THE BALANCE SHEET

by

Joe Guenthner UI Extension Economist

MP-9

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Joe Guenthner UI Extension Economist, Idaho Falls

I am going to discuss what is probably the most important financial statement in agriculture in particular and business in general. It is called the balance sheet. The concept of it is simple: it subtracts what you owe from what you own. The difference is called the net worth.

I have heard farmers and ranchers say they don't really know what their operations are worth. Most know quite well how much agricultural land is selling for in their area. But they also know that if they sold out, Uncle Sam would take a big chunk. This may cause confusion.

Information from their accountants can also be confusing. Many accountants don't understand agriculture. Most accountant-prepared balance sheets have land valued at what was paid for it. If you bought some irrigated ground for \$50 per acre 30 years ago some accountants will use that value in the balance sheet even if it's worth \$2000 per acre today.

I'm passing out copies of an article I clipped from the Wall Street Journal last spring. It says that Idaho has more millionaires per capita than any U.S. state. I know that I am not one of them but I also know that some of you in this room are. A few of you may have a net worth in excess of a million dollars and not realize it.

My purpose today is not to get you to figure out how much you are worth.

What I hope to do is get you to better understand what a farm or ranch balance sheet is, how it can be prepared, and how it can be used in your business.

In the past, agricultural lenders didn't usually require detailed financial statements from their clients such as lenders to other businesses always have.

^{*}Talk given at the Farm and Ranch Executive Seminar, Sun Valley, Idaho, January 21, 1982.

Due to rising costs, low profit margins, uncertain commodity prices, and huge increases in farm debt agricultural lenders are changing the way they do business. The majority now want to at least see a balance sheet and many want to see much more financial information.

Lenders are getting financial information in three ways:

- (1) from the farmer's accountant
- (2) by filling out forms with the farmer in his office (the upside down balance sheet)
- (3) by requiring the client to provide financial statements.

My opinion is that it is in your best interest to do it yourself or, at the very least, understand how some other well-qualified person is doing it. For a balance sheet to be any good it needs to be accurate. That is your responsibility.

Lenders need a balance sheet to analyze the borrower's financial position and the collateral that is available to back up a loan. Different lenders prepare balance sheets in different ways. Many banks use their own forms exclusively. Most, however, recognize the value of having one universal form used by everyone.

A set of financial statements has recently been developed that is gradually becoming accepted as the universal form. The set is called the Coordinated Financial Statements for Agriculture. I am passing out some order forms for this. Other forms can also work well and I am not trying to sell this system. However, for the rest of my talk I will be talking about the balance sheet from this set.

Next, I am going to show some slides regarding the balance sheet. Gene Nelson, the gentleman here from Oregon State University gets the credit for making these slides. I'll give a narrative along with the slides.

SLIDES 1 - 42

I am handing out a balance sheet for an operation that doesn't exist. Wilson Gray and I designed this operation in our heads. It is a potato and cattle operation that maybe some of you can relate to.

I want to see if you have been listening. Notice that on the front page the market value net worth figure has not been filled in. I want each of you to do this calculation. I'll wait for the correct answer. (USE OVERHEAD) The correct answer is \$1,557,208.

I will now continue with the slides.

SLIDES 43 - 80

Let's again look at the example balance sheet. On the back of the first page I want you to calculate the change in net worth due to inflation. The answer is \$57,283. You may want to know where some of the numbers in this balance sheet come from. These four overhead transparancies show the nine supporting schedules that were used to construct this balance sheet.

Some of you may not understand how the contingent income tax liabilities were calculated. The following three overhead transparancies show the calculations.

Let's now calculate some of the financial figures for this operation. We earlier calculated the net worth to be \$1,557,208. I want each of you to now calculate the current ratio (2.9), the debt to worth ratio (.37), and the current debt ratio (.28).

Now let's assume that this operation decides to buy 500 acres of irrigated land at \$900,000. They sell some of their crops in storage and make a down payment of \$300,000. They take out a loan for the remaining \$600,000.

What is the new net worth? (no change)

The Balance Sheet page 4

What is the new current ratio? It drops from 2.9:1 to 1.1:1.

Remember: bankers like to see a ratio of 2:1 or higher. Is this a wise decision? What else can he do?

The debt to worth ratio increases from .37 to .48. The current debt ratio drops from .28 to .14. Both are still acceptable.

The point is that many of the decisions you make can affect your financial situation. Before making major decisions such as debt restructuring or buying land you may want to see what it does to your balance sheet.

BALANCE SHEET

WHAT YOU OWN (ASSETS)

MINUS

WHAT YOU OWE (LIABILITIES)

EQUALS

NET WORTH

CONTIGENT INCOME TAX LIABILITY CALCULATION

- (1) FIND THE AMOUNT YOU WOULD PAY TAX ON.
- (2) FIND THE RATE YOU WOULD BE TAXED AT.
- (3) MULTIPLY THE AMOUNT IN (1) BY THE RATE IN (2).

