ECONOMIC AND SOCIAL BENEFITS ASSESSMENT

FINAL REPORT

Quesnel Farmers' Market

Quesnel, British Columbia

A collaborative project of
British Columbia Association of Farmers' Markets
and
School of Environmental Planning,
University of Northern British Columbia





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Vancity Community Foundation

EXECUTIVE SUMMARY

The demand for locally produced fresh, nutritious food by local consumers has grown rapidly over the past ten years. So too has the number of farmers' markets. As the most visible and accessible component of our local food systems, farmers' markets have strengthened their role as providing unique places for local producers and local consumers to connect. Although this role of farmers' markets within local food systems is well recognised, it is important to know not only what markets contribute to local areas but also to know how much they contribute.

This final report presents the findings from the assessment completed for the Quesnel Farmers' Market on July 14, 2012. It includes results of a province-wide assessment of BC's farmers' markets and incorporates some results from a national study of farmers' markets completed in 2008¹.

The provincial project was completed by the BC Association of Farmers' Markets, in collaboration with Dr. David Connell of the University of Northern British Columbia. The purpose of the provincial study was to measure the community and economic benefits of farmers' markets across British Columbia in order to quantify the significant contributions of farmers' markets and to increase their visibility both locally and provincially. This year's project builds upon the success of a similar project completed in 2006. Six years later, by using similar methods we will be to assess changes that have taken place during this time. In total, 33 assessments were completed across the province in 2012.

Highlights of results for the Quesnel Farmers' Market:

- The estimated economic benefit of the Quesnel Farmers' Market to the local economy is approximately \$838,000 annually
- The estimated number of market customers on assessment day: 1,464 customers
- Over 275 market visitors participated in the study
- Average customer spending per visit: \$23.86
- 58.6% of the survey respondents visit the market either 'regularly' (almost weekly) or 'frequently' (2-3 times per month)

The Quesnel Farmers' Market, which is located in downtown Quesnel at the Helen Dixon Center Grounds, has operated for over 24 years. As the results of this study show, the market has grown over the past six years, with an estimated annual economic benefit of \$838,000 in 2012 compared to \$722,000 in 2006. This growth can be attributed to an increase in the average amount spent by customers (\$23.86 versus \$21.77) and a small increase in the estimated number of shoppers attending the market over the whole season.

The Market gets about 31,200 shopper visits annually, including an estimated 1,464 shoppers on the day of the assessment (July 14, 2012). The number of visitors to the market is

comparable with other markets of its size in BC. The average customer spending at the Quesnel market is lower than the provincial average and the national average for medium-sized markets, although it is important to note that the market is at the smaller end of the medium-sized category. The Quesnel Farmers' Market has a lower percentage of first-time visitors and regular shoppers (almost weekly) compared to 2006. However, the market has grown a larger percentage of rarely (1x/yr) to frequent (2-3x/month) shoppers since 2006. The 2012 results are very similar to the provincial averages regarding shoppers' frequency of market visits.

As part of this year's assessment, the Quesnel Farmers' Market asked their customers about where they would spend their money if there was more variety of foods offered at the market. The top two responses for this question were more on fruit (26.2% of responses) and more on fresh produce (25.9%).

The Quesnel Farmers' Market is a social hub on Saturdays, where people can come to see old friends or meet new ones. With weekly live entertainment and a variety of ready-to-eat foods, the market is an entertaining event for the whole family.

DESCRIPTION OF MARKET

The Quesnel Farmers' Market

Market Website:

http://www.quesnelmarket.com/

http://www.bcfarmersmarket.org/markets/marketdetails.asp?marketID=34

The Quesnel Farmers' Market has been a weekend institution since 1989. Coordinated by a dedicated group of volunteers, the Farmers' Market has grown to receive hundreds of visitors each weekend. During the summer, the Market runs special events, including the Flavours of Quesnel, Artists at the Market, and Customer Appreciation Day.

Availability: Open from May 5th to October 5th every Saturday.

Vendors: 35

Location: Helen Dixon Centre Grounds, corner of Kinchant Street &

Carson Avenue, Quesnel.

Contact Info: Paul Dumais, Market Manager

500 North Star Road Quesnel, BC V2J 5P6

RESEARCH METHOD

The assessment of individual markets in BC is organised around two sets of activities: rapid market assessment and market surveys. These are the same methods used for the BC study in 2006.

