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Trustworthy | Respectful | Enjoy the Journey

What is the Data Telling Us: Trends Over the Last Decade in the Swine Industry

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MetaFarms

ABOUT MetaFarms

Our Values

- ✓ Trustworthy
- ✓ Respectful
- ✓ Enjoy the Journey

Our Purpose

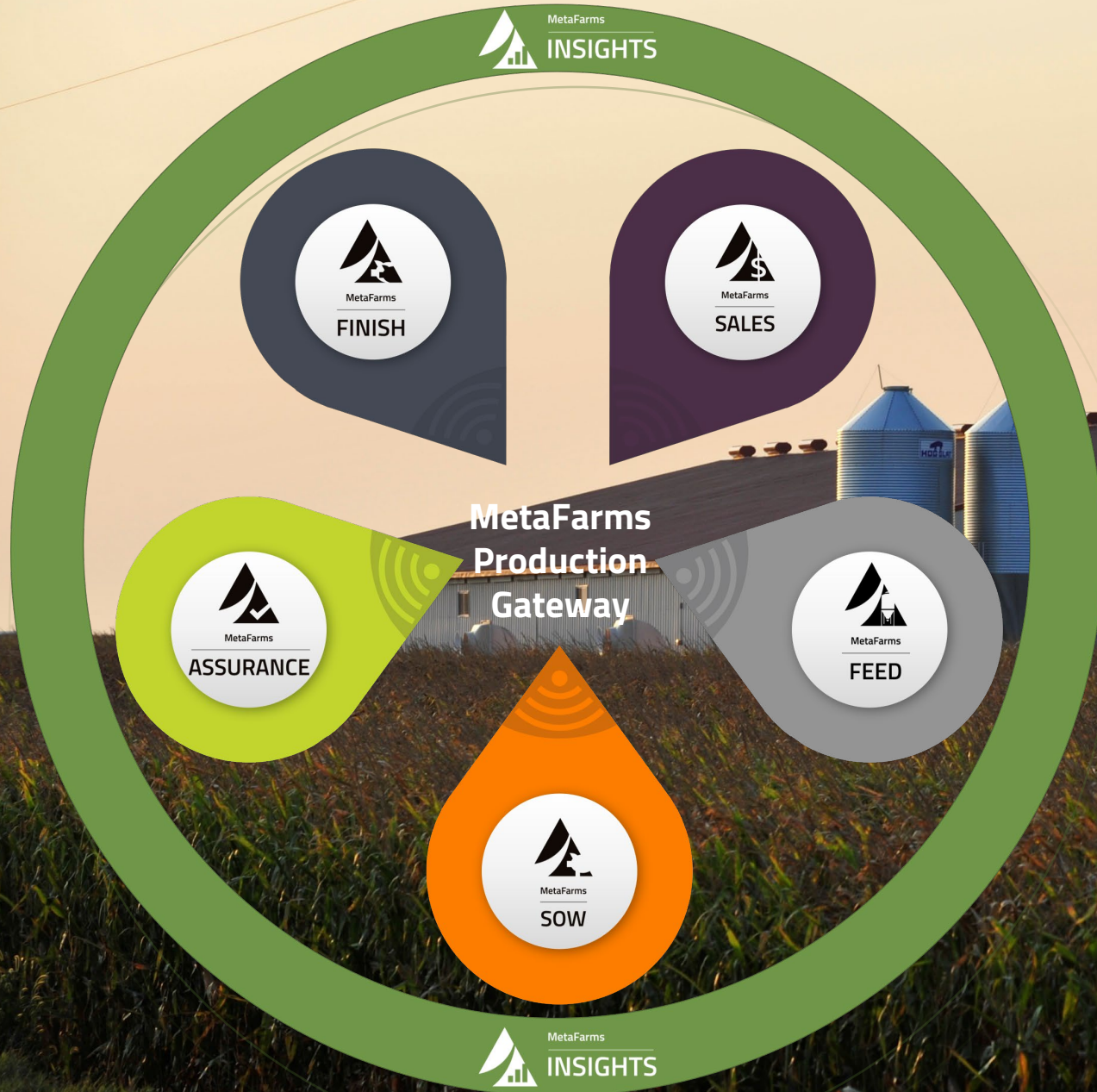
Grow a great company that is respect and trusted



MetaFarms Ag Platform (MAP)

Growth through connection

The MetaFarms Ag Platform value comes not only from its own features, but from its ability to bind external tools, data, and processes and orchestrate them in a common mission



Core Solutions

A comprehensive set of solutions for every phase of production that integrate with one another.



Production Gateway

Integrations with industry affiliates, hardware and software partners delivers additional value to the producer, allows real time management and reduces data entry.



Analytic Insights

A wholistic picture of your entire production cycle from seed to meat. Delivers a single source of truth to your entire organization.



Customer Base

- 50+% Powerhouse Producers
- Top 4 Canadian Producers
- Global customer base (US, CAN, AUS, NZ, PH)
- Industry Leading Tenure

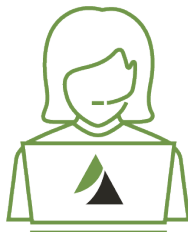
- Serving the pork industry for 20 years
- Commercial Enterprise Grade Platform
- SMS Acquisition in Oct 2019



Industry Affiliates

Collaboration and Integrations w/ top:

- Vet Clinics
- Nutrition
- Genetics
- Pharma
- Banks
- Trade Organizations
- Software Platforms



Support

All US based support, implementation and development



MetaFarms

ASSURANCE

Compliance, assessments & certifications for quality mgmt



MetaFarms

SOW

1.2+ mm active Sows
2.3+ mm reporting



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FINISH

46mm annual pigs started



MetaFarms

SALES

36mm annual marketed pigs



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FEED

1.2mm annual feed deliveries



MetaFarms

FLOCK

Broilers, Egg Layer

Production Gateway

MetaFarms

INSIGHTS

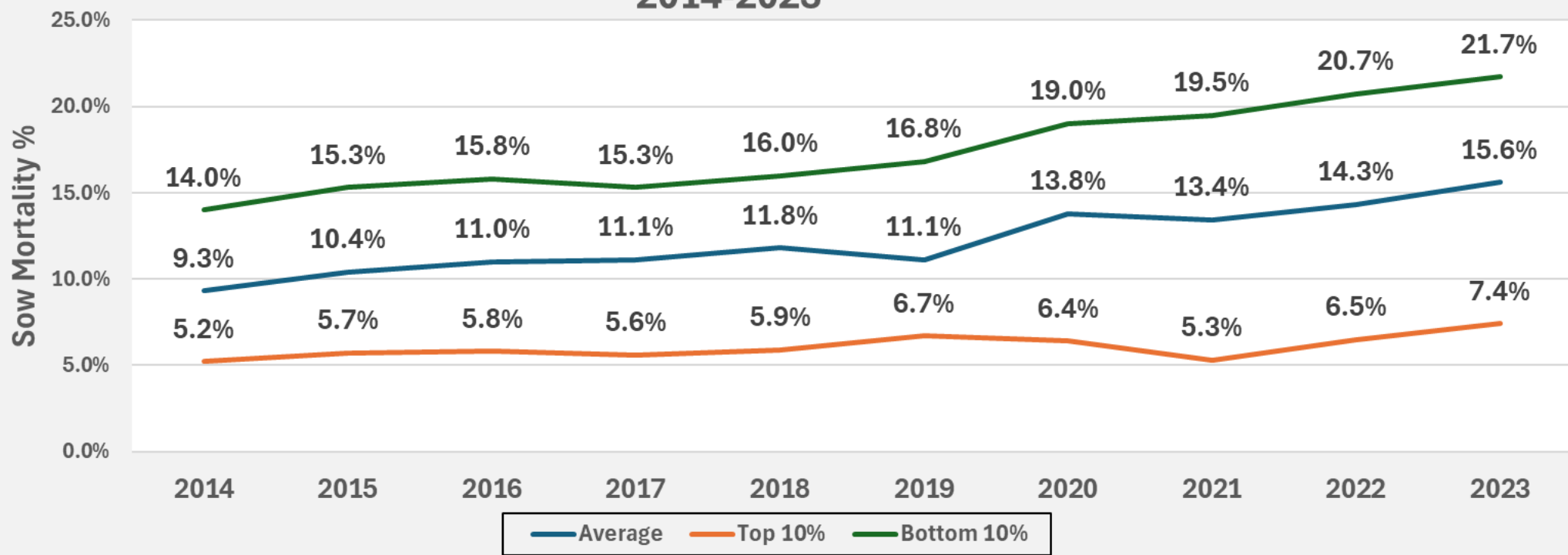




Sow Trends

Sow Death Loss%

2014-2023



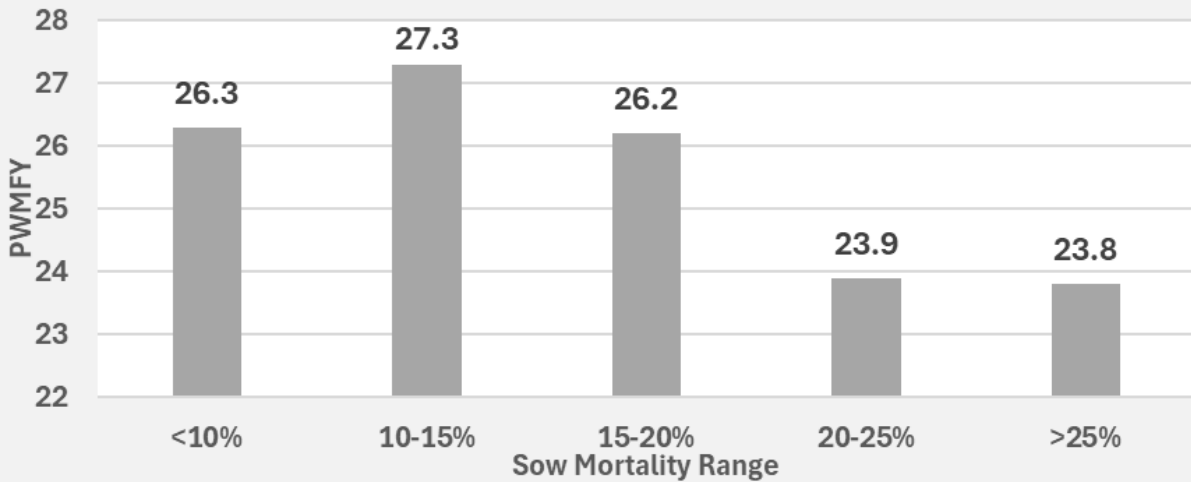
Key Takeaways

- **Avg:** 6.3% incr.
 - 67% change
- **T10%:** 2.4% incr.
 - 46% change
- **B10%:** 7.7% incr.
 - 55% change
- Post 2020 increase level

