

What is financial risk?

- Comparison to playing soccer
- In terms of balance sheet
 - Most risks are on the asset side.
 - Financial risk is on the liability side
- Arise from the composition and terms of the various financial claims on the firm

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Risks are interrelated

- Financial, production, and marketing risks are interrelated
 - Example: Ability to repay term debt is dependent on grain prices and yields.
- Need to consider all risks when developing strategies

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Balance Sheet v Income Stmt

- Balance Sheet
 - a point in time measurement
 - "snap-shot" view
- Income Statement
 - measurement over time
 - "movie camera" view

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Balance Sheet

- def is a systematic listing of all that the business owns (assets) and all that it owes (liabilities) at a specific moment in time
- Assets classified according to their liquidity
 - Current cash and near-cash items whose values will likely be realized in cash or used up during the normal course of business
 - Noncurrent assets that yield services to a business over several years.
- Liabilities also classified as current and noncurrent

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Using a Balance Sheet

- What do you own?
 - Assets
- What do you owe?
 - Liabilities
- What's the difference
 - Net Worth

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Format of balance sheet

Assets

Liabilities

Current assets < 1 yr to cash

Current liabilities

Non-current assets

Non-current liabilities

> 1 yr to cash

Owners equity

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What a balance sheet shows

- Liquidity
 - describes the ability to meet obligations as they come due in the short run.
 - Current Ratio______

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What a balance sheet shows

- Solvency
 - refers to the difference between your assets and liabilities
 - Debt/Asset ratio_______
 - Equity/Asset ratio_______
 - Debt/Equity ratio_______

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Financial Analysis

- Recommended ratios of the FFS committee
 - Liquidity
 - Current ratio
 - Working Capital
 - Solvency
 - Debt/Asset ratio
 - Equity/Asset ratio
 - Debt/Equity ratio

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Ratios (cont)

- Profitability
 - Rate of return of farm assets
 - Rate of return of farm equity
 - Operating profit margin ratio
 - Net farm income
- Financial Efficiency
 - Asset turnover ratio
 - · Operating expense ratio
 - Depreciation/Amortization expense ratio
 - Interest expense ratio
 - Net farm income from operations ratio

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Current Ratio

- Computation: CA/CL
 - Interpretation: this ratio indicates the extent to which current farm assets if liquidated, would cover current farm liabilities.
- Limitations:
 - static concept
 - ignores lines of credit
 - "current" means one year
 - affected by value of assets
 - ratio can vary throughout the year

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Working Capital

- Computation: CA CL
- Interpretation: is a theoretical measure of the amount of funds available to purchase inputs and inventory items after the sale of current farm assets and payment of current farm liabilities
- Limitations:
 - absolute measure
 - varies by type of business
 - static or stock concept
 - other points as noted for current ratio

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Debt/Asset Ratio

- Computation: Total farm liabilities ÷ Total farm assets
- Interpretation:measures financial position; it expresses the risk exposure of the business; can be calculated using either cost or market value of assets.
- · Limitations:
 - value is influenced by the value placed on farm assets.
 - reasonable value vary by farm.

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Rate of Return on Farm Assets (ROA)

- Computation: (NFIFO + interest expense unpaid labor)
 ÷ Ave total farm assets
- Interpretation: an overall index of profitability.
- Limitations:
 - withdrawals for family living are often used as a proxy for unpaid labor.
 - low compared to non-farm investments
 - · valuation of assets affects value
 - non-farm income and assets can affect ratio
 - business structure can affect ratio

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Rate of Return on Farm Equity

- Computation: (NFIFO unpaid labor)÷ farm equity
- Interpretation: this ratio measures the rate of return on equity capital employed in the farm business.
- Limitations:
 - similar to ROA
 - a high ratio is normally good but could indicate undercapitalization or highly leveraged farm business.

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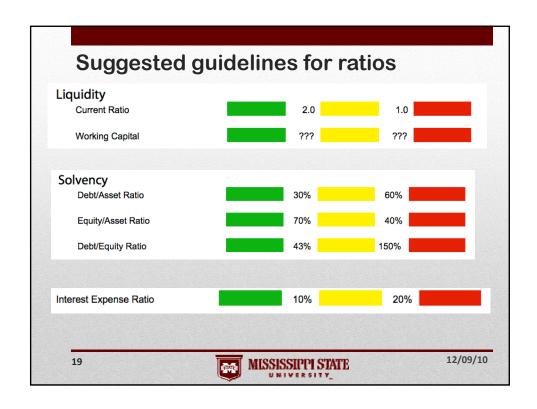
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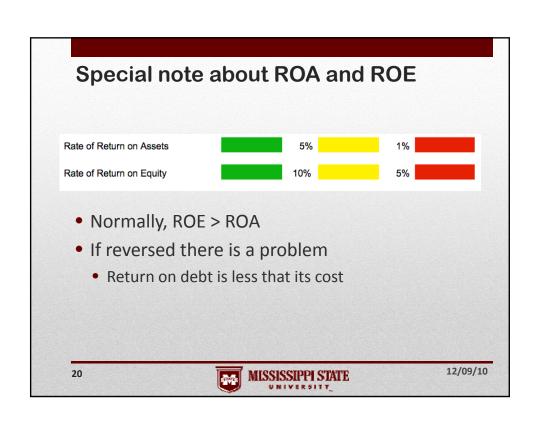
Operational Ratios

- Interest expense ratio
 - Interest expense ÷ Value of farm production
 - VFP is the gross revenue that is actually generated on the farm
- Limitations:
 - ratios are very sensitive to the accuracy and reliability of the info used

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What is optimal level of debt and leverage

- Depends on
 - Profitability
 - Risk
 - Repayment capacity
 - Farmer's tolerance for risk

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Using balance sheet information

- If the problem is LIQUIDITY then possible solutions are:
 - refinance current debt
 - slow expansion
 - · reduce operating debt
 - · liquidate assets
 - cut costs
 - improve profitability
- If the problem is Solvency then possible solutions are:
 - retain more net income
 - · reduce debt
 - sell assets
 - · improve profitability

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Financial Responses to Risk

- Managing financial leverage
- Adjust pace of investment
- Hold credit reserves
- Use leasing programs
- Use multiple lenders
- Use formal insurance

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Management tools and strategies

- Good records
- Budgets
- Smart loans
- Reserves
- Renting and leasing
- Off-farm employment

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