1) Rapid Market Assessment:

The Rapid Market Assessment (RMA) technique was developed by researchers at Oregon State University for studying farmers' markets. This method has been implemented successfully in markets throughout Oregon and Washington states. The RMA method consists of three parts: customer survey; crowd count; environmental observations. The environmental observations are optional for markets in this present study and so are not included in this report.

a) Flip-chart survey: The flip-chart survey method engaged consumers in friendly interaction through multiple-choice questions posted in large print on flip charts. This approach has a high response rate, thereby increasing validity and accuracy.

The set of questions used for the survey (Box 1) were developed in two parts. The first four questions were developed by the research team and were asked at all farmers' markets participating in the project. Asking the same questions at all markets was necessary to complete the provincial analysis. Each participating market developed the fifth question to collect data that are relevant to making effective changes and improvements to the local market.

Box 1. Flip-chart survey questions

- 1. How often do you come to this farmers' market?
- 2. When did you start shopping at this market?
- 3. How much have you spent, or do you plan to spend, at the market today?
- 4. If you plan to do additional shopping or eating while in this area of town today, how much do you plan to spend?
- 5. If there was more variety of the following foods at the market, on which two might you spend more money?
- b) Crowd count: During a ten-minute period of each hour the market is open, members of the assessment team stood at each major entry point to the market and counted people entering. The total number of attendees is estimated from these systematic counts.

2) Market surveys

The analysis of community benefits of farmers' markets involves more detailed surveys of market customers and local businesses.

- a) Customer surveys. A small sample of customers was asked to participate in a short interview. People were asked about where they shop, factors they consider when buying food, how long they spend at the market, and how they spend their time when at the market. Customers were also asked if they shop at other businesses on the same day that they visit the farmers' market. The small sample size means that the results cannot be generalised to all market customers. Nevertheless, the information collected expands upon the flipchart survey information and lends further insights to market customers and the relation between the market and neighbouring businesses. Some of the customer survey data will be aggregated at the provincial level.
- b) Business surveys. Businesses located near the farmers' market were surveyed to assess the influence of the market on neighbouring businesses and to explore the nature of the relationship. The information collected from these surveys is specific to each local market and will lend insight to how relations might be further developed. The business information will also help to understand the relation between farmers' markets and businesses generally. Surveys were not completed at farmers' markets that did not have other businesses located nearby.

Together, the market assessment and the more detailed market surveys improve our understanding of what makes the Quesnel Farmers' Market successful and how it contributes to the local area, in terms of both its economic and social benefits.

RESULTS

This section reviews the results of the rapid market assessment, including the crowd count estimates and flip-chart surveys. The results for the one-on-one customer interviews and business interviews follow.

Rapid Market Assessment

The weather on the day of the assessment was sunny hot, reaching 28 degrees Celsius by mid-day. There were approximately 37 vendors present.

Crowd count

The total estimated number of people attending the Quesnel Farmers' Market on July 14, 2012, was 1,464.

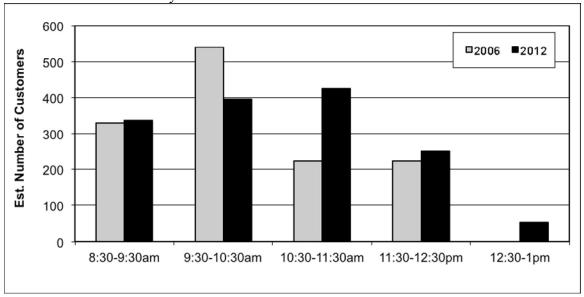
The actual and extended counts for the assessment are shown in Table 1. The total estimated counts are also shown in Chart 1.

