



John P. Hewlett
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University of Wyoming
Agricultural & Applied Economics

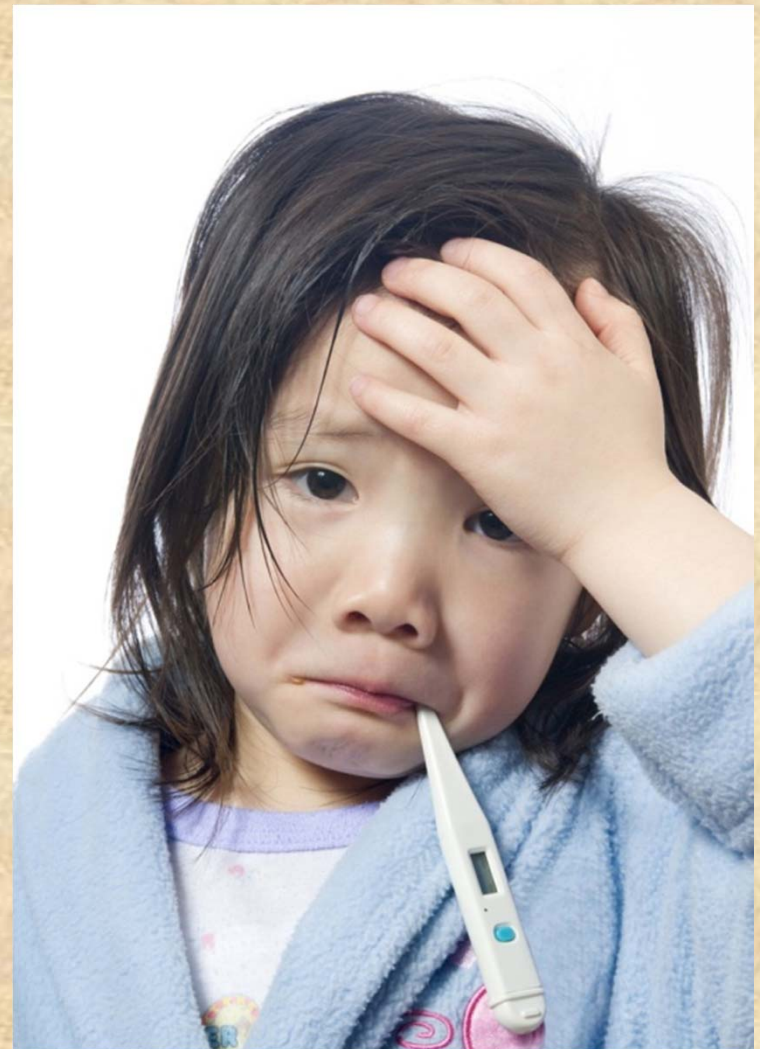
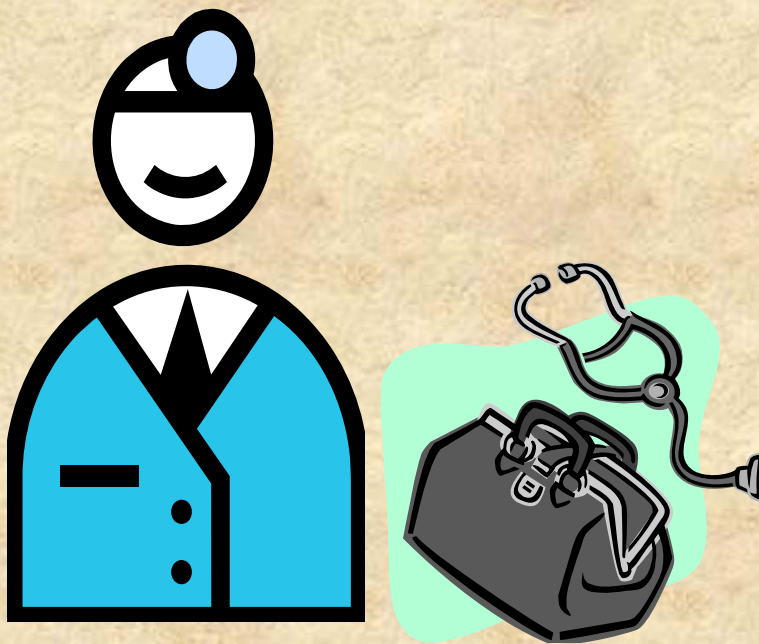
Agricultural
Financial Management -101

EVALUATING FARM/RANCH FINANCIAL HEALTH

RightRisk™



GOT FINANCIAL HEALTH?



SOURCES OF RISK

- ✗ Production- yield/quality variability
- ✗ Marketing- changes in price/external conditions
- ✗ Financial- variability in debt/equity capital and ability to meet cash demands
- ✗ Legal- responsibilities for contracts, statutory compliance, tort liability, and business structure
- ✗ Human- managing people and estate transfers



DETERMINING YOUR FINANCIAL HEALTH

- ✘ Historically, most producers are weak in knowledge and commitment to adequate financial analysis
- ✘ Often agricultural financial analysis is:
 - + Inconsistent
 - + Misguided
 - + Misleading
 - + Short Sighted



