

RESEARCH SUMMARY

FurstSTRIKE Direct™ large scale wean-to-finish trial.



BACKGROUND

Objective of this trial was to evaluate if running FurstSTRIKE Direct (FSD) in the water at placement post-wean (day 0) for 7 – 10 consecutive days will improve pig survivability, reduce treats and increase Total % Full Value pigs marketed.

MATERIALS, METHODS AND ANALYSIS

An extensive study was conducted from April 2023 until March 2025 where pigs were followed from weaning to market. A total of 80,809 pigs were placed on test across 31 barns. Barns were assigned within sow farm flow to remove sow farm effects. Within a production week, barns were either assigned to Control (regular management practices), or FSD (regular management practices in conjunction with FSD supplemented via drinking water on arrival).

- CONTROL= 16 barns
- FSD= 15 barns (1:128 dilution) at placement post-wean
- Porcine Reproductive and Respiratory Syndrome Virus (PRRSV) Stable flows

TABLE 1:
Overall Wean to Finish results

ADG: Average Daily Gain
FCR: Feed Conversion Ratio
ADFI: Average Daily Feed Intake

Parameter	Control (SEM)	FurstSTRIKE Direct (SEM)	P-Value
Barns	15	14	
Total Pigs	39,495	36,092	
Average Wt In	12.69 [0.3]	12.41 [0.3]	0.58
Days On Feed	187 [2.29]	185.1 [2.37]	0.56
Average Market Weight	287.98 [2.01]	290.24 [2.09]	0.44
Carcass Weight	217.7 [1.63]	219.58 [1.69]	0.42
Full Value ADG	1.60^c (0.02)	1.66^d (0.02)	0.06
Full Value FCR	2.71^a (0.02)	2.63^b (0.02)	0.01
Full Value ADFI	4.34	4.37	
CV	7.48 [0.24]	7.07 [0.24]	0.24
Full Value Sold%	88.74^a (0.94)	92.21^b (0.97)	0.02
Mortality%	8.66^a (0.94)	5.32^b (0.97)	0.02
Cull%	2.20 [0.24]	1.98 [0.24]	0.52
Medication Cost	2.88 [0.37]	2.57 [0.38]	0.56

RESULTS

- FSD improved ADG by 3.8% (0.06 lbs)
- FSD improved FCR by 0.08 (-3%)
- FSD pigs were on feed 2 less days; pigs weighed 2.3 lbs heavier than Control
- FSD improved full value pigs sold by 3.47% (P < 0.05)
- FSD reduced medication cost per pig by \$0.31/pig (-11%)

ECONOMICS & CONCLUSIONS

FSD Cost:

7.2 bottles of FSD/barn (avg)
Cost = \$534.00 or **\$0.21/pig**
[supplemented for 7 days]

FSD Gains:

- 3.47%** improvement in full value pigs
= **\$5.21/pig** additional net margin
 - 1% point in full value = \$1.50/pig produced net margin improvement (Ketchum, SMS)
- 0.08 FCR Improvement = 20 lb**
feed savings @ \$0.11/lb =
\$2.17 savings per pig

FSD Net Margin Improvement:

\$7.38/pig - \$0.21/pig = ROI 35:1

FIGURE 1:

Variability in full value pigs on FSD was significantly less variable ($P < 0.05$)

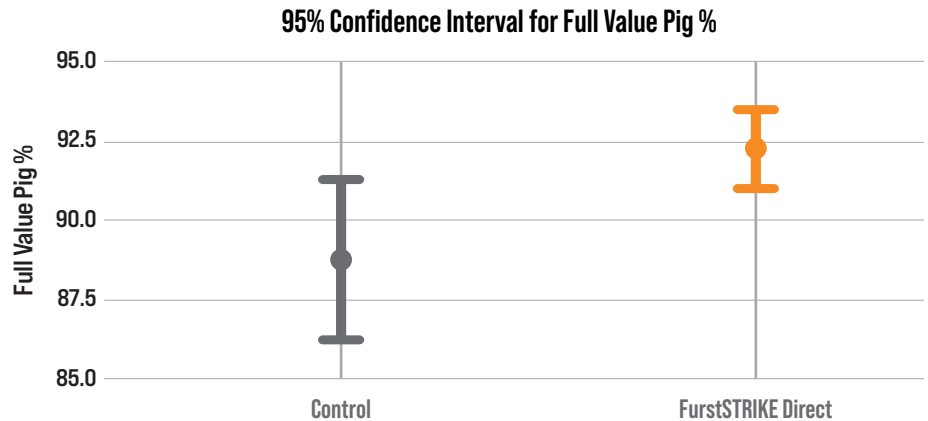
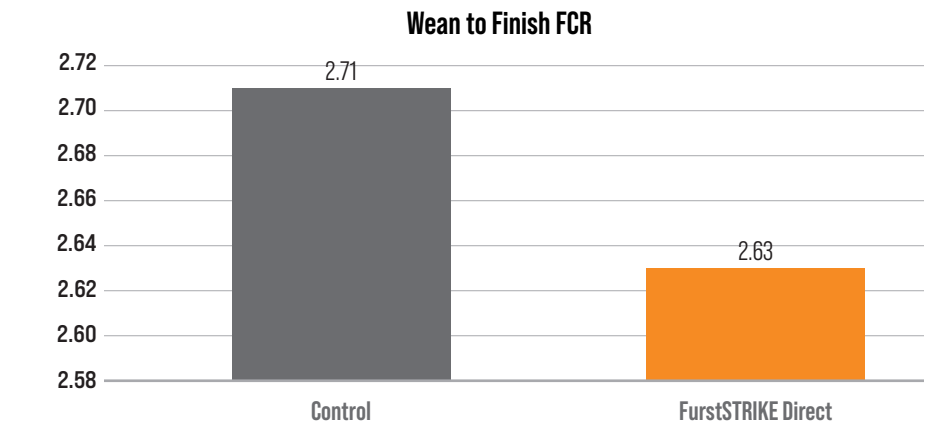


FIGURE 2:

FSD significantly improved FCR from weaning to market ($P < 0.01$)



Data was analyzed using Minitab statistical software, and the Grubb's method used to screen the data for outliers by a formal statistical method as is particularly necessary with live production data. The GLM function in Minitab was used to analyze for differences, with $P < 0.10$ a trend, $P < 0.05$ statistically significant and $P < 0.01$ as highly significant.



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