

TEPAP Financial Mgmt I– Pre-Class Concepts Review

Sunday 10:00 – 12:00

Location: Forum

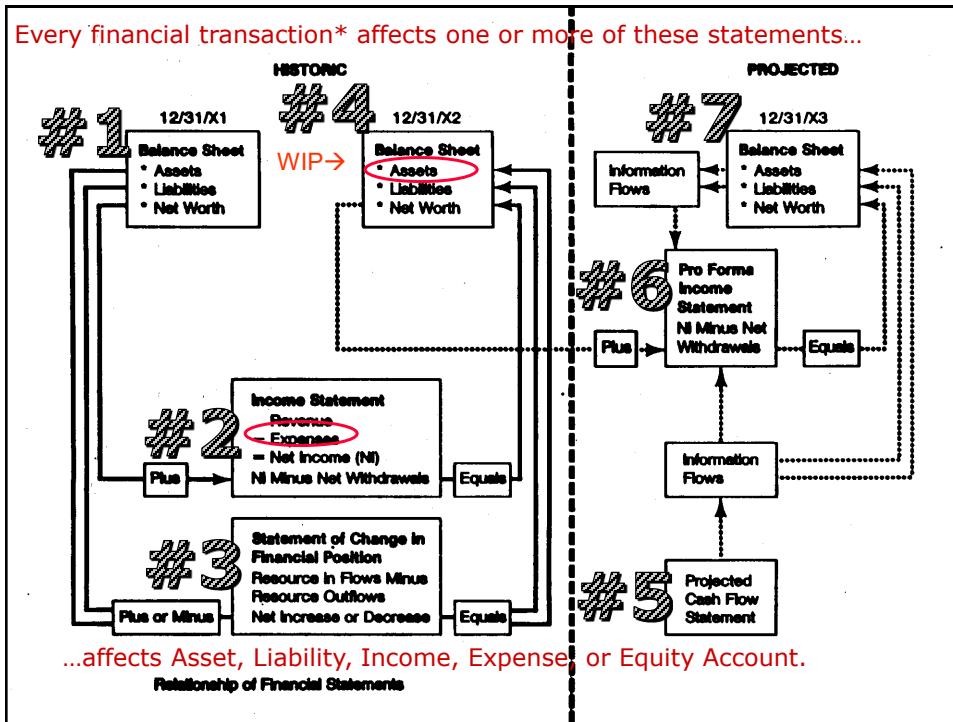
Both Year I and Year II Students Welcome!

1

Special Topics – Financial Analysis

- How transactions flow to build Financial Statements
- Cash, Accrual Adjusted, vs. True Accrual
- Cost vs. Market Value Balance Sheet
- Cashflow Budgeting & Pro Forma Income Projections
- Trend analysis – Key Ratios, Dupont Model
- Analyzing multiple entities
- Sustainable Growth Rate
- Deferred taxes
- Tax vs. economic depreciation
- Net Present Value (NPV)–Time Value Money
- ABC – *Activity Based Costing*

4



6

QUIZ—Calculate Cash (Taxable) & Accrual Net Income

- Cash income (corn sales) \$1,250,000
- Cash expenses \$1,000,000
- Tax depreciation \$ 225,000
- Inventory-Corn
 - End Yr = \$650,000; Beg Yr = \$450,000
- Accounts Payable
 - End Yr = \$300,000; Beg Yr = \$150,000
- Cash Investment in Growing Crop
 - End Yr = \$275,000; Beg Yr = \$200,000
- Book (Economic) depreciation \$ 75,000

8

What's the goal of accrual accounting?

Match value of income created in a fiscal year with cost to produce that **income...regardless of when it is sold**, or when expenses are actually paid.