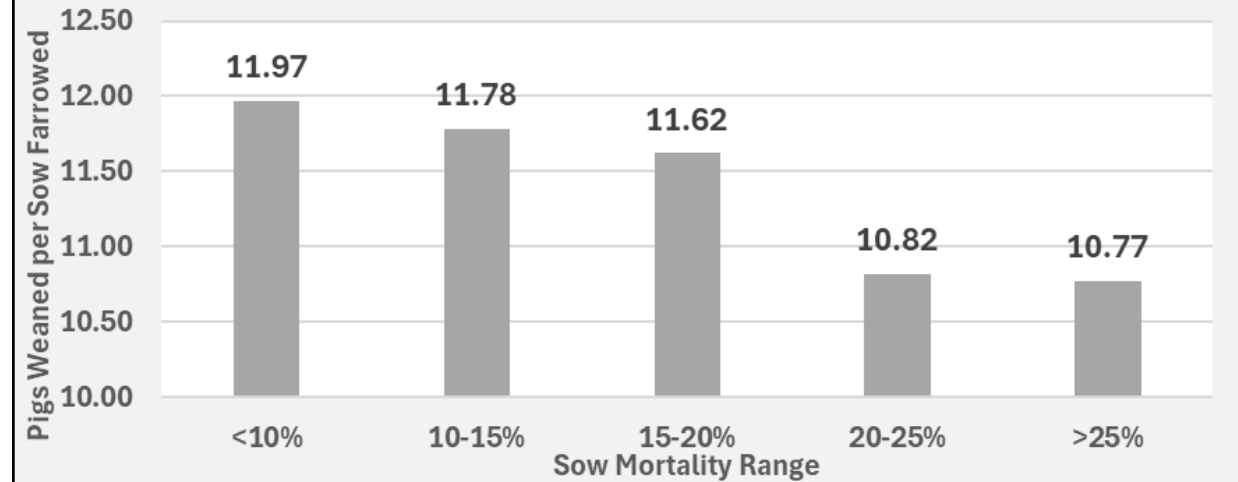
2023 Sow Mortality Range

	<10%	10-15%	15-20%	20-25%	>25%
% of Total	24.0%	12.4%	37.6%	19.8%	6.2%
Sow Mortality	8.0%	14.5%	17.4%	21.7%	28.2%
PWMFY	26.3	27.3	26.2	23.9	23.8
LMFY	2.22	2.31	2.27	2.20	2.23
PWM %	12.8%	14.3%	13.4%	16.6%	16.2%
Pigs Weaned/Sow Farr	11.97	11.78	11.62	10.82	10.77

