

Monitoring the Canadian Grain Handling and Transportation System

Third Quarter 2009-2010 Crop Year

Summary Report





Third Quarter Report of the Monitor – Canadian Grain Handling and Transportation System	
2009-2010 Crop Year	

Foreword

In keeping with the federal government's Grain Monitoring Program (GMP), the ensuing report focuses on the performance of the Canadian Grain Handling and Transportation System (GHTS) for the nine-month period ended 30 April 2010. In addition to providing a current accounting of the indicators maintained under the GMP, it also outlines the trends and issues manifest in the movement of western Canadian grain during the first three quarters of the 2009-10 crop year.

As with previous quarterly and annual reports, the report is structured around a number of performance indicators established under the GMP, and grouped under five broad series, namely:

Series 1 - Industry Overview

Series 2 - Commercial Relations

Series 3 – System Efficiency

Series 4 - Service Reliability

Series 5 - Producer Impact

Although the indicators that follow largely compare the GHTS's current-year performance with that of the preceding 2008-09 crop year, they are also intended to form part of a time series that extends forward from the 1999-2000 crop year. As such, comparisons to earlier crop years are also made whenever a broader contextual framework is deemed appropriate.

The accompanying report, as well as the data tables which support it, can both be downloaded from the Monitor's website (www.quorumcorp.net).

QUORUM CORPORATION

Edmonton, Alberta

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Findings

From its outset, the 2009-10 crop year looked as though it would be a difficult one. Beginning with a dry spring, the abnormally cooler temperatures that followed led to widespread concerns over the size and quality of the crops that would be harvested in the fall. But an unusually warm September shielded the late plant development from the potential effects of a killing frost, and largely preserved both the quantity and quality of the grain that was harvested. Even so, an excess of supply in most grain markets, coupled with the reverberations from the financial crisis that were still being felt around the world, saw further downward pressure being exerted on international grain prices. Although still widely superior to prices previously observed under the GMP, the price reductions posted to the end of the third quarter of the 2009-10 crop year suggested that there would be further erosion in the financial returns accruing to Canadian grain producers.

1.0 <u>Industry Overview</u>

1.1 Grain Production and Supply

Overall grain production for the 2009-10 crop year fell to 56.1 million tonnes, a decrease of 7.0% from the previous crop year's record-setting 60.4 million tonnes.\(^1\) Despite this reduction in output, the crop still ranked as the second largest in the last eleven years, coming in well above the typical 50-million-tonne mark. In keeping with this general decline, the production of all major crops, save that of flaxseed, fell in comparison to the tonnage harvested a year earlier. The most significant could be traced to a 2.3-million-tonne reduction in the barley crop, which fell by 20.4% to a three-year low of 8.9 million tonnes. Compounding this was a 1.4-million-tonne reduction in oats, down 35.0%; a 0.7-million-tonne decrease in wheat, down 3.6%; and a 0.2-million-tonne drop in canola, down 1.6%. Running counter to this pattern were the majority of special crops, which saw overall production increase by 8.1% to reach a GMP record of 5.6 million tonnes.

Changes in provincial production varied widely, with comparatively modest gains of 34,900 tonnes and 93,600 tonnes for British Columbia and Saskatchewan respectively having been counteracted by more substantive reductions in Alberta and Manitoba.² The most significant decline was reported by Alberta which, owing to poorer growing conditions, saw total production fall by 20.1%, to 16.0 million tonnes from 20.0 million tonnes a year earlier. Given its scope, this accounted for over 95% of the net decline in total grain production. The balance was attributable to a much smaller 3.0% contraction in

Grain Supply

Grain Supply

Grain Production

Grain Production

Carry Forward Stocks

10

1999-00 2000-01 2001-02 2002-03 2003-04 2004-05 2005-06 2006-07 2007-08 2008-09 2009-10

Figure 1: Western Canadian Grain Supply

Manitoba's output, which declined by a total of 0.3 million tonnes to 10.1 million tonnes.

Notwithstanding the 7.0% decline in production, the grain supply itself decreased by a much lesser 0.5%, falling to 65.7 million tonnes from 66.0 million tonnes a year earlier. What could have been a potentially greater fall was cushioned by a 68.5% increase in the amount of stocks carried forward from the preceding crop year, which rose to 9.5 million tonnes from 5.6 million tonnes. Much of the impetus for this build-up came as a result of mounting global grain supplies along with a softening in commodity prices.

¹ Owing to revisions made by Statistics Canada, the production value cited here differs from the 55.1 million tonnes reported in the Monitor's first and second quarter reports.

² Although British Columbia posted a year-over year increase of 22.4%, total production rose to 190,800 tonnes from 155,900 tonnes. Similarly, the gain posted by Saskatchewan amounted to just 0.3%, with total output having risen to 29.9 million tonnes from 29.8 million tonnes.

Even with the decrease in the Canadian grain supply, the GHTS's handlings in the first nine months of the 2009-10 crop year actually increased. Railway shipments for the period rose by 4.7%, climbing to 20.4 million tonnes from 19.5 million tonnes a year earlier. Although increases were noted for most commodities, the gain posted by the CWB grains was superior to that of the non-CWB grains, up by a collective 6.1% versus 3.0% respectively. Durum and barley were the strongest performers among the CWB grains, with volume increases of 21.4% and 13.6% respectively. Running well behind these was wheat which, owing to a 19.0% decline in third quarter tonnage, posted a volume gain of just 2.3% for the first nine months.

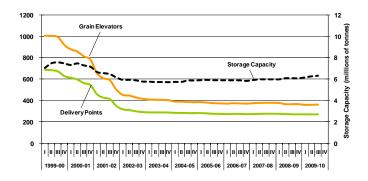
For the non-CWB grains, the story proved much the same. Despite a significant increase in shipments for the majority of grains, an 18.7% reduction in third-quarter canola shipments served to counteract much of the gain that had been registered through to the end of the first half.³ The year-to-date gain was cut from 14.4% at the close of the six-month mark, to just 3.0% by the end of nine-months. The effect was even more pronounced among the special crops, where a 28.7% reduction in pea shipments was largely responsible for a 13.5% decline in the segment's total handlings for the same period, which fell to 2.0 million tonnes from 2.3 million tonnes.

1.2 Country Elevator Infrastructure

As outlined in the Monitor's previous reports, although the country elevator network has continued to diminish in size, the pace of that reduction has abated significantly in recent years. The first quarter of the 2009-10 crop year saw another seven licensed elevators removed from this network. This, however, was partially reversed in both the second and third quarters, when at first one, and then another two, were returned to the fold. By the end of April 2010 the remaining network encompassed a total of 362 facilities, which represented just over one-third, 36.1%, of the 1,004 elevators that had been in place at the beginning of the GMP.

Reflecting the decline in elevator facilities has been a largely parallel reduction in active grain delivery points. As was the case with licensed elevators, there was a modest reduction in the number of these delivery points during the first nine months of the 2009-10 crop year. As a result, this served to reduce the 272 points still actively gathering grain at the end of the 2008-09 crop year to 270 by the close of the third quarter. This denoted a 60.6% reduction from the 685 locations that had been accepting grain at the beginning of the GMP. Despite the fact that these sites are widely distributed throughout western Canada, the majority of grain delivered has been concentrated at about one-third

Figure 2: Grain Delivery Points, Licensed Elevators, and Licensed Elevator Storage Capacity



of these locations. In the 2008-09 crop year, the last for which data is available, 80% of the tonnage delivered into the system was gathered at just 89 locations.⁴

The reduction in elevator storage capacity has not been nearly as dramatic as the decline in either the number of elevators or grain delivery points. This facet of the country elevator system's transformation reflects the industry's refocused investment in high-throughput facilities. Despite a 63.9% reduction in the total number of elevators, the system's storage capacity has never declined by more than 19.0% from the 7.0 million tonnes gauged at the outset of the GMP. Moreover, since reaching a low of 5.7 million tonnes at the close of the 2003-04 crop year, the industry's investment in high-throughput facilities had added back another 0.4 million tonnes of storage capacity into the system by the end of the 2008-09 crop year. This process continued into

³ Canola shipments in the first half reached a record 3.5 million tonnes. Much of this was tied to Chinese demand, which ballooned to a record 1.3 million tonnes in the same period.

⁴ The most recent statistics available for grain deliveries by station are those from the 2008-09 crop year.

the 2009-10 crop year with another 231,800 tonnes having been added back in its first nine months. By the close of the third quarter, total storage capacity had climbed to slightly below 6.3 million tonnes; a mere 10.5% below the level recorded at the beginning of the GMP.

These broad trends provide a clear indication of the evolution that has been taking place within the industry since the beginning of the GMP. The elevator network now comprises far fewer facilities, many with significantly larger storage capacities and the ability to load railcars in trainload lots. It is worth noting that when the GMP began, only 11.9% of the system's elevators were able to load 50 or more railcars at a time. As a result of elevator rationalization, however, this proportion has been steadily rising. In fact, with the close of the third quarter, high-throughput facilities accounted for more than half, 52.2%, of the licensed elevators comprised within the GHTS.

1.3 Railway Infrastructure

As previously reported, total railway infrastructure in western Canada has undergone a comparatively modest transformation since the beginning of the GMP. By the end of the 2008-09 crop year the railway network had been reduced by just 8.0%, to encompass a total of 17,904.7 route-miles of track. Although 87.2% of this 1,563.5-route-mile reduction was derived from the abandonment of grain-dependent branch lines, there were equally significant changes in the makeup of the system that remained. Much of this related to the fact that CN and CP had transferred a variety of uneconomic branch line operations to a host of new shortline railways; a process that began in the mid 1990s. Although this was but one element in a wider industry restructuring, it resulted in slightly more than one-quarter of the railway network being operated by smaller regional and shortline carriers.

The first significant change in this strategy came in 2004 when CN acquired the operations of what was then western Canada's only Class 2 carrier, BC Rail Since then, the waning financial health of most shortline carriers has led many into either selling or rationalizing their own operations. This resulted in a number of shortline operations reverting back to the control of the Class 1 carrier that had spun them off in the first place. Perhaps the most striking of these reversals came in January 2006 when RailAmerica Inc. sold most of its holdings in western Canada back to CN.5 disappearance of these regional and

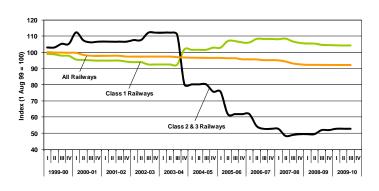


Figure 3: Relative Change in Railway Infrastructure

shortline railways served to again realign the scope of Class 1 and non-Class 1 railway operations.

It must be noted that many of these shortline operations had been established with an eye towards preserving railway service on what the Class 1 carriers had come to regard as uneconomic branch lines. While many of these were dependent on the movement of grain, most shortline railways proved incapable of reshaping the economics that gave rise to the grain industry's broader elevator-rationalization programs. Although these smaller carriers could point to some success in attracting new business — much of which has been tied to increased producer-car loading — they could not prevent the grain companies from continuing to close the smaller elevators that remained critical to the shortline carriers' commercial success.

The effect of these shortline closures could be seen in the division of the railway network itself. Whereas, shortline railways had controlled 23.8% of the western Canadian system at the outset of the GMP, by the close of the 2008-09 crop year that share had fallen to a much lesser 13.7%. The infrastructure still being operated by these carriers had fallen by 48.0%, to 2,411.3 route-miles from 4,640.3 route-miles a decade earlier.

⁵ The sale encompassed 702.8 route-miles of railway infrastructure grouped under three separate operations: the Central Western Railway; the Lakeland and Waterways Railway; and the Mackenzie Northern Railway.

Moreover, even with abandonments, the infrastructure under CN and CP control actually increased by 4.2% during this same period, climbing to 15,493.4 route-miles from 14,827.9 route-miles.

The 2009-10 crop year brought still more examples of the changing face of shortline operations in western Canada. After more than a decade of service, the Okanagan Valley Railway suspended operations altogether in September 2009. But the failure of the OVR stood in contrast to the creation of yet another Saskatchewan-based shortline, the Last Mountain Railway, which began operating over an 84.5-mile stretch of former CN track extending southward from Davidson to Regina in October 2009. Following the lead set down by the Great Western Railway several years before, the takeover was spearheaded by a consortium of local municipal and business interests led by Mobil Grain Ltd. The new railway was also able to secure a portion of its immediate capital needs from the provincial government, which extended the carrier a \$1.6 million interest-free loan.

It is worth noting, however, that with the advent of four new shortlines in just two years, the amount of traffic originated by these smaller carriers has started to rebound. Much of this can be seen in the tonnage shipped through the first nine months of the 2009-10 crop year, with comparative gains of 2.8% for the Class 1 carriers set against a substantially greater 10.1% for the shortline railways. Perhaps even more compelling evidence of a potential turnaround could be found in the workload for the third quarter itself, which saw Class-1-carrier tonnage fall by 12.1% in comparison to a 17.7% gain for the shortlines. Nevertheless, the broader changes in underlying elevator infrastructure continue to disfavour the smaller railways. Since the beginning of the GMP the shortlines have seen the number of elevators they service fall by 76.8%; against a 63.8% reduction for the major carriers. Even more telling has been the comparative decline in the storage capacities of these two networks, with that serviced by the shortlines falling by 75.0% against a mere 5.6% for the Class 1 carriers.

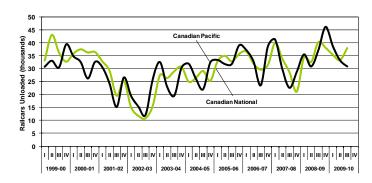
There were no track abandonments in the first nine months of the 2009-10 crop year. As a result, the scope of the overall railway network in western Canada remained unchanged at 17,904.7 route-miles. Still, the transfers already noted produced a 38.2-route-mile shift in the balance between the Class 1 and non-Class 1 carriers. By the end of April 2010 CN and CP operated over a marginally smaller 15,455.2 route-miles of track, which

constituted a year-to-date reduction of just 0.2%. In comparison, the shortline network grew by 1.6%, climbing to 2,449.5 route-miles of track.

1.4 Terminal Elevator Infrastructure

No changes to the licensed terminal elevator network in western Canada were recorded during the first nine months of the 2009-10 crop year. At the close of the third quarter, the network still comprised a total of 15 facilities with 2.5 million tonnes of associated storage capacity.

Figure 4: Terminal Elevator Unloads - Railway Carrier



⁶ The Okanagan Valley Railway operated over a 94-mile network situated in the British Columbia interior. Much of this was accessed through the exercising of trackage rights over infrastructure formerly owned by CN, and later transferred to the Kelowna Pacific Railway. But the company also leased a 46.3-mile section of connecting track from CP, which extended south from the CP main line at Sicamous to Vernon. When the OVR ceased operating, this leased section reverted back to CP control. CP is reportedly now considering the abandonment of this line.

⁷ The line embodies the southern section of CN's Craik subdivision. Under the terms of the agreement, the Last Mountain Railway purchased the 67.0-mile section between Davidson and Lumsden, and leased the remaining 17.5-mile section leading into Regina.

⁸ In addition to the Last Mountain Railway, three other shortlines have been established since the beginning of the 2007-08 crop year: Torch River Rail; the Great Sandhills Railway; and the Boundary Trail Railway.

⁹ Despite the fact that no track was abandoned in the first three quarters of the 2009-10 crop year, the network plans of both CN and CP continued to show another 830 route-miles of Class 1 railway infrastructure being targeted for discontinuance over the next three years. About two-thirds of this was earmarked for discontinuance by CP.

