

Monday, November 21, 1994

For release at 8:30 a.m.

## **MAJOR RELEASES**

- Wholesale trade, September 1994
   After seven consecutive monthly gains, sales in September were relatively unchanged from August, dropping 0.2% to \$19.6 billion. Although wholesalers' total sales eased in September, expansion continued for suppliers of manufacturers.
- Employment generation by small firms and manufacturers, 1970-1992
   Over the past 15 years, small Canadian manufacturing plants, particularly those with fewer than 20 employees, have had consistently higher rates of job growth than larger firms. They also did far better at creating jobs than similar plants in the United States.

### OTHER RELEASES

University enrolment, 1994-95

Sales of natural gas, September 1994

Civil aviation statistics, third quarter 1994

Tea, coffee and cocoa, September 1994

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## **PUBLICATION RELEASED**

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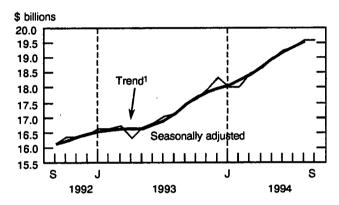
#### **MAJOR RELEASES**

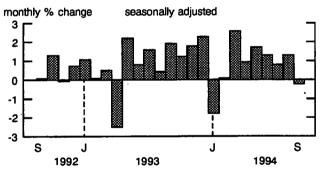
#### Wholesale trade

September 1994 (preliminary)

After seven consecutive monthly gains, sales in September were relatively unchanged from August, dropping 0.2% to \$19.6 billion. Although wholesalers' total sales eased in September, expansion continued for suppliers of manufacturers.

#### Wholesale merchants' sales





The short-term trend represents a weighted average of data.

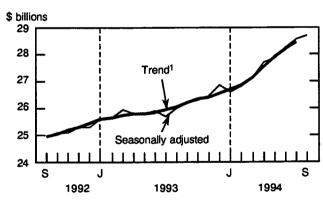
In September four of nine major groups, accounting for half of all sales, recorded increases. Posting the strongest month-over-month performances were distributors of non-farm machinery and equipment (+1.2%) and wholesalers of other products (+1.7%) —includes agricultural and industrial chemicals, books, newspaper and other products. Offsetting the growth were declines in food, beverage, drug and tobacco products, which represent about 24% of sales.

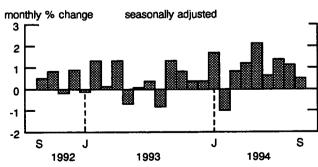
Business spending on machinery and equipment continues to support the strong growth of the wholesale sector in 1994. Typically accounting for one-quarter of all sales, these suppliers provide essential capital goods used in production. Between January and September, sales have been increasing an average of 1% a month, suggesting that businesses are modernizing production processes. Increased sales of supplies to manufacturers, such as chemicals sold by wholesalers of other products, have complemented this demand for new equipment.

#### Inventory inches up

Inventories (\$28.7 billion in September) are slightly higher than in August (+0.5%). The buildup was mostly attributable to increases in the food (+1.9%), farm machinery (+2.7%) and other (industrial) machinery (+0.6%) sectors. The inventories to sales ratio at the end of September increased to 1.46:1 from 1.45:1 at the end of August.

#### Wholesale merchants' inventories





The short-term trend represents a weighted average of data.

Available on CANSIM: matrices 59, 61, 648 and 649.

The September 1994 issue of *Wholesale trade* (63-008, \$16/\$160) will be available the second week of December. See "How to order publications".

For further information, contact Catherine Mamay (613-951-9683) or Gilles Simard (613-951-3541), Industry Division.

Wholesale merchants'	sales and inven	tories					
	Sept. 1993	June 1994 <sup>r</sup>	July 1994 <sup>r</sup>	Aug. 1994 <sup>r</sup>	Sept. 1994P	Aug. 1994 <sup>r</sup> to Sept. 1994 <sup>p</sup>	Sept. 1993 to Sept. 1994
			SE	easonally adjus	ted		
		d millions 94 phone			change		