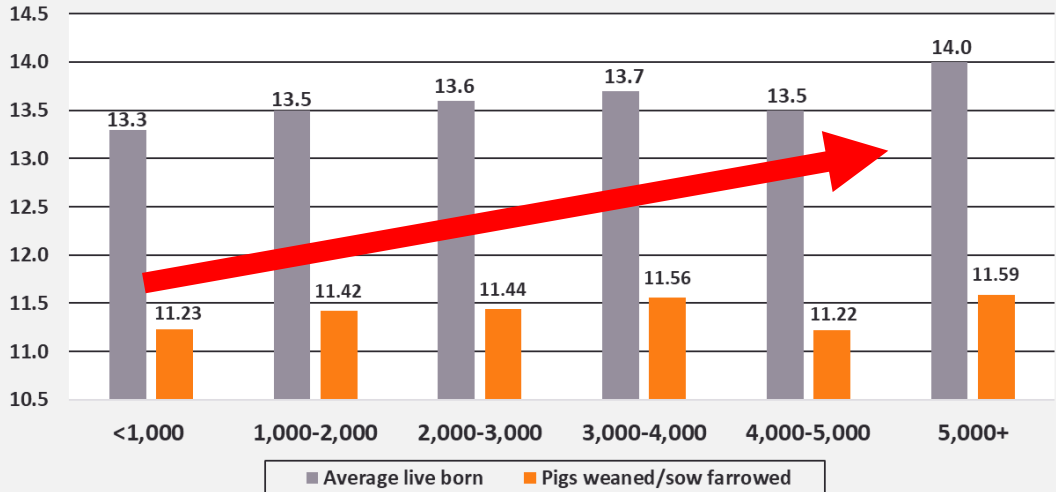
Sow Performance by Sow Mortality %
2023



Sow Performance by Sow Mortality %
2023

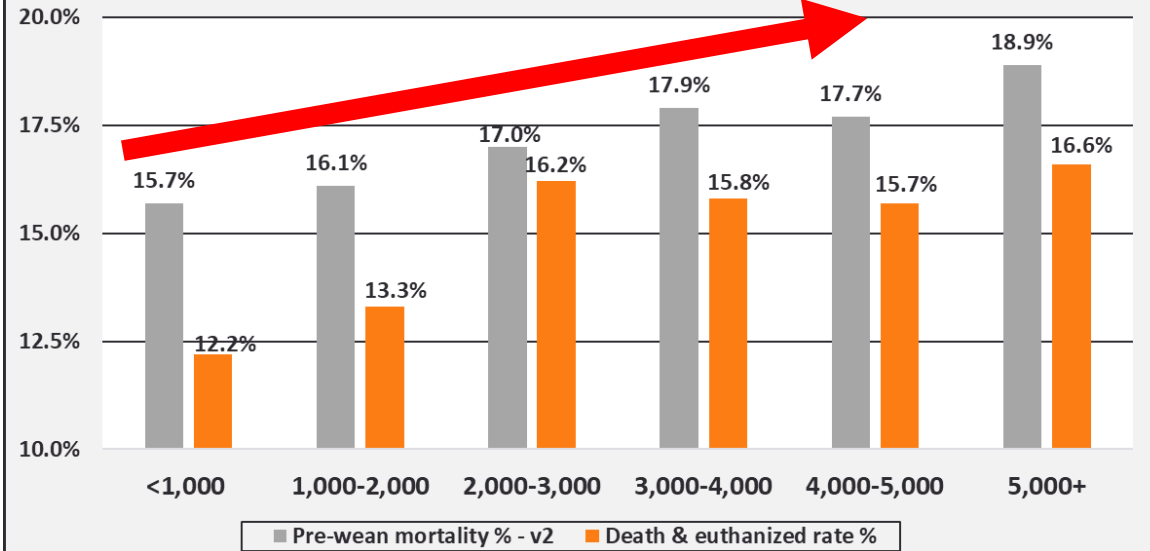


Sow Performance by Herd Size
January - December 2023



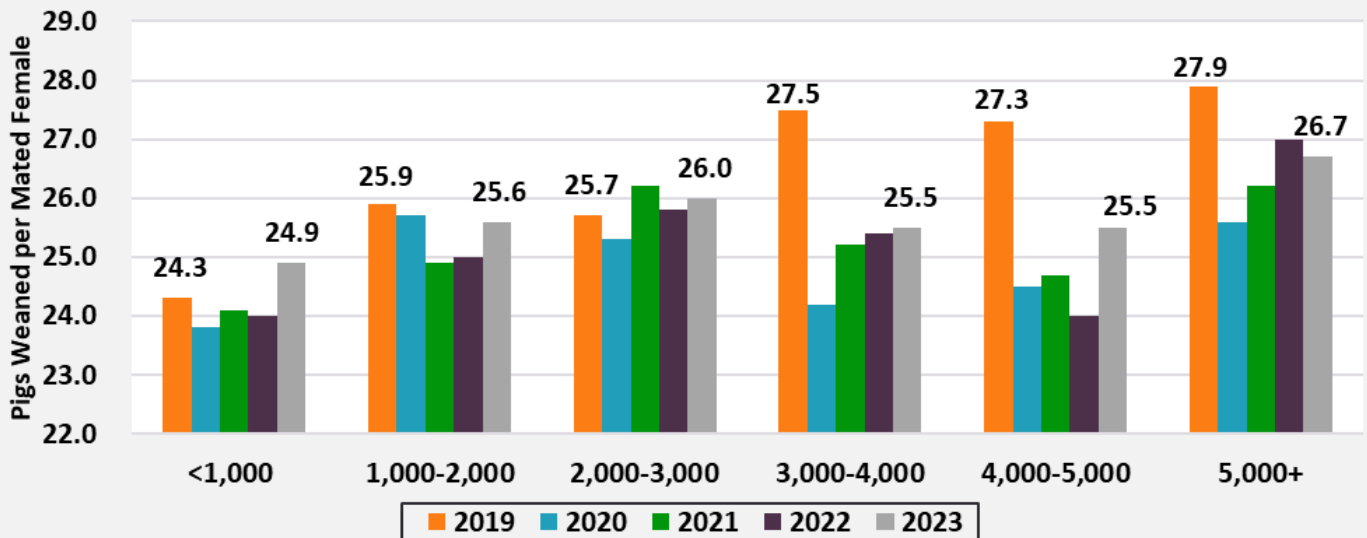
Sow Farm Performance by Size

Sow Performance by Herd Size
January - December 2023

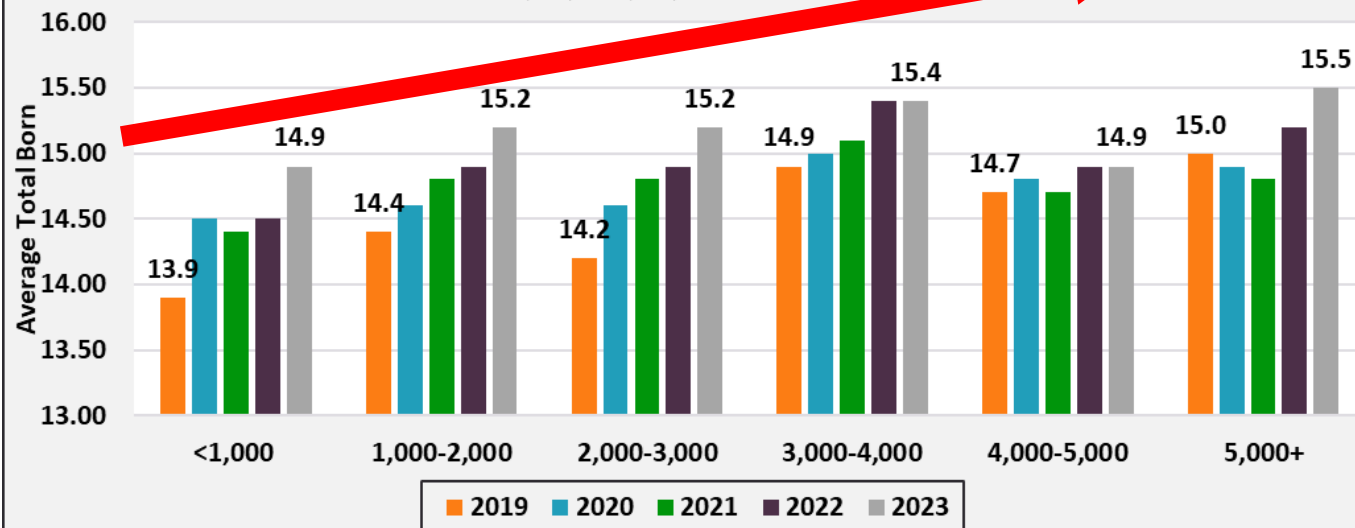


- ## Key Takeaways
- Larger farm efficiency
 - Higher death loss in larger farms

PWMFY by Sow Farm Size 2019-2023



Average Total Born by Sow Farms Size 2019-2023



Key Takeaways

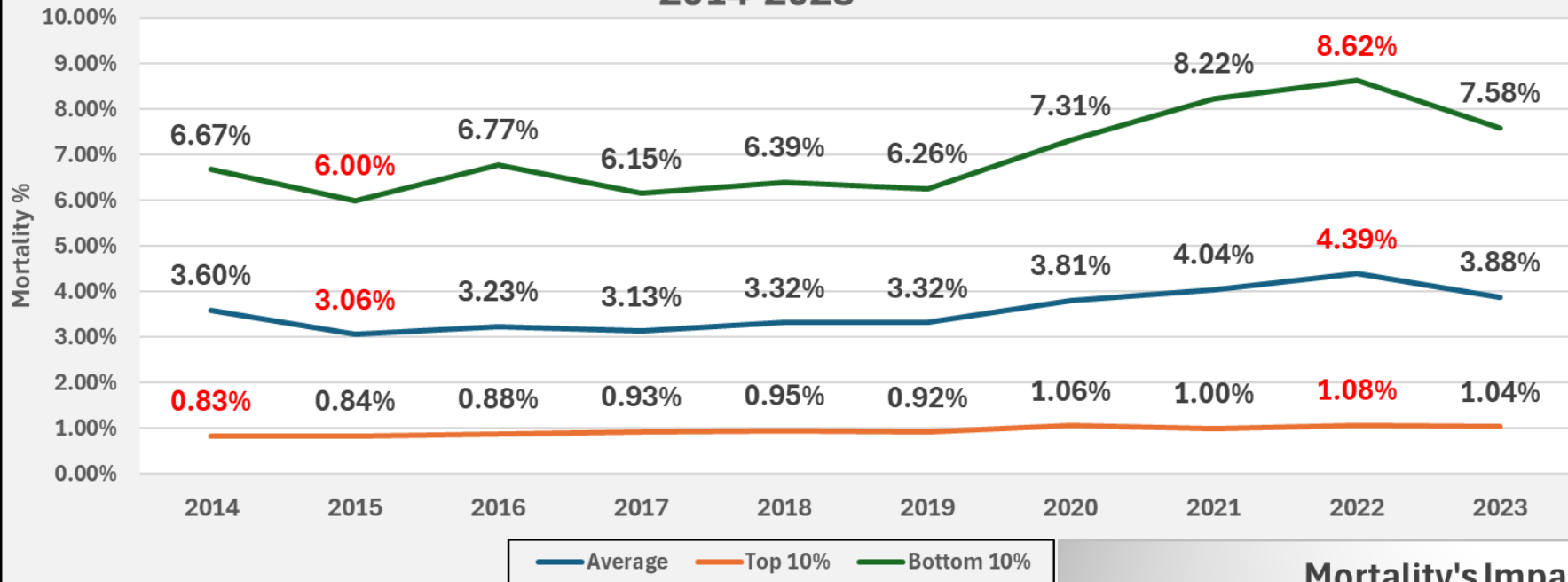
- Large Farm Efficiency
- TB: Year-over-Year Increases



Grow Finish Mortality Trends

Nursery Mortality %

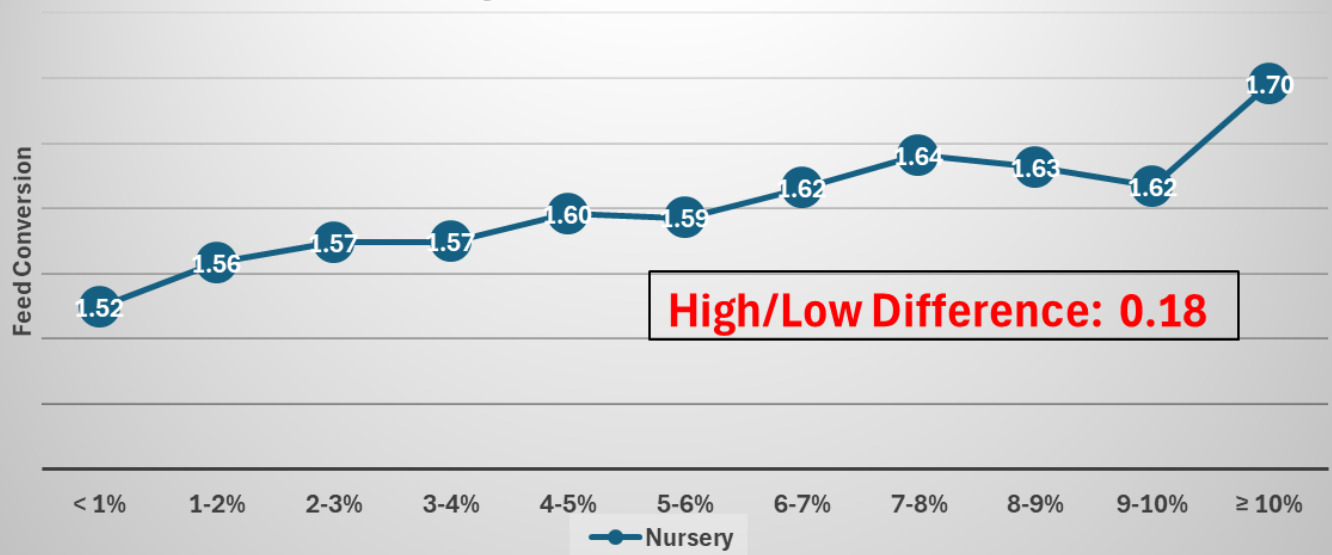
2014-2023



Key Takeaways

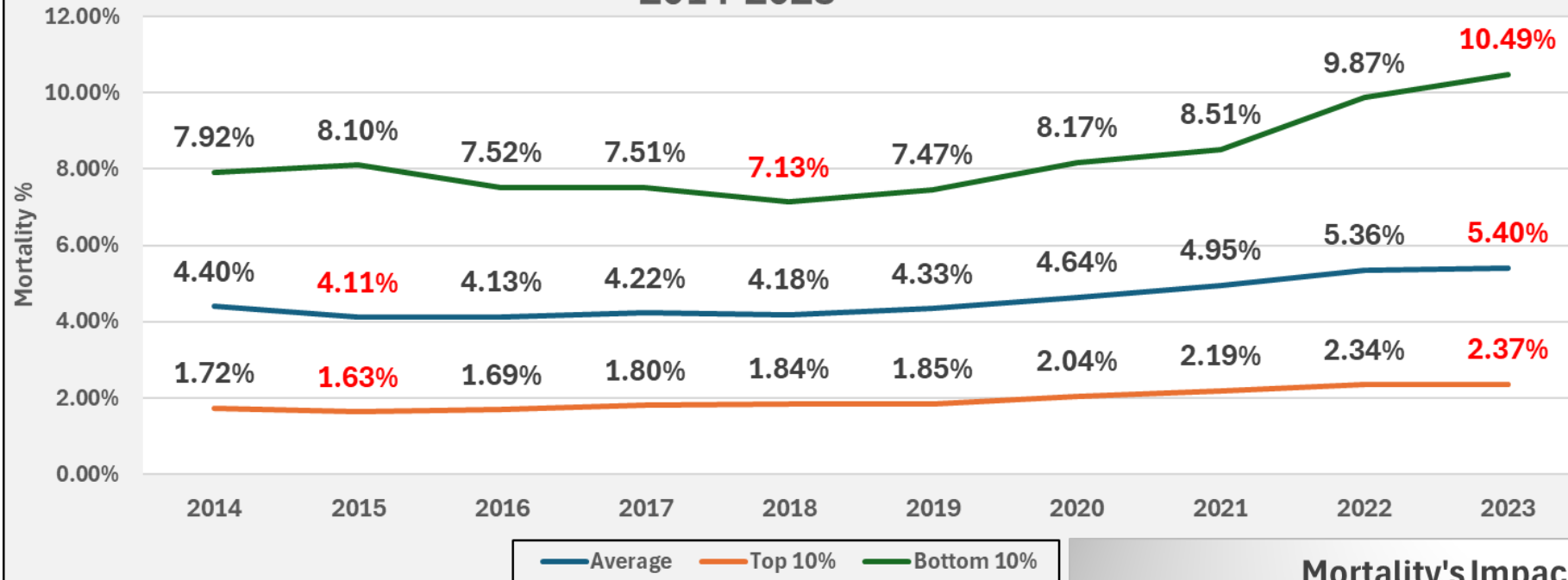
- **Avg:** 1.33% incr.
 - 44% change
- **T10%:** 2.62% incr.
 - 44% change
- **B10%:** 0.25% incr.
 - 30% change