KEY PRODUCER ITEMS/CONCERNS

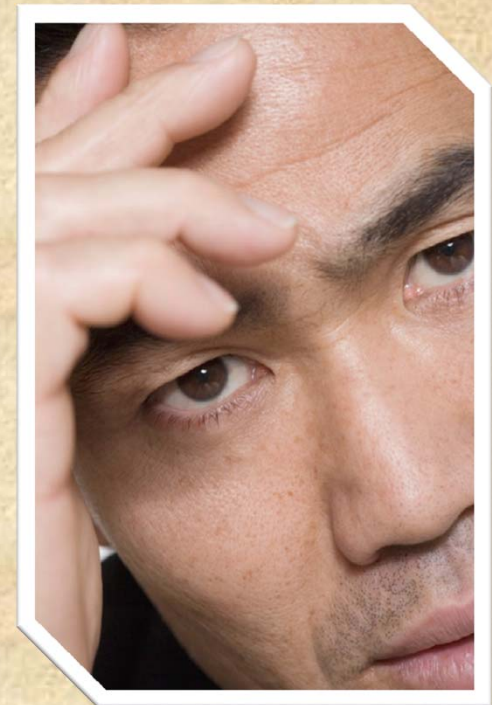
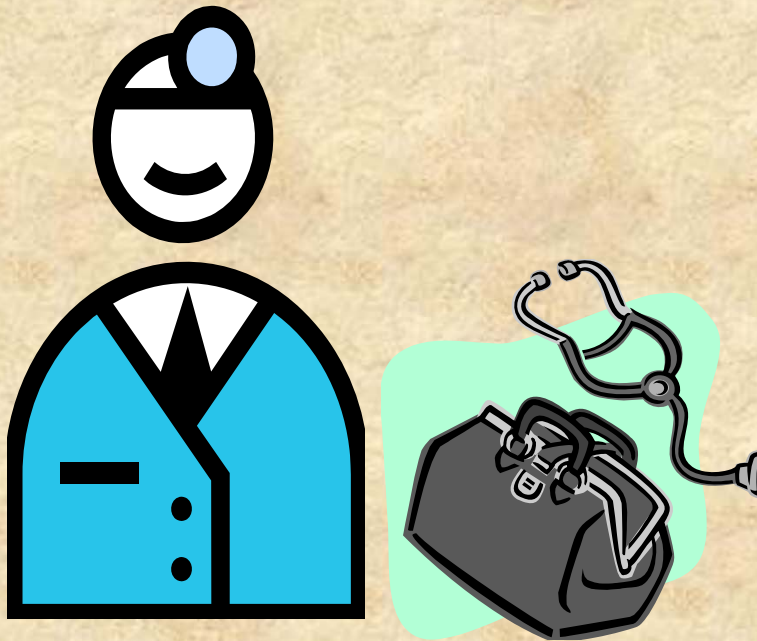
- ✗ Adequate funds for family living
 - + For all families that might be involved
- ✗ Alternative enterprises, enterprise mix
- ✗ Debt Load and Structure
- ✗ Expansion plans/capabilities
- ✗ Dependence on government payments
- ✗ Managing cost of production, financial info, marketing, labor (family)
- ✗ Tight profit margins – Simply Surviving

WHAT KEY FACTORS DETERMINE FINANCIAL HEALTH?

- ✗ Is it a positive Cash Flow
- ✗ A large Net Worth
- ✗ Paying no taxes to reduce cash outflows
- ✗ Lots of family labor (good hard work)
- ✗ Location
- ✗ Positive Net Income
- ✗ ?
- ✗ ?
- ✗ ?

GOT FINANCIAL HEALTH?

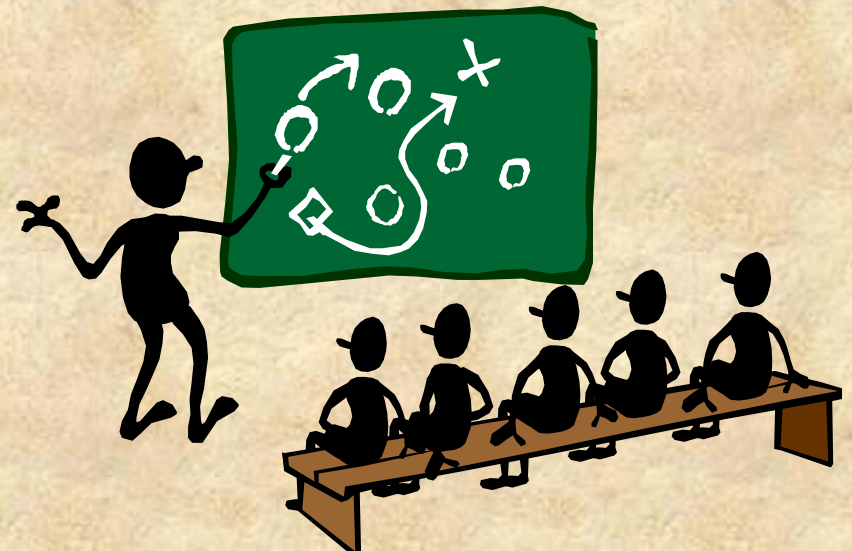
- ✗ Need to know Business Position
- ✗ Need to know Business Performance
- ✗ What Yard Stick(s) should be used



DETERMINING YOUR FINANCIAL HEALTH: WHAT?

✕ What is Financial Health?

- + Financial health refers to the well being of a business as measured by adequate financial analysis.
- + Financial Health can be evaluate in five areas:
 - ✕ Liquidity
 - ✕ Solvency
 - ✕ Profitability
 - ✕ Repayment Capacity
 - ✕ Financial Efficiency





**If you can't
measure it,
you can't
manage it!!**



Risk Navigator SRM



DETERMINING YOUR FINANCIAL HEALTH: WHY?

✕ Financial Business Performance Analysis is important because:

- + Our financial health determines the decisions we can make.
- + Often our personal financial well being depends on our agricultural business's financial health
- + Long run survivability depends largely on the long run profitability of our business

DETERMINING YOUR FINANCIAL HEALTH: HOW?

✗ PROFITABILITY

- ✗ It is critical to be or become profitable
- ✗ Positive net income is the only way to earn equity growth in a business

ACCOUNTING

Cash
Inflows/Outflow



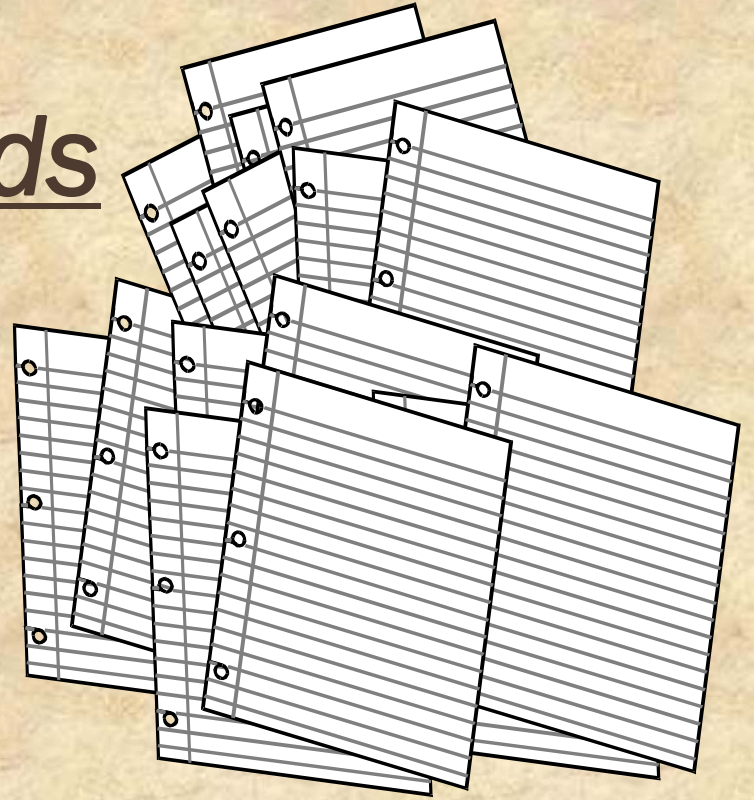
Other Resource
Inflow/Outflow

- Land
- Labor
- Capital
- Time

Profit

DETERMINING YOUR FINANCIAL HEALTH: HOW?

