



50 Presentations - Management
Accounting since 2003!

Producer Workshops

Bankers

Accountants

Educators

Consultants

NoTill/Conservation & Commodity Mtgs.

Agenda

Overview of FFSC & evolution from building Financial Analysis Guidelines to MA

Introduce Management Accounting & it's Importance to Sustainability of Ag Businesses

Link between MA and Strategic Decision Making

Introduce tools for using ABC

Review teaching strategies & grower experiences from early exposures of MA

Reference material available: www.ffsc.org, www.wittmanconsulting.com

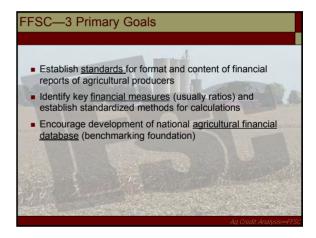
FFSC — History & Activity

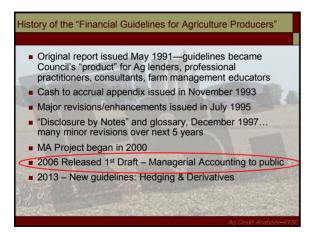
■ Organization
□ task force 1989; incorporated in 1993; name changed to FFSC in 1994
■ Structure — non-profit volunteer board with 40 members representing ...
■ Two primary meetings annually — Annual Meeting and Summer Symposium...now combined
■ Several working committees & task forces meet as needed

Significant Milestones prior to FFSC Formation

1st "standards" initiative – 1978 lead by FCA
Impact: first effort to standardize financial statement design & ratio analysis in FCS
FmHA involvement lead to adoption of CFS
Farm Crisis in 1980's –
Ireinforced importance of CDRC, professional financial analysis in credit extension
Still void in "one voice approach" for agriculture re: financial analysis standards and guidelines







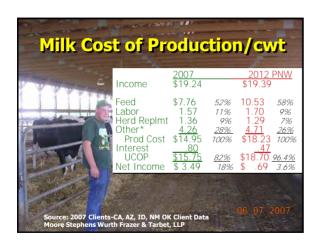


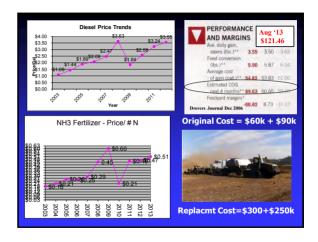


Where does U. S. stack up against world competitors in Cost of Production?









Benefits of MA Adoption

Optimizing equipment procurement strategies — buying, leasing, sharing, etc.

Understanding of overhead costs and strategies that streamline costs

Foundation for adding new ventures; shedding nonviable enterprises (Read Good to Great Jim Collins)

Improved marketing—based on cost of production, target margins
Foundation for evaluating segment managers

Threats — Living in MA Vacuum

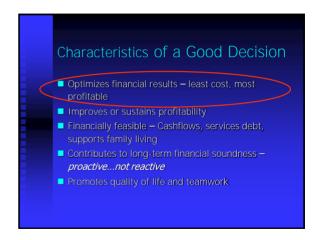
■ React too late to cost of production increase
(→ BIG danger in high price cycle)

□ Fuel, labor, equip, fertilizer, transportation
■ Can't isolate costs that are out of line
□ Direct Input Costs? ...or Indirect (Overhead)?
□ Consequence: No clue about corrective strategies





