Understanding Cooperative Financials and Impacts to Your Farm

Production & Marketing Risk Seminar

Iowa State Bank and Sac Realty & Insurance Sac City, Iowa January 23, 2018

Keri L. Jacobs, Asst. Professor and Extension Economist Iowa Institute for Cooperatives Endowed Economics Professor



Why (Co-op) Financials Matter to Producers

- Co-op members are impacted by co-op financial performance via equity and patronage
- Cash patronage changes per bushel net marketing
- Producers who sell grain on credit sale contracts are unsecured creditors—this holds for sales to co-ops and independents

Four Basic Conditions to Know About Your Co-op

- Is my co-op profitable?
- Does it have sufficient working capital to meet its obligations, including CSCs?
- How are we capitalized / leveraged?
- What is the company's allocation strategy?

Evaluating A Company's Financial Position before Selling Grain on Deferred Price Contracts: A Simple Calculator

The following template will calculate the key financial indicators used to assess the financial position of a company for purposes of establishing a short-term credit relationship.

Users can enter the values from a firm's recent audited financial statements in the yellow highlighted cells. Financial measures in table 1 of FMR 1893 are calculated automatically and displayed in the 'Output Values' table (below right). Please refer to that publication for an explanation of these values.

START HERE: Is the firm you wish to evaluate a cooperative?		Calculated value are formatted recommendation; red = below to		above recommendation;	yellow = at or near
			Output Va	alues	
From the Balance Sheet		Measures	Calculated Value	Guideline	Qualifier
Assets		Working Capital	\$0	\$0	approx. minimum
Current Assets		Current Ratio	#DIV/0!	≥ 1.0	varies
Net Fixed Assets (NFA)		Working Capital to Sales	#DIV/0!	#DIV/0!	approx. minimum
intentionally blank		Leverage	#DIV/0!	≤ 50%	varies
Liabilities and Equities		Term Debt to NFA	#DIV/0!	≤ 50%	varies
Current Liabilities		Income to Sales	#DIV/0!	#DIV/0!	approx. minimum
Long-Term Debt					
Total Equity		This file accompanies the publica Price Contracts" (FMR 1893)	ation, "Evaluating a Company's	Financial Position before Se	elling Grain on Deferred
From the Operating (Income) Statement					
Grain Sales	\$ -	Author: Keri L. Jacobs, Assistar	nt Professor and Extension Eco	nomist	
Total Sales	\$-	Department of Economics			
intentionally left blank	\$-	Iowa State University			
Net Income (Pre-tax)	\$ -	Last modified October 9, 2017			
Iowa State University Extension and Outreach does not discriminate on the basis of age, disabil	ty, ethnicity, gender identify, genetic information,	marital status, national origin, pregnancy, race, religion, se	x, sexual orientation, socioeconomic status, or statu	us as a U.S. veteran. Direct inquiries to Ross	Wilburn, 515-294-1482, wilburn@iastate.ed

Evaluating a Company's Financial Position before

Selling Grain on Deferred Price Contracts



Terminology - Profits

Profits / profitability – aka "savings"

Local savings = gross margins + other operating income – operating expenses

✓ Some of this is from member business, some from non-member business

Net Savings (before taxes) = local savings + other income

✓ Income from regional cooperatives, joint ventures, etc.



Terminology – Uses of Profits

Patronage – a return of profits based on use

 Allocation of the net savings before taxes from member business to members in proportion to each member's use in that year.

Retained Savings (Earnings) – retaining nonmember profits and designated portion of member profits; co-op pays the tax

Dividends – a return to equity

 Very few co-ops do this; dividends are to be subordinate to patronage



Terminology – Designation of Patronage

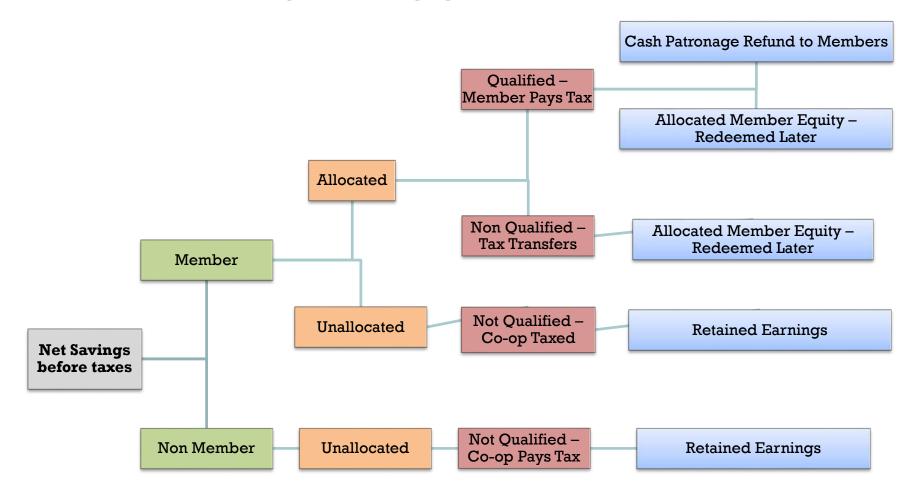
Qualified Patronage Allocation

 Min 20% must be paid in cash, the remainder is retained as allocated member equity, member pays the tax when the allocation is made (no tax liability at redemption)