(1) AMOUNT FOR CURRENT ASSET TAX LIABILITY

CURRENT	TAXABLE ASSETS:		
	LIVESTOCK	14,791	
	CROPS AND FEED	290,944	
	SUPPLIES	4,240	
	PREPAID EXPENSES	1,400	
	TOTAL		311,375
Current	DEDUCTIBLE LIABILITIES:		
	ACCOUNTS PAYABLE	3,060	
	ACCRUED INTEREST	23,161	
	ACCRUED PROPERTY TAX	1,607	
	ACCRUED REAL ESTATE TAX	6,034	
	TOTAL		33,862
Амоинт т	O PAY TAX ON		277,513

(2) FINDING THE MARGINAL TAX RATE

USE AVERAGE OR TYPICAL-YEAR INCOME

U.S.	CORPORATE	INCOME	TAX	RATES	(1982)
------	-----------	--------	-----	-------	--------

First \$25,000	16%
\$25,000 - 50,000	20%
\$50,001 - 75,000	30%
\$75,001 - \$100,000	40%
Over \$100,000	46%

IDAHO CORPORATE INCOME TAX RATE = FLAT 6.5%

IDAHO POTATO AND CATTLE EXAMPLE

1981 Income of \$140,127 was unusual Income of \$50,000 to \$75,000 more typical

CALCULATION

FEDERAL RATE + STATE RATE (1 - FEDERAL RATE)

$$=$$
 .30 + .065 (1 - .30)

$$= .30 + .0455$$

= .3455

(3) CONTINGENT INCOME TAX LIABILITY ON CURRENT ASSETS

$$277,513 \quad X \quad .35 = 97,129.55$$

OTHER CONTINGENT INCOME TAX LIABILITIES

- 1. Marketable securities (capital gain) (26,000 6500) X .4 X .35 = \$2,730
- 2. Machinery $(300,750 254,763) \times .35 = $16,095$
- 3. Breeding stock (capital gain) 30,691 X .4 X .35 = \$4,297
- 4. REAL ESTATE (CAPITAL GAIN)
 (1,270,200 429,600) X .4 X .35 = \$117,684

IDAHO POTATO & CATTLE

CALCULATE THE FOLLOWING AT MARKET VALUE

- 1. NET WORTH = 1,557, 208
- 2. CURRENT RATIO = 2.9
- 3. DEBT TO WORTH RATIO = ______37
- 4. CURRENT DEBT RATIO = ____.28

The operation decides to buy 500 acres of irrigated land for \$900,000. A down payment of \$300,000 comes from cash on hand and crops sold out of storage. A loan for \$600,000 is taken. Calculate the following at market value.

- 1. NET WORTH = same
- 2. CURRENT RATIO = /./
- 3. DEBT TO WORTH = .48
- 4. CURRENT DEBT RATIO = . 14

2								6				
-				SCHEDUL	E 1 —	SECURI	TIES					
No. of Shares		Depositorio		Date		ercent	the second secon	or Ba			The second second second	Market Valu
or Face Value	Des	scription		Acquired		wned	Per Unit		Total		Per Unit	Total
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300	Facmlana	1 State 1	Jank.			100	\$ 12.50		1,50V			\$ 10,000
800	United C	<u> </u>		1972	1	100	5.00	1	1000		20.00	16,000
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				1			TOTAL	5	6.50	0		\$ 26,000
				NOT REA	DILY M	ARKETA		-				
5,985	rederal Lo	and Bank	4	1970		100	\$ 5.00	\$,29	192	5 5.	5.00	\$29,925
						-						-
								-	-			-
						- Capacina		-				-
							TOTAL	S 2	1,925			5,29,925
	SCHEDULE 2 -							ULE 4		EDING S		,
married to the same	em	Quantity	Va		Number		Description		Age	Wt.	\$/Unit	Value
Diesel 4	uel	1000 gal	\$ 1,100	2	10		Fer Calu	62	1/2	470		5 2,491
trasoline Oil		750 gal	900		l	Bu	II VaiCa	-	3	1500	1200	5,000
Grease		100 gal	300		10_	Cov	d Heifer	.5	3.5	850		22,000
Ports		10,001	1,30		_45_				2.1_	1000		MIL, CL
Vetering	y-Medical		60									
	. I										-	
											-	-
											-	-
		+								-		
										-		
- ACHEDINE	2 DEDCOMAL 6	TOTAL	\$ 4,2	00	-					-		-
Commence of the second	3 — PERSONAL 8 & Model	Year		lue						-	-	-
Mane (S. Model		\$							-	-	-
										1		

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		+								-	-	
		-									-	1
		i					21. 32c. 12		***	-		
	The State of				-5-							
		1017(\$								TOTAL	\$.30,69

OWNED:	Legal Description	T	itle Held in Name of	Percent Owned	Date Acquired	Acres	Cost or Basis	Accumulated Depreciation	Book Value	Estima Mkt. V
ct 1 Land	5 /2 Sec 20, Sec 21	Id	Pot. & Cat.	100	1964	A STATE OF THE PARTY NAMED IN	\$ 360,000	\$	\$ 360,000	-
Residence			12.00							
Service bldgs.				100	1964		25,000	25,000	0	
mprovements	Sterage			100	1975		100,000	327,400	69,600	110,00
	Barn & Corrals			100	1970		3.800	3.800	0	3,200
				-						
				-						
				-						
		-								
	L				TOTAL	960	\$ 487,800	\$ 58,200	\$429,600	\$1,270
REN	NTED: Legal Description		Lar	ndlord		Туре	of Lease	Expires	Acres	Cash R
										\$
		-								
			SCHEDULE 6	- NON-F	ARM REA	L ESTAT	E	TOTAL		\$
	Description		Title He Name	eld in	Percent	Date Acquired	Cost or	Accumulated Depreciation	Book Value	Estima Mkt. V
							\$	\$	\$	\$
										-
				-6-		TOTAL		\$	\$	S