9

INCOME STATEMENT

Actual
 Projected

For 12 Month Period
Ending _____, 19____

Name _____
Address _____

REVENUE	
Crops and feed:	
cash sales.....	\$ _____ (1a)
-inventory change (Sch. 1).....	(±) _____ (1b) \$ _____ (1)
Livestock & poultry sold:	
cash sales.....	\$ _____ (2a)
inventory change (Sch. 1).....	(±) _____ (2b) _____ (2)
Breeding stock:	
cash sales.....	\$ _____ (3a)
inventory change (Sch. 1).....	(±) _____ (3b) _____ (3)
Products: livestock and poultry — cash sales.....	_____ (4)
Custom work: cash.....	_____ (5)
Government payments and patronage dividends.....	_____ (6)
Income from hedging transactions (Sch. 2).....	(±) _____ (7)
Other.....	_____ (8)
Adjustment in notes and accounts receivable (Sch. 1).....	(±) _____ (9)
Gross revenue (Add lines 1 thru 9).....	\$ _____ (10)
Less livestock & poultry purchases (feeder & breeding).....	(-) _____ (11)
Less feed purchased.....	(-) _____ (12)
VALUE OF FARM PRODUCTION.....	\$ _____ (a)

10

Mini-Case: Cash to Accrual

Simple farm with one commodity:

□ Cash Income	\$1,250,000
□ Cash Exp (excl deprec.)	\$1,000,000
□ Tax Deprec. Expense	<u>\$ 225,000</u>
□ Tot Exp–Cash Basis	\$1,225,000
□ Cash Basis (Tax) Net Inc	\$25,000

→ Is this indication of profitability?

13

Cash to Accrual Net Income

□ Cash Sales corn	\$1,250,000
■ End Inventory	=\$650,000
■ Begin Inventory	= <u>\$450,000</u>
□ What is:	
■ Accrual Adjustment Value	
■ Sales on Accrual Basis*	
→ Accrual Adjustment =	<u>+\$200,000</u>
→ Sales-Accrual Basis =	\$1,450,000
□ Accts Receiv. changes–same concept	

*Aka *Gross Farm Revenue* or *Value of Farm Production*

14

Cash to Accrual Expenses

Cash Basis Expenses \$1,225,000

■ Begin A/C Payable* = \$150,000

■ Ending A/C Payable = \$300,000

* Fertilizer, seed, feed bills, labor, etc.

Calculate Accrual Basis Expenses?

→ Accrual Adjustment +\$150,000

→ Accrual Basis Expenses \$1,375,000

■ **"Revised Thinking" re: YTD Profit?**

■ Inc \$1,450,000 - Exp \$1,375,000 = \$75,000

15

More Curves...

□ Cash Investment in Growing Crop

■ End of Year (Ent Yr X2) = \$275,000

■ Begin of Year (Ent Yr X1) = \$200,000

Is this expense or income adjmt?

→ Expense adjustment

→ Current Yr Accrual Adjmt = -\$75,000

→ Accr Expenses = \$1,375,000 - \$75,000

■ **"Revised YTD Profit?"**

■ Inc \$1,450,000 - Exp 1,300,000 = \$150,000

16

More Curves...FINAL ANSWER

Depreciation Expense

- Tax Depreciation \$225,000
- Book (Economic) Deprec \$ 75,000

Expense or income adjmt? → Expense

- Curr Yr Accrual Adjustment -\$150,000
- Accr. Expense = \$1,300,000 - \$150,000

■ "Revised YTD Profit?"

- Inc \$1,450,000 - Exp \$1,150,000 = \$300,000

FINAL: Cash NI = \$25,000; Accrual = \$300,000 → 8.3%

17

Tax vs. Economic Depreciation

□ FFSC Prior Position:

Tax depreciation for most operations does not present a material distortion of depreciation cost and can be used as proxy for cost based income analysis

□ Current Problem: Accelerated write-offs can distort real depreciation expense

- Section 179 – added write off \$25,000
- Special Depreciation Allowance – new equipment

□ Proposal:

If tax depreciation differs significantly, cost based analysis should use "book" instead of "tax" depreciation

18

Impact on Accrual Net Income – Using Tax vs Book (Economic) Depreciation

- Survey of annual TEPAP participants
 - Approximately 5% of class is doing both tax and book
 - Few thought about impact on accrual net income – most who completed trend sheet used tax depreciation
- % Error in Accrual Net Income

Year	20X1	20X2	20X3	20X4	20X5
Operating Expenses (000's)	\$1,988	\$2,098	\$2,292	\$2,657	\$3,069
Tax less Book Depr adjmt	\$244	\$148	(\$9)	\$62	\$339
Depr Adjmt as % Oper Exp	12.2%	7.1%	(0.4%)	2.3%	11.0%
Depr Adjmt as % Net Inc	32.7%	17.6%	(0.7%)	7.3%	85.6%