Non-Qualified Patronage

 No cash, all is retained as allocated member equity, co-op pays the tax when the allocation is made, member pays the tax when redeemed (and co-op receives tax deduction)

David Barton's Savings Distribution Tree





Enterprise Mix - proportion of grain and non-grain sales matters to working capital and profitability

Gross Margins – what was made on marketing grain and resale of inputs

Local Savings – profits generated from the co-op's own operations.

Patronage Received – income from regional co-ops (CIPCO, CHS, LOL, AGP, CoBank), combination of equity and cash.

	2015	2016	
Sales			
Grain	\$110,898,520	\$72,721,940	
Farm Supplies	\$36,995,170	\$40,077,100	
Total Sales	\$147,893,690	\$112,799,040	
Cost of Goods Sold	\$140,314,000	\$105,545,570	
Gross Margins	\$7,579,690	\$7,253,470	
Other Income			
Service Income	\$5,527,810	\$5,142,900	
Finance Charges	\$702,040	\$566,220	
Total Other Income	\$6,229,850	\$5,709,120	
Gross Income	\$13,809,540	\$12,962,590	
Expenses			
Personnel Expense	\$4,497,100	\$4,589,870	
Fixed Expenses			
Interest	\$1,628,210	\$1,758,740	
Depreciation	\$1,813,240	\$1,740,870	
Insurance	\$261,130	\$251,400	
Property Taxes	\$504,100	\$565,500	
Variable Expenses	\$2,066,520	\$3,338,980	
Total Expenses	\$10,770,300	\$12,245,360	
Local Savings (Loss)	\$3,039,240	\$717,230	
Patronage Refunds Received	\$239,900	\$477,700	\supset
Net Savings (Loss)	\$3,279,140	\$1,194,930	



	2015	2016
ASSETS		
Current Assets		
Cash on hand	\$1,542,630	\$4,971,560
Accts Receivable	\$5,792,150	\$4,178,530
Inventories	\$6,090,410	\$4,697,820
Others	\$2,362,500	\$777,560
Total Current Assets	\$15,787,690	\$14,625,470
Fixed (Long Term) Assets		
Land	\$1,751,110	\$1,751,110
Building & Equipment	\$35,245,720	\$35,608,220
Less: Accum Depreciation	\$13,930,270	\$15,605,890
Total Fixed Assets	\$23,066,560	\$21,753,440
Other Assets		
Investments in Co-ops	\$8,774,160	\$9,078,390
Total Assets	\$47,628,410	\$45,457,300

Assets: Investments in Regional Co-ops

This is the paper value of your coop's equity in the regional (e.g., CHS, AGP, LOL, CoBank, CIPCO, etc.)

No control over when it is redeemed

Lenders discount this when calculating borrowing ability

This is net of newly allocated equity and the annual redemption (if any).



Payables

- Customer prepays and grain payables
- These are the unsecured obligations of the co-op to producers
- CSCs not covered by the IA grain indemnity fund

	2015	2016
LIABILITIES		
Current Liabilities		
Accts Payable	\$1,887,010	\$82,530
Operating Line	\$0	\$0
Current portion of long-term note	\$1,420,000	\$1,420,000
Accrued Expenses	\$2,118,930	\$2,945,680
Total Current Liabilities	\$5,425,940	\$4,448,210
Term (Long Term) Liabilities		
Mortgages / Term Notes	\$9,219,800	\$7,799,800
Member Notes	\$0	\$0
Total Long Term Liabilities	\$9,219,800	\$7,799,800
EQUITY		
Common Stock	\$156,500	\$156,500
Deferred Patronage Refunds	\$24,046,010	\$23,980,270
Retained Earnings	\$8,780,160	\$9,072,520
Total Equity	\$32,982,670	\$33,209,290
Total Liabilities and Equity	\$47,628,410	\$45,457,300



Equity

- Member-provided
- Member equity capital in an individual's name, will eventually be paid back (redeemed)
 - Revolving equity (aka "Age of Equity")
 - Age of Patron
- Retained savings not allocated; permanent equity