Table 1. Estimated Crowd Count

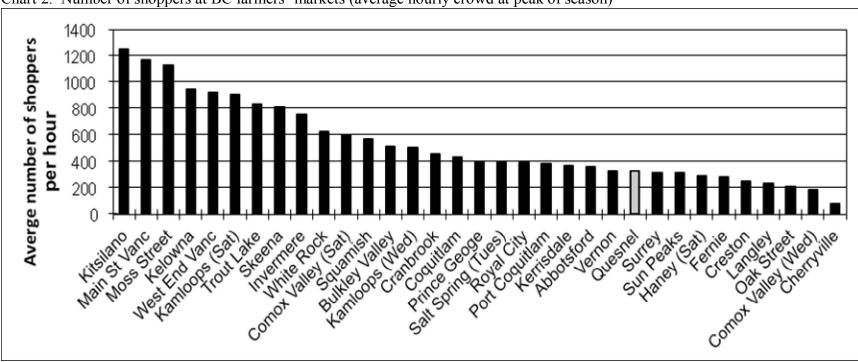
Time period	Count period	Actual count	Extended total	
1st hour (8:30-9:30)	9:00-9:10am	56	336	
2nd hour (9:30-10:30)	10:00-10:10am	66	396	
3rd hour (10:30-11:30)	11:00-11:10pm	71	426	
4th hour (11:30-12:30)	12:00-12:10pm	42	252	
5th 1/2 hour (12:30-1:00)	12:30-12:35pm	18	54	
Estimated	1,464			

Chart 1 (below) shows the estimated crowd totals for each hour. Market attendance steadily builds over the first three hours, peaking during the third hour, and then decreases sharply for the final hour and a half. The pattern is quite different from the pattern observed in 2006, although the weather was similar.

Chart 1. Crowd counts by the hour



As shown in Chart 2 (next page), the number of shoppers attending the Quesnel Farmers' Market is slightly lower than average when compared to other markets that we assessed in BC. The data are based on the average number of shoppers attending a market on an hourly basis (not on the total number of shoppers).

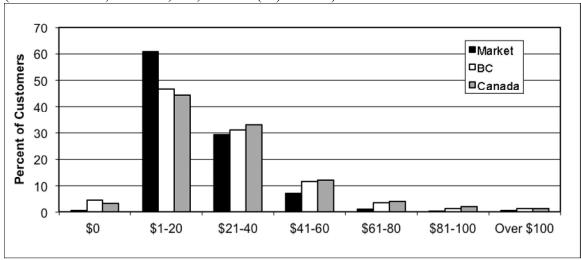


Flip-chart survey

Approximately 275 people responded to the dot survey, which is about 18.7% of the estimated crowd count. The following five charts show the results for each of the flip chart survey questions.

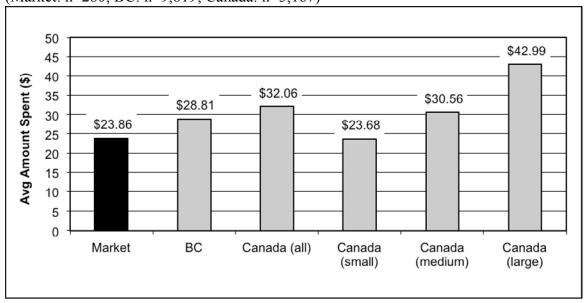
Question 1. How much have you spent, or do you plan to spend, at the market today? Overall, respondents spent an average of \$23.86 each on the day of the assessment. Most customers surveyed (60.7%) said they would spend up to \$20 at the market that day. The average amount spent by shoppers in 2006 was \$21.77.

Chart 3. How much have you spent, or do you plan to spend, at the market today? (Market: n=280; BC: n=9,819; Canada (M): n=996)



The results shown in Chart 4 (next page) illustrate how the Quesnel Farmers' Market compares to the average amount spent by customers at all BC markets and at small (<20 vendors), medium (20-39 vendors), and large farmers' markets (40+ vendors) in Canada. As a medium-sized market, the Quesnel Farmers' Market has lower average customer spending than provincial averages and national averages for comparable markets.

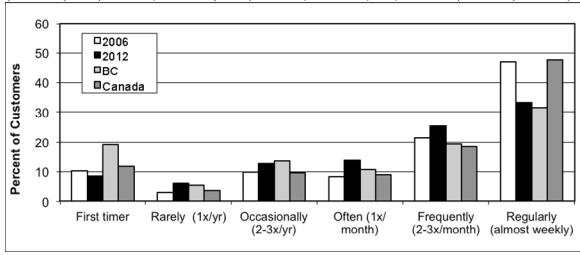
Chart 4. Average amount spent by market shoppers (Market: n=280; BC: n=9,819; Canada: n=3,167)



Question 2. How often do you come to this farmers' market?

