Vegetable Vancouver 2010: An Urban Farming Census



FACULTY OF LAND AND FOOD SYSTEMS

Grounded in Science | Global in Scope

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Introducing Vancouver's Urban Farms

	Land Tenure	Zoning and Land Type	Land (sq ft)	Model	People	Owner/Employee Weekly Hours	Volunteer Weekly Hours	Weeks of FT Operation	
Farm One	Government Leased	RA	34138	Markets		125	60	28	
Farm Two	Government Leased	RT - Unused Lawn	21780	CSA	અંત અંત અંત અંત	312	50	32	
Farm Three	Residential	RS - Yardspace	14520	CSA	brörörörör	160	0	28	
Farm Four	Privately Donated	M1 - Parking Lot	14005	Markets, Restaurants		142	0	28	
Farm Five	Residential, Rooftops	RS - Yardspace	9100	CSA, Markets, Construction	₩ ₩	48	0	28	
Farm Six	Residential	RS -Yardspace	3330	CSA, Markets	111 🐋	80	115	36	
Farm Seven	Privately Donated	CD1 - Brown- field	2151	Markets, Restaurants, Retail	₩ ₩	100	0	28	
Farm Eight	Owned	RA	1800	Camps, CSA, Markets	🗍 x 15 Part Time 🛛 🗯	130	95	24	
One Owner/ManagerOne Part Time EmployeeOne Consistent Volunteer/InternTotal Land Farmed = 2.31 acresCSA = Community Sponsored Agricultural; RT: Two Family Dwelling District; RS: One Family Dwelling District; M1: Industrial District; Comprehensive Development District									

An Urban Farming Census

Urban farms are entities that grow food for sale within urban areas and for urban residents using field based production methods. In 2010, 12 urban farms operated within the City of Vancouver and Richmond. In 2011, three more farms cultivated and harvested food for their communities.

Urban farmers are developing new organizational models to capture a growing market for local food and food education. All farms are within the first five years of operation. As such, their economic positions reflect the first steps of building robust organizations. Farmers are learning how to grow, market, and advocate for urban farming. This worksheet is a quantitative snapshot of eight urban farms during the 2010 season.

Research Questions and Methods

This work was conducted under a Community Based Action Research paradigm: working with urban farmers to develop research questions to help them understand their industry and environment. Discussing financial matters is never trivial, and requires trust between participants. I worked alongside farmers in the field, in the kitchen, and in their communities to allow them to know me, and to get to know them. Through these interactions, a set of research questions was developed:

- Do urban farms produce enough revenue to provide farmers a living wage?
- What business models are most frequently used?
- Which urban farming models are the most economically successful?
- How do urban farmers understand their social and environmental contributions?

Urban farmers were asked to participate in semi-structured interviews focusing on generating quantitative data on the revenues and costs for urban farmers, and qualitative information on the environmental and social benefits and costs of urban farming. Not all urban farmers were interviewed during the busy summer growing season: three interviews are forthcoming, and one farmer was unreachable. Interviews lasted 2 - 3 hours, and took place in a space comfortable for the farmer (n=8).

Revenue Models

Markets: Produce sold at Vancouver Farmers' or Pocket Markets.

CSA: Customers pay up front fee for weekly boxes of produce through the season.

Restaurants: Produce sold to local restaurants.

Construction: Gardens are built for clients.

Retail: Produce sold to retail locations.

Camps: Farms host children's programming during the summer.

Owner / Manager Farming Experience

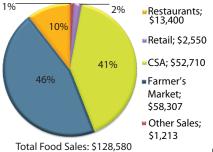


Grew-Up On A Farm; n=3
 5-10 Years Farming Experience; n=3
 No - Some Gardening/Farming Experience; n=11

Revenue and Costs

Vancouver's urban farms are in the first five years of operation. Owners are beginning to understand their input costs, potential markets, and growth potential. Below is the data on Vancouver Urban Farm revenue and costs. "Takeaway" boxes point to specific data and compares urban farms to traditional farms.

Food Revenue Breakdown



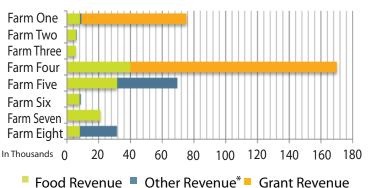
The restaurant market is largely untapped by urban farmers.

Costs Takeaway

- Generally low costs.
 High labour costs tied to organizational missions to maximize employment.
- Unlike rural farmers, land rent is minimal due to donation.
 The average farm in British
- Columbia incurs \$.88 in costs for every dollar in revenue.²
- Urban farmers incur \$.51 in costs for every dollar in revenue.

