

Feasibility Study on a Tourism Human Resource Module¹

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List of Abbreviations

CRA: Canada Revenue Agency

C/QPP: Canada and Quebec Pension Plans

EI: Employment Insurance

FTE: Full-time equivalent

GDP: Gross Domestic product

HRM: Human Resource Module

I/O: Input-output

LFS: Labour Force Survey

NAICS: North American Industry Classification System

NTI: National Tourism Indicators

OECD: Organization for Economic Co-operation and Development

PIPES: Project to Improve Provincial Economic Statistics

SEPH: Survey of Employment, Payrolls and Hours

SIC: Standard Industrial Classification

SLI: Supplementary Labour Income

SNA: System of National Accounts

SOC: Standard Occupational Classification

TSA: Tourism Satellite Account

TSA:RMF: Tourism Satellite Account: Recommended Methodological Framework

WTO: World Tourism Organization

Executive summary

- The results of this study suggest that it is feasible to build a Human Resource Module for the TSA on an annual basis, for several key variables.
- This more positive conclusion, after an earlier, less promising assessment, stems from the investigation and implementation of new methods, including smoothing and limited manual adjustments to the detailed occupational data.
- Since the HRM is based on the same concepts as the TSA and NTI, direct comparisons can be made with the data in these accounts. Comparisons can also be made with the rest of the economy.
- This study examines two tourism industries, Air Transportation and Accommodation Services. Although the results are preliminary, they demonstrate some interesting capabilities of the HRM.
- One of the strengths of the HRM is that it can convey information for two different perspectives, the TSA approach and the total industry approach. For example, the accommodation industry provided a total of 241 thousand jobs to the Canadian economy in 2002. Of these, 125 thousand are attributable to tourism, according to TSA methods.
- The tourism portion of Air Transportation provided 55.2 thousand jobs to the Canadian economy in 2002, about 10% of all tourism jobs. Jobs peaked in 2000 at 64.4 thousand. From a total industry perspective, air transportation registered 57.1 thousand in 2000, down from a high of 69.5 thousand in 2000.
- Tourism labour productivity has generally increased for Air Transportation, nearly doubling from 1988 to 2002.
- Accommodation Services is a much more labour-intensive industry than Air Transportation. Job growth over 1988 to 2002 was variable, with tourism jobs peaking in 1999 at 131,000 from a tourism perspective and 253 thousand in total.
- The occupational make-up of jobs in Accommodation Services recorded a large shift from 1988 to 2002, with a smaller share of jobs in food services occupations and a higher share in the delivery of accommodation services.
- Further improvements and extensions can be made to the data presented in this report. For example, additional investigation is required for estimating the demand side jobs (those attributable to tourism).
- Two directions can be taken in the future of the HRM. One would be to continue to work with air and accommodation, to expand the information for these industries (e.g., for socio-demographic variables, like age and gender). The other would be to extend to other tourism industries (like food and beverage services and recreation and entertainment) with the level of detail used in this study, thereby completed the HRM for all tourism activities.
- It is recommended that future HRM work use data from 1997 and onward since the pre-1996 has not been officially published by Statistics Canada.

1.0 Introduction

This study re-examines the feasibility of developing a Human Resource Module (HRM) of the Tourism Satellite Account (TSA). The need to revisit the issue stems from fundamental changes in the statistical system since the first feasibility study was carried out in 1998. In the interim, new industry and occupational classifications were introduced, major survey developments related to the Project to Improve Provincial Economic Statistics took place, and both conceptual and data revisions to the System of National Accounts (SNA) have been made.

The aim of the HRM is to provide timely and reliable statistics on the human resource dimension of tourism. Both the TSA and the National Tourism Indicators (NTI) already carry some limited information on the number of jobs generated by tourism, while the former carries information on the labour income associated with these jobs as well. The HRM is envisioned to expand considerably on this information.

The HRM will complement and enhance the analytical capacity provided by the TSA and the NTI, allowing for a broader insight into tourism's role in the economy. It will also serve as a useful planning and forecasting tool for policy makers in the tourism, employment and training areas. Various tourism affiliated agencies, academics, and decision-makers in the tourism industry will also be able to use it for research and analysis, planning and development.

Human resource planning involves all persons working in a tourism industry, irrespective of whether their income comes directly from serving a tourist or a non-tourist. Consequently, the total number of jobs in tourism industries is a major focus of the HRM. This is broader than the TSA and the NTI, which portray only the jobs generated by tourism demand.

It should be emphasized that, for consistency with the SNA, the HRM uses the number of jobs as its key measure of employment. This is not the same as the Labour Force Survey measure of employment, which is the number of people employed. The two differ because of multiple job-holders, thus the former exceeds the latter by the number of people with second, third, etc., jobs.

As before, Air Transportation and Accommodation are selected as pilot industries for the feasibility study. While the data sources used and methods developed are in some instances industry-specific, many of the lessons learned and experience gained here will be portable to a full-fledged HRM.

The focus in the first phase of this pilot study has been restricted to key variables such as number of jobs, full-time equivalents, hours worked and labour income. In the next phases, the plan is to extend to other tourism industries and investigate socio-demographic characteristics such as gender, age, education, etc.

To outline the rest of the report, the following two sections discuss the accounting frameworks behind the HRM, key tourism concepts and definitions from the TSA, and various labour concepts and definitions from the SNA. The two pilot industries are described next, along with the reasons for choosing them for this feasibility study. The next two sections outline the coverage and structure of the two industries according to NAICS, and list and describe the main occupations identified for the purposes of the HRM. Main data sources are described in the following section, and then a summary illustration of the methods is provided. Selected results are discussed next, to demonstrate analytical uses of the HRM. Conclusions and recommendations come in the last section.

Appendix A provides descriptions of the HRM basic statistical tables, their organization and content. Appendix B provides a detailed discussion of the methodology. Appendix C summarizes the main differences between this feasibility study and the last one and details the differences regarding industry and occupational classifications. A glossary of terms and list of references are also provided.

2.0 Framework

The HRM is based on and rooted in the accounting framework of the TSA, which follows the international guidelines in **Recommended Methodological Framework: Tourism Satellite Account (TSA-RMF)**.⁴ In turn, the TSA:RMF is based on the accounting framework and principles of the internationally recognized System of National Accounts 1993 (SNA).⁵

Because the HRM uses the same framework, concepts and definitions as the Canadian TSA (CTSA), results from both can be readily compared. By extension, the HRM results can be readily compared to those of the SNA, in particular, to the number of jobs, hours worked and labour income in other industries in the economy. This enhances the analytical capacity of the HRM.

Some conceptual differences exist between the CTSA and the international guidelines in the TSA-RMF. These are related to valuation at basic prices, net valuation, and the treatment of business travel expenses. In addition there are certain gaps in terms of coverage of the CTSA related to second homes, post-trip expenditures, multiple-purpose durables, tourism collective consumption and capital formation.⁶

3.0 Concepts and definitions

The HRM carries information on the number of employee and self-employment jobs, full-time equivalent employment, total hours worked and labour income, gross wages and salaries and supplementary labour income, by industry. Some of these basic concepts and definitions are described next. They are discussed from a total industry perspective first, that is to say, regardless of the source of demand, tourism or non-tourism.

In the HRM, **total employment** in an industry is the number of all employee and self-employment jobs in that industry. It should be noted that a job that exists for only part of the year (for example 4 months) counts as only a fraction of a job (1/3 of a job) for the year. It should also be noted that a part-time job at 10 hours a week counts as much as a full-time job at 50 hours a week; each is one job. For this reason, jobs are not a good measure of labour inputs to production.

A better measure is **full-time equivalent employment** in which part-time jobs are converted to full-time jobs on the basis of hours worked.⁷ For example, two part-time jobs of twenty hours per week would be equivalent to one full-time job at forty hours per week. **Total hours worked** is an even better measure of aggregate volume of labour inputs to production, and the one used in the SNA to calculate labour productivity.⁸ The concept here is that of actual hours worked, not usual hours, and of hours worked, not hours paid (see section 7.1).

The value of labour inputs to production in an industry is measured by the labour income and mixed income for all jobs in that industry. **Labour income** consists of gross (i.e., before tax) wages and salaries, including tips,⁹ commissions, bonuses, as well as **supplementary labour income** which covers mandatory and non-mandatory employer contributions to pension plans and social insurance and similar benefits. **Mixed income** is the income after expenses of unincorporated business accruing to the self-employed.¹⁰

⁴ Commission of the European Communities Eurostat, Organisation for Economic Co-operation and Development, World Tourism Organization, United Nations Statistics Division, **Tourism Satellite Account: Recommended Methodological Framework**, Luxembourg, Madrid, New York, Paris, 2001.

⁵ Commission of the European Communities Eurostat, International Monetary Fund, Organisation for Economic Co-operation and Development, United Nations, World Bank, **System of National Accounts 1993**, Brussels/Luxembourg, New York, Paris, Washington, D.C., 1993.

⁶ See Katharine Kemp and Shaila Nijhowne, "Study of the Canadian Tourism Satellite Account: Comparison of the TSA-RMF and CTSA," report prepared for the Canadian Tourism Commission for the meetings of the Macroeconomics and Statistics Sub-Committee of the World Tourism Organization, 8-9 March 2004 in Madrid.

⁷ While full-time equivalent jobs is a better measure of labour inputs to production, it is not necessarily a better measure for all purposes. For instance, it is not very useful for assessing the number of people who may need training.

⁸ By combining tourism GDP from the TSA/NTI and hours worked attributable to tourism from the HRM, a measure of tourism labour productivity, which is fully consistent with SNA measures of labour productivity by industry, can be obtained.

⁹ The imputation of unreported tips in the SNA is described in section 7.1.

¹⁰ Mixed income is found in the TSA. For the HRM, on the other hand, an imputation is made for the labour component of mixed income. See the discussion of step 1 in the methodology in Appendix B.

The HRM also estimates the number of jobs in an industry that can be directly attributed to, or generated by, tourism demand. These estimates provide the link between the HRM and the TSA/NTI. Thus, **tourism employment** in an industry is the number of jobs generated by, or attributable to, visitor spending on the goods and/or services produced by that industry. The difference between tourism and total employment in an industry is just the number of jobs attributable to non-tourism (i.e., not directly attributable to tourism demand).

To give an example, if the Full-Service Restaurants industry has a total of 100,000 jobs, only the share that is directly associated with tourism (say 25%, or 25,000 jobs) represent the tourism employment in this industry. Similarly, only 25% of the full-time equivalent employment, total hours worked and labour income is attributed to tourism. Derived variables, such as annual average hours worked and annual average wage and salary per tourism job, as well as the average hourly earnings per hour worked per tourism job are assumed to be the same as for all jobs in an industry.

At the core of the TSA and the NTI is the definition of **tourism**. Tourism is defined according to the international standards as: “the activities of persons travelling to and staying in places outside their usual environment for not more than one consecutive year for leisure, business and other purposes not related to the exercise of an activity remunerated from within the place visited”. Persons who engage in tourism, so-defined, are called **visitors**. Visitors consist of **tourists** (those who visit and stay outside their usual environment for at least one night) and **same-day visitors**.

The definition of tourism is quite broad in that both personal and business travel are included. It also does not precisely spell out the notion of usual environment, thereby allowing a country to apply its own specifications. For operational purposes, Canada has defined the concept of **usual environment** as the area less than 80 kilometres one-way from home.¹¹ It should be noted that not all travel is tourism. In particular, the definition rules out several types of travel including commuting to and from work or school, travel by armed forces and diplomats, as well as migration. On the other hand, crossing an international boundary is considered tourism irrespective of the distance travelled.

Tourism demand is the spending by Canadian and non-resident visitors on domestically produced commodities. This spending has a direct impact on a wide range of industries, some more so than others. This leads to a definition of a **tourism industry** as one that provides tourism commodities to visitors that would cease to exist without tourism or would continue to exist only at a significantly reduced level of activity. By this definition, Travel Arrangement Services is a tourism industry while Retail Trade, which derives some of its business from visitors, is not. A **tourism commodity** is a good or service for which a significant part of its total demand comes from visitors. Air passenger transportation is a tourism commodity, while groceries, although occasionally bought by visitors, is not, because most groceries are bought by local residents.

Gross Domestic Product (GDP) can be defined as the unduplicated value of production of goods and services within the geographic boundaries of a country or region (i.e., province, territory).¹² **Tourism GDP** is the GDP that can be attributed to the production of goods and services consumed directly by visitors.¹³ In the CTSA, tourism GDP is calculated as the sum of the labour income, mixed income (net income of unincorporated business) and other operating surplus (corporate profit and depreciation) that can be directly attributed to visitor spending.¹⁴

¹¹ The operational definition of tourism will be revised with the new, redesigned Travel Survey of Residents of Canada which goes into the field in February 2005. Tourism will now include all overnight “out of town” (according to a respondent’s perception) trips and same-day trips exceeding forty kilometres one way from home. In addition to the usual exclusions, routine trips, such as for grocery shopping, will be excluded even if “out of town” or over 40 kilometres.

¹² Unduplicated means that values are not double counted. If, for example, the value of fuel used by aircraft is counted along with airfares (which already include the costs of fuel inputs) the value of the fuel would be counted twice. Instead, only the value added (the difference between revenues from sales of goods and services produced and the cost of intermediate inputs of goods and services) at each stage of production is counted in GDP. It might be noted that GDP in the SNA and TSA is measured at basic prices. This means essentially that valuation is at the prices received by sellers, and does not include taxes on the sale of goods and services.

¹³ The qualifier “directly” is important. To continue the example from above, “directly” means that only the GDP generated in the production of passenger air transportation (which visitors consume in their travels) can be counted in tourism GDP, not any of the GDP or value added generated in production of goods and services that are inputs to air transport (like fuel, which airlines use). It is in this sense that tourism GDP is directly attributable to visitor spending. There is of course GDP generated in the upstream production chain that can be attributed to tourism, but only indirectly. Estimates of the direct and indirect effects of tourism can be obtained from economic impact models.

¹⁴ In the TSA, GDP is calculated using the sum of incomes generated by production approach, one of the three approaches to measuring GDP. The other two approaches are based on summing (1) the final expenditures on goods and services produced and (2) the value added generated in the production of goods and services.

4.0 Pilot Industries

The feasibility study focuses on two pilot industries, Air Transportation and Accommodation Services. There are a number of reasons for selecting them. First, there are significant differences between the two industries with respect to human resource training practices, policies and needs.

Second, the two industries also differ substantially in terms of their basic human resource dimensions. The Accommodation Services industry is much larger than Air Transportation, with over four times as many jobs (in 2002). Self-employment jobs are about 3 times more prevalent in Accommodation Services, making up 4% of all jobs. Full-time jobs are more prevalent in Air Transportation, making up 80% of all employee jobs, versus 73% in Accommodation Services. Average annual hours worked at all employee jobs were almost the same at 1,713 hours per year in Accommodation, versus 1,723 hours in Air Transportation. The Accommodation Services industry is more labour intensive than Air Transportation, and the jobs tend to be lower skilled and lower paid. The annual wage and salary in Accommodation Services was about \$21,000, on average (across all employee jobs) in 2002, less than half the \$52,000 for jobs in Air Transportation.

Third, there are certain features of the two industries that have important statistical implications related especially to the ease of data collection and the quality of data received. Air Transportation is heavily concentrated with a handful of dominant carriers having large establishments that tend to be geographically concentrated. Accommodation Services, on the other hand, tends to be more widely dispersed in terms of both ownership and location with far greater numbers of establishments. Air Transportation is also subject to more regulatory reporting requirements.

Last, but not least, the two industries comprise a significant part of the tourism sector. Together, according to the NTI, they accounted for 36% of total visitor spending in Canada in 2002 and 33% of tourism employment. Their relative size and importance, as well as the diversity between the two industries thus provides a useful and relevant testing ground for the HRM. If it were not possible to develop HRM variables for these two industries, it would be unlikely that it could be done for other, smaller tourism industries.

5.0 Industry Classification

This study uses the North American Industry Classification System NAICS (1997) definitions of Air Transportation and Accommodation Services. Briefly, NAICS is a comprehensive industry classification system encompassing all economic activities. It is designed for the compilation of production statistics and, therefore, for the classification of data relating to establishments (and locations). The criteria used to group establishments into industries in NAICS are similarity of input structures, labour skills or production processes used. The NAICS descriptions of the two pilot industries follow.

5.1 Air Transportation

Air Transportation is industry sub-sector 481 in NAICS. It consists of two major industry groups, Scheduled Air Transportation (4811) and Non-Scheduled Air Transportation (4812). Both comprise establishments primarily engaged in transporting passengers and/or goods by aircraft, over regular routes and on regular schedules. The main difference between the two is that establishments in Scheduled Air Transportation have less flexibility with respect to choice of airports, hours of operation, load factors and similar operational characteristics. Table 1 shows the NAICS industry structure for Air Transportation.

Table 1: Air Transportation – NAICS

NAICS 1997 - Code and Title		Industry description
481	Air Transportation	This subsector comprises establishments primarily engaged in for-hire, common-carrier transportation of people and/or goods using aircraft, such as airplanes and helicopters.
4811	Scheduled Air Transportation	This industry group comprises establishments primarily engaged in transporting passengers and/or goods by aircraft, over regular routes and on regular schedules. Establishments in this industry have less flexibility with respect to choice of airports, hours of operation, load factors and similar operational characteristics than do establishments in 4812, Non-Scheduled Air Transportation.
481110	Scheduled Air Transportation	This Canadian industry comprises establishments primarily engaged in transporting passengers and/or goods by aircraft, over regular routes and on regular schedules. Establishments in this industry have less flexibility with respect to choice of airports, hours of operation, load factors and similar operational characteristics than do establishments in 4812, Non-Scheduled Air Transportation.
4812	Non-Scheduled Air Transportation	This industry group comprises establishments primarily engaged in the non-scheduled air transportation of passengers and/or goods. Establishments in this industry have more flexibility with respect to choice of airports, hours of operation, load factors and similar operational characteristics than do establishments in 4811, Scheduled Air Transportation. Establishments primarily engaged in providing specialty air transportation or flying services using small, general-purpose aircraft are included.
481214	Non-Scheduled Chartered Air Transportation	This Canadian industry comprises establishments primarily engaged in the non-scheduled air transportation of passengers and/or goods by aircraft, at a toll per mile or per hour for the charter of the aircraft.
481215	Non-Scheduled Specialty Flying Services	This Canadian industry comprises establishments primarily engaged in providing a combination of flying services, with no single service predominating. These establishments use small, general-purpose aircraft. The services performed may be specialized, such as aerial photography, aerial crop spraying, fighting forest fires, air ambulance, towing advertising banners, skywriting, and aerial traffic reporting, or general air transportation of passengers and goods.
Excerpt from NAICS (1997) Canada Manual		

5.2 Accommodation Services

Accommodation Services is industry sub-sector 721 in NAICS. This subsector comprises establishments primarily engaged in providing short-term lodging for travellers, vacationers and others. It consists of three major industry groups, Traveller Accommodation (7211), RV (Recreational Vehicle) Parks and Recreational Campgrounds (7212) and Rooming and Boarding Houses (7213).