Trade group	\$ millions  4,705 479 603 2,178 1,506 1,750 454 4,534 3,153	4,702 466 640 2,252 1,560 1,789 463	4,611 464 605 2,249 1,564 1,756	-1.9 -0.6 -5.5 -0.2	3.4 0.9 3.2 18.0
Trade group Food, beverage, drug and tobacco products 4,460 4,640 Apparel and dry goods 459 510 Household goods 586 619 Motor vehicles, parts and accessories 1,906 2,158 Metals, hardware, plumbing and heating equipment and supplies 1,249 1,471 Lumber and building materials 1,635 1,728 Farm machinery, equipment and supplies 390 423 Other machinery, equipment and supplies 3,984 4,461 Other products 2,738 3,203  Total, all trades 17,408 19,212  Provinces and territories Newfoundland 173 185 Prince Edward Island 37 46 Nova Scotia 386 406 New Brunswick 237 277 Quebec 4,123 4,363 Ontario 7,165 8,027 Manitoba 559 642 Saskatchewan 520 607 Manitoba 559 642 Saskatchewan 520 607 Alberta 1,636 1,820 British Columbia 2,548 2,816 Yukon and Northwest Territories 23 22  Inventories  Trade group Food, beverage, drug and tobacco products parts and accessories Metals, hardware, plumbing and heating equipment and supplies 2,261 2,533	479 603 2,178 1,506 1,750 454 4,534	466 640 2,252 1,560 1,789	464 605 2,249 1,564 1,756	-0.6 -5.5 -0.2	0.9 3.2 18.0
Food, beverage, drug and tobacco products	479 603 2,178 1,506 1,750 454 4,534	466 640 2,252 1,560 1,789	464 605 2,249 1,564 1,756	-0.6 -5.5 -0.2	0.9 3.2 18.0
tobacco products	479 603 2,178 1,506 1,750 454 4,534	466 640 2,252 1,560 1,789	464 605 2,249 1,564 1,756	-0.6 -5.5 -0.2	0.9 3.2 18.0
Apparel and dry goods	479 603 2,178 1,506 1,750 454 4,534	466 640 2,252 1,560 1,789	464 605 2,249 1,564 1,756	-0.6 -5.5 -0.2	0.9 3.2 18.0
Household goods	603 2,178 1,506 1,750 454 4,534	640 2,252 1,560 1,789	605 2,249 1,564 1,756	-5.5 -0.2 0.3	3.2 18.0
Motor vehicles, parts and accessories  Metals, hardware, plumbing and heating equipment and supplies  Lumber and building materials  Farm machinery, equipment and supplies  Other machinery, equipment and supplies  Other machinery, equipment and supplies  Other products  Total, all trades  Total, all trades  Total, all trades  Prince Edward Island Nova Scotia New Brunswick  Ontario  New Brunswick  Ontario  Total  Ontario  Total  Tota	2,178 1,506 1,750 454 4,534	2,252 1,560 1,789	2,249 1,564 1,756	-0.2 0.3	18.0
accessories  Metals, hardware, plumbing and heating equipment and supplies  Lumber and building materials  Farm machinery, equipment and supplies  Other machinery, equipment and supplies  Other products  Total, all trades  Provinces and territories  Newfoundland  Prince Edward Island  Nova Scotia  New Brunswick  Quebec  4,123  Ontario  Ontario  Alberta  British Columbia  Prince group  Food, beverage, drug and tobacco products  1,906  1,249  1,471	1,506 1,750 454 4,534	1,560 1,789	1,564 1,756	0.3	
Metals, hardware, plumbing and heating equipment and supplies 1,249 1,471 Lumber and building materials 1,635 1,728 Farm machinery, equipment and supplies 390 423 Other machinery, equipment and supplies 3,984 4,461 Other products 2,738 3,203  Total, all trades 17,408 19,212  Provinces and territories Newfoundland 173 185 Prince Edward Island 37 46 Nova Scotia 386 406 New Brunswick 237 277 Quebec 4,123 4,363 Ontario 7,165 8,027 Manitoba 559 642 Saskatchewan 520 607 Alberta 1,636 1,820 British Columbia 2,548 2,816 Yukon and Northwest Territories 23 22  Inventories  Trade group Food, beverage, drug and tobacco products 3,271 3,520 Apparel and dry goods 1,071 1,044 Household goods 3,626 Metals, hardware, plumbing and heating equipment and supplies 2,261 2,533	1,506 1,750 454 4,534	1,560 1,789	1,564 1,756	0.3	
equipment and supplies 1,249 1,471 Lumber and building materials 1,635 1,728 Farm machinery, equipment and supplies 390 423 Other machinery, equipment and supplies 3,984 4,461 Other products 2,738 3,203  Total, all trades 17,408 19,212  Provinces and territories Newfoundland 173 185 Prince Edward Island 37 46 Nova Scotia 386 406 New Brunswick 237 277 Quebec 4,123 4,363 Ontario 7,165 8,027 Manitoba 559 642 Saskatchewan 520 607 Alberta 1,636 1,820 British Columbia 2,548 2,816 Yukon and Northwest Territories 23 22  Inventories  Trade group Food, beverage, drug and tobacco products 3,271 3,520 Apparel and dry goods 1,071 1,044 Household goods 1,344 1,270 Motor vehicles, parts and accessories Metals, hardware, plumbing and heating equipment and supplies 2,261 2,533	1,750 454 4,534	1,789	1,756		
equipment and supplies 1,249 1,471 Lumber and building materials 1,635 1,728 Farm machinery, equipment and supplies 390 423 Other machinery, equipment and supplies 3,984 4,461 Other products 2,738 3,203  Total, all trades 17,408 19,212  Provinces and territories Newfoundland 173 185 Prince Edward Island 37 46 Nova Scotia 386 406 New Brunswick 237 277 Quebec 4,123 4,363 Ontario 7,165 8,027 Manitoba 559 642 Saskatchewan 520 607 Alberta 1,636 1,820 British Columbia 2,548 2,816 British Columbia 2,548 2,816 British Columbia 3,271 3,520 Apparel and dry goods 1,071 1,044 Household goods 3,624 3,626 Metals, hardware, plumbing and heating equipment and supplies 2,261 2,533	1,750 454 4,534	1,789	1,756		
Lumber and building materials       1,635       1,728         Farm machinery, equipment and supplies       390       423         Other machinery, equipment and supplies       3,984       4,461         Other products       2,738       3,203         Total, all trades       17,408       19,212         Provinces and territories       173       185         Newfoundland       173       185         Prince Edward Island       37       46         Nova Scotia       386       406         New Brunswick       237       277         Quebec       4,123       4,363         Ontario       7,165       8,027         Manitoba       559       642         Saskatchewan       520       607         Alberta       1,636       1,820         British Columbia       2,548       2,816         Yukon and Northwest Territories       23       22         Inventories         Trade group         Food, beverage, drug and tobacco       3,271       3,520         Apparel and dry goods       1,071       1,044         Household goods       1,344       1,270         Motor vehicles, parts and accessories	1,750 454 4,534	1,789	1,756	_	25.2
Farm machinery, equipment and supplies 390 423  Other machinery, equipment and supplies 3,984 4,461  Other products 2,738 3,203  Total, all trades 17,408 19,212  Provinces and territories  Newfoundland 173 185  Prince Edward Island 37 46  Nova Scotia 386 406  New Brunswick 237 277  Quebec 4,123 4,363  Ontario 7,165 8,027  Manitoba 559 642  Saskatchewan 520 607  Alberta 1,636 1,820  British Columbia 2,548 2,816  Yukon and Northwest Territories 23 22  Inventories  Trade group  Food, beverage, drug and tobacco products 3,271 3,520  Apparel and dry goods 1,071 1,044  Household gcods 1,344 1,270  Motor vehicles, parts and accessories 3,624 3,626  Metals, hardware, plumbing and heating equipment and supplies 2,261 2,533	454 4,534		·	-1.8	7.4
and supplies 390 423  Other machinery, equipment and supplies 3,984 4,461  Other products 2,738 3,203  Total, all trades 17,408 19,212  Provinces and territories  Newfoundland 173 185  Prince Edward Island 37 46  Nova Scotia 386 406  New Brunswick 237 277  Quebec 4,123 4,363  Ontario 7,165 8,027  Manitoba 559 642  Saskatchewan 520 607  Alberta 1,636 1,820  British Columbia 2,548 2,816  Yukon and Northwest Territories 23 22  Inventories  Trade group  Food, beverage, drug and tobacco products 3,271 3,520  Apparel and dry goods 1,071 1,044  Household gcods 1,344 1,270  Motor vehicles, parts and accessories Metals, hardware, plumbing and heating equipment and supplies 2,261 2,533	4,534	463			