Personal
Business
Consolidated

BALANCE SHEET
Idaho Potato & Cattle

As of Dec. 31 , 198

Phone

Surrent Assets	Modified Cost	Market Value	Current Liabilities LIABILITIES AND	Modified Cost	ALC: NAME OF TAXABLE PARTY.
ash (on hand) or in checking	\$ 20,127	\$ 20, 127	Accounts payable:		- House
Savings accounts & time certificates	120,000	130,000	Labor \$ 1,300 Feed & seed \$ 360		
Hedging account equity			Repairs HOO_ Fert & chem		
Marketable bonds & securities (Sch. 1)	6,500	26.000	Storage Fuel & oil		11-
Notes & accounts receivable (good)			Other Mach hire	\$ 3,060	S 3,00
Livestock & poultry to be sold.		2.5	Medical & other personal		
Kind No A/g WI S/Unit Value			Notes payable within 12 months		
Steers 22 500 .62 6.820			(to whom, maturity, purpose)		
teisers 10 470 53 2,491	1				-
Cours 10 1000 .37 3.700				-	
Bull 1 1700 50 850	1			AC CONTRACTOR	
Call Hr. 2 850 .547 930					
egeren beril a land in a			Principles of the Control of the State of th		
			Principal portion of longer term debts		*****
	14,791_	14,791	due within 12 months (Sch. 8):		
Crops and leed:		_11j.5_(1	Intermediate	18, 322	18,322
item Quant Unit Sount Value			Long term	9,000_	9,000
Statoes 40,000 cut 6.00 240,000			Estimated accrued interest on		
cheut 6,000 bu 3.50 21,000			Accounts \$Notes \$		
Hay 145 T 60 8.700			Intermediate liabilities \$ 2,567		
Barley 4.000 cut 5.00 20.000			Long term liabilities \$20.594	23,161	23, 161
8. Barley 216 Cut 5.50 1,188					
Min. Sup 17 cut 3.28 36		202 0.11	Estimated accrued tax liability:	1.000	1,900
dash investment in growing crops:	290,944	290,944	Properly	7,600	7.600
Crop Acres S/Ac Value	1		Real estate		-ucc
S Ac Alide	-		Income & Soc. Sec.		
	1				
		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Accrued rents & lease payments		
Supplies (Sch. 2)	4,240	_ 4.240_	Other (including relatives) Contingent income tax liability:	nameteneni	E.T.
Prepaid expenses	_ 1,400_		Current assets		97.130
Other			Marketable securities		
TOTAL CURRENT ASSETS	S NKO AND	S HOT ENT	TOTAL CURRENT LIABILITIES	5 1,3 M3	516 9
ntermediate Assets	1100,00.2	111,000	Intermediate Liabilities (Sch. 8)	40,010	
	S 10 E 55	2 15 745	The state of the s		
Voles & accounts receivable (good)	12,500	14'500	Notes payable	5 19,881	\$ 19.881
Machinery, equipment, trucks (Sch. 9):	1020782000000000000000000000000000000000	201 (50	Livoles Davable		
Cost or Rasis Sulla one	4747-668-12012-668-618-1011	Tariti dan da	Sales contracts		-1100
Cost or Basis SH62,925	254 763		Sales contracts		
Cost or Basis SH62,925 Less accumulated dep S 208, 162	254, 763_		Sales contracts Life insurance policy loans	5,000	-
Cost or Basis \$463,935 Less accumulated dep \$228,162 Breeding stock (Sch. 4)	254, 763_ 30. 691_	30.671	Sales contracts Life insurance policy loans Other		5.000
Cost or Basis \$463,935 Less accumulated dep \$228,162 Breeding stock (Sch. 4) Retirement accounts (IRA, HR-10)			Sales contracts Life insurance policy loans Other Contingent income tax liability:		5.000
Cost or Basis \$462,925. Less accumulated dep \$228,162. Breeding stock (Sch. 4) Retirement accounts (IRA, HR-10) Cash value of life insurance (Sch. 7) Securities not readily mktable (Sch. 1)	30.691_	30.67[Sales contracts Life insurance policy loans Other Contingent income tax liability Machinery Breeding stock		5.000
Cost or Basis \$462,925. Less accumulated dep \$228,162. Breeding stock (Sch. 4) Retirement accounts (IRA, HR-10) Cash value of life insurance (Sch. 7) Securities not readily mktable (Sch. 1) Personal & recreational vehicles (Sch. 3)	30.691_	30.69I 13.500	Sales contracts Life insurance policy loans Other Contingent income tax liability Machinery Breeding stock Securities not readily mktable		
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Cost or Basis SH63,935 Less accumulated dep S 208, 163 Breeding stock (Sch. 4) Retirement accounts (IRA, HR-10) Cash value of life insurance (Sch. 7) Securities not readily mktable (Sch. 1) Personal & recreational vehicles (Sch. 3) Household goods & personal effects Other TOTAL INTERMEDIATE ASSETS	30.691_ 	30.69I 13.500	Sales contracts Life insurance policy loans Other Contingent income tax liability Machinery Breeding stock Securities not readily mktable Contingent income tax liability & interest penalty on retirement accts TOTAL INTERMEDIATE LIABILITIES	5,800	5.000
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Cost or Basis Less accumulated dep \$228, 162 Breeding stock (Sch. 4) Retirement accounts (IRA, HR-10) Cash value of life insurance (Sch. 7) Becurities not readily mktable (Sch. 1) Personal & recreational vehicles (Sch. 3) Household goods & personal effects Other TOTAL INTERMEDIATE ASSETS Fixed Assets Contracts & notes receivable Farm real estate (Sch. 5)	30.691 13.500 29,925 5 341.379	30.691 13.500 29.925	Sales contracts Life insurance policy loans Other Contingent income tax liability Machinery Breeding stock Securities not readily mktable Contingent income tax liability & interest penalty on retirement accts TOTAL INTERMEDIATE LIABILITIES Long Term Liabilities (Sch. 8)	5,800	5.000