In the case of Rooming and Boarding Houses, this is not considered a tourism industry. The industry still poses difficulties however because it is grouped together with RV Parks and Recreational Campgrounds in the SNA. Consequently, an adjustment is required to remove it.

Table 2 shows the NAICS industry structure for Accommodation Services. This structure poses some difficulties, because the aggregations of the detailed industries in the TSA are not the same as in NAICS. In particular, the TSA industry Other Accommodation includes industries under both Traveller Accommodation and RV Parks and Recreational Campgrounds. This stems largely from an effort to both incorporate NAICS into the TSA and to maintain continuity with SIC-based aggregations in earlier TSAs.

Table 2: Accommodation Services - NAICS

NAICS 1997- Code and Title		Industry description
721	Accommodation Services	<p>This subsector comprises establishments primarily engaged in providing short-term lodging for travellers, vacationers and others. In addition to lodging, a range of other services may be provided. For example, many establishments have restaurants, while others have recreational facilities. Lodging establishments are classified in this subsector even if the provision of complementary services generates more revenues.</p> <p>Establishments that operate lodging facilities primarily designed to accommodate outdoor enthusiasts, are also included in this subsector. These establishments are characterized by the type of accommodation and by the nature and the range of recreational facilities and activities provided to their clients.</p> <p>Establishments that manage short-stay accommodation establishments, such as hotels and motels, on a contractual basis are classified in this subsector if they provide both management and operating staff. These establishments are classified according to the type of facility they manage.</p>
7211	Traveller Accommodation	<p>This industry group comprises establishments primarily engaged in providing short-term lodging in facilities such as hotels, motor hotels, resorts, motels, casino hotels, bed and breakfast homes, and housekeeping cottages and cabins. These establishments may offer food and beverage services, recreational services, conference rooms and convention services, laundry services, parking and other services.</p>
721111	Hotels	<p>This Canadian industry comprises establishments primarily engaged in providing short-term lodging in facilities known as hotels. These establishments provide suites or guest rooms within a multi-storey or high-rise structure, accessible from the interior only, and they generally offer guests a range of complementary services and amenities, such as food and beverage services, parking, laundry services, swimming pools and exercise rooms, and conference and convention facilities.</p>
721112	Motor Hotels	<p>This Canadian industry comprises establishments primarily engaged in providing short-term lodging in facilities known as motor hotels. These establishments are designed to accommodate clients travelling by motor vehicle and provide short-stay suites or guest rooms within a low-rise structure, characterized by ample, convenient parking areas, interior access to rooms, and their location along major roads. Limited complementary services and amenities may also be provided.</p>
721113	Resorts	<p>This Canadian industry comprises establishments primarily engaged in providing short-term lodging in facilities known as resorts. These establishments feature extensive indoor and/or outdoor leisure activities on the premises on a year-round basis. Resorts are designed to accommodate vacationers and provide full-service suites and guest rooms, typically in a non-urban setting next to lakes, rivers or mountains. Establishments of this type often provide access to conference facilities.</p>
721114	Motels	<p>This Canadian industry comprises establishments primarily engaged in providing short-term lodging in facilities known as motels. These establishments are designed to accommodate clients travelling by motor vehicle, and provide short-stay suites or guest rooms, within a one or two-storey structure, characterized by exterior access to rooms and ample parking areas adjacent to the room entrances. Limited complementary services and amenities may also be provided.</p>
721120	Casino Hotels	<p>This Canadian industry comprises establishments primarily engaged in providing short-term lodging in hotel facilities with a casino on the premises. The casino operation includes table wagering games and may include other gambling activities, such as slot machines and sports betting. These establishments generally offer a range of services and amenities, such as food and beverage services, entertainment, valet parking, swimming pools, and conference and convention facilities.</p>
721191	Bed and Breakfast	<p>This Canadian industry comprises establishments primarily engaged in providing short-term lodging in facilities known as bed and breakfast homes. These establishments provide guest rooms in private homes or in small buildings converted for this use, and they often possess a unique or historic character. Bed and breakfast homes are characterized by a highly personalized service, and the inclusion, in the room rate, of a full breakfast, served by the owner or owner-supervised staff.</p>

721192	Housekeeping Cottages and Cabins	This Canadian industry comprises establishments primarily engaged in providing short-term lodging in facilities known as housekeeping cottages and cabins. These establishments are designed to accommodate vacationers and may include access to private beaches and fishing.
721198	All Other Traveller Accommodation	This Canadian industry comprises establishments, not classified to any other Canadian industry, primarily engaged in providing short-term lodging.
7212	RV (Recreational Vehicle) Parks and Recreational Camps	This industry group comprises establishments primarily engaged in operating recreational vehicle parks and campgrounds, hunting and fishing camps, and various types of vacation and adventure camps. These establishments cater to outdoor enthusiasts and are characterized by the type of accommodation and by the nature and the range of recreational facilities and activities provided to their clients.
721211	RV (Recreational Vehicle) Parks and Campgrounds	This Canadian industry comprises establishments primarily engaged in operating serviced or unserviced sites to accommodate campers and their equipment, including tents, tent trailers, travel trailers and RVs (recreational vehicles). These establishments may provide access to facilities, such as washrooms, laundry rooms, recreation halls and facilities, and stores and snack bars.
721212	Hunting and Fishing Camps	This Canadian industry comprises establishments primarily engaged in operating hunting and fishing camps. These establishments provide a range of services, such as access to outpost camps or housekeeping cabins, meals and guides, and they may also provide transportation to the facility, and sale of food, beverages, and hunting and fishing supplies.
721213	Recreational (except Hunting and Fishing) and Vacation Camps	This Canadian industry comprises establishments primarily engaged in operating overnight recreational camps, such as children's camps, family vacation camps, and outdoor adventure retreats that offer trail riding, white-water rafting, hiking and similar activities. These establishments provide accommodation facilities, such as cabins and fixed camp sites, and other amenities, such as food services, recreational facilities and equipment, and organized recreational activities.
7213	Rooming and Boarding Houses**	This industry group comprises establishments primarily engaged in operating rooming and boarding houses and similar facilities.

Excerpt from NAICS (1997) Canada Manual

**** Rooming and Boarding Houses is part of Accommodation Services, but is excluded in this study, as it is not a tourism industry in the TSA.**

6.0 Occupational Classification

This study uses the Standard Occupational Classification (SOC) 1991 definitions of occupations. The basic principle of classification of the SOC is that of kind of work performed. An **occupation** is thus defined as a collection of jobs, sufficiently similar in work performed to be grouped under a common title for classification purposes.

The selection of occupations for this study is based on an examination of the occupational data from the 2001 Census for persons in the experienced labour force whose main job was in one of the pilot industries. Initially, occupations with an estimated 1,000 employed persons (i.e., with underlying samples of roughly 200 persons) or more were selected, but these turned out to be too detailed to support time series based on much thinner samples from the LFS. Hence, the limit was raised to around 5,000 in order to attain more stability.

The following tables (Tables 3-4) list and describe the occupations identified for the two pilot industries.

For Air Transportation the following detailed occupations were retained:

- Air Pilots, Flight Engineers and Flying Instructors
- Purser and Flight Attendants
- Airline Sales and Service Agents
- Aircraft Mechanics and Aircraft Inspectors
- Air Transport Ramp Attendants.

In addition, some broadly aggregated occupational groups were identified. These include:

- Management Occupations
- Business, Finance and Administrative Occupations
- All other occupations found in the industry, as a residual category.

For Accommodation Services the following detailed occupations were retained:

- Accommodation Service Managers
- Sales and Service Supervisors
- Chefs and Cooks
- Occupations in Food and Beverage Service
- Hotel Front Desk Clerks
- Cleaners
- Food Counter Attendants and Kitchen Helpers

Some broader occupational groups were identified as well. These include:

- Management Occupations (excluding Accommodation Service Managers)
- Business, Finance and Administrative Occupations
- All other occupations, as a residual category.

It might be noted that for Accommodation Services, some of the detailed occupations retained are at the three, not four, digit level of the SOC. This was done largely to maintain sample sizes as a way of reducing volatility of the estimates.

Table 3: Occupations in Air Transportation

Occupation (SOC-91 code)	Description
Management occupations (A)	Occupations primarily concerned with carrying out the function of management by planning, organizing, coordinating, directing, controlling, staffing, and formulating, implementing or enforcing policy, either directly or through other level of management.
Business, Finance and Administrative Occupations (B)	Occupations primarily concerned with providing financial and business services, administrative and regulatory services, and clerical support services.
Air Pilots, Flight Engineers and Flying Instructors (C171)	Occupations primarily concerned with flying the aircraft, monitoring the aircraft in flight and teaching aircraft pilots.
Pursers and Flight Attendants (G712)	Occupations primarily concerned with greeting passengers, and providing other services on airplanes to ensure the comfort and safety of passengers.
Airline Sales and Service Agents (G713)	Occupations primarily concerned with issuing tickets, making reservations, tracing missing baggage, arranging for cargo shipments and performing other related customer service duties to assist airline passengers. Airline sales and service agents are employed by airline companies. Load planners, who plan the position of cargo on aircraft, are also included in this unit group.
Aircraft Mechanics and Aircraft Inspectors (H415)	Occupations primarily concerned with maintaining, repairing and overhauling and modifying aircraft mechanical systems. Aircraft inspectors inspect aircraft and aircraft mechanical systems after manufacture, modification, maintenance, repair or overhaul.
Air Transport Ramp Attendants (H737)	Occupations primarily concerned with operating ramp-serving vehicles and equipment, handling baggage and performing other direct ground supporting tasks at airports.
All Other Occupations	Occupations in Air Transportation, not included above.
Excerpt from the SOC-91 Manual.	

Table 4: Occupations in Accommodation Services

Occupation (SOC91 code)	Description
Accommodation Service Managers (A222)	Occupations primarily concerned with planning, organizing, directing and controlling the operation of hotels and motels. Hotel front desk managers and reservations managers are included in this unit group.
Managers (A, excluding A222)	Occupations primarily concerned with carrying out the function of management by planning, organizing, coordinating, directing, controlling, staffing, and formulating, implementing or enforcing policy.
Business, Finance and Administrative Occupations (B)	Occupations primarily concerned with providing financial and business services, administrative and regulatory services, and clerical support.
Sales and Service Supervisors (G01)	Occupations primarily concerned with supervising the work of: persons selling goods and services to the public in retail stores, recreational and entertainment facilities, or by telephone and door-to-door methods; cleaners or janitors; dry cleaning and laundry workers; accommodation service clerks; theatre, sport and recreation service workers. This occupation covers Retail Trade Supervisors (G011), Food Service Supervisors (G013), Executive Housekeepers (G013), Dry Cleaning and Laundry Supervisors (G014), Cleaning Supervisors (G015) and Other Service Supervisors (G016).
Chefs and Cooks (G41)	Occupations primarily concerned with planning and directing meal preparation and preparing and cooking food. This occupation covers Chefs (G411) and Cooks (G412).
Occupations in Food & Beverage Service (G51)	Occupations primarily concerned with greeting and seating customers, mixing drinks and serving food and beverages. This occupation covers Maitres d'hotel and Hosts/Hostesses (G511), Bartenders (G512) and Food and Beverage Servers (G513)
Hotel Front Desk Clerk (G715)	Occupations primarily concerned with making room reservations and receiving payment for hotel services such as accommodation, room service and meals.
Cleaners (G93)	Occupations primarily concerned with cleaning building interiors or exteriors, carpets, chimneys, vehicles and other light duty or specialized cleaning services. This occupation covers Light Duty Cleaners (G931), Specialized Cleaners (G932) and Janitors, Caretakers and Building Superintendants (G933).
Food Counter Attendants and Kitchen Helpers (G96)	Occupations primarily concerned with simple tasks in food preparation and serving. This occupation covers Food Service Counter Attendants and Food Preparers (G961) and Kitchen and Food Service Helpers (G962).
All Other Occupations	Occupations in Accommodation Services, not included above.
Excerpt from the SOC-91 Manual.	

7.0 Data Sources

There are five main sources of data behind the HRM pilot industry estimates, the SNA, the Census, the LFS, SEPH and Canadian Civil Aviation surveys.¹⁵ These are described below along with their main uses.

7.1 System of National Accounts

The SNA provides the industry totals for employee jobs and hours worked, labour income, wages and salaries, supplementary labour income, for both full-time and part-time jobs (see appendix A, Tables 1A and 2A). Comparable data are also available for self-employment jobs, but the income variable is

¹⁵ The Survey of Traveller Accommodation was investigated as a potential source, but its time series results for jobs were considered unsuitable.

the net income of unincorporated businesses. These totals are for all jobs, including those attributable to both tourism and non-tourism demand. Data for 1997 onwards on a NAICS basis have been published, while data for the period prior to 1996, also on a NAICS basis, were under development when obtained for this feasibility study.¹⁶

The SNA jobs total starts from the Labour Force Survey estimate of the number of persons employed. This is adjusted to jobs by adding the second jobs of multiple-job holders.¹⁷ Additions are made for employment not covered by the LFS (e.g. regular military, employed persons in the territories and living on Indian reserves, and civil servants working in Canadian embassies abroad) to reflect the total economy. Last, deductions are made to exclude those absent from work without pay during the reference week.¹⁸ SEPH is primarily used to develop the industry allocation of the adjusted LFS benchmarks, although industry surveys and administrative sources are used for selected industries. SEPH is used for Air Transportation and Accommodation.

The hours worked data include the following:

- hours actually worked during normal periods of work;
- time worked in addition to hours worked during normal periods of work, and generally paid at higher rates than the normal rate (overtime);
- time spent at the place of work on work such as the preparation of the workplace, repairs and maintenance, preparation and cleaning of tools, and the preparation of receipts, time sheets and reports;
- time spent at the place of work waiting or standing-by for such reasons as lack of supply of work, breakdown of machinery, or accidents, or time spent at the place of work during which no work is done but for which payment is made under a guaranteed employment contract; and
- time corresponding to short periods of rest at the workplace, including tea and coffee breaks.

They exclude:

- hours paid for but not actually worked, such as paid annual leave, paid public holidays, paid sick leave;
- meal breaks; and
- time spent on travel to and from home and work.

The hours worked data are adjusted to correct for reference week effects in order to estimate annual hours worked.

In the national accounts, industry totals for wages and salaries come from a detailed reconciliation of wages and salaries from survey data and T4 administrative data. Estimates for components of supplementary labour income come in part from the T-4 system (e.g., employer contributions to EI and Q/CPP), administrative data on registered pension plans and from Workers Compensation Boards, as well as other survey sources (for benefits like life, accident and health insurance).

It might be noted that adjustments for selected tips that go unreported are made to the benchmarks for several industries:

- Performing Arts and Spectator Sports and Related Industries (NAICS 711)
- Amusement and Recreation Industries (713)
- Accommodation Services (721)
- Food Services and Drinking Places (722).

The adjustments are made on the basis of industry sales of alcoholic beverages, full service restaurant meals (i.e., no tips are assumed on fast food), and accommodation. To give some idea of the magnitude of these adjustments, in 2000, the imputations amounted to \$2.2 billion. The imputation

¹⁶ Subsequent refinements to these numbers have not been taken into account here. The finalized SNA numbers are expected to be released early in 2005.

¹⁷ Industry of second job is determined based on patterns observed for multiple job holders in the Survey of Labour Income Dynamics.

¹⁸ For more details on the current SNA methodology see Jean Pierre Maynard, "Annual measure of the volume of work consistent with the SNA: The Canadian experience," paper presented to the annual meeting of the Paris Group, 29 September 2004, Lisbon, Portugal.

for tips in Accommodation Services amounted to \$513 million (or 12.1% of gross wages and salaries, excluding imputed tips) with \$1.6 billion added to the wage bill for the Food Services and Drinking Places industry.¹⁹ There are additional, smaller imputations for tips in Personal Care Services (barbershops and beauty salons, etc) and Railway Transportation (for luggage porters) industries. Imputations are not presently made for all unreported tips (e.g., taxi drivers, luggage porters at airports) however.

It might be noted as well that the average hourly earnings are calculated in the HRM as wages and salaries divided by total hours worked. Because tips and pay for absences (sick leave, vacations, etc.) are included in wages and salaries, the hourly earnings include an implicit premium on top of the straight wage for both.

7.2 Census of Population

The Census of Population provides comprehensive data on the demographic, social and economic characteristics of Canadians. Detailed information is collected from one in every five households. Given its large sample size, the Census serves as the most reliable source of information on occupational distributions. As such, data from the 1991, 1996 and 2001 Censuses were used primarily to distribute the SNA totals on employee jobs, hours worked and wages and salaries across occupations.

The data used in these calculations (shown in Appendix Table B2) are based on occupational distributions for persons who had employment income in the census reference year (i.e., the calendar year prior to the census). The self-employed are excluded in the calculations.

The sample was broken down into part- and full-time categories according to whether the weeks worked in the reference year were primarily full-time (30 or more hours per week) or part-time (less than 30 hours per week). It should be noted that, industry and occupation relate to the main job held during the reference week (defined as the job at which the most hours were worked) or, if unemployed, to the main job held since the start of the reference year (defined as the one in which the most weeks were worked).

Tabulations for this study used the SOC 1991 throughout, and the SIC 1980 on the 1991 and 1996 Censuses and NAICS on the 2001 Census.

7.3 Labour Force Survey

The Labour Force Survey is conducted monthly on approximately 53,500 households, which translates roughly to a sample size of 100,000 people over the age of fifteen. The LFS collects basic labour force activity information including industry and occupation of employment for the survey reference week (normally the week including the 15th of the month), both for employees and the self-employed. It does not cover the territories, military personnel or civil servants stationed abroad, or persons residing on Indian reserves. Industry data on a NAICS basis is available back to 1976, while occupation data are available on an SOC-1991 basis back to 1987.

The LFS is used here to develop the time series on jobs and hours worked by occupation for Accommodation Services. In addition, information on hours worked in Air Transportation by occupation is used to develop the time series for this industry. As mentioned above, the LFS is used in the SNA to establish overall number of jobs totals.

7.4 Survey of Employment, Payrolls and Hours

The Survey of Employment, Payrolls and Hours (SEPH) is conducted monthly. It collects the number of employee jobs and payroll data from all establishments in Canada except in agriculture, fishing and trapping, services to agriculture, private household services, religious organizations and defence services. Since 1998, employers must report number of employees and gross payroll (for the last pay period of the month) to Canada Revenue Agency when remitting payroll deductions.

