



MANUFACTURING

Economy - Sectors

Step 1: Understanding Yesterday and Today

Metropolitan Core Jobs & Economy Land Use Plan

Highlights

- 5% of Metro Core employment is in this sector.
- 25% of these jobs are in clothing manufacturing.
- The Metro Core has 52% of city jobs and 12% of regional jobs in this sector. This is a lower than average share.
- 54% of the Metro Core employees in this sector live in Vancouver.
- The Powell Street area has a larger number of these employees than any other Metro Core sub-area, and a higher percent of its jobs in this sector.



What is included in this sector?

The manufacturing sector is comprised of establishments that engage in the physical transformation of materials into new products. These products may take the form of finished goods ready for consumption by final users or semi-finished goods to be used in future manufacturing activities (*Statistics Canada*).

JOBS

How many people are employed in this sector?

In 2001, 10,700 people were employed in the manufacturing sector in the Metro Core. This is approximately 5% of all Metro Core employees. The largest employers in this sector in the Metro Core are: clothing manufacturers, food manufacturers, and printing and related support activities (Table 1).

Table 1: Jobs by type
(300 jobs or more in the Metro Core)

Sub-sector	Metro Core	
Clothing manufacturing	2,600	24%
Food manufacturing	1,605	15%
Printing and related support activities	1,415	13%
Miscellaneous manufacturing (e.g. jewellery, medical supplies, sporting goods, toys)	1,075	10%
Wood product manufacturing	550	5%
Paper manufacturing	405	4%
Beverage and tobacco product manufacturing	390	4%
Chemical manufacturing	380	4%
Fabricated metal product manufacturing	380	4%
Computer and electronic product manufacturing	305	3%
Total Manufacturing	10,675	100%

Statistics Canada 2001 Census: Jobs by NAICS (3 digit), 2001.xls. See Note 1.

How does this compare to the rest of the city and the region?

(a) Percent of total jobs

The manufacturing sector accounts for approximately 5% of all jobs in the Metro Core. This is substantially lower than the rest of the city and region where this sector accounts for approximately 9% and 12% of all employment respectively (Table 2).

	Metro Core	Rest of city	Rest of region
Total jobs	199,955	112,700	589,115
Number of people working in manufacturing	10,675	9,695	71,355
% of total jobs	5%	9%	12%

Statistics Canada 2001 Census. Jobs by NAICS (2 digit), 2001.xls

(b) Share of manufacturing jobs

The Metro Core has a lower than average share of city and regional jobs in this sector:

- 52% of city jobs in this sector are in the Metro Core (vs. 64% of all city jobs).
- 12% of regional jobs in this sector are in the Metro Core (vs. 22% of all regional jobs) (Table 3).

However, the Metro Core's share is higher than average in the following sub-sectors:

- Beverage and tobacco product manufacturing and paper product manufacturing have a higher than average city share.
- Clothing manufacturing has a higher than average regional share.

Table 3: Share of city and regional jobs (500 employees or more city wide)

	Metro Core's share of city	City total	Metro Core's share of region	Region total
Beverage and tobacco product manufacturing	75%*	520	18%	2,145
Paper manufacturing	70%*	580	10%	3,885
Miscellaneous manufacturing (e.g. jewellery, medical supplies, sporting goods, toys)	66%*	1,635	20%	5,390
Fabricated metal product manufacturing	62%	610	5%	7,195
Chemical manufacturing	60%	630	14%	2,775
Clothing manufacturing	59%	4,395	43%*	6,035
Printing and related support activities	57%	2,475	23%*	6,270
Computer and electronic product manufacturing	54%	560	5%	5,925
Furniture and related product manufacturing	41%	660	6%	4,340
Food manufacturing	38%	4,190	13%	12,435
Wood product manufacturing	38%	1,450	6%	9,990
Total manufacturing	52%	20,350	12%	91,705
All sectors total	64%	312,660	22%	901,775

Statistics Canada 2001 Census: Jobs by NAICS (4 digit), 2001.xls. Note: * indicates share is greater than 64% of city jobs and 22% of regional jobs.