× Financial Records



COMPONENTS OF A COMPLETE RECORD SYSTEM

1. Cash transactions
2. Physical inventories
3. Financial inventories
4. Financial statements
5. Production records
6. Labor and machinery records
7. Family accounts and non-farm business records
8. Records summaries

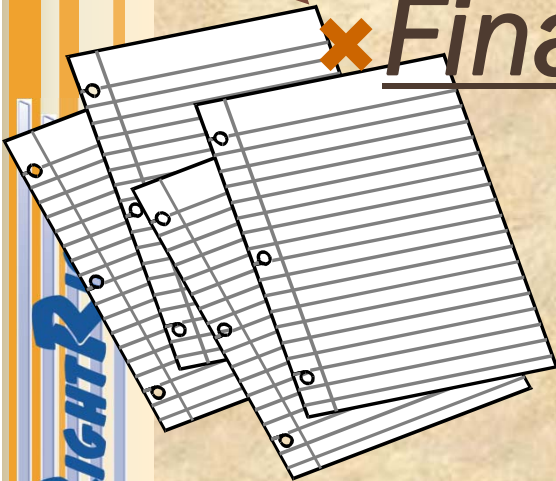


DETERMINING YOUR FINANCIAL HEALTH: HOW?

✗ Financial Records



✗ Financial Statements



COMPLETE FINANCIALS REQUIRED

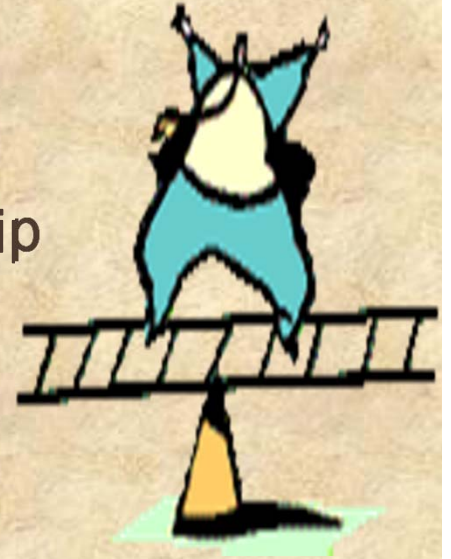
- ✗ Beginning and Ending Balance Sheets
- ✗ Cash Flow Statement
 - + (Statement of Cash Flows)
- ✗ Accrual Adjusted Income Statement
- ✗ Statement of Changes in Owner Equity



FINANCIAL STATEMENTS

✖ Balance Sheets

- + Describe things of value and their ownership
- + Show values at a point in time (inventory), thus can be used to show changes over longer periods of time
- + Shows: Assets = Liabilities + Owner Equity



Assets

Ownership

- Outside Interests
- Internal Interests

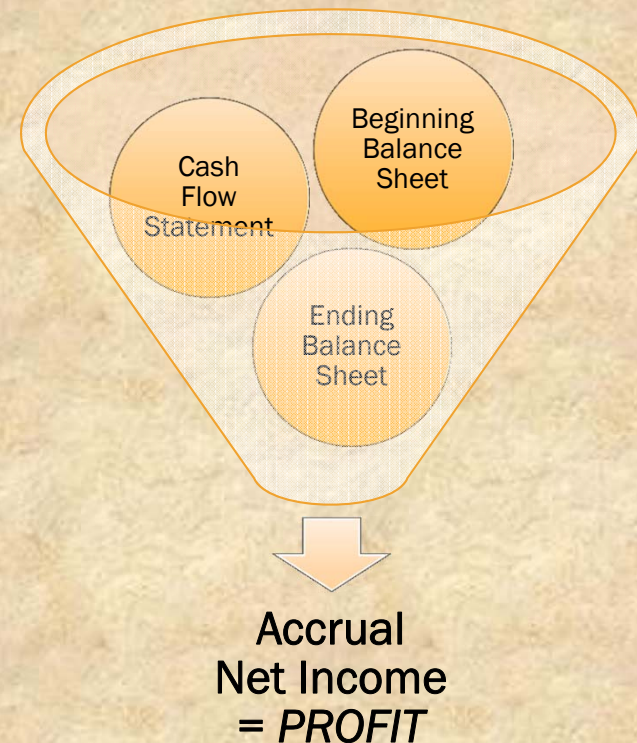
✖ Cash Flow Statement

- [illegible]

FINANCIAL STATEMENTS

× Accrual Income Statement

- + Shows all changes in cash for the period
- + Shows all changes in non-cash accounts over the period
 - × *Revenue* items like increases in inventories, etc.
 - × *Expense* items like depreciation, accrued interest, accrued tax liabilities, etc.
- + Shows accrual net income or profit for period