Other machinery, equipment and supplies         3,984         4,461           Other products         2,738         3,203           Total, all trades         17,408         19,212           Provinces and territories         Newfoundland         173         185           Prince Edward Island         37         46           Nova Scotia         386         406           New Brunswick         237         277           Quebec         4,123         4,363           Ontario         7,165         8,027           Manitoba         559         642           Saskatchewan         520         607           Alberta         1,636         1,820           British Columbia         2,548         2,816           Yukon and Northwest Territories         23         22           Inventories           Trade group           Food, beverage, drug and tobacco         3,271         3,520           Apparel and dry goods         1,071         1,044           Household goods         1,344         1,270           Motor vehicles, parts and accessories         3,624         3,626           Metals, hardware, plumbing and heating equipment and supplies         2,261	4,534	,,,,	476	2.9	22.0
and supplies       3,984       4,461         Other products       2,738       3,203         Total, all trades       17,408       19,212         Provinces and territories         Newfoundland       173       185         Prince Edward Island       37       46         Nova Scotia       386       406         New Brunswick       237       277         Quebec       4,123       4,363         Ontario       7,165       8,027         Manitoba       559       642         Saskatchewan       520       607         Alberta       1,636       1,820         British Columbia       2,548       2,816         Yukon and Northwest Territories       23       22         Inventories         Trade group         Food, beverage, drug and tobacco       3,271       3,520         Apparel and dry goods       1,071       1,044         Household goods       1,344       1,270         Motor vehicles, parts and accessories       3,624       3,626         Metals, hardware, plumbing and heating equipment and supplies       2,261       2,533	,				
Other products         2,738         3,203           Total, all trades         17,408         19,212           Provinces and territories           Newfoundland         173         185           Prince Edward Island         37         46           Nova Scotia         386         406           New Brunswick         237         277           Quebec         4,123         4,363           Ontario         7,165         8,027           Manitoba         559         642           Saskatchewan         520         607           Alberta         1,636         1,820           British Columbia         2,548         2,816           Yukon and Northwest Territories         23         22           Inventories         23         22           Inventories         3,271         3,520           Apparel and dry goods         1,071         1,044           Household goods         1,344         1,270           Motor vehicles, parts and accessories         3,624         3,626           Metals, hardware, plumbing and heating equipment and supplies         2,261         2,533	,	4,544	4.599	1,2	15.4
Provinces and territories         17,408         19,212           Provinces and territories         173         185           Newfoundland         37         46           Nova Scotia         386         406           New Brunswick         237         277           Quebec         4,123         4,363           Ontario         7,165         8,027           Manitoba         559         642           Saskatchewan         520         607           Alberta         1,636         1,820           British Columbia         2,548         2,816           Yukon and Northwest Territories         23         22           Inventories           Trade group         Food, beverage, drug and tobacco products         3,271         3,520           Apparel and dry goods         1,071         1,044           Household goods         1,344         1,270           Motor vehicles, parts and accessories         3,624         3,626           Metals, hardware, plumbing and heating equipment and supplies         2,261         2,533	3,133	3,195	3,250	1.7	18.7
Provinces and territories           Newfoundland         173         185           Prince Edward Island         37         46           Nova Scotia         386         406           New Brunswick         237         277           Quebec         4,123         4,363           Ontario         7,165         8,027           Manitoba         559         642           Saskatchewan         520         607           Alberta         1,636         1,820           British Columbia         2,548         2,816           Yukon and Northwest Territories         23         22           Inventories           Trade group           Food, beverage, drug and tobacco         3,271         3,520           Apparel and dry goods         1,071         1,044           Household goods         1,344         1,270           Motor vehicles, parts and accessories         3,624         3,626           Metals, hardware, plumbing and heating equipment and supplies         2,261         2,533		3,193	3,230	1.7	10.7
Newfoundland         173         185           Prince Edward Island         37         46           Nova Scotia         386         406           New Brunswick         237         277           Quebec         4,123         4,363           Ontario         7,165         8,027           Manitoba         559         642           Saskatchewan         520         607           Alberta         1,636         1,820           British Columbia         2,548         2,816           Yukon and Northwest Territories         23         22           Inventories           Trade group           Food, beverage, drug and tobacco         3,271         3,520           Apparel and dry goods         1,071         1,044           Household goods         1,344         1,270           Motor vehicles, parts and accessories         3,624         3,626           Metals, hardware, plumbing and heating equipment and supplies         2,261         2,533	19,361	19,611	19,573	-0.2	12.4
Prince Edward Island         37         46           Nova Scotia         386         406           New Brunswick         237         277           Quebec         4,123         4,363           Ontario         7,165         8,027           Manitoba         559         642           Saskatchewan         520         607           Alberta         1,636         1,820           British Columbia         2,548         2,816           Yukon and Northwest Territories         23         22           Inventories           Trade group         Food, beverage, drug and tobacco products         3,271         3,520           Apparel and dry goods         1,071         1,044           Household goods         1,344         1,270           Motor vehicles, parts and accessories         3,624         3,626           Metals, hardware, plumbing and heating equipment and supplies         2,261         2,533					
Nova Scotia         386         406           New Brunswick         237         277           Quebec         4,123         4,363           Ontario         7,165         8,027           Manitoba         559         642           Saskatchewan         520         607           Alberta         1,636         1,820           British Columbia         2,548         2,816           Yukon and Northwest Territories         23         22           Inventories           Trade group         Food, beverage, drug and tobacco products         3,271         3,520           Apparel and dry goods         1,071         1,044           Household goods         1,344         1,270           Motor vehicles, parts and accessories         3,624         3,626           Metals, hardware, plumbing and heating equipment and supplies         2,261         2,533	191	179	175	-2.4	0.7