¹⁹ It might be noted that these tips have simply been prorated across occupations in the current HRM estimates. In subsequent development, allocation of tips to specific occupations should be considered.

Because this is a census and establishments are coded by industry through the Business Register, this provides the best source of timely information on the industry distribution of employee jobs and payrolls. The administrative data are supplemented by the monthly Business Payroll Survey of 11,000 businesses. This survey collects data on employment, earnings and paid or usual hours according to whether workers are paid by the hour, salaried or remunerated some other way.

SEPH data on a NAICS basis are available back to 1991. Data on the number of jobs, hours paid and earnings are used here to remove Rooming and Boarding Houses from the SNA totals and to develop the Accommodation time series. As mentioned earlier, SEPH is also used extensively in the SNA to determine the industry distributions of employee jobs.

7.5 Canadian Civil Aviation Surveys

The Canadian Civil Aviation Annual Report collects both financial and operating data from all licensed carriers in Air Transportation. In addition to financial statistics, the survey also provides employment and earnings information for selected occupations. The occupational data on jobs and wages and salaries are used here to develop the time series for the industry.

8.0 Summary of methodology

The basic methodology consists essentially of six steps:

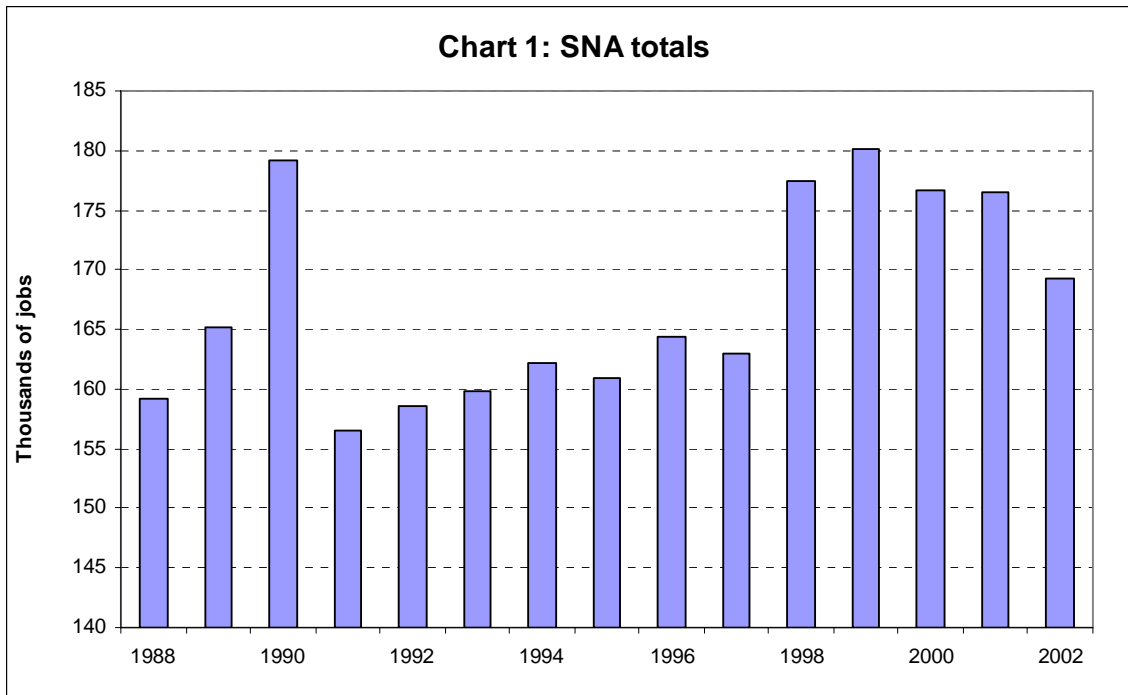
- (1) taking SNA totals for jobs, hours worked, and wages and salaries,
- (2) distributing the employee totals for 1990, 1995 and 2000 across occupations based on Census data,
- (3) building time series from these benchmarks based on movements in corresponding series from the LFS and/or industry surveys,
- (4) smoothing the time series for occupations, while keeping the overall industry totals, and
- (5) making limited, final adjustments to data values.

This step completes the estimates for total employment of the HRM. The tourism employment estimates, are obtained in a sixth step:

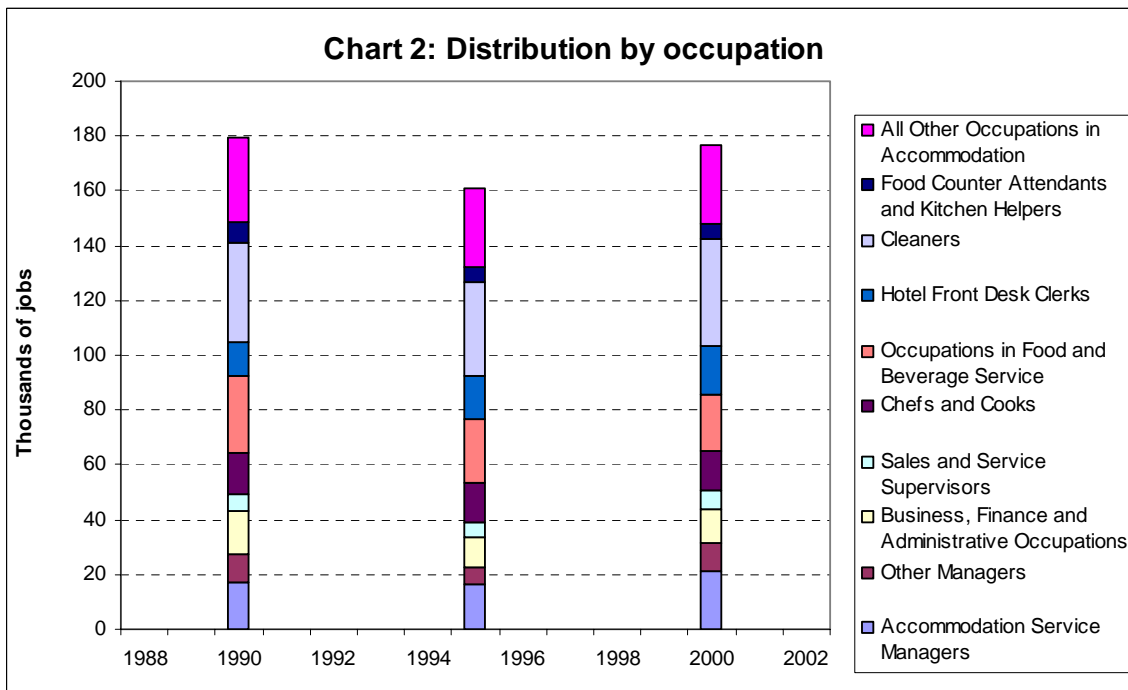
- (6) adjusting the aggregates for all jobs, hours worked and earnings according to the share of tourism employment in total employment, leaving averages unchanged.

A graphical example of the method is given here for a specific series. All data series for employee jobs, hours worked, wages and salaries go through the same process, and the results are generally similar to this example. For more details on each step, see Appendix B.

Chart 1 below shows the total number of full-time employee jobs in Accommodation Services (excluding Rooming and Boarding Houses) from the SNA. This is Step 1 in the methodology.



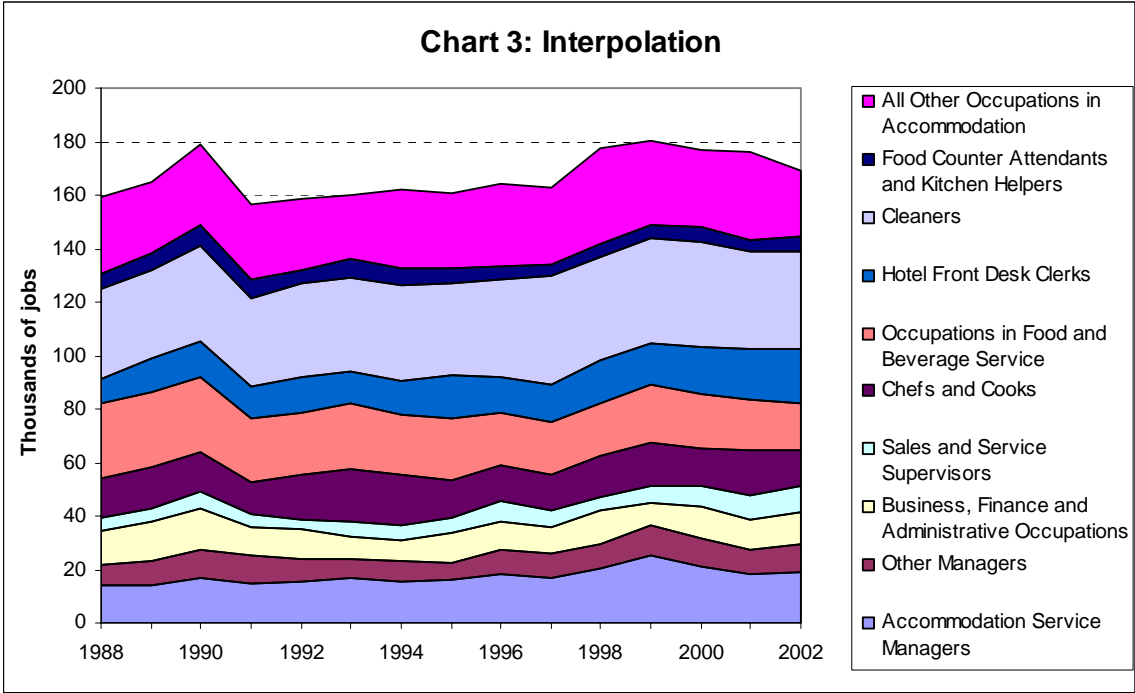
The best information on the occupational distribution of jobs in Accommodation Services comes from the Census. Step 2 involves using this source to distribute the SNA totals by occupation. Chart 2 shows how the jobs for 1990, 1995 and 2000 (i.e., the census reference years) are distributed. The actual distributors for this example are shown in Appendix Table B2 (first through third columns, third panel).



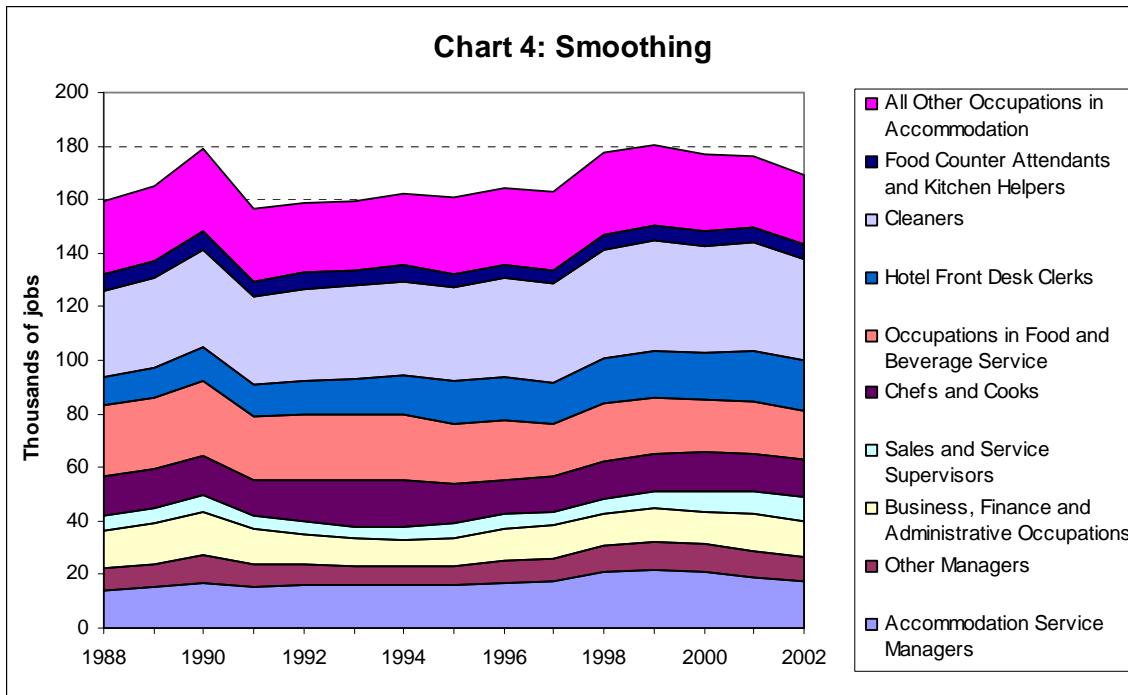
Step 3 entails using the corresponding LFS annual average series on number of full-time employees in Accommodation Services (excluding Rooming and Boarding Houses) by occupation to interpolate and extrapolate the benchmarks established above. The methodology ensures that the overall totals from Step 1 and the distributions from Step 2 are maintained. Chart 3 below shows the results.

The results illustrated in Chart 3 appear fairly stable, however some of the time series movements are quite erratic. For instance, there is a small peak in 1990 for Accommodation Service Managers, the bottom series in Chart 3. This reflects a large 22% increase in the number of management jobs between 1989 and 1990. The number of all full-time, employee jobs in the industry, however, was up only 8.5% in 1990.

In fact, while not evident in the Chart, there is a great deal of erratic time series movement at the detailed level stemming from small samples and sampling variability. As concluded at an earlier stage of this study, smoothing procedures are needed to dampen their effects. Various degrees of smoothing have been investigated, and a three-year moving average was considered to provide the best results. All results that follow come from that exercise, unless otherwise noted.

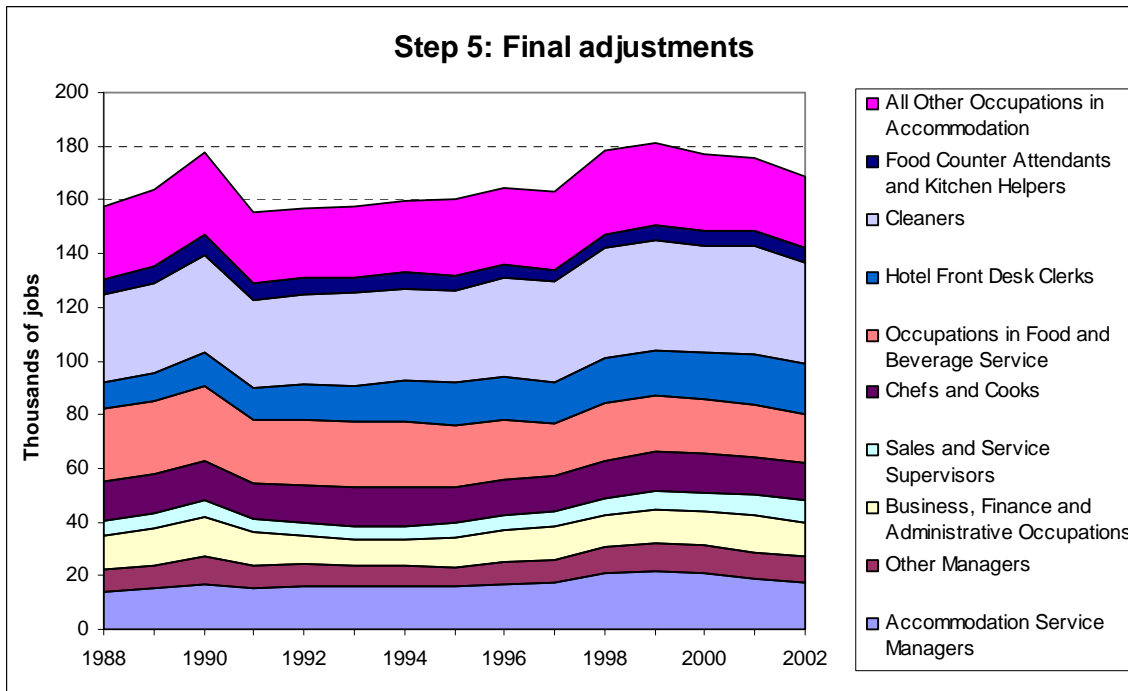


Step 4 entails smoothing (using a three-year moving average) to reduce volatility in the occupational time series, while maintaining the totals (Chart 1) and the three census occupational benchmarks (Chart 2). Chart 4 shows the smoothed series. In these data, the number of Accommodation Service Manager jobs increases 10.5% between 1989 and 1990, considerably less than in the unsmoothed series and much closer to the industry average for full-time employee jobs. This dampening of erratic movements occurs generally across the board.



The last step in developing the total industry estimates involves manual adjustments when the smoothed series appear out of line, or are notably inconsistent with the hours worked or wages and salaries, or generate erratic movements in the implied average annual hours or average hourly earnings.

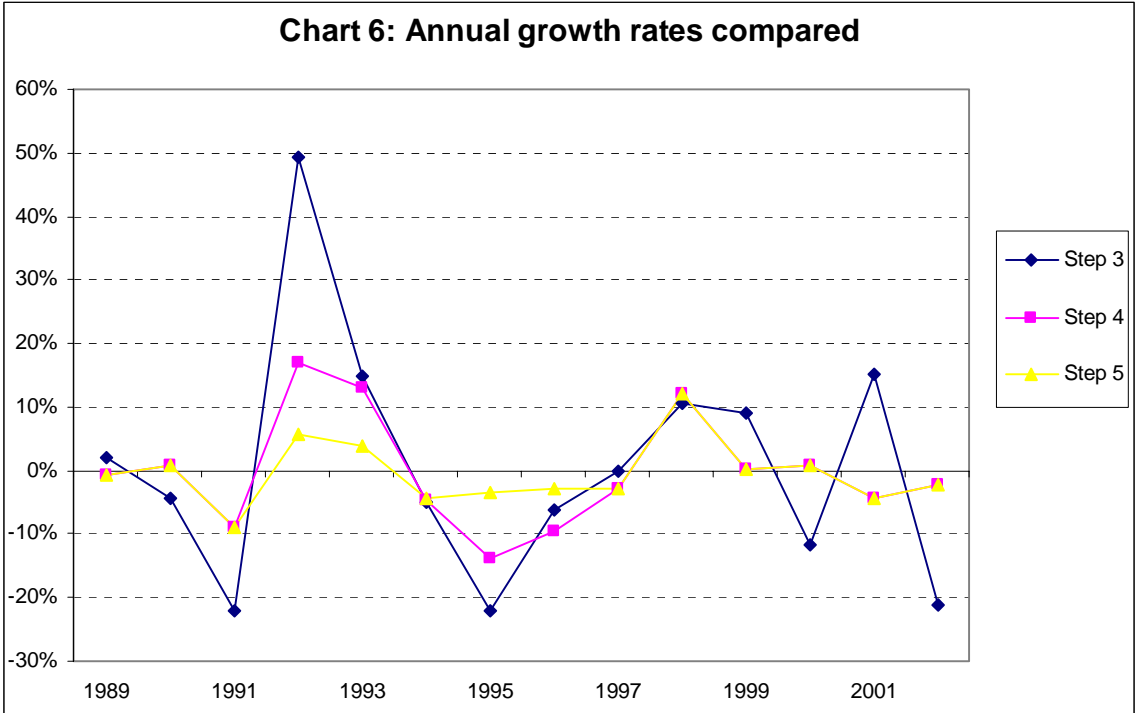
Chart 5 shows the results of this step. The Chart plots a total of 150 data points (10 occupational groups X 15 years). In total, 17 of these points have been manually adjusted. Altogether, these adjustments amount to a relatively small 0.8% of the total number of jobs.