A total of 209,172 carloads of grain were unloaded at these facilities during the first nine months of the 2009-10 crop year. This represented a decrease of just 0.5% from the 210,231 handled during the same period a year earlier. Having originated 50.9% of the cars that were unloaded during this period, CN displaced CP as the largest handler of export grain in western Canada. Although this share proved to be identical to that secured by the carrier in the same nine-month period a year earlier, much of the result was shaped by CN's more substantive handlings in the third quarter.¹⁰

Although the record remains mixed, CP has often outdistanced CN's quarterly handlings since the 2002-03 crop year. In large part, this could be explained by a distribution in crop production that tended to benefit CP rather than CN. Even so, CN's efforts to promote its Prince Rupert gateway appear to have done much to help compensate for this imbalance. Reduced freight rates along with a better allocation of cars to the corridor have helped CN to narrow that market share substantially. Moreover, operational difficulties that began to appear on CP late in the second quarter seemingly helped CN to secure an even better market share in the months that followed.

¹⁰ At the close of the first half, CN's share of the overall movement stood at 48.8%. A third-quarter increase in volume saw the carrier's handlings rise to 55.2%.

2.0 Commercial Relations

2.1 Tendering Program

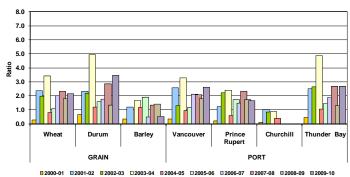
The 2009-10 crop year denotes the tenth for the Canadian Wheat Board's tendering program. Initially established with a three-year life under a Memorandum of Understanding between the Minister Responsible for the Canadian Wheat Board and the CWB, the program has evolved significantly since the MOU expired at the end of the 2002-03 crop year. The most fundamental change involved the establishment of a protocol between the CWB and its agents that called for 40% of the CWB's overall grain movements to the four ports in western Canada to be accomplished through a combination of tendering and advance car awards. While shipments under these two programs always fell short of this target, the proportion moving under them has fallen noticeably in the last three crop years; sliding from 33.6% in the 2006-07 crop year to 26.5% in the 2008-09 crop year. Much of this decline reflected the CWB's adoption of a less rigid target, and one that gave them an even greater degree of flexibility in moving grain.

In the first nine months of the 2009-10 crop year the CWB issued a total of 188 tenders calling for the movement of 2.0 million tonnes of grain. This represented a 20.6% reduction from the 2.5 million tonnes put out for tender in the same period a year earlier. As in most previous crop years, the largest portion of this tonnage, 71.2%, related to the movement of wheat. Durum accounted for another 18.6%, while the residual 10.2% was tied to barley.

The majority of the tender calls issued in the first three quarters, 42.7%, favoured the delivery of grain to Prince Rupert. This proved lower than the 48.9% share the port secured in the same nine-month period of the 2008-09 crop year. Vancouver followed with a 36.1% share, gaining substantially against the 29.5% share it garnered a year earlier. With a noticeably lesser 21.2% share of the tonnage called, Thunder Bay ranked as the third largest intended destination. For a fifth consecutive year, no tenders calling for delivery of grain to Churchill were issued.

The calls issued by the CWB were met by 681 bids offering to move an aggregated 4.4 million tonnes of grain; more than twice the volume sought. Driven by the activity surrounding durum, the bidding proved more intensive than in the preceding crop year. Using the ratio of tonnage-bid to tonnage-called to gauge response rates of the companies, the intensity of the bidding on durum tenders proved second only to that of the 2003-04 crop year. The response rate rose by 163.2%, producing a ratio of 3.5 in comparison to 1.3 for the previous crop year as a whole. The increase in the response rate on wheat tenders proved significant less, with a gain of 18.8%

Figure 5: Tendered Volume – Ratio of Tonnage Bid to Tonnage Called



raising the associated ratio to 2.1 from the 2008-09 crop year's 1.8 value. Only barley showed a marked decrease in bidding activity, with the ratio falling by 64.5%, to 0.5 from 1.4 a year earlier.

Some pronounced changes in the response rates for the port specified in the tender calls were also evident. In particular, the ratio associated with grain intended for delivery at Thunder Bay more than doubled, climbing to 2.7 as compared to 1.3 for the previous crop year as a whole. Vancouver's ratio saw a much lesser 45.7% gain, rising to 2.6 from the previous year's 1.8. Only Prince Rupert saw a reduction, with a modest 3.3%

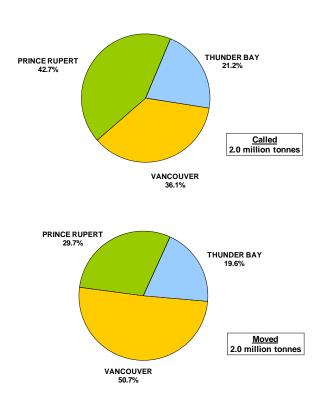
¹¹ Vancouver's share of the tonnage put out for tender has declined significantly since the 2004-05 crop year, when it was accorded a record 70.9% of the total.

decline leaving the ratio effectively unchanged at 1.7. With no tender calls having been issued for Churchill, the ratio of tonnage-bid to tonnage-called remained at zero.

For the most part, these increased response rates reflected the competition that had been spurred as a result of a further reduction in the amount of grain put out for tender. This was especially evident with respect to the movement of durum. Owing to a surplus occasioned by the sizeable quantity of stocks carried forward from the previous crop year as well as a comparatively large harvest, the grain companies appeared desirous of clearing as much from their houses as possible. This was reflected in the more aggressive bids being put forward by the grain companies on durum shipments directed to Thunder Bay as well as Vancouver. Whereas the maximum discount on tendered durum shipments reached \$14.95 per tonne in the 2008-09 crop year, they increased by 57.6% to \$23.56 per tonne in the third quarter. 12

Aside from the heightened activity relating to durum, the discounts bid to secure wheat tenders moved steadily lower in the first nine months of the crop year, with the maximum bid falling from the previous crop year's high of \$23.01 per tonne to \$15.62 per tonne by the end of April 2010. This pattern appeared to be consistent with previous observations to the effect

Figure 6: Tendered Grain – Cumulative Volumes to 30 April 2010



that tender bids generally peak at harvest time, when the grain companies are anxious to maintain elevator fluidity. Even so, there was still evidence to the effect that the bidding on movements to Vancouver was more aggressive than on those to Prince Rupert.¹³ It should be noted, however, that the differential in the discounts put forward by the grain companies on these movements narrowed in the first nine months of the 2009-10 crop year. Whereas the difference between the maximum discounts advanced on wheat tenders to Vancouver and Prince Rupert in the 2008-09 crop year amounted to \$5.66 per tonne, by the close of the third quarter these discounts tended to favour Vancouver by a noticeably lesser \$2.85 per tonne.

During the first nine months of the 2009-10 crop year the CWB awarded a total of 284 contracts for the movement of an aggregated 2.0 million tonnes of grain.¹⁴ This represented a gain of just 0.4% over an almost identical volume one year earlier. Unlike the tonnage specified in the tender calls, the largest proportion of the grain contracted for movement, 50.7%, was destined to the port of Vancouver. This was followed in turn by Prince Rupert and Thunder Bay, which garnered shares of 29.7% and 19.6% respectively.

¹² The tender bids advanced by the grain companies are typically expressed as a discount to the CWB's Initial Payment.

¹³ Prince Rupert Grain's shareholders all have wholly-owned facilities in Vancouver. This provides them with a monetary incentive to direct grain through Vancouver, as they do not have to share terminal revenues to the same extent as they do on movements through Prince Rupert. Some shareholders are also concerned with the single-carrier service entailed in moving grain to Prince Rupert, preferring the availability of two carriers in the movement of grain to Vancouver.

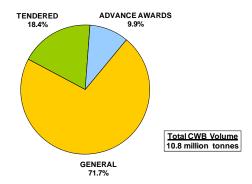
¹⁴ The volumes cited as moving under the CWB's tendering program also extend to tendered malting barley – which is administered independent of other tendered CWB grains.

As previously observed by the Monitor, the vast majority of the grain moved under the CWB's tendering program did so in blocks of 25 or more railcars. During the first nine months of the 2009-10 crop year, 92.8% of the tendered grain volume moved in such blocks. This proportion proved to be marginally superior to the 91.0% recorded for the 2008-09 crop year as a whole. There was also an increase in the proportion moving in blocks of 50 or more cars, which rose to 72.9% from the previous crop year's 61.9% average. Equally telling was the fact that the proportion of shipments moving in blocks of 100 or more cars also increased, taking a 21.7% share of the total against just 11.9% in the previous crop year.

High-throughput elevators continued to originate virtually all of the tendered grain shipped. During the first nine months of the 2009-10 crop year, these larger facilities accounted for 97.9% of the total tonnage shipped under the CWB's tendering program. Although consistent with the higher shares observed in recent years, this proved to be slightly greater than the 97.7% share moved through these facilities for the 2008-09 crop year as a whole.

In terms of originating carriers, CP retained its position as the largest handler of tendered grain in the first nine months of the 2009-10 crop year. With 57.5% of

Figure 7: Western Canadian CWB Grain Volumes



the volume originated, the carrier easily outdistanced CN's 42.5% share. Moreover, it is worth noting that the share secured by CP in the movement of tendered grain was substantially greater than the 49.1% it earned from the movement of grain at large. As has been observed previously, much of this advantage appears to stem from the larger number of high-throughput elevators serviced by CP.

In aggregate, 18.4% of the CWB's total grain shipments moved under tender to western Canadian ports in the first nine months of the 2009-10 crop year. Notwithstanding only a marginal gain in the amount of tendered grain handled, the CWB reported that its Transportation Savings for the period had increased by 49.6%, rising to \$35.6 million from \$23.8 million.¹⁵

2.2 Advance Car Awards Program

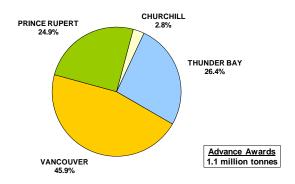
The 2009-10 crop year marks the seventh season for the CWB's advance car awards program, with almost 1.1 million tonnes of grain having been moved under it in the first three quarters. This constituted just 9.9% of the total grain volume shipped by the CWB to western Canadian ports during the period. When considered alongside the 2.0 million tonnes of grain moved under the CWB's tendering program, the combined volume shipped under the umbrella of these two programs reached 3.1 million tonnes. This represented 28.3% of the 10.8 million tonnes of grain shipped by the CWB in the first nine months of the crop year, and proved marginally less than the 30.7% share secured by these same programs a year earlier.

The composition of the grain shipped under the CWB's advance car awards program once again proved broadly similar to that moved under its tendering program. Even so, there were some notable differences, the most significant being that while almost one-fifth of the volume moved under the tendering program was comprised of barley, none moved under the advance car awards program. As a result, wheat and durum took up comparatively larger shares of the overall movement. Wheat, which continued to be the foremost grain handled, accounted for almost 0.9 million tonnes and 84.1% of the program's overall volume. This was followed by another 0.2 million tonnes of durum, which made up the remaining 15.9%.

¹⁵ The CWB defines its Transportation Savings as the savings in transportation costs it realizes from the discounts advanced by the successful bidders under the tender program, all freight and terminal rebates, and any financial penalties it may assess for non-performance.

Vancouver, which had ranked first among tendered grain destinations with a 50.7% share, also received the largest portion of the volume shipped under the advance car awards program, although this share proved to be a lesser 45.9%. The second largest share was in Thunder Bay, which received 26.4% of the grain moved under the advance car awards program versus 19.6% under the tendered grain program. Ranking third was Prince Rupert, which took a 24.9% share of the advance car awards movement in comparison to the 29.7% it secured under the CWB's tendering program. Although no grain was directed to the port of Churchill under the tendering program, 2.8% of the volume moved under the advance car awards program was.

Figure 8: Advance Car Awards - Destination Port



As was the case with tendered grain shipments, the vast majority of the grain moved under the advance car awards program, 95.1%, originated at high-throughput elevators. This proved only marginally below the 97.9% share cited earlier for tendered grain shipments. CP also handled the majority of this grain, taking a 60.0% share in comparison to its 57.5% share on tendered grain.

When compared to tendered shipments, a significantly lesser volume of the grain shipped under the advance car awards program moved in blocks of 25 or more cars. This is because the cars allocated to shippers under the advance car awards program are often integrated with those obtained through the tendering program as a means of optimizing individual block or train movements. As such, this practice effectively dilutes the values that are obtained for the aggregate volume moved under the two programs. By way of example, 89.3% of this total volume moved in blocks of 25 or more railcars as compared to 92.8% for tendered grain alone. Similarly, these blocks averaged 58.5 cars in size versus an average of 66.6 cars under the tendered grain program.

2.3 Other Commercial Developments

2.31 Market Access Issues Impact the GHTS

The commercial dangers of being overly reliant on foreign markets were brought into sharp focus early in the 2009-10 crop year when a German laboratory discovered a telltale marker from genetically modified (GM) Canadian flaxseed in European food products. With the European Union (EU) having already adopted a zero tolerance on unapproved GM traits, the discovery led to the immediate suspension of all Canadian flaxseed sales to Europe, and the loss of its largest flaxseed market.

The gene marker in question was ultimately traced back to a GM flaxseed variety known as Triffid, which had been developed by the University of Saskatchewan's Crop Development Centre in the late 1980s. Although developed further in the 1990s, Triffid was ultimately deregistered in 2001 over growing concerns that European regulators would not approve its GM traits. Triffid never actually went into commercial production, and the grain industry believed that all traces of the variety had been expunged through pedigreed seed recovery or processing.

The Canadian Grain Commission moved quickly to test for the presence of Triffid in samples taken from all recent flaxseed shipments, with three ultimately proving positive. At the same time, the Canadian flaxseed industry began working with the EU's director general for health and consumer affairs to establish an acceptable protocol for the sampling, testing and documentation of all future shipments. Although flaxseed shipments to Europe remained embargoed through the remainder of the first quarter, by the beginning of the

second quarter a stringent set of new rules that allowed for the resumption of Canadian exports had been agreed upon.¹⁶

And while flaxseed exports to Europe resumed in December 2009, total shipments through to the end of the third quarter proved to be well below normal, with 166,200 tonnes having been exported versus 330,800 tonnes in the same nine-month period a year earlier. Despite this reduction, Canada was able to make up much of the shortfall with sales into new markets. The most prominent among these was China, which imported a total of 169,100 tonnes of Canadian flaxseed in the first nine months of the 2009-10 crop year.

Compounding the emergence of the Triffid problem was the identification by the United States Food and Drug Administration (FDA) of yet another Canadian-originated railway shipment of canola meal that showed traces of salmonella bacteria. The problem first arose in the fall of 2008, when a shipment of meal from a Canadian canola crusher was found to be contaminated. Under American law, the discovery of such contamination results in the crusher automatically being placed on an "import alert list," with all subsequent movements to the US from that shipper being subjected to thorough testing, resulting in delayed border crossings and possible entry refusals. By the fall of 2009, six, or about half of Canada's crushers had been placed on the alert list. The second and third quarters saw some modifications to this list, with the restrictions on shipments from the Cargill crushing facility at Clavet, Saskatchewan, having been lifted in December 2009, and new ones applied against those from the ADM plant at Lloydminster, Alberta, added in March 2010.

The impetus for the increased FDA scrutiny stemmed from a number of high-profile incidents in which people had become ill as a result of the bacteria. Although the Canadian canola industry argued that these canolameal shipments were intended to be used as animal feed, and therefore subject to lower standards than when directed towards human consumption, the FDA remained unmoved. As a result, Canada's canola crushers were forced to scale back production, searching for alternative domestic and foreign canola-meal markets.

Yet another setback befell the industry in October 2009 when China informed the Canadian Food Inspection Agency that a new certification requirement would be needed on all canola imported into that country as of 15 November 2009. This additional certification was to stipulate that the canola being imported was free of blackleg; a soil-borne pathogen found around much of the world, including China.¹⁷ Chinese authorities insisted that the embargoing of all non-certified canola was mandated since the black-leg variant present in Canada (as well as Australia) was more virulent than its own domestic strain. The potential for this to disrupt trade with China, which, as Canada's largest customer, purchased 2.9 million tonnes of canola seed in the 2008-09 crop year, quickly escalated the matter into a paramount concern for the industry.