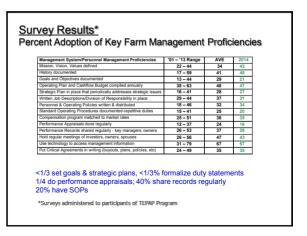




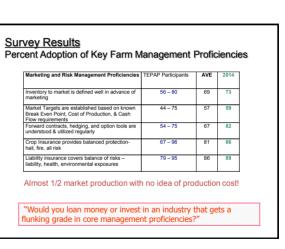




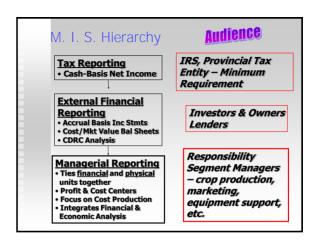




# Survey Results Percent Adoption of Key Farm Management Proficiencies Financial Management Proficiencies Financial Management Proficiencies Financial records spotiated and croulated monthly Balance shreets reflect cost and market values & febrered tax liability Balance shreets reflect cost and market values & febrered tax liability Balance shreets reflect cost and market values & febrered tax liability Balance shreets reflect cost and market values & febrered tax liability Balance shreets reflect cost and market values & febrered tax liability Balance shreets reflect cost and market values & febrered tax liability Balance shreets reflect cost and market values & febrered tax liability Balance shreets reflect cost and market values & febrered tax liability Balance shreets reflect cost and market values & febrered tax liability Balance shreets reflect cost and market values & febrered tax liability Balance shreets reflect cost and market values & febrered tax liability Balance shreets reflect cost and market values & febrered tax liability Balance shreets reflect cost and market values & febrered tax liability Balance shreets reflect tax tax liability Balance shreets reflect cost and market values & febrered tax liability Balance shreets reflect tax liability Balance







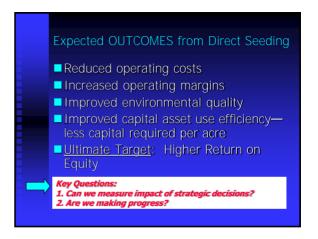
## Key Question for the Farm Manager: "How can managerial accounting be used to measure the impact of strategic decisions?"





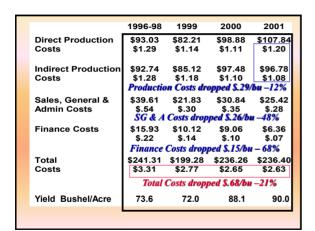




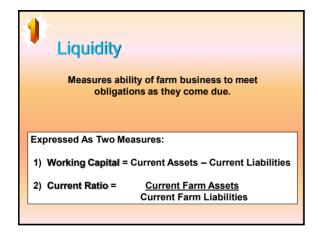


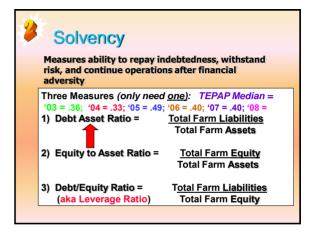


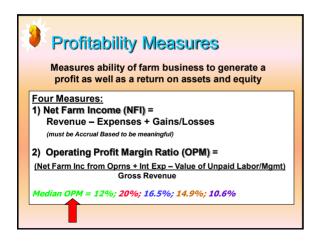


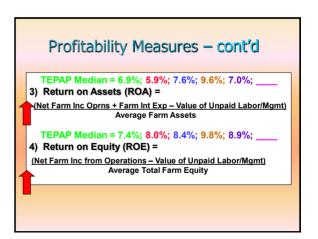


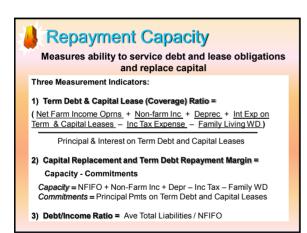










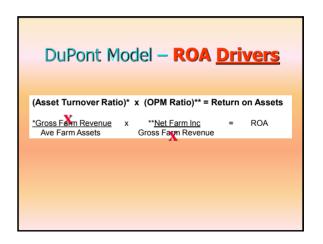


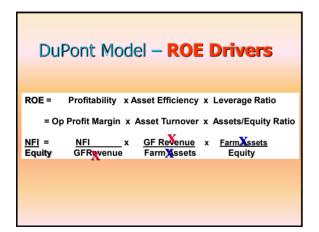


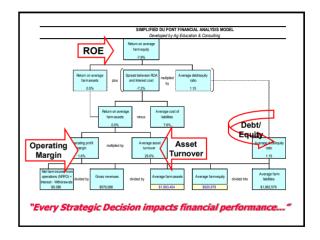
## Financial Efficiency Measures Asset Turnover (ATR) Measures how efficiently a farm's assets are being used to generate revenue. Median = .63:1; .49:1; .55:1; .36:1; .35:1 Expressed as: Asset Turnover Ratio (ATR) = Total Revenue Average Total Assets Q1. Can these numbers be benchmarked? Q2. What is your #, how has it changed and why?