Cost or Basis SH63, 925 Less accumulated dep S 208, 162 Breeding stock (Sch. 4) Retirement accounts (IRA, HR-10) Cash value of life insurance (Sch. 7) Becurities not readily mktable (Sch. 1) Personal & recreational vehicles (Sch. 3) Household goods & personal effects Other TOTAL INTERMEDIATE ASSETS Fixed Assets Contracts & notes receivable farm real estate (Sch. 5) Cost or Basis SH87, 800	30.691 13.500 29,925 5 341.379	30.67 13.500 _29.925 	Sales contracts Life insurance policy loans Other Contingent income tax liability Machinery Breeding stock Securities not readily mktable Contingent income tax liability & interest penalty on retirement accts TOTAL INTERMEDIATE LIABILITIES Long Term Liabilities (Sch. 8) (Principal due beyond 12 months) Mortgage on farm real estate Land contracts	5,674 [88,45, a	5.000 16.095 4.297
Cost or Basis SH63, 925 Less accumulated dep S 208, 163 Breeding stock (Sch. 4) Betirement accounts (IRA, HR-10) Cash value of life insurance (Sch. 7) Becurities not readily mktable (Sch. 1) Personal & recreational vehicles (Sch. 3) Household goods & personal effects Other TOTAL INTERMEDIATE ASSETS Fixed Assets Contracts & notes receivable Farm real estate (Sch. 5) Cost or Basis SH87, 800 Less accumulated dep S 52, 200	30.691 13.500 29,925 3,925 5 341.379	30.67 13.500 _29.925 	Sales contracts Life insurance policy loans Other Contingent income tax liability: Machinery Breeding stock Securities not readily mktable Contingent income tax liability & interest penalty on retirement accts TOTAL INTERMEDIATE LIABILITIES Long Term Liabilities (Sch. 8) (Principal due beyond 12 months) Mortgage on farm real estate Land contracts Mortgage on non-farm real estate	5,674 [88,45, a	5.000 16.095 4.297
Cost or Basis SH63,935 Less accumulated dep S 208, 163 Breeding stock (Sch. 4) Betirement accounts (IRA, HR-10) Cash value of life insurance (Sch. 7) Securities not readily mktable (Sch. 1) Personal & recreational vehicles (Sch. 3) Household goods & personal effects Other TOTAL INTERMEDIATE ASSETS Fixed Assets Contracts & notes receivable Farm real estate (Sch. 5) Cost or Basis SH87,800 Less accumulated dep S 52,200 In-farm real estate (Sch. 6)	30.691 13.500 29,925 5 341.379	30.67 13.500 _29.925 	Sales contracts Life insurance policy loans Other Contingent income tax liability: Machinery Breeding stock Securities not readily mktable Contingent income tax liability & interest penalty on retirement accts TOTAL INTERMEDIATE LIABILITIES Long Term Liabilities (Sch. 8) (Principal due beyond 12 months) Mortgage on farm real estate Land contracts Mortgage on non-farm real estate Other	5,674 [88,45, a	5.000 16.095 4.297
Cost or Basis Less accumulated dep \$ 208, 162 Breeding stock (Sch. 4) Retirement accounts (IRA, HR-10) Cash value of life insurance (Sch. 7) Securities not readily mktable (Sch. 1) Personal & recreational vehicles (Sch. 3) Household goods & personal effects Other TOTAL INTERMEDIATE ASSETS Fixed Assets Contracts & notes receivable Farm real estate (Sch. 5) Cost or Basis Less accumulated dep \$ 52,200 Infarm real estate (Sch. 6)	30.691 13.500 29,925 5 341.379	30.67 13.500 _29.925 	Sales contracts Life insurance policy loans Other Contingent income tax liability Machinery Breeding stock Securities not readily mktable Contingent income tax liability & interest penalty on retirement accts TOTAL INTERMEDIATE LIABILITIES Long Term Liabilities (Sch. 8) (Principal due beyond 12 months) Mortgage on farm real estate Land contracts Mortgage on non-farm real estate Other Contingent capital gains tax liability:	5,674 [88,45, a	5.000 16.095 4.297 5 45.273
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Cost or Basis SH63, 925 Less accumulated dep S 228, 163 Breeding stock (Sch. 4) Retirement accounts (IRA, HR-10) Cash value of life insurance (Sch. 7) Securities not readily mktable (Sch. 1) Personal & recreational vehicles (Sch. 3) Household goods & personal effects Other TOTAL INTERMEDIATE ASSETS Fixed Assets Contracts & notes receivable Farm real estate (Sch. 5) Cost or Basis SH87,800 Infarm real estate (Sch. 6) Infarm real estate (Sch. 6) Infarm real estate (Sch. 6)	30.691 13.500 29,925 5 341.379 5	30.691 13.500 _29.925 \$ 387,366 \$ _1,270,200	Sales contracts Life insurance policy loans Other Contingent income tax liability Machinery Breeding stock Securities not readily mktable Contingent income tax liability & interest penalty on retirement accts TOTAL INTERMEDIATE LIABILITIES Long Term Liabilities (Sch. 8) (Principal due beyond 12 months) Mortgage on farm real estate Land contracts Mortgage on non-farm real estate Other Contingent capital gains tax liability: Real estate	5,000 \$,252,000 \$ 252,000	5.000 16.075 4.297 \$ 45.273 \$ 252.000 117.684 \$ 369.68
Cost or Basis Less accumulated dep \$208, 162 Breeding stock (Sch. 4) Betirement accounts (IRA, HR-10) Bash value of life insurance (Sch. 7) Becurities not readily mktable (Sch. 1) Personal & recreational vehicles (Sch. 3) Household goods & personal effects Dither TOTAL INTERMEDIATE ASSETS Fixed Assets Contracts & notes receivable Farm real estate (Sch. 5) Cost or Basis Less accumulated dep \$ 52,200 Infarm real estate (Sch. 6) Sither	30.691 13.500 29,925 5 341.379 5	30.691 13.500 _29.925 \$ 387,366 \$ _1,270,200	Sales contracts Life insurance policy loans Other Contingent income tax liability Machinery Breeding stock Securities not readily mktable Contingent income tax liability & interest penalty on retirement accts TOTAL INTERMEDIATE LIABILITIES Long Term Liabilities (Sch. 8) (Principal due beyond 12 months) Mortgage on farm real estate Land contracts Mortgage on non-farm real estate Other Contingent capital gains tax liability: Real estate TOTAL LONG TERM LIABILITIES	5,000 \$,24,88] \$,252,000 \$,252,000 \$,331,924	5.000 16.095 4.297 \$ 45.273 \$ 252.000 117.684 \$ 369.68