Officials from the Canadian government as well as the Canola Council of Canada moved to try and find a solution to the problem. Moreover, the high-level discussions that followed failed to find an effective alternative to the pending Chinese ban on the importation of non-certified canola. However, the Canadians did gain an important concession: China would allow non-certified canola to be landed at three ports in non-canola growing regions of the country (where the fear of contamination was considered substantially less) for the remainder of the 2009-10 crop year. The Chinese also indicated that they were prepared to substantially increase their canola-oil imports in 2010, to 350,000 tonnes from about 150,000 tonnes.

By the close of the third quarter, the Canadian grain industry had come to accept the realities of these new market-access issues. Moreover, there was the growing recognition that these issues could have far-reaching consequences for the entire GHTS. Beyond its immediate implications, the industry was beginning to acknowledge that the system's capacity could be significantly constrained if greater product segregation was going to be required in both the short and longer-term future. At the same time it was becoming attuned to the fact that trade barriers, regardless of their legitimacy, could arise very quickly, and leave marketers with little lead time in developing alternative commercial strategies.

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¹⁶ The protocol required grain handlers to retain samples of all the flaxseed delivered from farms for testing in the event that GM traits were later discovered. Composite samples of the flaxseed loaded into railcars were to be tested by CGC-accredited laboratories, which would be able to identify any contaminated shipments prior to their arrival at a port terminal. Finally, the CGC was required to certify that flaxseed loaded into vessels destined for Europe was GM-free (0.01% or less).

¹⁷ Black-leg is known to cause plant diseases that can significantly reduce yields. The threat posed to Canadian production has been mitigated by the development of black-leg resistant varieties.

2.32 CN Delists Producer Car Loading Sites

In September 2009 CN announced that it was closing 53 of its 218 producer-car loading sites. The carrier noted that the closures were being made because the sites had produced little or no traffic in several years. On a provincial basis, the 53 to be delisted encompassed 9 from Manitoba; 24 from Saskatchewan, and 20 from Alberta. The announcement followed the 60-day notification period set out for such closures in the *Canada Transportation Act.*¹⁸

This announcement, however, was met with a widespread backlash from a number of affected communities and stakeholder groups. Producer-car loading advocates decried the loss of what they perceived as viable competitive options for moving grain given the significant rationalization of elevators and branch lines that had already taken place. They also attacked CN for having posted its planned closure notices during a period when farmers were preoccupied with the pending harvest, and less likely to take notice or respond. Through all of this, there were numerous calls for the federal government to intervene on the farmer's behalf, and to impose a moratorium on such closures until a broader legislative review into the rights of the producer to load his own grain could be undertaken. The subject was even broached in hearings held by the House of Commons Standing Committee on Agriculture and Agri-Food in October 2009.

CN renewed its argument to the effect that there had been no producer-car shipments from the majority of these sites in the preceding five years, and that little volume had been forwarded from those that did originate traffic. Moreover, the railway pointed out that a readily-available alternative could be found within 25 kilometres of most producer-car loading sites being slated for closure. Following an intervention by the Government, the carrier said that it could not economically justify the continued absorption of the track inspection and maintenance costs tied to these sites as a result of their limited use.

In light of the souring public-relations atmosphere, CN consented to partially pull back on its plans. Firstly, it agreed to reissue the notices that it had published concerning the planned closure of 13 of its 53 sites, as these had been widely viewed as not meeting regulatory requirements. The railway also committed to delay any attempt at removing the physical infrastructure associated with these sidings pending further consultation with affected parties. This resulted in a two-phased approach to the closure of all 53 sites, with an initial 40 having been closed down in the first quarter, and the remaining 13 being shut down in the third.

Still, not all producers were satisfied with the concessions that had been made by CN. And while CN moved forward with its revised closure schedule, a Saskatchewan farmer, Cam Goff, in a bid to block the railway's plan, lodged a formal complaint against it with the Canadian Transportation Agency in December 2009. In a parallel measure, Manitoba's Keystone Agricultural Producers moved to have the Agency mediate a similar complaint over the future of these sites with CN, but the effort ultimately failed and the matter dropped. Despite the effective closure of all 53 sites by the end of the third quarter, the Agency had yet to render a decision in the Goff challenge.

2.33 Railway Service Complaints Diminish

As reported in previous editions of the Monitor's reports, complaints over railway service and car allocation have been on the rise in recent years. Of particular concern has been a perceived decline in the consistency and reliability with which that service has been delivered. Grain shippers have frequently cited costly instances where railcars have not been spotted in a timely manner at country elevators for loading, or at destination terminals for unloading. The general car allocation process – always a contentious matter – also came under fire from shippers who argued that they were continually being shorted, often in preference to other shippers.

¹⁸ The Canada Transportation Act requires that CN and CP maintain a current listing on their corporate websites of the sidings they provide for producer-car loading. Any of these sidings may be closed by the host railway following a 60-day notice of its planned closure in a newspaper with a general circulation in the area where the siding is located.

¹⁹ As a means of informally addressing complaints brought against federally-regulated carriers, the Canadian Transportation Agency offers a confidential dispute-resolution service to the parties involved. This consists primarily of employing the Agency as a facilitator or a mediator before a formal complaint is lodged with the Agency.

Since 2007, a number of grain shippers, all frustrated with the service they were receiving from CN, have brought their complaints to the Canadian Transportation Agency for redress. In most instances, the Agency found that the carrier had in fact breached its common carrier obligations, finding – as in the case undertaken by Great Northern Grain Terminals Ltd. – that the breach even had a wider "systemic" dimension. In all such cases, the Agency directed CN to undertake specific remedial actions. In the year that followed, CN appeared to have taken a number of steps towards addressing at least some of these service issues. In fact, shipper complaints became less vociferous in consideration of the improved railway service they were receiving.

Still, in March 2009, Western Grain Trade Ltd. (WGTL) launched a similar complaint with the Agency concerning the service it had been receiving from CN at its facility in Hamlin, Saskatchewan. As a processor and exporter of special crops, WGTL maintained that reliable and consistent rail service was essential to its commercial success. Moreover, the shipper alleged that CN's erratic service had already undermined its business and caused it financial harm. The complainant indicated that it was ultimately seeking an order, consistent with the remedies previously advanced by the Agency, which would direct the carrier to provide service that better reflected the shipper's specific needs.

In February 2010 the Agency determined that CN had not breached its level-of-service obligations to WGTL. Although the Agency recognized that CN had been rationing cars between its various customers – including those allotted to WGTL – it found that the allocation was reasonable under the circumstances. Moreover, the Agency also found that the level of service being sought by WGTL was at least in part aimed at overcoming the operational limitations of its own facility, and that this standard effectively exceeded what could reasonably be requested of the carrier itself.²¹

2.34 Review of Rail Freight Service

In response to the concerns that had been raised by a wide number of shippers regarding the state of railway service in Canada, the federal government committed itself in early 2008 to a review of railway service. ²² This undertaking was but one facet in a broader initiative aimed at enhancing the shipper protection provisions already contained in the *Canada Transportation Act*. The general focus of this review was to examine the performance of the freight logistics system in Canada with an eye towards identifying any problems or issues respecting railway service. This was also to include those issues stemming from the operations and activities of stakeholders other than the railways, including shippers, receivers and other logistics partners.

The review was to be conducted in two distinct phases. The first of these phases centred on gathering and analyzing the pertinent data relating to the railways' performance during a two-year period between 2006 and 2008. The second would see a panel of eminent person's appointed to review the work completed in the first phase, and to further that investigation by consulting with various parties from the broader stakeholder community regarding the problems that had been identified. The panel would then develop its recommendations, ultimately submitting its final report to the Minister of Transport, Infrastructure and Communities.

By the end of the second quarter of the 2009-10 crop year, the work associated with the first phase of the review had essentially been completed. Moreover, the three-member panel had already been appointed and was moving forward with its planned consultation of the stakeholder community.²³ To this end, the panel issued a general call for formal stakeholder submissions relating to the various issues, potential solutions and other factors that they believed should figure into the development of the panel's recommendations.

²⁰ See Canadian Transportation Agency Decision Number 344-R-2007, dated 6 July 2007.

²¹ See Canadian Transportation Agency Decision Number 42-R-2010, dated 9 February 2010.

²² The events leading up to this commitment are outlined more fully in the Monitor's annual report for the 2007-08 crop year.

²³ The three-member panel was named on 23 September 2009, and comprised: Walter Paszkowski, a former cabinet minister with the Government of Alberta, who would also serve as the panel's chair; David Edison, a former executive with the Canadian National Railway Company; and William LeGrow, a former executive with West Fraser Mills Ltd.

Representatives from all corners of the grain industry were actively involved in this process, which resulted in submissions from the Western Grain Elevator Association, the Inland Terminal Association of Canada, and numerous commodity and producer groups. For the most part, these submissions not only voiced anew the grain industry's long-standing concerns over the erratic nature of existing railway service, but also argued for stronger regulatory measures as a means of tempering what was still widely regarded as the monopolistic power of the railways. The panel's final report was not expected to be released until sometime in the autumn of 2010.²⁴

²⁴ Addition information concerning the Rail Freight Service Review, along with its preliminary reports, can be found on its website at: http://www.tc.gc.ca/eng/policy/acq-rfs-review-examen-sfm-rvw-eng-442.htm.

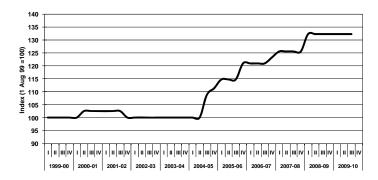
3.0 System Efficiency and Service Reliability

3.1 Trucking

Short-haul trucking rates have risen substantially since the 2004-05 crop year. By the end of the 2008-09 crop year, these rates had risen by a factor of 32.2% from what they had been a decade earlier. Ultimately, this reflected the effects of rising fuel and labour costs. However, they also reflected the increase in grain shipments which heightened the demand for carrying capacity, and gave service providers a greater degree of latitude in passing these costs onto their customers.

Despite the reduction in fuel costs that followed the collapse in crude oil prices in the latter half of 2008, commercial trucking

Figure 9: Composite Index – Short-Haul Trucking



rates for the movement of grain have remained largely unchanged since the first quarter of the 2008-09 crop year. Moreover, the demand for their services has been sustained by the comparatively large volumes of grain that have continued to move. As a result, the composite price index for short-haul trucking in the third quarter stood unchanged from the 132.2 attained eighteen months earlier.

3.2 Country Elevators

Total country elevator throughput, as measured by shipments from primary elevator facilities, declined slightly in the first nine months of the 2009-10 crop year. The system's year-to-date handlings fell by 4.4% to 25.1 million tonnes, largely as a result of a 12.1% decline in third quarter volume. This was equally reflected in the primary elevator system's lower turnover ratio, which declined by 7.0% to 4.6 turns for this same nine-month period. Some of the reduction was also attributable to a 129,400-tonne increase in the system's overall storage capacity, which rose to 5.5 million tonnes. Notwithstanding the immediate effects of this recent increase, the overarching effects of an accumulated 0.9-million-tonne net reduction in storage capacity over the course of the last decade has helped to bolster the turnover ratio substantially and lend to an overall improvement in system productivity. The GHTS's remaining primary elevator network continues to handle substantially more grain than it did at the beginning of the GMP.

The amount of grain maintained in inventory increased by 9.3% in the first nine months of the 2009-10 crop year, rising to a weekly average of 3.0 million tonnes as compared to the 2.8-million-tonne average posted in the same period a year earlier. Much of this increase appears to have stemmed from a progressive reduction in elevator throughput, and which helped inflate third-quarter stocks to its largest level in several years, almost 3.2 million tonnes.²⁷ The amount of time spent by grain in inventory also increased in the crop year's first nine months, rising by 13.8%, to an average of 33.0 days from 29.0 days. This also suggests that grain inventories were turning over more slowly as a consequence of reduced commercial activity.

²⁵ The discussion entered into here pertains specifically to the volume of grain passing through the primary elevator system. As such, it excludes the throughput associated with process elevators as well as the handling of producer cars.

²⁶ Comparatively, the annualized equivalent of the volume of grain that was shipped from the primary elevator system in the first nine months of the 2009-10 crop year would have yielded a capacity turnover ratio of 6.1. This ratio compares favourably with the better values recorded under the GMP, including the record-setting 6.6 reached in the 2008-09 crop year.

²⁷ This quarterly average was last surpassed in the third quarter of the 2000-01 crop year, when elevator stocks stood at an average of 3.6 million tonnes. Country elevator stocks have generally been falling in conjunction with the overall reduction in the primary elevator system's storage capacity. Despite periodic fluctuations, the quarterly average remains well below the 4.1-million-tonne record set in the second quarter of the 1999-2000 crop year.

These forces served to elevate the overall average weekly stock-to-shipment ratio for the period by 12.2%, which grew to 4.6 from the 4.1 scored a year earlier. This value affirms that grain inventories were still more than sufficient to meet the prevailing demand, and that the grain companies faced comparatively few challenges in sourcing product during this period.

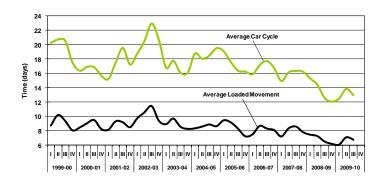
3.3 Railway Operations

The volume of grain moved in covered hopper cars during the first nine months of the 2009-10 crop year increased by 3.0%, to 19.6 million tonnes from 19.0 million tonnes a year earlier. With originations of 19.0 million tonnes, the Class 1 carriers saw a 0.5-million-tonne increase in volume, which represented a 2.8% gain for the period. And while this constituted an overall share of 97.1%, it also marked a loss of 0.2 percentage points from the 97.3% share these carriers had secured in the same period a year earlier. This loss denoted a stronger showing on the part of the shortline railways, whose originated volumes totalled 0.6 million tonnes and increased by 10.1% in the same period.²⁸ In addition, there was a noticeable difference in the amount of grain originated by the grain-dependent and non-grain-dependent networks, with the former increasing by 16.6% while the latter fell by 2.3%.

3.31 Car Cycles

The railways' average car cycle continued to show improvement, with the average for the first nine months of the 2009-10 crop year declining by 6.3% from that posted for the same period a year earlier, to 13.1 days from 14.0 days respectively. The year-to-date average proved to be the best yet recorded for the same period since the beginning of the GMP, and was largely built on the stronger showings made in the first and second quarters.²⁹ Once again, the reduction proved broadly based, with improvements noted in each of the three primary corridors. The most substantive gain was noted in the Thunder

Figure 10: Average Railway Car Cycle



Bay corridor, where the nine-month average fell by 10.8% to 12.9 days. This was followed by a 5.8% reduction in the Prince Rupert corridor's average, which fell to 11.6 days. Although the 5.3% reduction posted in the Vancouver corridor followed closely behind, the average posted in this corridor proved the highest among the three, amounting to 13.9 days.

The improvement extended equally to the loaded and empty portions of the car cycle. In the case of the former, the average time under load fell by 5.8%, to 6.7 days from 7.1 days a year earlier. A marginally greater reduction of 6.9% was observed for the empty portion of the movement, with the average falling to 6.5 days from 6.9 days.

The two main carriers posted markedly different results, with the CN average having fallen by 9.0% against a more modest 3.8% reduction for CP. These differences extended to the loaded and empty portions of each carrier's car cycle as well. In the case of CN, the carrier posted a 9.0% reduction in the loaded portion of its average cycle along with a marginally lower 8.9% reduction in that of its empty portion. Changes in the corresponding CP averages were noticeably less, with a 0.8% reduction on the loaded portion of its movement

²⁸ Given a 4.4% decrease in producer car shipments, the increase in originated shortline volume proved surprising. Much of the increase in volume was attributable to the handlings of two new entrants: The Great Sandhills Railway; and the Boundary Trail Railway.

