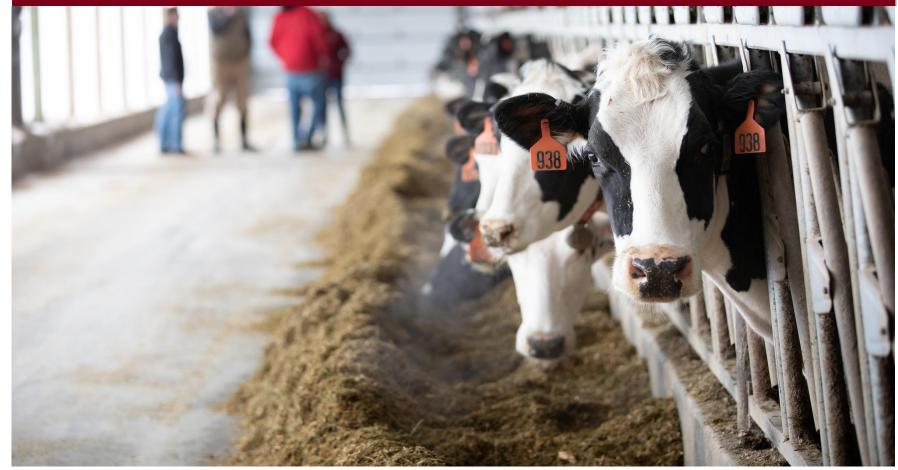
Building Resilient Dairy Farms Extension Program Overview





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EXTENSION

Agricultural resilience is about equipping farmers to absorb and recover from shocks and stresses to their agricultural production and livelihoods. "

- FARMING FIRST







MN DAIRY FARMERS NEEDS







Stay in Business Improve their profit margins

Empirical Reccomendations



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STUDY GOAL

To identify the characteristics of resilient farms that impact farm financial health





DEFINITION OF RESILIENT

- Top 25% adjusted net farm income ratio for the majority of years
 - Adjusted net farm income ratio =
 - after-tax income ratio modified for reduced costs associated with farm producing feed
- Resilient Farm:
 - 3 out of the 6 years



PARTNERS







Southwest Minnesota Farm Business Management Association







PARTNERS

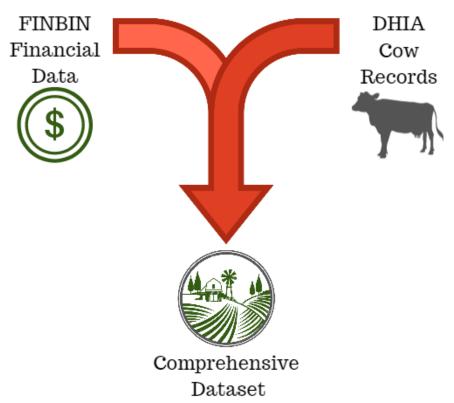
FINBIN Dairy Farmers





DATA SOURCE

Data Merge



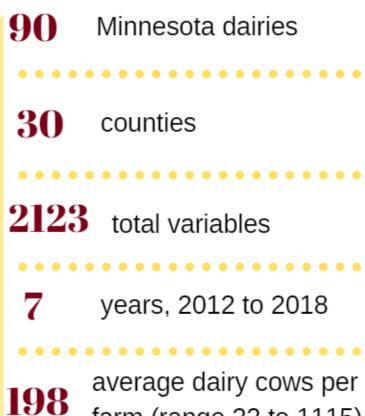
Data was provided by the Center for Farm Financial Management for 90 farms

