



DNA GENETICS RESEARCH TRIAL

SID Lysine Requirement of DNA L241

DATE COMPLETED

August 2025

COLLABORATORS

Iowa State University

OBJECTIVE

To determine the optimal standardized ileal digestible (SID) lysine requirement that best supports lactation, litter performance, and subsequent reproductive success in modern, high-producing sows (DNA Line 241).

TRIAL OVERVIEW

1,379 DNA Line 241 parity 1-3 sows allocated to 5 treatments: 0.65, 0.80, 0.95, 1.10, or 1.25% SID lysine. Sows were offered feed ad libitum.

KEY TAKEAWAYS

Lactation ADFI, sow lactation weight loss, piglet wean weight, and wean-to-estrus interval were optimized at 0.95% SID Lysine (equivalent to 63 g SID Lysine/sow/day).

PRODUCER IMPLICATIONS

Producers should target feeding ~63 g SID Lysine/sow/day under normal input conditions. The data provided will allow individual producers to perform factorial calculations to determine optimal economics for their situation, especially when feed inputs change. See figures 5 & 6 as examples.

PRIMARY PERFORMANCE DATA

FIGURE 1

SID Lysine Requirement of Line 241 - ADFI, LBS.
LBS. of Feed Per Day

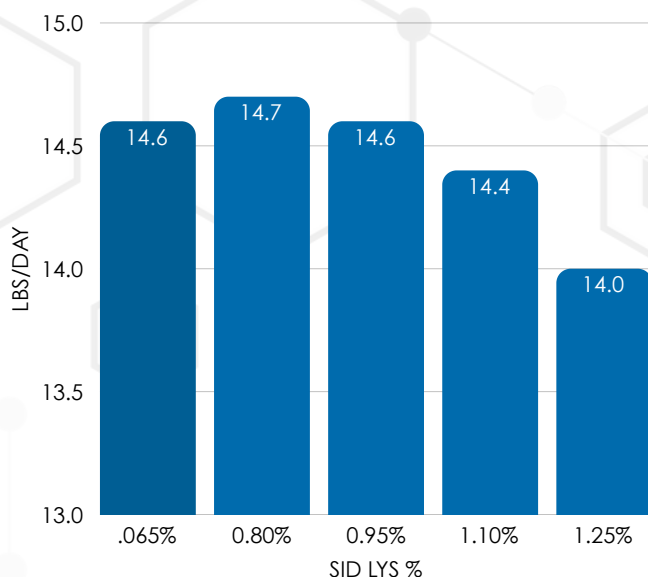
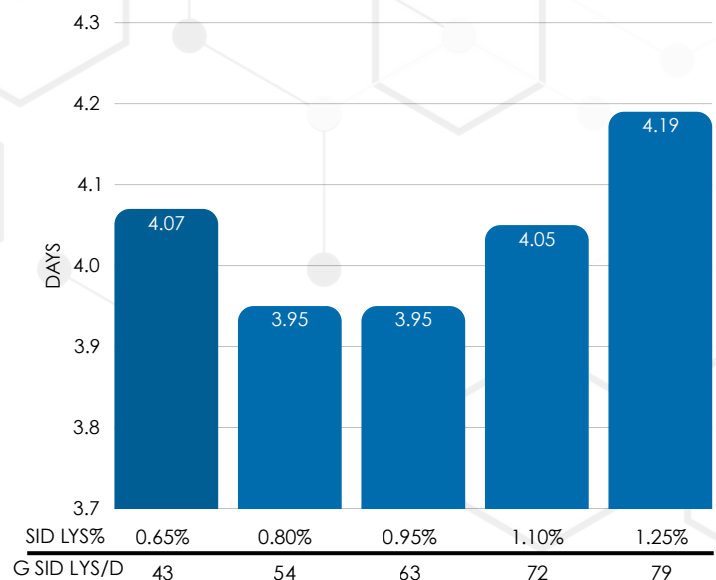


FIGURE 2

SID Lysine Requirement of Line 241 - Wean to
Estrus Interval (WEI)



For more information on this study, please contact your National Account Leader.

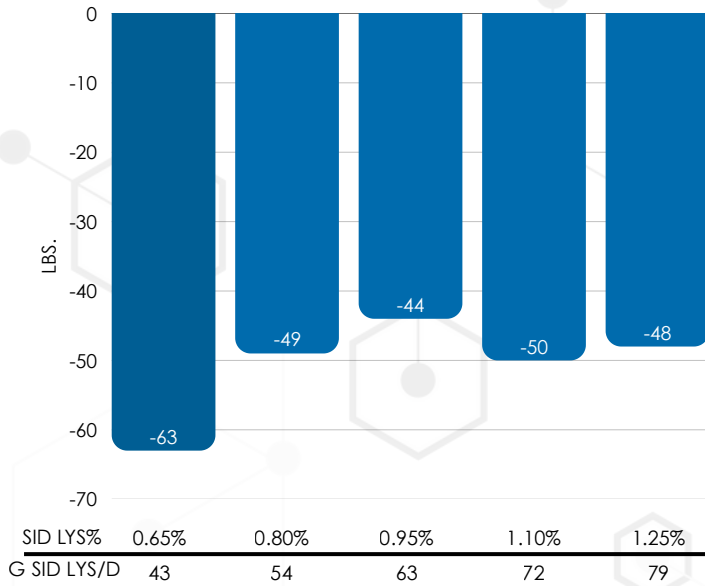


DNASwineGenetics.com

PRIMARY PERFORMANCE DATA

FIGURE 3

Lactation Sow Weight Change*



*Sow weight loss includes litter and placenta

FIGURE 4

SID Lysine Requirement of Line 241 - Average Wean Weight, LBS.

