

The Cost of Borrowing

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FARM FINANCIAL MANAGEMENT

"Its likely not why you entered production agriculture, but it will determine when and how you exit!"



This Section Will Help You



- Understand the basics of credit.
- Develop questions to ask when obtaining new credit or refinancing existing credit.
- Estimate the costs of borrowing.
- Goal: Credit efficiency!



What Are Your Borrowing Goals?



- Debt reduction
 - Pay down debt quickly
 - Debt servicing ability vs. other commitments
- Operation expansion or improvement
 - Grow the business over time
 - Maintain financial stability



Overview

- Five C's of credit
- Credit reports and scores
- Interest rates and fees
- Term, amortization, and compounding periods
- Repayment
- Loan types
- Refinancing and loan structure



"You should not be afraid of debt, it is a tool that, if managed correctly, will help obtain your goals and improve the financial performance of your business."



5 C's of Credit

- Capacity
 - Ability to repay the loan
 - Ex) Debt-to-income ratio or debt service capacity
- Capital
 - Down payment or equity
 - Ex) Debt-to-asset; debt-to-equity
- Collateral
 - Assets pledged as an alternative source of repayment
 - Ex) Loan-to-value; life insurance; crop insurance
- Character
 - Repayment history / relationship / credit score
- Conditions
 - Use of loan proceeds, state of the agricultural economy, industry trends
 - Repayment terms, clauses, reporting requirements







Taxes and Credit Scores



- Two things you don't want to mess up!
 - Credit score ie. FICO scores range from 300–850
 - Make sure your spouse/children establish credit scores
 - Taxes (IRS problems can be a nightmare)





All credit reports contain basically the same types of information:



- 1. <u>Personal Information</u> Your name, address, Social Security number, date of birth and employment information. This information is not used in calculating your FICO® Score; it is only used to identify you. Updates to this information come from information you supply to your lenders.
- 2. <u>Your Credit Accounts</u> Most lenders report information about each account you have established with them. They report the type of account (bank credit card, auto loan, mortgage, etc.), the date you opened the account, your credit limit or loan amount, the account balance, and your payment history.
- **3.** <u>**Requests for Credit**</u> When you apply for a loan, you authorize your lender to ask for a copy of your credit report. This is how inquiries appear on your report. Your credit report lists inquiries that lenders have made for your credit report within the last two years.
- 4. <u>Public Record and Collection Items</u> Consumer reporting agencies also collect information on overdue debt from collection agencies and public record information such as bankruptcies, foreclosures, tax liens, garnishment, legal suits and judgments from state and county courthouses. In general, these items remain on your credit report for 7 to 10 years.



What goes into your credit score?







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Interest Rates and Fees



- Federal funds rate / prime rate
- Fixed
- Variable
- Reoccurring and one-time fees
- Annual percentage rate (APR)



Prime Rate & Federal Funds Rate



• The **federal funds overnight rate** serves as the basis for the prime rate, and prime serves as the starting point for most other interest rates.

• The <u>prime rate</u> is the interest rate that commercial banks charge their "most credit-worthy" corporate customers.



Federal Funds Rate







Bank Prime Loan Rate









Variable Interest Rate



- Interest rate changes with movements in a benchmark interest rate (ex. prime loan rate).
 - Example.
 - Loan note at: Prime + 2.0 (prime rate is 3.25%).
 - Initial rate is 5.25%.
 - Prime rate increases 0.5% new interest rate is 5.75%, effective immediately.
 - Monthly/annual payment is adjusted up or down to reflect the higher or lower interest rate (usually term or amortization schedule will not automatically be adjusted).
- Variable interest rate products can be beneficial if you expect interest rates to decline.
 - Seems unlikely right now.



Fixed Interest Rate



- Interest rate does not change for the term of the loan.
- Fixed interest rates can be used by credit cards, operating, machinery, livestock, buildings, or land loans.
- Fixed interest rates are beneficial if you expect interest rates are going to increase in the future.
 - A valid assumption on long term debt in the current environment.







- Recurring Fees happens when a lender automatically charges a borrower for specified products or services on a prearranged schedule.
 - Recurring fees requires the lender to get the borrower's *initial* permission.
- One-time Fees is a cost of borrowing that occurs at a specified time (usually loan origination) and is not repeated over the duration of the loan agreement.
 - Examples: document preparation fees, appraisal fees, loan origination fees.
- Fees must be disclosed to the borrower!



