

ON-FARM TEST RESULTS

CENFIX GOLD

August 2022 - October 2022



Objective

The objective of this study was to determine the effects on animal health, performance and economic return when utilizing CENFIX GOLD in the feeding programs of Dairy Cows.

Demonstration Specifics

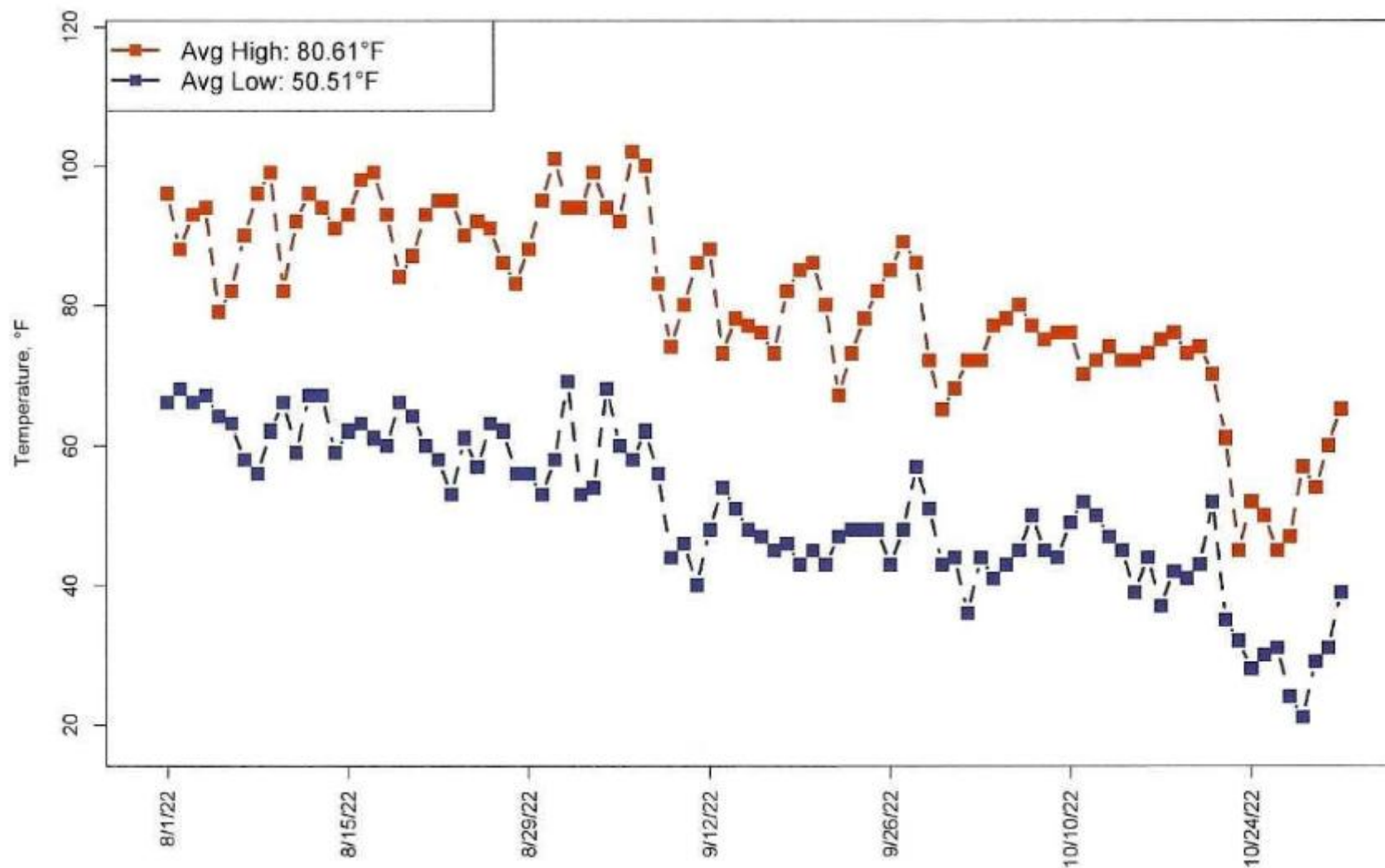
Design

- ▶ **CENFIX GOLD supplemented at** 22.5ml/hd/d (24g/hd/d) to close-up pens, fresh pens, and high milking pens from 8/1/22 thru 8/8/22. Then 7.5ml/hd/d (8g/hd/d) from 8/9/22 thru 10/31/22.
- ▶ **Performance compared to**
 - Same site, previous year
 - Sister site with similar management /nutrition during same timeframe
 - Dairy #1= Received CENFIX GOLD
 - Dairy #2= Did NOT Receive CENFIX GOLD