19

19

Calculating Net Farm Income on an Accrual Basis			
	Cash (Tax) Basis	Book (Accrual)	Net Accrual Adjmt
Income (Sales)			
Cash Sales - Corn (X1 Yr)	\$ 1,250,000	\$ 1,250,000	
+ Ending Inventory (X1)		\$ 650,000	\$ 200,000
- Beginning Inventory (X0)		\$ (450,000)	
Accounts Receivable			
+ Ending		\$ -	\$ -
- Beginning	\$ -	\$ -	\$ -
Gross Inc-Accrual Adjusted	\$ 1,250,000	\$ 1,450,000	\$ 200,000
Expenses			
Cash Expenses	\$ 1,000,000	\$ 1,000,000	
Accounts Payable			
+ Ending (X1)		\$ 300,000	\$ 150,000
- Beginning (X0)		\$ (150,000)	
Cash Investmt Growing Crop			
+ Beginning (X1)		\$ 200,000	\$ (75,000)
- Ending (X2)		\$ (275,000)	
Depreciation Expense			
+ Tax Basis (accelerated)	\$ 225,000	\$ -	
- Book (Economic) Basis	\$ -	\$ 75,000	\$ (150,000)
Total Expenses	\$ 1,225,000	\$ 1,150,000	\$ (75,000)
Net Income	\$ 25,000	\$ 300,000	\$ 275,000

See www.wittmanconsulting.com for Accrual Worksheet

See www.ffsc.org for Accrual Net Farm Income Worksheet

20

Curr & Fixed ... Deferred Tax

TOTAL CURRENT ASSETS		\$	\$	TOTAL CURRENT LIABILITIES		\$	\$
Intermediate Assets				Intermediate Liabilities (Sch. 8)			
Notes & accounts receivable (good)	\$	\$		(Principal due beyond 12 months)	\$	\$	
Machinery, equipment, trucks (Sch. 9)	\$	\$		Notes payable	\$	\$	
Cost or Basis	\$	\$		Sales contracts	\$	\$	
Less accumulated dep	\$	\$		Life insurance policy loans	\$	\$	
Breeding stock (Sch. 4)	\$	\$		Other	\$	\$	
Retirement accounts (IRA, HR-10)	\$	\$		Contingent income tax liability:	\$	\$	
Cash value of life insurance (Sch. 7)	\$	\$		Machinery	\$	\$	
Securities not readily mktable (Sch. 1)	\$	\$		Breeding stock	\$	\$	
Personal & recreational vehicles (Sch. 3)	\$	\$		Securities not readily mktable	\$	\$	
Household goods & personal effects	\$	\$		Contingent income tax liability & interest penalty on retirement accts.	\$	\$	
Other	\$	\$			\$	\$	
TOTAL INTERMEDIATE ASSETS	\$	\$		TOTAL INTERMEDIATE LIABILITIES	\$	\$	
Fixed Assets				Long Term Liabilities (Sch. 8)			
Contracts & notes receivable	\$	\$		(Principal due beyond 12 months)	\$	\$	
Farm real estate (Sch. 5):	\$	\$		Mortgage on farm real estate	\$	\$	
Cost or Basis	\$	\$		Land contracts	\$	\$	
Less accumulated dep	\$	\$		Mortgage on non-farm real estate	\$	\$	
Non-farm real estate (Sch. 6)	\$	\$		Other	\$	\$	
Other	\$	\$		Contingent capital gains tax liability:	\$	\$	
	\$	\$		Real estate	\$	\$	
TOTAL FIXED ASSETS	\$	\$		TOTAL LONG TERM LIABILITIES	\$	\$	
				TOTAL LIABILITIES	\$	\$	
				NET WORTH	\$	\$	
TOTAL ASSETS	\$	\$		TOTAL LIABILITIES AND NET WORTH	\$	\$	

Interm. Assets/ Liab

←Deferred Tax

23

Deferred Tax Liability - *MiniCase*

Assumptions: Family Farm Corporation – 900 shares of stock. Considerable ownership held by off-farm relatives.