Annual Percentage Rate



- An annual percentage rate (APR) is the annual rate charged for borrowing.
- APR is expressed as a percentage that represents the actual yearly cost of funds over the term of a loan.
 - This includes any fees or additional costs associated with the transaction.
- As loans or credit agreements can vary in terms of interest-rate structure, transaction fees, late penalties and other factors, a standardized computation such as the APR provides borrowers with a number they can easily compare to rates charged by other lenders (calculate APR yourself).



Annual Percentage Rate



• Formula and Calculation

$$APR = \frac{\frac{(Fees+Interest)}{Principle}}{n} x \ 365 \ x \ 100$$

- Where:
 - Fees = total estimated fees paid over the life of the loan
 - Interest = total interest paid over the life of the loan
 - Principle = the amount borrowed
 - n = number of days in loan term
- Obtain a fee disclosure and amortization schedule.



Annual Percentage Rate: Example



- Fees = \$1,500
- Interest = \$30,000
- Loan amount = \$100,000
- Term = 5 years (1,825 days)

• \$1,500+\$30,000=\$31,500

\$31,500 / \$100,000
=0.315

0.315 / 1,825 x 365 x 100
= 6.3%



Term & Amortization



- Term = The length of time you are committed to an interest rate, lender, and conditions set out by the lender.
- Amortization = The length of time if takes you to pay off your entire loan.
- Term and amortization can be the same duration or term can be less than amortization.
- Example: 36/60 = 36 month term and 60 month amortization.



Term & Amortization



- A shorter term can provide risk/reward based on current interest rate offerings and expectations.
- Amortization should never exceed the useful life of the asset.
- Longer amortization schedules reduce annual or monthly payments (reduced cash flow requirements), at the expense of greater interest paid.
- Short amortization schedules increase annual or monthly payments (greater cash flow requirements), saving interest expense.
- Allow for sufficient amortization to avoid cash flow stress when possible.
- On term debt more interest is typically paid on the front end of the loan.
 - This can be important when considering refinancing!





Amortization Schedule (\$200,000; 4.5%; 15 vs. 10 year Amortization)





\$82.067.53

\$67 094 42

\$51,433,44

\$35.053.00

\$17 920 04

\$0.00

Annual Amortization Schedule

Annual Schedule

1

3 4

5

6 7

8

9 10

11

12

13

14

15

2

			Lotal Into	root = 0.75.200	
•	Monthly Schedule	Total interest – \$75,55			
	Beginning Balance	Interest	Principal	Ending Balance	
	\$200,000.00	\$8,804.52	\$9,555.36	\$190,444.68	
	\$190,444.68	\$8,365.57	\$9,994.31	\$180,450.39	
	\$180,450.39	\$7,906.41	\$10,453.47	\$169,996.97	
	\$169,996.97	\$7,426.19	\$10,933.69	\$159,063.31	
	\$159,063.31	\$6,923.91	\$11,435.97	\$147,627.37	
	\$147,627.37	\$6,398.52	\$11,961.36	\$135,666.06	
	\$135,666.06	\$5,849.04	\$12,510.84	\$123,155.25	
	\$123,155.25	\$5,274.29	\$13,085.59	\$110,069.70	
	\$110,069.70	\$4,673.14	\$13,686.74	\$96,383.00	

\$14.315.50

\$14 973 16

\$15.661.01

\$16 380 46

\$17 132 99

\$17,920.08

\$4.044.38

\$3 386 72

\$2.698.87

\$1,979.42

\$1,226.89

\$439.80

Payment \$18,360 Total Interest = \$75,398



Annual Amortization Schedule

Annual Schedule Monthly Schedule

Payment \$24,873 Total Interest = \$48,732

Beginning Balance Interest Principal Ending Balance 1 \$200,000.00 \$8,668.48 \$16,204.76 \$183,795.27 2 \$183,795.27 \$7,924.05 \$16,949.19 \$166,846.10 3 \$166,846.10 \$7,145.41 \$17,727.83 \$149,118.28 4 \$149,118.28 \$6,330.99 \$18,542.25 \$130,576.05 5 \$130,576.05 \$5,479.14 \$19,394.10 \$111,182.00 6 \$111,182.00 \$4,588.18 \$20,285.06 \$90,896.99 7 \$90,896.99 \$3,656.33 \$21,216.91 \$69,680.08 8 \$69,680.08 \$2,681.62 \$22,191.62 \$47,488.48 9 \$47,488.48 \$1,662.14 \$23,211.10 \$24,277.40 10 \$24,277.40 \$595.81 \$24,277.43 \$0.00					
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\$96.383.00

\$82,067,53

\$67.094.42

\$51,433,44

\$35,053,00

\$17,920.04





Compounding Period



- A compounding period is the span of time between when interest was last compounded and when it will be compounded again.
- Annual compounding means that a full year will pass before interest is compounded again. When interest compounding occurs, interest is added to the principal (or payment) on a loan.
- A lender may engage in more aggressive monthly or quarterly compounding, which increases the amount to be repaid by the borrower.