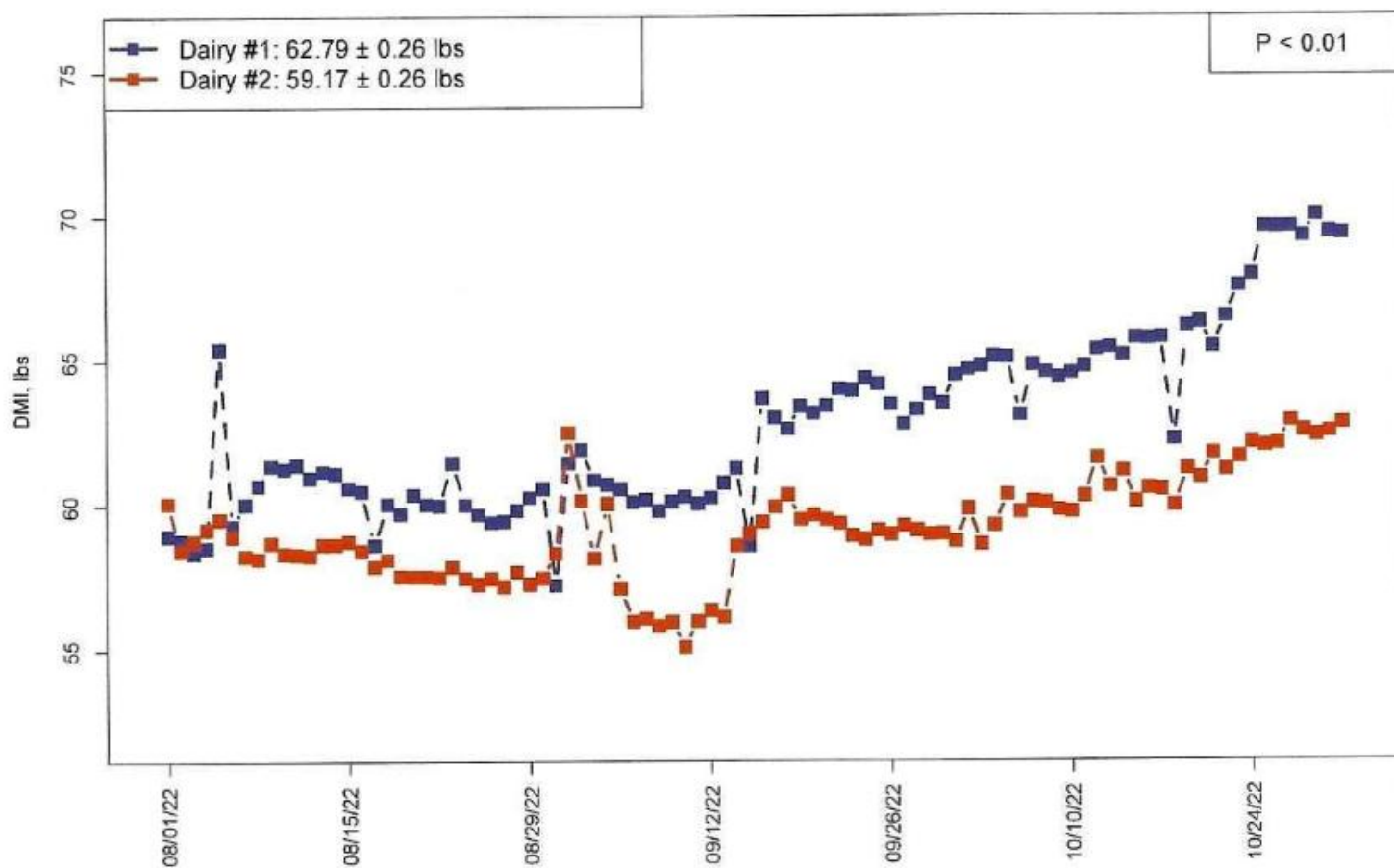
Metrics of Interest

- Dry Matter Intake
- 1st, 2nd, 3rd Test Day Milk, Components, Energy-Corrected Milk
- Disease incidence (% of fresh)
- Herd Removals (sold/cull)

► high and Low Temperatures - Trial Perio



► Dry Matter Intake - High Pens (Dairy #1 v. Dairy #2)



High pens at Dairy #1 consumed 3.62 lb/cow/d more dry matter than high pens at Dairy #2 ($P \leq 0.01$)

Intake increased throughout the demo period at both sites

► Simple First Test Day Milk Economics - Dairy #1

► Current FMMO Pricing:

Fat: \$3.372/lb.

Protein: \$2.5374/lb.