²⁹ The averages posted in the first and second quarters amounted to 12.5 days and 13.9 days respectively. Although these did not constitute the lowest quarterly averages observed under the GMP, they still proved significantly better than the 15.3-day and 14.5-day averages posted for these same periods a year earlier. These individual gains were instrumental in countering the effects arising from an increase in the third-quarter average, which rose by 3.2%, to 13.0 days from 12.6 days a year earlier.

versus a 6.3% reduction on the empty component. Much of CP's comparatively weaker performance could be attributed to the effects of an elongation in the carrier's third-quarter car cycle, which rose by 17.4%.

The general improvement in the average car cycle was also reflected in those of non-special and special crops. The average car cycle for non-special crops fell by 6.7% to 12.9 days for the first nine months of the 2009-10 crop year. This value proved to be 16.8% less than the 15.5-day average tied to special crops, which posted a more modest reduction for the period of 1.5%. On the whole, these results continue to suggest that there is an operational difference in the way service is provided by the railways for the movement of special crops.

While the railways' continued focus on better asset utilization serves to explain some of this improvement, the more basic force underscoring this appears to have been the overarching benefit derived from the fact that grain did not have to compete for railway capacity to the same degree as it had in past crop years. This was due to the global financial crisis that began to take hold in the late summer of 2008, and which caused overall railway volumes to plummet. Because of such a widespread decline in traffic levels, both CN and CP have both been able to direct a larger share of their carrying capacity towards the movement of those commodities that remained. Notwithstanding the operational difficulties that seemed to have plagued CP's performance in the third quarter, export grain shipments, which have remained at comparatively higher-than-normal levels, continued to benefit from this freeing of capacity.

3.32 Railway Freight Rates

As outlined in the Monitor's previous reports, CN and CP broke with the practice of advancing largely parallel adjustments to their single-car freight rates at the beginning of the 2003-04 crop year. They also made the first substantive changes to the incentive discounts that they had been offering for movements in multiple-car blocks at that same time. Over the next four crop years, a process involving the setting of new rates at the beginning of the crop year followed by at least one adjustment in the second half emerged. This new process was aimed at maximizing the revenues that the carriers were entitled to receive under the revenue cap; a task for which CN and CP have both shown a substantial aptitude.

But the largely mileage-based, per-tonne rate structure that gave rise to these across-the-board adjustments was itself beginning to change. Mileage is no longer the primary or sole determinate for the setting of rates. One of the most striking elements in this evolution came at the beginning of the 2006-07 crop year when CN initiated a partial changeover to commodity-specific, per-car charges.³⁰ And while CP appeared to lag in this transition, by the close of the 2007-08 crop year a wholesale conversion in the rate structures of both carriers had been completed. In addition, the 2007-08 crop year brought about a renewed emphasis on differential pricing, with more substantive rate increases being applied on shipments to Thunder Bay and Churchill rather than those to the west coast. At the same time, CN also widened the advantage it had begun giving single-car movements to Prince Rupert.³¹

Inherent within this was also an initial move towards seasonal pricing, which tied rates to the prevailing demand for railway carrying capacity at various points in the crop year. All of this introduced a new element of complexity to the movement of grain, with the railways' single-car rates either rising or falling accordingly. This pattern, however, was unduly complicated in the 2008-09 crop year by virtue of the unusual considerations that arose from legal challenges undertaken by the railways.³² As a result, the single-car freight rates posted during

³⁰ In adopting per-car charges, CN grouped its single-car rates according to the average loading weights for commodities having similar densities. As a result, the per-car charges published for a given group differed from those published for another. The complexities introduced as a result of the adoption of this structure makes tracking all rate changes impractical. As a result, the GMP focuses its attention on the changes pertaining to the movement of wheat and those grains grouped with it.

³¹ At the beginning of the GMP, single car rates for grain moving to Prince Rupert were about 13% greater than those applicable on its movement to Vancouver. The actions taken by CN in reducing its rates in the Prince Rupert corridor over the course of the last several years denotes a significant change in its pricing strategy, and one that has resulted in a substantial increase in volume for this more northerly port.

³² CN and CP had moved to legally challenge an earlier decision of the Canadian Transportation Agency concerning a one-time adjustment to the Volume-Related Composite Price Index for the 2007-08 crop year. While appealing this decision to the Federal Court of Appeal, neither carrier moved to incorporate the adjustment mandated by the Agency in their rate structures. This meant that both CN and CP ran the risk of exceeding their revenue caps by a substantial margin for a second consecutive year if the court ultimately failed to find in its favour. When the Federal Court of Appeal sided with the Agency, and the Supreme Court dismissed

the 2008-09 crop year fluctuated dramatically, initially moving substantially higher and then sharply lower. By the end of the crop year, these freight rates had moved to levels lower than those observed twelve months earlier.

The 2009-10 crop year saw yet another dimension of complexity being given to the rate structure, although little of this was in evidence initially. CP actually extended its single-car rates in all corridors through to the end of the first quarter. And while CN initially took much the same action on shipments to the west coast, the carrier advanced a more complex mix of rate increases and decreases in early October 2009. On the whole, while single-car movements of wheat to Vancouver on CN lines benefited from an average rate reduction of about 6.1%, these varied widely in relation to distance. By way of example, single-car shipments from Alberta experienced an average reduction of 3.1%; from Saskatchewan, 5.9%; and from Manitoba, 10.7%. Much the same was true of the single-car rates that CN advanced on shipments to Prince Rupert, which fell collectively by an average of 3.7%, but which saw an increase of 1.7% applied against movements from Alberta, while reductions of about 3.1% and 10.6% occurred on traffic from Saskatchewan and Manitoba.

CN's single-car rates for grain moving to Thunder Bay saw a similar restructuring, although these rates were escalated at the very beginning of the 2009-10 crop year by as much as 10%. Once again, however, the adjustment appeared to be tied to distance, with significant geographic variation. The single-car rates on movements from points in much of Manitoba incurred no increase at all, while those situated further west sustained escalations that ranged from about 5% in parts of northern Manitoba and northeastern Saskatchewan, to around 10% in western Saskatchewan and Alberta. Even so, these rates were largely rolled back by about 6.5% in mid October 2009. By the close of the first quarter, the net effect of all this was an overall increase of about 1.9%, although this result was shaped by a reduction of 1.2% on single-car shipments from Manitoba, and increases of about 1.8% and 2.8% on movements from Saskatchewan and Alberta respectively.³⁵

Rate adjustments in the second quarter largely centred on those applicable for the movement of grain to Thunder Bay, with CP reducing its single-car rates by an across-the-board factor of 6.0% while CN again posted geographically-based rollbacks that averaged about 5.1%.³⁶ There were adjustments to the westbound rates as well, but these proved more selective in nature. In the case of CN, the carrier left its single-car rates on movements to Vancouver unaltered, but reduced those applicable on shipments to Prince Rupert from points in British Columbia and Alberta by an average of 2.7% and 2.3% respectively.³⁷ CP appeared to be moving in much the same direction, selectively reducing its single-car rates on movements to Vancouver from Alberta and Saskatchewan by an average of 2.1% and 1.7% respectively, which served to lower the carrier's average single-car rate in this corridor by 1.3%.

the carriers' later application for leave to appeal that decision, the stage was set for a recompression of the carriers' rate structures in order to preclude another large overage in revenue.

³³ Comparatively, this meant that the single-car rates on movements to Vancouver from points in Manitoba were about 1.2% less than they had been at the beginning of the GMP; those from points in Saskatchewan, 6.7% more; and those from points in Alberta, 9.3% more.

³⁴ A provincially based examination of the net change in the single-car rates applicable on grain shipments to Prince Rupert since the beginning of the GMP reveals a significantly lesser degree of price variation in comparison to that identified in the Vancouver corridor. In this same timeframe, the single-car rates on grain movements from Manitoba had fallen by 11.0%; Saskatchewan, 12.1%; and Alberta, 9.1%.

³⁵ The net change in single-car rates since the beginning of the GMP showed a modest degree of provincial variation, with those applicable on grain movements from Manitoba having risen by 16.4%; Saskatchewan, 16.3%; and Alberta, 13.5%.

³⁶ The pricing reductions posted by CN in the second quarter ranged from a low of 4.6% on movements from Alberta to a high of 5.2% on those from Saskatchewan.

³⁷ The overall impact arising from these specific pricing adjustments was a modest 0.6%% reduction in the average single-car rate for movements to Prince Rupert.

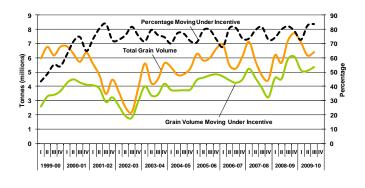
The third quarter saw much of the focus shift towards the west coast. For the most part, CP's rates remained unaltered, while the westbound rates posted by CN were reduced by as much as 7.7%. These latter reductions proved steepest in the Vancouver corridor, falling by a factor of 5.7% against a much lesser 1.9% decline on shipments to Prince Rupert.

Running counter to these pricing actions was a reduction in the single-car rates applicable on grain moving to Churchill, which were cut by an average of 14.3% at the outset of the crop year. Here too, the reductions also varied according to distance, and generally ranged from a low in the area of 10% to high of 22%. The smaller reductions were tied to rates from points in northern Manitoba and Saskatchewan, while the steepest were associated with points in southern Saskatchewan.

The net change in single-car rates over the course of the last decade provides some interesting insight into the evolution of railway pricing. By the close of the 2009-10 crop year's third quarter, the single-car rates on grain movements in the Vancouver corridor had increased by a factor of 4.0%, while those in the Thunder Bay corridor had risen by a greater 8.9%. For the more northerly ports, the compound effect of CN's adjustments saw the rates on movements to Prince Rupert actually decline by 13.3%, while those applicable on Churchill-bound shipments were raised by 19.5%. Taken together, these patterns continue to suggest that the railways are tending to favour shipments to the west coast, and that they have become more willing to use price in an effort to influence that movement.

There have been equally significant changes to the structure of the financial incentives both carriers have used to promote the movement of grain in multiple car blocks. The most noteworthy of these involved the ultimate elimination of the discounts, smaller-block and escalation of those tied to the largest.42 Moreover, there can be little doubt that as in the restructuring of single-car freight rates - the monetary emphasis that has added to the largest block been movements has served to draw even more grain into the high-throughput elevator Over the course of the last decade, the discount applicable on these

Figure 11: Railway Volume Moving Under Incentive



latter movements has risen by a factor of 60%, climbing from \$5.00 per tonne to \$8.00 per tonne. The 2009-10 crop year produced no further changes in these incentives. For CN the discounts offered on movements in

³⁸ The rate reductions posted by CN in the third quarter were again differentiated geographically. The 7.7% reduction cited here pertained to shipments from a select number of points in British Columbia to Vancouver.

³⁹ CN is the only carrier that publishes single-car rates for the movement of grain to Churchill. In the 2008-09 crop year, however, the validity of its tariffs was made to correspond more directly with the port's shipping season. As a result, single-car rates to Churchill typically become effective in early summer and expire in the autumn. This effectively means that no rates are in place for the movement of grain to Churchill for as much as eight months out of any given crop year. For comparative purposes, the pricing variations cited here pertain to those observed between the current and preceding shipping season.

⁴⁰ While these composite values help underscore overall escalation of single-car rates in the two corridors, they also obscure some of the differences between the carriers. In the Vancouver corridor, CN's single-car rates actually declined by an average of 0.3%, while the average increase on wheat moving to Thunder Bay amounted to 9.6%. CP's corresponding average increases in these corridors amounted to 8.3% and 8.1% respectively.

⁴¹ Owing to the limitations of consistent pricing data over the full span of the GMP, inter-carrier comparisons of the single-car rates on CN and CP originated traffic to Prince Rupert and Churchill are not possible. The averages inherent in the increases posted by CN provide the best indication of price movement in both corridors.

⁴² There are structural differences in the blocks sizes used by CN and CP. Although both define two sizes, CN's program segments these into blocks of 50-99 cars, and 100 or more cars. This contrasts with the segmentation used by CP, which employs larger block sizes, namely those involving shipments of 56-111 cars, and those consisting of 112 or more.

blocks of 50-99 cars remained at \$4.00 per tonne, as did the \$8.00 per tonne incentive offered on movements of 100 or more cars. The \$5.00-per-tonne discount advanced by CP for movements in blocks of 56-111 cars was also unaltered, as was its \$8.00-per-tonne maximum on shipments in blocks of 112 cars.

The quantity of grain moved under the railways' incentive programs during the first nine months of the 2009-10 crop year increased by 3.7%, to 15.6 million tonnes from 15.0 million tonnes a year earlier. This proved superior to the 3.0% increase in grain shipments discussed previously, and underscored the continuing marginalization of non-incentive based movements. Moreover, there was a 13.3% increase in the value of the discounts earned by shippers, which rose to an estimated \$104.6 million from \$92.3 million a year earlier. Much of this was fuelled by the increased discounts that both CN and CP implemented in the second quarter of the preceding 2008-09 crop year. As a result, the average-earned discount rose by 9.3%, to \$6.71 per tonne from \$6.14 per tonne twelve months before.

3.4 Terminal Elevator and Port Performance

3.41 Terminal Elevators

A total of 18.5 million tonnes of grain passed through the terminal elevators of Canada's western ports in the first nine months of the 2009-10 crop year. This marked a 1.7% increase from the 18.2 million tonnes handled in the same period a year earlier. Accounting for over half of the overall throughput, Vancouver again proved to be the largest export gateway. Total throughput for the port rose by 7.6%, largely on the strength of CWB grain shipments, increasing to 11.2 million tonnes from 10.4 million tonnes a year earlier. Although Prince Rupert's throughput ranked well behind that of Vancouver, its volume fell by 1.7%, declining to 3.3 million tonnes from the previous crop year's handlings of 3.4 million tonnes.

The results for the eastern gateways of Churchill and Thunder Bay proved equally mixed. With a 24.4% increase in terminal throughput, Churchill's volume totalled slightly more than 0.5 million tonnes. This denoted a significant resurgence in volume for the port, as well as its fourth largest throughput since the beginning of the GMP. Conversely, the port of Thunder Bay saw its nine-month volume decrease by 13.4%, falling to 3.4 million tonnes from 4.0 million tonnes a year earlier. This decline was broadly based, and attributable to reductions in a variety of CWB as well as non-CWB grain shipments.

Although terminal inventories moved higher in the second and third quarters, the year-to-date average of 1.3 million tonnes proved 4.0% lower than the 1.4-million-tonne average posted a year earlier. Much of the overall decline was attributable to a reduction in durum and canola stocks, which fell by 10.4% and 17.2% respectively. This was reflected in reductions for most ports, which ranged from a low of 0.8% at Vancouver, to 4.0% at Thunder Bay, and a substantive 52.2% at Churchill. Running counter to this pattern were the inventories maintained at Prince Rupert, which actually increased by 19.5%.

Notwithstanding the progressive increase in terminal stocks, there was little sign of their significant aging outside of the second quarter. In fact, by the close of the third quarter the year-to-date average for storage time had actually fallen by 3.4%, to 16.9 days from 17.5 days. The strongest influence on these results was seen at the ports of Churchill and Vancouver, which posted reductions of 35.7% and 7.1% respectively to produce corresponding averages of 14.8 days and 11.8 days. In contrast, Prince Rupert saw stocks being held in inventory for an average of 14.6 days, a gain of 21.7% over the 12.0-day average reported a year earlier. A 4.9% increase in the storage time at Thunder Bay raised the port's average to a near-record 32.1 days.

Variations in individual terminal throughputs and inventories produced widely varying shifts in the stock-to-shipment ratios for each of the major grains. At Vancouver, most moved lower, while those associated with Prince Rupert generally increased. Although Thunder Bay saw an increase in the ratio tied to wheat, changes in those for durum, barley and canola proved decidedly negative. So too was the change in the ratio for wheat at Churchill, which fell by 53.6%. Although few ratios fell below the all-important 1.0 threshold, there were

In terms of comparative size, Prince Rupert's throughput for the period ranked third among the four ports in western Canada. Even so, the volume gains made by the port reflect the economic advantages that have been given to it in recent years: A reduction in CN's applicable freight rates; and an improvement in the corridor's overall car allocation.

some noteworthy exceptions.⁴⁴ Among these was the posting of a 0.5 ratio for canola moving through Vancouver in the first quarter. Although shortages can never be fully avoided, and inventories can be tight at specific periods, few concerns were registered during the first nine months of the 2009-10 crop year.