Compounding Example

- The interest on a \$200,000 mortgage compounded monthly or annually.
- If the annual interest rate on that mortgage is 6%, the periodic interest rate used to calculate the interest assessed in any single month is 0.06 divided by 12, working out to 0.005 or 0.5%.
- If the mortgage is paid annually, but compound monthly you are paying interest on interest.

Interest Rate	= 6% (0.5%	per month)	
	<u>Comp</u>	ounded	
Compounding			
Periods	Monthly	Annually	
Initial Balance	200,000	200,000	_
1	201,000	212,000	
2	202,005		
3	203,015		
4	204,030		
5	205,050		
6	206,076		
7	207,106		
8	208,141		
9	209,182		
10	210,228		
11	211,279		
12	212,336		
Payment	36,000	36,000	_
Ending			_
Balance	176,336	176,000	



Repayment



- Repayment period (weekly, monthly, semi-annually, or annually) should coincide with the frequency of cash flow from your operation.
 - In some cases this may coincide with income generated from the financed asset.
- Do you have multiple sources of repayment?
- Payment timing should be modified to occur after income is received (avoid payment residency time in an operating loan or other short term debt instrument).
 - 3-5 days after a milk check is received.
 - November, December, or January for crops (consider tax implications in your loan repayment strategy).



Fixed Principle + Interest Payments



- Example: \$200,000 at 4.5%; 5 year.
 - Y1 (\$160,000) = \$40,000 + \$9,000 = \$49,000.
 - Y2 (\$120,000) = \$40,000 + \$7,200 = \$47,200.
 - Y3 (\$80,000) = \$40,000 + \$5,400 = \$45,400.
 - Y4 (\$40,000) = \$40,000 + \$3,600 = \$43,600.
 - Y5 (\$0) = \$40,000 + \$1,800 = \$41,800.
- Alternative: Payment (does not change annually) = \$44,743 each year.



Prepayment



• Determine if prepayment of the loan can occur without penalty (ie prepayment fee).

- Maintain payment flexibility if possible.
 - Add years on amortization to lower the annual payment, rather than stress cash flow if prepayment without penalty is available.



Types of Farm Credit



- Revolving credit
 - Credit cards, operating loans, supplier lines of credit etc.
- Intermediate loans
 - Machinery and livestock
 - Dealership financing
- Long-term loans
 - Buildings and farm infrastructure
 - Land / mortgages



Credit Cards



- Every farm should have one.....if it is used correctly.
 - Appropriate limit will vary by industry and operation ~ annual farm expenses / 12 months (can depend on expense timing)
 - Reward points, cash back/dividend
 - Fees (annual or maintenance fee)
 - Interest rate (if you are using a credit card correctly this becomes irrelevant). Average interest rate on a credit card is 17.3%!
- Pay **full balance** monthly, on time.
- Be aware of purchases that add to the price of the product or service if a credit card is used.



Credit Cards



- Is your credit card a fixed or variable and what is the APR?
- Can be either fixed or variable
 - For example,
 - Variable the bank/credit card provider charges a 15% margin and the prime rate is 5%, the borrower pays a 20% interest rate.
 - Fixed bank charges a flat interest rate. ie. 18.5%
- APR if you pay your balance monthly on time can be zero (for no fee cards).