<https://milkpay.com>

► Dairy #1 - 2021

- Milk Yield: 86.77 lb
- Butterfat (% , lb.): 4.64%, 3.89 lb.
- Milk Protein (% , lb.): 3.36%, 2.88 lb.
- Milk Income: \$20.42/cow/d

► Dairy #1 - 2022

- Milk Yield: 92.88 lb
- Butterfat (% , lb): 4.48%, 4.00 lb
- Milk Protein (% , lb.): 3.45%, 3.14 lb.
- Milk Income: \$21.46/cow/d

► \$1.04/cow/d increased milk income

► Simple First Test Day Milk Economics

- Dairy #1 vs. Dairy #2 2022

Current FMMO Pricing:

Fat: \$3.372/lb.

Protein: \$2.5374/lb.

<https://milkpay.com>

► Dairy #1- 2022

- Milk Yield: 92.88 lb.
- Butterfat (% , (b): 4.48%, 4.00 lb.
- Milk Protein (o, lb): 3.45%, 3.14 lb.
- Milk Income: \$21.46/cow/d

► Dairy #2 - 2022

- Milk Yield: 85.96 lb.
- Butterfat (% , lb.): 4.58%, 3.86 lb.
- Milk Protein (% , lb.): 3.33%, 2.83 lb.
- Milk Income: \$20.20/cow/d

► \$1.26/cow/d increased
milk income vs. Dairy #2

► Economic Analysis- Milk

► Description (hd/day)	Daily#1
• First Day Test Milk	+\$1.04
• Program Cost	-\$0.069
• Feed Savings	+\$0.243
• Net Economic Return	+\$1.21

► Description (hd/day)	Dairy #1 vs Dairy #2 2022
• First Day Test Milk	+\$1.26
• Program Cost	-\$0.069
• Feed Costs	-\$0.652
• Net Economic Return	+\$0.54

► Economic Analysis- Health

► Description (per hd)	Daily#1
• Program Cost	-\$6.32
• Health Cost	-\$11.27
• Net Economic Return	-\$17.59

► Description (per hd/)	Dairy #1 vs Dairy #2 2022
• Program Cost	-\$6.32
• Health Cost	+\$52.32
• Net Economic Return	+\$46.00

Cost of Disease - Dairy #1 Comparison

Disease	2021	2022	Δ	Cost/Case	\$/1000 Fresh
DA	--	--	--	\$432	--
Mast	9.94%	9.77%	-0.17%	\$325	-\$552.50
RP	2.71%	8.27%	+5.56%	\$150	+\$8,340
Met	3.92%	5.64%	+1.72%	\$171	+\$2,941.20
Lame	0.30%	0.75%	+0.45%	\$120	+\$540
Net					+\$11,268.70

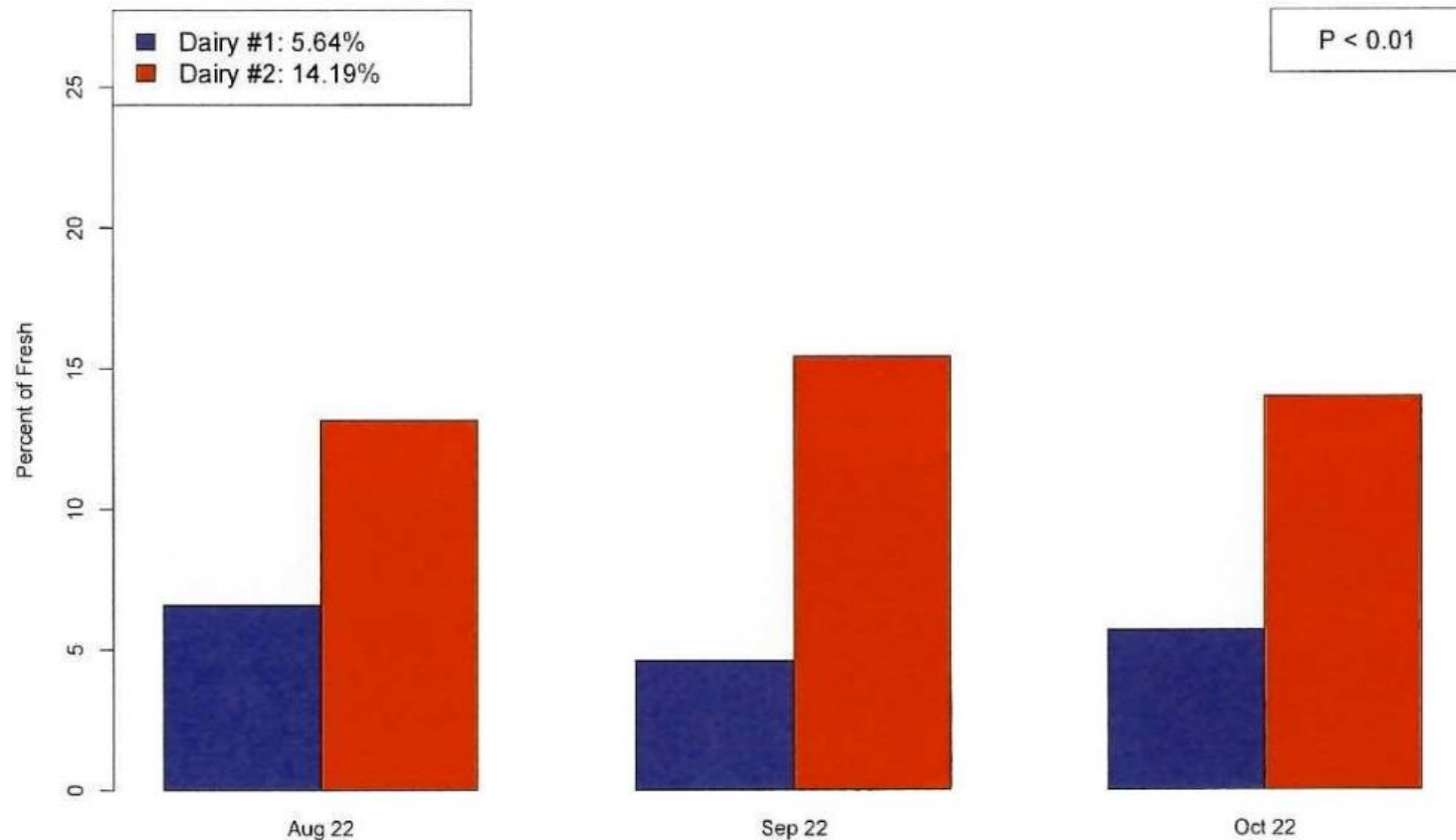
In the Dairy #1 comparison, estimated cost of disease per 1000 calvings was \$11,268.70 greater in 2022 than in 2021