3.42 Port Performance

Some 584 vessels called at western Canadian ports during the first nine months of the 2009-10 crop year, an increase of 4.3% from the 560 vessels that called during the same period a year earlier. The average amount of time these vessels spent in port during this period increased by 30.6%, rising to an average of 6.4 days from 4.9 days a year earlier. This result was driven by sharply higher averages in all three quarters, with the peak having been defined by a 7.2-day average in the second quarter.⁴⁵

The majority of this increase was attributable to a sharp rise in vessel waiting time, which climbed by 42.9%, to an average of 3.0 days from the preceding crop year's 2.1-day average. Much of this occurred in the vessel waiting times at Vancouver and Prince Rupert, which climbed by 33.3% and 88.9% respectively to post corresponding averages of 4.0 days and 5.1 days. To a large extent these delays were occasioned by inclement west-coast weather, particularly in the second and third quarters, which also contributed to the build up in terminal inventories. Although there was also an increase in the amount of time taken to load these ships, the gain proved a comparatively lesser 21.4%, boosting the overall average to 3.4 days from 2.8 days a year earlier.

Not surprisingly, the amount of time spent by vessels in port rose most significantly at the west coast ports of Vancouver and Prince Rupert. The most substantive increase related to Prince Rupert, where the length of the typical layover jumped by 57.4%, to an average of 8.5 days from 5.4 days a year earlier. The duration of the stays at Vancouver rose by a lesser 20.0%, increasing to an average of 8.4 days from 7.0 days. Once again, the second quarter's averages proved among the highest yet recorded for the two ports, with both standing at more than ten days. Although Churchill posted an 18.4% increase, its average rose to a much lesser 5.8 days from 4.9 days. Total vessel time in port proved even less at Thunder Bay, where the year-to-date average remained unchanged at 1.7 days.

3.5 The Supply Chain

As outlined in earlier editions of the Monitor's quarterly and annual reports, the supply chain model provides a useful framework by which to examine the speed with which grain moves through the GHTS. For the 2008-09 crop year, it was observed that this process required an average of 50.1 days; the lowest annual average recorded the beginning of the GMP. Much of this was shaped by significant reductions in each of the supply chain's principal time components: while in storage at a country elevator; while in transit as a railway shipment; and while in inventory at a terminal elevator.

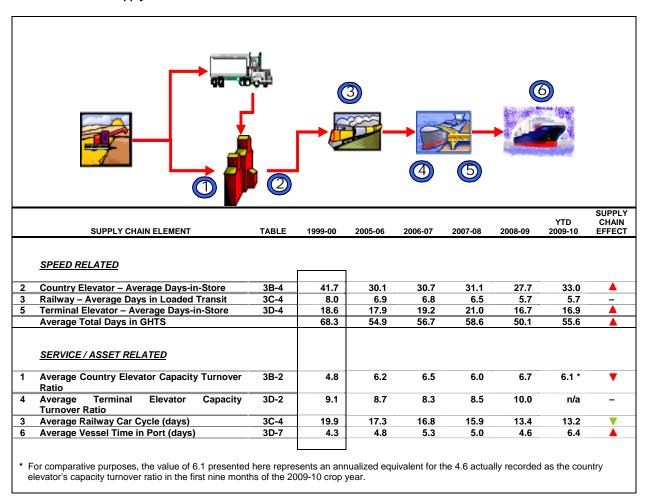
The overall amount of time involved in moving grain through the supply chain rose by 11.0% in the first nine months of the 2009-10 crop year, to an average of 55.6 days. This was due to the additional time spent by grain in storage, which increased by an average of 5.3 days when in the country elevator system, and by another 0.2 days when it entered the terminal elevator system. In comparison, the railways' average loaded transit time remained unchanged.⁴⁶

⁴⁴ A stock-to-shipment ratio in excess of a value of 1.0 implies that a terminal's existing stocks were sufficient to fill the demand posed by vessels loading in the coming week.

⁴⁵ It is worth noting that, save for the third quarter's average of 6.7 days, record highs of 5.3 days and 7.2 days were recorded in both the first and second quarters.

⁴⁶ Until recently, the Monitor employed a broader measure of the railways' loaded transit time in gauging the speed with which grain moved through the GHTS. This definition incorporated the time associated with unloading the railcar at destination. Owing to a potential overlap with terminal elevator storage times, the Monitor has opted to employ a narrower measure of the railways' loaded transit time – one that excludes the unloading time – in gauging the speed with which grain moves through the GHTS. The numbers presented with respect to the railways' loaded transit time in this discussion, as well as in Table 1, have been revised to reflect this change. In order to differentiate these time values from the broader measure that still incorporates unloading time – and which is used elsewhere in this report – the latter is now referred to as the loaded portion of the movement and/or car cycle.

Table 1: The GHTS Supply Chain



Despite the overall increase, the amount of time spent by grain in moving through the GHTS in the first three quarters remains one of the better values recorded since the beginning of the GMP. In addition to the preceding, a few other comments concerning the performance of the GHTS in the first nine months of the 2009-10 crop year are warranted:

- Firstly, although the grain supply declined by 0.5%, falling to 65.7 million tonnes from 66.0 million tonnes, the 20.4 million tonnes of grain moved in the first nine months of the 2009-10 crop year proved to be the largest for the period in the GMP's history. As a result, the pressures brought to bear on the GHTS during this period proved to be the greatest yet experienced.
- Secondly, the effects of the financial crisis that negatively impacted commodity markets around the world at the beginning of the 2008-09 crop year were still reverberating more than a year later. North American railway shipments, while showing signs of increasing, remained substantially below what they had been before the onset of what became the deepest economic recession in several decades. From the vantage point of the GHTS, however, this proved advantageous in as much as it continued to free capacity that could be directed towards the movement of grain. This was reflected in a 13.1-day average car cycle for the first nine months of the crop year; the lowest average yet achieved for the period under the GMP. Moreover, grain shippers appeared largely satisfied with the service they were receiving from the railways during this period.

which at the close of the third quarter stood better than two days less than that observed in the GMP's base year. This was supported by a lesser reduction in the amount of time spent by grain in storage at terminal elevators.	base year. This was supported by a lesser reduction in the amount of time spent by grain in stor	ement in the cilities. time, SMP's
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4.0 Producer Impact

4.1 Producer Netback

One of the GMP's key objectives is to determine the impact on producers arising from changes in the GHTS. The principal measure in this regard is the producer netback, an estimation of the per-tonne financial return to producers after the various logistics costs, collectively known as the export basis, are deducted from the actual price realized in a grain sale.

In its earlier reports, the Monitor described how increased commodity prices had largely been responsible for the improvement in the per-tonne returns accruing to producers of wheat, durum, canola, and yellow peas. Even in those years when the export basis fell, the financial gain derived from the reduction proved far less than that gained from better grain prices. But the escalation in grain prices has been highly erratic. In the first four years of the GMP, grain prices moved steadily higher. This, however, was followed by a three-year decline beginning in the 2003-04 crop year. But prices rallied sharply in the 2006-07 crop year, with even more substantial gains having been posted a year later. By the 2007-08 crop year, the financial returns accruing to farmers had reached its peak. Unfortunately, the global financial crisis significantly impacted commodity markets in the opening months of the 2008-09 crop year, only adding further downward pressure on weakening grain prices brought about by increased world supplies. Although the producers' netback moved sharply lower as a result, they remained superior to those initially realized in the 1999-2000 crop year.

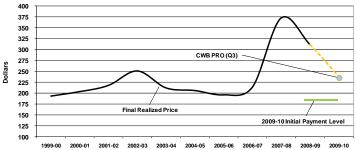
The GMP only includes these indicators in the Monitor's annual reports since certain elements integral to the calculation are not available until after the close of the crop year itself. Nevertheless, current price and inputcost data is collected for both wheat and canola as a means of providing some insight into their probable impact on the per-tonne financial return arising to producers. Some of the changes observed during the first nine months of the 2009-10 crop year are summarized below.

4.11 CWB Grains

The GMP uses the CWB's Pool Return Outlook (PRO) for 1 CWRS wheat (13.5% protein) as the principal barometer of changing CWB grain prices. Throughout much of the first nine months of the 2009-10 crop year, the CWB's PRO for 1 CWRS moved steadily downwards. Gauged against the 2008-09 crop year's final realized price of \$311.36 per tonne. the PRO fell by a further 23.6%, closing out the third quarter at \$238.00 per tonne. This, however, still proved to be well above the farmer's initial payment, which had opened the year at \$186.30 per tonne.

400 375 350

Figure 12: Recent Price Changes - 1CWRS Wheat (dollars per tonne)



Much of the impetus for this decline in price stemmed from the expectation of increased global supplies in the face of weaker overall demand. Although North American production factored into this, it was largely the increase in European, Russian and Ukrainian production that served to exert the most downward pressure on wheat prices. A two-million-tonne increase in the estimate for Canadian wheat production, put forward by Statistics Canada in December 2009, only contributed to further erosion in the market price. Owing to these forces, the financial returns accruing to producers are expected to decline sharply in the 2009-10 crop year, although they are still likely to compare reasonably well against those witnessed earlier in the GMP.

Among other elements, the export basis includes the cost of trucking, elevator handling and railway movement. It also includes where applicable, the CWB's pooling costs, and other incidental charges. Similarly, it also includes a deduction for any of the financial benefits accruing to producers as a result of the receipt of trucking or any similar premiums, as well as the CWB's transportation savings.

4.12 Non-CWB Grains

Although not nearly as significant a decline as that posted for wheat, the Vancouver cash price for 1 Canada Canola also fell steadily throughout the first nine months of the 2009-10 crop year, decreasing by 9.0% to an average of \$423.27 per tonne compared to the previous crop year's final average of \$465.22-per-tonne. A late finish to the fall harvest ultimately resulted in 12.4 million tonnes of canola being binned in 2009. This large supply, second only to the record 12.6 million tonnes harvested the previous year, coupled with steady producer deliveries, helped place significant downward pressure on price.

The magnitude of the price decrease noted for 1 Canada canola strongly suggests that there will be a negative impact on the per-tonne financial returns of western Canadian grain producers in the 2009-10 crop year, although as with wheat, prices and returns are widely anticipated to be higher than the historical norm.

Even so, rising input costs seemed likely to erode these returns even further. The most pronounced of these were the increases tied to various country and terminal elevator activities. In the case of

600
550
500
450
450
350
300
Average Vancouver Cash Price

2002-03 2003-04 2004-05

2005-06

Figure 13: Recent Price Changes – 1 Canada Canola (dollars per tonne)

the former, these increases ranged from a low of 0.6% for elevation, to a high of 5.4% for storage. To a lesser degree, the escalation on the tariff rates tied to terminal elevation and storage activities amounted to about 1.2% and 1.9% respectively. Running counter to these pricing initiatives were the various reductions posted by CN and CP in their freight rates. By the close of the third quarter, these reductions stretched from a low of about 1.2% on CP movements to Vancouver, to a high of 14.3% on CN movements to Churchill.

4.2 Producer-Car Loading

As related in the Monitor's 2008-09 annual report, the aggregate number of producer-car loading sites had fallen from 709 to 437 over the course of the last decade. Much of this net decline was the product of a reduction in the number of sites maintained by CN and CP, which fell from 644 to 333. Still, a portion of these were initially taken over by a variety of shortline railways, which served to raise their count from 65 at the outset of the GMP to a height of 166 by the end of the 2003-04 crop year. The subsequent demise of several small carriers, however, resulted in some of these reverting back to Class-1-carrier control. By the end of the 2008-09 crop year only 104 producer-car loading sites remained under the umbrella of shortline operators. The first nine months of the 2009-10 crop year saw the Class 1 carriers close a further 55 producer-car loading sites, which reduced their number by 16.5% to 278. With no change in the number operated by the shortline carriers, the total number of producer-car loading sites slid from 437 to 382.

Following a comparatively weak first-quarter start, where producer-car shipments fell by 13.7%, a second-quarter rally helped gain back a substantial portion of this lost ground. Still, by the close of the third quarter, producer-car shipments stood 4.4% behind those handled a year earlier, with total carloadings for the period falling to 8,632 from 9,026 respectively. In relation to the volume of grain shipped in covered hoppers, producer-car loadings accounted for just 4.0% of the overall total. This share increased to 7.0% when gauged against CWB grains alone, which constituted the majority of producer car movements. Both values stood below the 4.3% and 7.6% shares respectively secured twelve months before.

Synopsis - Industry Overview

The purpose of the Industry Overview series of indicators is to track changes in grain production, the structure of the industry itself and the infrastructure comprising the GHTS. Changes in these areas can have a significant influence on the efficiency. effectiveness and competitiveness of the GHTS as a whole. They may also be catalysts that shift traditional traffic patterns, the demand for particular services, and the utilization of assets.

Highlights - Third Quarter 2009-10 Crop Year

Grain Production and Supply

- Grain production decreased by 7.0% to 56.1 million tonnes.
 - o Consistent with normal crop production under the Grain Monitoring Program.
- Carry forward stocks increased by 68.5% to 9.5 million tonnes.
 - o Increase prompted by heightened grain production in the 2008-09 crop year.
- Overall grain supply decreased by 0.5% to 65.7 million tonnes.

Railway Traffic

- Railway tonnage for the first nine months increased 4.7% to 20.4 million tonnes.
 - o Largely reflected heightened export demand for CWB grains.
- Mixed record on traffic moving to western Canadian ports in the first nine months.
 - o Vancouver up by 11.9% to 12.9 million tonnes.
 - o Thunder Bay down by 11.4% to 3.7 million tonnes.
 - o Prince Rupert down by 1.0% to 3.4 million tonnes.
 - o Churchill up by 13.5% to 0.4 million tonnes.

Country Elevator Infrastructure

- Moderate reductions recorded during the first three guarters.
 - o Grain delivery points decreased by 0.7% to 270.
 - Number of country elevators decreased by 1.1% to 362.
- Elevator storage capacity increased by 3.8% to 6.3 million tonnes.
- Elevators capable of loading in blocks of 25 or more cars decreased by 0.4% to 242.
 - Accounted for 66.9% of total elevators.
 - Accounted for 90.0% of total storage capacity.
- Elevators capable of loading in blocks of 50 or more cars increased by four to 189.
 - Accounted for 52.2% of total elevators.
 - Accounted for 82.0% of total storage capacity.

Railway Infrastructure

- Western Canadian rail network remained unchanged at 17,904.7 route-miles.
- Okanagan Valley Railway suspends shortline operations in September 2009.
- CN transferred 84.5 route-miles of its Saskatchewan infrastructure to new shortline, Last Mountain Railway.
 - o Commenced operations between Davidson and Regina in October 2009.
- Discontinuance plans for some 830 route-miles of CN and CP infrastructure remain.

Terminal Elevator Infrastructure

- Licensed GHTS terminal elevators remained unchanged at 15.
 - Licensed storage capacity remained unchanged at 2.5 million tonnes.
- Terminal elevator unloads for the first nine months decreased by 0.5% to 209,172 carloads.

