



The World's Largest Open Access Agricultural & Applied Economics Digital Library

This document is discoverable and free to researchers across the globe due to the work of AgEcon Search.

Help ensure our sustainability.

Give to AgEcon Search

AgEcon Search

<http://ageconsearch.umn.edu>

aesearch@umn.edu

*Papers downloaded from **AgEcon Search** may be used for non-commercial purposes and personal study only. No other use, including posting to another Internet site, is permitted without permission from the copyright owner (not AgEcon Search), or as allowed under the provisions of Fair Use, U.S. Copyright Act, Title 17 U.S.C.*

No endorsement of AgEcon Search or its fundraising activities by the author(s) of the following work or their employer(s) is intended or implied.

Price Risk Management Creates Unique Credit Issues

by Jack Wozek

Jack Wozek is associate economist with the Federal Reserve Bank of Chicago. The opinions expressed in this article are those of the author and do not represent the opinion of the Federal Reserve Bank of Chicago or the Federal Reserve System.

Farmers and ranchers are increasingly relying upon production and marketing contracts to monitor and manage risk. For lenders, there are numerous issues that need to be addressed when evaluating, structuring and monitoring agricultural credits affected by price risk management tools.¹ This article does not focus on how to use these tools, but rather how lenders should supervise their borrowers who use them.²

As a starting point for understanding the unique issues created by marketing and production contracts, it is important to note some of their differences. When using marketing contracts (such as futures and options), the producer exerts complete control over the production process. The producer buys all of the inputs, makes all of the decisions, and arranges all of the finances. The producer owns the commodity until it is marketed.

On the contrary, producers who use production contracts lose some of their business decision-making autonomy. Producers lose this autonomy because processors may provide some or all of the inputs, may require special management practices, or may finance some of the business investment. With this involvement, the processor may hold ownership of the commodity throughout production. When this occurs, the producer, in effect, acts as a hired agent for the processor.

A farm borrower who uses marketing tools or production contracts to

¹ Price risk is the risk that prices of finished commodities will fall.

² More information on risk management tools is available in "Managing Risk in Farming," Agricultural Economic Report 774 by the Economic Research Service.

lock in a commodity price enters into a web of issues that lenders should address.

1. The lender should verify that the production plan is realistic.

Regardless of the risk management tools a producer selects, borrowers should have a production plan that can be used to evaluate the costs and benefits of the production technologies chosen. Lenders should verify the assumptions the producer makes to construct this plan. In a crop production plan, lenders should establish that:

- 1) Yields are consistent with the quality and quantity of the land,
- 2) Estimates of cost are reasonable relative to production,
- 3) Machinery and labor are sufficient to meet the goals of the production plan, and
- 4) The producer has the necessary skills to achieve the goals of the production plan.

Likewise, in a livestock production plan, lenders should confirm that:

- 1) The feeding program is adequate to produce healthy, market-weight animals,
- 2) The animal feeding and waste management facilities are properly maintained and sufficient to handle the demands of the production plan, and
- 3) The producer holds the necessary skills to achieve the goals of the production plan.

The resiliency of both crop and livestock production plans should be stress-tested using extreme values of price and yield.

When growing specialty crops under a contract, producers may need to assume a cost structure that is

vastly different from the one used when growing a traditional crop. Seed costs are typically higher for specialty crops, while yields may be less than with traditional crops. A good example is high-oil corn, which not only requires more expensive seeds, but also yields less than standard feed corn.³ Furthermore, specialty crops typically demand special management techniques that may add to the cost of production. To preserve the unique identity of specialty grains, for example, producers will need to segregate the specialty grains from other planted crops to prevent cross-pollination. The producers may also need to expend more labor harvesting the grains to preserve their special quality.

Fulfillment of some livestock contracts also requires special, expensive management techniques. For example, to deliver hogs that are free of drug residues and microbial contamination, the producer may need to impose better feeding regimes, stricter feeding facility management, and improved waste management. These changes require higher skills and incur more costs.

2. The lender should analyze the marketing plan. Successful marketing of a commodity is particularly important to the repayment of short-term production loans. When analyzing a marketing plan, a lender should determine what methods or contractual arrangements the producer uses to lock in a price. The lender should also determine if the producer really knows how to use these tools and if the producer can correctly calculate

³ Elizabeth Curry Williams, "Contracting Criteria," *Farm Journal*, 1998.

the expected prices and income.

There are particular flags a lender should look for when examining a borrower's use of risk management tools. If the producer uses futures contracts, for example, the lender should verify that the producer indeed sells futures contracts, that the "short position" does not mature prior to harvest, and that the number of contracts sold does not exceed anticipated production. Likewise, when a producer buys put options to lock in a price, the options should not expire prior to marketing. When crop producers employ cash market contracts, the lender should determine whether or not the producer can satisfy financial obligations to the elevator given a worst-case scenario. Furthermore, the lender should assess the reputation of the elevator for meeting its financial obligations to producers.

