

Wheat Quality and Protein - Why Does it Matter?

Introduction

Price spreads among wheat grades and protein levels result from the open market response to supply and demand fundamentals.

For an introduction to the topic see "<u>Wheat Quality: Why it Matters</u>" on our YouTube channel.

Background

Buyer specifications, the wheat characteristics required for production of the end-product, drive the market. Wheat is classified not only by grade but also by desirable milling characteristics such as protein content within each individual grade. Canola, on the other hand, has a comparatively simple grading system; #1 or #2, usually with no other quality factors.

Historically, the price premiums or discounts across the protein spread have moved around significantly from year to year. For example, Canadian Wheat Board payments for the 2006/07 crop year, a year of abundant high-grade, high-protein milling wheat production in Canada, provided a premium of \$4.56/tonne (\$0.12/bu.) for #1 CWRS 14.5% protein over 13.5% protein. At the other extreme, the 2010/11 crop year produced well below average quality and protein content due to excessive moisture and cool conditions in many prairie regions. The resulting payment spread for #1 CWRS 14.5% protein over 13.5% protein was \$42.82/tonne (\$1.17/bu.).

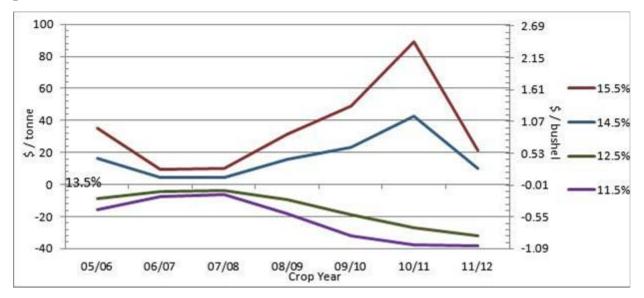


Figure 1. Historical Canadian Wheat Board Payment Spreads around #1 CWRS 13.5% protein.

This example highlights an important market supply principle underlying protein price spreads. If there is abundant production of high-quality, high-protein wheat, then there is a large supply of protein in the market and premiums will be relatively low. If the overall protein content of the wheat crop is low, then the price premiums for wheat with high protein content will be larger as buyers compete to fill their specific quality needs from a small supply.

The Open Market

Open market wheat pricing resulted in more variation in the price spreads across wheat grades and protein levels. Prior to the open market wheat system, farmers would not have seen the impact of a change in world wheat stocks, or a high yielding but low protein domestic crop until they received final payments. The open market will signal to producers the market supply and demand conditions through buyers' price bids. Prices change not only between crop years and over the months within a year, but may fluctuate on a daily basis.

While protein is a standard industry measure, the demand for high protein is specific to buyer specification within individual markets. Grain handlers incur costs to segregate grain by quality at their facilities and each handler may not maintain the same or the same number of protein spread segregations.

What Can You Do?

1. Take the time to learn about protein spreads, the relative profitability of wheat classes and other market factors. Consider the wheat price spreads and what they mean for your farm. Take the time to understand what the market information means, and how it impacts your decisions.

- 2. Know the quality of your harvested crop. It is difficult to market a crop without understanding what you have in the bin, and the price implications of quality characteristics. Proper sampling at harvest time and getting your crop graded by an independent grader (e.g., CGC) has become more important.
- 3. Shop around for the buyer offering you the best net price for your specific wheat grades and protein levels.

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