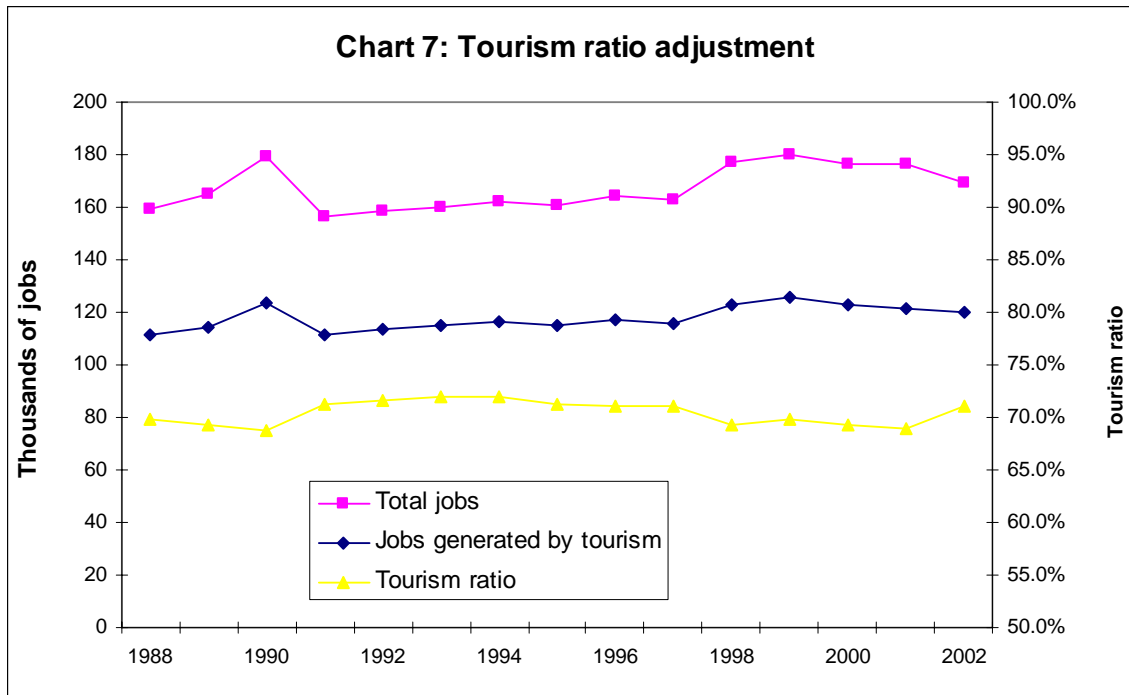
It is clear from the above that the smoothing and manual adjustments have little effect on the general pattern of the occupational distributions. However, they notably reduce the volatility of year-to-year growth rates.

Chart 6 illustrates this result for one specific series, the number of full-time, employee jobs for Chefs and Cooks. As can be seen, the annual growth rates based on the unsmoothed data from Step 3 are clearly erratic. The smoothing in Step 4 significantly reduces these gyrations. The final adjustments (where the Step 5 series differ from the Step 4 series) also tend to have this effect.

This completes the total industry estimates of the HRM.



The last step involves estimating the number of jobs, hours worked and wages and salaries attributable to tourism. To do this implicit tourism ratios are determined from the employment generated by tourism from the NTI (as shown in NTI Table 13) and the total employment (jobs) in the two pilot industries from the HRM (or, equivalently, from the SNA). Chart 7 shows the total full-time employee jobs in Accommodation and the number of these jobs generated by tourism.



The Chart also shows the tourism ratios. In this study, these ratios are applied across all jobs, hours worked and income variables, for employees and the self-employed, part- and full-time, across all occupations. This is problematic because some occupations are more on the front line, serving visitors, than others.

It might be noted that the tourism ratios here are not exactly the same as published in the TSA. This arises because the SNA jobs numbers used in developing the HRM series have changed from the ones that were available at the time the TSA 1998 was prepared.

9.0 Results

This section highlights some of the results from the HRM. Because the Module is in development, the intent here is simply to illustrate some of the types of analyses the HRM can support.

The HRM allows an analyst to get a snapshot of an industry and the occupations that comprise it. This analysis can be made over time, in this case, from 1988 to 2002. Both the total and tourism perspectives sides can be examined. Aggregates for total jobs, hours worked, etc., are, of course, smaller on the tourism side (i.e., attributable to tourism) than on the total side (i.e., attributable to tourism and non-tourism activities). Derived variables, such as average wages and average hours work are the same (by assumption) on either side. Comparisons can also be made to data in the TSA/NTI and the SNA.

The overall trends in the HRM for both number of jobs and average wages tend to follow the business cycles found in the rest of economy, as would be expected. For example, as the economy swings up, the number of jobs and the average hourly wage in Accommodation and Air Transportation increase or grow more quickly. Conversely, as the economy moves into recession or a slowdown, jobs and average wages usually fall or slowdown. This is evident for most of the occupations in both industries.

9.1 Air Transportation

Air Transportation provided 55.2 thousand tourism jobs to the Canadian economy in 2002, up from 47.2 thousand in 1988, but down from a high of 64.4 thousand in 2000. The industry contributes about 10% of all tourism jobs. In total, the industry contributed 57.1 thousand jobs to the Canadian economy in 2002. This was 0.4% of all jobs in the Canadian economy. Total employment reached a high of 69.5 thousand jobs in 2000.

Some 80% of jobs in Air Transportation are full-time. This share remained relatively constant throughout 1988 to 2002. Self-employment jobs remained steady at just over 1% of all jobs. They also involve slightly fewer hours of work per year than full-time employee jobs, but “pay” slightly more per hour worked.

The average annual wage in Air Transportation was \$59.4 thousand in 2002 for full time jobs, or \$30.90 per hour. This was up from \$39.7 thousand in 1988. Air pilots (\$92,000) and management (\$76,000) were the highest paid jobs. Wages were considerably higher in air transportation than in the rest of the economy. In 2002, the average hourly wage was \$22.81 for all industries in the Canadian economy.

Jobs involved in the upfront delivery of services (flight attendants and pilots), were more prevalent in the industry in 2002 than in 1988. In 1988, pilots comprised 12.2% of all employee jobs in the industry. By 2002, this had increased to 14.9%. Similarly, the share for purser and flight attendant jobs increased from 13.5% to 18.6% over the same period. Conversely, business, finance and administration jobs consisted of 16.2% of all employee jobs in 1988. This dropped to 11.5% in 2002. These developments seem to coincide with airlines’ increased focus on the bottom line in the increasingly competitive skies over the last decade or so. Pursers and flight attendant jobs made up the biggest occupational group in the industry in 2002.

Table 5: Percent distribution of jobs (total, full-time and part-time), hours worked and wages & salaries by occupation and industry (1988 and 2002)

	Jobs						Hours worked		Wages & salaries	
	All		Full-time		Part-time		All		All	
	1988	2002	1988	2002	1988	2002	1988	2002	1988	2002
Air Transportation										
Management Occupations (A)	6.9	5.5	7.4	7.0	1.6	2.1	9.0	8.6	11.1	9.3
Business, Finance and Administrative Occupations (B)	16.2	11.6	15.3	11.5	12.2	11.1	16.1	12.0	12.7	9.0
Air Pilots, Flight Engineers and Flying Instructors (C171)	12.2	13.8	13.8	16.3	7.4	6.9	11.9	15.4	21.7	26.2
Purser and Flight Attendants (G712)	13.5	18.0	12.6	16.9	17.6	26.3	10.3	14.2	10.6	14.2
Airline Sales and Service Agents (G713)	15.9	18.2	13.1	14.7	33.6	28.6	14.8	15.8	11.6	12.0
Aircraft Mechanics & Aircraft Inspectors (H415)	7.7	7.7	9.8	9.1	1.8	2.0	9.0	9.5	8.2	9.1
Air Transport Ramp Attendants (H737)	7.1	8.5	7.6	7.8	10.3	8.6	7.1	7.5	5.4	5.7
All Other Air Transport Occupations	20.6	16.7	20.5	16.8	15.7	15.4	21.8	17.2	18.7	14.4
Accommodation Services										
Accommodation Service Managers (A222)	7.0	8.3	9.0	10.3	1.5	2.9	10.7	11.9	13.2	14.9
Other Managers (A, ex. A222)	3.9	4.5	5.0	5.6	0.8	1.4	5.9	5.9	8.8	9.5
Business, Finance and Administrative Occupations (B)	7.2	7.0	8.3	7.8	4.0	4.8	8.1	7.6	9.2	8.7
Sales and Service Supervisors (G01)	2.8	3.8	3.4	4.9	1.2	0.7	3.3	4.8	3.7	4.9
Chefs and Cooks (G41)	7.9	6.9	9.3	8.0	3.9	3.8	8.9	8.1	9.5	8.1
Occupations in Food and Beverage Service (G51)	19.2	12.8	17.0	10.7	25.4	18.5	17.2	10.9	16.0	10.3
Hotel Front Desk Clerks (G715)	6.5	11.5	6.4	11.4	6.8	11.7	6.5	11.5	5.8	10.3
Cleaners (G83)	23.0	24.6	20.5	22.5	29.9	30.3	19.6	21.4	16.6	18.3
Food Counter Attendants and Kitchen Helpers (G96)	4.9	4.6	3.8	3.1	8.1	8.7	3.9	3.4	3.1	2.5
All Other Occupations in Accommodation	17.6	16.0	17.3	15.6	18.5	17.2	15.8	14.6	14.2	12.5

Airline sales and service agent jobs were the most likely to be part-time. This occupational group comprised more than 1/4 of total part-time jobs in the industry in 2002. Aircraft mechanics and jobs in management occupations were the most likely to be full-time.

Note – above is confusing – it is unclear what is the conditioning factor – the fact of a part-time job (i.e., columns sum to 100%), or the fact of a job in a particular occupation (i.e., rows sum to 100%). In this case, FT/pt status is used as the conditioning factor.

Labour productivity generally increased from 1988 to 2002 for Air Transportation. Measured as real tourism GDP per hour worked (attributable to tourism), labour productivity is an important contributor to the improvement of living standards in a country and an important indicator of the competitiveness of an industry. Labour productivity was the lowest in 1991 and the highest in 1999, nearly doubling over this period. In 2002, in the post 9/11 era and with the global downturn in tourism, it stood 0.8% below its peak in 1999.

Table 6: Tourism Labour Productivity Index: Air Transportation and Accommodation, 1988=100 (GDP per hour)

	1988	1990	1992	1994	1996	1998	1999	2000	2001	2002
Air Transportation	100.00	77.22	82.14	94.65	102.83	126.60	140.13	133.45	139.17	138.94
Accommodation	100.00	95.54	99.83	99.26	99.97	101.81	99.55	103.82	106.64	112.66

9.2 Accommodation Services

Relative to Air Transportation, Accommodation Services is much more labour-intensive. It had 50% more tourism GDP, but well over twice the tourism employment. Job gains over 1988 to 2002 were variable. Tourism jobs peaked at 131,000 in 1999. In 2002, the level stood at 125,000. The total accommodation industry registered 241.2 thousand jobs in 2002, 1.5% of the total economy.

The year 1991 registered the largest annual loss of jobs at 9.1%. However, the period 2000 to 2002 has recorded three consecutive decreases in jobs, the only time this has happened since 1988. The year 1990 recorded the greatest increase in jobs (7.7%).

Accommodation differs from Air Transportation in that a larger share of its employee jobs are part-time, almost 27% in 2002. This ratio has been relatively stable, edging up from 25% in 1988. Part-time jobs tend to be shed during economic downturns. The years 1990 and 2001 registered the lowest shares of part-time jobs over the period.

Self-employment also plays a larger role in the industry, making up about 4% of all jobs, three times the rate in Air Transportation. Self-employment jobs generated 4.5% of the income earned, as their average annual income was higher than that of employees throughout 1988 to 2002.

Full-time employee jobs paid \$25,700 per year in 2002, up from \$17,000 in 1988. The average wage per hour for all employee jobs was \$12.28. Full-time jobs paid substantially more than part-time jobs (\$12.75 versus \$9.35). "Other Managers" jobs paid the highest salaries, \$45,600 per year for full-timers. For all jobs in the Canadian economy, the average annual wage was \$39.7 thousand.

Cleaning jobs made up nearly one-fourth of all employee jobs in the industry. However, less than one-fifth of all wages and salaries went to these jobs, as they were more likely to be part-time. They also had a lower average hourly wage.

The out-sourcing of food services by accommodation providers led to a significant shift in the occupational distribution of employee jobs in this industry. This trend has also been registered in the TSA. Over 6,000 jobs disappeared from 1988 to 2002 in the food related occupations (chefs and

cooks and occupations in food and beverage services). Occupations in food and beverage services comprised 19% of all jobs in the industry in 1988, but only 13% in 2002. Hotel front desk clerks, in turn, gained 6,000 jobs, nearly doubling from 1988 and representing 11.5% of all jobs in the industry in 2002.

“Food-counter attendants and kitchen helpers” was the occupation with the largest share of its jobs as part-time, 51%. Sales and service supervisors, at 95%, had the highest share of jobs as full-time.

Labour productivity peaked in 2002 for Accommodation. It was then 18% higher than its low point in 1990. Labour productivity was about 40% lower in Accommodation than in Air Transportation in 2002.

Table 7: Percent distribution of full-time and part-time jobs by occupation and industry (1988 and 2002)

	<i>Jobs</i>			
	Full-time		Part-time	
	1988	2002	1988	2002
Air Transportation				
Management Occupations (A)	0.93	0.94	0.07	0.06
Business, Finance and Administrative Occupations (B)	0.82	0.81	0.18	0.19
Air Pilots, Flight Engineers and Flying Instructors (C171)	0.87	0.91	0.13	0.09
Pursers and Flight Attendants (G712)	0.71	0.73	0.29	0.27
Airline Sales and Service Agents (G713)	0.61	0.67	0.39	0.33
Aircraft Mechanics & Aircraft Inspectors (H415)	0.96	0.95	0.04	0.05
Air Transport Ramp Attendants (H737)	0.77	0.78	0.23	0.22
All Other Air Transport Occupations	0.81	0.81	0.19	0.19
Industry	0.79	0.80	0.21	0.20
Accommodation Services				
Accommodation Service Managers (A222)	0.94	0.91	0.06	0.09
Other Managers (A, ex. A222)	0.95	0.92	0.05	0.08
Business, Finance and Administrative Occupations (B)	0.85	0.81	0.15	0.19
Sales and Service Supervisors (G01)	0.89	0.95	0.11	0.05
Chefs and Cooks (G41)	0.87	0.85	0.13	0.15
Occupations in Food and Beverage Service (G51)	0.65	0.61	0.35	0.39
Hotel Front Desk Clerks (G715)	0.73	0.73	0.27	0.27
Cleaners (G93)	0.66	0.67	0.34	0.33
Food Counter Attendants and Kitchen Helpers (G96)	0.57	0.49	0.43	0.51
All Other Occupations in Accommodation	0.73	0.71	0.27	0.29
Industry	0.74	0.73	0.26	0.27

10.0 Conclusions and recommendations

The results of this study suggest that it is feasible to build a Human Resource Module to the TSA at least on an annual basis, for some key labour variables.

The results indicate that splitting the job data into both detailed industries and occupations, takes the HRM to a level at which small sample sizes and sampling variability introduce some erratic behaviour. However, smoothing techniques and a limited use of manual adjustment based on professional judgement, yield more reasonable data in particular with respect to the time-series growth patterns. Indeed, with smoothing, it appears that it would be possible to build in more occupational detail than was provided in this study (the selection of occupations was made well before the decision to smooth the data). In this study, a three-year moving average was applied across-the-board. This approach may not be the way to go in an operational context. In particular, the degree of smoothing could be tailored to each series or blocks of series, aiming to keep it as light as possible.

It would seem that building in further dimensionality to capture socio-demographic characteristics of job holders (given their industry, occupation and full-/part-time job status) is possible. Other considerations include providing more timely data, regional data and seasonal data. These developments would probably require a higher degree of smoothing, more frequent intervention or compromising on occupational or industry details, or some combination of the three.

The results also indicate that the data from 1988 to 1996 are more volatile. Part of this may be due to the fact that the SNA job data for this time period were still under development when obtained for this study. It may also stem from the fact that the survey/statistical system has been improved substantially since 1997, especially with PIPES, the redesign of the LFS, and the increased use of administrative data in the redesigned SEPH. As a result of the lower quality of data from 1988 to 1996, it is recommended that future HRM work involve only data from 1997 and onward.

A few other issues warrant attention in future work:

- Because, the aim here was to develop time series for 1988-2002, the LFS as a source of earnings data was not investigated, as LFS earnings data were not available until 1997. Looking ahead, however, it would be hard to ignore this as a potential source.
- The carte blanche application of tourism ratios across occupations does not seem plausible in all instances. This issue needs to be reconsidered.
- While some unreported tips are imputed in the employment earnings data for the HRM, not all are accounted for, and there is an outstanding question as to how to allocate them across occupations. In this study, the imputation for unreported tips is simply prorated across occupations. A better allocation needs to be determined.

In terms of next steps, it would be useful to explore what can be done to build in socio-demographic details for the current pilot industries. It will be important at the outset to identify the desired characteristics and the detail sought (e.g., which age groups). It must be borne in mind that it will be difficult to build further details into the existing details (i.e., to split the cells any further) and obtain reasonable results. Some compromises may need to be made, such as giving up some occupational detail in order to bring in gender and age groups.

Another possible direction would be to complete the HRM for all the other tourism industries. New data issues, not encountered in air and accommodation, may be faced. However, the methodology would be similar to that used in this account.

Appendix A: Basic statistical tables

It is important to note that all of the results provided come from the 3-year moving average, smoothing exercise, and should be considered as experimental. Moreover, the SNA totals shown in Tables 1A and 2A are based on data that were under development when obtained for this study, and subsequent refinements were not taken into account here. The revised SNA totals are expected to be released in February 2005.