	<u>Market Value</u>	<u>(\$/sh)</u>	<u>Cost (Tax Basis)</u>	<u>(\$/sh)</u>
Net Worth	= \$1,540,000	(\$1711)	\$175,000	(\$194)

Deferred Gain= \$1,365,000 @ 42% Tax Rate = \$573,300 Defrd Tx => \$637/share

NW Adj for Def Tax = (1,540,000-573,300) = \$966,700
/900 shares = \$1,074/share

What price would you want if you were:

- Farm operator wanting to buy off-farm stock
- Off-farm cousin (with new boat & house payments)
- IRS appraiser in an estate appraisal

...How do earnings vs market appreciation influence what you are willing to pay?

25

Deferred Tax Mini Case (cont'd)

Assumptions:

Net Earnings (Cost Basis)

= \$5.36/sh (ROE= 2.8%)

Market Value Net Worth increase

= \$43.23/sh

or...\$41.07/sh adj for Def Tax (ROE = 3.0%)

What price would you pay with 7% ROE Goal?

Earnings @ Cost: $\$5.36 \div .07 = \77

Using earnings + mkt gains: $\$41.07 \div .07 = \587

26

Deferred Tax Elements

- Current Assets that are taxable if sold (Commodities, Accts Receivable, Prepaid expenses) **LESS...**
- Current Liabilities that are deductible if paid (accts payable, accrued interest, property taxes, etc.)
- Unearned government payments
- Unrealized gain-long term assets: R.E., equipment, securities/investments, CVLI

..\..\Sheet\DATA\END INV & footnotes Inc & Ltd.xlw

27

Where is Deferred Tax Recorded?

Options:

1. Record on the balance sheet as Deferred Liability

Pros – more realistic presentation of net worth

Cons – bankers don't like this...distorts serviceable debt and financial ratios (*WF case in point!*)

2. Record as footnote to financial statements

Pros – recognizes the liability exists; acknowledges that \$ amount is not an exact science (tax laws subject to change)

Cons – tends to overstatement recognizable equity

28

Year End Financial Summary – With Book Capital & Unreal. Gain

	Year End Book Capital with Cur Yr P/L added	_(from MV Bal Sheet) Unreal. Income	Personal B/S Amt MV Net Worth
Partner A	\$ 711,751	\$722,120	\$ 1,433,872
Partner B	\$ 355,252	\$361,060	716,312
Partner C	\$ 411,141	\$601,766	1,012,908
Partner D	\$ 480,625	\$722,120	1,202,745
Total	\$ 1,958,771	\$2,407,067	\$ 4,365,839

29

Trend Sheets – Key Ratios

- What records are you using?
 - Cash basis
 - Accrual Adjusted information
- How does computation vary if use:
 - Cost
 - Market Value