Mortality's Impact on Feed Conversion Nursery - 2023 Performance



Finish Mortality %

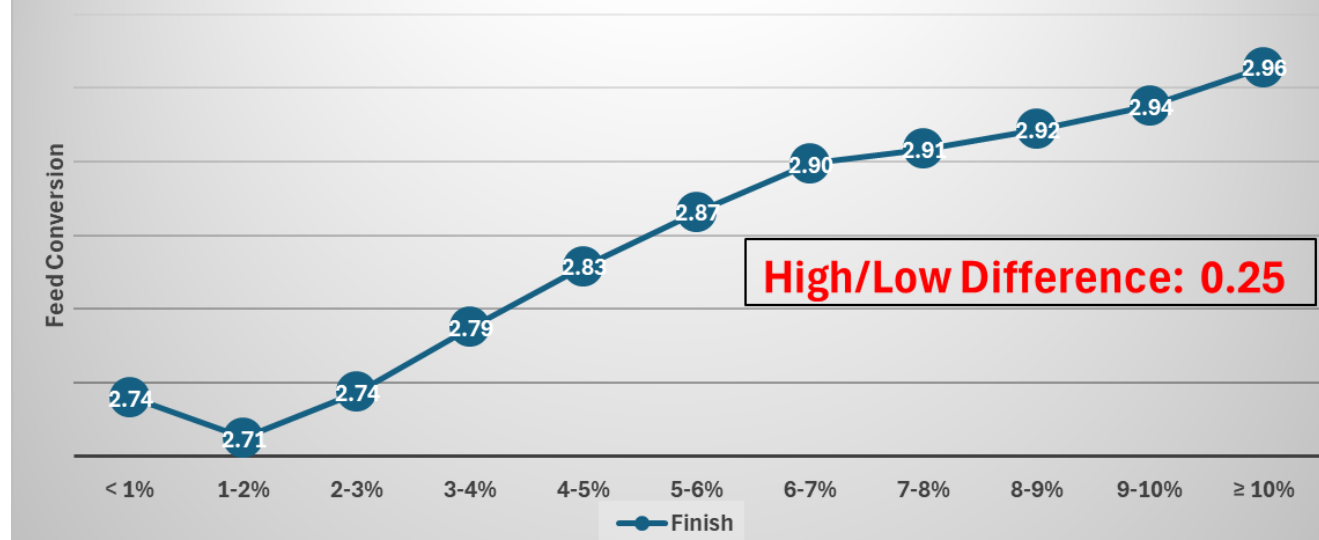
2014-2023



Key Takeaways

- **Avg:** 1.29% incr.
 - 32% change
- **T10%:** 2.4% incr.
 - 46% change
- **B10%:** 3.36% incr.
 - 47% change

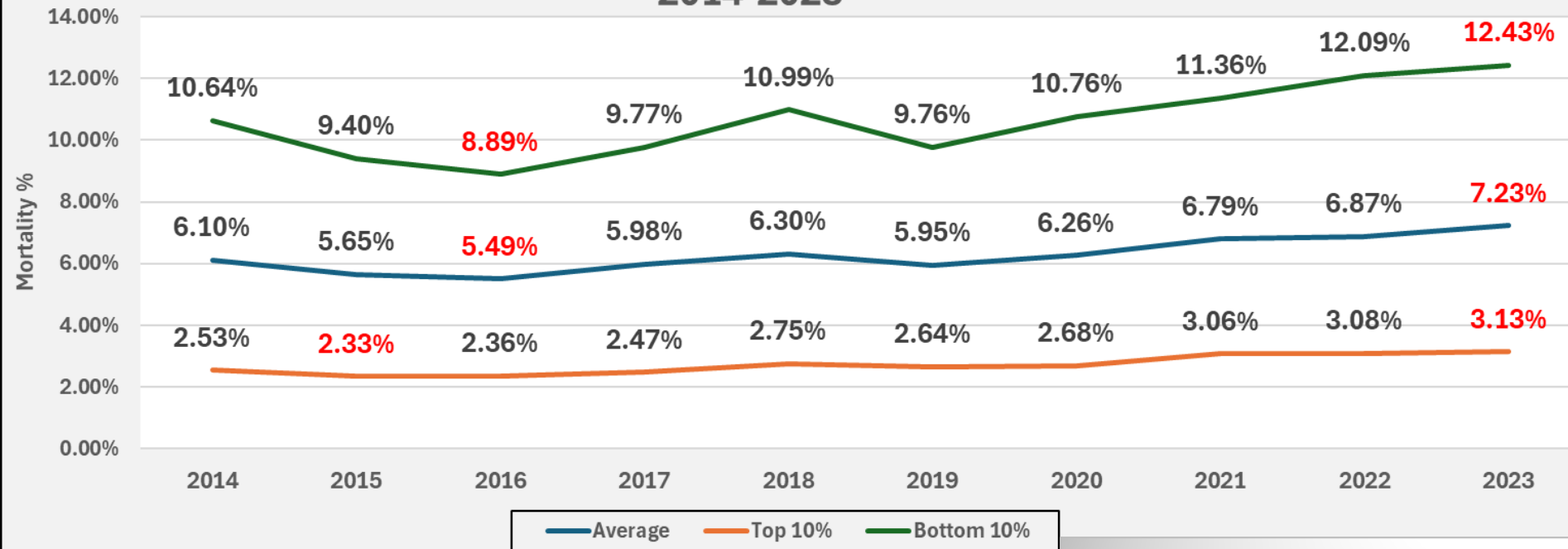
Mortality's Impact on Feed Conversion Finish - 2023 Performance



High/Low Difference: 0.25

Wean-to-Finish (SS) Mortality %

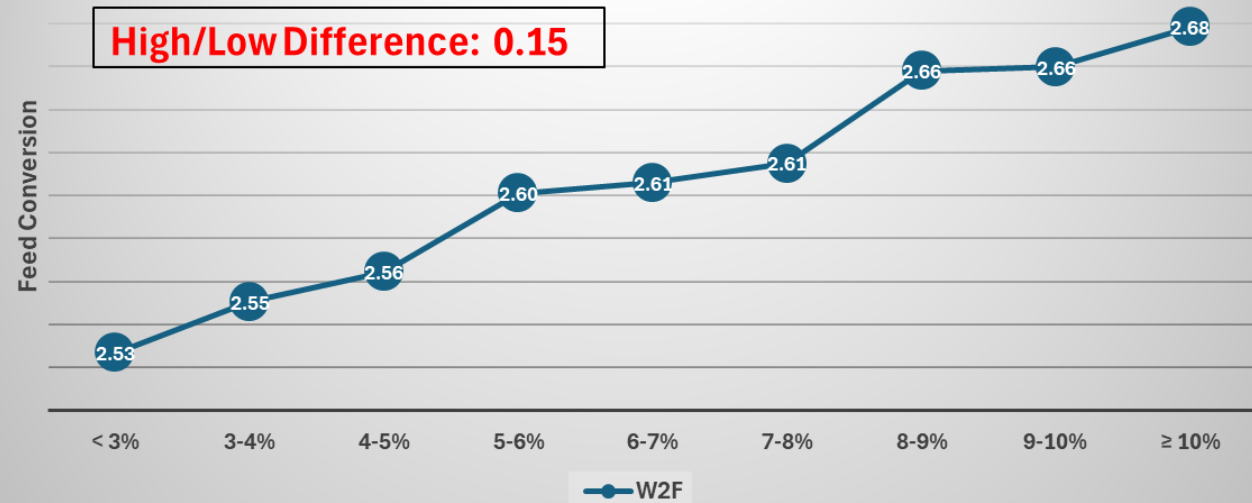
2014-2023



Key Takeaways

- **Avg:** 1.74% incr.
 - 32% change
- **T10%:** 0.80% incr.
 - 34% change
- **B10%:** 3.54% incr.
 - 40% change

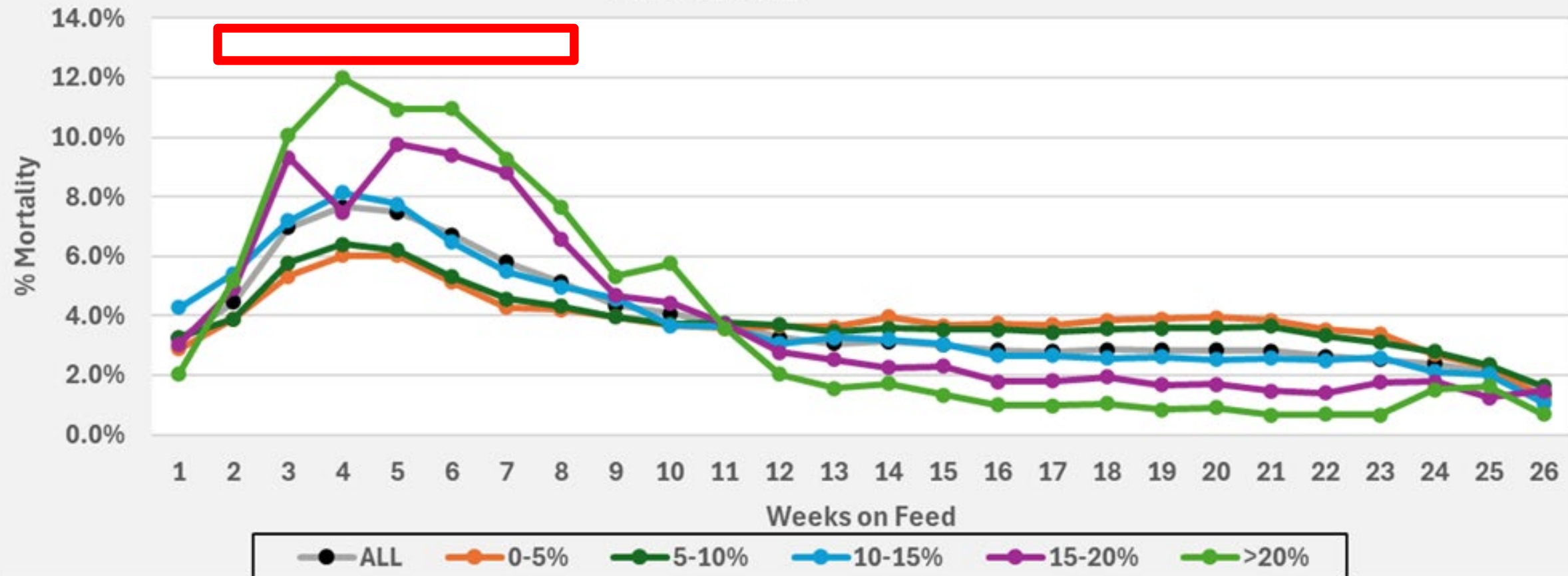
Mortality's Impact on Feed Conversion W2F - 2023 Performance

