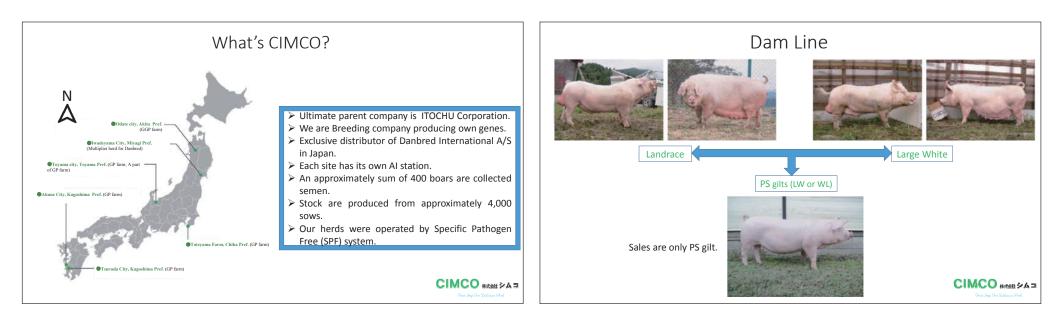
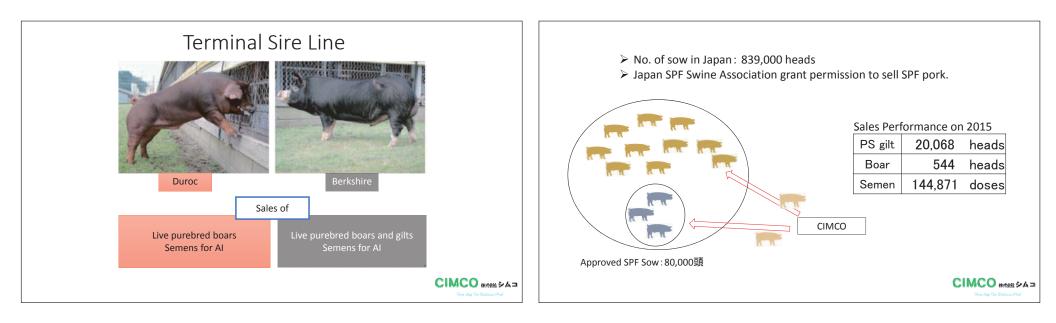


A-29





qualities.

Heat stress

Transport stress

knowledge for transport stress.

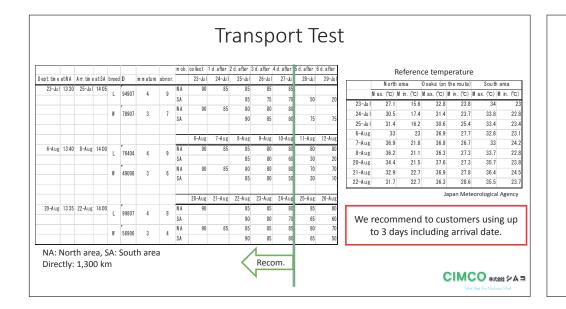
## Actually No same characteristics of AI boars.

- ✓ 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).

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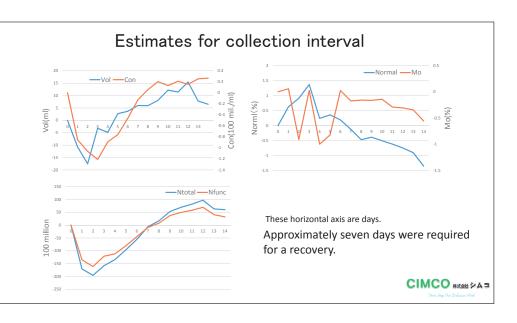
A-31

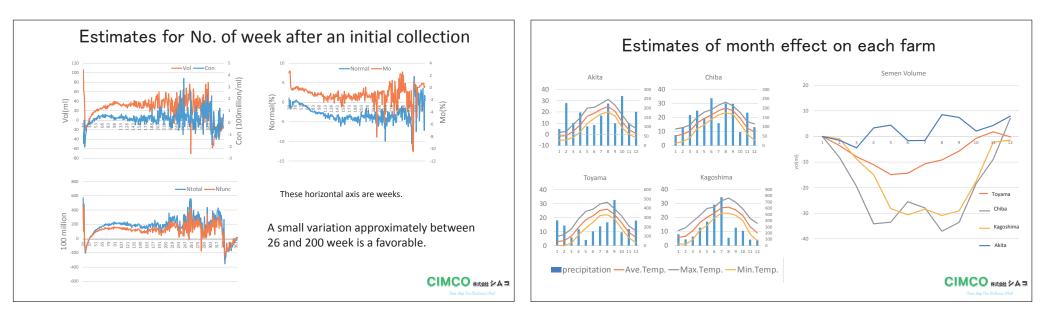
	$\sigma_{p}$	Vol	Con	Normal	Мо	Ntotal	Nfunc
Vol	43.00	$0.17 \pm 0.03$	$-0.56 \pm 0.06$	$0.00 \pm 0.11$	$0.13 \pm 0.09$		
Con	1.87		$0.22 \pm 0.02$	$-0.29 \pm 0.08$	$-0.18 \pm 0.07$		
Normal	6.32			$0.23 \pm 0.04$	$0.84 \pm 0.05$		
Мо	4.16				0.17±0.03		
Ntotal	203.78					$0.20 \pm 0.04$	$0.95 \pm 0.01$
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