30

Joe P. Sample Cash Example									
Income Statement									
Description	Projected Cash	FYE 2008	FYE 2007	FYE 2006	FYE 2005	FYE 2004			
Statement Date	* 5 Yr.	01/01/2009 -	01/01/2008 -	01/01/2007 -	01/01/2006 -	01/01/2005 -	01/01/2004 -		
VFP, Ag - Fees	Average	12/31/2009 *	12/31/2008 *	12/31/2007 *	12/31/2006 *	12/31/2005 *	12/31/2004 *	No Adj.	Adjusted
Crop Cash Sales	208,302	193,392	237,154	212,310	210,230	190,835	191,896		
-or- Change in Inventories	12,531	10,648	41,635	14,919	4,001		2,000		
Gross Revenues from Crops	220,913	204,039	278,789	226,929	214,231	190,835	193,896		
Market Livestock/Poultry Cash Sales	186,489	192,548	207,490	174,520	177,540	183,500	189,290		
-or- Change in Inventories	875	38,190	19,900	-17,051	-6,174		12,700		
Gross Revenues from Livestock	187,163	230,648	220,390	157,769	172,366	183,500	201,990		
Livestock Prod. Sales	87,661	90,750	101,250	95,230	82,400	80,300	79,125		
-or- Change in Inventories									
Gross Revenues from Livestock Prod	87,661	90,750	101,250	95,230	82,400	80,300	79,125		
Government Program Payments	11,066	12,500	9,400	10,600	12,500	11,870	10,960		
Raised Breeding Stk Value Change	150		-6,000	-2,350	4,600		3,500		
Gain/Loss from Breeding Stock	950	-3,500	1,000	-500	1,500		500		
Change in Acct. Rec. (-12 mo.)									
Other Farm Income	9,637	10,000	6,640	7,675	11,290	9,800	10,590		
-or- Accrual Adjustments									
Gross Revenues Other Farm Inc	9,637	10,000	6,640	7,675	11,290	9,800	10,590		
Gross Revenues	517,179	545,028	614,269	495,353	499,197	470,265	508,435		
Less - Purchases for Resale	35,917	44,500	38,000	34,500	36,455	35,450	34,500		
- Cost of Purch. Feeds/Grain	43,404	43,500	46,170	44,250	43,500	42,800	40,300		
Value of Farm Production	437,858	457,028	530,159	416,503	419,292	398,025	425,735		
Cash Farm Oper. Expenses	252,230	258,097	297,792	241,833	245,428	252,928	233,169		
-or- Accrual Adjustments									
Growing Crops, Prepaids, Supplies,	-1,290	11,400	-7,000	-1,400	1,800		150		
Other Assets	200		600	900	200		-300		
Accts Pay, RE Tax, Oth. Cur. Liab.	31,948	30,700	26,450	31,600	32,600	35,640	31,450		
Depreciation Expense	293,088	300,197	309,842	272,533	280,028	288,568	264,469		
Total Operating Expenses	53,034	47,541	47,335	50,100	52,360	55,580	59,795		
Cash Interest Paid	4,841	-6,693	-1,854	26,057					
-or- Change in Accrued Interest									
Total Interest Expense	57,875	40,348	45,481	76,157	52,360	55,580	59,795		
Total Expenses	348,963	340,835	355,323	348,696	332,388	344,148	324,264		
Net Farm Income From Oper.	36,396	116,493	174,876	67,813	86,894	53,877	101,471		
Gain/Loss on Farm Assets									
Net Farm Income	36,396	116,493	174,876	67,813	86,894	53,877	101,471		
Wages & Other Non-Farm Income	19,846	25,000	25,400	19,500	18,230	17,602	18,500		
-or- Accrual Adjustments									
Wages & Other Non-Farm Inc.	19,846	25,000	25,400	19,500	18,230	17,602	18,500		
Cash Income Tax Expense	6,400	8,500	8,500	6,000	5,500	7,500	4,500		
-or- Change in Tax Accruals	1,000	-7,500	2,500	-1,000	500		3,000		
Total Tax Expense	7,400	1,000	11,000	5,000	6,000	7,500	7,500		
Net Income	199,433	146,493	189,276	82,313	89,124	63,979	112,471		
Less - Owner Withdrawals	34,028	40,000	41,250	34,600	31,900	29,640	32,750		
-or- Accrual Adjustments									
Total Owner Withdrawals	34,028	40,000	41,250	34,600	31,900	29,640	32,750		
Net Inc. After Owner Withdrawals	75,405	106,493	148,026	47,713	67,224	34,339	79,721		
Plus - Depreciation and Term Int.	83,742	71,581	72,845	79,175	84,700	90,940	91,050		
Cap Rpts & Term Debt Repay Cap	159,147	171,074	220,871	126,868	151,804	125,279	178,771		
Less - Term Debt Payments	96,758	81,138	85,320	89,835	97,354	102,850	109,400		
Margin After Debt Servicing	62,369	95,436	135,551	36,053	54,570	22,399	61,371		
CDRC%	164%	211%	259%	143%	156%	122%	156%		

31



Repayment Capacity

Measures ability to service debt and lease obligations and replace capital

Multiple measures – Two important ones... '17 = 1.6:1; '18 = 1.5:1
'19 = 2.25; '20 = 1.74

1) Debt Coverage Ratio –
Repayment and Replacement Capacity*/Scheduled Principal and Interest

2) Replacement Margin & Ratio -

Margin = Capacity* – Commitments**

Ratio = Capacity/Commitments

*Capacity = Inc from Oprns + Non-Farm/Misc Inc + Depr – Inc Tax– Owner WD

**Commitments = Total Debt Repayment + Unfunded Capital Replacement

32

Leases – Operating vs. Financial

- Operating vs. Financial Lease?
- How put transaction on Balance Sheet?
→ check out www.ffsc.org for guidelines
- Beware of tax dodges

Example: specialty structure or mach purch

- build structure; depreciate over 20 yrs
- lease structure – 7 yrs w/ residual buyout
 - if total pmts = purch price + int; IRS interprets as sales contract

33

Wittman Marketing Lesson

Don't be afraid to pay taxes!