#### Making the Connection - Dupont Model to Managerial Accounting Financial ratio analysis provides "whole farm business" perspective DuPont Model provides analytical "branches" for managerial accounting to go to next level Leads to responsibility center analysis Focuses on key drivers of financial performance Answers more clearly "causes effect" of strategic & operating decisions

#### DuPont Model — Looks @ Big Picture & Inter-Relationships Developed early 1900s at DuPont Shows how bottom line performance (ROA & ROE) affected by key drivers: Asset Use Efficiency (Turnover Ratio) Operating Efficiency (Operating Profit Margin) Financial Leverage (Assets to Equity Ratio)





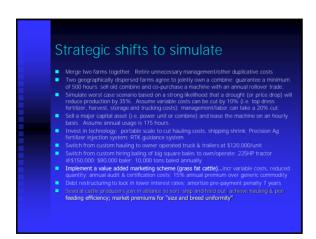


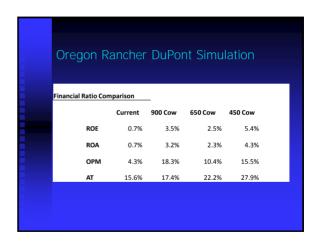
7. raic	of Two Tilla	-
	Conventional	Direct Seed/NT
ATR*	.50	1.05
OPMR	.1275	.1633
ROA	6.47%	17.14%
ROE	3.88%	22.61%
	change occurred in finite amount of ca	



Dupont Model –	Data Set	Case A	Case B	Case C	Case D
	Revenue	\$776,000	\$853,600		
Simulation	Var Oper Costs	499,000	548,900		
Exercise	Fixed Op Cost	95,000			
EXCI CISC	Interest Costs	78,000			
	Net Farm Income	104,000			
Review Cases A – D; test	Labor/Mgmt W/D	60,000			
data	Average Assets	1.800.000	-		
Test Alternative Strategies	Ave Liabilities	1.000.000			
1. Identify strategic shift	Average Equity	800,000			
2. Develop \$ changes in					
operation	OPM	15.7%	17.5%		
	ATR	43.1%	47.4%		
3. Enter revised \$	ROA	6.8%	8.3%		
compared to baseline (Case A)	ROE	5.5%	9.0%		
4. Record data changes	Case A – Baseline data	- grain and liv	estock operation	on	
and revised ratios on worksheet.	Case B – Grow 10% (assume unused capital and mgmt) Revenue & variable operating costs go up 10%.				
	Case C - Increase cost efficiency by 10%. Operating costs decrease \$49,900				
	Case D – Reduced asse of drill & power unit. Fina \$10,000 (Fixed Costs). V	incial impacts:	Assets & deb	ts -\$200,000;	Depreciation