As shown in Chart 5, regular shoppers account for the highest percentage of visitors to the Quesnel Farmers' Market. One in three customers (33.2%) shops regularly at the market. First-time visitors to the market accounted for 8.6% of respondents. This pattern is similar the results of the assessment in 2006. These results are also similar to the provincial and national averages.

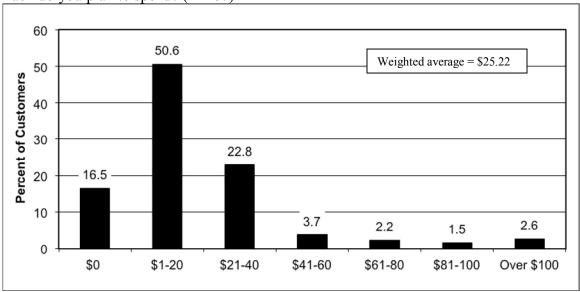
Chart 5. How often do you come to this market? (Market (2006): n=280; Market (2012): n=242; BC: n=9,874; Canada (medium): n=996)



Question 3. If you plan to do additional shopping or eating while in this area of town today, how much do you plan to spend?

Chart 6 shows the range of additional spending by market customers, with 83.5% of respondents saying they would do additional shopping at neighbouring businesses that day. Half (50.6%) of customers surveyed said they would spend up to \$20; 32.9% said they would spend more than \$20. The average amount spent per customer at neighbouring businesses was \$25.22. These results are slightly lower than the results of the 2006 assessment, when the average amount spent at neighbouring businesses was \$28.03. Given the variability among markets, no comparison is made with BC or national results.

Chart 6. If you plan to do additional shopping or eating while in this area of town today, how much do you plan to spend? (n=267)



Question 4. When did you start shopping at this farmers' market?

As shown in Chart 7, your market has a good portion of long-time, loyal customers. Almost a third of all customers surveyed (58.4%) has been coming to this market for five years or more, and 28.3% of all respondents have been coming to this market for more than ten years. In addition to the long-time regulars, there were also 14.7% of respondents who were first-time visitors to this market.

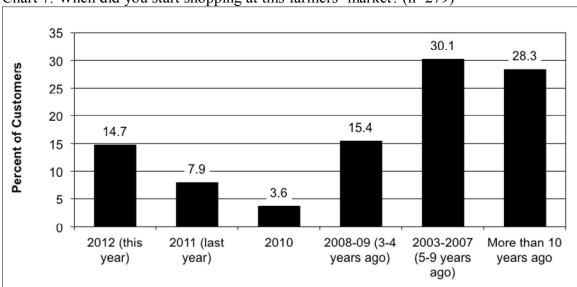
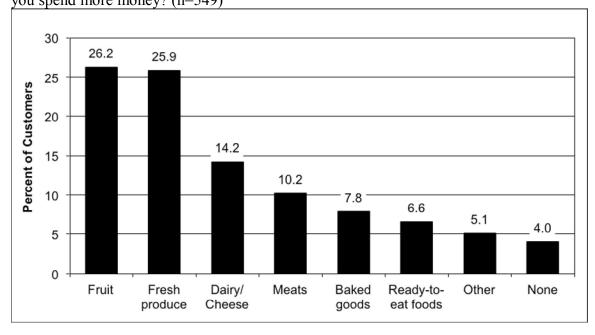


Chart 7. When did you start shopping at this farmers' market? (n=279)

Question 5. If there was more variety of the following foods at the market, on which two might you spend more money?

As shown in Chart 8, the results indicate that shoppers are most interested in spending more on fruit (26.2% of responses) and fresh produce (25.9% of responses). There is some but less interest in a variety of other products.

Chart 8. If there was more variety of the following foods at the market, on which two might you spend more money? (n=549)



Market surveys

Customer Survey

We conducted interviews with 291 customers at 33 markets in BC. The following charts show results of all the customers surveyed across the province. When interpretting the results of these surveys, it should be noted that the people who agreed to participate in the one-on-one interviews over-represent regular shoppers, as these people are also the ones who are more likely to participate in such market surveys. The over-representation of regular shoppers is evident when we compared the customer survey results (291 responses) against the results gathered from the flip chart surveys (9,819 responses). The flip chart surveys show a wider representation of market shoppers.