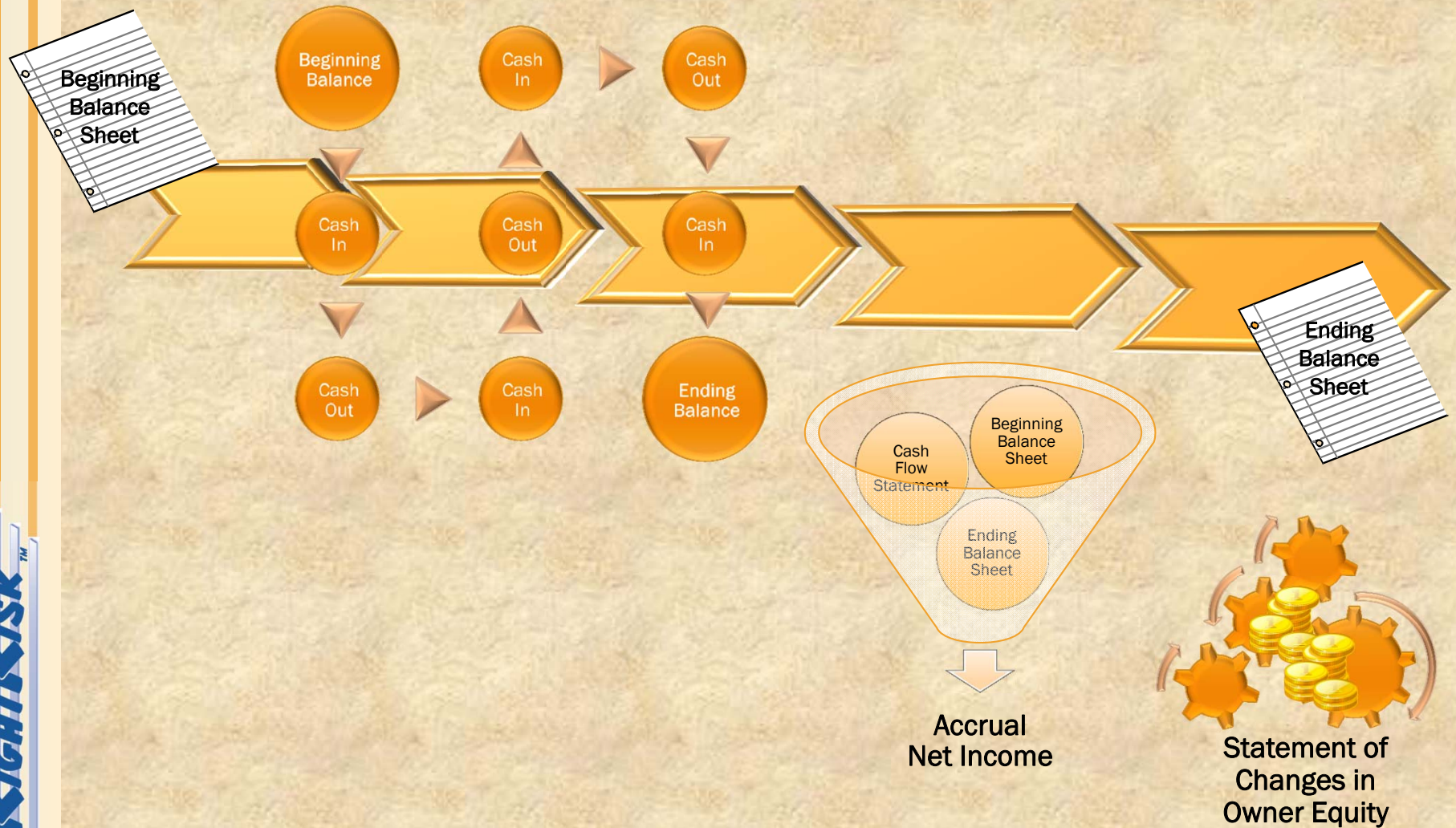
FINANCIAL STATEMENTS

✖ Statement of Changes in Owner Equity

- + Shows impacts of changes described by the income statement on *equity position*
- + Also documents any withdrawals or contributions of equity over the period



FINANCIAL STATEMENTS



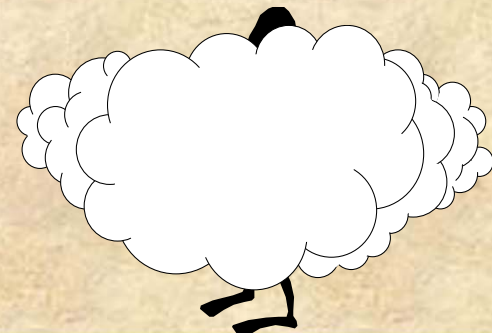
DETERMINING YOUR FINANCIAL HEALTH: HOW?

- ✖ Financial statements allow financial performance to be adequately evaluated if they are:
 - + Reconciled
 - + Complete
 - + Shared



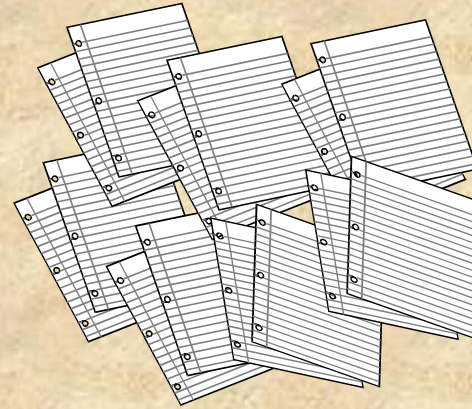
TERMINOLOGY CAUSES US PROBLEMS

- ✗ Expense versus Expenditure
- ✗ All cash inflows are not income
 - + Loan proceeds from lenders
- ✗ All cash outflows are not expenses
 - + Principal payments to lenders
- ✗ Non-cash expenses
 - + Depreciation, accrual adjustments
- ✗ Non-cash income
 - + Accrual adjustments

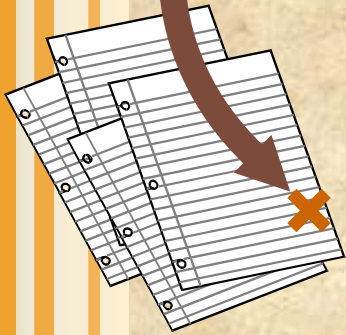


DETERMINING YOUR FINANCIAL HEALTH: HOW?