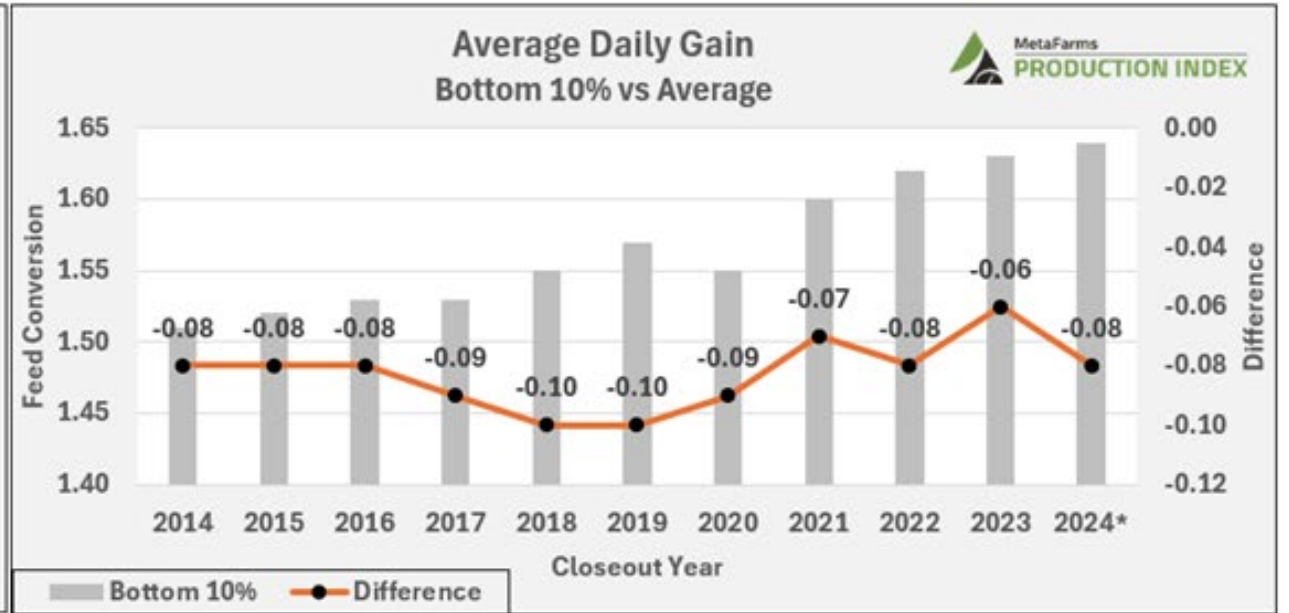
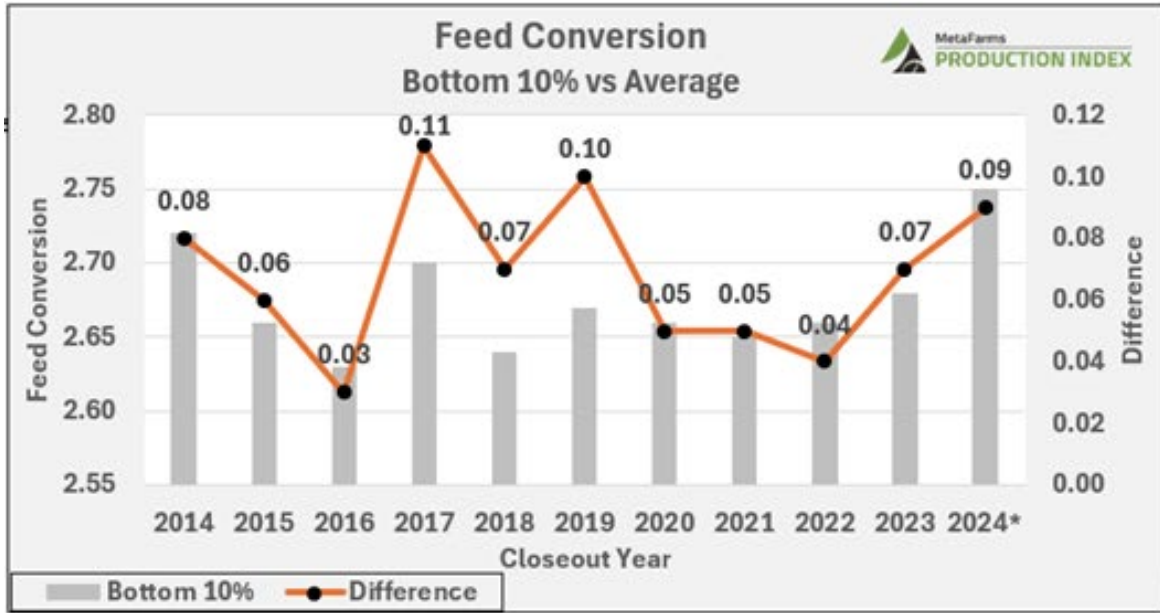


W2F Mortality by WOF



Mortality % by Weeks on Feed W2F 2023

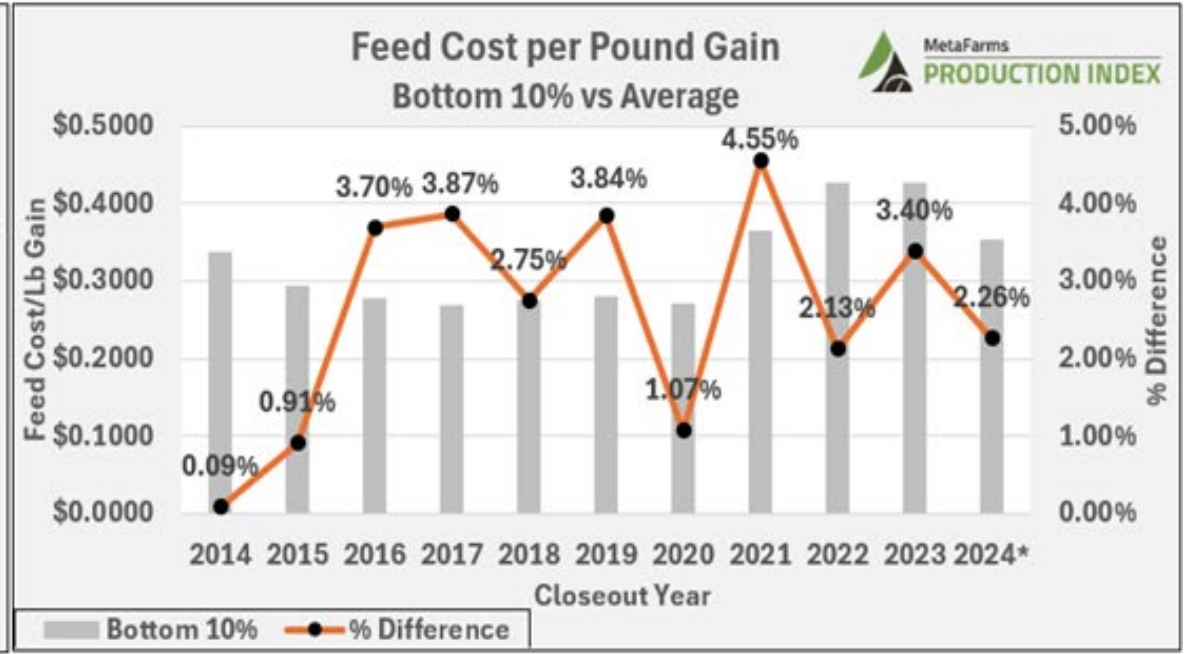
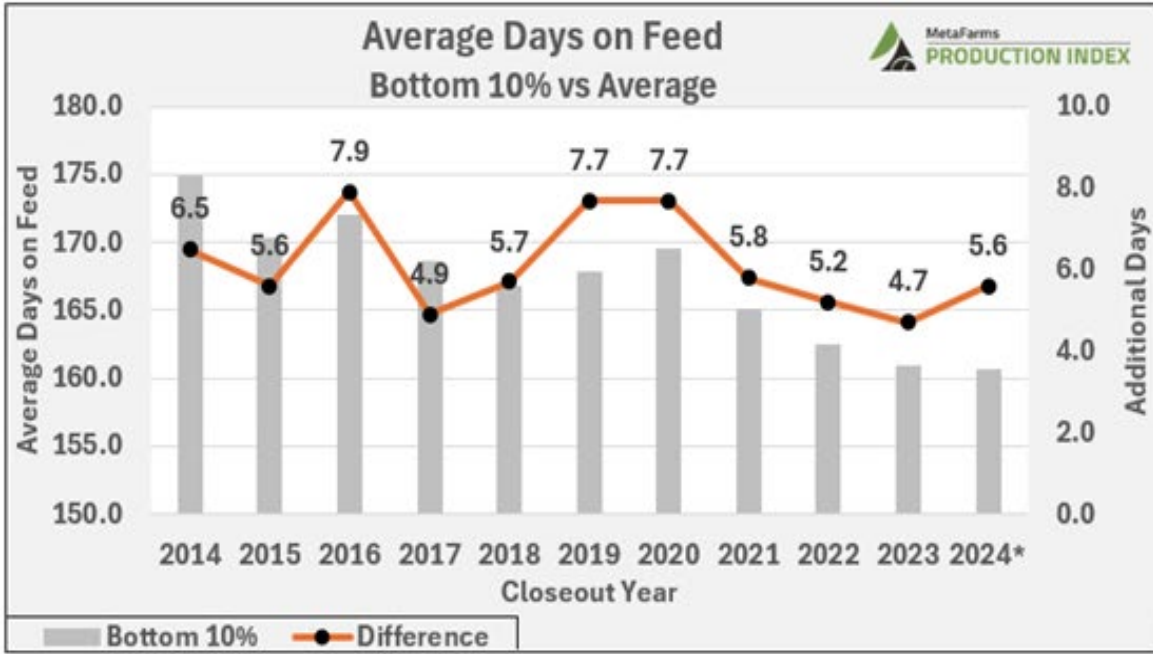