	Retained Earnings [†]		Weekly Owner Hours	Total Season Hours	Hourly Return to Owners				
Farm One	Non-Profit Status								
Farm Two	\$	5,534	312	9984	\$	0.55			
Farm Three	\$	3,637	160	4480	\$	0.81			
Farm Four	Non-Profi								
Farm Five	\$	43,980	48	1344	\$	32.72			
Farm Six	\$	1,517	80	2880	\$	0.53			
Farm Seven	\$	14,262	50	1400	\$	10.19			
Farm Eight	\$	13,540	80	1920	\$	7.05			

Urban Farming Revenue



* Other Revenue: workshops, construction, classes. Non-Food, Non-Grant revenue

Revenue Takeaway

• \$128,580 of food was produced on 2.31 acres at an average of \$55,552/acre.

• BC vegetable farms generate \$17,565/acre for non-grain crops.¹

• Diverse revenue streams support food sales.

Selected Urban Farming Operating Costs

	/ Vehicle ntenance	Overhead			Paid .abor	Seeds & Plants		Soil Amendments		Tools		Total	
Farm One	\$ -	\$	5,089	\$	26,926	\$	-	\$	-	\$	435	\$	35,528
Farm Two	\$ 40	\$	26	\$	-	\$	232	\$	99	\$	-	\$	456
Farm Three	\$ -	\$	-	\$	-	\$	400	\$	1,000	\$	300	\$	1,700
Farm Four	\$ 1,000	\$	-	\$1	50,000	\$	1,000	\$	1,000	\$	-	\$	153,042
Farm Five	\$ -	\$	13,920	\$	10,000	\$	400	\$	1,000	\$	300	\$	25,620
Farm Six	\$ 2,186	\$	2,874	\$	-	\$	1,408	\$	-	\$	152	\$	6,620
Farm Seven	\$ -	\$	-	\$	3,411	\$	2,570	\$	910	\$	-	\$	6,891
Farm Eight	\$ -	\$	-	\$	18,000	\$	-	\$	-	\$	-	\$	18,000

Retained Earnings Takeaway

• Urban farmers are still learning how to build their businesses.

• Farm Five derives much of her business through non-food revenue, while Farm Seven has a single high profit crop.

Average wage for urban farm employees fluctuates between \$12 - \$20 an hour.
Average net farm income in BC is \$16,839 or \$8.77 /hr. compared with an

average of \$13,745 or \$8.64/hr. for urban farm owners².

[†] Retained Earnings = Total Revenue - Operating Costs - Capital Expenses

Conclusions

Even as urban farmers build new markets and systems of production, many find work in other endeavors during the year to support their farming. Revenue derived directly from the land is low, though this is comparable to traditional farms. It is clear that there is room for tremendous growth. BC boasts roughly \$60M in sales in farmer's markets.³ Vancouverites in particular demand local, fresh, produce. Urban farmers have ready consumers, but simple distribution markets must be established. Comparatively low restaurant sales could be due to a possible lack of farmer time or difficulty building relationships with chefs. Profitability will increase dramatically as farmers become more adept at their tasks; many farmers are inefficient with their time. For many, farming is a labour of love. The environmental connection and lifestyle drew many farmers into the industry. Hourly wages may not be an appropriate method to understand the worth of an urban farming job. However, financial sustainability will require urban farmers to build robust markets and develop labour saving strategies.

This winter, I will collect data on the 2011 season, I look forward to this continued work alongside the urban farmers, city officials, and academics to help make that happen.

Special thanks to Vancouver's urban farmers for both the community they build and the food they grow; to my faculty advisors, Dr. Andrew Riseman and Prof. Daniel Roher, for their guidance and support in developing and carrying out this work; to the Urban Farmer's Network for their role connecting, sharing, and discussing the future of urban farming.

Marc sits on the executive board for one of the urban farms and is a regular volunteer with two other organizations. This research was funded by the Foundation for International Exchange between Canada and the United States of America (Fulbright).

Citations

 Agriculture and Agri-Food Canada. "Canadian Horticulture Sector - Vegetable Sector"
 Arm Financial Survey 2009. Agriculture and Agri-Food Canada. Catalogue # 21F0008XWE.
 Retail Sales of Certified Organic Food Products in Canada, in 2006. Organic Agriculture Centre of Canada. 2007. http://oacc.info/Docs/RetailSales Organic_Canada2006.pdf