Total industry results

The total employment results are shown in Tables 1A – 1H (for Air Transportation) and Tables 2A – 2H (for Accommodation Services). For each industry, there are eight tables:

Table A: industry (SNA) totals on selected variables (employee and self-employment jobs)

Table B: annual percentage changes for variables in Table A

Table C: occupational details on variables in Table A (employee jobs)

Table D: annual percentage changes for variables in Table C

Table E: occupational details on variables in Table A (full-time employee jobs)

Table F: annual percentage changes for variables in Table E

Table G: occupational details on variables in Table A (part-time employee jobs)

Table H: annual percentage changes for variables in Table G

Table A contains the main summary statistics (SNA totals) at the industry level. It contains five panels of statistics for (1) all jobs, (2) all employee jobs, (3) all full-time employee jobs, (4) all part-time employee jobs, and (5) all self-employment jobs. The content of each of these panels is described below. Similar explanations apply to the remaining Tables.

(1) All jobs

This panel gives the number of all jobs (employee plus self-employment, full-time plus part-time). It gives the total hours worked and the total income from employment associated with these jobs.

It also shows the total labor income associated with employee jobs – this consists of gross wage and salary income plus supplementary labor income. Supplementary labor income can be calculated as labor income (this panel) minus wages and salaries for all employee jobs (next panel).

(2) All employee jobs

This panel gives the number of all employee jobs (full-time plus part-time). It gives the number of full-time equivalent jobs (which is the sum of full-time employee jobs, plus part-time employee jobs converted to FTEs by dividing total hours worked in part-time jobs by average hours worked in full-time jobs). These calculations are done at the occupational level – they do not give the same results as calculations done at the industry level.

It also gives the total hours worked and the total wages and salaries associated with all employee jobs. Average annual hours worked, average annual wage and salary income and average hourly earnings are also shown. These are averages per employee job.

It might be noted that the average hourly earnings in the HRM include an implicit premium on top of the straight wage for tips (in Accommodation Services only) and paid absences, sick leave, vacation leave, etc. (in both pilot industries).

(3) All full-time employee jobs

This panel shows the same variables as the preceding panel, except now for full-time employee jobs. FTEs are not shown in this case (because the number of FTEs for full-time jobs is just the number of full-time jobs).

(4) All part-time employee jobs

This panel shows the same variables as the panel for all jobs, except now for part-time employee jobs. FTEs are not shown in this case (the number of FTEs for part-time jobs is just the number of FTEs for all jobs minus the number of full-time jobs).

(5) All self-employment jobs

This panel gives the number of self-employment jobs (full-time plus part-time). It also gives the total hours worked and the total labour income from self-employment. The labour income is imputed by valuing hours worked at the average hourly labor income of paid employees, by full- and part-time status, in the same industry.

The panel also shows the average (per job) annual hours worked by the self-employed and their average annual (imputed) income from self-employment.

Tourism results

The tourism employment results are shown in Tables 1A – 1H (for Air Transportation) and Tables 2A – 2H (for Accommodation Services). For each industry, there are eight tables:

Table A: industry totals on “generated by tourism” variables (employee and self-employment jobs)

Table B: annual percentage changes for variables in Table A

Table C: occupational details on variables in Table A (employee jobs)

Table D: annual percentage changes for variables in Table C

Table E: occupational details on variables in Table A (full-time employee jobs)

Table F: annual percentage changes for variables in Table E

Table G: occupational details on variables in Table A (part-time employee jobs)

Table H: annual percentage changes for variables in Table G

These tables have the same structure and content as the tables discussed above, except all the aggregates are for the tourism portions only. It might be noted that the methodology assumes that averages, such as average annual wages and salaries, average annual hours worked and average hourly earnings are the same for the tourism and non-tourism portions and hence the same as for the total industry.

Appendix A: Basic statistical tables

Total industry results

Total industry estimates

Table A1a: Number of jobs, hours worked, and employment earnings, by class of worker, Canada, 1988-2002

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Air Transportation (NAICS 481)															
Total jobs															
Number of jobs	49,738	53,481	54,336	51,936	47,854	49,313	52,343	55,904	58,449	59,096	63,377	66,036	69,529	62,733	57,069
Hours worked (millions)	86.9	92.4	94.6	90.0	83.9	87.6	93.8	97.5	101.1	102.1	108.6	112.6	118.2	107.8	98.4
Income from employment (\$ millions)	1,956.4	2,135.3	2,286.5	2,364.4	2,269.7	2,276.1	2,387.0	2,551.0	2,705.5	2,920.4	3,201.6	3,528.3	3,811.0	3,562.1	3,328.4
Of which:															
Labour income (\$ millions)	1,931.9	2,109.7	2,261.7	2,338.5	2,243.1	2,251.7	2,364.7	2,526.1	2,678.6	2,890.0	3,164.0	3,482.7	3,763.8	3,515.2	3,282.5
All employee jobs															
Number of jobs	49,210	52,951	53,796	51,383	47,292	48,736	51,768	55,315	57,816	58,455	62,662	65,273	68,720	61,947	56,312
Number of full-time equivalent jobs	44,773	49,049	49,650	47,352	43,236	44,626	47,540	50,563	52,574	52,577	56,114	58,725	62,506	55,823	50,662
Hours worked (millions)	85.8	91.3	93.6	89.0	82.9	86.6	93.0	96.6	100.1	101.0	107.3	111.1	116.7	106.3	97.0
Wages and salaries (\$ millions)	1,738.7	1,898.7	2,035.5	2,104.5	2,018.7	2,026.5	2,138.2	2,273.5	2,410.7	2,600.9	2,872.4	3,132.1	3,384.5	3,137.9	2,949.5
Average annual hours worked	1,744	1,724	1,740	1,732	1,753	1,777	1,796	1,746	1,731	1,728	1,713	1,703	1,698	1,716	1,723
Average annual wages and salaries (\$)	35,332	35,857	37,838	40,958	42,686	41,581	41,304	41,101	41,695	44,494	45,839	47,984	49,251	50,654	52,379
Average hourly wage (\$)	20.25	20.80	21.74	23.65	24.35	23.39	23.00	23.54	24.09	25.75	26.76	28.18	29.00	29.51	30.40
Full-time employee jobs															
Number of jobs	38,943	42,629	42,988	41,196	37,786	39,308	42,081	44,273	45,671	45,445	48,605	51,561	55,088	48,642	45,277
Hours worked (millions)	75.5	79.5	81.7	77.8	73.3	76.6	82.6	85.1	87.3	87.9	93.6	98.1	103.0	93.1	87.1
Wages and salaries (\$ millions)	1,547.6	1,673.9	1,796.3	1,862.4	1,809.7	1,817.3	1,927.6	2,034.7	2,135.9	2,299.0	2,544.4	2,810.0	3,037.2	2,794.2	2,691.5
Average annual hours worked	1,939	1,866	1,900	1,888	1,941	1,949	1,962	1,922	1,910	1,933	1,925	1,902	1,870	1,915	1,924
Average annual wages and salaries (\$)	39,740	39,267	41,786	45,210	47,892	46,232	45,807	45,957	46,767	50,589	52,349	54,498	55,133	57,445	59,446
Average hourly wage (\$)	20.49	21.04	22.00	23.94	24.67	23.73	23.35	23.92	24.48	26.17	27.20	28.65	29.49	30.00	30.90
Part-time employee jobs															
Number of jobs	10,267	10,322	10,808	10,187	9,507	9,428	9,687	11,042	12,145	13,010	14,058	13,712	13,632	13,305	11,034
Hours worked (millions)	10.3	11.7	12.0	11.2	9.6	10.0	10.4	11.5	12.8	13.1	13.8	13.1	13.7	13.2	9.9
Wages and salaries (\$ millions)	191.1	224.8	239.2	242.1	209.1	209.2	210.6	238.8	274.7	301.9	328.0	322.1	347.3	343.7	258.0
Average annual hours worked	1,005	1,137	1,106	1,101	1,006	1,064	1,073	1,041	1,054	1,011	981	952	1,005	992	901
Average annual wages and salaries (\$)	18,614	21,775	22,133	23,766	21,994	22,188	21,743	21,628	22,622	23,204	23,330	23,492	25,479	25,831	23,381
Average hourly wage (\$)	18.52	19.15	20.01	21.59	21.85	20.86	20.26	20.78	21.46	22.96	23.79	24.68	25.36	26.03	25.95
All self-employment jobs															
Number of jobs	528	529	540	553	561	577	575	590	633	641	715	764	809	786	757
Hours worked (millions)	1.1	1.1	1.0	1.0	1.0	0.9	0.9	0.9	1.0	1.1	1.3	1.5	1.5	1.4	1.4
Income from self-employment (\$ millions)	24.4	25.6	24.8	26.0	26.6	24.4	22.3	24.8	27.0	30.5	37.6	45.6	47.2	46.9	45.9
Average annual hours worked	2,056	2,089	1,898	1,786	1,750	1,625	1,525	1,610	1,591	1,662	1,784	1,904	1,809	1,807	1,793
Average annual income (\$)	46,277	48,288	45,855	46,939	47,349	42,248	38,792	42,118	42,594	47,550	52,591	59,677	58,359	59,742	60,657

Total industry estimates

Table A1b: Number of jobs, hours worked, and employment earnings, by class of worker, Canada, annual percentage changes, 1988-2002

Air Transportation (NAICS 481)	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Total jobs															
Number of jobs	-	7.5	1.6	-4.4	-7.9	3.0	6.1	6.8	4.6	1.1	7.2	4.2	5.3	-9.8	-9.0
Hours worked (millions)	-	6.3	2.4	-4.9	-6.8	4.4	7.2	3.9	3.6	1.0	6.4	3.7	4.9	-8.8	-8.7
Income from employment (\$ millions)	-	9.1	7.1	3.4	-4.0	0.3	4.9	6.9	6.1	7.9	9.6	10.2	8.0	-6.5	-6.6
Of which:															
Labour income (\$ millions)	-	9.2	7.2	3.4	-4.1	0.4	5.0	6.8	6.0	7.9	9.5	10.1	8.1	-6.6	-6.6
All employee jobs															
Number of jobs	-	7.6	1.6	-4.5	-8.0	3.1	6.2	6.9	4.5	1.1	7.2	4.2	5.3	-9.9	-9.1
Number of full-time equivalent jobs	-	9.6	1.2	-4.6	-8.7	3.2	6.5	6.4	4.0	0.0	6.7	4.7	6.4	-10.7	-9.2
Hours worked (millions)	-	6.3	2.6	-4.9	-6.8	4.5	7.3	3.9	3.6	0.9	6.3	3.5	5.0	-8.9	-8.7
Wages and salaries (\$ millions)	-	9.2	7.2	3.4	-4.1	0.4	5.5	6.3	6.0	7.9	10.4	9.0	8.1	-7.3	-6.0
Average annual hours worked	-	-1.2	1.0	-0.5	1.2	1.4	1.0	-2.8	-0.9	-0.2	-0.9	-0.6	-0.3	1.1	0.4
Average annual wages and salaries (\$)	-	1.5	5.5	8.2	4.2	-2.6	-0.7	-0.5	1.4	6.7	3.0	4.7	2.6	2.9	3.4
Average hourly wage (\$)	-	2.7	4.5	8.8	3.0	-3.9	-1.7	2.4	2.3	6.9	3.9	5.3	2.9	1.8	3.0
Full-time employee jobs															
Number of jobs	-	9.5	0.8	-4.2	-8.3	4.0	7.1	5.2	3.2	-0.5	7.0	6.1	6.8	-11.7	-6.9
Hours worked (millions)	-	5.3	2.7	-4.7	-5.7	4.4	7.8	3.0	2.6	0.7	6.5	4.8	5.0	-9.6	-6.5
Wages and salaries (\$ millions)	-	8.2	7.3	3.7	-2.8	0.4	6.1	5.6	5.0	7.6	10.7	10.4	8.1	-8.0	-3.7
Average annual hours worked	-	-3.8	1.8	-0.6	2.8	0.4	0.7	-2.1	-0.6	1.2	-0.4	-1.2	-1.7	2.4	0.5
Average annual wages and salaries (\$)	-	-1.2	6.4	8.2	5.9	-3.5	-0.9	0.3	1.8	8.2	3.5	4.1	1.2	4.2	3.5
Average hourly wage (\$)	-	2.7	4.5	8.9	3.0	-3.8	-1.6	2.4	2.4	6.9	3.9	5.3	2.9	1.8	3.0
Part-time employee jobs															
Number of jobs	-	0.5	4.7	-5.7	-6.7	-0.8	2.7	14.0	10.0	7.1	8.0	-2.5	-0.6	-2.4	-17.1
Hours worked (millions)	-	13.7	1.9	-6.2	-14.7	4.8	3.7	10.5	11.4	2.7	4.9	-5.3	4.9	-3.6	-24.7
Wages and salaries (\$ millions)	-	17.6	6.4	1.2	-13.6	0.0	0.7	13.4	15.0	9.9	8.6	-1.8	7.8	-1.0	-24.9
Average annual hours worked	-	13.1	-2.7	-0.5	-8.6	5.7	0.9	-3.0	1.3	-4.1	-2.9	-2.9	5.5	-1.2	-9.2
Average annual wages and salaries (\$)	-	17.0	1.6	7.4	-7.5	0.9	-2.0	-0.5	4.6	2.6	0.5	0.7	8.5	1.4	-9.5
Average hourly wage (\$)	-	3.4	4.5	7.9	1.2	-4.6	-2.9	2.6	3.3	7.0	3.6	3.7	2.8	2.7	-0.3
All self-employment jobs															
Number of jobs	-	0.3	2.0	2.4	1.5	2.8	-0.4	2.5	7.3	1.3	11.5	6.9	6.0	-2.9	-3.6
Hours worked (millions)	-	1.9	-7.3	-3.7	-0.6	-4.5	-6.5	8.3	6.1	5.8	19.7	14.1	0.7	-3.1	-4.4
Income from self-employment (\$ millions)	-	4.7	-3.1	4.8	2.4	-8.3	-8.5	11.3	8.5	13.0	23.3	21.3	3.6	-0.6	-2.2
Average annual hours worked	-	1.6	-9.2	-5.9	-2.0	-7.1	-6.2	5.6	-1.2	4.4	7.4	6.7	-5.0	-0.1	-0.8
Average annual income	-	4.3	-5.0	2.4	0.9	-10.8	-8.2	8.6	1.1	11.6	10.6	13.5	-2.2	2.4	1.5

Total industry estimates

Table A1c: Number of employee jobs, hours worked, and employment earnings, by occupation, Canada, 1988-2002

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Air Transportation (NAICS 481)															
All occupations in Air Transportation															
Number of jobs	49,210	52,851	53,896	51,383	47,392	48,741	51,780	55,335	57,716	58,455	62,662	65,273	68,520	61,947	56,312
Number of full-time equivalent jobs	44,773	49,049	49,650	47,352	43,236	44,626	47,540	50,563	52,574	52,577	56,114	58,725	62,506	55,823	50,662
Hours worked (millions)	86.1	91.5	93.5	89.3	83.6	86.6	93.2	96.9	100.1	101.0	107.3	111.1	116.7	106.3	97.0
Wages and salaries (\$ millions)	1,747.4	1,898.7	2,035.5	2,085.6	2,005.7	2,026.5	2,138.2	2,277.5	2,410.7	2,600.9	2,872.4	3,133.1	3,380.5	3,133.9	2,951.5
Average annual hours worked	1,751	1,731	1,735	1,738	1,764	1,777	1,800	1,751	1,735	1,727	1,712	1,701	1,703	1,716	1,723
Average annual wages and salaries (\$)	35,509	35,925	37,767	40,591	42,322	41,577	41,294	41,158	41,767	44,494	45,839	48,000	49,336	50,590	52,414
Average hourly wage (\$)	20.28	20.75	21.77	23.36	24.00	23.39	22.94	23.50	24.07	25.76	26.77	28.21	28.97	29.47	30.42
Management occupations (A)															
Number of jobs	3,390	3,527	3,403	2,956	2,823	2,852	2,902	2,766	2,854	3,028	3,431	3,821	4,095	3,837	3,557
Number of full-time equivalent jobs	3,264	3,428	3,299	2,876	2,749	2,785	2,843	2,713	2,790	2,933	3,305	3,682	3,950	3,695	3,427
Hours worked (millions)	7.7	7.7	7.5	6.6	6.7	6.8	7.0	6.5	6.7	7.0	7.8	8.2	9.2	8.6	8.3
Wages and salaries (\$ millions)	193.8	196.7	193.3	178.9	179.4	189.7	199.8	196.1	195.7	212.8	239.4	271.9	302.4	283.0	273.8
Average annual hours worked	2,285	2,188	2,218	2,246	2,363	2,385	2,399	2,352	2,354	2,322	2,276	2,140	2,248	2,240	2,345
Average annual wages and salaries (\$)	57,168	55,759	56,806	60,517	63,529	66,491	68,840	70,902	68,575	70,282	69,773	71,148	73,853	73,744	76,963
Average hourly wage (\$)	25.02	25.48	25.61	26.95	26.89	27.87	28.70	30.14	29.13	30.27	30.66	33.24	32.85	32.92	32.82
Business, Finance and Administrative Occupations (B)															
Number of jobs	7,951	8,198	7,934	7,025	6,632	7,055	7,281	7,143	6,920	6,880	7,263	7,465	7,789	7,059	6,450
Number of full-time equivalent jobs	7,248	7,614	7,325	6,499	6,095	6,491	6,713	6,552	6,326	6,204	6,510	6,708	7,072	6,330	5,781
Hours worked (millions)	13.8	14.5	14.1	12.4	11.8	12.7	13.6	13.0	12.5	12.5	13.1	13.4	13.9	12.7	11.6
Wages and salaries (\$ millions)	222.4	226.5	222.4	204.7	203.4	214.3	224.3	220.2	215.6	229.1	251.1	275.5	298.8	281.8	267.0
Average annual hours worked	1,741	1,767	1,777	1,771	1,781	1,805	1,861	1,815	1,812	1,821	1,808	1,790	1,786	1,793	1,798
Average annual wages and salaries (\$)	27,965	27,630	28,033	29,145	30,667	30,378	30,808	30,825	31,157	33,299	34,568	36,910	38,367	39,929	41,388
Average hourly wage (\$)	16.06	15.64	15.77	16.46	17.22	16.83	16.55	16.99	17.19	18.29	19.12	20.62	21.48	22.27	23.02
Air Pilots, Flight Engineers and Flying Instructors (C171)															
Number of jobs	6,005	6,597	6,761	6,600	6,051	6,428	7,106	7,671	7,958	7,877	8,620	9,244	9,837	9,001	8,413
Number of full-time equivalent jobs	5,689	6,324	6,450	6,303	5,773	6,128	6,792	7,338	7,590	7,476	8,179	8,807	9,451	8,594	8,028
Hours worked (millions)	10.3	11.0	11.5	11.3	10.7	11.7	13.4	14.2	14.9	14.9	16.3	16.9	17.3	16.2	14.9
Wages and salaries (\$ millions)	378.5	417.3	457.7	476.3	456.5	463.0	494.8	525.6	566.0	615.2	698.4	787.1	859.9	810.8	774.0
Average annual hours worked	1,711	1,671	1,696	1,716	1,774	1,817	1,863	1,848	1,870	1,890	1,866	1,830	1,761	1,797	1,772
Average annual wages and salaries (\$)	63,030	63,254	67,706	72,163	75,439	72,031	69,635	68,517	71,119	78,102	81,020	85,145	87,408	90,079	92,008
Average hourly wage (\$)	36.85	37.85	39.92	42.05	42.52	39.64	36.98	37.07	38.02	41.33	42.96	46.52	49.62	50.14	51.92
Pursers and Flight Attendants (G712)															
Number of jobs	6,654	7,384	7,496	7,171	6,463	6,922	7,728	8,970	9,975	10,443	11,308	11,718	12,609	11,517	10,496
Number of full-time equivalent jobs	5,953	6,803	6,795	6,546	5,831	6,305	7,088	8,205	9,078	9,309	9,966	10,308	11,241	10,097	9,147
Hours worked (millions)	8.9	9.6	9.9	9.5	8.6	9.5	10.7	12.1	13.0	13.4	14.4	15.0	16.3	15.0	13.7
Wages and salaries (\$ millions)	184.9	209.8	230.7	236.0	222.6	238.1	259.9	301.2	340.2	376.4	418.8	448.7	493.1	454.7	419.1
Average annual hours worked	1,338	1,303	1,327	1,321	1,338	1,368	1,391	1,352	1,307	1,288	1,274	1,278	1,292	1,302	1,310
Average annual wages and salaries (\$)	27,793	28,418	30,773	32,908	34,447	34,395	33,628	33,579	34,103	36,048	37,035	38,290	39,109	39,478	39,933