Key Take Aways

Feed Conversion: 0.04 - 0.11 higher

Average Daily Gain: 0.06 - 0.10 slower growth rates



Key Take Aways

Average Days on Feed: 4.7 - 7.9 more days on feed

Feed Cost per Pound Gain: 0.09% - 4.55% higher feed costs



Wean-to-Finish Closed Groups between January 1 to December 31, 2023

	<5%	5-6%	6-7%	7-8%	8-9%	>=9%
Percent of Total Groups	35.7%	13.4%	12.0%	9.3%	6.4%	23.2%
Mortality %	3.63%	5.50%	6.48%	7.50%	8.50%	13.22%
Market Sales as % of Pigs Out	93.15%	90.72%	89.86%	88.47%	88.12%	83.28%
Sub-Standard as % of Pigs Out	1.41%	1.83%	2.06%	2.17%	2.20%	2.11%
Start Wt	13.6	13.3	13.6	13.1	13.4	13.3
Out Wt (w/o Dead)	281.38	279.53	280.57	279.15	279.18	277.98
Lb Feed / Hd	683.0	691.6	697.7	695.7	704.0	703.4
Avg DOF	152.4	155.5	157.2	158.5	158.4	160.6
ADG (Live)	1.75	1.70	1.69	1.67	1.67	1.63
FCR (Live)	2.56	2.61	2.62	2.63	2.66	2.68
Feed Cost / Lb Gain	\$0.4008	\$0.4100	\$0.4082	\$0.4056	\$0.4173	\$0.4244
Feed Med Costs / Pig	\$1.44	\$1.27	\$1.23	\$1.12	\$1.27	\$1.16
Other Med Costs / Pig	\$2.83	\$3.22	\$3.30	\$3.41	\$3.53	\$3.77

Performance by Starting Weight



Benchmarking FINISHING Closeout Performance by Start Weight (Jan-Dec 2023)



Percent of Total Groups

Start Wt

Avg Out Wt w/o Dead Wt

Mortality as % of Pigs In

Avg DOF

ADG

FCR

Adj FCR*

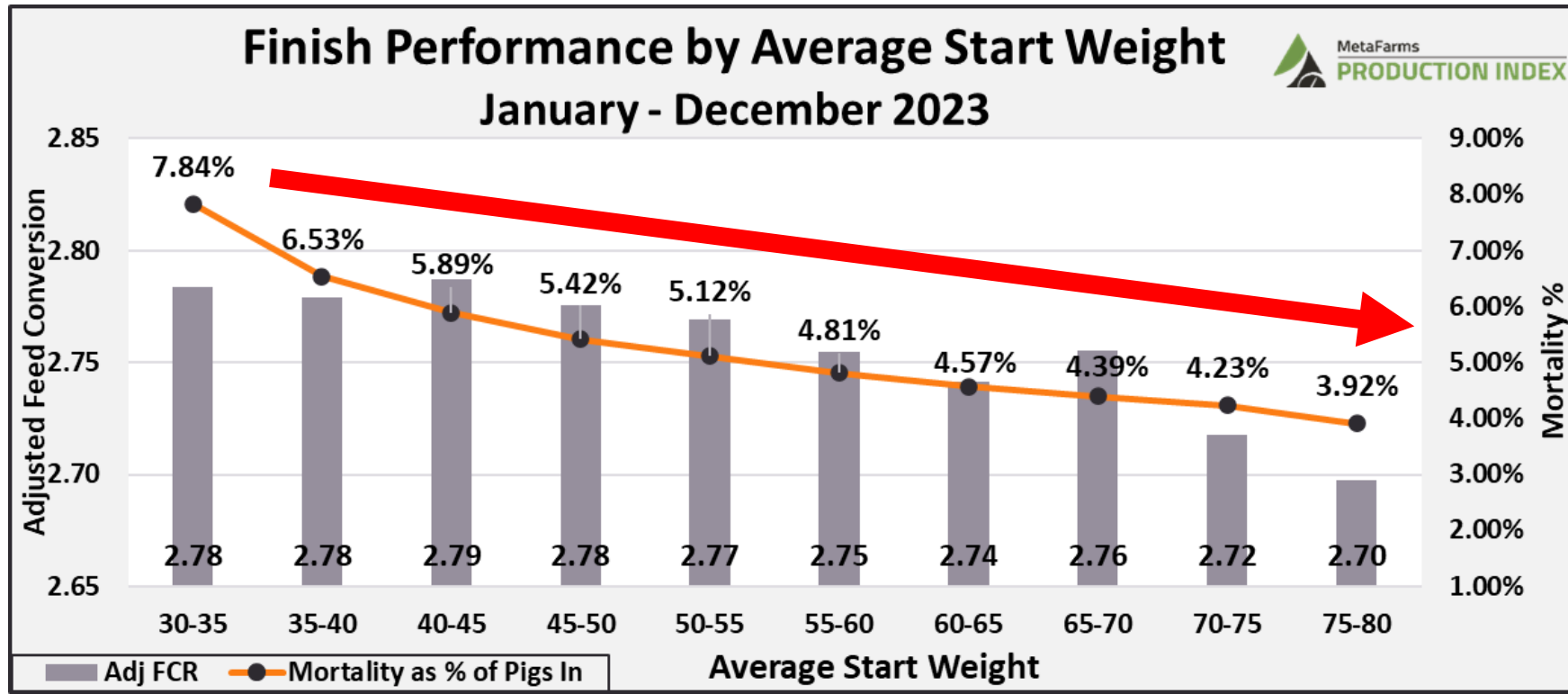
ADFI

Avg Feed Cost/Ton

Feed Cost per Lb Gain

Finish Average Start Weight										
30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	
6.5%	11.7%	14.9%	17.0%	17.2%	13.1%	9.0%	5.8%	3.3%	1.4%	
32.6	37.6	42.4	47.3	52.1	57.2	62.1	67.2	71.9	77.1	
282.15	282.39	282.13	282.27	282.30	283.22	283.36	283.88	283.17	285.15	
7.84%	6.53%	5.89%	5.42%	5.12%	4.81%	4.57%	4.39%	4.23%	3.92%	
130.1	125.7	121.2	117.9	114.3	111.0	107.5	105.0	101.4	98.8	
1.89	1.92	1.95	1.96	1.98	2.01	2.03	2.03	2.05	2.07	
2.76	2.78	2.81	2.82	2.84	2.86	2.87	2.91	2.89	2.91	
2.78	2.78	2.79	2.78	2.77	2.75	2.74	2.76	2.72	2.70	
5.21	5.33	5.48	5.54	5.63	5.73	5.81	5.91	5.93	6.01	
\$294.48	\$299.06	\$300.68	\$299.49	\$302.14	\$301.24	\$300.41	\$305.84	\$306.89	\$305.46	
\$0.4063	\$0.4155	\$0.4240	\$0.4228	\$0.4277	\$0.4268	\$0.4253	\$0.4401	\$0.4418	\$0.4378	

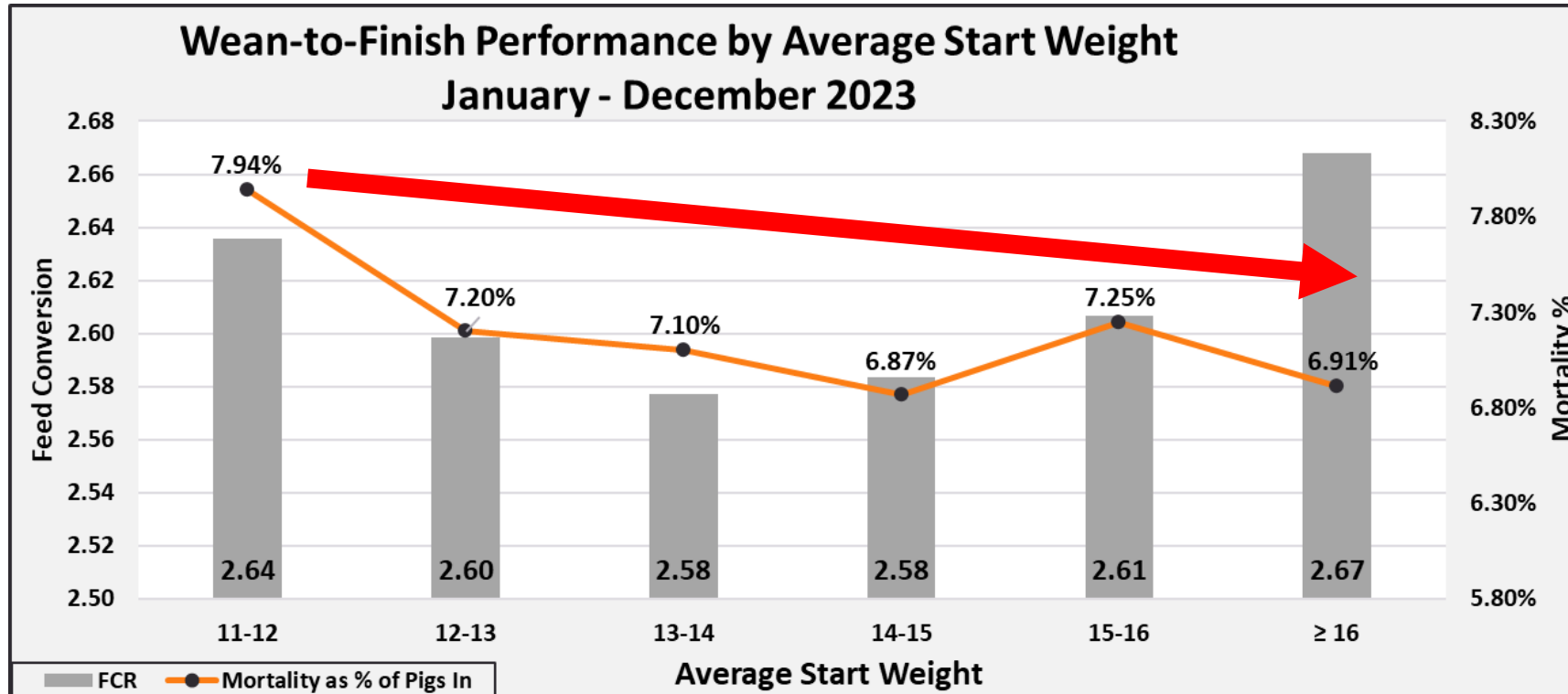
*Adjusted FCR for FINISHING was 50-270 lb.