	2015	2016
LIABILITIES	_	
Current Liabilities		
Accts Payable	\$1,887,010	\$82,530
Operating Line	\$0	\$0
Current portion of long-term note	\$1,420,000	\$1,420,000
Accrued Expenses	\$2,118,930	\$2,945,680
Total Current Liabilities	\$5,425,940	\$4,448,210
Term (Long Term) Liabilities Mortgages / Term Notes	\$9,219,800	\$7,799,800
Member Notes	\$0	\$0
Total Long Term Liabilities	\$9,219,800	\$7,799,800
EQUITY		
Common Stock	\$156,500	\$156,500
Deferred Patronage Refunds	\$24,046,010	\$23,980,270
Retained Earnings	\$8,780,160	\$9,072,520
Total Equity	\$32,982,670	\$33,209,290
		_
Total Liabilities and Equity	\$47,628,410	\$45,457,300



Local Equity

- The amount of equity that the co-op controls
- Calc: Local Equity = Total Equity Investments in Other Co-ops

Potential issues of allocating more equity than is controlled

Fixed (Long Term) Assets			Term (Long Term) Liabilities		
Land	\$1,751,110	\$1,751,110	Mortgages / Term Notes	\$9,219,800	\$7,799,800
Building & Equipment	\$35,245,720	\$35,608,220	Member Notes	\$0	\$0
Less: Accum Depreciation	\$13,930,270	\$15,605,890	Total Long Term Liabilities	\$9,219,800	\$7,799,800
Total Fixed Assets	\$23,066,560	\$21,753,440			
			EQUITY		
Other Assets			Common Stock	\$156,500	\$156,500
Investments in Co-ops	\$8,774,160	\$9,078,390	Deferred Patronage Refunds	\$24,046,010	\$23,980,270
			Retained Earnings	\$8,780,160	\$9,072,520
			Total Equity	\$32,982,670	\$33,209,290
Total Assets	\$47,628,410	\$45,457,300	Total Liabilities and Equity	\$47,628,410	\$45,457,300



IS MY CO-OP PROFITABLE?



Local Return on Sales

✓ Indicates degree to which coop is generating profits at the local level from its sales

Calc: = Local savings ÷ Total sales

- =\$.7 ÷ \$112.8 = 0.6%
- Guideline: 1% of grain sales
 + 2.5% of non-grain sales

	2015	2016
Sales		
Grain	\$110,898,520	\$72,721,940
Farm Supplies	\$36,995,170	\$ 40,077,1 00
Total Sales	\$147,893,690	(\$112,799,040)
Cost of Goods Sold	\$140,314,000	\$105,545,570
Gross Margins	\$7,579,690	\$7,253,470
Other Income		
Service Income	\$5,527,810	\$5,142,900
Finance Charges	\$702,040	\$566,220
Total Other Income	\$6,229,850	\$5,709,120
Gross Income	\$13,809,540	\$12,962,590
Expenses		
Personnel Expense	\$4,497,100	\$4,589,870
Fixed Expenses		
Interest	\$1,628,210	\$1,758,740
Depreciation	\$1,813,240	\$1,740,870
Insurance	\$261,130	\$251,400
Property Taxes	\$504,100	\$565,500
Variable Expenses	\$2,066,520	\$3,338,980
Total Expenses	\$10,770,300	\$12,245,360
Local Savings (Loss)	\$3,039,240	\$717,230
Patronage Refunds Received	\$239,900	\$477,700
Net Savings (Loss)	\$3,279,140	\$1,194,930

DOES IT HAVE SUFFICIENT WORKING CAPITAL?



Workin	or Ca	mital			
****	9 00	pital	What happens		
	2015	2016	to WC if this)15	2016
ASSETS			goes bad?		
Current Assets			Fin 1		
Cash on hand	\$1,542,630	\$4,971,560	Accts Payable	\$1,887,010	\$82,530
Accts Receivable	\$5,792,150	\$4,178,530	Operating Line	\$0	\$0
Inventories	\$6,090,410	\$4,697,820	Current portion of long-term note	\$1,420,000	\$1,420,000
Others	\$2,362,500	\$777,560	Accrued Expenses	\$2,118,930	\$2,945,680
Total Current Assets	\$15,787,690	\$14,625,470	Total Current Liabilities	\$5,425,940	\$4,448,210

 Indicates availability of funds to meet current obligations in a timely manner

Calculation: Current Assets – Current Liabilities

- ✓ Grain guideline: seasonal operating line 5 7 times WC
- ✓ FS guideline: seasonal operating line 3 5 times WC

Alternative (adjusted) Calculation: WC \div Sales = \$10.2 / \$112.8 = 9%

✓ Guideline: 7% of non-grain sales + 1.5% of grain sales



HOW ARE WE CAPITALIZED / LEVERAGED?