Total industry estimates

Table A1c: Number of employee jobs, hours worked, and employment earnings, by occupation, Canada, 1988-2002

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Air Transportation (NAICS 481)															
Average hourly wage (\$)	20.78	21.82	23.20	24.91	25.74	25.15	24.18	24.84	26.09	28.00	29.06	29.96	30.28	30.31	30.48
Airline Sales and Service Agents (G713)															
Number of jobs	7,800	8,466	8,996	9,029	8,349	8,346	8,833	9,868	10,445	10,660	11,411	11,818	12,144	10,819	9,456
Number of full-time equivalent jobs	6,613	7,422	7,765	7,786	7,041	7,039	7,467	8,239	8,773	8,806	9,407	9,844	10,415	9,087	7,880
Hours worked (millions)	12.8	13.8	14.6	14.6	13.6	13.7	14.8	15.9	16.4	16.6	17.7	18.5	19.5	17.4	15.3
Wages and salaries (\$ millions)	202.9	225.2	255.7	280.2	271.8	267.0	279.1	307.9	330.6	356.4	388.0	412.1	434.0	393.3	354.2
Average annual hours worked	1,635	1,627	1,628	1,615	1,623	1,647	1,673	1,615	1,575	1,553	1,547	1,566	1,603	1,610	1,617
Average annual wages and salaries (\$)	26,009	26,599	28,423	31,033	32,556	31,988	31,591	31,203	31,654	33,428	34,007	34,872	35,738	36,352	37,455
Average hourly wage (\$)	15.91	16.35	17.46	19.22	20.06	19.42	18.88	19.33	20.10	21.53	21.98	22.26	22.29	22.58	23.16
Aircraft Mechanics and Aircraft Inspectors (H415)															
Number of jobs	3,782	4,312	4,408	4,445	4,043	4,184	4,421	4,666	4,806	4,725	4,802	4,903	5,263	4,792	4,539
Number of full-time equivalent jobs	3,704	4,225	4,314	4,347	3,943	4,079	4,309	4,536	4,660	4,573	4,645	4,752	5,120	4,644	4,403
Hours worked (millions)	7.7	8.6	8.9	9.0	8.0	8.2	8.6	9.3	9.6	9.4	9.4	9.8	10.6	9.7	9.3
Wages and salaries (\$ millions)	142.8	163.6	182.1	203.5	197.4	196.4	202.0	210.9	222.9	232.7	247.1	264.9	290.2	273.9	268.9
Average annual hours worked	2,048	2,000	2,022	2,024	1,974	1,963	1,934	1,988	2,003	1,987	1,966	1,990	2,010	2,019	2,038
Average annual wages and salaries (\$)	37,759	37,929	41,312	45,795	48,840	46,943	45,678	45,193	46,387	49,244	51,467	54,030	55,148	57,152	59,255
Average hourly wage (\$)	18.44	18.97	20.43	22.62	24.75	23.91	23.62	22.73	23.16	24.79	26.17	27.15	27.44	28.30	29.07
Air Transport Ramp Attendants (H737)															
Number of jobs	3,498	3,749	4,172	4,239	4,021	4,143	4,507	5,089	5,213	5,141	5,356	5,455	5,497	4,837	4,281
Number of full-time equivalent jobs	3,056	3,347	3,761	3,798	3,536	3,683	4,022	4,507	4,628	4,511	4,694	4,839	4,959	4,299	3,795
Hours worked (millions)	6.1	6.7	7.1	7.6	7.6	7.6	8.1	8.8	9.2	9.1	9.2	9.5	9.4	8.4	7.2
Wages and salaries (\$ millions)	95.0	106.3	121.2	135.9	132.9	131.0	138.4	152.1	159.9	170.4	184.3	196.0	204.9	184.1	168.9
Average annual hours worked	1,742	1,786	1,703	1,781	1,888	1,824	1,802	1,731	1,763	1,774	1,717	1,739	1,714	1,732	1,693
Average annual wages and salaries (\$)	27,157	28,363	29,044	32,051	33,052	31,621	30,714	29,879	30,678	33,147	34,417	35,930	37,282	38,053	39,463
Average hourly wage (\$)	15.59	15.88	17.05	17.99	17.50	17.33	17.05	17.26	17.40	18.69	20.05	20.66	21.75	21.97	23.31
All other occupations in Air Transportation															
Number of jobs	10,129	10,619	10,726	9,919	9,010	8,811	8,999	9,162	9,544	9,701	10,472	10,849	11,286	10,085	9,120
Number of full-time equivalent jobs	9,246	9,885	9,942	9,197	8,267	8,116	8,308	8,473	8,729	8,765	9,408	9,785	10,298	9,078	8,201
Hours worked (millions)	18.8	19.6	19.8	18.3	16.6	16.4	17.1	17.1	17.7	18.0	19.4	19.9	20.5	18.4	16.6
Wages and salaries (\$ millions)	327.2	353.3	372.4	370.2	341.7	327.1	339.9	363.5	379.6	407.9	445.2	476.9	497.1	452.4	425.6
Average annual hours worked	1,855	1,842	1,846	1,844	1,841	1,864	1,903	1,869	1,854	1,858	1,853	1,830	1,816	1,828	1,825
Average annual wages and salaries (\$)	32,300	33,274	34,718	37,322	37,924	37,119	37,770	39,682	39,777	42,045	42,516	43,960	44,045	44,855	46,666
Average hourly wage (\$)	17.41	18.07	18.81	20.24	20.60	19.91	19.85	21.23	21.45	22.63	22.95	24.02	24.25	24.54	25.57

Total industry estimates

Table A1d: Number of employee jobs, hours worked, and employment earnings, by occupation, Canada, annual percentage changes, 1988-2002

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Air Transportation (NAICS 481)															
All occupations in Air Transportation															
Number of jobs	-	7.4	2.0	-4.7	-7.8	2.8	6.2	6.9	4.3	1.3	7.2	4.2	5.0	-9.6	-9.1
Number of full-time equivalent jobs	-	9.6	1.2	-4.6	-8.7	3.2	6.5	6.4	4.0	0.0	6.7	4.7	6.4	-10.7	-9.2
Hours worked (millions)	-	6.2	2.2	-4.5	-6.4	3.6	7.6	4.0	3.3	0.8	6.3	3.5	5.1	-8.9	-8.7
Wages and salaries (\$ millions)	-	8.7	7.2	2.5	-3.8	1.0	5.5	6.5	5.8	7.9	10.4	9.1	7.9	-7.3	-5.8
Average annual hours worked	-	-1.1	0.2	0.2	1.5	0.8	1.3	-2.7	-0.9	-0.4	-0.9	-0.7	0.1	0.8	0.4
Average annual wages and salaries (\$)	-	1.2	5.1	7.5	4.3	-1.8	-0.7	-0.3	1.5	6.5	3.0	4.7	2.8	2.5	3.6
Average hourly wage (\$)	-	2.3	4.9	7.3	2.7	-2.5	-1.9	2.5	2.4	7.0	3.9	5.4	2.7	1.7	3.2
Management occupations (A)															
Number of jobs	-	4.1	-3.5	-13.2	-4.5	1.0	1.8	-4.7	3.2	6.1	13.3	11.4	7.2	-6.3	-7.3
Number of full-time equivalent jobs	-	5.0	-3.8	-12.8	-4.4	1.3	2.1	-4.6	2.8	5.1	12.7	11.4	7.3	-6.5	-7.2
Hours worked (millions)	-	-0.3	-2.2	-12.1	0.5	2.0	2.3	-6.5	3.3	4.6	11.1	4.7	12.5	-6.6	-2.9
Wages and salaries (\$ millions)	-	1.5	-1.7	-7.5	0.3	5.7	5.4	-1.8	-0.2	8.7	12.5	13.6	11.2	-6.4	-3.2
Average annual hours worked	-	-4.2	1.3	1.3	5.2	1.0	0.6	-1.9	0.1	-1.4	-2.0	-6.0	5.0	-0.4	4.7
Average annual wages and salaries (\$)	-	-2.5	1.9	6.5	5.0	4.7	3.5	3.0	-3.3	2.5	-0.7	2.0	3.8	-0.1	4.4
Average hourly wage (\$)	-	1.8	0.5	5.2	-0.2	3.7	3.0	5.0	-3.4	3.9	1.3	8.4	-1.2	0.2	-0.3
Business, Finance and Administrative Occupations (B)															
Number of jobs	-	3.1	-3.2	-11.5	-5.6	6.4	3.2	-1.9	-3.1	-0.6	5.6	2.8	4.3	-9.4	-8.6
Number of full-time equivalent jobs	-	5.0	-3.8	-11.3	-6.2	6.5	3.4	-2.4	-3.4	-1.9	4.9	3.0	5.4	-10.5	-8.7
Hours worked (millions)	-	4.6	-2.7	-11.8	-5.1	7.8	6.4	-4.3	-3.3	-0.1	4.9	1.7	4.1	-9.0	-8.4
Wages and salaries (\$ millions)	-	1.9	-1.8	-7.9	-0.7	5.4	4.7	-1.8	-2.1	6.2	9.6	9.7	8.5	-5.7	-5.3
Average annual hours worked	-	1.5	0.6	-0.3	0.6	1.4	3.1	-2.5	-0.1	0.5	-0.7	-1.0	-0.2	0.4	0.3
Average annual wages and salaries (\$)	-	-1.2	1.5	4.0	5.2	-0.9	1.4	0.1	1.1	6.9	3.8	6.8	3.9	4.1	3.7
Average hourly wage (\$)	-	-2.6	0.9	4.3	4.6	-2.3	-1.6	2.6	1.2	6.4	4.5	7.9	4.2	3.7	3.4
Air Pilots, Flight Engineers and Flying Instructors (C171)															
Number of jobs	-	9.9	2.5	-2.4	-8.3	6.2	10.6	7.9	3.8	-1.0	9.4	7.2	6.4	-8.5	-6.5
Number of full-time equivalent jobs	-	11.2	2.0	-2.3	-8.4	6.1	10.8	8.0	3.4	-1.5	9.4	7.7	7.3	-9.1	-6.6
Hours worked (millions)	-	7.3	4.0	-1.2	-5.2	8.8	14.6	6.0	5.0	0.0	9.2	4.1	2.4	-6.7	-7.8
Wages and salaries (\$ millions)	-	10.3	9.7	4.0	-4.1	1.4	6.9	6.2	7.7	8.7	13.5	12.7	9.3	-5.7	-4.5
Average annual hours worked	-	-2.3	1.5	1.2	3.4	2.4	3.6	-1.8	1.2	1.0	-0.2	-3.0	-3.8	2.0	-1.4
Average annual wages and salaries (\$)	-	0.4	7.0	6.6	4.5	-4.5	-3.3	-1.6	3.8	9.8	3.7	5.1	2.7	3.1	2.1
Average hourly wage (\$)	-	2.7	5.5	5.3	1.1	-6.8	-6.7	0.2	2.6	8.7	3.9	8.3	6.7	1.0	3.6
Pursers and Flight Attendants (G712)															
Number of jobs	-	11.0	1.5	-4.3	-9.9	7.1	11.6	16.1	11.2	4.7	8.3	3.6	7.6	-8.7	-8.9
Number of full-time equivalent jobs	-	14.3	-0.1	-3.7	-10.9	8.1	12.4	15.8	10.6	2.6	7.1	3.4	9.1	-10.2	-9.4
Hours worked (millions)	-	8.0	3.4	-4.7	-8.7	9.5	13.5	12.8	7.5	3.1	7.2	3.9	8.7	-7.9	-8.3
Wages and salaries (\$ millions)	-	13.5	9.9	2.3	-5.7	7.0	9.2	15.9	12.9	10.7	11.2	7.1	9.9	-7.8	-7.8
Average annual hours worked	-	-2.6	1.8	-0.4	1.3	2.2	1.7	-2.8	-3.3	-1.5	-1.0	0.3	1.0	0.8	0.6
Average annual wages and salaries (\$)	-	2.2	8.3	6.9	4.7	-0.2	-2.2	-0.1	1.6	5.7	2.7	3.4	2.1	0.9	1.2

Total industry estimates

Table A1d: Number of employee jobs, hours worked, and employment earnings, by occupation, Canada, annual percentage changes, 1988-2002

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Air Transportation (NAICS 481)															
Average hourly wage (\$)	-	5.0	6.3	7.4	3.4	-2.3	-3.9	2.7	5.0	7.3	3.8	3.1	1.1	0.1	0.6
Airline Sales and Service Agents (G713)															
Number of jobs	-	8.5	6.3	0.4	-7.5	0.0	5.8	11.7	5.8	2.1	7.0	3.6	2.8	-10.9	-12.6
Number of full-time equivalent jobs	-	12.2	4.6	0.3	-9.6	0.0	6.1	10.3	6.5	0.4	6.8	4.6	5.8	-12.7	-13.3
Hours worked (millions)	-	8.0	6.3	-0.5	-7.0	1.4	7.5	7.8	3.2	0.6	6.7	4.8	5.2	-10.5	-12.2
Wages and salaries (\$ millions)	-	11.0	13.6	9.6	-3.0	-1.8	4.5	10.3	7.4	7.8	8.9	6.2	5.3	-9.4	-9.9
Average annual hours worked	-	-0.5	0.1	-0.8	0.5	1.5	1.6	-3.5	-2.5	-1.4	-0.4	1.2	2.3	0.4	0.5
Average annual wages and salaries (\$)	-	2.3	6.9	9.2	4.9	-1.7	-1.2	-1.2	1.4	5.6	1.7	2.5	2.5	1.7	3.0
Average hourly wage (\$)	-	2.8	6.8	10.1	4.4	-3.2	-2.8	2.3	4.0	7.1	2.1	1.3	0.1	1.3	2.6
Aircraft Mechanics and Aircraft Inspectors (H415)															
Number of jobs	-	14.0	2.2	0.8	-9.0	3.5	5.7	5.5	3.0	-1.7	1.6	2.1	7.3	-9.0	-5.3
Number of full-time equivalent jobs	-	14.1	2.1	0.8	-9.3	3.4	5.6	5.3	2.7	-1.9	1.6	2.3	7.7	-9.3	-5.2
Hours worked (millions)	-	11.3	3.4	1.0	-11.3	2.9	4.1	8.5	3.8	-2.5	0.6	3.3	8.4	-8.5	-4.4
Wages and salaries (\$ millions)	-	14.5	11.4	11.8	-3.0	-0.5	2.8	4.4	5.7	4.4	6.2	7.2	9.6	-5.6	-1.8
Average annual hours worked	-	-2.4	1.1	0.1	-2.5	-0.5	-1.5	2.8	0.7	-0.8	-1.0	1.2	1.0	0.5	0.9
Average annual wages and salaries (\$)	-	0.5	8.9	10.9	6.6	-3.9	-2.7	-1.1	2.6	6.2	4.5	5.0	2.1	3.6	3.7
Average hourly wage (\$)	-	2.9	7.7	10.7	9.4	-3.4	-1.2	-3.7	1.9	7.0	5.6	3.7	1.1	3.2	2.7
Air Transport Ramp Attendants (H737)															
Number of jobs	-	7.2	11.3	1.6	-5.1	3.0	8.8	12.9	2.4	-1.4	4.2	1.9	0.8	-12.0	-11.5
Number of full-time equivalent jobs	-	9.5	12.4	1.0	-6.9	4.2	9.2	12.1	2.7	-2.5	4.1	3.1	2.5	-13.3	-11.7
Hours worked (millions)	-	9.9	6.1	6.3	0.6	-0.5	7.4	8.5	4.3	-0.8	0.8	3.2	-0.7	-11.1	-13.5
Wages and salaries (\$ millions)	-	11.9	14.0	12.1	-2.2	-1.4	5.6	9.9	5.2	6.6	8.2	6.3	4.6	-10.2	-8.2
Average annual hours worked	-	2.5	-4.6	4.6	6.0	-3.4	-1.2	-3.9	1.8	0.6	-3.2	1.3	-1.5	1.0	-2.2
Average annual wages and salaries (\$)	-	4.4	2.4	10.4	3.1	-4.3	-2.9	-2.7	2.7	8.0	3.8	4.4	3.8	2.1	3.7
Average hourly wage (\$)	-	1.9	7.4	5.5	-2.7	-1.0	-1.7	1.2	0.9	7.4	7.3	3.0	5.3	1.0	6.1
All other occupations in Air Transportation															
Number of jobs	-	4.8	1.0	-7.5	-9.2	-2.2	2.1	1.8	4.2	1.6	7.9	3.6	4.0	-10.6	-9.6
Number of full-time equivalent jobs	-	6.9	0.6	-7.5	-10.1	-1.8	2.4	2.0	3.0	0.4	7.3	4.0	5.2	-11.8	-9.7
Hours worked (millions)	-	4.1	1.2	-7.6	-9.3	-1.0	4.3	0.0	3.4	1.9	7.6	2.3	3.2	-10.1	-9.7
Wages and salaries (\$ millions)	-	8.0	5.4	-0.6	-7.7	-4.3	3.9	7.0	4.4	7.4	9.2	7.1	4.2	-9.0	-5.9
Average annual hours worked	-	-0.7	0.2	-0.1	-0.2	1.3	2.1	-1.8	-0.8	0.2	-0.3	-1.2	-0.8	0.6	-0.1
Average annual wages and salaries (\$)	-	3.0	4.3	7.5	1.6	-2.1	1.8	5.1	0.2	5.7	1.1	3.4	0.2	1.8	4.0
Average hourly wage (\$)	-	3.8	4.1	7.6	1.8	-3.3	-0.3	7.0	1.0	5.5	1.4	4.7	1.0	1.2	4.2