Cost of Disease - Dairy #1 vs. Dairy #2 2022

Disease	#1	#2	Δ	Cost/Case	\$/1000 Fresh
DA	--	0.25%	-0.25%	\$432	-\$1,080
Mast	9.77%	16.77%	-7.00%	\$325	-\$22,750
RP	8.27%	5.42%	+2.85%	\$150	+\$4,275
Met	5.64%	14.19%	-8.55%	\$171	-\$14,620.50
Lame	0.75%	15.87%	-15.12%	\$120	-\$18,144
Net	TN				-\$52,319.50

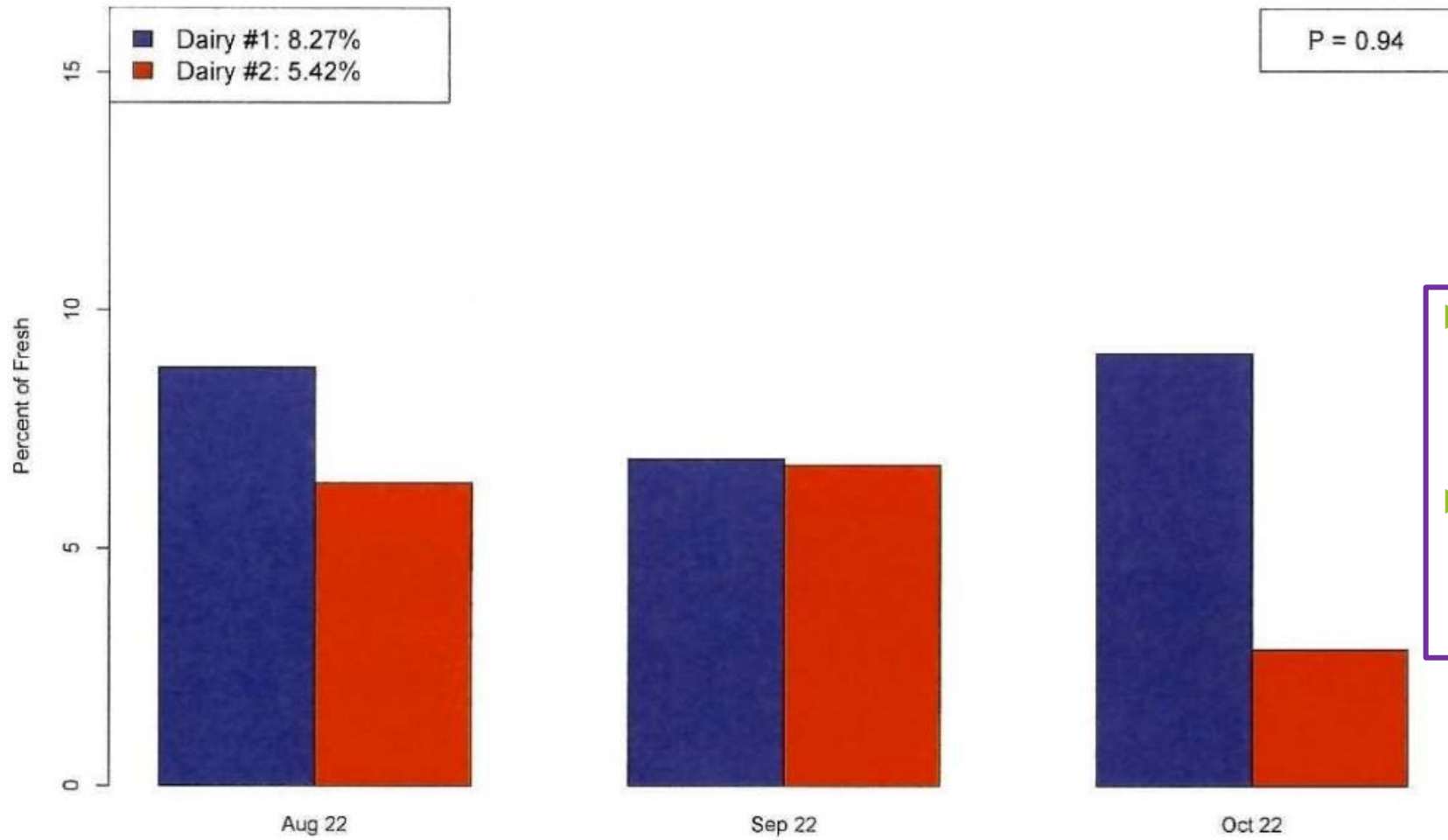
In the Dairy #1 vs. Dairy #2 2022 comparison, estimated cost of disease per 1000 calvings was \$52,319.50 lower in Dairy #1 than in Dairy #2

