

Victor E. Cabrera & Jenny Vanderlin



Management U

Benchmarking

>Monitor relationships of:

- >Income generation
- Investment control
- Debt control
- Operating cost control
- Underlies important financial strengths and weaknesses
- >Advisable not to use a single benchmark
- Important comparisons could be done using ROROA, ROROE, ATO, OPM, DuPont Analysis



Financial Indicators

- Sweet-15 financial measures: some people may use more, some people may use less
- Five clusters of financial indicators are always needed
 - 1. Liquidity
 - 2. Solvency
 - 3. Profitability
 - 4. Repayment Capacity
 - 5. Financial Efficiency

>Sweet-15 financial analysis measures

> Benchmarking with +500 Wisconsin farms (AgFA)

Cluster analysis

≻Year

Herd size: 50, 100, 150, 300, >300

Income/cow: \$4,000, \$4,500, \$5,000, >\$5,500

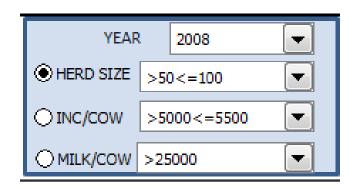
Milk/cow: 16,000, 19,000, 22,000, >25,000

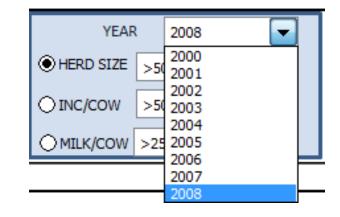
DuPont analysis
ROROA = ATO * OPM

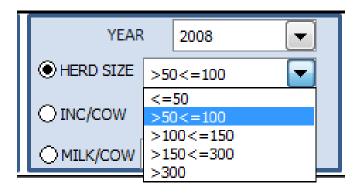
	ry Farm Ratio Benchmarking abrera & Jenny Vanderlin GENTER FOR DALEY PROFITABILITY		Herd Size (a) Inc/Cow (b) Milk/Cow (c)	Year 2000 ▼ <50 ▼ <40000 ▼ <16000 ▼
Overview Liquidity S	olvency Profitablility Repayment	Efficiency Du Pont	Summary D	Definitions
Liquidity		Curent Ratio		
		Your Current Ratio 1.5 Info		
	1 1.1 1.7 0.9- 0.8- 0.7- 0.6- 0.5- 0.4- 0.3- 0.2- 0.1- 0 0 1 2 3 4	5 6 7 8 CurrentRatio	9 10	11 12
	N	let Working Capital (NWC)		

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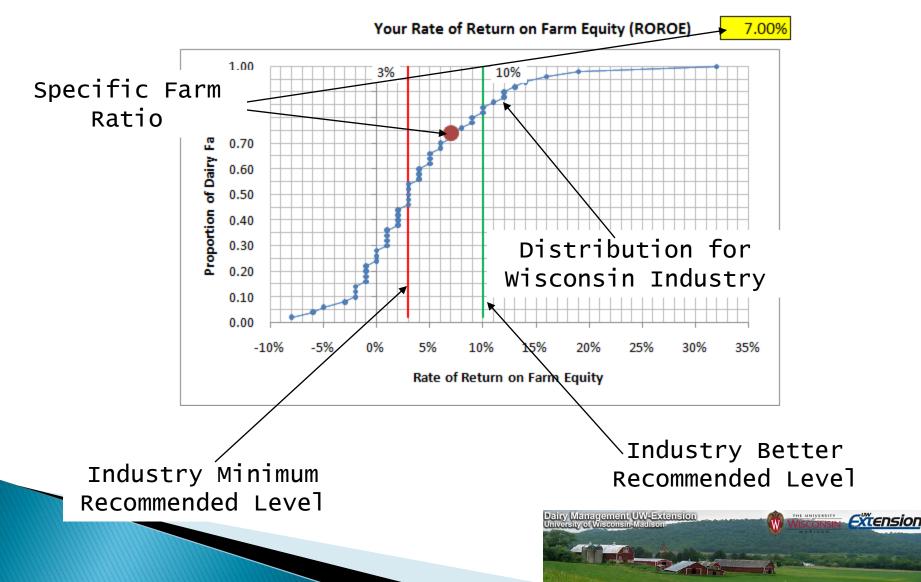
Extension