Benchmarking **WEAN-TO-FINISH** Closeout Performance by Start Weight (Jan-Dec 2023)



	Wean-to-Finish Average Start Weight (lbs)					
	11-12	12-13	13-14	14-15	15-16	≥ 16
Percent of Total Groups	9.9%	29.0%	23.7%	17.3%	9.8%	10.3%
Start Wt	11.5	12.3	13.3	14.3	15.4	17.4
Avg Out Wt w/o Dead Wt	276.85	278.26	280.64	281.80	280.12	280.58
Mortality as % of Pigs In	7.94%	7.20%	7.10%	6.87%	7.25%	6.91%
Avg DOF	159.7	156.8	156.9	155.6	153.6	149.7
ADG	1.65	1.69	1.70	1.71	1.72	1.74
FCR	2.64	2.60	2.58	2.58	2.61	2.67
ADFI	4.35	4.38	4.37	4.42	4.47	4.65
Avg Feed Cost/Ton	\$316.11	\$315.64	\$314.38	\$315.85	\$314.92	\$316.28
Feed Cost per Lb Gain	\$0.4166	\$0.4107	\$0.4066	\$0.4097	\$0.4122	\$0.4223



Performance by Ending Weight



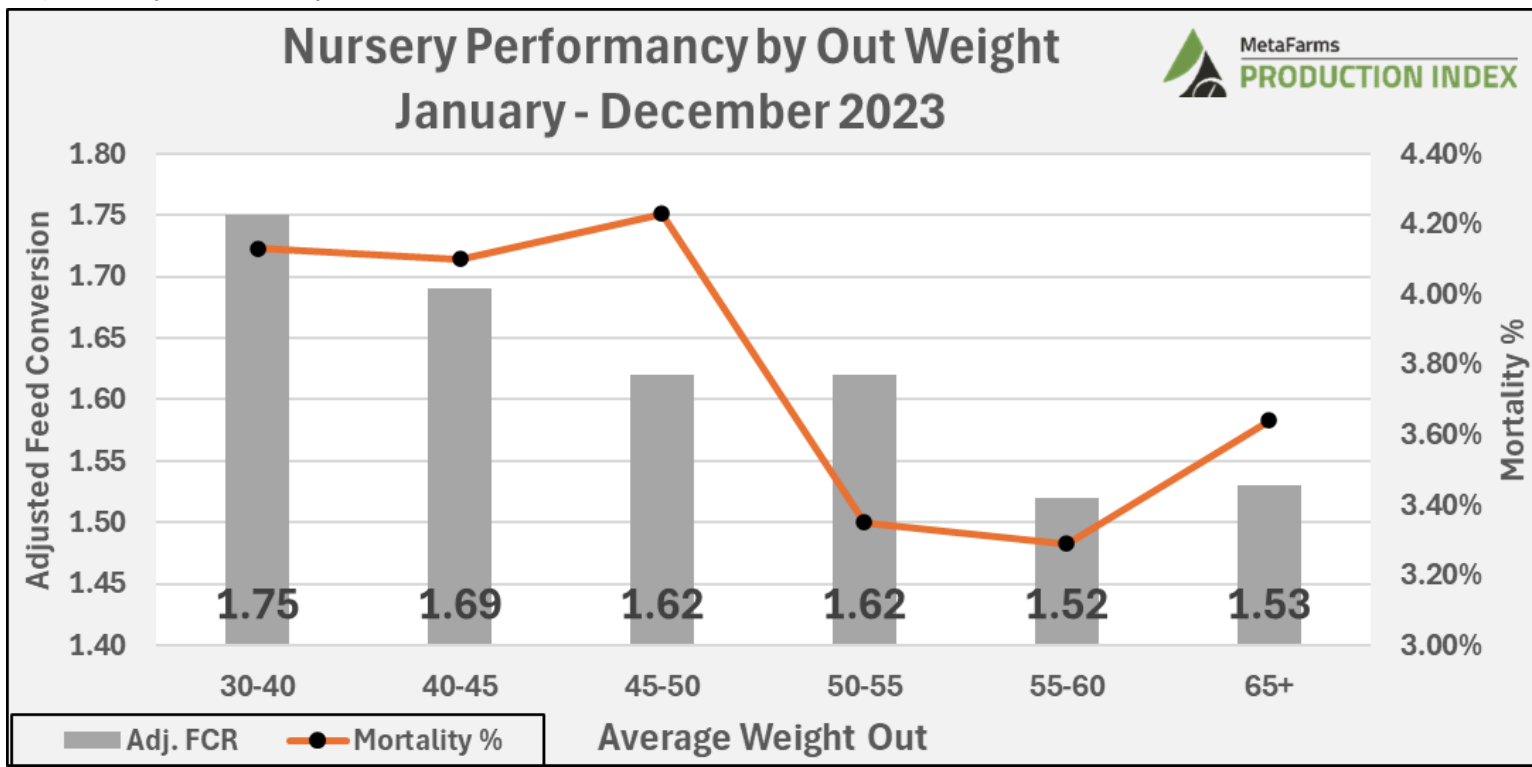
2023



Nursery Average Out Weight

	30-40	40-45	45-50	50-55	55-60	65+
% of Groups	15.3%	17.6%	18.2%	20.6%	12.6%	15.7%
Avg Start Wt	12.9	13.1	13.2	13.4	13.2	13.2
Avg Out Weight	36.44	42.47	47.39	51.77	57.09	66.80
Mortality %	4.13%	4.10%	4.23%	3.35%	3.29%	3.64%
ADG	0.66	0.73	0.80	0.86	0.93	1.02
Adj. FCR	1.75	1.69	1.62	1.62	1.52	1.53
Avg DOF	34.9	39.3	41.9	44.3	46.8	51.8

*Adj. FCR (12-55 lbs)



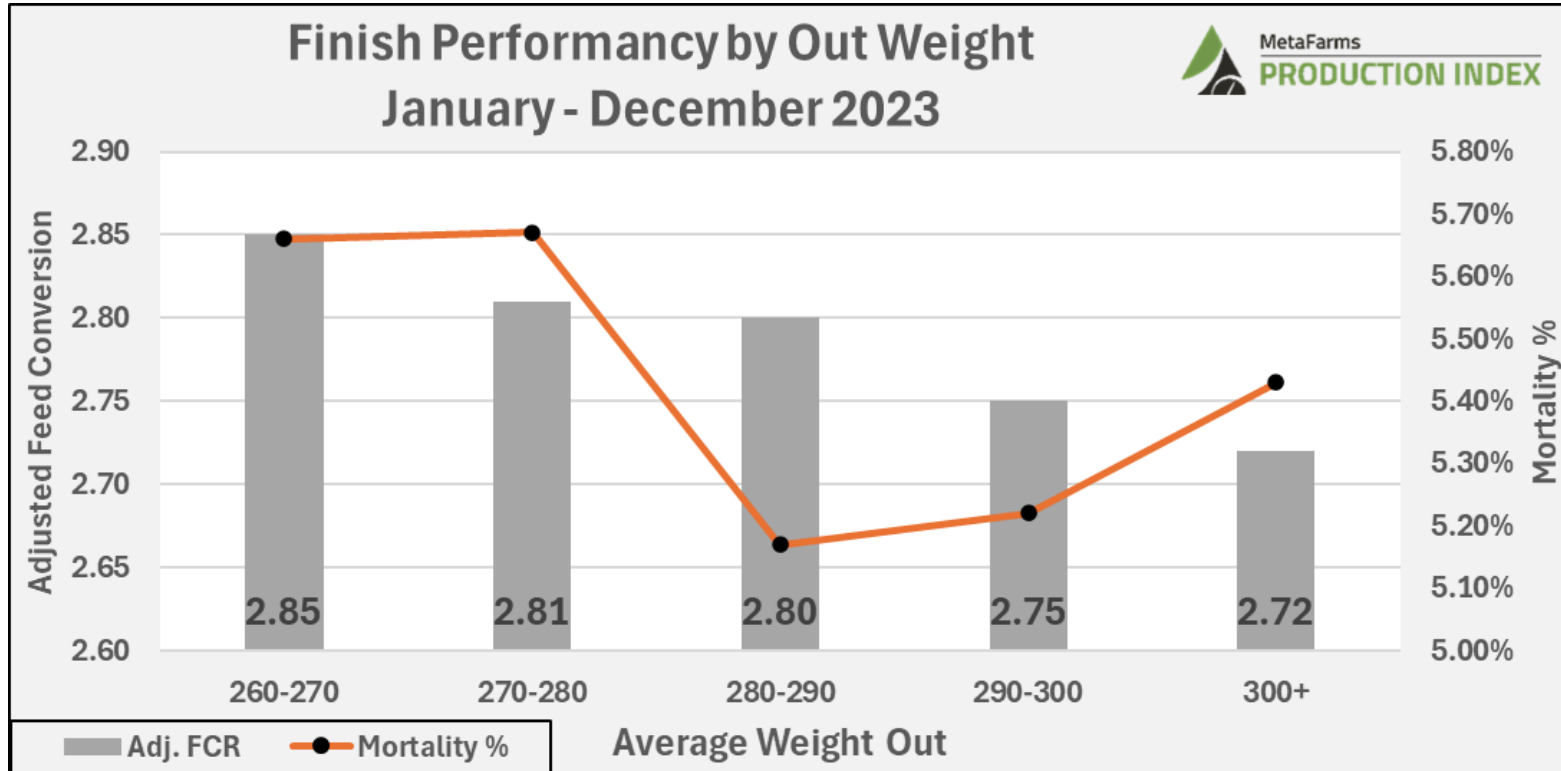
2023



Finish Average Out Weight

	260-270	270-280	280-290	290-300	300+
% of Groups	10.8%	26.4%	30.5%	20.8%	11.5%
Avg Start Wt	48.6	50.0	51.3	50.2	48.4
Avg Out Weight	265.95	275.37	285.15	294.97	307.24
Mortality %	5.66%	5.67%	5.17%	5.22%	5.43%
ADG	1.85	1.90	2.00	2.02	2.07
Adj. FCR	2.85	2.81	2.80	2.75	2.72
Avg DOF	115.6	116.5	115.3	118.8	123.0