Total industry estimates

Table A1e: Number of full-time employee, hours worked, and employment earnings, by occupation, Canada, 1988-2002

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Air Transportation (NAICS 481)															
All occupations in Air Transportation															
Number of jobs	38,943	42,529	43,088	41,196	37,886	39,308	42,081	44,273	45,571	45,445	48,605	51,561	54,888	48,642	45,277
Hours worked (millions)	75.3	79.8	81.6	78.1	73.5	76.6	82.8	85.2	87.4	87.9	93.6	98.0	103.0	93.1	87.1
Wages and salaries (\$ millions)	1,547.6	1,673.9	1,796.3	1,853.4	1,796.7	1,817.3	1,927.6	2,034.7	2,135.9	2,299.0	2,544.4	2,810.0	3,037.2	2,794.2	2,691.5
Average annual hours worked	1,934	1,875	1,893	1,895	1,941	1,949	1,968	1,925	1,917	1,933	1,925	1,900	1,876	1,915	1,924
Average annual wages and salaries (\$)	39,740	39,359	41,689	44,991	47,423	46,232	45,807	45,957	46,870	50,589	52,349	54,498	55,334	57,445	59,446
Average hourly wage (\$)	20.55	20.99	22.02	23.74	24.43	23.73	23.28	23.87	24.45	26.17	27.20	28.68	29.49	30.00	30.90
Management occupations (A)															
Number of jobs	3,147	3,295	3,173	2,779	2,676	2,718	2,785	2,660	2,734	2,866	3,219	3,579	3,817	3,563	3,328
Hours worked (millions)	7.5	7.4	7.3	6.4	6.5	6.6	6.8	6.4	6.6	6.9	7.6	7.9	8.9	8.3	8.1
Wages and salaries (\$ millions)	185.5	187.7	184.7	171.6	173.4	183.9	194.6	191.4	190.8	207.5	233.6	266.2	296.2	276.7	269.0
Average annual hours worked	2,373	2,252	2,288	2,308	2,426	2,443	2,449	2,398	2,408	2,397	2,363	2,221	2,331	2,327	2,434
Average annual wages and salaries (\$)	58,951	56,958	58,201	61,762	64,785	67,631	69,881	71,955	69,781	72,399	72,574	74,366	77,616	77,670	80,844
Average hourly wage (\$)	24.85	25.29	25.44	26.76	26.70	27.68	28.53	30.00	28.97	30.20	30.72	33.48	33.30	33.38	33.21
Business, Finance and Administrative Occupations (B)															
Number of jobs	6,533	6,840	6,587	5,835	5,472	5,842	6,055	5,852	5,590	5,464	5,739	5,981	6,306	5,593	5,224
Hours worked (millions)	12.5	13.0	12.7	11.2	10.6	11.5	12.2	11.6	11.1	11.0	11.6	11.9	12.4	11.2	10.5
Wages and salaries (\$ millions)	202.4	204.7	201.4	185.8	186.3	196.1	206.0	201.1	194.3	204.8	223.5	246.7	266.0	248.4	241.5
Average annual hours worked	1,910	1,902	1,925	1,914	1,938	1,962	2,019	1,979	1,982	2,019	2,018	1,992	1,967	2,000	2,006
Average annual wages and salaries (\$)	30,978	29,931	30,584	31,844	34,045	33,563	34,019	34,358	34,757	37,489	38,949	41,251	42,179	44,419	46,235
Average hourly wage (\$)	16.22	15.73	15.89	16.64	17.57	17.11	16.85	17.36	17.53	18.57	19.30	20.71	21.44	22.21	23.05
Air Pilots, Flight Engineers and Flying Instructors (C171)															
Number of jobs	5,233	5,813	5,936	5,831	5,352	5,730	6,383	6,864	7,096	6,993	7,671	8,327	8,949	8,105	7,654
Hours worked (millions)	9.4	10.1	10.6	10.5	10.0	10.9	12.6	13.3	13.9	13.9	15.2	16.0	16.4	15.3	14.2
Wages and salaries (\$ millions)	336.0	370.8	407.8	430.5	416.5	425.1	458.7	485.1	523.2	569.1	648.2	737.3	808.7	758.6	732.9
Average annual hours worked	1,806	1,743	1,778	1,797	1,860	1,906	1,970	1,932	1,961	1,991	1,988	1,921	1,833	1,882	1,857
Average annual wages and salaries (\$)	64,197	63,793	68,696	73,819	77,819	74,192	71,855	70,672	73,726	81,384	84,494	88,540	90,361	93,586	95,754
Average hourly wage (\$)	35.55	36.59	38.64	41.08	41.85	38.93	36.47	36.58	37.59	40.87	42.50	46.09	49.29	49.73	51.56
Pursers and Flight Attendants (G712)															
Number of jobs	4,743	5,421	5,432	5,291	4,793	5,237	5,958	6,863	7,449	7,580	8,105	8,515	9,251	8,202	7,705
Hours worked (millions)	7.1	7.7	7.9	7.7	7.1	7.9	9.0	10.1	10.7	10.9	11.7	12.4	13.4	12.2	11.6
Wages and salaries (\$ millions)	142.3	158.6	175.2	184.4	177.7	193.6	215.6	249.2	274.9	299.5	330.5	358.3	391.2	354.3	341.7
Average annual hours worked	1,414	1,414	1,463	1,447	1,483	1,501	1,516	1,478	1,436	1,444	1,446	1,453	1,449	1,485	1,503
Average annual wages and salaries (\$)	30,001	29,245	32,261	34,846	37,079	36,970	36,192	36,315	36,909	39,515	40,773	42,076	42,283	43,195	44,354
Average hourly wage (\$)	20.06	20.69	22.05	24.08	25.00	24.62	23.87	24.58	25.70	27.36	28.20	28.96	29.19	29.08	29.51

Total industry estimates

Table A1e: Number of full-time employee, hours worked, and employment earnings, by occupation, Canada, 1988-2002

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Air Transportation (NAICS 481)															
Airline Sales and Service Agents (G713)															
Number of jobs	4,771	5,354	5,628	5,658	5,159	5,205	5,569	6,036	6,346	6,410	6,957	7,562	8,086	6,939	6,300
Hours worked (millions)	9.2	9.9	10.6	10.6	9.9	10.2	11.0	11.7	11.9	12.0	13.1	14.2	15.1	13.3	12.2
Wages and salaries (\$ millions)	151.3	168.1	192.0	212.3	206.8	200.8	210.5	226.5	241.0	262.0	290.4	319.9	341.7	304.0	286.3
Average annual hours worked	1,928	1,855	1,886	1,872	1,925	1,953	1,979	1,934	1,875	1,880	1,877	1,881	1,869	1,917	1,941
Average annual wages and salaries (\$)	31,717	31,403	34,120	37,524	40,093	38,581	37,791	37,525	37,969	40,869	41,743	42,303	42,259	43,804	45,440
Average hourly wage (\$)	16.45	16.92	18.09	20.04	20.83	19.76	19.10	19.41	20.25	21.74	22.24	22.50	22.61	22.85	23.41
Aircraft Mechanics and Aircraft Inspectors (H415)															
Number of jobs	3,632	4,155	4,243	4,271	3,871	4,003	4,229	4,439	4,552	4,462	4,532	4,648	5,006	4,532	4,317
Hours worked (millions)	7.6	8.5	8.8	8.8	7.8	8.1	8.4	9.1	9.4	9.2	9.2	9.5	10.3	9.4	9.1
Wages and salaries (\$ millions)	141.4	162.0	180.4	201.4	195.3	194.0	199.3	207.6	219.1	228.5	242.7	260.6	285.4	268.9	265.1
Average annual hours worked	2,091	2,041	2,066	2,070	2,024	2,014	1,985	2,045	2,066	2,053	2,033	2,053	2,066	2,084	2,101
Average annual wages and salaries (\$)	38,927	38,978	42,510	47,150	50,444	48,451	47,130	46,772	48,135	51,207	53,554	56,063	57,014	59,328	61,406
Average hourly wage (\$)	18.61	19.10	20.58	22.78	24.93	24.06	23.74	22.87	23.30	24.95	26.34	27.31	27.59	28.47	29.23
Air Transport Ramp Attendants (H737)															
Number of jobs	2,687	2,916	3,270	3,268	3,046	3,135	3,413	3,758	3,824	3,738	3,927	4,133	4,279	3,672	3,334
Hours worked (millions)	5.4	5.8	6.2	6.5	6.5	6.4	6.9	7.3	7.6	7.6	7.7	8.1	8.1	7.2	6.4
Wages and salaries (\$ millions)	86.4	96.0	109.6	121.9	119.3	116.4	122.5	132.4	138.3	147.6	160.8	174.0	182.7	162.6	153.1
Average annual hours worked	1,993	2,000	1,889	1,988	2,148	2,052	2,019	1,955	1,985	2,021	1,959	1,961	1,900	1,948	1,910
Average annual wages and salaries (\$)	32,147	32,921	33,525	37,289	39,166	37,131	35,895	35,230	36,164	39,497	40,940	42,109	42,702	44,263	45,917
Average hourly wage (\$)	16.13	16.46	17.75	18.76	18.24	18.09	17.78	18.02	18.22	19.54	20.90	21.48	22.47	22.72	24.04
All other occupations in Air Transportation															
Number of jobs	8,196	8,735	8,819	8,263	7,516	7,438	7,689	7,800	7,979	7,932	8,454	8,815	9,195	8,035	7,415
Hours worked (millions)	16.7	17.3	17.6	16.4	15.1	15.1	15.9	15.8	16.2	16.3	17.4	17.9	18.3	16.3	15.1
Wages and salaries (\$ millions)	302.3	326.1	345.1	345.6	321.4	307.5	320.4	341.3	354.4	379.9	414.7	447.0	465.3	420.8	401.9
Average annual hours worked	2,032	1,979	1,992	1,989	2,007	2,024	2,062	2,021	2,027	2,057	2,062	2,029	1,991	2,031	2,030
Average annual wages and salaries (\$)	36,885	37,328	39,134	41,829	42,754	41,342	41,674	43,759	44,409	47,901	49,058	50,706	50,608	52,374	54,193
Average hourly wage (\$)	18.15	18.87	19.65	21.03	21.31	20.43	20.22	21.65	21.90	23.29	23.79	24.98	25.42	25.79	26.70

Total industry estimates

Table A1f: Number of full-time employee, hours worked, and employment earnings, by occupation, Canada, annual percentage changes, 1988-2002

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Air Transportation (NAICS 481)															
All occupations in Air Transportation															
Number of jobs	-	9.2	1.3	-4.4	-8.0	3.8	7.1	5.2	2.9	-0.3	7.0	6.1	6.5	-11.4	-6.9
Hours worked (millions)	-	5.9	2.3	-4.3	-5.8	4.1	8.1	2.9	2.5	0.6	6.5	4.7	5.1	-9.6	-6.5
Wages and salaries (\$ millions)	-	8.2	7.3	3.2	-3.1	1.1	6.1	5.6	5.0	7.6	10.7	10.4	8.1	-8.0	-3.7
Average annual hours worked	-	-3.0	0.9	0.1	2.4	0.4	1.0	-2.2	-0.4	0.9	-0.4	-1.3	-1.3	2.0	0.5
Average annual wages and salaries (\$)	-	-1.0	5.9	7.9	5.4	-2.5	-0.9	0.3	2.0	7.9	3.5	4.1	1.5	3.8	3.5
Average hourly wage (\$)	-	2.1	4.9	7.8	2.9	-2.9	-1.9	2.6	2.4	7.0	3.9	5.4	2.8	1.8	3.0
Management occupations (A)															
Number of jobs	-	4.7	-3.7	-12.4	-3.7	1.6	2.4	-4.5	2.8	4.8	12.3	11.2	6.6	-6.7	-6.6
Hours worked (millions)	-	-0.6	-2.2	-11.7	1.2	2.3	2.7	-6.5	3.2	4.3	10.7	4.5	11.9	-6.8	-2.3
Wages and salaries (\$ millions)	-	1.2	-1.6	-7.1	1.0	6.1	5.9	-1.6	-0.3	8.8	12.6	13.9	11.3	-6.6	-2.8
Average annual hours worked	-	-5.1	1.6	0.9	5.1	0.7	0.2	-2.1	0.4	-0.5	-1.4	-6.0	4.9	-0.2	4.6
Average annual wages and salaries (\$)	-	-3.4	2.2	6.1	4.9	4.4	3.3	3.0	-3.0	3.8	0.2	2.5	4.4	0.1	4.1
Average hourly wage (\$)	-	1.8	0.6	5.2	-0.2	3.7	3.1	5.2	-3.4	4.3	1.7	9.0	-0.5	0.2	-0.5
Business, Finance and Administrative Occupations (B)															
Number of jobs	-	4.7	-3.7	-11.4	-6.2	6.8	3.6	-3.3	-4.5	-2.3	5.0	4.2	5.4	-11.3	-6.6
Hours worked (millions)	-	4.3	-2.6	-11.9	-5.1	8.1	6.7	-5.3	-4.3	-0.4	4.9	2.9	4.1	-9.8	-6.3
Wages and salaries (\$ millions)	-	1.2	-1.6	-7.8	0.2	5.3	5.1	-2.4	-3.4	5.4	9.1	10.4	7.8	-6.6	-2.8
Average annual hours worked	-	-0.4	1.2	-0.5	1.2	1.2	2.9	-2.0	0.2	1.9	-0.1	-1.3	-1.2	1.7	0.3
Average annual wages and salaries (\$)	-	-3.4	2.2	4.1	6.9	-1.4	1.4	1.0	1.2	7.9	3.9	5.9	2.2	5.3	4.1
Average hourly wage (\$)	-	-3.0	1.0	4.7	5.6	-2.6	-1.5	3.0	1.0	5.9	4.0	7.3	3.5	3.6	3.7
Air Pilots, Flight Engineers and Flying Instructors (C171)															
Number of jobs	-	11.1	2.1	-1.8	-8.2	7.1	11.4	7.5	3.4	-1.5	9.7	8.5	7.5	-9.4	-5.6
Hours worked (millions)	-	7.2	4.1	-0.7	-5.0	9.7	15.2	5.5	5.0	0.0	9.5	4.9	2.6	-7.0	-6.8
Wages and salaries (\$ millions)	-	10.4	10.0	5.6	-3.2	2.1	7.9	5.8	7.9	8.8	13.9	13.7	9.7	-6.2	-3.4
Average annual hours worked	-	-3.4	2.0	1.1	3.5	2.5	3.4	-1.9	1.5	1.5	-0.2	-3.4	-4.6	2.6	-1.3
Average annual wages and salaries (\$)	-	-0.6	7.7	7.5	5.4	-4.7	-3.1	-1.6	4.3	10.4	3.8	4.8	2.1	3.6	2.3
Average hourly wage (\$)	-	2.9	5.6	6.3	1.9	-7.0	-6.3	0.3	2.8	8.7	4.0	8.4	6.9	0.9	3.7
Pursers and Flight Attendants (G712)															
Number of jobs	-	14.3	0.2	-2.6	-9.4	9.3	13.8	15.2	8.5	1.8	6.9	5.1	8.6	-11.3	-6.1
Hours worked (millions)	-	8.1	3.7	-3.7	-7.2	10.6	14.9	12.3	5.5	2.3	7.0	5.6	8.3	-9.1	-5.0
Wages and salaries (\$ millions)	-	11.4	10.5	5.2	-3.6	8.9	11.4	15.6	10.3	8.9	10.3	8.4	9.2	-9.4	-3.5
Average annual hours worked	-	-5.4	3.5	-1.1	2.5	1.2	1.0	-2.6	-2.8	0.6	0.1	0.5	-0.3	2.5	1.2
Average annual wages and salaries (\$)	-	-2.5	10.3	8.0	6.4	-0.3	-2.1	0.3	1.6	7.1	3.2	3.2	0.5	2.2	2.7
Average hourly wage (\$)	-	3.1	6.6	9.2	3.9	-1.5	-3.1	3.0	4.6	6.5	3.1	2.7	0.8	-0.4	1.5

Total industry estimates

Table A11: Number of full-time employee, hours worked, and employment earnings, by occupation, Canada, annual percentage changes, 1988-2002

