

OvuGel[®] and Single Fixed-Time Insemination of Weaned Sows

**Deer Run Farms, Pike Pig Systems
and JBS United Animal Health**

**ADSA-ASAS Midwest Meeting
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Product Labeling

- **INDICATIONS FOR USE:**

- For the synchronization of time of insemination in weaned sows to facilitate a single fixed-time artificial insemination.
- Not approved for use in gilts. Safety and effectiveness have not been evaluated in these animals.

- **DESCRIPTION:**

- OvuGel[®] is a thin, clear to slightly hazy gel.
- Each mL of OvuGel[®] contains 100 mcg of triptorelin (as triptorelin acetate) for intravaginal administration.

OvuGel[®] Breeding Program

Importance of Timing

OvuGel[®] AI

NURSING LITTER	WEAN	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
	DAY 0	DAY 1		DAY 2		DAY 3		DAY 4		DAY 5		DAY 6		DAY 7		DAY 8	
	7:00 AM																
	0 HOURS POST WEANING								96 HOURS POST WEANING		120 HOURS POST WEANING						

Serviceability Results

Variable	Control	OvuGel[®]
Weaned	179	180
Served	163	180
Mated Day 3	1	.
Mated Day 4	104	0
Mated Day 5	42	180
Mated Day 6	16	.
% Holdovers	8.9%	0%
Mated Late	7	.
Culled from Wean	9	.
Average WSI	5.1	5

Pregnancy Check Results

Normal Weaners	Control	OvuGel[®]
Weaned	179	180
Mated by 7 Days	163	180
Preg-Checked Positive	158	158
% of Mated	96.9	87.8
% of Total Weaned	88.3	87.8

Farrowing Results

Normal Weaners	Control	OvuGel[®]
Weaned	179	180
Farrowed (123 Days)	151	149
% of Weaned	84.5	82.8
% of Mated (<7 Days)	92.6	82.8
Holdovers (WEI>7 Days)	16	.
% of Total Weaned	3.9	.
% + Holdovers	87.7	82.8

Litter Size Results

Normal Weaners	Control	OvuGel[®]
Farrowed (123 Days)	151	149
Total Pigs	2144	2160
Average Total Born	14.2	14.5
Average Born Alive	13.4	13.7
Holdovers	6 / 86%	.
Average Born Alive	13.0	.
Additional Pigs	78	.

OvuGel[®] Sow Results

Treated Sows	Estrus +	No Heat
Detected	159	21
Farrow Rate	88.7	38.1
Sows Farrowed	141	8
Average Total Born	14.5	13.3
Average Born Alive	13.7	12.6

Farrowing Rate By Week

Week	Control	OvuGel[®]
11	85.7	86.7
12	88.5	90
13	82.8	83.3
14	68.8	90
15	85.3	66.7
16	86.7	66.7

(trt x wk, $P < 0.04$)

Non-Productive Day Results

Sow Type	Control	OvuGel[®]
Weaned	179	180
Recycled 21-24 Days	3	5
Preg-Checked Negative	10	17
Removed	2	1
NIP	0	7
Aborted	2	1
Farrowed Late	6	.
Average NPDs/WS	9.8	11.6

Summary

- Estrus response is key - even with OvuGel®
- Equal success in total pigs
 - Total born
 - Born alive
- More weaned sows farrowing on one day
- “Breeding eligible” weaned sows cause variation in responses
- Continue heat checking to find non-responders

Implications to Production System

- Spread in weaning age due to service day, gestation length and flow
- Changes in fecundity by breed type
- Equal performance with shorter gestation lengths equal more lactation days in room
- Older pigs equate to more pounds
- Heavier wean weights equal faster turns or more weight marketed
- Limiting semen doses allows redistribution of skilled labor