How has this employment changed over time?

The analysis of economic sectors over time is limited due to changes to the industrial classification methods used by Statistics Canada over the past 25 years. In 1981, the majority of jobs within the manufacturing sector were classified in the “manufacturing industries” sector. From 1981 to 2001, manufacturing sector jobs in the Metro Core decreased by 40%, compared to a 14% increase for all jobs (Table 4).

	1981	2001	% change
Total jobs	193,846	221,246	14%
manufacturing industries jobs	20,387	12,173	-40%

Statistics Canada 1981& 2001 Census: Jobs by SIC, 1981 to 2001.xls. See Note 2.

Who is working in this sector and what do they do?

Women occupy 47% of the positions in this sector in the Metro Core. This is higher than the rest of the City of Vancouver, where women hold 40% of manufacturing jobs, and much higher than the rest of the region, with 26% of manufacturing jobs held by women. Overall, women occupy 50% of all jobs in the region.

Fulltime workers hold 90% of manufacturing jobs in the Metro Core. This is similar to the rest of the city and region where 86% and 90% of workers are employed full time, respectively. Overall, 77% of all jobs in the region provide full time work (*Statistics Canada 2001 Census: Jobs by NAICS (2-digit and 4-digit) by work activity by sex.xls*).

Over one third (35%) of the people employed in the manufacturing sector in the Metro Core work in occupations unique to processing, manufacturing and utilities (Table 5).

Table 5: Occupations (400 employees or more in the Metro Core)

Occupations unique to processing, manufacturing and utilities	3,740	35%
Trades, transport and equipment operators and related occupations	1,660	16%
Business, finance and administrative occupations	1,595	15%
Management occupations	1,265	12%
Sales and service occupations	860	8%
Natural and applied sciences and related occupations	705	7%
Occupations in art, culture, recreation and sport	440	4%
Total	10,675	100%

Statistics Canada 2001 Census: Jobs by NAICS by Occupation, 2001.xls.

Where do employees in this sector live?

Approximately 54% of employees in the Metro Core manufacturing sector reside in the City of Vancouver. This is the same proportion as that across all Metro Core sectors (Table 6).

Table 6: Where Metro Core workers live (areas with 600 or more residents employed in this sector in the Metro Core)

Vancouver*	5,740	54%
Burnaby/New West	1,235	12%
South of Fraser	980	9%
NE Sector	750	7%
Richmond	750	7%
North Shore	680	6%
Total	10,675	100%

*Statistics Canada 2001 Census: Jobs by NAICS by POR, Metro Core, 2001.xls. Note: * includes people who work at home in this sector in the Metro Core.*

BUSINESSES

How many businesses are in this sector and what size are they?

There are over 900 business establishments in the manufacturing sector in the Metro Core. This is 3% of all Metro Core businesses (vs. 5% of all Metro Core employment).

Statistics Canada lists many businesses as indeterminate in size (34% in this sector - see Note 3). Of those for which size is known (Table 7):

- Almost 90% have less than 50 employees
- 29 have over 100 employees

How do these businesses compare to the rest of the city and the region?

When compared to manufacturing businesses in the rest of the city and region, businesses in the Metro Core tend to operate at a similar scale (Table 7).

# of employees	Metro Core		Rest of city		Rest of region	
1-4	270	43%	299	47%	1,690	43%
5-19	187	30%	176	28%	1,166	30%
20-49	93	15%	88	14%	561	14%
50-99	44	7%	33	5%	267	7%
100-499	28	4%	35	6%	198	5%
500+	1	0%	2	0%	12	0%
Total	623	100%	633	100%	3,894	100%

Statistics Canada: *Businesses by NAICS (2-digit) by Size, 2001.xls*.

SPACE AND LOCATION

How many people work from home in this sector?

Of those people employed in this sector in the Metro Core, 2% work from home (Table 8).