	COURT COURT	10.00				and an .				
2.	Ages of dependents				17 Yes	I.I No		, cool at 1	ncome tax	,
3.	Marital status: (Do not co	9	Are any ta	axes delinque	nt or under dis	spute?	[] Yes			
J.	vidual unsecured credit u	unless you reside in a on which you are rely	op- 10. for		defendant in mechanic's lie					
	repayment of the credit property state.)		in a commun	11.	Have you	prepared a wi	ill and/or esta	te plan?	☐ Yes	
	☐ married ☐ separ ☐ unmarried (single, div				How rece	ntly?				
4.	Spouse or other person:		eck as applicab	le) 12.	List off-la	ırm employme	nt, if any:			
Ų.	a spouse or other person	is a:								
	() co-applicant, or () come or assets of a spouloan.					contingent liab nd amounts);		orser, co-	-signor or	guara
	Name									
	Address									
	Employer									
	Involvement in farm oper					e on buildings			\$	
j.	Form of business organiz	ration:		15.	Insurance	e on machiner	ry, equipment	, and	\$	
3.	If applicant is or include				Insurance	e on crops			\$	
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TITLE:

Describing Your Financial Position With a Balance Sheet

Author:

Tiff Harris

No. of Slides: 80

Time:

SLIDE 1: Black (Establish music)

SLIDE 2: (Music under)

Borrowing large amounts of money to finance farm operations is a common and necessary practice in American agriculture. In fact, the amount of capital borrowed per farm in the U.S. has tripled over the past 10 years.

SLIDE 3:

The large amount of credit used in agriculture today requires farmers to carefully manage borrowed money. While successful farmers are quick to point out the importance of developing their own financial management skills,

SLIDE 4:

they also emphasize the importance of working closely with their agricultural lenders. Lenders are, after all, specialists in agricultural credit, and can serve an important role as financial advisors to farmers.

SLIDE 5:

To do so, however, farmers and their lenders must be able to communicate clearly with one another. Lenders need a great deal of financial information as they make their decisions about loan applications, and most of this information must be provided by farmers, and in ways that lenders can use.

SLIDE 6:

Given the complexity of modern farm operations, what \underline{is} the best way to organize and provide all the financial information needed by lenders?

SLIDE 7:

More and more farmers are turning to a coordinated set of financial statements that have been developed specifically for agriculture.