Metritis, % of Fresh (Daily #1 vs. Daily #2)



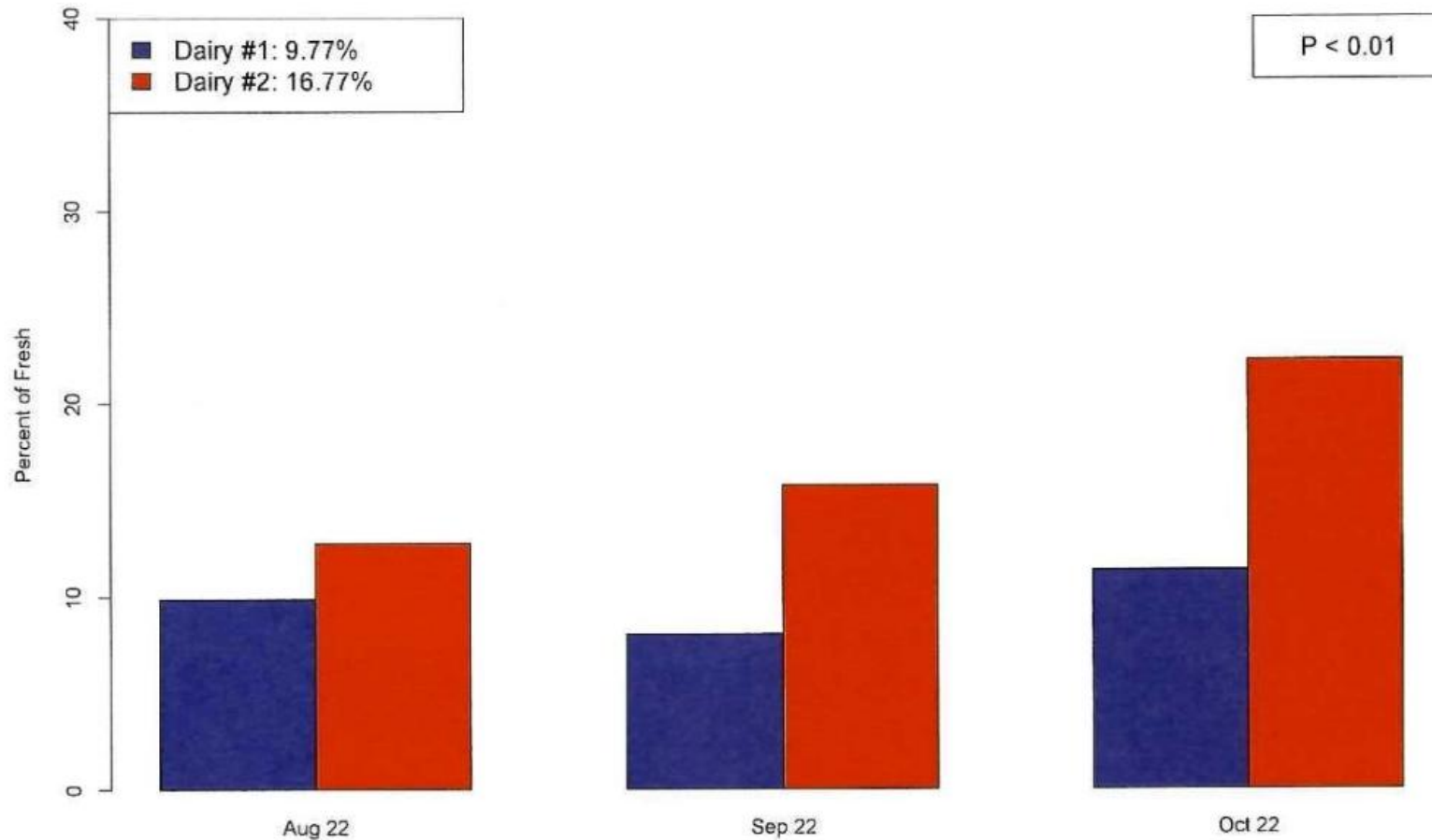
- ▶ Percentage of cows with metritis was substantially lower at Dairy #1 compared to Dairy #2 ($P \leq 0.01$)
- ▶ Nearly 3 x lower incidence