	Metro Core	City	GVRD
Total	10,655	20,350	91,705
Work at home	190	725	3,715
%	2%	4%	4%
% across all sectors	3%	7%	9%

Statistics Canada: *Jobs by NAICS (2 digit), 2001.xls*.
 Note: Figures above do not include employees with no fixed place of work.

Where in the Metro Core is this sector located?

The largest numbers of manufacturing jobs by employment area are:

- Powell Street 2,400 jobs
- Clark Drive 1,900 jobs
- Mount Pleasant 1,900 jobs
- Central Business District 1,700 jobs (Table 9a and Figure 1 on 2nd last page)

Table 9a: Share of sector jobs in key employment areas
 (for industry groups with over 200 employees in the Metro Core)

	Powell Street	Clark Drive	Mount Pleasant	Central Business District
Food, Beverage and Tobacco	44%	7%	3%	4%
Textile Clothing and Leather	31%	54%	54%	2%
Wood Product and Paper	1%	1%	1%	47%
Printing and related support activities	2%	8%	16%	18%
Petroleum, Chemical, Plastic and Non-metallic mineral manufacturing	2%	12%	4%	15%
Fabricated Metal, Machinery, Computer, Appliance, Transportation Equipment	8%	12%	14%	7%
Furniture and Miscellaneous	12%	6%	7%	9%
Total	100%	100%	100%	100%

Statistics Canada 2001 Census-- *Jobs by NAICS (3-digit), Employment Areas, 2001.xls*

Overall, 5% of Metro Core jobs are in manufacturing. Sub-areas where this sector comprises significantly more than 5% are:

- Powell Street (38%)
- Clark Drive (36%)
- Mount Pleasant (27%) (see Table 9b on second last page).

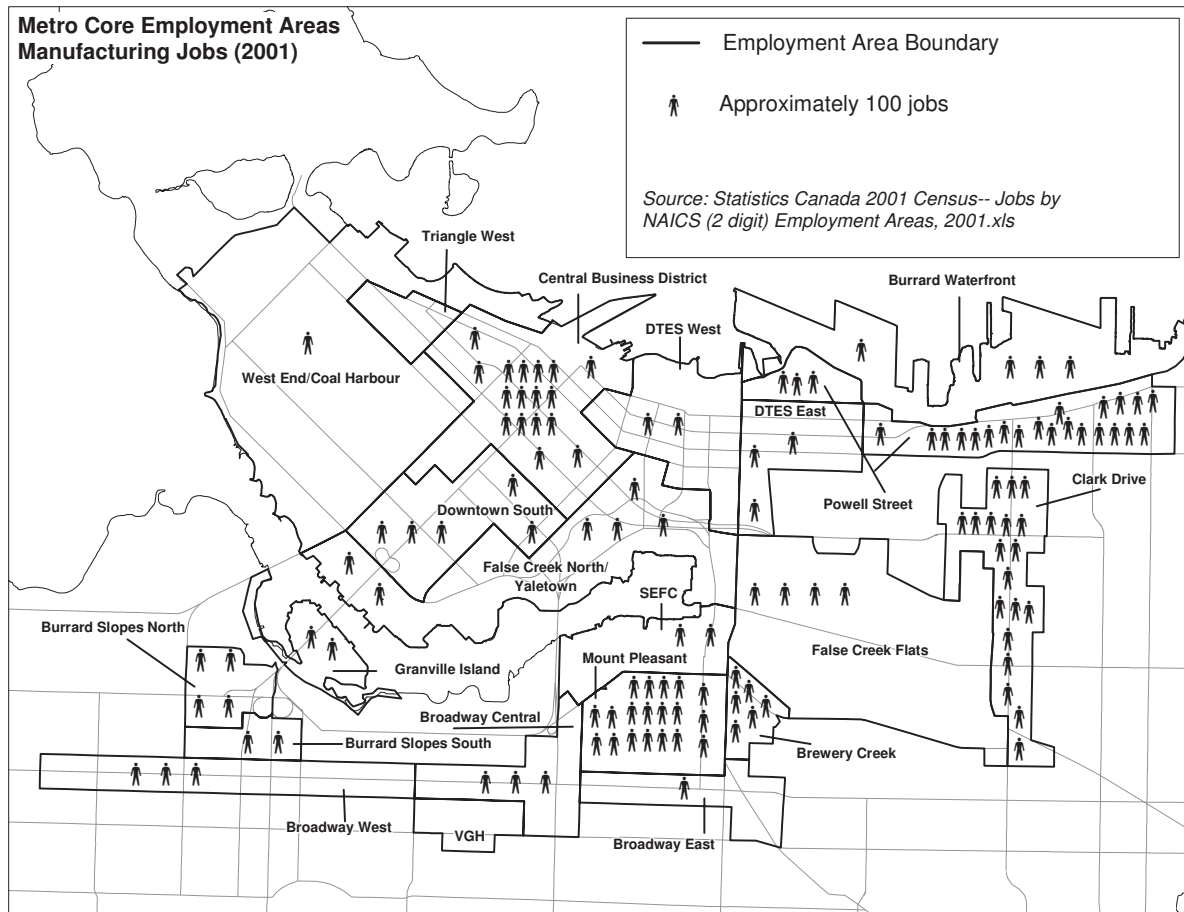
What types of space does this sector occupy?