SLIDE 8:

In this program, we'll briefly explore the first of these coordinated statements: the Balance Sheet. SLIDE 9: (Music up)

TITLE: Describing Your Financial Position With a Balance Sheet (Music out on slide change).

SLIDE 10:

Preparing a Balance Sheet is a logical first step toward better communication with lenders, because it provides them with the information they need to analyze the current financial position of a farm business.

SLIDE 11:

A Balance Sheet is like a snapshot of the farmer's financial situation. It describes what is owned, what is owed to others, and the difference between the two at one moment in time. That moment in time is the last day of the tax year, which for most farmers is December 31.

SLIDE 12:

To show what goes into a Balance Sheet, we'll be looking at one developed by Fred Farmer for his operation. We'll begin with a quick tour of Fred's completed Balance Sheet, noting some of its important features. Then we'll talk about what it tells Fred and his lender, and wind up with a few tips on how to prepare a Balance Sheet.

SLIDE 13:

The first thing you'll notice about this Balance Sheet is that it's divided right down the middle. On the left side, Fred has recorded the dollar value of all the things he owns that have marketable value. These are called assets.

SLIDE 14:

On the right side of the form are Fred's liabilities and net worth. Liabilities are the dollar value of all Fred's debts and obligations.

SLIDE 15:

At the bottom of the right side is Fred's net worth. To find his net worth, Fred subtracts his total liabilities from his total assets. Doing this simple calculation is like pretending that he has sold all his assets and paid off all his debts and other obligations. The amount left over is his net worth.

SLIDE 16:

Finding this net worth is the main reason for doing a Balance Sheet. In Fred's case, it tells him the difference between what he owns and what he owes to others as of December 31.

SLIDE 17:

Fred's net worth reflects the value of both his personal and business assets and liabilities. That's why this is called a consolidated Balance Sheet. It is possible to develop a Balance Sheet which includes <u>only</u> business assets and liabilities, but for farmers it's usually more convenient to combine the personal and business aspects of the operation.

SLIDE 18:

The dollar amount of Fred's net worth depends on the value of his assets and liabilities. Because there are two ways to place a dollar value on assets and liabilities, there are two columns on either side of the Balance Sheet. One column is labeled "Modified Cost"; the other "Market Value".

SLIDE 19:

In the Modified Cost column on the asset side, Fred has valued his securities, machinery, and real estate according to what he paid for them, less any depreciation.

SLIDE 20:

In the Market Value column, he's recorded the value of his assets according to what he would receive for them if he were to sell them on December 31st.

SLIDE 21:

On the liability side, you'll notice there are entries in the market value column that don't show up in the cost column. These entries make the market value of total liabilities higher than the corresponding cost value. We'll explain why this difference exists in a few minutes.

SLIDE 22:

Now, then, because there are two ways to value assets and liabilities, Fred ends up with two net worth figures. The difference between assets and liabilities in the cost column reveals his "modified-cost net worth", and the Market Value column shows Fred's "market-value net worth". Both of these figures are important.

SLIDE 23:

When looking at changes in net worth from year to year, it's helpful to realize that while market value net worth <u>may</u> be going up because of reinvested net income, this figure also includes the effects of inflation.

SLIDE 24:

Some assets go up in market value each year simply because of inflation. Land is a good example. Fred's market value net worth, however, does indicate how much collateral he has to back up a loan.

SLIDE 25:

An increase in his modified-cost net worth, on the other hand, <u>definitely</u> shows that Fred is reinvesting his net income, because this figure does <u>not</u> include the effects of inflation. In other words, changes in his cost net worth reflect on Fred's ability as a financial manager. Now then, to get an idea of the kind of information that goes into a Balance Sheet, let's take a closer look at Fred's assets and liabilities.

SLIDE 26:

There are three categories of assets and liabilities: current, intermediate, and fixed or long term. By comparing the different groups of assets with the corresponding groups of liabilities, Fred can look at the current, intermediate, and long term financial position of his business.

SLIDE 27:

Assets are classified according to the relative ease with which they can be sold and converted to cash. Liabilities are classified according to when they fall due. (Pause - 2 beats).

SLIDE 28:

Fred's current assets are cash, or anything he can convert to cash in short order without disrupting the normal operation of his business. In addition to cash, they consist of his savings, equity in a hedging account, marketable securities, notes receivable, livestock to be sold, crops and feed in storage, cash invested in his growing crops, supplies on hand and some prepaid expenses. Note that the cost and market values are the same for all these assets

SLIDE 29:

except for marketable securities, where the market value is now higher than what these securities cost Fred several years ago.

SLIDE 30:

Fred's intermediate assets consist of production items with a useful life of between one and ten years, such as machinery, equipment, and breeding stock. Also included here are things like the money Fred has in a retirement account, the cash value of his life insurance, securities that are not readily marketable, his personal vehicles, and his household goods.

SLIDE 31:

The cost of Fred's machinery, sometimes referred to as "book value", is equal to what he originally paid for the asset minus the depreciation charged off over the years. You'll notice that market value is higher than book value, which simply means that Fred could sell his machinery for more than the book value.

