

FIELD DEMONSTRATION SUMMARY

Furst Strike Direct™ improved ADG and survival of pigs in large scale commercial nursery demonstration.



FURSTSTRIKE
DIRECT™

BACKGROUND

McNess developed FurstSTRIKE Direct (FSD) as a water-soluble nutritional supplement designed to support pig performance and health, particularly during the critical nursery period. Recent studies on FurstSTRIKE Direct have demonstrated positive effects on pig performance, notably improving survivability and feed efficiency both under health challenges and healthy production conditions.¹⁻³

A field demonstration from a McNess customer demonstrated the benefits of supplementing FurstSTRIKE Direct via drinking water in a healthy herd, as well as showed large improvement in Average Daily Gain (ADG) and weight at end of nursery, with some additional improvement in livability.

PIGS AND STUDY DESIGN

- 40,434 DNA-sired weaned pigs (initial Body Weight [BW]: 12.91 ± 0.86 lbs) sourced from 2 healthy sow herds.
- 3 nursery sites were utilized for the field study.

TREATMENTS

Treatment 1

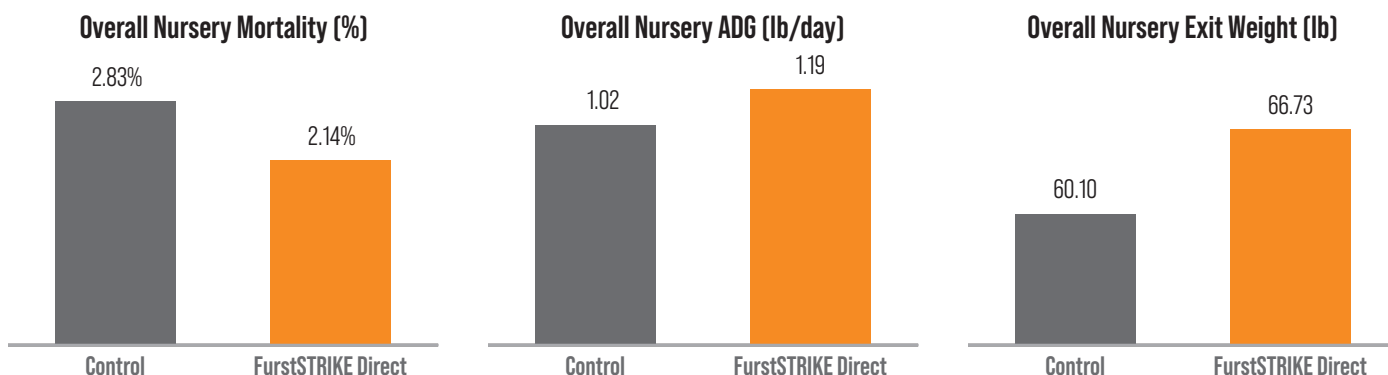
- Control (farm water) - 30,301 pigs

Treatment 2

- FurstSTRIKE Direct via drinking water for 5 days at placement - 10,133 pigs
- Stock solution: mix 16 oz (1 bottle) of FSD in 5 gallons of water; metered 1:128

RESULTS

FIGURE 1: Overall effect of FurstSTRIKE Direct on mortality, ADG, and exit body weight of nursery phase



CONCLUSIONS

FurstSTRIKE Direct

- Improved ADG by 17%
- Increased exit body weight by over 6 lbs
- Maintained Feed Conversion Ratio (FCR) at 1.6
- Reduced nursery mortality by 25%

ROI CALCULATION

- Cost of FSD = \$0.20/pig
- Cost of extra feed = \$1.38/pig (+6.63 lbs weight x 1.6 FCR = 10.61 more lbs of feed x \$0.13 = \$1.38)
- Profit from heavier pigs = 6.63 lbs x \$0.75 = \$4.97/pig
- Reduced mortality \$ = 0.7% x \$75 = \$0.525/pig
- Total Cost = \$0.20 + \$1.38 = \$1.58
- Total Profit = \$5.50

ROI = 3.5 to 1



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¹ Kwon, W. B., G. A. Hartsook, P. Aparachita, K. T. Soltwedel, R. L. Fischer and F. B. Sandberg. 2024. Effectiveness of using a novel water-soluble nutritional supplement (FurstSTRIKE Direct) on recovery and survivability of grow-finisher pigs under a lateral influenza and PRRS 144 LTC challenge. In: *Proceedings of 50th Allen D. Leman Swine Conference*, St. Paul, MN.

² Sandberg, F. B., K. T. Soltwedel, R. L. Fischer and W. B. Kwon. 2023. Effects of FurstSTRIKE Direct on mortality and injectable treatments in nursery pigs. In: *Proceedings of the AASV 54th Annual Meeting*, Denver, CO.

³ Sandberg F. B., S. J. England, K. T. Soltwedel, P. Aparachita, R. L. Fischer, G. A. Hartsook and W. B. Kwon. 2024. Impact of a nutritional water supplement on nursery mortality as determined by different statistical methods and consequences for on-farm application of technology. *Journal of Animal Science* 102 [E-Suppl. 2]:9-10.