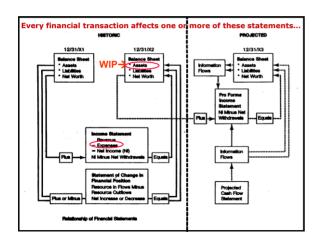


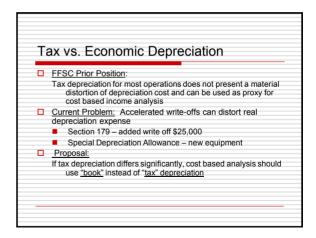


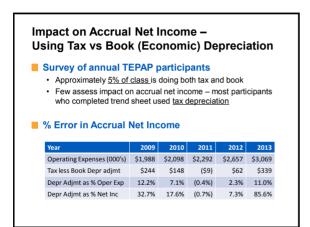




Month	Monthly Net Income	Year to Date Net Income	YTD NI as % of Tot Yr NI	Month End Net Worth	% Change from Beg NW
Beg of Yr				\$ 376,334	
January	\$ 22,419	\$ 22,419	23.6%	\$ 398,753	6.0%
February	\$ 25,205	\$ 47,624	50.1%	\$ 421,959	12.1%
March	\$ (28,781)	\$ 18,843	19.8%	\$ 393,177	4.5%
April	\$ (132,953)	\$ (114,111)	-120.1%	\$ 211,298	-43.9%
May	\$ (14,732)	\$ (128,842)	-135.6%	\$ 196,566	-47.8%
June	\$ (81,326)	\$ (210,168)	-221.2%	\$ 115,240	-69.4%
July	\$ (27,570	\$ (237,738)	-250.2%	\$ 87,670	-76.7%
August	\$ 112,079	\$ (125,659)	-132.3%	\$ 199,749	-46.9%
September	\$ 151,387	\$ 25,727	27.1%	\$ 351,136	-6.7%
October	\$ 6,135	\$ 31,862	33.5%	\$ 357,271	-5.1%
November	\$ (230,138)	\$ (198,276)	-208.7%	\$ 122,133	-67.5%
December	\$ 293,283	\$ 95,007	100.0%	\$ 474,453	26.1%





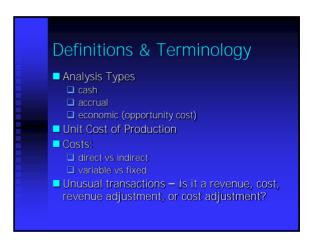






## Core Concepts (cont'd) 4. Core transactional information is accumulated, then supplemented with economic analysis 5. Follows GAAP, commercial industry practice, multi-commodity applicability 6. Must accommodate multiple period production cycles – (crop, livestock, perennials)

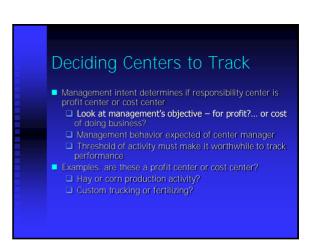
### Implementation Issues Accounting versus economic analysis Identifying manageable segments Profit/Cost center report formats Handling unusual transactions – cost recovery, revenue adjustments Definitions: direct vs indirect; variable vs fixed Integrating financial and physical quantities (\$, bu, acres, employees) Transfer pricing Alternatives for allocating indirect costs/overhead Other technical issues Inventory valuations Equipment gains/losses Tax vs book depreciation indirect; variable vs fixed



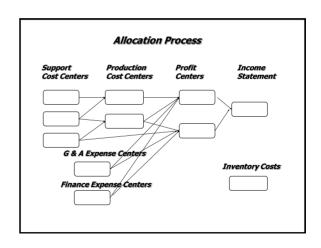








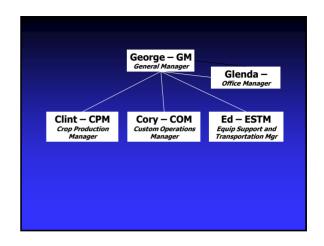
## Center Types Production (production stages, activity sequences) Support operations Sales, general and administrative (SG&A) Financing



### Allocation Procedures Define objective and measurable manner in which one cost center supports another cost or profit center Ultimately, all cost centers are allocated to profit centers Keep product costs and period expenses separate Do not allocate SG&A and Financing to production focused cost centers—these are period costs that should not be capitalized in inventory



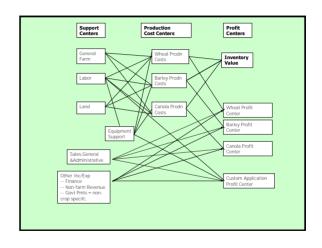




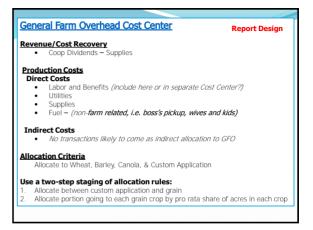
## Case Solution Task #1 – Define profit centers Task #2 – Define cost centers and accounts that would normally have activity in each center Task #3 – Define allocation methodology and sequence for linking various cost centers





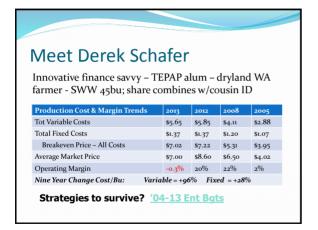






Question – "How has inflation in machinery costs over last 10 years affected my cost of production?"