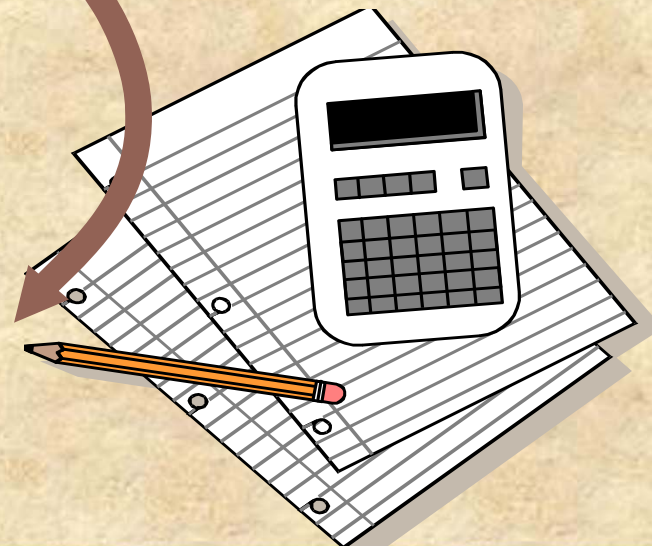
✗ Financial Records



✗ Financial Statements



✗ Financial Analysis



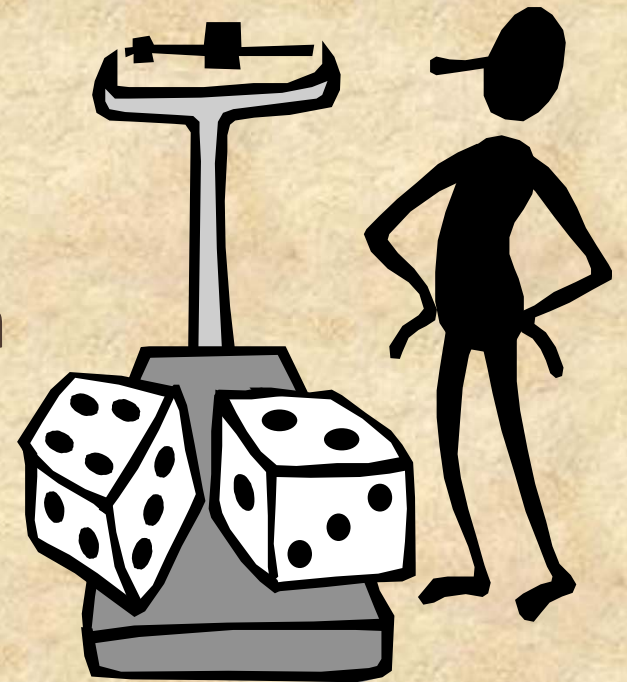
FINANCIAL ANALYSIS

✖ Liquidity

- + Measures the ability of the operation to meet its short-term debt obligations
- + Looking at 12 months or less

✖ Solvency

- + Measures the ability of the operation to meet its long-term debt obligations
- + Looking at over one year



FINANCIAL ANALYSIS

- ✗ Profitability

- + Measures the ability of the operation to generate returns over its expenses

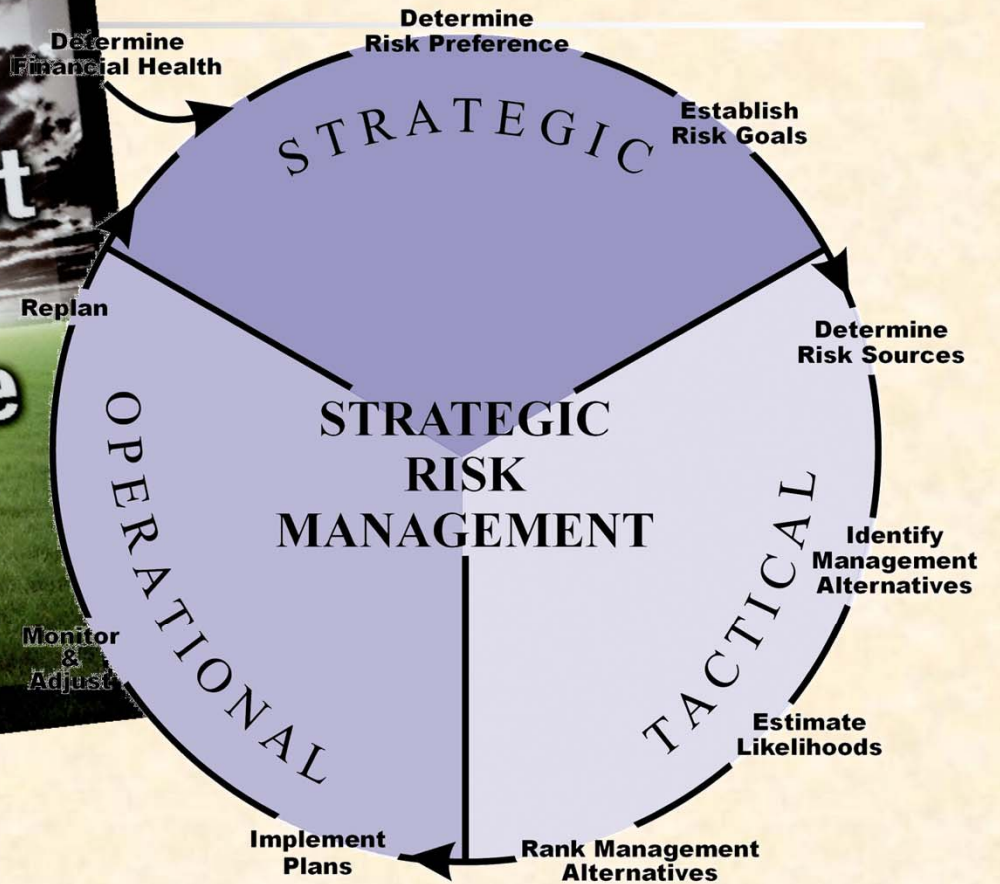
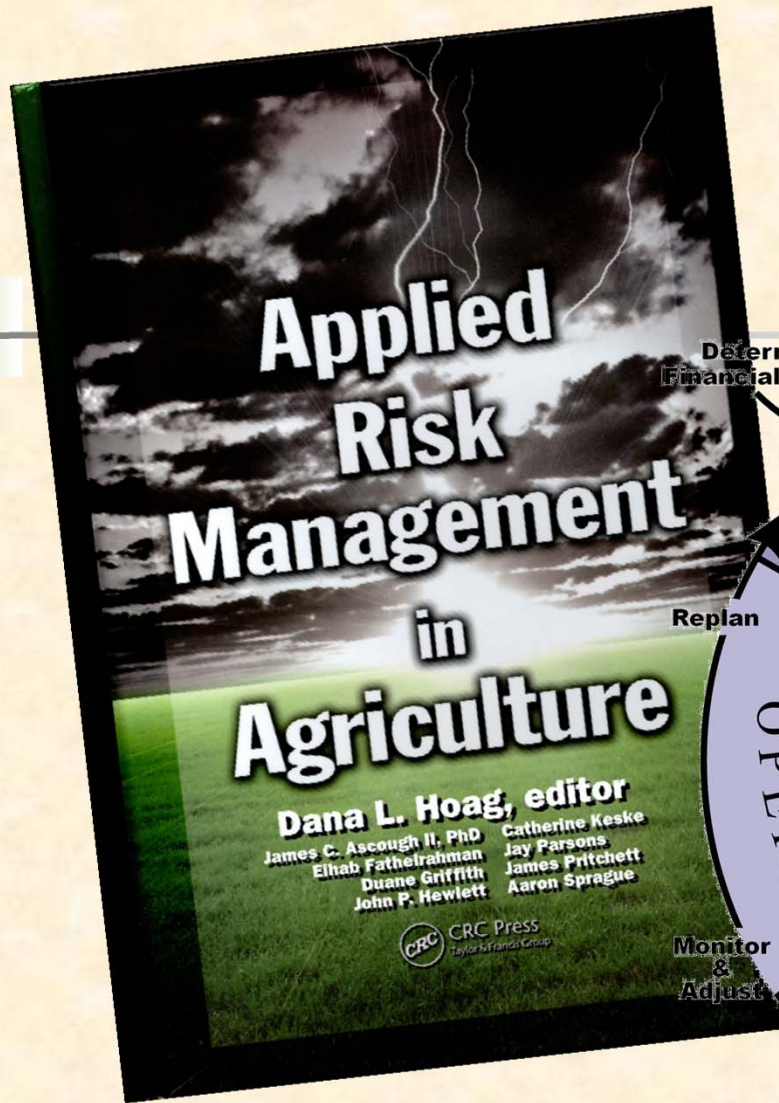
- ✗ Efficiency