- Herds were based in Minnesota
- Data collected from 2012 to 2018



THE DATA

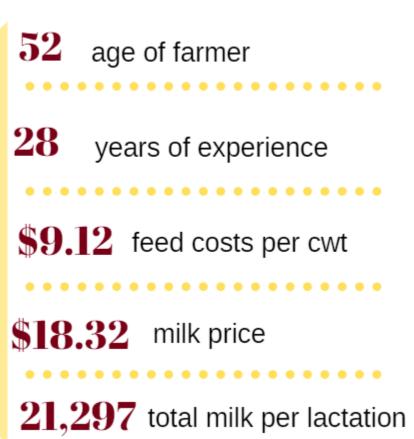






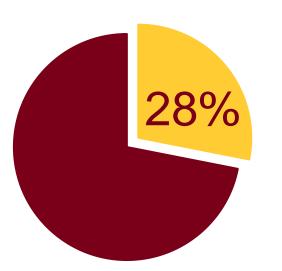
THE FARM







RESILIENT FARMS





Average cost net farm income



Mixture of herd size, more small herds

25 of 90 farms were resilient

Age of principle farmer was 10 years younger

0.29 Average net farm income ratio



DATA ANALYSIS

Relationship bewteen ...





Creating financial weigthing mechanism

Animal Health Culling Decisions Farm Finances Financial Leverage

Adaption

... and farm resiliency



RECOMMENDATIONS





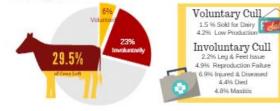


Milk quality premiums over volume Have a plan and stick too it regardless of milk prices Younger farmers and value educational oppurtunities





Culling Reasons



Why Culling Decision Matter



expense

IBIN Update v 2019 | Minneapolis, MN

Cow longevity increases

Management practices

profitability

can affect culling rates

Developed and Presented by Amber Roberts | Master's Candidal Dr. Joleen Hadrich | Extension Econom

Building Resilient Dairy Farms Is Bessie Better?



X

It's no secret that dairy farmers have favorites, but do favorite cows perform better than the rest of the herd?

HELLO

Favorite Cows

Total Milk

· % Culled

July 2019 | Minneapolis, MN

FINBIN Update

Total Butterfat or Protien

. Length of Time in Herd

Average SCC score

Heifer survival rate

· Financial Measures

Definition

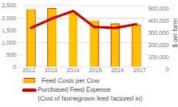
- · Cows whose names were included in the database as opposed to a number ID · Every herd had favorite cows listed · 8.5% of cows were favorite cows
- In Conclusion · No statistically significant difference

The decision to name a cow is a between favorite and non-favorite cows: farmer's personal choice. Named cows did not perform differently from their herdmates and there were no financial advantages associated with these cows. Farmer continued to make rational management decisions towards their favorite cows, culling at the same rate as non-favorite cows.

> Developed and Presented by Amber Roberts | Master's Candid oleen Hadrich | Extension Econor Dr. Joh



Average Feed Costs



Resilient Farms

Resilient farms had higher milk price to feed margin. While there was no statically significant difference between resilient and non-resilient farm average feed cost per cows, being a resilient farm was associated with a \$0.52 per cwt increase in milk price received.

Feed costs are the largest

variable expense for dairies. Accounting for an average of 47% of total expenses of the studied dairy farms. However, this percentage can range from 40-60% for dairy farms in Minnesota.

10.1Average milk price to feed margin



Average cost of purchased feed

More info coming soon.

5% more

pastureland

FINBIN Update July 2019 | Minneapolis, MN

Developed and Presented by Amber Roberts | Master's Candida Dr. Joleen Hadrich | Extension Economis

AND MORE COMING SOON!



PROGRAMS GOALS

- Increase knowledge of resilient dairy practices
 - Producers can recognize recommendations that can benefit their operation
- Improve financial benchmarks
 - Implement of recommendations to be included into FINBIN reports
- Farmers implement recommended practices
 - Increase the average adjusted net farm income for Midwest dairy producers



EDUCATIONAL OUTPUTS

Shared with Farm Business Professionals







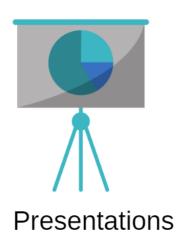
Journal Articles

Webinars



EDUCATIONAL OUTPUTS

Shared with Farmers





Publications



Social Media



FINBIN reports





EVALUATION

- Written survey at the end of presentation
- Questions in the Q&A for the Webinars
- Feedback from Farm Business Management Educators
- Questions added to FINBIN





Thank You! Any Questions?

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