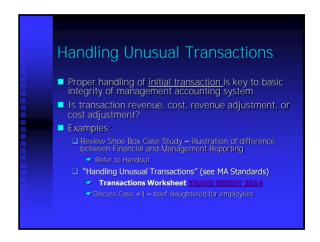


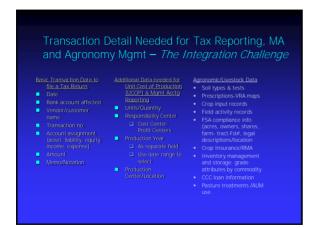






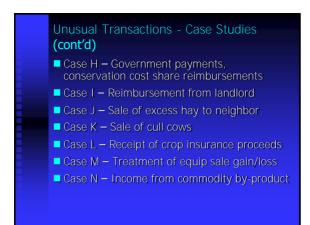


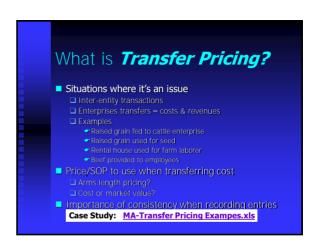




Case Illustrations — Unusual Transactions

Case A — Equipment Rental Income
Case B — Custom apply & re-sell fertilizer
Case C — Sell surplus machinery repair parts
Case D — Receive Yr-End Quantity Discount
Case E — State/Federal fuel tax refunds
Case F — Sale of raised wheat for seed
Case G — Custom haul grain for neighbor





### Results from Teaching Exposures Concept is complex...but teachable Revived interest – Financial Ratio Analysis, particularly: OPM. ATR, ROA & ROE Growers have actually completed template worksheets for the Profit and Cost Centers; many others "working on it" General consensus; Producers need to master MA, but HUGE learning/implementation curve Primary Motivator, - "Fear factor"... growers may lose competitive edge if they can't get this figured out



#2 Conclusion – MA design needs to mirror business management structure

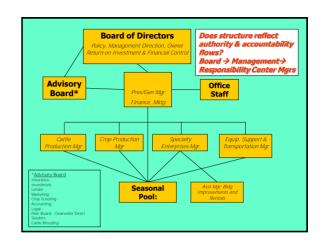
MA core premise: desire to measure performance by manageable segment

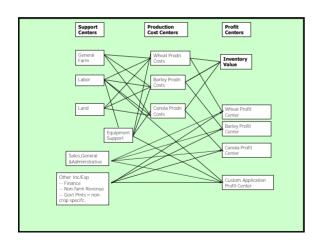
Grower attempts to implement MA expose poorly delineated accountability

MA provides a "teachable moment" for reevaluating personnel management (see Organization Chart & Center Design)