Indicator Series 1 - Industry Overview

										2009-10			
Table	Indicator Description	Notes		1999-00	2006-07	2007-08	2008-09	Q1	Q2	Q3	YTD (1)	% VAR	
	Production and Supply [Subseries 1A]												
1A-1	Crop Production (000 tonnes)	(1)	_	55,141.7	49,264.6	48,517.3	60,351.7	56,144.2	-	- '	56,144.2	-7.0%	
1A-2	Carry Forward Stock (000 tonnes)	(1)		7,418.2	12,424.7	7,450.6	5,646.6	9,515.3	-	-	9,515.3	68.5%	
	Grain Supply (000 tonnes)	(1)		62,559.9	61,689.3	55,967.9	65,998.3	65,659.5	-	-	65,659.5	-0.5%	
1A-3	Crop Production (000 tonnes) – Special Crops	(1)		3,936.7	3,938.1	4,404.3	5,157.4	5,573.7	-	-	5,573.7	8.1%	Ā
	Rail Traffic [Subseries 1B]												
1B-1	Railway Grain Volumes (000 tonnes) – Origin Province	(1)	_										4
1B-2	Railway Grain Volumes (000 tonnes) – Primary Commodities	(1)		26.440.8	24.311.7	22.766.5	27.338.4	7.288.2	6.384.2	6.719.9	20.392.3	4.7%	1 4
1B-3	Railway Grain Volumes (000 tonnes) – Detailed Breakdown	(1)			2.,0	22,7 00.0	21,000.1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0,002	0,1 10.0			11
1B-4	Railway Grain Volumes (000 tonnes) – Special Crops	(1)		2,103.4	2,344.3	2,481.0	2,645.4	722.3	687.6	602.0	2,011.9	-13.5%	1
	Country Elevator Infrastructure [Subseries 1C]												
IC-1	Grain Delivery Points (number)	(2)	_	626	272	276	272	270	271	270		-0.7%	_
C-1	Grain Elevator Storage Capacity (000 tonnes)	(2)		7,443.9	5,808.2	5,952.5	6,059.0	6,133.1	6,239.4	6,290.8		3.8%	4
IC-1	Grain Elevators (number) – Province	(2)				07-	000	0.55		0.55			4.
C-2	Grain Elevators (number) – Railway Class	(2)		917	371	378	366	359	360	362		-1.1%	
C-3	Grain Elevators (number) – Grain Company	(2)	۲.										
C-4	Grain Elevators Capable of Multiple Car Loading (number) – Province	(2)											4
C-5	Grain Elevators Capable of Multiple Car Loading (number) – Railway Class	(2)	\vdash	317	240	243	243	241	242	242		-0.4%	
C-6	Grain Elevators Capable of Multiple Car Loading (number) – Railway Line Class	(2)	ر ا										4
C-7	Grain Elevator Openings (number) – Province	(2)										***************************************	4
C-8	Grain Elevator Openings (number) – Railway Class	(2)		43	48	10	18	9	13	16		-11.1%	
C-9	Grain Elevator Openings (number) – Railway Line Class	(2)	ر.										4
C-10	Grain Elevator Closures (number) – Province	(2)										***************************************	
C-11	Grain Elevator Closures (number) – Railway Class	(2)	_ >	130	51_	3	30	16	19	20		-33.3%	
1C-12	Grain Elevator Closures (number) – Railway Line Class	(2)										***************************************	
IC-13	Grain Delivery Points (number) – Accounting for 80% of Deliveries	(2)(3)	-	217	97	91	89	n/a	n/a	n/a		n/a	-
	Delburg Infrastructure (Outcombe 4D)												
10.4	Railway Infrastructure [Subseries 1D]	(2)	_	4.070.0	4 4 2 7 7	2.050.0	2 504 6	2 504 0	2.504.0	2.504.2		0.004	-
D-1 D-1	Railway Infrastructure (route-miles) – Grain-Dependent Network	(2)	-	4,876.6	4,137.7	3,658.8	3,591.6	3,591.6	3,591.6	3,591.6		0.0%	
D-1 D-1	Railway Infrastructure (route-miles) – Non-Grain-Dependent Network	(2)		14,513.5 19,390.1	14,357.6 18,495.3	14,319.2	14,313.1 17,904.7	14,313.1 17,904.7	14,313.1 17,904.7	14,313.1 17,904.7		0.0%	
	Railway Infrastructure (route-miles) – Total Network	(2)				17,978.0					0.000.0	0.0%	-
D-2	Railway Grain Volumes (000 tonnes) – Grain-Dependent Network	(1)		8,686.5	6,988.8	6,648.9	7,586.4	2,281.0	1,956.8	1,996.1	6,233.9	16.6%	-
D-2	Railway Grain Volumes (000 tonnes) – Non-Grain-Dependent Network	(1)		16,975.8	16,748.1	15,435.1	19,173.6	4,787.5	4,199.4	4,399.0	13,385.9	-2.3%	
D-2	Railway Grain Volumes (000 tonnes) – Total Network	(1)		25,662.3	23,736.9	22,084.0	26,760.0	7,068.5	6,156.2	6,395.0	19,619.8	3.0%	
D-3	Shortline Railway Infrastructure (route-miles)	(2)		3,043.0	2,023.2	1,870.7	1,987.0	2,071.5	2,071.5	2,071.5		4.3%	
D-3	Shortline Railway Grain Volumes (000 tonnes)	(1)		2,090.5	1,059.1	578.3	761.5	189.6	157.6	222.6	569.8	10.1%	_
D-5	Railway Grain Volumes (000 tonnes) – Class 1 Carriers	(1)		23,571.8	22,677.8	21,505.7	25,998.5	6,878.9	5,998.6	6,172.4	19,049.9	2.8%	_
D-5	Railway Grain Volumes (000 tonnes) – Class 2 and 3 Carriers	(1)		2,090.5	1,059.1	578.3	761.5	189.6	157.6	222.6	569.8	10.1%	
D-6	Grain Elevators (number) – Grain-Dependent Network	(2)		371	117	117	113	115	116	116		2.7%	1
D-6	Grain Elevators (number) – Non-Grain-Dependent Network	(2)		513	238	240	234	226	226	228		-2.6%	_
D-6	Grain Elevator Storage Capacity (000 tonnes) – Grain-Dependent Network	(2)	_	2,475.4	1,575.6	1,593.9	1,611.1	1,662.3	1,713.9	1,715.5		6.5%	\perp
D-6	Grain Elevator Storage Capacity (000 tonnes) – Non-Grain-Dependent Network	(2)		4,847.6	4,169.0	4,274.7	4,370.8	4,398.3	4,448.2	4,497.5		2.9%	
	Terminal Elevator Infrastructure												
E-1	Terminal Elevators (number)	(2)		15	16	15	15	15	15	15		0.0%	1
E-1	Terminal Elevator Storage Capacity (000 tonnes)	(2)		2,678.6	2,642.6	2,475.6	2,475.6	2,475.6	2.475.6	2.475.6		0.0%	-
L_11		(1)		2,676.6	261,204	245,213	294,335		66,422			-0.5%	_
1E-2	Terminal Elevator Unloads (number) – Covered Hopper Cars							74,059		68,691	209,172		

^{(1) –} Year-To-Date values are reported for volume-related indicators only (i.e., Railway Grain Volumes). The accompanying percentage variance denotes the relative change in the current YTD value compared to the same period a year earlier.

(2) – Quarterly values for non-volume-related indicators (i.e., Grain Delivery Points) are "as at" the end of the reporting period. The accompanying percentage variance denotes the relative change in the value of the most recent reporting period compared to that at the end of the preceding crop year.

(3) – Statistics relating to grain deliveries by station, as produced by the Canadian Grain Commission, are generally produced a full six months after the close of the crop year. The most recent statistics available are those from the 2008-09 crop year.

Synopsis - Commercial Relations

One of the objectives of the government's regulatory reforms was to provide the GHTS with a more commercial orientation. To this end. a cornerstone element in the reforms was the introduction, and gradual expansion of tendering for Canadian Wheat Board (CWB) grain shipments to Western Canadian ports. For the 2008-09 crop year, the CWB has once again committed itself to moving 40% of its grain shipments under a new program that combines tendering as well as advance car awards.

The government also expects that industry stakeholders will forge new commercial processes that will ultimately lead to improved accountability. The purpose of this monitoring element is twofold: to track and assess the impact of the CWB's tendering practices as well as the accompanying changes in the commercial relations existing between the various stakeholders within the grain industry.

Highlights - Third Quarter 2009-10 Crop Year

Tendering Program

- 188 tender calls were issued by the CWB during the first nine months of the 2009-10 crop year.
 - Calls for the movement of 2.0 million tonnes to export positions in western Canada.
 - Prince Rupert delivery 42.7%; Vancouver 36.1%; Thunder Bay 21.2%; and Churchill 0.0%.
- 681 bids received; offered an aggregated 4.4 million tonnes.
 - o Response rates more intense than in the 2008-09 crop year.
 - Strongest response rates tied to durum and Thunder Bay tender calls.
- 284 contracts concluded for the movement of 2.0 million tonnes.
 - Vancouver delivery 50.7%; Prince Rupert 29.7%; Thunder Bay 19.6%; and Churchill 0.0%.
 - Represented 18.4% of volume shipped by CWB to port positions in Western Canada.
 - Tenders for 19.6% of the tonnage called either partially, or not at all, filled.
 - o 194,700 tonnes not required.
 - 110.900 tonnes no bid.
 - o 36,700 tonnes unacceptable price.
 - o 35,400 tonnes insufficient quantity bid.
 - o 12,000 tonnes noncompliance with specifications.
 - Proportion of tendered grain volume moving in multiple car blocks increased marginally to 92.8%.
 - o Proportion moving in blocks of 50 or more cars increased to 72.9% from 61.9% in the 2008-09 crop year.
- Proportion of tendered grain volume originating at high-throughput elevators increased to 97.9%.
 - o Marginally greater than the 97.7% observed in the 2008-09 crop year.

Other Commercial Developments

- First three quarters sees the emergence of several significant issues relating to market access for Canadian grain.
 - European Union embargoes Canadian imports of flasseed.
 - Follows discovery of processed goods containing a genetically modified variety known as Triffid.
 - Canadian industry moves to develop protocol for the sampling, testing and documentation of future shipments.
 - Discovery of salmonella-contaminated canola meal shipments from Canada leads the United States to impose stricter testing on all cross-border railcar movements.
 - Six Canadian crushers placed on US "import alert list."
 - Canadian crushers forced to curtail production while seeking alternative markets.
 - China demands that Canadian canola shipments be certified as "black-leg free."
 - Extends from the view that the Canadian strain is more virulent than the Chinese pathogen.
- CN moves to close 53 producer-car loading sites in September 2009.
 - Prompts a widespread backlash from a number of affected communities and producer groups.
 - o CN responds by agreeing to delay immediate closure plans.
 - All 53 sites are closed by the end of the third quarter.
- Complaints about railway service diminish as improvements noted.
 - o CTA finds that CN did not breach its level-of-service obligations to Western Grain Trade Ltd.
- Federally-appointed panel moves forward with the second phase of the government's review of rail freight service.

Indicator Series 2 – Commercial Relations

Table	Indicator Description	Notes	1999-00	2006-07	2007-08	2008-09	Q1	Q2	2009-10 Q3	YTD (1)	% VAR
i abie	indicator Description	Notes	1999-00	2006-07	2007-08	2008-09	Q1	Q2	Q3	Y I U (1)	% VAR
	Tendering Program [Subseries 2A]										
A-1	Tenders Called (000 tonnes) – Grain	(1) }-	n/a	3.765.1	1.891.2	3.416.2	678.3	716.6	592.9	1.987.8	-20.6%
A-2	Tenders Called (000 tonnes) – Grade	(1)			.,						
A-3	Tender Bids (000 tonnes) – Grain	(1)	n/a	6,753.6	4,396.7	5.622.1	1.384.4	1.322.5	1.683.9	4.390.8	-9.4%
A-4	Tender Bids (000 tonnes) – Grade	(1)		0,100.0	1,000.1	0,022	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1,022.0	1,000.0	.,000.0	0.170
A-5	Total CWB Movements (000 tonnes)	(1)(2)	n/a	14,932.2	13,332.3	15,612.8	4,181.7	3.384.7	3,258.6	10,825.0	4.0%
2A-5	Tendered Movements (%) – Proportion of Total CWB Movements	(1)(2)	n/a	17.8%	14.3%	14.4%	13.9%	23.0%	19.3%	18.4%	-4.2%
2A-5	Tendered Movements (000 tonnes) – Grain	(1)(2)	n/a	2.651.6	1.900.0	2.246.6	580.9	780.0	629.9	1.990.8	-0.4%
2A-6	Tendered Movements (000 tonnes) – Grade	(1)(2)			.,						
2A-7	Unfilled Tender Volumes (000 tonnes)	(1)	n/a	1.276.6	207.9	1.445.3	177.0	193.0	19.6	389.6	-48.7%
2A-8	Tendered Movements (000 tonnes) – Not Awarded to Lowest Bidder	(1)	n/a	46.3	18.7	4.9	0.0	0.0	0.0	0.0	-100.0%
2A-9	Tendered Movements (000 tonnes) – FOB	(1)(2)	n/a	152.8	65.1	284.9	67.8	242.9	31.9	342.7	34.7%
2A-9	Tendered Movements (000 tonnes) – In-Store	(1)	n/a	2,651.6	1,835.0	1,961.7	513.0	537.1	598.0	1,648.1	-5.5%
A-10	Distribution of Tendered Movements – Port	(3)				·					
2A-11	Distribution of Tendered Movements - Railway	(3)									
2A-12	Distribution of Tendered Movements – Multiple-Car Blocks	(3)									
2A-13	Distribution of Tendered Movements – Penalties	(3)	-								
2A-14	Distribution of Tendered Movements – Province / Elevator Class	(3)									
A-15	Distribution of Tendered Movements – Month	(3)									
2A-16	Distribution of Tender Delivery Points (number) – Contracted Cars	(3)	-								
2A-17	Average Tendered Multiple-Car Block Size (railcars) – Port		n/a	64.7	57.5	59.7	61.4	65.1	72.3	66.6	8.8%
2A-18	Railway Car Cycle (days) – Tendered Grain		n/a	14.7	13.9	11.8	10.3	11.2	11.4	11.0	-6.8%
2A-18	Railway Car Cycle (days) – Non-Tendered Grain		n/a	16.4	15.2	13.0	13.0	13.6	12.5	13.0	-5.1%
2A-19	Maximum Accepted Tender Bid (\$ per tonne) – Wheat		n/a	-\$24.51	-\$23.78	-\$23.01	-\$21.28	-\$18.37	-\$15.62	-\$21.28	-7.5%
2A-19	Maximum Accepted Tender Bid (\$ per tonne) – Durum		n/a	-\$21.56	-\$10.52	-\$14.95	-\$21.13	-\$21.76	-\$23.56	-\$23.56	57.6%
2A-20	Market Share (%) – CWB Grains – Major Grain Companies		n/a	75.6%	74.3%	72.9%	76.3%	73.0%	73.4%	74.2%	1.8%
2A-20	Market Share (%) – CWB Grains – Non-Major Grain Companies		n/a	24.4%	25.7%	27.1%	23.7%	27.0%	26.6%	25.8%	-4.8%
	Advance Car Awards Program [Subseries 2B]										
2B-1	Advance Award Movements (%) – Proportion of Total CWB Movements		n/a	15.8%	13.7%	12.1%	8.3%	10.6%	11.0%	9.9%	-13.9%
2B-1	Advance Award Movements (000 tonnes) – Grain		n/a	2.362.9	1.831.0	1.896.5	348.7	360.1	358.6	1.067.4	-11.1%
2B-2	Distribution of Advance Award Movements – Port	(4)	11/a	2,302.9	1,001.0	1,080.0	340.7	300.1	330.0	1,007.4	-11.170
B-3	Distribution of Advance Award Movements – Railway	(4)									
2B-4	Distribution of Advance Award Movements – Province / Elevator Class	(4)									
2B-4 2B-5	Distribution of Advance Award Movements – Province / Elevator Class Distribution of Advance Award Movements – Month	(4)									
	Railway Car Cycle (days) – Advance Award Grain	(4)	n/a	15.1	14.4	12.2	11.1	13.1	12.5	12.3	-1.6%
			11/a	10.1	14.4	12.2	11.1	13.1	12.5	12.3	-1.0%
2B-6		(4)									
	Distribution of Advance Award Movements – Multiple-Car Blocks Weighted Average Tendered and Advance Award Multiple-Car Block Size	(4)	n/a	53.9	52.0	52.5	54.3	58.6	62.3	58.5	7.5%

^{(1) —} Year-To-Date values are reported for volume-related indicators only (i.e., Tenders Called). The accompanying percentage variance denotes the relative change in the current YTD value compared to the same period a year earlier. Significant variances may be observed as a result of a change in the Canadian Wheat Board's tendering commitment.