"Opportunity costs" of deferring tax

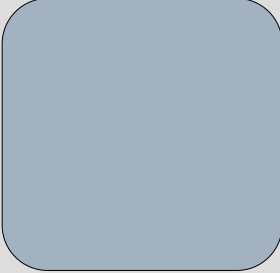
- ❑ Lost marketing opportunities
- ❑ Storage risk and interest costs
- ❑ Potential for increased tax rates
- ❑ "Frozen capital" – paralyzed for pursuing opportunities
- ❑ Building "bigger & bigger" deferred tax

35

Sell high vs. sell low?

What do you have to spend?

Case Farm: 3,000 ac wheat @80 bu.
240,000 bus to market; \$4.20 cost prodn

Price	\$7.20	
Cost	<u>4.20</u>	
Margin	\$3.00	
Net Income	\$720,000	
Taxes @35%	<u>-252,000</u>	
After Tax Profit	\$468,000	

36

Sustainable Growth Rate (SGR)

Definition

Maximum rate of growth that sales (or gross revenue) can increase without depleting financial resources.

Robert Higgins, *Analysis for Financial Management*, 1998

$$\text{SGR} = \frac{\text{Change in Equity}^*}{\text{Beginning-of-Period Equity}}$$

*Change in Equity = Earnings + Capital Infusion – W/D
... if no added capital → = Earnings x Retention %

37

SGR Mini Case – *HiTech Co*

History: 20-yr old whiz kid founds company...by 1993, company losing money and liquidity *FAST!* (\$20mm cash = 0.1% annual sales) ...called out the financial experts to keep from crashing

Solution:

- Changed focus to earnings & liquidity vs. sales growth
- Instituted formalized planning and budgeting

Result: \$18 Billion Sales by 1998...and still thriving!

Guess who?

38

Digging Deeper

$$\begin{aligned} \text{SGR} &= \frac{\Delta \text{Equity}}{\text{Beginning Equity}} \\ \text{SGR} &= \text{OPM} \times \text{ATR} \times \%R^* \times \text{Assets/Equity} \\ &= \text{ROA} \times \%R \times \text{Assets/Equity} \end{aligned}$$

Key Concepts:

- *Excessive growth* deteriorates debt/asset ratio, liquidity
- *Inadequate growth* results in unit cost creep, takeover threats, business stagnation
- **Factors that must be changed to allow faster growth:**
 - Profit Margin ratio, earnings retention rate, turnover ratio, assets to equity ratio (more financing)
- Growth affected by stage in business life cycle
 - Start-up → Growth → Maturity → Decline

