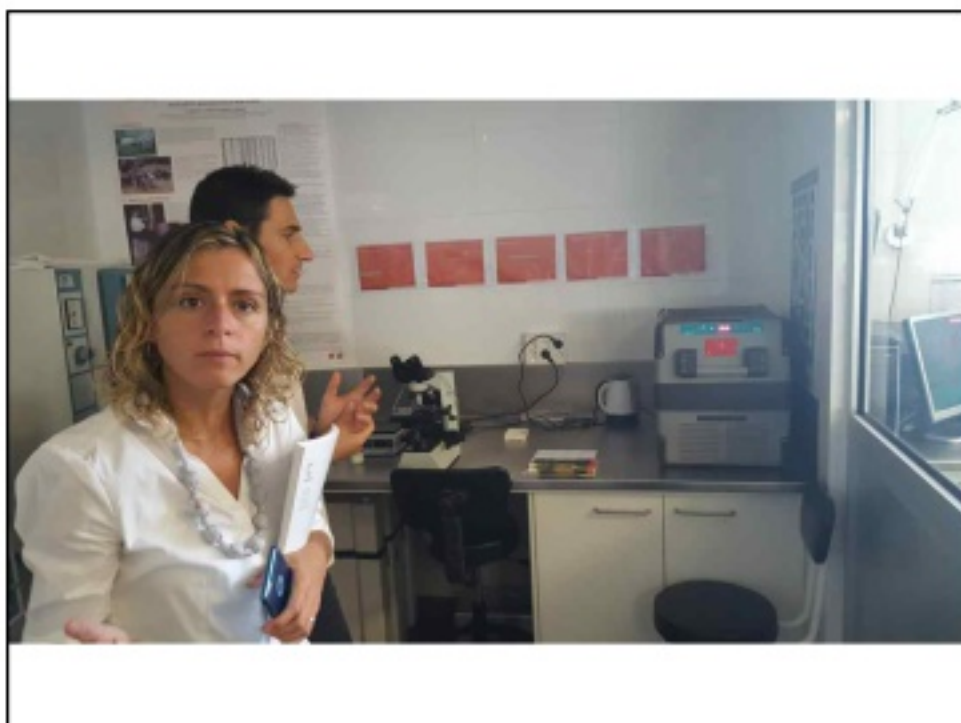
FOTOS: CARGILL





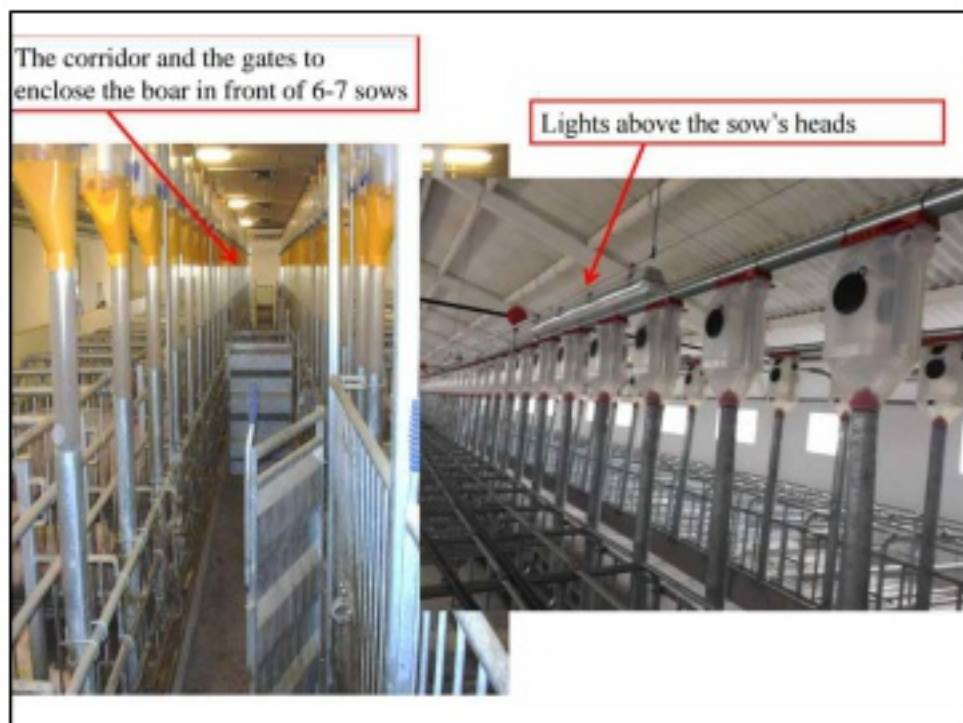












중국 양돈의 현상

- 대규모 양돈기업의 확대: 모돈10만두, 50만두 이상의 기업 양돈장
- 생산성 노력: 기업양돈 MSY25두, 분만율 90%
- 젊은 기술자 육성
- 농장확대후 주식상장
- 종돈, 시설, 기술에 적극적인 투자

중국의 양돈 대기업 확대 중

- Wens
(연간 1700만두 이상 출하, 5000만두 목표 확장)
- CP (모돈60만두, 출하 1500만두 추진)
- Muyuan (모돈46만두, 분만을 90% 이상)
- Baodi
- Chuying
- Zengbang
- COFCO
- New Hope

本周哺乳仔猪损失率	1.12%	奶 情 况
本月哺乳仔猪损失率	4.02%	
本周分娩率	94.12%	
本月累计分娩率	92.18%	
日均母猪耗料量	2.6	
产房温度	25-27	
产房湿度	65-75	
产房通风情况	良好	
猪群健康状况 (良好、正常、非正常)	良好	
需要帮助解决事项	无	