Observation suggests that spaces occupied by this sector vary considerably across industries. The types of spaces range from food manufacturing plants to the head offices of paper companies in the central business district.

WHAT ELSE DO WE KNOW ABOUT THE ECONOMIC ROLE OF THIS SECTOR?

The manufacturing sector typically generates 12% of British Columbia's Gross Domestic Product and accounts for 10% of employees in BC. This is higher than the Metro Core where 5% of all employees work in this sector (*BC Stats-- BC GDP by Industry and BC Employment by Industry*).

Figure 1: Distribution of jobs



Powell Street	38%	False Creek Flats	9%	Broadway West	3%
Clark Drive	36%	Granville Island	6%	Broadway Central	2%
Mount Pleasant	27%	Burrard Slopes South	6%	Central Business District	2%
Brewery Creek	24%	False Creek North/Yaletown	6%	Downtown South	2%
Burrard Waterfront	23%	DTES East	5%	Triangle West	1%
SE False Creek	19%	Broadway East	4%	West End/Coal Harbour	1%
Burrard Slopes North	15%	DTES West	3%	VGH	0%

Statistics Canada 2001 Census-- Jobs by NAICS (2-digit), Employment Areas, 2001.xls. Note: Available data for the Burrard Waterfront employment area covers a geography that exceeds the boundaries of the Metro Core.

Sources / Contacts

Sources of information are recorded throughout this Information Sheet. Additional notes are provided here:

1) In this paper, NAICS refers to the 1997 North American Industrial Classification System, which was the system used by Statistics Canada in 2001 to categorize jobs and businesses by industry sector.

2) Re: Table 4 - Data in this table are categorized according to 1980 SIC (Standard Industrial Classification). SIC was the classification method used by Statistics Canada prior to the 2001 Census. The job totals in Table 4 are higher because they include an estimate of jobs with no fixed place of work. This estimate is reached by assigning to the Metro Core a share of the workers with no fixed place of work. The share is determined on a sector by sector basis and is based on the number of workers with a known place of work.

3) Re: Table 7 - Businesses in the “indeterminate” category have no employees registered on the payroll. They may have contract workers, or no workers at all. “Indeterminate” does not equate with “self-employed”. Self-employed businesses may be in either category.

This Information Sheet was published by the City of Vancouver. It is one in a series of Information Sheets produced for the Metropolitan Core Jobs and Economy Land Use Plan. The purpose of this initiative is to develop a long term land use policy plan to accommodate future economic activity and jobs in the Metro Core. For further information, please e-mail corejobs@vancouver.ca or visit the website www.vancouver.ca/corejobs