The results in Chart 9 show the age range of farmers' market customers in BC.

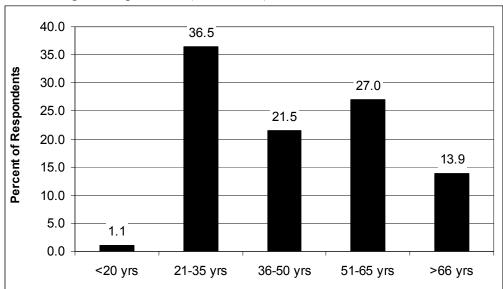
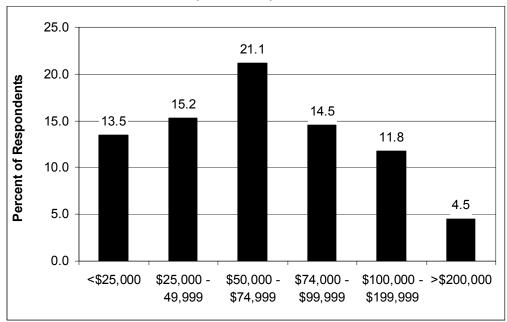


Chart 9. Age of respondents (BC: n=274)

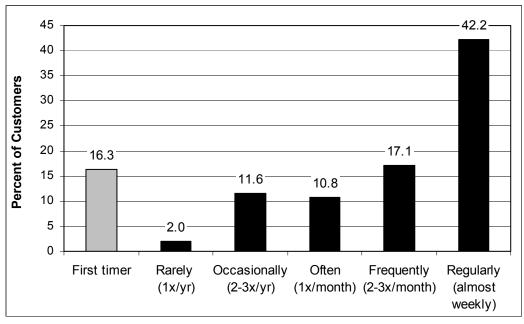
The household income of shoppers at farmers' markets in BC is shown in Chart 10 on the next page. The results show that people from households with a range of incomes shop at BC's markets.

Chart 10. Household income (BC: n=233)



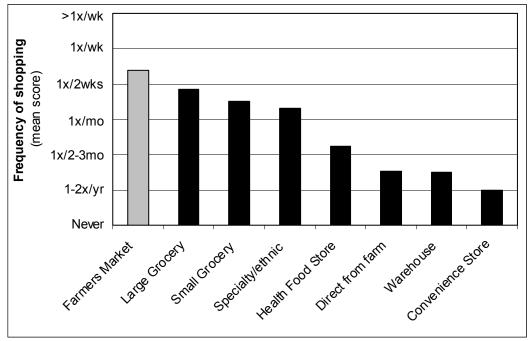
Over 40% of customers surveyed in BC shop at the market regularly (almost weekly), with an additional 17% shopping at least two to three times per month (Chart 11). Together, these results indicate that almost six of ten shoppers can be considered among the core group of market shoppers at BC markets, although, as noted, the results do overrepresent regular shoppers. The actual results are likely to be lower but still significant.

Chart 11. Frequency of shopping at farmers' markets (BC: n=251)



We also asked shoppers where and how often they buy groceries at other food retail outlets during the outdoor market season. The people surveyed indicated that they shop more often at the farmers' market than at other food retail outlets (Chart 12).

Chart 12. Where shoppers shop during the outdoor market season (BC: n=290) Note: a higher bar means shopping more often at the corresponding store.

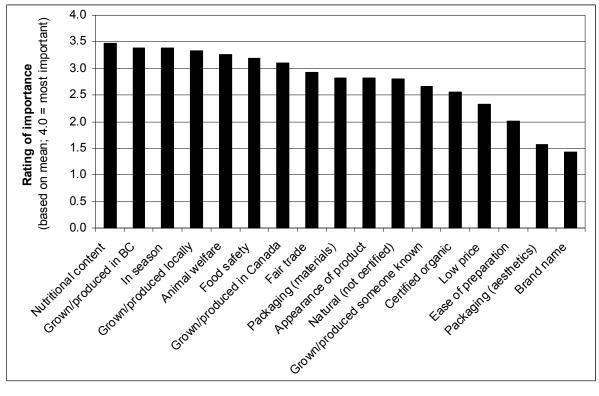


Part of the answer to explain the shopping pattern of market customers is evident in Chart 13, which shows the relative importance of factors customers consider when buying food. During the farmers' market season the five most important factors to market customers are:

- Nutritional content
- Grown/produced in BC
- In season
- Grown/produced locally
- Animal welfare

Brand name, low price, and certified organic are among the lowest rated factors that influence food purchasing decisions.