^{(2) -} Includes tendered malting barley volumes.

^{(3) –} Indicators 2A-10 through 2A-16 examine tendered movements along a series of different dimensions. This examination is intended to provide greater insight into the movements themselves, and cannot be depicted within the summary framework presented here. The reader is encouraged to consult the corresponding data table directly.

^{(4) –} Indicators 2B-2 through 2B-5, as well as 2B-7, examine advance car awards movements along a series of different dimensions. This examination is intended to provide greater insight into the movements themselves, and cannot be depicted within the summary framework presented here. The reader is encouraged to consult the corresponding data table directly.

Synopsis – System Efficiency

One of the chief aims in the government's decision to move the GHTS towards a more commercial orientation was to improve overall system efficiency. This stems from the belief that a more efficient system will ultimately enhance the competitiveness of Canadian grain in international markets to the benefit of all stakeholders.

The indicators presented here are intended to examine the relative change in the efficiency of the GHTS. A preceding chapter - Industry Overview - addressed changes observed in the basic components of the GHTS (country elevators, railways, and terminal elevators). In comparison, the following series of indicators largely concentrates on how these assets are utilized, and the overall time it takes grain to move through the system.

Highlights - Third Quarter 2009-10 Crop Year

Trucking

- Composite Freight Rate Index for short-haul trucking remained unchanged at 132.2 for the first three quarters.
 - Demand for carrying capacity continued to help sustain rates.

Country Elevators

- Throughput for the first nine months decreased by 4.4% to 25.1 million tonnes.
 - Largely reflects weaker demand for non-CWB grains.
- Average elevator capacity turnover ratio for the first nine months decreased by 7.0% to 4.6 turns.
 - o Reflected impact of reduced volume as well as increased storage capacity.
- Average inventory level increased by 9.3% to 3.0 million tonnes.
- Average number of days-in-store increased by 13.8% to 33.0 days.
- Average weekly stock-to-shipment ratio increased by 12.2% to 4.6 for the first nine months.
- Average posted tariff rates increased in the first nine months.
 - Elevation up by 0.6%.
 - o Dockage removal up by 3.5%.
 - o Storage up by 5.4%.

Rail Operations

- Average car cycle decreased by 6.3% to 13.1 days during the first nine months of the crop year.
 - o Similar reductions in underlying empty and loaded movements.
 - Average empty movement decreased 6.9% to 6.5 days.
 - Average loaded movement decreased 5.8% to 6.7 days.
- Proportion of grain moving under incentive programs increased to 79.4% from 78.9% for the 2008-09 crop year.
- Railway incentive payments estimated to have increased by 13.3% to \$104.6 million in the first nine months.
 - Reflected previous crop year's escalation of applicable per-tonne discounts.
 - Single car freight rates show more signs of differentiation in the 2009-10 crop year.
 - CP adjusted most of its rates in the second quarter.
 - Net reductions: Vancouver down by 1.2%: Thunder Bay down by 6.0%.
 - CN made significant changes to its prevailing rate structure throughout the first three quarters.
 - Westbound reductions: Vancouver down by 11.5%; Prince Rupert down by 5.9%.
 - Eastbound reductions: Thunder Bay down by 2.9%; Churchill down by 14.4%.

Terminal Elevators and Port Performance

- Terminal throughput increased by 1.7% to 18.5 million tonnes.
- 584 vessels loaded at western Canadian ports during the first nine months of the crop year.
 - Average time in port increased 30.6% to 6.4 days.
 - Largely related to delays occasioned by inclement west-coast weather.
- Average posted tariff rates increased in the first nine months.
 - o Elevation up by 1.2%.
 - Storage up by 1.9%.

Indicator Series 3 - System Efficiency

			1000.05			2222 22			2009-10	\((1)	0/ 1/45	
Table	Indicator Description	Notes	1999-00	2006-07	2007-08	2008-09	Q1	Q2	Q3	YTD (1)	% VAR	
	Trucking [Subseries 3A]											L
3A-1	Composite Freight Rate Index – Short-haul Trucking	(2)	100.0	123.2	125.5	132.2	132.2	132.2	132.2		0.0%	-
	Primary Country Elevators [Subseries 3B]											١,
B-1	Grain Volume Throughput (000 tonnes)	(1)	32,493.9	33,452.6	31,886.4	35,349.1	8,246.5	8,064.1	8,813.1	25,123.7	-4.4%	-
B-2	Average Elevator Capacity Turnover Ratio	(1)	4.8	6.5	6.0	6.6	1.5	1.5	1.6	4.6	-7.0%	-
B-3	Average Weekly Elevator Stock Level (000 tonnes)	(1)	3,699.3	2,814.7	2,705.5	2,686.7	2,830.4	3,038.0	3,177.7	3,014.7	9.3%	-
B-4	Average Days-in-Store (days)	(1)	41.7	30.7	31.1	27.7	31.9	34.3	32.8	33.0	13.8%	-
B-5	Average Weekly Stock-to-Shipment Ratio – Grain Average Handling Charges – Country Delivery Points	(1)	6.2	4.5	4.5	3.9	4.5	4.6	4.8	4.6	12.2%	Ł
3B-6	Average Handling Charges – Country Delivery Points	(3)										4
												4
	Rail Operations [Subseries 3C]											4
BC-1	Hopper Car Grain Volumes (000 tonnes) – Province	(1)										
C-2	Hopper Car Grain Volumes (000 tonnes) – Primary Commodities	(1)	25,662.3	23,736.9	22,084.0	26,760.0	7,068.5	6,156.2	6,395.0	19,619.8	3.0%	Τ
C-3	Hopper Car Grain Volumes (000 tonnes) – Detailed Breakdown	(1)										1
C-4	Railway Car Cycle (days) – Empty Movement	(1)	10.7	8.7	7.9	6.6	6.4	6.7	6.2	6.5	-6.9%	Τ
C-4	Railway Car Cycle (days) – Loaded Movement	(1)	9.2	8.2	8.0	6.8	6.1	7.1	6.8	6.7	-5.8%	Î
C-4	Railway Car Cycle (days) – Total Movement	(1)	19.9	16.8	15.9	13.4	12.5	13.9	13.0	13.1	-6.3%	1
C-5	Railway Car Cycle (days) – Non-Special Crops	(1)	19.3	16.6	15.7	13.3	12.4	13.6	12.8	12.9	-6.7%	Ī
C-6	Railway Car Cycle (days) – Special Crops	(1)	25.8	20.0	18.1	15.6	14.4	17.1	14.9	15.5	-1.5%	Ï
C-7	Railway Car Connections (days)	(1)(3)										1
C-8	Hopper Car Grain Volumes (000 tonnes) – Non-Incentive	(1)	12,716.9	5,888.5	5,149.5	5,650.4	1,930.1	1,064.8	1,037.2	4,032.0	0.4%	1
C-8	Hopper Car Grain Volumes (000 tonnes) – Incentive	(1)	12,945.5	17,848.4	16,934.5	21,109.6	5,138.4	5,091.5	5,357.9	15,587.7	3.7%	
C-9	Hopper Car Grain Volumes (\$ millions) – Incentive Discount Value	(1)	\$31.1	\$96.5	\$93.3	\$132.0	\$34.2	\$34.4	\$36.0	\$104.6	13.3%	
C-10	Traffic Density (tonnes per route mile) – Grain-Dependent Network	(1)	442.5	418.0	427.5	526.5	635.1	544.8	555.8	578.6	17.1%	ļ
C-10	Traffic Density (tonnes per route mile) – Non-Grain-Dependent Network	(1)	292.4	291.5	269.3	334.8	334.5	293.4	307.3	311.7	-2.2%	
C-10	Traffic Density (tonnes per route mile) – Total Network	(1)	330.3	320.1	303.1	373.4	394.8	343.8	357.2	365.3	3.1%	J
C-11	Composite Freight Rates (\$ per tonne) – Rail	(2)(3)										4
BC-12	Multiple-Car Shipment Incentives (\$ per tonne) – Rail	(2)(3)										4
C-13	Effective Freight Rates (\$ per tonne) – CTA Revenue Cap	(2)(4)	n/a	\$29.88	\$30.45	\$30.92	n/a	n/a	n/a		n/a	J
												1
	Terminal Elevator and Port Performance [Subseries 3D]											4
D-1	Annual Port Throughput (000 tonnes) – Grain	(1)	23.555.5	22.823.9	22.026.4	25.639.0	6.457.0	5.971.5	6,084.3	18.512.8	1.7%	ł
D-1 D-2	Average Terminal Elevator Capacity Turnover Ratio	(1)(5)	9.1	8.3	8.5	10.0	0,457.0 n/a	n/a	0,004.5 n/a	10,512.0	n/a	4
D-2 D-3	Average Weekly Terminal Elevator Stock Level (000 tonnes)	(1)	1,216.2	1,385.3	1,432.7	1,346.4	1,240.2	1.325.7	1.366.1	1.310.3	-4.0%	1
D-3 D-4	Average Days-in-Store – Operating Season (days)	(1)	1,210.2	19.2	21.0	16.7	18.1	22.3	1,300.1	1,510.5	-3.4%	1
BD-5	Average Weekly Stock-to-Shipment Ratio – Grain	(1)(3)	10.0	10.2	21.0		10.1	22.0	10.2	10.0	J. 7,0	ı
3D-6	Average Weekly Stock-to-Shipment Ratio – Grade	(1)(3)										1
BD-7	Average Vessel Time in Port (days)	(1)	4.3	5.3	5.0	4.6	5.3	7.2	6.7	6.4	30.6%	Ť
3D-8	Distribution of Vessel Time in Port	(1)(3)	7.0	0.0	0.0	7.0	0.5	7.2	5.7	0.4	00.070	t
3D-9	Distribution of Berths per Vessel	(1)(3)										1
3D-10	Annual Demurrage Costs (\$millions)	(5)	\$7.6	\$15.1	\$23.3	\$11.2	n/a	n/a	n/a		n/a	1
3D-10	Annual Dispatch Earnings (\$millions)	(5)	\$14.5	\$24.6	\$29.3	\$37.6	n/a	n/a	n/a		n/a	Ť

^{(1) -} Year-To-Date values are reported for volume-related indicators only (i.e., Grain Volume Throughput). The accompanying percentage variance denotes the relative change in the current YTD value compared to the same period a year earlier.

^{(2) -} Quarterly values for non-volume-related indicators (i.e., Composite Freight Rate Index) are "as at" the end of the reporting period. The accompanying percentage variance denotes the relative change in the value of the most recent reporting period compared to that at the end of the preceding crop year.

(3) – Changes in the indicator cited cannot be depicted within the summary framework presented here. The reader is encouraged to consult the corresponding data table directly.

(4) – Statistics relating to effective railway freight rates, as determined by the Canadian Transportation Agency, are generally produced about six months after the close of the crop year. The most recent statistics available are those from the 2008-09 crop year.

^{(5) -} The GMP provides for the calculation of this indicator on an annual basis. Quarterly values are not available.

Synopsis – Service Reliability

The true test of any logistics chain is its ability to provide for the timely delivery of product, as it is needed whether it is raw materials. semi-processed goods, component parts, or finished products. This applies to both industrial and consumer products, and is summarized by a widely used colloquialism within the logistics industry: "to deliver the right product, to the right customer, at the right time." The indicators that follow are largely used to determine whether grain is indeed moving through the system in a timely manner, and whether the right grain is in stock at port when a vessel calls for loading.

Highlights - Third Quarter 2009-10 Crop Year

Port Performance

- Average weekly stock-to-vessel-requirements ratios moved largely lower in the first nine months of the 2009-10 crop year.
 - Vancouver
 - Wheat 2.4 for the first nine months of the 2009-10 crop year, down by 29.6%.
 - Canola 1.7, down by 7.1%.
 - Thunder Bay
 - Wheat 6.1 for the first nine months of the 2009-10 crop year, up by 15.6%.
 - Canola 4.1, down by 19.1%.
 - o Reflects strong movement but suggests that grain inventories were largely sufficient to meet short-term demand.
 - Shortages of specific grains and grade, especially canola, proved more prevalent.
- Average stock-to-shipment ratios provide similar evidence of the ability of these ports to meet short-term demand.
 - Vancouver

Thunder Bay

- CWB grains 2.7 for the first nine months of the 2009-10 crop year, down by 15.4%.
- Non-CWB grains 2.0, down by 22.3%.
- - CWB grains 5.1 for the first nine months of the 2009-10 crop year; down by 5.6%.
 - Non-CWB grains 5.7, up by 35.4%.

Indicator Series 4 - Service Reliability

							2009-10						
Table	Indicator Description	Notes	1999-00	2006-07	2007-08	2008-09	Q1	Q2	Q3	YTD (1)	% VAR		
	Port Performance [Subseries 4A]											1	
4A-1	Avg. Weekly Stock-to-Vessel Requirements Ratio – VCR – Wheat	(1)	3.1	3.3	3.6	3.2	2.1	2.6	2.5	2.4	-29.6%	▼	
4A-1	Avg. Weekly Stock-to-Vessel Requirements Ratio – VCR – Canola	(1)	2.5	2.8	3.7	1.5	0.5	2.8	1.6	1.7	-7.1%	▼	
4A-1	Avg. Weekly Stock-to-Vessel Requirements Ratio – TBY – Wheat	(1)	5.6	7.0	5.0	4.5	8.0	4.4	4.2	6.1	15.6%	A	
4A-1	Avg. Weekly Stock-to-Vessel Requirements Ratio – TBY – Canola	(1)	2.8	5.3	8.3	5.5	2.3	4.9	5.8	4.1	-19.1%	•	
4A-2	Avg. Weekly Stock-to-Vessel Requirements Ratio – Grade	(1)(2)											
4A-3	Avg. Weekly Stock-to-Shipment Ratio – VCR – CWB Grains	(1)	3.5	2.9	2.9	3.1	2.5	2.4	3.1	2.7	-15.4%	₩	
4A-3	Avg. Weekly Stock-to-Shipment Ratio – VCR – Non-CWB Grains	(1)	3.6	3.6	3.6	2.5	1.4	2.5	2.0	2.0	-22.3%	▼	
4A-3	Avg. Weekly Stock-to-Shipment Ratio – TBY – CWB Grains	(1)	4.6	6.2	5.2	4.6	5.1	5.1	5.0	5.1	-5.6%	•	
4A-3	Avg. Weekly Stock-to-Shipment Ratio – TBY – Non-CWB Grains	(1)	3.3	4.4	5.7	4.2	5.5	6.2	5.1	5.7	35.4%		
4A-4	Terminal Handling Revenue (\$millions) – Vancouver	(1)(3)	\$192.7	\$202.9	\$238.7	\$284.8	n/a	n/a	n/a		n/a	_	
4A-4	Terminal Handling Revenue (\$millions) – Thunder Bay	(1)(3)	\$82.1	\$83.5	\$81.2	\$84.4	n/a	n/a	n/a		n/a	_	
4A-4	CWB Carrying Costs (\$millions) – Pacific Seaboard	(1)(3)	\$63.3	\$93.9	\$77.4	\$124.9	n/a	n/a	n/a		n/a	_	
4A-4	CWB Carrying Costs (\$millions) – Thunder Bay	(1)(3)	\$31.3	\$35.9	\$37.6	\$45.2	n/a	n/a	n/a		n/a	l –	

^{(1) -} Year-To-Date values are reported for volume-related indicators only (i.e., Average Weekly Stock-to-Vessel Requirements Ratio). The accompanying percentage variance denotes the relative change in the current YTD value compared to the same period a year earlier.

