Dairy Financial Health Check-up: Key Measurements and Prescriptions

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Three Areas of Sustainability

- 1. Financial
- 2. Personal
- 3. Environmental



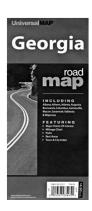






Keys to Having a Sustainable Business

- 1. Determine where you want to go.
- 2. Decide how to get there.
- Monitor your progress and make necessary adjustments.
- 4. Repeat as necessary.





Practically Speaking

- Mission Statement What are we doing here?
- Goals SMART (Specific, Measurable, Attainable, Relevant, Timely).





SMART Goals

- * **S**pecific Precisely state what you want to do.
- * Measurable Assign an observable value to your goal. You can't manage it if you can't measure it.
- * Attainable Aim high, but be realistic.
- * Relevant if achieved will it matter?
- * Timely set a measurement time.



Examples of Good SMART Goals

*	"Re	milking .	 cows	ın	у	ears.′′	
	// -						

- * "Reduce purchased feed or grain cost to ______% of expenses by ______"
- * "Have the farm paid-off (debt-free) in ____ years."
- * "Take _____ hours off each week/month/year beginning in _____."
- * "Watch the kids play _____games this year."





Practically Speaking

- 1. Mission Statement What are we doing here?
- 2. Goals SMART (Specific, Measurable, Attainable, Relevant, Timely).
- 3. Develop plans to achieve these goals.
- 4. Evaluate your progress in meeting these goals.
- 5. Review and adjust as necessary.



Today's Objective

- 1. Present some Key Performance Indicators (KPI) for financial sustainability.
- 2. Help you set realistic goals.
- 3. Give you information about a way you can monitor your progress to that end.







Three Keys to Financial Sustainability

- 1. Profitability
- 2. Liquidity
- 3. Solvency



Three Keys to Financial Sustainability

- 1. Profitability indicates that value exceeds cost and is vital for long-term viability of any business.
- 2. Liquidity indicates that the business can pay its bills as they come due.
- 3. Solvency indicates the relative value business versus what is owed.







Financial Instruments You Will Need

- * Farm production records
- * Balance Sheets (AKA Financial Statement) for beginning and ending of the year
- * Statement of Cash Flows (where did the money come from and where did it go)



Example Farm



Key Measures of Financial Key Measures Sustainability

Profitability

Return on Assets (ROA)

Return on Equity (ROE)

Operating Profit Margin

Solvency

Debt to Asset Ratio

Equity to Asset Ratio

Debt to Equity Ratio

Liquidity

Current Ratio

Working Capital

Working Capital Rule

Check-up time



 $NFI = \frac{Cash\ Receipts \pm Inventory\ Change - Expenses - Depreciation}{Number\ of\ Operators\ or\ Families}$



Profitability - NFI

Accounts Receivable

- Accounts Payable
- + Feed & Hay
- + Value of growing crops
- + Value of Market Livestock
- + Prepaid Expenses
- = Inventory





Decision-aid



Profitability - ROA

 $ROA = \frac{NFI + Farm\ Interest\ Exp.\ -\ Operator\ Mgmt.\ Fee}{Average\ Total\ Farm\ Assets}$





Decision-aid



ROA Performance

Measure	Strong	Stable	Weak
ROA – Mostly Owned	5%+	1-5%	1% or less
ROA – Mostly Rented	12%+	3-12%	3% or less





Solvency

Relative Financial Strength

Solvency – Debt/Asset Ratio

Debt - Asset Ratio = $\frac{\text{Total Farm Liabilities}}{\text{Total Farm Assets}}$





Decision-aid



Debt-Asset Performance

Measure	Strong	Stable	Weak
Debt-Asset	40% or less	40-65%	65%+





Liquidity

Can you pay your bills?