New Brunswick         237         277           Quebec         4,123         4,363           Ontario         7,165         8,027           Manitoba         559         642           Saskatchewan         520         607           Alberta         1,636         1,820           British Columbia         2,548         2,816           Yukon and Northwest Territories         23         22           Inventories           Trade group         Food, beverage, drug and tobacco products         3,271         3,520           Apparel and dry goods         1,071         1,044           Household goods         1,344         1,270           Motor vehicles, parts and accessories         3,624         3,626           Metals, hardware, plumbing and heating equipment and supplies         2,261         2,533	48	47	47	0.9	28.2
Quebec         4,123         4,363           Ontario         7,165         8,027           Manitoba         559         642           Saskatchewan         520         607           Alberta         1,636         1,820           British Columbia         2,548         2,816           Yukon and Northwest Territories         23         22           Inventories           Trade group         Food, beverage, drug and tobacco products         3,271         3,520           Apparel and dry goods         1,071         1,044           Household goods         1,344         1,270           Motor vehicles, parts and accessories         3,624         3,626           Metals, hardware, plumbing and heating equipment and supplies         2,261         2,533	409	413	402	-2.7	3.9
Quebec       4,123       4,363         Ontario       7,165       8,027         Manitoba       559       642         Saskatchewan       520       607         Alberta       1,636       1,820         British Columbia       2,548       2,816         Yukon and Northwest Territories       23       22         Inventories         Trade group       Food, beverage, drug and tobacco products       3,271       3,520         Apparel and dry goods       1,071       1,044         Household goods       1,344       1,270         Motor vehicles, parts and accessories       3,624       3,626         Metals, hardware, plumbing and heating equipment and supplies       2,261       2,533	264	266	268	0.4	13.0
Ontario         7,165         8,027           Manitoba         559         642           Saskatchewan         520         607           Alberta         1,636         1,820           British Columbia         2,548         2,816           Yukon and Northwest Territories         23         22           Inventories           Trade group         Food, beverage, drug and tobacco products         3,271         3,520           Apparel and dry goods         1,071         1,044           Household goods         1,344         1,270           Motor vehicles, parts and accessories         3,624         3,626           Metals, hardware, plumbing and heating equipment and supplies         2,261         2,533	4,377	4,357	4,302	-1.3	4.3
Manitoba         559         642           Saskatchewan         520         607           Alberta         1,636         1,820           British Columbia         2,548         2,816           Yukon and Northwest Territories         23         22           Inventories           Trade group         Food, beverage, drug and tobacco products         3,271         3,520           Apparel and dry goods         1,071         1,044           Household goods         1,344         1,270           Motor vehicles, parts and accessories         3,624         3,626           Metals, hardware, plumbing and heating equipment and supplies         2,261         2,533	8,147	8,341	8,355	0.2	16.6
Saskatchewan 520 607 Alberta 1,636 1,820 British Columbia 2,548 2,816 Yukon and Northwest Territories 23 22  Inventories  Trade group Food, beverage, drug and tobacco products 3,271 3,520 Apparel and dry goods 1,071 1,044 Household goods 1,344 1,270 Motor vehicles, parts and accessories 3,624 3,626 Metals, hardware, plumbing and heating equipment and supplies 2,261 2,533	629	651	661	1.6	18.3
Alberta 1,636 1,820 British Columbia 2,548 2,816 Yukon and Northwest Territories 23 22  Inventories  Trade group Food, beverage, drug and tobacco products 3,271 3,520 Apparel and dry goods 1,071 1,044 Household gcods 1,344 1,270 Motor vehicles, parts and accessories 3,624 3,626 Metals, hardware, plumbing and heating equipment and supplies 2,261 2,533	578	600	613	2.1	17.8
British Columbia 2,548 2,816 Yukon and Northwest Territories 23 22  Inventories  Trade group Food, beverage, drug and tobacco products 3,271 3,520 Apparel and dry goods 1,071 1,044 Household goods 1,344 1,270 Motor vehicles, parts and accessories 3,624 3,626 Metals, hardware, plumbing and heating equipment and supplies 2,261 2,533	1,859	1.885	1,918	1.7	17.2
Yukon and Northwest Territories 23 22  Inventories  Trade group  Food, beverage, drug and tobacco products 3,271 3,520  Apparel and dry goods 1,071 1,044  Household goods 1,344 1,270  Motor vehicles, parts and accessories 3,624 3,626  Metals, hardware, plumbing and heating equipment and supplies 2,261 2,533	2,834	2,849	2,813	-1.3	10.4
Inventories  Trade group Food, beverage, drug and tobacco products 3,271 3,520 Apparel and dry goods 1,071 1,044 Household goods 1,344 1,270 Motor vehicles, parts and accessories 3,624 3,626 Metals, hardware, plumbing and heating equipment and supplies 2,261 2,533	25	22	19	-10.0	-14.9
Trade group Food, beverage, drug and tobacco products 3,271 3,520 Apparel and dry goods 1,071 1,044 Household goods 1,344 1,270 Motor vehicles, parts and accessories 3,624 3,626 Metals, hardware, plumbing and heating equipment and supplies 2,261 2,533					
Food, beverage, drug and tobacco products 3,271 3,520  Apparel and dry goods 1,071 1,044  Household goods 1,344 1,270  Motor vehicles, parts and accessories 3,624 3,626  Metals, hardware, plumbing and heating equipment and supplies 2,261 2,533					
products 3,271 3,520 Apparel and dry goods 1,071 1,044 Household goods 1,344 1,270 Motor vehicles, parts and accessories 3,624 3,626 Metals, hardware, plumbing and heating equipment and supplies 2,261 2,533					
Apparel and dry goods 1,071 1,044 Household goods 1,344 1,270 Motor vehicles, parts and accessories 3,624 3,626 Metals, hardware, plumbing and heating equipment and supplies 2,261 2,533				4.0	40.7
Household goods 1,344 1,270 Motor vehicles, parts and accessories 3,624 3,626 Metals, hardware, plumbing and heating equipment and supplies 2,261 2,533	3,589	3,651	3,719	1.9	13.7
Motor vehicles, parts and accessories 3,624 3,626  Metals, hardware, plumbing and heating equipment and supplies 2,261 2,533	1,088	1,127	1,111	-1.4	3.8
Metals, hardware, plumbing and heating equipment and supplies 2,261 2,533	1,279	1,279	1,289	0.8	-4.1
equipment and supplies 2,261 2,533	3,696	3,666	3,672	0.1	1.3
Adaptement and exhibited	,				
	2,549	2,556	2,570	0.5	13.6
	2,892	2,894	2,883	-0.4	5.9
Farm machinery, equipment and supplies 1,201 1,476	£,00£	1,559	1,601	2.7	33.3
Other machinery, equipment and	-	,	• • • •		
supplies 7,029 7,693	1,515	7,981	8,026	0.6	14.2
Other products 3,464 3,828	1,515	3,810	3,803	-0.2	9.8
Total, all trades 25,989 27,823	-	28,522	28,674	0.5	10.3