Credit Cards

- Make sure you understand how your credit card fees and interest are calculated.
 - For example, cash advances typically immediately start accruing interest purchases do not.
 - <u>Read the fine</u> <u>print!</u>

New Balance Minimum Payme	nt Due	\$2,683.32 \$53.66	Hilton Honors Points Earned this Period 11,505 For more details about Rewards, please visit americanexpress.com/rewardsinfo		
Payment Due Date02/05/20 ‡			Account Summary		
[‡] Late Payment Warni the Payment Due Date \$39.00 and your APRs	ng: If we do not receive your Mi e of 02/05/20, you may have to may be increased to the Penalt	Previous Balance Payments/Credits New Charges Fees Interest Charged	\$4,400.59 -\$4,400.59 +\$2,683.32 +\$0.00 +\$0.00		
Minimum Payment Warnin /ou will pay more in interest example:	g: If you make only the minim and it will take you longer to p	New Balance Minimum Payment Due	\$2,683.32 \$53.66		
f you make no additional harges and each month you bay	You will pay off the balance shown on this statement in about	And you will pay an estimated total of	Credit Limit Available Credit Cash Advance Limit Available Cash	\$21,100.00 \$18,416.68 \$3,700.00 \$3,700.00	
Only the Minimum Payment Due	10 years	\$5,671	Days in Billing Period: 30		
\$100	3 years	\$3,608 (Savings = \$2,063)	Customer Care		





Fees

Credit Cards (musts)

Pay NO interest

- No cash advances
- Minimize fees subject to rewards or dividends.

Total Fees for this Period Interest Charged

About Trailing Interest

Total Interest Charged for this Period

You may see interest on your next statement even if you pay the new balance in full and on time and make no new charges. This is called "trailing interest." Trailing interest is the interest charged when, for example, you didn't pay your previous balance in full. When that happens we charge interest from the first day of the billing period until we receive your payment in full. You can avoid paying interest on purchases by paying your balance in full and on time each month. Please see the "When we charge interest" sub-section in your Cardmember Agreement for details.

2019 Fees and Interest Totals Year-to-Date

	Amount
Total Fees in 2019	\$95.00
Total Interest in 2019	\$0.00

Interest Charge Calculation

Your Annual Percentage Rate (APR) is the annual interest rate on your account					
	Transactio	ons Dated	Annual	Balance	Interest
	From	То	Rate	Interest Rate	Charge
Purchases	01/12/2019		20.24% (v)	\$0.00	\$0.00
Cash Advances	01/12/2019		26.74% (v)	\$0.00	\$0.00
Total					\$0.00
(v) Variable Rate					

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Amount \$0.00

Amount

\$0.00

Operating Loans



- Should revolve at least annually and are typically renewed on an annual basis.
 - Fee disclosures
 - Loan administration fee
 - Annual review or maintenance fee
 - Document preparation fee
 - Security assignment of crops, livestock, cash instruments, account receivable, machinery, or land and buildings.
 - The security pledged, farm's financial situation, and ability to repay should be reflected in the interest rate and fees negotiated with the lender.



What should my operating loan limit be?



- Depends on all the farm's short term liabilities (input supplier, credit cards etc)
- Farm enterprise specific.
 - Multiple enterprises can skew operating loan requirements.
 - For example:
 - Dairy should be less than 100% of your "typical" milk check (livestock sales).
 - Crops up to 75% of your annual production expenses.
- If you are always at or approaching your operating loan limit you have one of three problems:
 - 1. Limit is too low.
 - 2. Loan structure is poor / capital expenditures have not been termed out.
 - 3. Lack of profitability.



Chart 5: Interest Rates by Loan Type, Fourth Quarter



Farm Operating Loans

Farm Real Estate Loans



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Machinery and Equipment Loans



- Dealer financing may be beneficial but understand the terms and conditions and estimate APR.
 - Is the purchase price for a cash offer different than dealer financing?
- Revolving capital loans.
- Down payment requirements.
- Amortization should not exceed useful life.
- Avoid inverted interest rate scenarios (or remain disciplined).
 - If your machinery loan interest rate is higher than your operating loan interest rate, what are you tempted to do?
 - Avoid paying debt too quickly hurting working capital and straining cash flow.
- Avoid financing redundant equipment and liquidate unproductive assets.
- Have a replacement plan for key assets.
- Do not buy equipment if it is only to avoid income taxes!
- John Walton's "Equipment Purchase Decision Process." and Alan Galloway's "Tax Planning What the Producer Needs to Know."





Land Loans / Mortgages

Master Farm Manager

- Should I be buying this land?
 - Does it fit in my operation?
 - Can it pay for it self?
 - Can the operation afford the payments?
 - Can I afford the down payment?
 - What is the optimal amortization period?
 - Proximity to existing land base (Swap).
- Seek out beneficial credit arrangements (beginning farmer programs etc).
 - Can I use this purchase to get the next generation some skin in the game?
- Evaluate all fees and interest rate offerings.