- + Measures how efficiently the operation has used its resource base to generate revenue

- ✗ Repayment Capacity

- + Measures the capacity of the operation to repay debt obligations





Risk Navigator SRM



Insuring Success for Wyoming Agriculture 2006
Feasibility of Alternative Rural Enterprises Course

A LASTING LEGACY

Insuring Success for Wyoming Agriculture 2008
Insurance and Risk Management Course

Getting on Track: Better Management Through Basic Ag Records

Applied Risk Management in Agriculture
Dana L. Hoag, editor
James C. Aaseburgh II, PhD
Elisab Fattisshahman
Duane Griffiths
John P. Hewitt
Catherine Koske
Joy Parsons
James Pritchett
Karen Sprague

RightRisk

AG SURVIVOR
Scenario Selection

Risk Navigator
STRATEGIC RISK MANAGEMENT

http://RightRisk.org
Risk Navigator SRM

Introduction

Strategic

Tactical

Ag Risks

Do It Yourself

Risk

Adobe Flash Player 9

File View Control Help

Introduction

Enter Data

Financial Statements

Ratios

Credit Scoring

Family Living, Revenues, Expenses

Balance Sheet	Assets		Liabilities	
	Beginning	Ending	Beginning	Ending
Cash on Hand	25,000	57,831	Accounts Payable (Exp)	0
Crops Held for Feed (Exp)	0	0	Accrued Interest (Exp)	12,540
Crops Held for Sale (Inc)	200,000	200,000	Current Principal	11,889
Market Livestock (Inc)	0	0	Other Current Liability (Exp)	10,000
Other Current Assets (Inc)	15,000	15,000	Short Term Notes (Exp)	0
Invest Growing Crops (Exp)	0	0	Def. Tax on Current Assets	0
Supp. & Prepaid Exp. (Exp)	10,000	10,000	Operating Loan Carryover	0
Total Current Assets	250,000	282,831	Total Current Liab.	34,448
Non-Current Assets			Non-Current Liabilities	
Mach. & Equipment	325,000	292,500	Prin. on T.D. & C.L.	255,398
Breeding Livestock	0	0	Def. Tax on Long Term Assets	0
Real Estate (Land, Bldgs, Impr)	1,040,000	1,038,000	Total Business Liab.	289,847
Total Business Assets	1,615,000	1,613,331	Business Net Worth	1,325,153
Change in Equity From Beginning to End of Year				10,890

Income Statement - Accrual Adj.		Income
Cash Income (Net of cull lvstk sales)		\$609,453
Non-Cash Income Adjustments		0
Non-Cash Income (Raised Brd Lvstk)		0
Capital Gain/Loss on Breeding Lvstk (Net)		0
Gross Revenue		\$609,453
Cash Expense (Excluding Interest)		444,913
Non-Cash Feed Inventory Adjustment		0
Other Non-Cash Non-Interest Expense		0
Depreciation (Land, Bldgs, Equip.)		34,500
Total Operating Expense		479,413
Cash Int. Exp. - T.D. & C.L.		12,540
Cash Int. Exp. - Operating		7,281
Non-Cash Interest Expense		(651)
		\$498,563

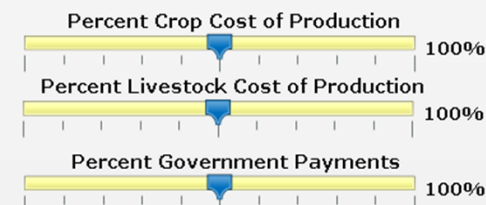
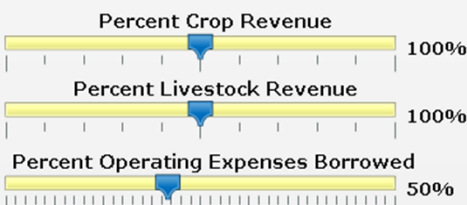
HANDOUT

Operating Loan Proceeds	50%	207,457	Breeding Livestock Asset Purchases	0
Loan Proceeds Capital Assets		0	Mach & Equip & Real Estate Purchase	0
Non-Business Inflows/Revenue			Owner withdrawals	100,000
Other Nonfarm Inflows		0	Cash Taxes Paid (Income & SS)	0
Other Nonfarm Inflows		0	Other Cash Outflows (Not Expenses)	0
Total Cash Inflows		\$816,910	Subtotal	\$576,622
* T.D. = Term Debt. C.L. = Capital Lease			Operating Loan Prin. Payments	\$207,457
			Total Cash Outflows	\$784,079
			Annual Net Cash Flow (never < zero)	57,831

Statement of Owner Equity		
Beginning Net Worth (Cost/Mrkt)		1,325,153
Net Income	+	110,890
Non-Business Cash Inflows	+	0
Owner Withdrawals (Cash)	-	100,000
Asset Valuation Change/Cont./Distrib.	+/-	\$0
Calculated Ending Net Worth	=	1,336,043
Reported Ending Net Worth (Cost/Mrkt)		1,336,043
Discrepancy		(\$0)

Mouse Over for Help

Save, Load, Delete



Reset

Print

Cash Income Toggle Off/On

Deferred Taxes Off/On

Income Tax Off/On



Topics Examined With RDFinancial

- Owner Withdrawals
- Non-business income
- Government Payments
- Capital asset purchase
- Cost of Production
- Asset revaluation
- Debt Load (asset and liability structure)
- Risk Protection Tools (Insurance)
- Non-cash expense (not depreciation)
- Non-cash income
- Contributed capital
- Distributed capital