P Preliminary figures.

Revised figures.

	September 1993	August 1994 <sup>r</sup>	September 1994P	September 1993 to September 1994 P
		una	djusted	
		\$ millior	is	% change
Sales				
Trade group				
Food, beverage, drug and tobacco products	4,661	4,884	4,785	2.7
Apparel and dry goods	561	630	577	2.9
Household goods	699	682	736	5.0
Motor vehicles, parts and accessories	2,056	2,262	2,403	16.9
Metals, hardware, plumbing and heating	·			
equipment and supplies	1,336	1,674	1,691	26.9
Lumber and building materials	1,874	2,080	2.011	7.3
Farm machinery, equipment and supplies	407	534	484	19.0
Other machinery, equipment and supplies	4.133	4,418	4,827	16.8
Other products	2,791	3,090	3,315	18.8
Total, all trades	18,517	20,254	20,829	12.
Provinces and territories				
Newfoundland	196	196	196	-0.
Prince Edward Island	39	49	48	23.
Nova Scotia	405	430	429	6.1
New Brunswick	255	290	293	14.
Quebec	4,588	4,667	4,780	4.
Ontario	7,575	8,470	8,839	16.
Manitoba	578	671	695	20.
Saskatchewan	546	650	658	20.
Alberta	1,671	1,925	1,974	18.
British Columbia	2,637	2,884	2,896	9.
Yukon and Northwest Territories	27	24	23	-16.
Inventories				
Trade group	2.47	0.004	0.700	14.
Food, beverage, drug and tobacco products	3,317	3,694	3,793	14. 5.
Apparel and dry goods	1,057	1,179	1,109	
Household goods	1,344	1,338	1,343	-0. 1.
Motor vehicles, parts and accessories	3,592	3,608	3,631	1.
Metals, hardware, plumbing and heating			0.50-	40
equipment and supplies	2,275	2,569	2,565	12
Lumber and building materials	2,638	2,812	2,761	4.
Farm machinery, equipment and supplies	1,152	1,562	1,563	35.
Other machinery, equipment and supplies	6,945	8,047	7,971	14.
Other products	3,427	3,714	3,762	9.
Total, all trades	25,747	28,524	28,499	10.