Loan Structure



Intermediate

Long-term

Ideally interest rates would be lower for long term debt than short term debt; but this is not usually the case due to timing of when debt was occurred, negotiating, security etc.

Operating

Protect working capital!





- Is now a good time to refinance debt?
 YES, but you still need to do your due diligence.
- Reasons for refinancing
 - Interest savings
 - Improve loan structure / term out short term losses
 - Equity draw as part of a long term strategy
 - Purchase of additional assets
 - Farm transition





- **Refinancing** when a business revises the interest rate, payment schedule, amalgamates credit, and terms of a previous credit agreement.
- Types of Refinancing
 - 1. Rate-and-Term Refinancing
 - Payout existing note(s) with a new note at more beneficial interest rate, terms, or conditions.
 - 2. Cash-Out Refinancing
 - The underlying asset collateralizing the loan increases in value or exceeds current loan-to-value.
 - The transaction involves withdrawing a portion of the value or equity in the asset in exchange for a higher loan amount.
 - 3. Consolidation Refinancing
 - Can be used when a farm obtains a loan(s) at a rate that is lower than their current average interest rate across several credit products.
 - Can reduce average annual/monthly payments to reduce debt servicing requirements (at the cost of time and interest paid).
 - Improve terms and conditions compared to previous loan(s).





- May not solve fundamental issues with profitability in an operation.
 - In which case you signed onto a long-term equity drain that will eventually lead to the sale of assets.
- Equity requirements.
- Most lenders are not receptive to doing refinancing every year or multiple times in a fiveyear period.
- Refinancing should be part of a larger financial plan or strategy to move the business forward.
- Do not refinance and think it is time to go out and obtain a whole bunch more credit!
- You must calculate the numbers to know if it makes sense.





Refinancing Example



- Existing (\$395,000)
 - Operating credit
 - Credit Card = \$20,000 (20.5%)
 - Input supplier = \$10,000 (5%)
 - Operating loan (limit \$125,000) = \$100,000 (6.5%)
 - Intermediate (balance; payment)
 - Truck = \$25,000; \$5,000 (6%)
 - Combine \$75,000; \$15,000 (5.5%)
 - Baler = \$15,000; \$5,000 (5.5%)
 - Long-term (balance; payment)
 - Land loan = \$150,000; \$25,000 (5%)

- New (\$50,000; \$395,000)
 - Operating credit
 - Operating loan (limit \$50,000) = \$0 (6.5%).
 - Long-term
 - Refinance loan = \$395,000; \$31,020 (4.9%)
- Annual payments reduced from \$50,000 to \$31,020.
- Eliminate short term higher interest debt with long-term lower interest debt.





- Acknowledge the purpose of refinancing.
- Evaluate the amortization schedules of current loans.
 - Interest is often paid up front leaving principle at the end of the lending term.
- Do not forget about fees and interest rates.
- Need the collateral.
- Understand the credit terms and conditions.
- Come to your lender prepared.
- Build a relationship with your principle lender.



Tips for Working with Lenders



- Start the relationship early
 - Build honesty and trust
 - Its easier to start small and build a relationship
- Create a narrative
 - Make sure your lender understands your goals and aspirations
- Communication
 - Share the details of your plan
 - Provide essential information
 - Follow up
- Be punctual
 - Arrange and keep meetings; be organized and try to full fill reporting requirements accurately and timely.
- Make use of his / her expertise
- Talk to your lender if you're experiencing financial distress or unforeseen circumstances



Loan Renewal / Application Checklist



- Tax returns, income statement, and balance sheet.
- Last year's production / yield history or crop insurance record for each crop / animal enterprise on your farm.
- A list of outstanding loans: all your liabilities with all terms and payments.
- A list of crops/products carried over into the next fiscal year.
- A list of capital purchases.
- A projection and budget for the upcoming crop year.
- A succession plan.
- Discuss any proposed changes to the business or management structure
- Discuss any issues that affected or may affect the financial performance of the business
- Discuss planned capital purchases or other key decisions



Take Home Message



- Evaluate all current debt instruments for potential savings.
 - Read the fine print
 - Run the numbers
- Fully explore borrowing costs for new credit.
 - Know your current financial position and negotiate accordingly
- Structure your loans appropriately.
- Build a relationship with your lender.
- Review annually.





The Cost of Borrowing

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