Liquidity – Current Ratio

 $Current Ratio = \frac{Total Current Assets}{Total Farm Liabilitie s}$





Decision-aid



Current Ratio Performance

Measure	Strong	Stable	Weak
Current Ratio	150%+	100-150%	100% or less





Liquidity – Working Capital Rule

Working Capital Rule = $\frac{\text{Working Capital *}}{\text{Total Expenses}}$

* Working Capital = Total Current Assets - Total Current Liabilities



Profitability - NFI

Decision-aid







Working Capital Rule Performance

Measure	Strong	Stable	Weak
Working Capital Rule	50%+	20-50%	20% or less



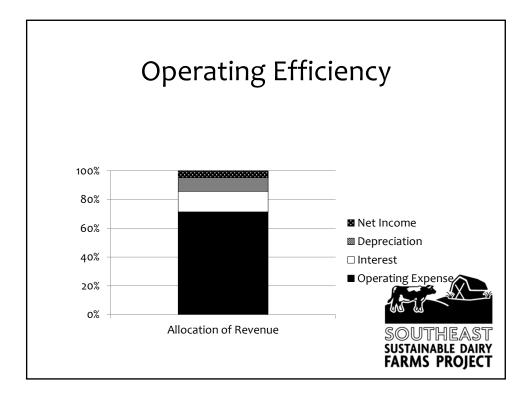
KPI Performance Summary

Measure	Strong	Stable	Weak
ROA – Owned	5%+	1-5%	1% or less
ROA – Rented	12%+	3-12%	3% or less
Debt/Asset	40% or less	40-65%	65%+
Current Ratio	150%+	100-150%	100% or less
Working Capital Rule	50%+	20-50%	20% or less



Operating Efficiency

Where does the money go?





Operating Efficiency

 $Operating Expense Ratio = \frac{Total Cash Farm Expense-Interest-Depreciation}{Gross Farm Income}$

 $Depreciation ExpenseRatio = \frac{Depreciation}{Gross Farm Income}$

 $InterestExpenseRatio = \frac{FarmInterest}{GrossFarmIncome}$

 $Net Farm Income Ratio = \frac{Net Farm Income}{Gross Farm Income}$

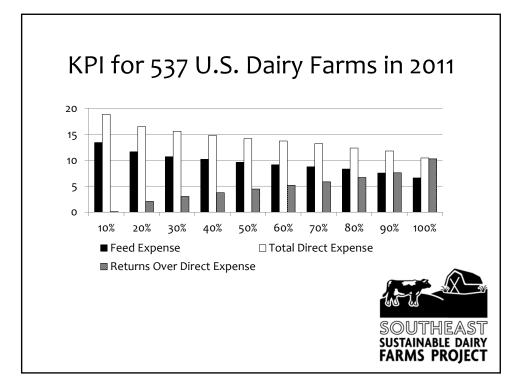
Operating Efficiency Ratios Summary

Measure	Strong	Stable	Weak
Operating Expense	60% or less	60-80%	80%+
Depreciation	5% or less	5-15%	15%+
Interest	5% or less	5-10%	10%+
Net Farm Income	20%+	10-20%	10% or less

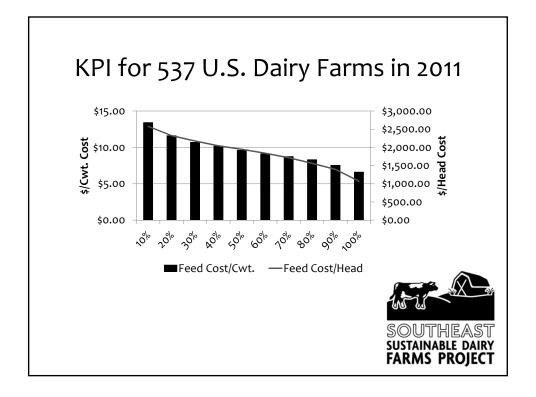


Review and Adjust









Tools to Help

- * UGA-UF Benchmarking program
- * AgPlan www.agplan.umn.edu







Summary

- 1. Financial measures are just as (more?) important as production measures.
- 2. To be meaningful, measures must be associated with a goal.
- 3. The key components to financial sustainability are:
 - 1. Profitability
 - 2. Liquidity
 - 3. Solvency
- 4. If you must choose one measure use ROA
- 5. Consider enrolling in the UGA-UF Benchmarking program to monitor your progress.

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FARMS PROJECT