Preliminary figures.
 Revised figures.

# Employment generation by small firms and manufacturers

1970-1992

Throughout the last decade, claims have been made about the amount of job creation associated with small plants and firms. It has been argued that small plants have created a disproportionate number of new jobs. Recently this claim has been challenged in the United States. It has been argued that the importance of small plants is a statistical illusion due to measurement error.

Small companies, particularly those with fewer than 20 employees, were a dynamic force in job creation in Canada over the past 15 years. Smaller companies consistently had higher rates of job growth than larger companies, they also had larger rates of job loss. More important, job growth surpassed job losses far more among small Canadian companies than among companies with considerably more employees.

At the same time, small Canadian manufacturing plants were far better at creating jobs than were similar plants in the United States. Over the two decades, Canadian plants had consistently higher rates of job gains and job losses, and higher net employment growth, than did small U.S. manufacturing plants.

## Small Canadian companies lead the way in job creation

Smaller Canadian companies lose jobs at a higher rate than larger firms. But they create jobs at a higher rate as well. Among the smallest Canadian companies, those with fewer than 20 employees, the annual rate of job creation over the last two decades (26%) has far exceeded the annual rate of job losses (18%), yielding an 8% annual growth rate in net employment.

Job creation and job loss rates by firm size\* Annual weighted average from 1978 to 1992

Firm size	Job gain	Job loss	Net change**
Number of employees		%	
0 to 19	26.5	18.4	8.0
20 to 49	14.9	14.7	0.2
50 to 99	13.0	13.8	-0.8
100 to 499	11.1	11.9	-0.8
500 +	5.9	7.1	-1.2

<sup>\*</sup>See note to users box for definitions.
\*Figures may not add due to rounding.