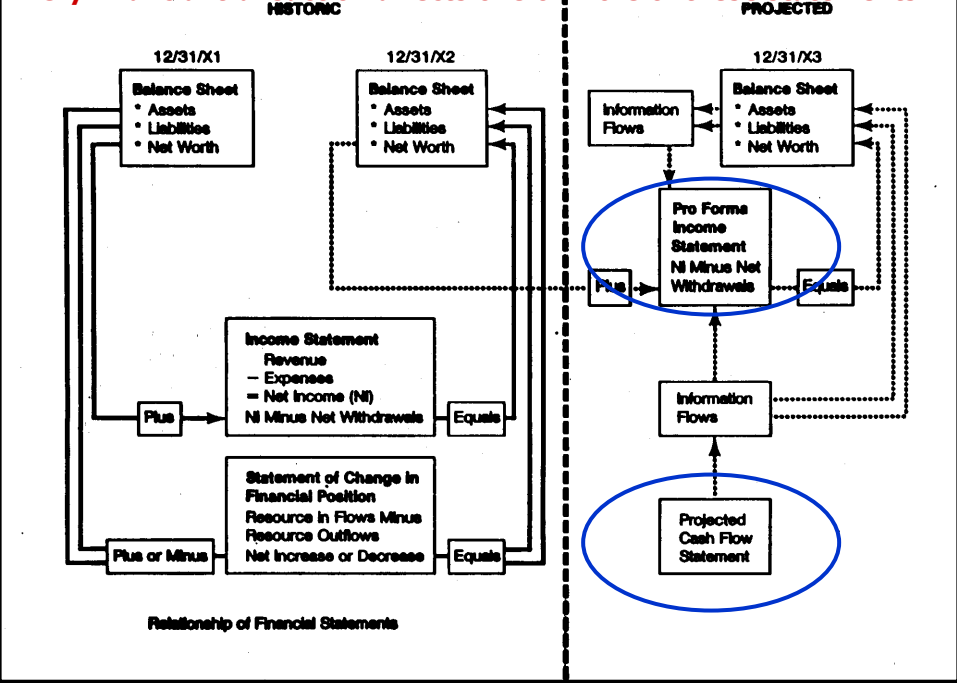
40

Uses of Cashflow Budget

- Manage liquidity
 - See where creating & consuming CASH
 - Determine borrowing requirements
 - Seasonal operating lines
 - Term debt financing needs
 - Plan marketing to maintain working capital
 - Foundation for projecting pro forma income & ending financial position
-

41

Every financial transaction affects one or more of these statements...



45

Building a Pro Forma B/S & I/S

- ❑ Start with beginning balance sheet
- ❑ Project monthly (or quarterly) cash in & out
- ❑ Project ending balance sheet items – needed for accrual adjustments
 - Inventories, receivables/payables; investment in growing crop; prepaid expenses
- ❑ End Result:
 - accrual-based pro forma income statement
 - ending balance sheet
 - key financial indicators, ratios

46

Analyze the Projection

- ❑ Is it profitable? (NI, ROA, ROE)
- ❑ Is it financially feasible? Can I fund:
 - Debt service payments
 - Net capital replacement
 - Living expense and taxes
- ❑ Operating line required & Max Outst Balance?
- ❑ Financial gauges & targets – End of Yr:
 - Working capital
 - Debt asset ratios
 - Financial Efficiency targets – turnover, operating profit margin

47

		Ratios & Indicators						
Joe P Sample Cust # Example		FYE 2008	FYE 2007	FYE 2006	FYE 2005	FYE 2004	FYE 2003	
Balance Sheet		12/31/2008	12/31/2007	12/31/2006	12/31/2005	12/31/2004	12/31/2003	
Total Current Assets		288,955	215,020	217,052	217,725	231,100	212,900	
Total Current Liabilities		144,045	97,697	118,525	128,510	125,175	107,100	
Working Capital		144,910	117,323	98,527	89,215	105,925	105,800	
Liquidity Ratio		2.01	2.20	1.83	1.69	1.85	1.99	
Total Assets		1,208,705	1,171,370	1,202,152	1,191,725	1,184,800	1,166,450	
Total Liabilities		547,127	545,807	590,050	641,080	661,475	673,650	
Total Equity		661,578	625,563	612,102	550,645	523,125	492,800	
Debt to Asset Ratio		45.27%	46.60%	49.08%	53.79%	55.84%	57.78%	
Equity to Asset Ratio		54.73%	53.40%	50.92%	46.21%	44.16%	42.22%	
Debt to Equity		0.83	0.87	0.96	1.16	1.26	1.37	
		Avg	Projected	FYE 2008	FYE 2007	FYE 2006	FYE 2005	FYE 2004
			Cash Flow	01/01/2008	01/01/2007	01/01/2006	01/01/2005	01/01/2004
		5 Yr. Avg.	12/31/2009	12/31/2008*	12/31/2007*	12/31/2006*	12/31/2005*	12/31/2004*
Income Statement (VFP)								
Gross Revenue		517,170	545,028	614,369	495,353	499,167	475,305	500,635
VFP / Gross Profit		437,949	457,028	530,199	416,503	419,262	399,025	425,735
Operating Expense		251,140	269,487	281,392	240,933	247,428	252,928	233,019
(excl. depr. & int.)								
Oper. Exp. Ratio		57.34%	58.97%	53.07%	57.85%	59.01%	63.55%	54.73%
Depreciation Expense		31,948	30,700	28,450	31,600	32,600	35,640	31,450
Depr. Exp. Ratio		7.29%	6.72%	5.37%	7.59%	7.78%	8.95%	7.39%
Interest Expense		57,875	40,348	45,481	76,157	52,360	55,580	59,795
Int. Exp. Ratio		13.21%	8.83%	8.58%	18.28%	12.49%	13.95%	14.05%
Asset Turnover Ratio		0.37	0.38	0.45	0.35	0.35	0.33	0.36
Net Income From Oper.		96,986	116,493	174,876	67,813	86,894	53,877	101,471
NIO Ratio		22.15%	25.49%	32.98%	16.28%	20.72%	13.54%	23.83%
Rate of Return on Assets		10.18%	9.67%	15.05%	9.22%	8.97%	6.72%	10.93%
Rate of Return on Equity		10.73%	11.56%	20.76%	5.37%	9.46%	4.51%	13.53%
Oper. Profit Margin Ratio		27.59%	25.57%	33.78%	26.26%	25.60%	20.05%	30.19%
Income After Owner Withdrawal		75,405	100,493	148,026	47,713	67,224	34,339	78,721
Term Debt & Cap. Lease Cov. Ratio		1.64	2.11	2.59	1.43	1.56	1.22	1.56
WCIAGI		22.58%	30.06%	25.63%	21.52%	19.49%	23.14%	23.11%