Retained Placenta, % of Fresh (Daily #1 vs. Daily #2)



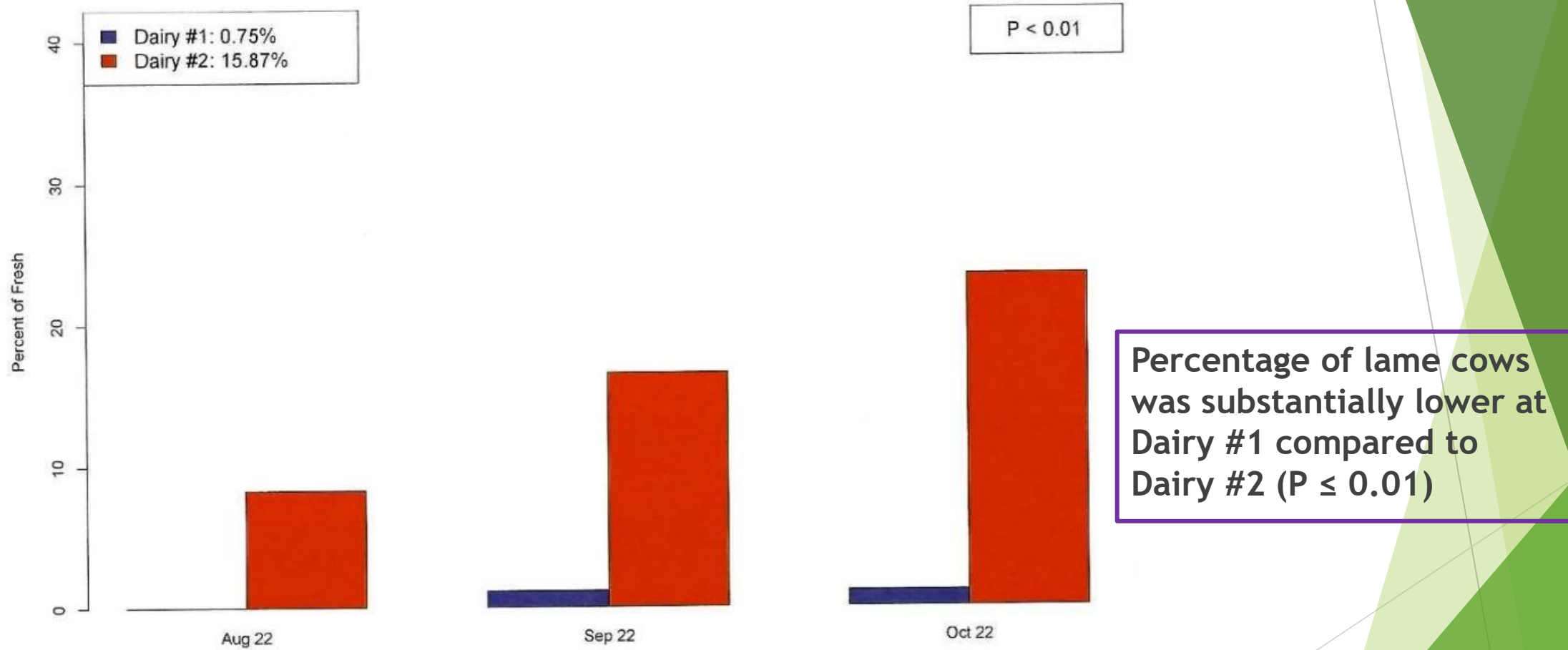
- ▶ Percentage of cows with retained placenta was not lower at Dairy #1 compared to Dairy #2 (P=0.94)
- ▶ Numerically greater incidence at Dairy #1, driven largely by Oct 2022