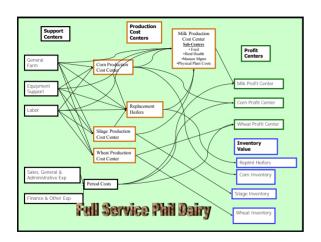


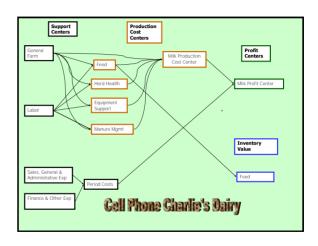


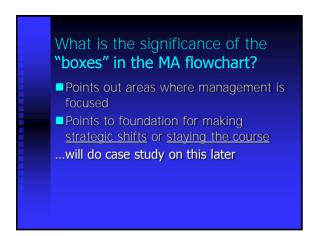


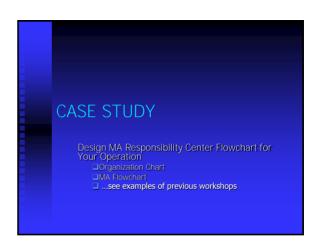


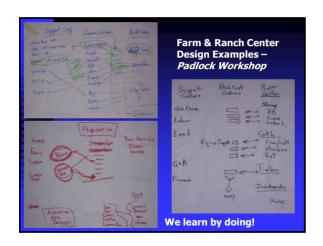












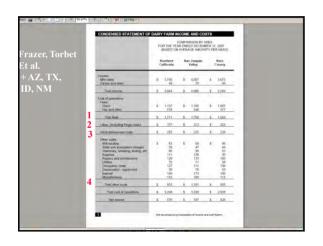




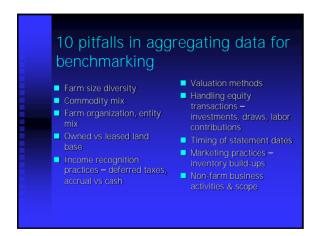






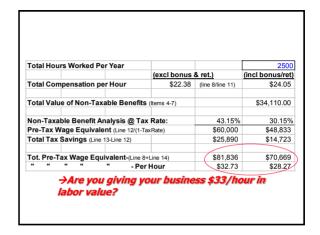


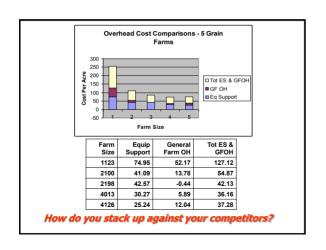


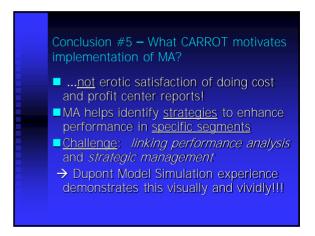


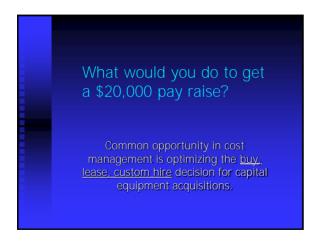


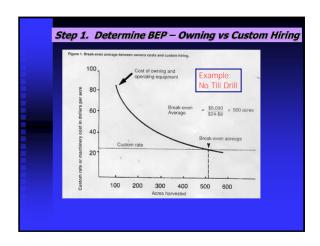
Compensation Summary		Name:	Jody Owner-Operator		
			Year:	2000	
	Period	Rate/Mo		No Mos.	Yearly Tot
Salary	Nov-Feb	\$2,000	Base	12	\$24,000.0
		Rate/Hr	Hrs/Mo		
Wages	Mar-Oct	\$0.00	250	0	\$0.0
	Cash Salai	y & Wages Su	btotal:	\$24,000.00	
Social Security Benefit - % Rate:		7.65%		\$1,836.0	
			Rate/Mo		
Housing			\$1,000.00	12	\$12,000.0
Utilities - Power, Phone,etc		\$300.00	12	\$3,600.0	
Meal Allo	wance, Groce	ries	270 days @ \$6.0	10/day	\$1,620.0
Beef, Farm Produce		1/2 beef - 350# @\$1.40/lb		\$490.0	
Other-			\$0.00	12	\$0.0
Medical In	surance		\$450.00	12	\$5,400.0
Uncovere	ed Medical Re	imbursement			\$4,000.0
Other-					
Commuting Pickup				\$3,000.0	
Other- Au	to Insurance,	gas, maint Sp	ouse & children		\$4,000.0
Other-					
Total	Wage and Be	nefits Value (It	ems 1-7)		\$55,946.0
Bonus-B	ased on Year	end Results			\$2,500.0
Retirement Contribution @		7%		\$1,680.0	
Total Compensation:		n:			\$60,126.0















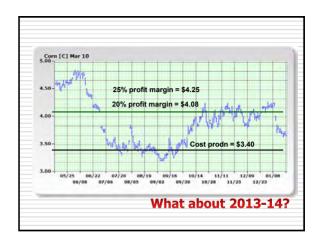


















Conclusion #9 — Developing Adequate
Computer Software Is Critical Component

Software vendors actively engaged in
MA debate...some more than others
Red Wing, FBS, AgManager, Quickbooks

Producers will find most current
software inadequate to do MA properly
& efficiently

???? What are farmers using....





# Major Differences — Enterprising vs. MA Enterprising built foundation for MA OK for investors, bankers & 1-horse management team...not Responsibility Center Managers Investors & bankers concerned about "bottom line" Managers concerned about responsibility areas Goals, decision-roles, strategies, resources Performance results, cost management