48

INCOME STATEMENT	Cost/Cash	Mkt/Accrual
For Year Ended	12/31/18	12/31/18
REVENUES		
Crops and Feed		
Cash Sales	\$2,438,927	\$2,438,927
Inventory Change	0	341,836
Gov't Payments	307,374	307,374
Hedging Transactions Income	68,586	68,586
Hedging Adjmt-Unreal Gains(Losses)		12,000
Other Cash Farm Income	327,501	327,501
Change in Accts Receivable	0	(30)
Unearned Income Adjustment		0
TOTAL REVENUE	\$3,142,389	\$3,496,195
Less: Lvstk/Other Resale Purchases	\$0	\$0
Operating Margin	\$3,142,389	\$3,496,195
Gain(Loss) on Disposal Cap Assets	226,987	226,987
Total Income	3,369,375	3,723,181
EXPENSES		
Cash Operating Expenses	\$2,646,176	\$2,646,176
Exp Adjmt-Unused Assets		3,003
Exp Adjmt-Unpaid Items		(17,575)
Depreciation		
Machinery & Equipment	277,931	237,605
Buildings & Improvements	75,235	40,955
Cash Interest Expense	88,476	88,476
Accrued Interest Change		(124)
TOTAL EXPENSES	\$3,087,819	\$2,998,516
NET FARM OPERATING INCOME	281,557	724,665

Project
+443k

In Unreal
Gain!

49

- ### Financial Literacy Resources
- ❑ Farm Futures Magazine/FFSC – Financial Boot Camp
→ <https://www.farmfuturesummit.com/en/ag-finance-boot-camp/boot-camp>
 - ❑ King Ranch Institute – Managerial Acctg Lectureship
→ <http://krirm.tamuk.edu/accounting/>
 - ❑ NW Farm Credit System – Learning Center
→ www.northwestfcs.com/eLearning
 - ❑ Centrec Consulting
→ www.centrec.com/self-study
 - ❑ Farm Financial Standards Council – Financial Guidelines
→ www.FFSC.org
 - ❑ Wittman Consulting-Financial models, templates, trend sheets
→ www.wittmanconsulting.com
 - ❑ FINPACK – ratio definitions, templates
→ www.cffm.umn.edu/finpack/
 - ❑ Wisconsin-PDPW: Financial Literacy Program
→ www.pdpw.org/programs/PDPWFinancialLiteracyForDairy20192020/details
 - ❑ Kansas (Approved for FSA Borrowers Financial Training Credit)
→ [Kansas:www.agmanager.info/events/farm-financial-skills-kansas-women-agriculture](http://www.agmanager.info/events/farm-financial-skills-kansas-women-agriculture)

55

Summary *"If don't know where you want to go, any road will take you there!"*



- ❑ **½ "think" they know** what's ahead...and the rest???
 - ❑ Build a cashflow management process that fits your business & projects financial outcome
 - ❑ Execute plan giving balanced attention to people, strategy and operations
 - ❑ Monitor & Adjust Performance regularly
 - ❑ Think strategically about ways to "beat budget"
 - Know baseline (proforma), risk (variability) & set targets for improvement
 - Optimize "effective rates" when managing cash
 - Take advantage of "liquidity savers" , "cost reducers," "revenue enhancers"
-