Mastitis, % of Fresh (Daily #1 vs. Daily #2)

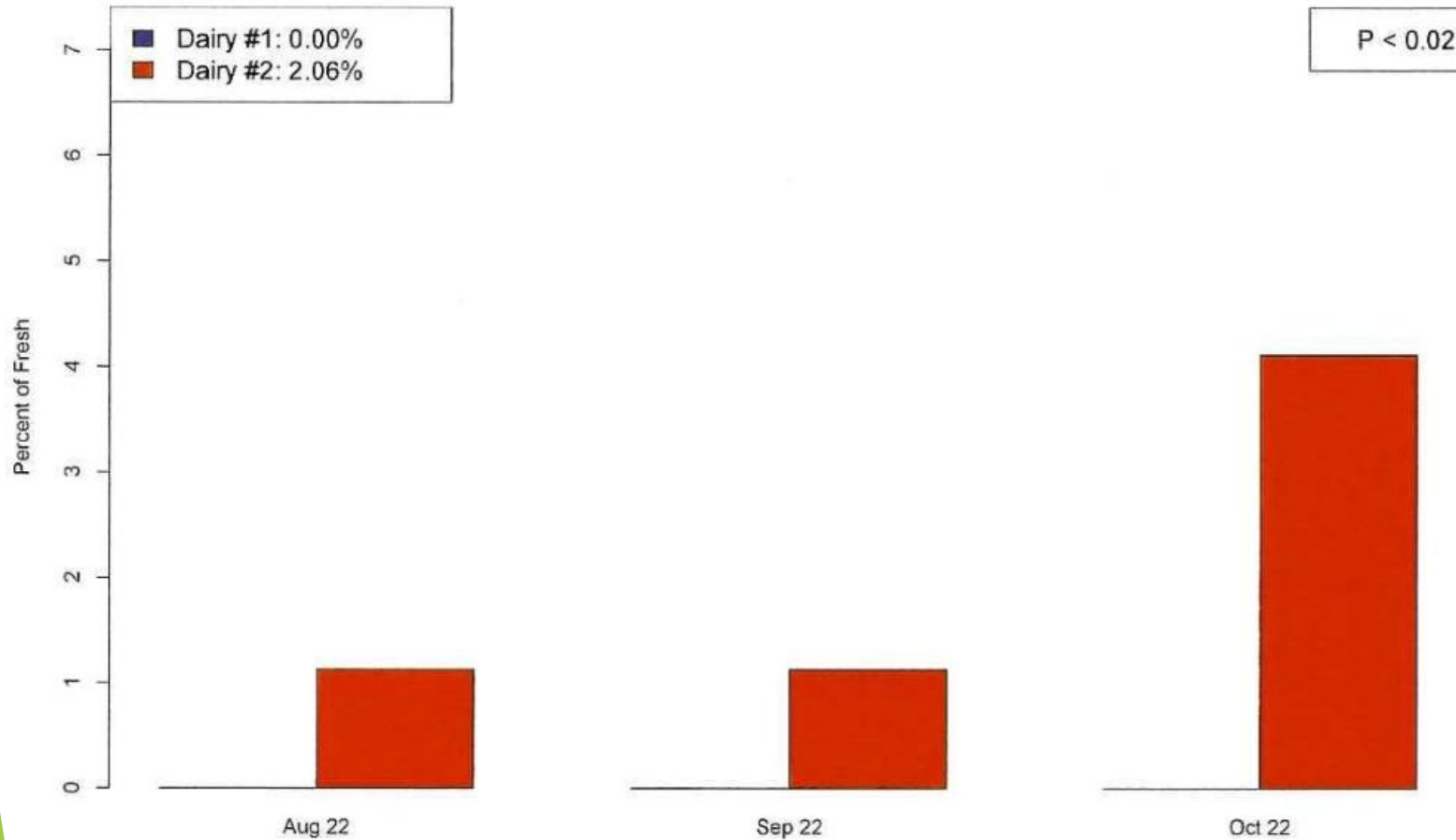


- ▶ Percentage of cows with mastitis was lower at Dairy #1 compared to Dairy #2 ($P \leq 0.01$)
- ▶ Nearly a 50% reduction

Lame Cows, % of Fresh (Daily #1 vs Daily #2)