*Adj. FCR (50-270 lbs)

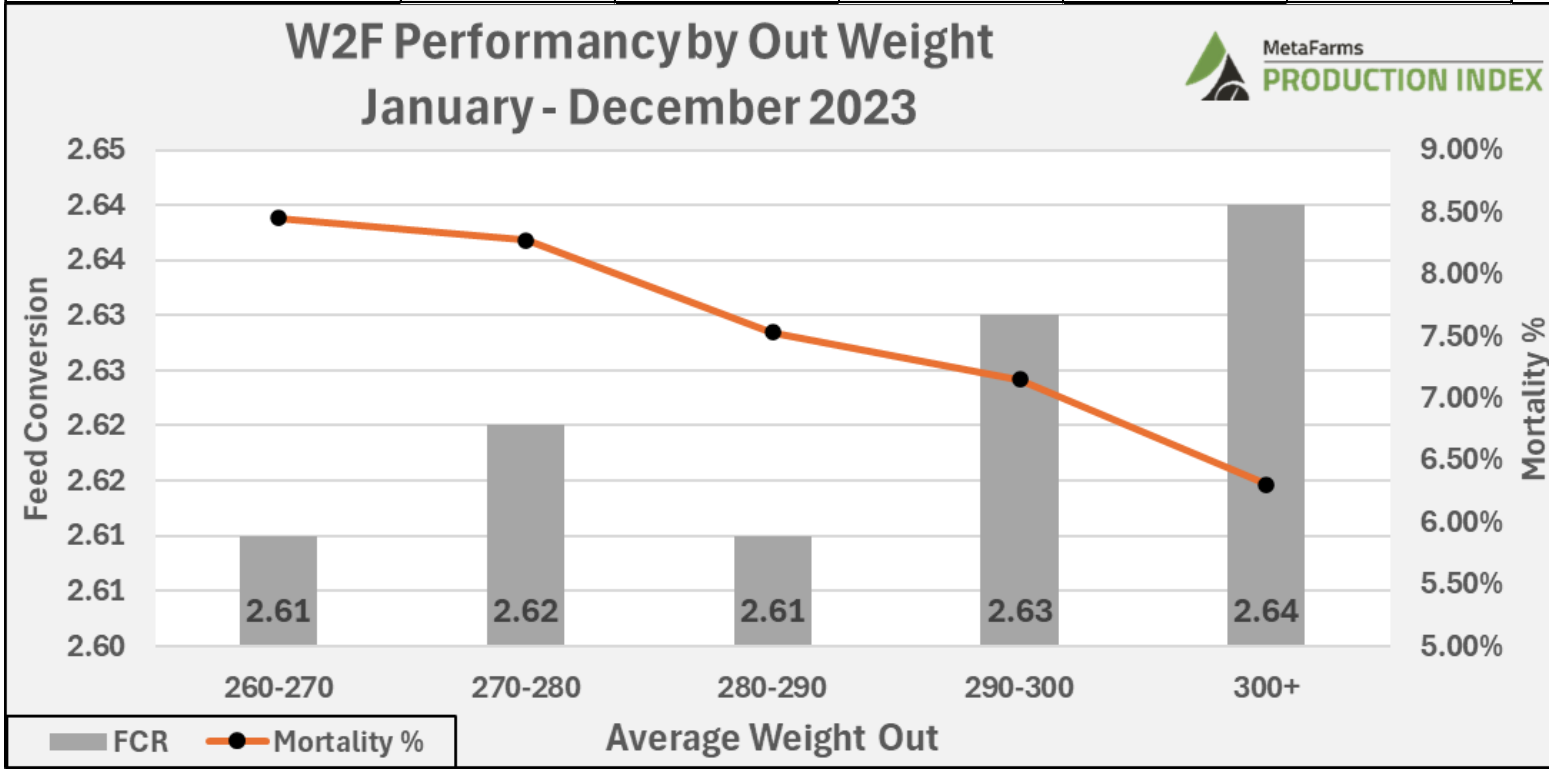


2023



W2F Average Out Weight

	260-270	270-280	280-290	290-300	300+
% of Groups	12.6%	28.5%	33.6%	19.2%	6.2%
Avg Start Wt	13.2	13.2	13.4	13.5	13.6
Avg Out Weight	266.02	275.54	284.95	294.31	305.03
Mortality %	8.45%	8.27%	7.53%	7.15%	6.30%
ADG	1.61	1.66	1.71	1.76	1.81
FCR	2.61	2.62	2.61	2.63	2.64
Avg DOF	156.5	157.5	157.8	158.4	160.2



Feeder Type Comparison



Wet/Dry



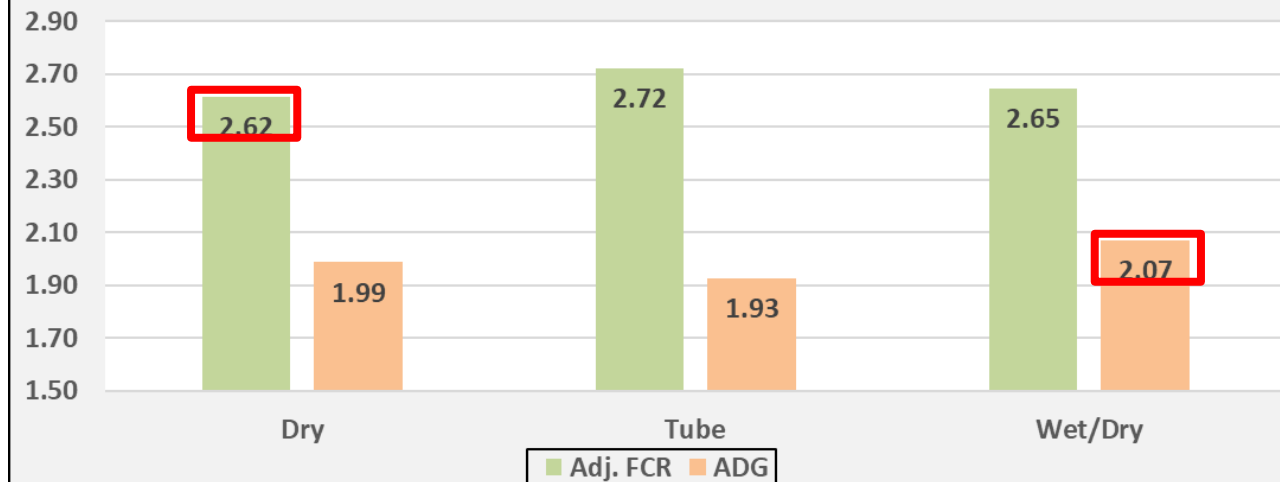
Dry



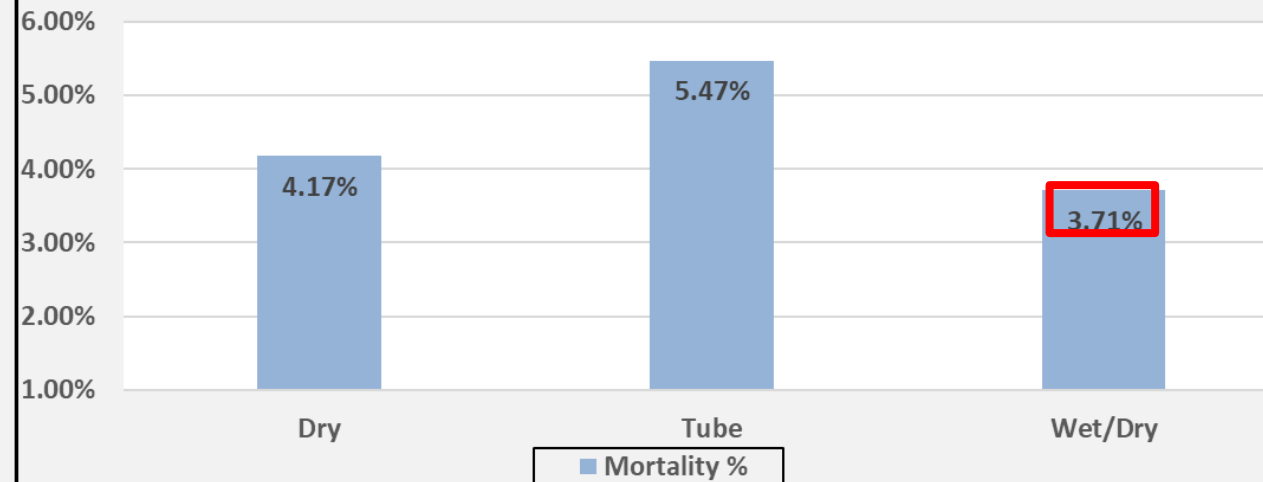
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Case Studies: Feeder Type Comparison

Performance by Feeder Type
Finish - 2023



Performance by Feeder Type
Finish - 2023



Production Data Sets available



MetaFarms Production Index Analysis

Sow Farm Performance, Sow Mortality &
Sow Farm Feed Intake

2023

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Sow Farm Performance, Sow Mortality &
Sow Farm Feed Intake

2023

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