Chart 13. Factors people consider when buying food: BC (n=289)



We also asked customers how long they spend at the market (Chart 14) and how much of that time they spend talking with vendors and friends (Chart 15). The results for all BC shoppers surveyed highlight the important social aspect of farmers' markets. Almost 70% of all respondents said that they spend over 30 minutes at the market, and over half (53.8%) of all respondents said they spend at least half their time at the market socialising with others.

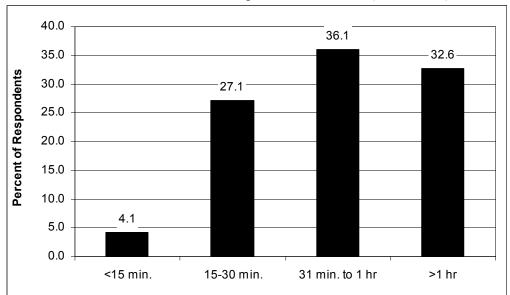
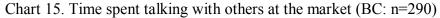
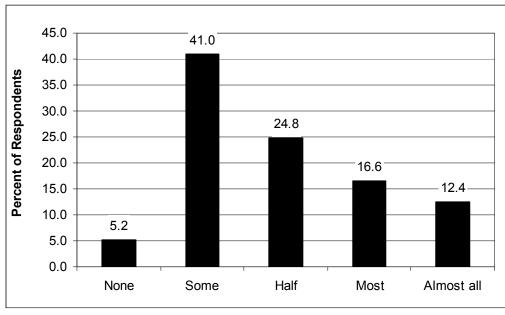


Chart 14. Amount of time customers spend at the market (BC: n=290)





The results of the above two questions are combined in Table 2. The shaded boxes highlight those people who spend at least half an hour at the market *and* at least half of that time talking with vendors, friends, and acquaintances. Altogether, these people represent 45% of the shoppers surveyed at BC's farmers' markets.

Table 2. Time spent at market talking with others (percentage) (BC: n=290)

		How time s	spent				Total
		None	Some	Half	Most	Almost all	
Time spent at market	<15 min.	1	2	0	0	0	4
	15-30 min.	2	17	5	3	0	27
	31 min. to 1 hr	1	16	11	5	4	36
	>1 hr	1	7	9	9	8	33
Total		5	41	25	17	12	100

Economic Benefits

The information collected in this assessment enables us to measure the economic benefits of the Quesnel Farmers' Market.

To measure the economic benefits of farmers' markets means to measure the ripple effect of people spending dollars at the market: if I spend \$1 at the market then how does this dollar benefit the local economy? The ripple effect includes both the profit to the market vendor and the monies the vendor spent on inputs to get to the market (e.g., seeds, feed, ingredients, etc.).

Economic benefits, which can include direct, indirect, and some induced effects, are measured in terms of revenue (\$), output (\$), and employment (jobs). In this study we measure only revenues. We chose to calculate revenue benefits using a multiplier of 1.5iv. This multiplier means that for every dollar spent at the market, another \$0.50 is spent in the local economy. Compared to some other studies of farmers' markets, this multiplier is conservative.

The annual economic benefit is calculated by multiplying direct annual sales by the multiplier (1.5). Direct annual sales are calculated as follows:

Average expenditure X Number of spending X Number of sessions X Seasonal by customer customers per session per year factor factor

For the Quesnel Farmers' Market, seasonally adjusted annual direct sales are:

\$23.86 per customer visit X 1,284 spending customers X 23 (adjusted) sessions = \$558,000

Using a multiplier of 1.5, the annual economic benefit is approximately:

Annual economic benefit (2012): \$838,000

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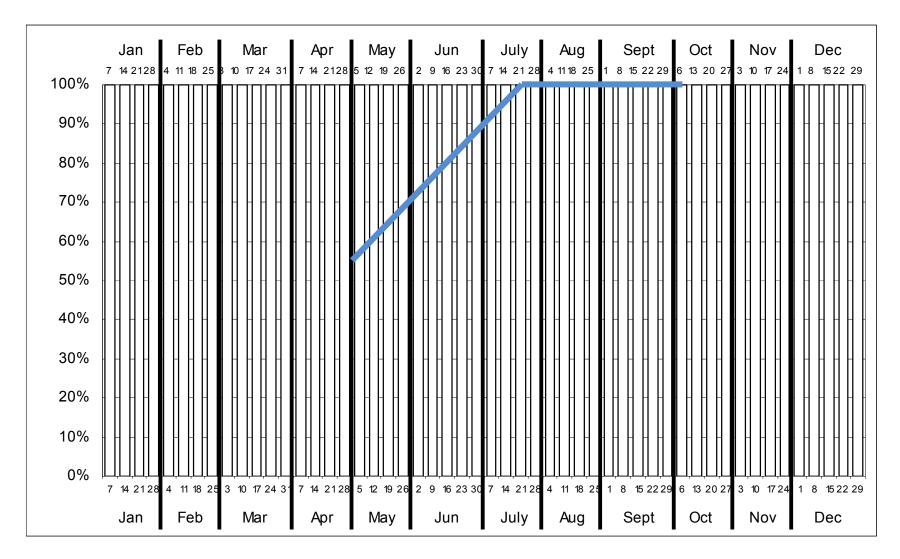
This calculation means that the Quesnel Farmers' Market contributes an estimated \$838,000 to the local economy each year. These monies benefit not only market vendors but also the local businesses that supply these vendors.

In 2006, the economic benefit of the Quesnel Farmers' Market was estimated at \$722,000. viii

The total estimated annual economic benefit for all farmers' markets in BC is \$170.5 million.

We can also assess the 'spillover' effect that the Quesnel Farmers' Market has on its neighbouring businesses. Based on survey results, we can estimate the benefits of market customers spending additional dollars at local businesses on the day of the market. Using the same formula as above, the annual economic benefit of additional spending at other neighbouring businesses is over \$739,000

Appendix: Seasonal activity chart for Quesnel Farmers' Market



Acknowledgements

The BC Association of Farmers' Markets and the project team would like to thank the Quesnel Farmers' Market for participating in this assessment and for providing a team of volunteers to help conduct the assessment. Financial and in-kind support is provided by participating farmers' markets. The BCAFM wishes to acknowledge the financial assistance of Agriculture and Agri-Food Canada and the Investment Agriculture Foundation of BC for making this study possible. We would also like to acknowledge the Vancity Community Foundation's contribution to the study.

End notes

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ⁱ Source: Experience Renewal Solutions and David J. Connell (2009). National Farmers' Market Impact Study 2009 Report. Prepared for Farmers' Markets Canada.

ⁱⁱ The average spent per customer is weighted by category based on results of a national study of farmers markets completed in 2008.

The average spent at nearby businesses is weighted by category based on results of a national study of farmers markets completed in 2008.

The number used for multipliers for farmers' markets varies, ranging from 1.21 to 3.0. A multiplier of 2.0 is commonly used for convenience. We chose to use a multiplier of 1.5 as this appears to be more accurate based on studies by Hughes, Brown, Miller, and McConnell (2008) and Otto and Varner (2005). We used a multiplier of 2.0 in the 2006 study; the results from the 2006 study that are cited in this report have been revised based on a 1.5 multiplier.

^v This is based on the estimated crowd count. However, not all people attending the market are included in the calculation. Some people may not spend any money while other people included in the crown count are members of the same household and should not be double-counted. Based on results of the national study of farmers' markets in Canada in 2008, we estimate that 75 per cent of the crowd count is considered a paying customer.

vi Includes special days, if any, such as 'Christmas markets'.

vii The seasonal factor accounts for varying sales/crowd levels during the season. For the outdoor season, markets generally start off slow and peak for a number of weeks during the summer and then decline. The seasonal factor is calculated for each market based on data collected from the market's manager and long-time vendors. A seasonal activity chart for your market is included in the Appendix.

viii The results of the 2006 study have been revised to reflect updated and more accurate assumptions about estimating the economic benefits of farmers markets. For example, some of the assumptions are based on the results of the national study of farmers markets completed in 2008, which included interviews with 3,174 market shoppers across Canada.