#### Note to users

This release is based on two reports that investigate differences in job creation 1) between large and small companies in the entire economy and 2) between large and small plants in the manufacturing sector. The two reports examine the performance from 1970 to 1992 of plants and companies of various sizes. They also compare job creation among Canadian manufacturing plants with those in the United States.

#### Definitions

Job creation is the increase in employment between two years in plants or companies where employment is growing.

Job loss is the decline in employment between two years in plants or companies where employment is falling. Net employment growth is the difference between job creation and job loss.

Rates of job change are calculated by dividing job change (job growth or job loss) by average company size. To test the robustness of the results, different methods were used to calculate average company size. Basically, the various methods average the employment size for different periods, in order to remove random movements in employment that occur over short periods.

Job turnover occurs as workers move from one plant to another as a result of job gain and job loss in different plants.

By comparison, on average between 1978 and 1992, companies with more than 50 employees all had negative rates of net employment growth—that is, they lost more jobs than they created. Job creation is found in some large firms just as in some small firms. But, in the larger size classes, job losses in declining firms outstrip job gains in expanding firms, so that net employment change is generally negative.

These results have given rise to the contention that small companies are the dynamos of change in the Canadian economy, and they have been used to stress the importance of small firms. These results consistently emerge for alternate estimation methods.

This disproportionate role of small firms in employment expansion is greatest in the primary, manufacturing and construction industries, where net employment expansion in large firms was negative (around -3% per year). Among the small firm sector, employment was positive (+3% to +10%). In the faster growing consumer and business services sectors, however, the difference was not as great, primarily because large firms in these sectors contributed more to employment expansion. Net employment growth among large firms in these industries was positive (+1% to +2% annually on average), but not as great as among small firms (in the +4% to +10% range).

## Small manufacturing plants are dynamos of change

In manufacturing, the small plants-those with fewer than 100 employees-also dominated job creation. In the economy as a whole, job creation in small manufacturing plants exceeded job loss. resulting in net employment gains in the 2% to 7% range; this compares with an employment decline of around 0.5% annually in the large plant sector over the 1970 to 1990 period. The importance of small manufacturing plants can also be evidenced by their increased share of employment. Plants with fewer than 100 employees in the manufacturing sector accounted for a growing share of total employment throughout the two decades, but the pace picked up during the late 1980s. This shift occurred because of a rapid expansion of new, smaller plants and because of a decline in larger plants.

There are several reasons for this. One is changing technology, which allows for shorter product lines and which permits smaller firms and plants to compete with larger firms that previously enjoyed advantages from economies of scale. The expansion may also be related to labour cost advantages. There is evidence that new firms are paying lower wages than incumbents. In addition, the expansion of smaller firms is partly a result of outsourcing—larger firms subcontracting out a portion of their parts or fabrication requirements.

#### Canadian small plants are more vibrant than American small plants in manufacturing

When all plants in manufacturing are considered, Canada and the United States show remarkably similar patterns of job growth and job loss. However, when this change is broken into small- and large-plant job change, differences emerge. Small plants in Canada appear to be a more dynamic group than their U.S. counterparts.

Canadian small plants with fewer than 100 employees had consistently higher rates of job gain and job loss from 1970 to 1990. They also had higher net employment growth than their counterparts in the United States. One reason may be that Canada had a larger percentage of employment in plants with fewer than 250 employees. In comparison, the United States had a larger percentage of employment in plants with more than 2,500 employees.

Even so, Canadian small plants still recorded the largest total job turnover—a combination of both gross job creation and job loss.

The two reports, Employment generation by small producers in the Canadian manufacturing sector (No. 70) and Have small firms created a disproportionate share of new jobs in Canada? (No. 71), are available today. To obtain copies, contact Valerie Thibault (613-951-1804).

For further information on this release, contact John Baldwin (613-951-8588), Micro-Economics Analysis Division, or Garnett Picot (613-951-8214), Business and Labour Market Analysis Division.

#### OTHER RELEASES

## **University enrolment**

1994-95 (preliminary)

After two decades of steady growth, part-time university enrolment in the fall of 1994 decreased for the second consecutive year. Full-time enrolment rose only moderately.

This fall, 284,500 students are enrolled part-time, a drop of 6%. The decline in part-time registrations occurred at both the undergraduate and graduate levels in all provinces and most institutions. Current labour market conditions and increased tuition fees may have contributed to the decrease.

It is not yet clear whether the reduction in parttime enrolment observed during the past two years is a temporary phenomenon or the beginning of a trend.

Growth in full-time university enrolment appears to be levelling off. This fall, 578,600 students are registered in full-time studies compared to 573,300 in 1993.

The number of full-time undergraduates increased by only 1% to 504,098. At the same time, the number of full-time graduate students rose to 74,497, an increase of only 200. Both increases are well below the average annual growth of the past two decades.