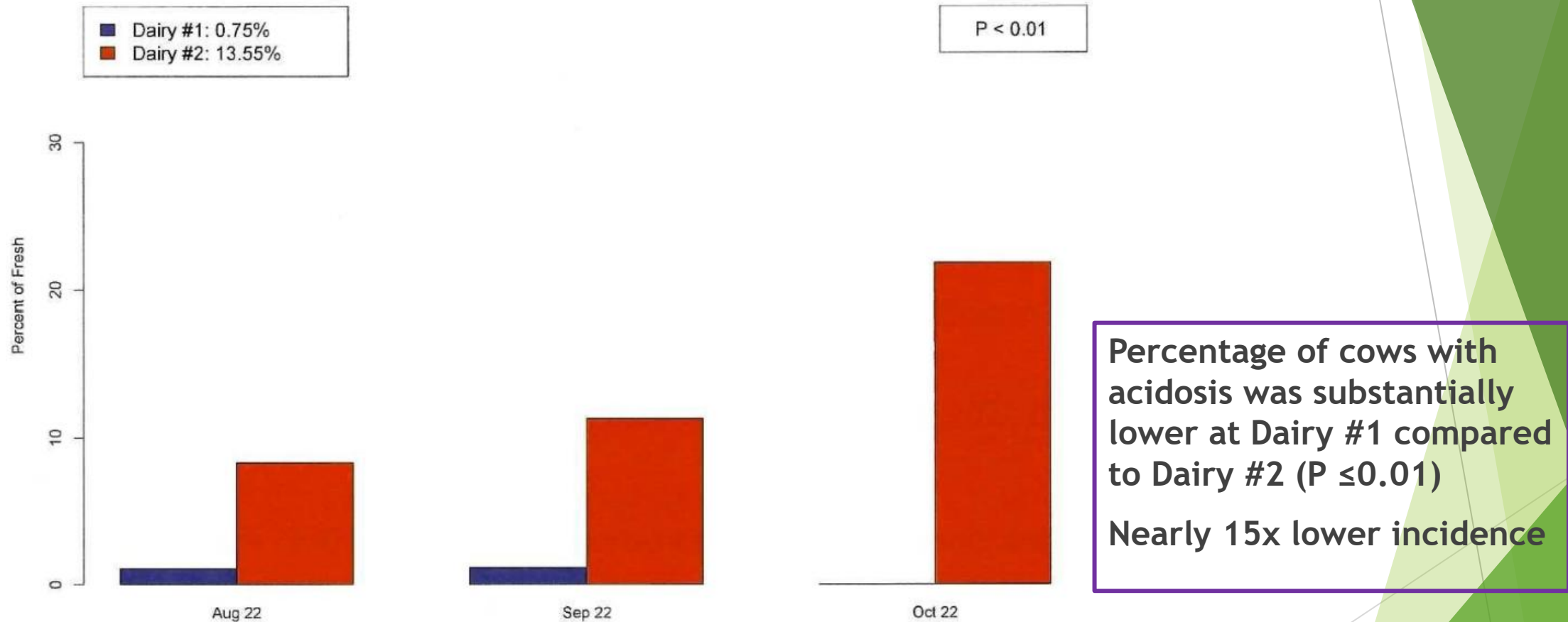
Stomach Problems, % of Fresh (Daily #1 vs Daily #2)



Percentage of cows with stomach problems was substantially lower at Dairy #1 compared to Dairy #2 ($P \leq 0.02$)

Is this event being used currently at Dairy #1, or is it obsolete?

Acidosis, % of Fresh (Daily #1 vs Daily #2)



Conclusions - Dairy #1 2021 & 2022

► Performance

- First test day milk was 6 lbs greater in 2022 than in 2021
- First test day energy-corrected milk yield was 5.5 lbs greater in 2022 than in 2021
- First test day milk protein percentage was greater in 2022 than in 2021 ($P \leq 0.03$) by 0.09 percentage units.
- First test day milk protein yield was 0.26 lb/cow greater in 2022 than in 2021

► Animal Health

- No difference or improvements in the percentage of Health Events and Herd Exits

Conclusions - Dairy #1 vs. Dairy #2 2022

► Performance

- First test day milk yield was 7lbs greater at Dairy #1 than at Dairy #2
- First test day energy-corrected milk yield was over 6 lbs greater at Dairy #1 than at Dairy #2
- Close-up pens at Dairy #1 consumed 1.3 lb/cow/d more dry matter than close-up cows at Dairy # 2
- High pens at Dairy # 1 consumed 3.62 lb/cow/d more dry matter than high pens at Dairy #2

► • Animal Health

- Percentage of cows with metritis was substantially lower at Dairy #1 compared to Dairy #2. Nearly 3x lower incidence
- Percentage of cows with mastitis was lower at Dairy # 1 compared to Dairy #2. Nearly a 50% reduction
- Percentage of cows with acidosis was substantially lower at Dairy #1 compared to Dairy #2. Nearly 15x lower incidence