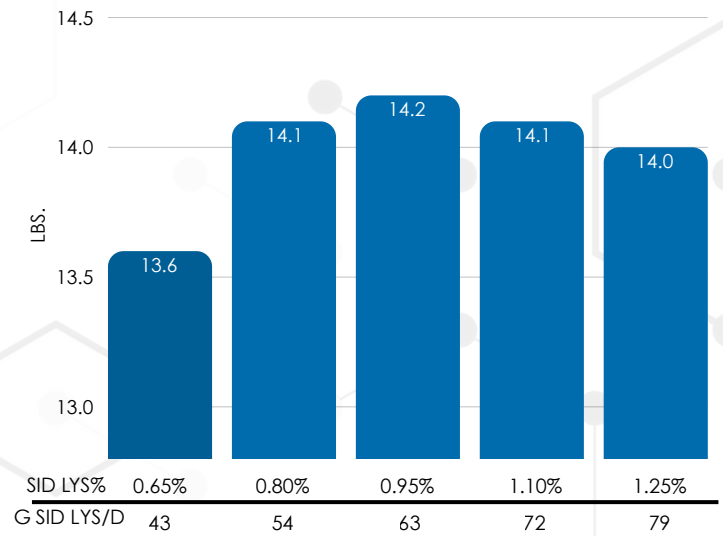


FIGURE 5

Revenue - Feed Cost, \$ Litter @ \$200 SBM, \$4/BU Corn

(Litter growth valued at \$0.90/lb, corn cost \$4.00/bu, nonproductive sow cost @ \$4/day)

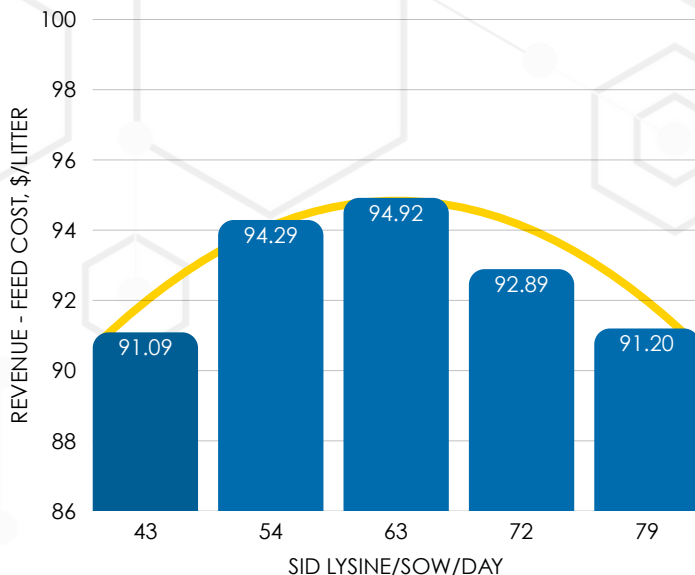
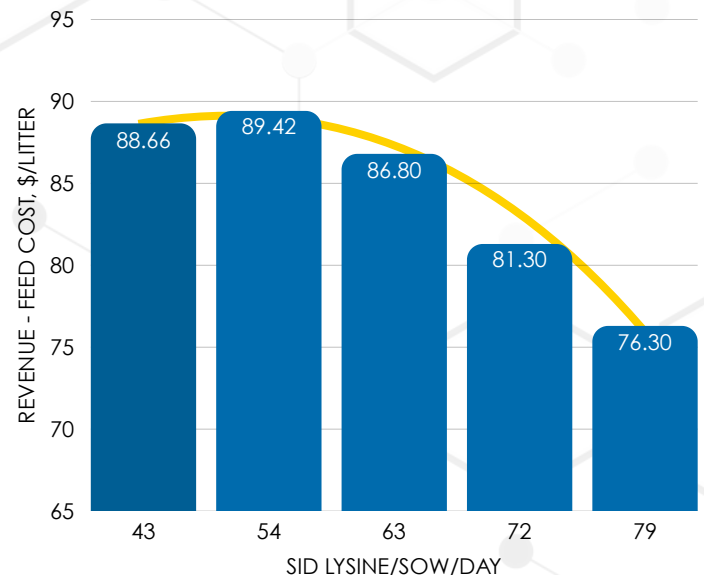


FIGURE 6

Revenue - Feed Cost, \$ Litter @ \$500 SBM, \$4/BU Corn

(Litter growth valued at \$0.90/lb, corn cost \$4.00/bu, nonproductive sow cost @ \$4/day)



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