SLIDE 32:

Fixed assets are permanent in nature, and consist primarily of real estate and its improvements. In Fred's case, he has both farm and non-farm real estate. The cost total is equal to the amount Fred originally paid for his farm real estate, minus accumulated depreciation, plus the \$20,000 value of his house. Not surprisingly, the market value of Fred's real estate is considerably higher than the cost total. He bought the land several years ago and its value has gone up.

SLIDE 33:

Okay. Adding Fred's current, intermediate, and fixed assets together reveals the value of his total assets \$705,300 on a cost basis, and \$1,231,555 at market value. (Pause)

SLIDE 34:

Over on the liabilities and net worth side of the Balance Sheet, Fred has recorded all his debts and obligations. His current liabilities are those due within the operating year. He has accounts payable for repairs, feed and seed, and supplies. He also has a note payable, and is liable for a portion of the principal of his longer term debts the portion due within the next 12 months. Along with this liability for principal, Fred has \$16,264 in accrued interest.

SLIDE 35:

Accrue means to accumulate over time. Accrued interest is the unpaid interest which has accumulated on Fred's debts since his last payments. This is the amount Fred would have to pay in interest if he paid off his loans on December 31st.

SLIDE 36:

Similarly, Fred has some accrued taxes and accrued rent for the pasture land he leases. (Pause - 2 beats).

SLIDE 37:

For the liabilities we've looked at so far there is no difference between the figures in the Modified Cost column and those in the Market Value Column. The total current liabilities, however, <u>are</u> different in the two columns. This is because the market value total includes a kind of liability not found in the cost column. You see, if Fred really did sell his assets at their market value, he'd have to pay tax on the revenue he'd receive from the sale.

SLIDE 38:

In other words, he has a contingent income tax liability contingent on the sale of the assets. In Fred's case, the contingent income tax liabilities associated with his current assets and marketable securities are \$54,968 and \$1,950 respectively. Adding up both columns gives Fred's total current liabilities as you see here.

SLIDE 39:

Intermediate liabilities are those due from one to 10 years beyond the Balance Sheet date. For Fred, they consist of notes payable, a loan on the cash value of his life insurance, and contingent income tax liabilities. These contingent tax liabilities depend on the market value of Fred's machinery and breeding stock. Also included here are the taxes and interest penalty he would incur for early withdrawal from his retirement account.

SLIDE 40:

On a cost basis, Fred's long term liabilities consist of the unpaid balance on his mortgage, minus the principal payment due within 12 months. That was included above under current liabilities. The market value total of his long term liabilities includes the mortgage, plus a contingent capital gains tax liability which he would incur should he sell his land.

SLIDE 41:

Adding Fred's current, intermediate, and long term liabilities together results in total liabilities of \$331,869 on a cost basis and \$511,232 at market value. (Pause)

SLIDE 42:

To calculate his net worth, then, Fred subtracts his total liabilities from his total assets. On a modified-cost basis, Fred's net worth is \$373,431, and at market value his net worth amounts to \$720,323. In other words, if Fred sold out on December 31st and paid off all his liabilities, including the income taxes that would be due, he'd have \$720,323 left over. (Music in, carry under)

Ldal example
SLIDE 43:

So far we've talked about what a Balance Sheet is, and the kind of information that goes into one. We've looked at Fred's assets and liabilities, and calculated his net worth. The next thing we want to do is take a look at some ways Fred can <u>use</u> his Balance Sheet to help manage his finances.

SLIDE 44:

Fred's lender helps him interpret the information in his Balance Sheet. This interpretation usually consists of comparing various numbers on the Balance Sheet to one another.

SLIDE 45:

Comparing numbers is done by calculating the ratio of one number to the other. These ratios convert the numbers on a balance sheet into meaningful information. There are quite a few ratios that can be calculated, but for our purposes we'll be looking at three which describe the financial soundness of Fred's business.

SLIDE 46:

One of the most often used ratios is called the "current ratio", and it measures the ability of the business to pay all of its current liabilities out of its current assets. In other words, it answers the question: "if all your current liabilities came due at the same time, could you cover them with your cash or near cash assets?"

SLIDE 47:

The current ratio is calculated by dividing current assets by current liabilities. In Fred's case, his current ratio is 1.25 to 1. Lenders generally agree that a truly safe level is about 2 to 1, so Fred's current position is not ideal. The higher the ratio, the safer is the short-run financial position of the business.

SLIDE 48:

Another thing Fred would like to know is how much he depends on borrowed capital to finance his business, and how much of it is financed by the investment of his own capital.

SLIDE 49:

He can determine this by calculating what is known as the "debt to worth ratio". This calculation is done by dividing Fred's total liabilities by his net worth.

SLIDE 50:

The result is a debt to worth ratio of .7 to 1 which Fred's lender finds acceptable. Agricultural lenders like to see a ratio of 1 to 1 or less. For this one, a higher number is not good, because the higher the debt to worth ratio, the greater is the risk of financial problems.

SLIDE 51:

A third ratio focuses attention on the structure of Fred's liabilities. Called the "current debt ratio", it shows what portion of Fred's total liabilities will come due within 12 months.

SLIDE 52:

This ratio is calculated by dividing total current liabilities by total liabilities. Fred's current debt ratio is .3 to 1, which means that he has 30¢ in current liabilities for every one dollar in total liabilities. There's no best level for this ratio, but the higher the ratio the greater the demands on cash flow to make debt payments on time.