Local Leverage

✓ Indicates ability to meet long-term financial obligations

Calculation: Long Term Debt \div Local Equity = \$7.8 \div (\$33.2 - \$9) = 32%

• Guideline: < 50% (<0.50), but depends on revenues generated

Fixed (Long Term) Assets			Term (Long Term) Liabilities		
Land	\$1,751,110	\$1,751,110	Mortgages / Term Notes	\$9,219,800	\$7,799,800
Building & Equipment	\$35,245,720	\$35,608,220	Member Notes	\$0	\$0
Less: Accum Depreciation	\$13,930,270	\$15,605,890	Total Long Term Liabilities	\$9,219,800	(\$7,799,800)
Total Fixed Assets	\$23,066,560	\$21,753,440			
			EQUITY		
Other Assets			Common Stock	\$156,500	\$156,500
Investments in Co-ops	\$8,774,160	\$9,078,390	Deferred Patronage Refunds	\$24,046,010	\$23,980,270
			Retained Earnings	\$8,780,160	\$9,072,520
			Total Equity	\$32,982,670	\$33,209,290
Total Assets	\$47,628,410	\$45,457,300	Total Liabilities and Equity	\$47,628,410	\$45,457,300



Term Debt to Net Fixed Assets

✓ Indicates degree to which term debt is financing NFA and whether it matches life expectancy of assets – collateralization factor

Calculation: Long Term Debt \div Net Fixed Assets = \$7.8 \div \$21.7 = 36%

 Guideline: < 50% (<0.50), but depends on revenues generates from assets

Land	\$1,751,110	\$1,751,110	Mortgages / Term Notes	\$9,219,800	\$7,799,800
Building & Equipment	\$35,245,720	\$35,608,220	Member Notes	\$0	\$0
Less: Accum Depreciation	\$13,930,270	\$15,605,890	Total Long Term Liabilities	\$9,219,800	\$7,799,800
Total Fixed Assets	\$23,066,560	\$21,753,440			
			EQUITY		
Other Assets			Common Stock	\$156,500	\$156,500
Investments in Co-ops	\$8,774,160	\$9,078,390	Deferred Patronage Refunds	\$24,046,010	\$23,980,270
			Retained Earnings	\$8,780,160	\$9,072,520
			Total Equity	\$32,982,670	\$33,209,290
Total Assets	\$47,628,410	\$45,457,300	Total Liabilities and Equity	\$47,628,410	\$45,457,300
Total Fixed Assets Other Assets Investments in Co-ops	\$23,066,560 \$8,774,160	\$9,078,390	EQUITY Common Stock Deferred Patronage Refunds Retained Earnings Total Equity	\$156,500 \$24,046,010 \$8,780,160 \$32,982,670	\$156,5 \$23,980,2 \$9,072,5 \$33,209,2



WHAT IS THE ALLOCATION STRATEGY?





Equity

How much equity is allocated to members?

$$=$24.1 \div $33.2 = 73\%$$

Have they allocated "too much"—was regional equity allocated (member equity divided by local equity)?

$$= $24.1 \div ($33.2 - $9.0) = 99.5\%$$

Other Assets

Investments in Co-ops

\$8,774,160

\$9,078,390

_	2015
LIABILITIES	
Current Liabilities	
Accts Payable	\$1,887,010
Operating Line	\$0
Current portion of long-term note	\$1,420,000
Accrued Expenses	\$2,118,930
Total Current Liabilities	\$5,425,940

Term (Long Term) Liabilities

Mortgages / Term Notes Member Notes

Total Long Term Liabilities

\$9,219,800 \$7,799,800

EQUITY

Common Stock Deferred Patronage Refunds

Retained Earnings

Total Equity

\$24,046,010

\$9,219,800

\$0

\$8,780,160 \$32,982,670

\$156,500

\$9,072,520

\$33,209,290

\$23,980,270

\$156,500

2016

\$82,530

\$1,420,000

\$2,945,680

\$4,448,210

\$7,799,800

\$0

\$0

Total Assets

\$47,628,410

\$45,457,300

Total Liabilities and Equity

\$47,628,410 \$45,457,300



Parting Thoughts

- Financials best viewed as trends over time
- Makes sense to know who you are doing business with (co-op or not)
- Overall, co-op financials still suggest strong balance sheets and available WC for shortterm deficits.



Keri L. Jacobs e: kljacobs@iastate.edu www.econ.iastate.edu/people/keri-jacobs