(2) — Changes in the indicator cited cannot be depicted within the summary framework presented here. The reader is encouraged to consult the corresponding data table directly.

(3) — The GMP provides for the calculation of this indicator on an annual basis. Quarterly values are not available.

Synopsis – Producer Impact

One of the key objectives of the GMP rests in determining the producer impacts that stem from changes in the GHTS. The principal measure in this regard is the producer netback - an estimation of the financial return to producers after deduction of the "export basis." The methodology employed in calculating these measures was developed following an extensive study conducted as a Supplemental Work Item under the GMP. and approved for incorporation into the mainstream indicators of the GMP by Transport Canada and Agriculture and Agri-Food Canada.

Highlights - Third Quarter 2009-10 Crop Year

Export Basis and Producer Netback - CWB Grains

- Changes in the CWB's Pool Return Outlook (PRO) for 1 CWRS wheat:
 - o Farmer's initial payment set at \$186.30 per tonne.
 - Represented a 40.2% decrease from the final realized price for the 2008-09 crop year of \$311.36 per tonne.
 - PRO decreased to \$238.00 per tonne by the end of the third quarter.
 - Represented a 27.8% premium to the farmer's initial payment.
 - Price declined largely as a result of increased global supplies because of weaker overall demand.
- Recent changes in input costs:
 - Country elevator handling up by an average of 0.6% for elevation; 3.5% for cleaning.
 - Storage charges increased by an average 5.4%.
 - Rail transportation Largely reduced in the second and third quarters owing to seasonal pricing considerations.
 - Rates to Vancouver net reductions of 11.5% for CN and 1.2% for CP.
 - Rates to Thunder Bay net reductions of 2.9% for CN and 6.0% for CP.
 - Significant restructuring of CN rates appeared tied to geographic considerations.
 - Terminal elevator handling up by an average of 1.2% for elevation; 1.9% for storage.
- While changes in the PRO for 1 CWRS wheat, and input costs to the export basis, suggest a reduction in the producer's per-tonne netback for CWB grains in the 2009-10 crop year, these returns are expected to remain above historical standards.

Export Basis and Producer Netback - Non-CWB Commodities

- Changes in Vancouver cash price for 1 Canada canola:
 - o Price fell to an average of \$423.27 per tonne by the end of the third quarter.
 - Represented a 9.0% decrease from the 2008-09 crop year's monthly average of \$465.22 per tonne.
 - Price declined in response to expectations of ample supplies and the uncertainty surrounding Canadian exports.
- Recent changes in input costs:
 - Country elevator handling up by an average of 0.6% for elevation; 3.5% for cleaning.
 - Storage charges increased by an average 5.4%.
 - Rail transportation Largely reduced in the second and third quarters owing to seasonal pricing considerations.
 - Rates to Vancouver net reductions of 11.5% for CN and 1.2% for CP.
 - Rates to Thunder Bay net reductions of 2.9% for CN and 6.0% for CP.
 - Significant restructuring of CN rates appeared tied to geographic considerations.
 - Terminal elevator handling up by an average of 1.2% for elevation; 1.9% for storage.
- While changes in the price of 1 Canada canola, and input costs to the export basis, suggest a reduction in the producer's per-tonne netback for non-CWB commodities in the 2009-10 crop year, these returns are expected to remain above historical standards.

Producer-Car Loading

- Number of producer-car-loading sites declined by 12.6% to 382.
 - Largely resulted from the closure of 53 sites local to CN.
- Producer-car shipments decreased by 4.4% to 8,632 railcars in the first nine months.

Indicator Series 5 – Producer Impact

									2009-10			
Table	Indicator Description	Notes	1999-00	2006-07	2007-08	2008-09	Q1	Q2	Q3	YTD (1)	% VAR	
	Export Basis											1
	Western Canada										······	1
5A-10	CWRS Wheat (\$ per tonne)	(1)(3)	\$54.58	\$63.20	\$67.65	\$66.74						1
5A-10	CWA Durum (\$ per tonne)	(1)(3)	\$67.63	\$76.18	\$84.44	\$87.57						4
5A-10	1 Canada Canola (\$ per tonne)	(1)(3)	\$52.51	\$45.80	\$53.47	\$48.63						1
5A-10	Canadian Large Yellow Peas – No. 2 or Better (\$ per tonne)	(1)(3)	\$54.76	\$62.17	\$85.51	\$101.57						1
	Producer-Car Loading											
5B-1	Producer-Car-Loading Sites (number) – Class 1 Carriers	(2)	415	368	346	333	293	293	278		-16.5%	▮
5B-1	Producer-Car-Loading Sites (number) – Class 2 and 3 Carriers	(2)	122	106	108	104	104	104	104		0.0%	-
5B-1	Producer-Car-Loading Sites (number) – All Carriers	(2)	537	474	454	437	397	397	382		-12.6%	▮
5B-2	Producer-Car Shipments (number) – Covered Hopper Cars	(1)	3,441	12,529	10,729	13,243	2,123	3,158	3,351	8,632	-4.4%	
												41'''

^{(1) —} Year-To-Date values are reported for volume-related indicators only (i.e., Producer-Car Shipments). The accompanying percentage variance denotes the relative change in the current YTD value compared to the same period a year earlier.

(2) — Quarterly values for non-volume-related indicators (i.e., Producer-Car-Loading Sites) are "as at" the end of the reporting period. The accompanying percentage variance denotes the relative change in the value of the most recent reporting period compared to that at the end of the preceding crop year.

(3) – The GMP provides for the calculation of this indicator on an annual basis. Quarterly values are not available.



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Appendix 1: Program Background

On June 19, 2001, the Government of Canada announced that Quorum Corporation had been selected to serve as the Monitor of Canada's Grain Handling and Transportation System (GHTS). Under its mandate, Quorum Corporation provides the federal government with quarterly and annual reports aimed at measuring the system's performance, as well as assessing the effects arising from the government's two principal reforms, namely:

- The introduction, and gradual expansion of tendered grain movements by the Canadian Wheat Board; and
- The replacement of the maximum rate scale for rail shipments with a cap on the annual revenues that railways can earn from the movement of regulated grain.

In a larger sense, these reforms are expected to alter the commercial relations that have traditionally existed between the primary participants in the GHTS: producers; the Canadian Wheat Board; grain companies; railway companies; and port terminal operators. Using a series of indicators, the government's Grain Monitoring Program (GMP) aims to measure the performance of both the system as a whole, and its constituent parts, as this evolution unfolds. With this in mind, the GMP is designed to reveal whether the movement of grain from the farm gate to lake- and sea-going vessels (i.e., the supply chain) is being done more efficiently and reliably than before.

To this end, the GMP provides for a number of specific performance indicators grouped under five broad series, namely:

Series 1 – Industry Overview

Measurements relating to annual grain production, traffic flows and changes in the GHTS infrastructure (country and terminal elevators as well as railway lines).

Series 2 – Commercial Relations

Measurements focusing on the tendering activities of the Canadian Wheat Board as it moves towards a more commercial orientation as well as changes in operating policies and practices related to grain logistics

Series 3 – System Efficiency

Measurements aimed at gauging the operational efficiency with which grain moves through the logistics chain.

Series 4 – Service Reliability

Measurements focusing on whether the GHTS provides for the timely delivery of grain to port in response to prevailing market demands.

• Series 5 – Producer Impact

Measurements designed to capture the value to producers from changes in the GHTS, and is focused largely on the calculation of "producer netback."

Appendix 2: Commodities Guide

To assist the reader of the Grain Monitor's reports, the following description of various commodities discussed is provided. These selections are taken from the CGC *Official Grain Grading Guide* – Chapter 27.

Board Grain: Board grains are western grains marketed under the control of the Canadian Wheat Board (CWB). These include western wheat and barley destined for the export market, as well as domestic sales of wheat and barley for human consumption. Domestic feed wheat and domestic feed barley may be sold either on the open market or delivered to the CWB.

Canola: The term "canola" was trademarked in 1978 by the Western Canadian Oilseed Crushers' Association to differentiate the new superior low-erucic acid and low-glucosinolate varieties and their products from older rapeseed varieties.

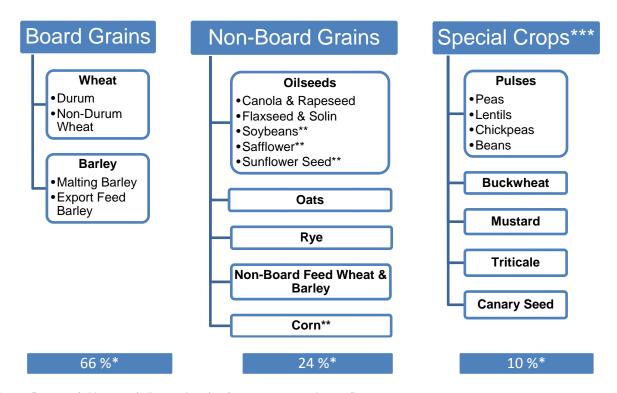
Non-Board Grain: Non-Board grain is grain marketed through the open market system. Such grain includes domestic feed wheat and barley, rye, oilseeds and specialty crops.

Oilseeds: Oilseeds include flaxseed and solin, canola and rapeseed, soybeans, safflower and sunflower seed.

Pulses: Pulses are crops grown for their edible seeds, such as peas, lentils, chick peas or beans.

Screenings: Screenings is dockage material that has been removed by cleaning from a parcel of grain.

Special Crops: Special crops are considered to be beans, buckwheat, chick peas, corn, fababeans, lentils, mustard, peas, safflower, soybeans, sunflower, and triticale.



- Percent of shipments (railway volume) to four western ports in past five years
- ** Also may be considered special crops
- *** Not all special crops as defined by the CGC are included under the umbrella of the Canadian Special Crops Association

Appendix 3: Producer Netback Calculator

A prime issue with many stakeholders is the impact that the shrinking GHTS network has had on the length of truck haul from farm gate to elevator. While all evidence suggests that truck hauls are increasing because of the reduced number of delivery points, the exact – or even approximate – amount of this increase is unknown. Following discussions with stakeholders and the government, a methodology that would allow the Monitor to gather the data necessary to enhance the quality and reliability of this component of the export basis has been developed. The Producer Netback Calculator (PNC) was designed to provide a cost-effective and non-intrusive means of gathering this data.

At the same time, and in response to producers' requests, the Monitor will provide access to data on the costs associated with moving grain from farm-specific locations to export position (the export basis). These costs are the same ones reflected as deductions on cash tickets. The PNC has been designed to assist farmers in determining the delivery options that may provide the best returns for their wheat, durum and feed barley. When these costs are subtracted from the most recent CWB Pool Return Outlook (PRO), the resulting calculation of producer netback provides the best possible estimate of the real returns to be had for their grain.

To gain access to the PNC, producers are provided with their own personal log-in identification and password. Once they have logged into the system, all communication will be secured through 128 bit encryption technology, identical to that used by major banks to allow customers access to their accounts over the internet. This ensures that all information is communicated and held with the strictest confidentiality, while allowing the Monitor to classify data according to the demographics of the specific producer. Producers can be assured that no data specific to any individual will be published, or shared, by Quorum Corporation.

Calculation of a producer's estimated export basis and netback is based on the entry of movement-specific information (i.e., delivery point, grain company, grain, grade, etc.). After entering this basic information, the producer can then run a calculation that will return a tabular accounting of the export basis and producer netback based on the PRO. The producer also has the option of "recalculating" these estimates by returning to a previous screen, and

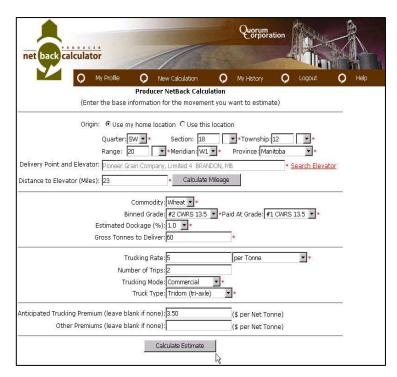


Figure A1: An image of the input screen for Quorum Corporation's Netback Calculator.

changing any of the parameters used in the calculation (i.e., destination station, grain company, etc.).

⁴⁸ The GMP currently incorporates trucking costs based on the commercial short-haul trucking rates for an average haul of 40 miles, as presented in Table 3A-1.

Every estimate will be recorded and accessible to the producer through a "history" listing. It is through this screen that producers are given the ability to create comparative reports that can present these estimates – or those they wish to see – in summary or detail. These reports can also be printed or presented as a computer spreadsheet. This is also the section of the system where the producer identifies estimates that subsequently resulted in actual grain movements.

The Grain Monitoring Program will gain valuable data on grain logistics by retaining a record of the individual transactions that pertain to actual deliveries. In specific terms, this data will assist in analyzing the average length of haul to elevators, modal utilization, and other farm gate to elevator delivery issues. This information will be incorporated into the calculation of producer netback in future reports of the Monitor.

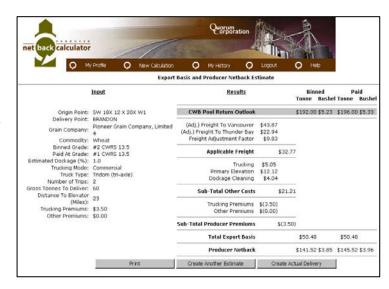


Figure A2: An image of the output screen for Quorum Corporation's Netback Calculator.

Appendix 4: Acknowledgements

The scope of this review is far-reaching and could not have been completed without the assistance of the various stakeholders that submitted views on the detailed monitoring design and provided the data in support of the GMP. Quorum Corporation would like to thank the following organizations, and more particularly the individuals within them, for the cooperation they have extended in our efforts to implement the Grain Monitoring Program. We have come to appreciate not only their cooperation as suppliers of data under the program, but to value their assistance in helping to improve the quality of the program as a whole. We look forward to their continued input and cooperation throughout the duration of the Monitoring Program.

Agricultural Producers Association of Saskatchewan

Agriculture and Agri-Food Canada

Alberta Agriculture, Food and Rural Development

Alberta Infrastructure and Transportation

Alliance Grain Terminal Ltd.
Alliance Pulse Processors Inc.

Canadian Canola Growers Association

Canadian Grain Commission

Canadian Maritime Chamber of Commerce

Canadian National Railway Canadian Pacific Railway

Canadian Ports Clearance Association Canadian Ship Owners Association Canadian Special Crops Association Canadian Transportation Agency

Canadian Wheat Board Cando Contracting Ltd.

Cargill Limited

CMI Terminal

Fife Lake Railway Ltd.
Gardiner Dam Terminal

Government of British Columbia Grain Growers of Canada Great Sandhills Terminal

Great Western Railway Ltd. ICE Futures Canada, Inc.

Inland Terminal Association of Canada

Keystone Agricultural Producers Kinder Morgan Canada

Lethbridge Inland Terminal Ltd. Louis Dreyfus Canada Ltd.

Manitoba Agriculture, Food and Rural Initiatives

Manitoba Infrastructure and Transportation

Mission Terminal Inc.

Mobil Grain Ltd.

National Farmers Union North East Terminal Ltd. North West Terminal Ltd. OmniTRAX Canada, Inc. Parrish & Heimbecker Ltd.

Paterson Grain
Port of Churchill
Port of Prince Rupert
Port of Thunder Bay
Port of Vancouver
Prairie West Terminal
Prince Rupert Grain Ltd.
Red Coat Road and Rail Ltd.
Richardson Pioneer Ltd.

Saskatchewan Agriculture and Food

Saskatchewan Highways and Transportation Saskatchewan Association of Rural Municipalities

South West Terminal Statistics Canada Transport Canada Viterra Inc

West Central Road and Rail Ltd.
Western Barley Growers Association

Western Canadian Wheat Growers Association
Western Grain By-Products Storage Ltd.
Western Grain Elevator Association
Weyburn Inland Terminal Ltd.
Wild Rose Agricultural Producers