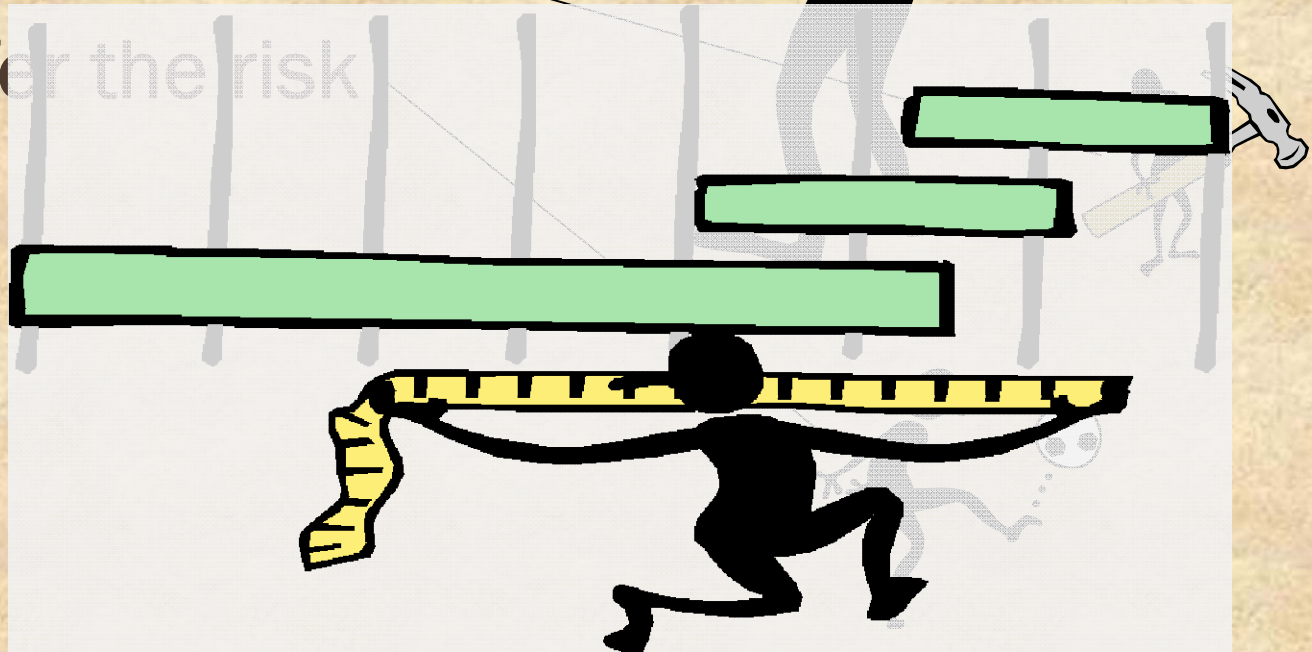
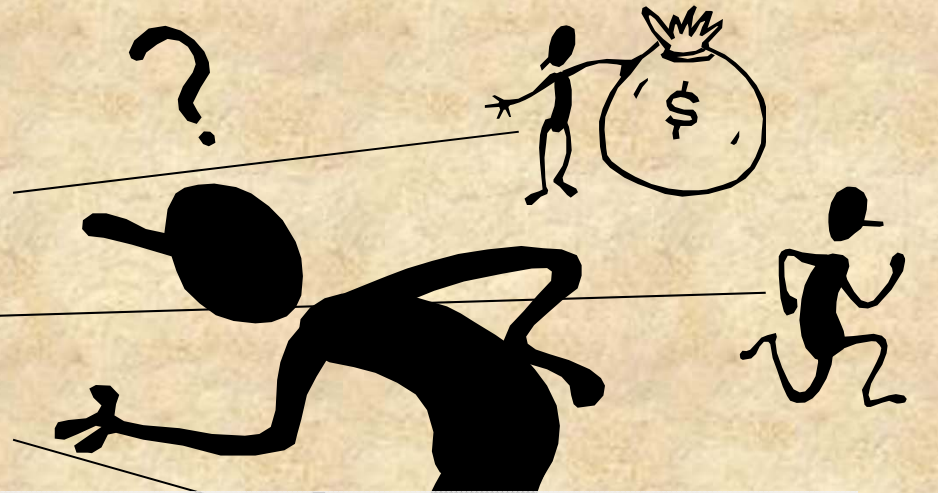
SOURCES OF RISK

- ✗ Production- yield/quality variability
- ✗ Marketing- changes in price/external conditions
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- ✗ Legal- responsibilities for contracts, statutory compliance, tort liability, and business structure
- ✗ Human- managing people and estate transfers



