Field Research: SQM® Iron improves stillborn rate

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Commercial Implementation

An mid-sized swine integrator (top 25 by sow inventory) initiated an in-field evaluation after identifying a significant anemia challenge within its sow herd. Ferrous sulfate was replaced with SQM® Iron at an inclusion rate of 125 ppm, then tracked herd performance over time.

The process control chart shown here illustrates stillborn percentage before and after the dietary transition to SQM Iron. The data includes 13 weeks prior to implementation and 21 weeks following the change. The chart format, commonly used in manufacturing and systems analysis, evaluates variability over time and helps identify meaningful process changes.

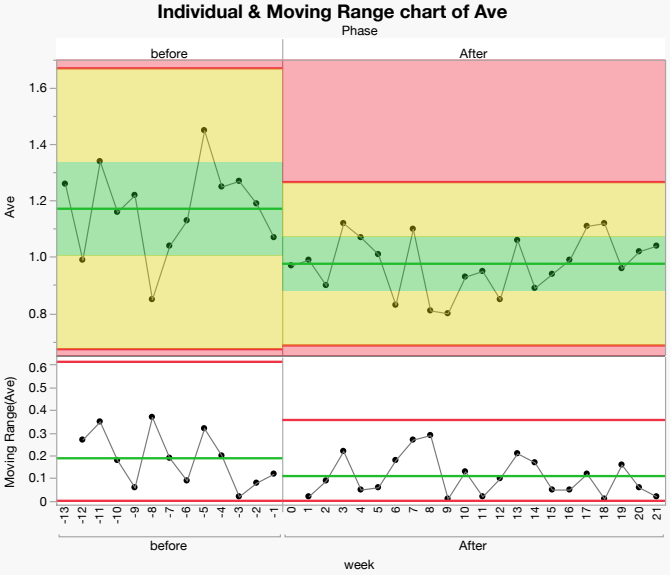
Key Findings

- A measurable step-change in Stillborn variation
- 0.2 fewer stillborn pigs per litter
- Weekly averages remained closer to the desired operating range

From the lab to the field

This customer-initiated field project is consistent with prior university research evaluating SQM Iron supplementation in gestating sows. Past work has resulted in:

- Reduced anemia prevalence in piglets at birth.
- Tended to improve litter birth weight.
- Increased the percentage of pigs weaned.
- More than doubled sow serum ferritin concentrations (higher iron storage).



Ave Limit Summaries

Points plotted	Phase	LCL	Avg	UCL	Limits Sigma	Subgroup Size
Individual	before	0.672267	1.170769	1.669272	Moving Range	1
Individual	After	0.685532	0.975455	1.265377	Moving Range	1
Moving Range	before	0	0.1875	0.612475	Moving Range	1
Moving Range	After	0	0.109048	0.356208	Moving Range	1

In the Chart:

- **Green Zones** represent the ideal operating range
- **Yellow Zones** indicate performance rare, but normal variation
- **Red Zones** indicate performance well outside of the historical norm, and warrants further investigation

Why SQM® Iron?

SQM Iron is designed to support:

- Improved sow iron status during gestation
- Enhanced fetal iron transfer
- Stronger piglet vitality and survivability
- Greater consistency in farrowing outcomes
- Improved weaning performance

By supporting iron status in both sows and developing litters, SQM Iron helps producers target stronger starts and better downstream performance.