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Productionstrategy.pdf

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**Farrowing Strategy**

**Change-Belstra Farms**

- Needed to increase piglet weaning age
- Minimize age spread between nursery and finisher groups
- Capture the value of 2-2 ½ lb piglets due to high born alive
- Provide a better opportunity for immune stabilization in nursery/finish population
- Increase feed intake in lactation
- Minimized cross-fostering after 24 hours post birth
- Eliminated bump weaning
- Implemented a modified McREBEL

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**McREBEL**

**Management Changes to Reduce Exposure to Bacteria and Eliminate Losses**

- Underlying Philosophy: to optimize growth of suckling pigs one must minimize interventions and maximize supportive care

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**McREBEL Procedures**

- McREBEL objective: to maximize the number of piglets remaining on their birth mother and to maximize the number of piglets remaining on the colostrum mother
- Do not cross-foster after 24 hours of age
  - Move the min. number just to fill functional teats
  - Do not cross-foster to create uniform size or single gender
  - Smallest pigs have lowest priority and are left by mom as "extras" if more pigs than functional teats

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Information for this power point was gleaned from:
1. The article “Management Changes to Reduce Exposure to Bacteria and Eliminate Losses” by M. McCaw
2. A case report: “Effect of reducing cross-fostering at birth on piglet mortality and performance during an acute outbreak of porcine reproductive and respiratory syndrome” by Monte B. McCaw, DMV, PhD.
3. McREBEL Management System (Strictly limited cross-fostering) for Controlling PRRS Associated Disease Losses in Suckling and Nursery Pigs by M.B. McCaw, A. Holtcamp, J. Roberts, P. Davies
Belstra Deck Strategy
- 1 deck/12 farrowing stalls
- 8 cups/room of 24 stalls
- Cup and deck placement is on the fan end of the room for warmth
- Pre-Heat deck before placement of pigs
- Split nurse and foster all litters at day 1-foster all sows with average born alive for that day
- Day 3-4 place compromised pigs in the deck
- Day 12-14 place compromised pigs in the deck
- Start creep feeding at 7-10 days with a snap down pan
Cost of Rescue Deck Technology

- $1.00 per weaned pig
- $.75-.90¢/pig in milk replacer
- .10¢/pig in equipment cost depreciated over 4 years

Summary
$29,560.00/year

Decreased Mean To Estrus Interval

- .8 Day WEI reduction due to Strategy Change
- .8 x 2.41 lts/y = 1.93 per sow increase in productive sow days
- 1.93 days x 1100 sows = 2123 productive days gained ($1.00/day non-productive cost)

Summary
320 productive days/sow

- 2123 x 320 = 6.63 sows that are more productive
- 6.63 sows x 26.9 PSY = 178 piglets

Summary
178 x $32.00 = $5,696.00

Average weaning weight increase

- Increase of 2.6lb with new strategy
- Think in terms of weaned pig contract
  - 13lb/pig = $32.00 base
  - .50¢/lb for every pound over 13lbs
  - increased value of $1.10/weaned pig

Summary
28,000 (95% sold) x $1.10 = $30,800.00

Reduced pre-wean mortality

- Reduction of 2.3%
- .29 pigs/litter increase
  - 12.5 BA x 2.3% = .29 pl/l
- 2651 litters/year x .29 = 769 additional pigs

Summary
769 x $32.00 = $24,608.00

Nursery Mortality

- Reduced from 5% to 1.5%
- Net reduction 3.5%
- 29,590 pigs weaned x 3.5% = 1,036 pigs saved

Summary
1,036 x $32.00 = $33,152.00
Iroquois Valley Nursery
BIVI Health Management Center
Percent Mortality

Individ.:
c1: 4.81535
ucl: 8.84787
lcl: 0.782835
* Rule violation

Range:
c1: 1.51623
ucl: 4.95395
lcl: 0
Subgrp Size 1

Management Changes in the Farrowing

Total Value of Strategy Change
$94,256.00