IDENTIFY MANAGEMENT ALTERNATIVES

- ✖ Assume the risk
- ✖ Avoid the risk
- ✖ Reduce the risk
- ✖ Transfer the risk



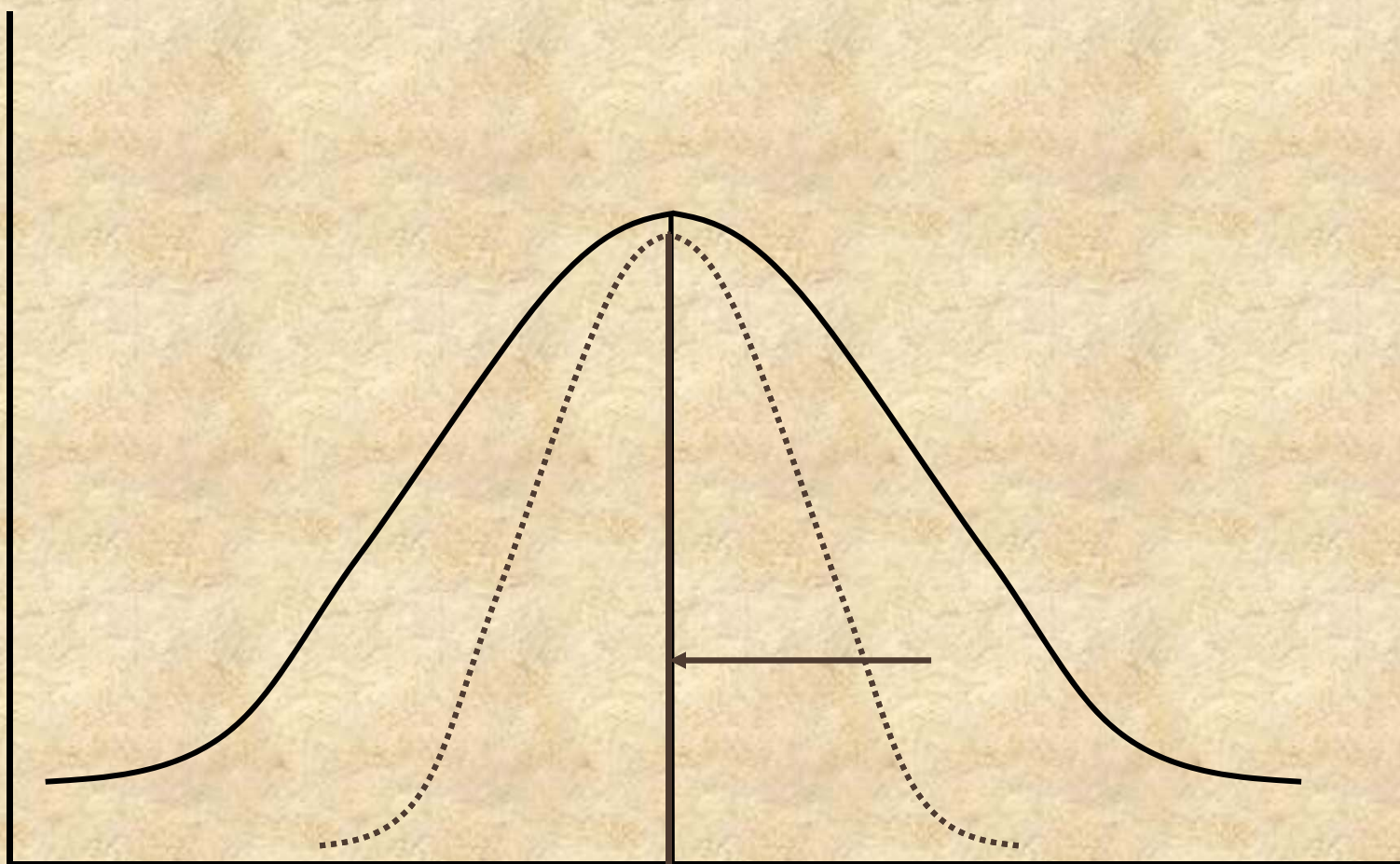
CURRENT FEDERAL INSURANCE OPTIONS

County	AGR-L	2009 Wyoming Crop Insurance	Insurance Plans Available in Wyoming				P	der	Fed Cattle	LRP Swine	LRP Lamb	Vegetation Index - Apiculture	
			Insurable Crops	Insured Acres	Total Acres	Percent Insured							
Albany	R	2009 Wyoming Crop Insurance	Alfalfa Seed (APH)	7,844	10,500	75%	)		D	D	D	P,D	
Big Horn	R		Barley (APH)	40,984	80,000	51%	)		D	D	D	P,D	
Campbell	R		Corn (APH, CRC, GRIP, GRP)	55,436	90,000	62%	)		D	D	D	P,D	
Carbon	R		Dry Beans (APH)	31,429	37,500	84%	)		D	D	D	P,D	
Converse	R		Forage Production (APH)	150,558	690,000	22%	)		D	D	D	P,D	
Crook	R		Forage Seeding (Dollar)	4,576	35,000	13%	)		D	D	D	P,D	
Fremont	R		Millet (APH)	4,538	12,400	37%	)		D	D	D	P,D	
			Oats (APH)	6,801	40,000	17%	)		D	D	D	P,D	
			Potatoes (APH)	547	558	98%	)		D	D	D	P,D	
			Sugar Beets (APH)	24,584	31,000	79%	)		D	D	D	P,D	
			Sunflowers (APH, RA)	6,505	7,720	84%	)		D	D	D	P,D	
			Wheat (APH, CRC, GRIP, GRP)	131,159	155,000	85%	)		D	D	D	P,D	
			Sub-Totals:	464,741	1,189,678	39%	)		D	D	D	P,D	
			Prevented Planting	2229			)		D	D	D	P,D	
			Grand -Total:	466,970			)		D	D	D	P,D	
HANDOUT													
Niobrara	R	Billings Regional Office Contact: Doug Hagel, Director Address: 3490 Gabel Road Suite 100 Billings, MT 59102 Phone: (408) 657-6447 Fax: (408) 657-6573 E-Mail: rsomt@rma.usda.gov	Lamb (LRP)		1,478,293		)		D	D	D	P,D	
Park	R		Swine (LRP, LGM)		0		)		D	D	D	P,D	
Platte	R		Adjusted Gross Revenue - LITE (AGR-LITE)		466,539		)		D	D	D	P,D	
Sheridan	R		Apiculture (Vegetation Index)		0		)		D	D	D	P,D	
Sublette	R		Nursery (Dollar)		254,541		)		D	D	D	P,D	
Sweetwater	R		Pasture, Rangeland, Forage (Vegetation Index)		30,264,639		)		D	D	D	P,D	
Teton	R		Total		33,373,834		)		D	D	D	P,D	
Uinta	R		Crop Pilot Programs				)		D	D	D	P,D	
Washakie	R		Program	County Availability			)		D	D	D	P,D	
Weston	R		Alfalfa Seed (APH)	Big Horn, Park Counties			)		D	D	D	P,D	
		Northern Regional Compliance Office Contact: Mark Huber, Director Address: Suite 200 3400 Federal Drive Egan, MN 55122 Phone: (612) 725-3730 Fax: (612) 725-3735 E-Mail: cfofn@rma.usda.gov	Apiculture (Vegetation Index)	All Counties			)		D	D	D	P,D	
			Pasture, Rangeland & Forage (Vegetation Index)	All Counties			)		D	D	D	P,D	
							)		D	D	D	P,D	
							)		D	D	D	P,D	
							)		D	D	D	P,D	
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							)		D	D	D	P,D	
							)		D	D	D	P,D	
							)		D	D	D	P,D	
						)		D	D	D	P,D		
			Data as of January 11th, 2010										
			APH - Actual Production History CRC - Crop Revenue Coverage GRP - Group Risk Plan GRIP - Group Risk Income Plan IP - Income Protection LGM - Livestock Gross Margin LRP - Livestock Risk Protection RA - Revenue Assurance										

CROP INSURANCE

- Kinds of risk addressed by crop insurance:
 - + Yield risk
 - + Price risk
 - + Revenue risk (yield and price)
- Benefit of crop insurance in the management of risk;

TRANSFER



CROP INSURANCE

- Use of crop insurance can affect other risk management decisions, such as the use of marketing and financial tools;
- Must make informed decisions on crop insurance prior to the sales closing date deadline
- Recordkeeping requirements for crop insurance.

Introduction

Strategic

Tactical

Operational

Ag Risks

Do It Yourself

Risk Navigator SRM

Parting Comment

Do not risk the future of your operation (family and business) with frustration over preparing detailed financial statements.

Just do it!



QUESTIONS?

RIGHT RISKTM

RMA