SLIDE 53:

A high current debt ratio may indicate a need to refinance some short term debts. Too often, farmers finance the purchase of intermediate assets with shorter term loans. Generally, loans should be structured to allow repayment over a period of years corresponding to the expected life of the asset.

SLIDE 54:

Fred can use these ratios to help make management decisions. For example, suppose he was thinking about selling his inventory of grain to purchase a new \$50,000 tractor. This decision would change the composition of his assets and liabilities

SLIDE 55:

and his current ratio would drop from 1.25 to .9, which means that this decision would make an already tight current financial situation even worse. Let's take another example.

SLIDE 56:

Suppose Fred's thinking of refinancing his land debt in order to purchase another \$500,000 worth of farm real estate. This transaction would change his fairly safe debt to worth ratio of .7 to a more risky 1.4. In other words, he'd have to be much more careful in his management to avoid financial failure.

SLIDE 57:

Fred can use his Balance Sheet for other things as well. Suppose it's now one year later, and Fred has just finished his new Balance Sheet. Using this Balance Sheet, and the one from last year, Fred can complete his Income Statement for the year.

SLIDE 58:

On the back side of the Balance Sheet is a section labeled "Statement of Owner Equity". Taking information from his Income Statement, this section shows Fred how his net worth has changed from last year. Using modified-cost net worth figures, he can see how much his net worth has increased over the year ...

SLIDE 59:

and where the increase came from. In Fred's case, there were no gifts and inheritances or additions to paid in capital. His cost net worth grew solely because he reinvested his net income.

SLIDE 60:

Earlier in the program, we pointed out that market-value net worth includes the effects of inflation, while modified-cost net worth does not. In the summary section of the Statement of Owner Equity, Fred can separate the effects of inflation on his net worth over the year from the effects of his management ability.

SLIDE 61:

He does this by first calculating the changes in his market value and cost net worth from last year. (Pause - 2 beats).

SLIDE 62:

Then he subtracts the change in his cost net worth from the change in his market value net worth. This shows how much of the change in his net worth is due to changes in the value of his assets and liabilities; in other words, inflation. (Pause - music up - out on natural break.)

SLIDE 63:

Well, as you can see, the Balance Sheet can be very helpful in managing the financial end of a farm business. It's the place to start, because it describes the current financial position of the business in terms of assets, liabilities, and net worth. But what's the best way to go about developing a Balance Sheet? Many farmers have filled out the Balance Sheet, and based on their experience, there are five steps recommended as the best way to go.

SLIDE 64:

First of all, fill in the preliminary information at the top of the Balance Sheet - name and address, the date of the statement, and whether it's a Personal, Business, or Consolidated statement.

SLIDE 65:

The second step is to collect certain information on the Balance Sheet date. The Balance Sheet should reflect the financial position as of December 31st. That means certain information must be obtained on that date. Information like the market price for grain in storage and the exact amount of cash and supplies on hand.

SLIDE 66:

Third, when you're ready to sit down and prepare the Balance Sheet, gather together all the necessary records. These records include, for example, hedging accounts, unpaid bills, crop and livestock inventories, loan balances and payments, tax returns, and past Balance Sheets if there are any.

SLIDE 67:

The fourth step, then, is to fill out the supporting schedules. Some of these may have been started on December 31st. These schedules should now be finished <u>before</u> starting the Balance Sheet itself.

SLIDE 68:

These supporting schedules can make the job of completing the Balance Sheet much easier. They are like worksheets which summarize information about individual assets and liabilities. There are nine schedules all together.

SLIDE 69:

The first four deal with securities, supplies, personal vehicles, and breeding stock. (Pause - 1 beat)

SLIDE 70:

The next four schedules are for summarizing farm real estate, non-farm real estate, life insurance, and intermediate and long term liabilities.

(Pause - 1 beat).

SLIDE 71:

The last schedule, then, lists Fred's machinery, equipment, and trucks. It's easier to fill out all the schedules <u>first</u>, <u>before</u> starting the Balance Sheet itself.

SLIDE 72:

The fifth and final step is to complete the Balance Sheet, starting at the top and transferring the totals from the supporting schedules to the form as they are called for.

SLIDE 73: (Music up, then under)

By the time you've completed the Balance Sheet, you will have discovered several things. Most importantly, you'll have a better understanding of the farm business in <u>financial</u> terms. How assets compare with liabilities, what collateral is available to support a loan, and some idea of how much risk can be taken.

SLIDE 74:

Farmers will better understand how their lenders look at their businesses. And because the Balance Sheet explains things in familiar terms, the ability of lenders to recognize the needs of farmers, and to finance their operations will improve.

SLIDE 75:

A completed Balance Sheet allows farmers and lenders to speak the same language. This improvement in communication, along with all the new information about the farm business, will lead to the real payoff in preparing the Balance Sheet:

SLIDE 76:

Farmers, doing a better job managing their business and setting financial goals for the future. (Music up - 2 seconds)

SLIDE 77: Production Credit (6 seconds)

SLIDE 78: Artwork Credit (6 seconds)

SLIDE 79: Century communications credit (6 seconds)

SLIDE 80: Black (Music out)