Du Pont Analysis						
	Rate of Return on Assets (ROROA)%	Asset Turnover Ratio (ATO)	Operating Profit Margin (OPM) %			
Wisconsin Farms	2.18	0.369	5.92			
Your Farm	6	0.4	15			

For every dollar invested in assets you had **\$0.06** of profit, for every dollar invested in assets you had **\$0.4** of revenue and for every dollar of total revenue you had **\$0.15** of profit. Consequently your rate of return of **6**% is **0.4** of total revenue times **0.15** of profit.



Overview Liq	uidity Solvency Profitablility Re	epayment Efficience	y Du Pont	Summary Defin	nitions
	Ratio	Wisonsin Ratio	Your Ratio	Percentile	
	Current Ratio (CR)	5.56	1.5	22]
	Net Working Capital (NWC)	141797.08	50000	26]
	Debt/Asset Ratio (D/A)	24.16	35	28]
	Equity Asset Ratio (E/A)	77.86	65	24]
	Net Farm Income (NFI)	28614.42	50000	86]
	Return on Farm Assets (ROROA)	5.14	6	74]
	Return on Farm Equity (ROROE)	1.6	5	76]
	Operating Profit Margin (OPM)	5.92	15	70]
	Term Debt Coverage Ratio (TDCR)	152.34	140	58]
	Replacement Margin (RM)	18381.32	50000	84]
	Asset Turnover Ratio (ATO)	36.9	40	80]
	Operating Expenses Ratio (OER)	67.7	70	38]
	Depreciation Expenses Ratio (DER)	11.1	10	60	
	Interest Expense Ratio (IER)	3.48	8	16	
	Net Farm Income Ratio (NFIR)	18.94	15	36	



DairyMGT.info



Dairy Management

Dairy Management site is designed to support dairy farming decision-making focusing on model-based scientific research. The ultimate goal is to provide user-friendly computerized decision support systems to help dairy farms improve their economic performance. Dr. Victor Cabrera focuses on model-based decision support in dairy cattle and in dairy farm production systems. Dr. Cabrera's primary interest is to improve costefficiency and profitability along with environmental stewardship in dairy farms by using simulation techniques, artificial intelligence, and exper systems. Dr. Cabrera's research and Extension programs involve interdisciplinary and participatory approaches towards the creation of userfriendly decision support systems. As an Extension Specialist, Dr. Cabrera works in close relationships with county-based Extension faculty, dairy producers, consultants, and related industry.

Latest Projects Contact Dairy Cow Fertility Strategies of Pasture Supplementation Success for Small Dairy Farmers LGM-Dairy Dairy Economic Decision Support System O UW University of Wisconsin - Madison UW - Cooperative Extension UW - Dairy Science

Understanding Dairy Markets

Dairy News

UW-Extension Dairy News

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TOOLS



by DairyMGT



Dairy Management Tools

9 The Wisconsin Dairy Farm Ratio Benchmarking Tool

Financial

The Wisconsin Dairy Farm Ratio Benchmarking is a spreadsheet based tool especially created for this project. It compares dairy farm's financial status with +500 dairy farms in the State of Wisconsin. Excel SpreadSheet (Download)

Web Based (Online)

WI Dairy Ratio Benchmarking Tool.mov



Wisconsin Dairy Farm Ratio Benchmarking Tool



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O Decision Support System Program for Dairy Production and Expansion

Optimum Coverage for LGM-Dairy Insurance

- **O** LGM-Dairy Premium Sensitivity
- O Return to Labor
- Estimate Your Mailbox Price
- O Loan Calculator
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