## Undergraduate enrolment in universities Fall, 1994-95

Part-time
· cart carrie
2,823
601
5,791
4,679
95,968
82,346
11,364
6,602
14,178
20,128
244,584
-5.94

Over the last decade, there has been a decrease of 19% in the population aged 18 to 24 years—the age group in which most university students are found. Rather than the anticipated decreases, enrolment in this age group increased 25%.

## Graduate enrolment in universities Fall, 1994-95

	Full-time	Part-time
Newfoundland	952	474
Prince Edward Island	21	1
Nova Scotia	2,431	1,364
New Brunswick	1,038	733
Quebec	22,841	19,219
Ontario	27.574	11,066
Manitoba	2,631	1,244
Saskatchewan	1,857	1,200
Alberta	5,631	2,141
British Columbia	9,547	2,498
Canada	74,479	39,940
% change from previous year	0.24	-5.94

Preliminary data on the number of students in universities by level and type of attendance are obtained prior to the regular annual survey of enrolments. These preliminary figures traditionally have been close estimates of final enrolment counts.

For further information, contact Mariem Martinson (613-951-1526) or Mongi Mouelhi, (613-951-1537), Postsecondary Education Section, Education, Culture and Tourism Division.

## Sales of natural gas

September 1994 (preliminary)

Natural gas sales in Canada totalled 3 482 million cubic metres in September, up 1.0% from September 1993. The increase was due to a 6.0% jump in sales to the industrial sector (including direct), largely the result of higher demand by electric utilities and the chemical industry. Sales to both the residential and commercial sectors declined from September 1993.

Year-to-date sales were up 2.8% from the same period in 1993. Sales to the residential sector rose a strong 7.5%, due to unseasonably cold temperatures in January and February, and to continuing growth in the number of customers. Commercial sales increased 3.2%, while the industrial sector (including direct sales) were up 0.7% from last year.

#### Sales of natural gas

÷	September 1994P	September 1993 to September 1994
	thousands of	0/ shanss
	cubic metres	% change
Total	3 481 924	1.0
Residential	444 010	-14.5
Commercial	367 714	-9.8
Industrial	1 986 826	
		6.0
Direct	683 374	
	January	Jan Sept.
	to	1993 to
	September	Jan Sept.
	1994P	1994
	thousands of	
	cubic metres	% change
Total	44 183 286	2.8
Residential	11 175 618	7.5
Commercial	8 116 057	3.2
Industrial	18 658 321	
		0.7
Direct	6 429 263	

p Preliminary figures.

#### Available on CANSIM: matrices 1052-1055.

The September 1994 issue of Gas utilities (55-002, \$14/\$140) will be available the third week of December. See "How to order publications".

For further information on this release, contact Gary Smalldridge (613-951-3567), Energy Section, Industry Division.

### Civil aviation statistics

Third quarter 1994

Operating income for Air Canada and Canadian Airlines International Ltd. increased to \$253 million in the third quarter of 1994, compared to \$163 million for the same quarter of 1993. A basic income of \$183 million was reported in the third quarter of 1994 (basic

income or loss is measured by combining the operating income—before capital gains, miscellaneous items and tax—with interest expenses). Although these two carriers always produce a basic income in the third quarter, the 1994 value is the largest ever.

In constant dollars (1986 = 100), the basic income for the third quarter of 1994 was \$140 million. This has been exceeded only four times in the last 20 years (1979, 1980, 1986 and 1987). The highest reported value of basic income was \$181 million in the third quarter of 1980. The average basic income for the third quarter over the last twenty years is \$96 million. In 1991 and 1992, average basic income slipped to \$7 million and \$1 million, respectively.

The last time these carriers ended a complete year with a basic income (as opposed to a loss) was 1988, when \$23 million was reported. After three quarters of 1988, they had a basic income of \$61 million. After three quarters of 1994, they have a basic income of \$31 million.

#### Available on CANSIM: matrix 385.

Preliminary civil aviation data for the third quarter of 1994 are published in the December issue of *Aviation service bulletin* (51-004, \$10/\$99). See "How to order publications".

For further information on this release, contact Robert Lund (819-997-6188), Aviation Statistics Centre, Transportation Division.

## Tea, coffee and cocoa

September 1994

Data on tea, coffee and cocoa for the third quarter of 1994 are now available.

#### Available on CANSIM: matrix 188.

The September 1994 issue of *Production and stocks of tea, coffee and cocoa* (32-025, \$8/\$32) will be available shortly. See "How to order publications".

For further information on this release, contact Peter Zylstra (613-951-3511), Industry Division.



### **PUBLICATION RELEASED**

Non-metallic mineral products industries, 1992. Catalogue number 44-250

(Canada: \$38; United States: US\$46;

other countries: US\$54).

The paper used in this publication meets the minimum requirements of American National Standard for Information Sciences – Permanence of Paper for Printed Library Materials, ANSI Z39.48 – 1984.



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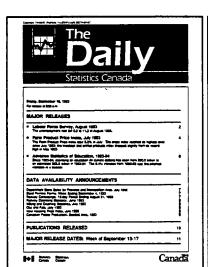
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