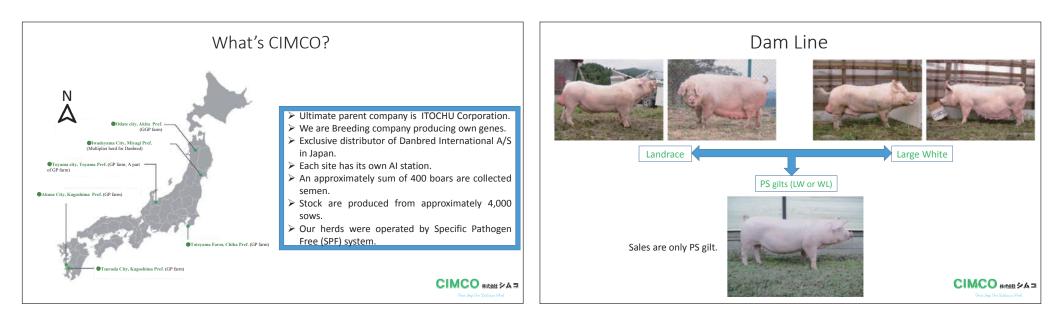
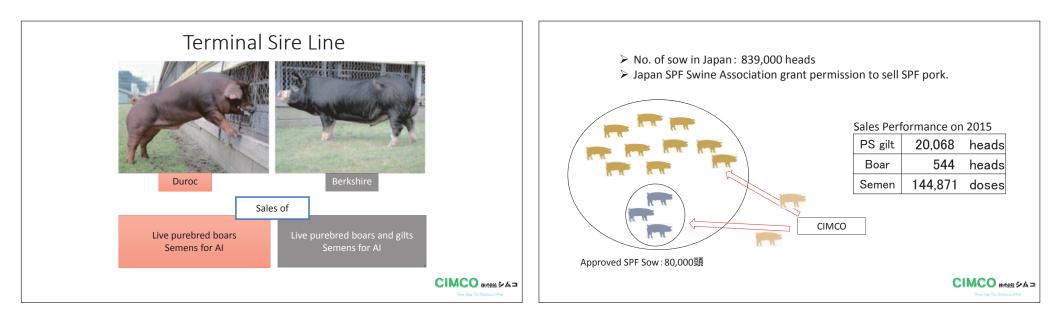


A-29





qualities.

Heat stress

Transport stress

knowledge for transport stress.

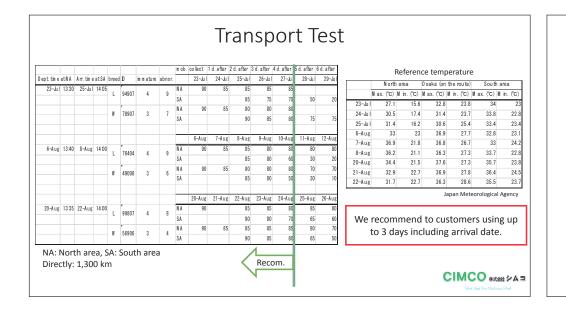
Actually No same characteristics of AI boars.

- ✓ Distortion of the penis.
- ✓ The opening of the urethra is in abnormal place.
- ✓ The membrane does not make stretch the penis.
- \checkmark The trait of being cautious, i.e.
 - no mounting in the presence of humans (recommendation using a Camera).
 - Not leave from pen.

- \checkmark Time to mount depends on boars.
- ✓ Return soon from the collection place.
- \checkmark Different pressure preferences by hands.
- ✓ Not clear distinguishment among white-colored and thick fluid at the ejaculate.
- ✓There are considerably a difference on semen volume and quality.

Transport Test \succ There are some stress for semen • Stress by human error, etc. \succ Since we sell semen from AI Temperature logger were used on and in box. stations, it is necessary to

A northern AI station to a southern AI station on three different occasions.



Influence of Heat Stress with Semen Characteristics

This work was supported by a grant from the Ministry of Agriculture, Forestry and Fisheries of Japan (Development of Breeding Technology for Animal Life Production).

CIMCO #statt >A =

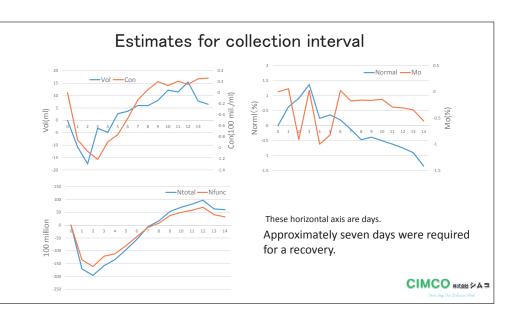
A-31

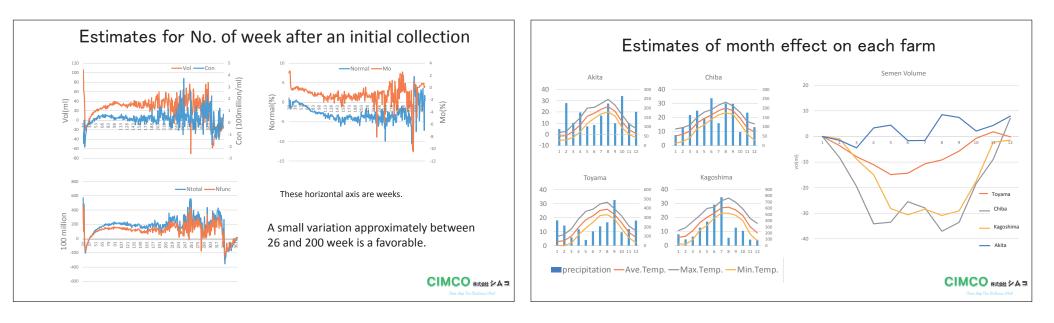
	σ_{p}	Vol	Con	Normal	Мо	Ntotal	Nfunc
Vol	43.00	0.17 ± 0.03	-0.56 ± 0.06	0.00 ± 0.11	0.13 ± 0.09		
Con	1.87		0.22 ± 0.02	-0.29 ± 0.08	-0.18 ± 0.07		
Normal	6.32			0.23 ± 0.04	0.84 ± 0.05		
Мо	4.16				0.17±0.03		
Ntotal	203.78					0.20 ± 0.04	0.95 ± 0.01
Nfunc	169.78						0.16±0.04
diagonal : h	neritability,	above:genetic c	orrelations,				

Traits: Semen volume (Vol, ml), Sperm concentration (Con, 100 million/ml), Normality (Normal, %), Mobility (Mo, %), Total No. of sperm (Ntotal, hundred million)=Vol × Con, No. of functional sperm (Nfunc, 100 million)=Ntotal × Normal × Mo.

Effect: Year, Month, Farm, Collection interval, No. of week after an initial collection, Breeding Values, Permanent environmental effect, residual.

REML procedure using four traits or two traits animal model.





A-32