3. The lender should separate production notes from hedge notes.⁴

A hedge note is used to fund the hedging activities of a farm. A farm borrower can draw on this line of credit to fund the initial margin as well as maintenance margin calls. A lender can monitor the activities of this account by requesting statements from the producer's broker. Lenders should ensure that the actual hedge account activities are consistent with the marketing plan. Moreover, a covenant in the loan agreement should prohibit speculative activities. For more protection, lenders can take hedge accounts as collateral by executing a security agreement.

The hedge note is different from the production line of credit, which is

⁴ More information on hedge loans can be found in "Risk Management Guide for Ag Lenders" published by the Chicago Mercantile Exchange.

used to fund the production activities of a farm. Throughout the production period, the producer can draw on that line of credit to pay for inputs, labor and loan payments on capital equipment. The lender can monitor the expenses of the producer to ensure the funds are used for their intended purpose, and the lender can secure the crop or livestock as collateral for the loan.

4. The lender should determine the nature of the contractual relationship between the producer and the processor. The nature of the relationship between the producer and the processor has significant implications for the lender. If the producer acts as an independent contractor, then ownership of the commodity stays with the producer until the commodity is sold to the processor. Thus, lenders still have the right to secure the commodity as collateral for the production loan. However, if the producer acts as an agent for the processor, producing goods that are owned by the processor, then the lender has no right to secure the commodity as collateral for the production loan since the borrower does not own the commodity. Furthermore, the lender cannot stop the delivery of the commodity to the processor in the event the borrower defaults on the loan.

5. The lender should determine if the borrower correctly interpreted the payment and contract fulfillment provisions in the contract. Successful repayment of the loan obligation, to a great extent, depends upon successful completion of the contract. The contract is completed when the producer meets all of the

specified requirements and the processor makes payment. Lenders may schedule loan payments to correspond to the payment schedule designated in the contract and also may assign the production contract as collateral for the loan. However, these measures are pointless if the contract is not completed.

There are several situations in which a processor may have the right to cancel the production contract. In one scenario, the processor has the right to cancel the contract if the producer is negligent in his care of the product. A situation where the producer allows the commodity to become diseased, for example, could represent such negligence. In light of this, lenders should clearly understand what conditions could lead to the cancellation of the contract and ensure that the producer has the necessary systems in place to prevent this negligence from occurring.

Furthermore, the processor may have the right to cancel the contract when the producer fails to meet the product specifications. Lenders should clearly understand these requirements as well as the producer's ability to meet them. For example, if a producer of high-oil corn significantly undershoots or exceeds oil requirements, that could be cause for rejection. Likewise, if a producer of cattle or hogs doesn't meet food safety requirements, the livestock could be rejected upon delivery. To protect themselves from rejection, producers of specialty commodities should inde-

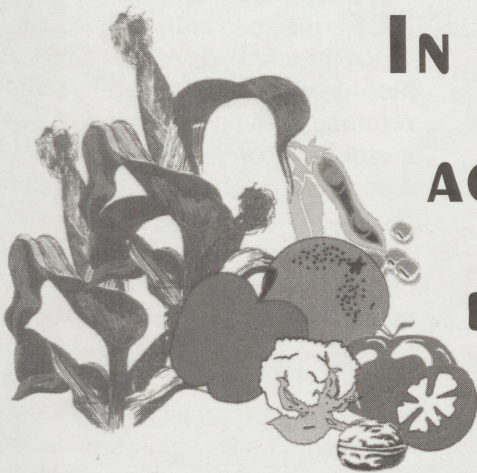
pendently verify that they meet the special requirements by testing a sample of the crop or herd. This testing should be documented.

Even if the contract is completed successfully, the producer may not be able to meet the financial obligations to his lenders. This could occur because the producer may not have correctly interpreted the payment formula specified in the contract. To avoid this, lenders should independently verify the payment calculation.

Conclusion

The five points presented in this article do not represent all of the issues lenders should address, but rather they introduce major ones lenders should consider incorporating into credit evaluation, underwriting and monitoring procedures. Whichever method a producer uses to manage risk, it is always important for lenders to understand how the risk management methods fit into the overall production and marketing plans of the producer. Moreover, it is important that the lender understands the nuances of the contract regarding commodity pricing and quality standards, and that the lender considers these nuances when structuring and monitoring the loan. Inevitably, agricultural producers will always face risk, and as government involvement in the sector decreases, there will be more incentive for producers to employ marketing and production contracts. Thus, lenders should begin to prepare for this change today.

jal



IN A CHANGING AGRICULTURAL ECONOMY. . .

CAPS provides:

**MANAGEMENT
REAL ESTATE BROKERAGE
(including AUCTIONS)**

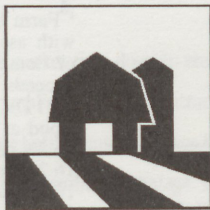
CONSULTING

APPRAISAL

RECEIVERSHIP

FOR ALL TYPES OF OPERATIONS.

**PRUDENT
EXPERIENCED
CONFIDENTIAL
NATIONWIDE**



**Capital
Agricultural
Property
Services, Inc.**

**Call: 800-243-2060
OR: www.capitalag.com**