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Air Transportation (NAICS 481)															
Airline Sales and Service Agents (G713)															
Number of jobs	-	12.2	5.1	0.5	-8.8	0.9	7.0	8.4	5.1	1.0	8.5	8.7	6.9	-14.2	-9.2
Hours worked (millions)	-	8.0	6.9	-0.2	-6.3	2.4	8.4	5.9	1.9	1.3	8.4	8.9	6.3	-12.0	-8.1
Wages and salaries (\$ millions)	-	11.1	14.2	10.6	-2.6	-2.9	4.8	7.6	6.4	8.7	10.9	10.2	6.8	-11.0	-5.8
Average annual hours worked	-	-3.8	1.7	-0.7	2.8	1.4	1.4	-2.3	-3.0	0.3	-0.1	0.2	-0.6	2.6	1.3
Average annual wages and salaries (\$)	-	-1.0	8.7	10.0	6.8	-3.8	-2.0	-0.7	1.2	7.6	2.1	1.3	-0.1	3.7	3.7
Average hourly wage (\$)	-	2.9	6.9	10.8	3.9	-5.1	-3.4	1.6	4.4	7.4	2.3	1.1	0.5	1.1	2.5
Aircraft Mechanics and Aircraft Inspectors (H415)															
Number of jobs	-	14.4	2.1	0.6	-9.4	3.4	5.6	5.0	2.6	-2.0	1.6	2.5	7.7	-9.5	-4.7
Hours worked (millions)	-	11.6	3.4	0.8	-11.4	2.9	4.1	8.2	3.6	-2.6	0.6	3.6	8.4	-8.7	-4.0
Wages and salaries (\$ millions)	-	14.5	11.4	11.6	-3.0	-0.7	2.8	4.2	5.5	4.3	6.2	7.3	9.5	-5.8	-1.4
Average annual hours worked	-	-2.4	1.2	0.2	-2.2	-0.5	-1.4	3.0	1.0	-0.6	-0.9	1.0	0.6	0.8	0.8
Average annual wages and salaries (\$)	-	0.1	9.1	10.9	7.0	-4.0	-2.7	-0.8	2.9	6.4	4.6	4.7	1.7	4.1	3.5
Average hourly wage (\$)	-	2.6	7.7	10.7	9.4	-3.5	-1.3	-3.7	1.9	7.1	5.6	3.7	1.1	3.2	2.7
Air Transport Ramp Attendants (H737)															
Number of jobs	-	8.5	12.1	-0.1	-6.8	2.9	8.9	10.1	1.7	-2.2	5.1	5.2	3.5	-14.2	-9.2
Hours worked (millions)	-	8.9	5.9	5.2	0.7	-1.7	7.1	6.6	3.3	-0.5	1.8	5.3	0.3	-12.0	-11.0
Wages and salaries (\$ millions)	-	11.1	14.2	11.2	-2.1	-2.4	5.3	8.1	4.4	6.8	8.9	8.2	5.0	-11.0	-5.8
Average annual hours worked	-	0.3	-5.6	5.3	8.0	-4.4	-1.6	-3.2	1.6	1.8	-3.1	0.1	-3.1	2.5	-2.0
Average annual wages and salaries (\$)	-	2.4	1.8	11.2	5.0	-5.2	-3.3	-1.9	2.7	9.2	3.7	2.9	1.4	3.7	3.7
Average hourly wage (\$)	-	2.1	7.8	5.7	-2.8	-0.8	-1.7	1.4	1.1	7.3	7.0	2.8	4.7	1.1	5.8
All other occupations in Air Transportation															
Number of jobs	-	6.6	1.0	-6.3	-9.0	-1.0	3.4	1.4	2.3	-0.6	6.6	4.3	4.3	-12.6	-7.7
Hours worked (millions)	-	3.8	1.6	-6.4	-8.2	-0.2	5.3	-0.6	2.6	0.8	6.9	2.6	2.3	-10.9	-7.7
Wages and salaries (\$ millions)	-	7.9	5.8	0.1	-7.0	-4.3	4.2	6.5	3.8	7.2	9.2	7.8	4.1	-9.6	-4.5
Average annual hours worked	-	-2.6	0.7	-0.1	0.9	0.9	1.9	-2.0	0.3	1.4	0.3	-1.6	-1.9	2.0	0.0
Average annual wages and salaries (\$)	-	1.2	4.8	6.9	2.2	-3.3	0.8	5.0	1.5	7.9	2.4	3.4	-0.2	3.5	3.5
Average hourly wage (\$)	-	4.0	4.1	7.0	1.3	-4.1	-1.0	7.1	1.2	6.3	2.1	5.0	1.8	1.5	3.5

Total industry estimates

Table A1g: Number of part-time employee, hours worked, and employment earnings, by occupation, Canada, 1988-2002

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Air Transportation (NAICS 481)															
All occupations in Air Transportation															
Number of jobs	10,267	10,322	10,808	10,187	9,507	9,433	9,699	11,062	12,145	13,010	14,058	13,712	13,632	13,305	11,034
Hours worked (millions)	11	12	12	11	10	10	10	12	13	13	14	13	14	13	10
Wages and salaries (\$ millions)	200	225	239	232	209	209	211	243	275	302	328	323	343	340	260
Average annual hours worked	1,056	1,137	1,106	1,101	1,055	1,063	1,073	1,057	1,053	1,009	979	953	1,005	992	901
Average annual wages and salaries (\$)	19,464	21,775	22,133	22,794	21,994	22,176	21,716	21,950	22,622	23,204	23,330	23,565	25,185	25,530	23,563
Average hourly wage (\$)	18.42	19.15	20.01	20.71	20.84	20.86	20.24	20.77	21.48	23.01	23.84	24.74	25.06	25.73	26.15
Management occupations (A)															
Number of jobs	242	232	230	177	147	134	118	106	121	162	212	242	278	275	230
Hours worked (millions)	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.2
Wages and salaries (\$ millions)	8.2	9.0	8.7	7.2	6.0	5.8	5.2	4.7	5.0	5.4	5.8	5.7	6.2	6.3	4.8
Average annual hours worked	1,142	1,287	1,248	1,271	1,209	1,210	1,202	1,197	1,126	995	960	947	1,115	1,117	1,057
Average annual wages and salaries (\$)	34,015	38,752	37,588	40,941	40,731	43,334	44,178	44,504	41,251	32,958	27,197	23,553	22,177	22,808	20,755
Average hourly wage (\$)	29.79	30.11	30.13	32.22	33.70	35.81	36.76	37.19	36.62	33.11	28.33	24.87	19.89	20.42	19.64
Business, Finance and Administrative Occupations (B)															
Number of jobs	1,418	1,358	1,347	1,189	1,160	1,213	1,227	1,291	1,330	1,416	1,524	1,484	1,483	1,466	1,227
Hours worked (millions)	1.4	1.5	1.4	1.3	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.4	1.5	1.5	1.1
Wages and salaries (\$ millions)	20.0	21.8	21.0	18.9	17.1	18.2	18.3	19.1	21.3	24.3	27.6	28.8	32.9	33.4	25.4
Average annual hours worked	963	1,085	1,055	1,068	1,042	1,050	1,083	1,072	1,097	1,055	1,021	976	1,017	1,005	912
Average annual wages and salaries (\$)	14,082	16,043	15,561	15,898	14,741	15,040	14,956	14,811	16,029	17,133	18,079	19,413	22,163	22,794	20,742
Average hourly wage (\$)	14.62	14.79	14.74	14.89	14.15	14.33	13.81	13.81	14.61	16.24	17.71	19.90	21.80	22.68	22.75
Air Pilots, Flight Engineers and Flying Instructors (C171)															
Number of jobs	771	784	824	769	699	698	723	807	862	884	949	917	888	896	758
Hours worked (millions)	0.8	0.9	0.9	0.8	0.8	0.8	0.8	0.9	1.0	1.0	1.0	0.9	0.9	0.9	0.7
Wages and salaries (\$ millions)	42.5	46.4	49.9	45.8	40.0	37.9	36.2	40.5	42.8	46.1	50.3	49.8	51.2	52.3	41.1
Average annual hours worked	1,066	1,138	1,107	1,104	1,121	1,088	1,114	1,136	1,123	1,088	1,063	1,007	1,036	1,025	915
Average annual wages and salaries (\$)	55,112	59,259	60,574	59,596	57,221	54,301	50,035	50,175	49,651	52,150	52,942	54,300	57,652	58,357	54,196
Average hourly wage (\$)	51.69	52.08	54.71	53.99	51.06	49.91	44.90	44.18	44.20	47.93	49.78	53.93	55.67	56.91	59.25
Pursers and Flight Attendants (G712)															
Number of jobs	1,912	1,963	2,064	1,880	1,669	1,686	1,771	2,107	2,526	2,863	3,202	3,203	3,357	3,316	2,791
Hours worked (millions)	1.8	2.0	2.0	1.8	1.5	1.6	1.7	2.0	2.3	2.5	2.7	2.6	2.9	2.8	2.2
Wages and salaries (\$ millions)	42.7	51.3	55.4	51.6	44.9	44.5	44.3	52.0	65.2	76.9	88.3	90.4	101.9	100.4	77.4
Average annual hours worked	947	995	966	966	922	952	968	941	926	873	840	813	859	849	777
Average annual wages and salaries (\$)	22,314	26,130	26,857	27,456	26,890	26,395	25,001	24,665	25,828	26,867	27,574	28,224	30,363	30,282	27,726
Average hourly wage (\$)	23.57	26.26	27.80	28.41	29.16	27.73	25.93	26.20	27.89	30.79	32.81	34.71	35.37	35.66	35.69

Total industry estimates

Table A1g: Number of part-time employee, hours worked, and employment earnings, by occupation, Canada, 1988-2002

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Air Transportation (NAICS 481)															
Airline Sales and Service Agents (G713)															
Number of jobs	3,030	3,111	3,368	3,371	3,190	3,140	3,264	3,832	4,099	4,250	4,454	4,256	4,058	3,880	3,156
Hours worked (millions)	3.6	3.8	4.0	4.0	3.6	3.6	3.8	4.3	4.5	4.5	4.6	4.3	4.4	4.1	3.1
Wages and salaries (\$ millions)	51.6	57.0	63.7	67.9	65.0	66.1	68.6	81.4	89.7	94.4	97.6	92.2	92.3	89.3	67.9
Average annual hours worked	1,172	1,233	1,196	1,182	1,135	1,140	1,151	1,112	1,110	1,060	1,032	1,008	1,073	1,061	971
Average annual wages and salaries (\$)	17,020	18,329	18,904	20,137	20,369	21,060	21,012	21,242	21,877	22,205	21,922	21,669	22,745	23,024	21,514
Average hourly wage (\$)	14.52	14.86	15.80	17.04	17.94	18.47	18.26	19.11	19.71	20.96	21.24	21.49	21.20	21.69	22.15
Aircraft Mechanics and Aircraft Inspectors (H415)															
Number of jobs	150	157	165	174	171	180	193	227	254	262	270	255	257	259	221
Hours worked (millions)	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Wages and salaries (\$ millions)	1.4	1.6	1.7	2.2	2.2	2.4	2.7	3.3	3.8	4.2	4.4	4.3	4.8	5.0	3.8
Average annual hours worked	997	912	881	901	842	841	823	873	878	867	846	843	919	894	815
Average annual wages and salaries (\$)	9,484	10,175	10,533	12,533	12,607	13,501	13,812	14,354	15,069	15,831	16,404	16,993	18,842	19,147	17,325
Average hourly wage (\$)	9.51	11.15	11.95	13.91	14.98	16.04	16.79	16.44	17.16	18.27	19.38	20.16	20.50	21.41	21.26
Air Transport Ramp Attendants (H737)															
Number of jobs	811	833	902	971	975	1,009	1,093	1,331	1,389	1,403	1,428	1,322	1,218	1,164	947
Hours worked (millions)	0.7	0.9	0.9	1.1	1.1	1.1	1.2	1.5	1.6	1.6	1.5	1.4	1.3	1.2	0.9
Wages and salaries (\$ millions)	8.6	10.3	11.5	14.0	13.6	14.6	15.9	19.7	21.6	22.8	23.5	22.0	22.2	21.5	15.9
Average annual hours worked	908	1,036	1,030	1,085	1,078	1,116	1,124	1,101	1,150	1,113	1,051	1,047	1,060	1,049	929
Average annual wages and salaries (\$)	10,630	12,410	12,800	14,417	13,946	14,497	14,540	14,771	15,580	16,229	16,480	16,618	18,241	18,465	16,746
Average hourly wage (\$)	11.71	11.98	12.43	13.28	12.93	12.99	12.94	13.42	13.55	14.58	15.68	15.87	17.21	17.61	18.02
All other occupations in Air Transportation															
Number of jobs	1,933	1,884	1,907	1,656	1,493	1,373	1,311	1,361	1,565	1,770	2,018	2,033	2,092	2,050	1,705
Hours worked (millions)	2.1	2.3	2.2	1.9	1.5	1.4	1.3	1.4	1.5	1.7	2.0	2.0	2.2	2.1	1.6
Wages and salaries (\$ millions)	24.9	27.3	27.3	24.6	20.3	19.5	19.5	22.2	25.3	27.9	30.5	29.9	31.8	31.5	23.7
Average annual hours worked	1,104	1,208	1,173	1,122	1,008	999	973	999	972	968	975	967	1,050	1,033	936
Average annual wages and salaries (\$)	12,857	14,481	14,298	14,834	13,615	14,238	14,866	16,316	16,154	15,794	15,106	14,711	15,190	15,377	13,923
Average hourly wage (\$)	11.65	11.99	12.19	13.22	13.50	14.25	15.27	16.34	16.62	16.31	15.49	15.21	14.47	14.88	14.88

Total industry estimates

Table A1h: Number of part-time employee, hours worked, and employment earnings, by occupation, Canada, annual percentage changes, 1988-2002

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Air Transportation (NAICS 481)															
All occupations in Air Transportation															
Number of jobs	-	0.5	4.7	-5.7	-6.7	-0.8	2.8	14.1	9.8	7.1	8.0	-2.5	-0.6	-2.4	-17.1
Hours worked (millions)	-	8.2	1.9	-6.2	-10.5	0.0	3.8	12.4	9.4	2.6	4.8	-5.0	4.9	-3.6	-24.7
Wages and salaries (\$ millions)	-	12.5	6.4	-2.9	-10.0	0.0	0.7	15.3	13.2	9.9	8.6	-1.5	6.3	-1.1	-23.5
Average annual hours worked	-	7.6	-2.7	-0.5	-4.1	0.7	0.9	-1.5	-0.4	-4.2	-3.0	-2.7	5.5	-1.2	-9.2
Average annual wages and salaries (\$)	-	11.9	1.6	3.0	-3.5	0.8	-2.1	1.1	3.1	2.6	0.5	1.0	6.9	1.4	-7.7
Average hourly wage (\$)	-	3.9	4.5	3.5	0.6	0.1	-3.0	2.6	3.4	7.1	3.6	3.8	1.3	2.6	1.6
Management occupations (A)															
Number of jobs	-	-4.2	-0.8	-23.3	-16.6	-9.2	-12.1	-9.8	13.7	34.7	30.3	14.3	14.8	-1.2	-16.3
Hours worked (millions)	-	8.0	-3.8	-21.8	-20.7	-9.1	-12.7	-10.2	7.1	19.0	29.7	12.8	35.2	-1.0	-20.8
Wages and salaries (\$ millions)	-	9.1	-3.8	-16.4	-17.0	-3.4	-10.4	-9.2	5.4	7.6	7.5	-1.0	8.1	1.6	-23.9
Average annual hours worked	-	12.7	-3.0	1.9	-4.9	0.1	-0.7	-0.4	-5.9	-11.6	-3.6	-1.3	17.7	0.2	-5.4
Average annual wages and salaries (\$)	-	13.9	-3.0	8.9	-0.5	6.4	1.9	0.7	-7.3	-20.1	-17.5	-13.4	-5.8	2.8	-9.0
Average hourly wage (\$)	-	1.1	0.0	6.9	4.6	6.3	2.7	1.2	-1.5	-9.6	-14.4	-12.2	-20.0	2.6	-3.8
Business, Finance and Administrative Occupations (B)															
Number of jobs	-	-4.2	-0.8	-11.7	-2.4	4.5	1.1	5.2	3.0	6.5	7.7	-2.7	0.0	-1.2	-16.3
Hours worked (millions)	-	7.8	-3.5	-10.7	-4.8	5.3	4.3	4.2	5.4	2.4	4.2	-7.0	4.2	-2.3	-24.1
Wages and salaries (\$ millions)	-	9.1	-3.8	-9.8	-9.5	6.6	0.6	4.2	11.5	13.8	13.6	4.5	14.1	1.6	-23.9
Average annual hours worked	-	12.6	-2.7	1.2	-2.5	0.8	3.2	-1.0	2.3	-3.8	-3.2	-4.4	4.2	-1.1	-9.3
Average annual wages and salaries (\$)	-	13.9	-3.0	2.2	-7.3	2.0	-0.6	-1.0	8.2	6.9	5.5	7.4	14.2	2.8	-9.0
Average hourly wage (\$)	-	1.2	-0.3	1.0	-4.9	1.2	-3.6	0.0	5.8	11.1	9.1	12.4	9.6	4.0	0.3
Air Pilots, Flight Engineers and Flying Instructors (C171)															
Number of jobs	-	1.6	5.2	-6.8	-9.0	-0.2	3.6	11.6	6.8	2.6	7.3	-3.4	-3.1	0.9	-15.4
Hours worked (millions)	-	8.5	2.4	-7.1	-7.6	-3.1	6.1	13.7	5.6	-0.6	4.9	-8.6	-0.3	-0.1	-24.5
Wages and salaries (\$ millions)	-	9.3	7.5	-8.3	-12.7	-5.2	-4.6	11.9	5.7	7.8	9.0	-0.9	2.9	2.1	-21.4
Average annual hours worked	-	6.7	-2.7	-0.3	1.5	-2.9	2.4	1.9	-1.1	-3.1	-2.3	-5.3	2.9	-1.0	-10.8
Average annual wages and salaries (\$)	-	7.5	2.2	-1.6	-4.0	-5.1	-7.9	0.3	-1.0	5.0	1.5	2.6	6.2	1.2	-7.1
Average hourly wage (\$)	-	0.8	5.0	-1.3	-5.4	-2.3	-10.0	-1.6	0.1	8.4	3.9	8.3	3.2	2.2	4.1
Pursers and Flight Attendants (G712)															
Number of jobs	-	2.7	5.1	-8.9	-11.2	1.0	5.1	19.0	19.9	13.3	11.9	0.0	4.8	-1.2	-15.8
Hours worked (millions)	-	7.9	2.1	-8.9	-15.3	4.2	6.8	15.7	17.9	6.8	7.7	-3.2	10.7	-2.3	-23.0
Wages and salaries (\$ millions)	-	20.2	8.1	-6.8	-13.1	-0.9	-0.5	17.4	25.6	17.9	14.8	2.4	12.8	-1.5	-22.9
Average annual hours worked	-	5.1	-2.9	0.0	-4.6	3.2	1.7	-2.7	-1.6	-5.8	-3.7	-3.2	5.6	-1.1	-8.5
Average annual wages and salaries (\$)	-	17.1	2.8	2.2	-2.1	-1.8	-5.3	-1.3	4.7	4.0	2.6	2.4	7.6	-0.3	-8.4
Average hourly wage (\$)	-	11.4	5.9	2.2	2.6	-4.9	-6.8	1.4	6.5	10.4	6.6	5.8	1.9	0.8	0.1

Total industry estimates

Table A1h: Number of part-time employee, hours worked, and employment earnings, by occupation, Canada, annual percentage changes, 1988-2002

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Air Transportation (NAICS 481)															
Airline Sales and Service Agents (G713)															
Number of jobs	-	2.7	8.3	0.1	-5.4	-1.6	3.9	17.4	7.0	3.7	4.8	-4.4	-4.6	-4.4	-18.7
Hours worked (millions)	-	8.0	5.0	-1.1	-9.1	-1.1	4.9	13.4	6.8	-1.0	2.1	-6.7	1.5	-5.4	-25.5
Wages and salaries (\$ millions)	-	10.6	11.7	6.6	-4.3	1.8	3.7	18.7	10.2	5.3	3.5	-5.5	0.1	-3.2	-24.0
Average annual hours worked	-	5.2	-3.0	-1.2	-3.9	0.4	0.9	-3.4	-0.1	-4.5	-2.6	-2.3	6.4	-1.1	-8.5
Average annual wages and salaries (\$)	-	7.7	3.1	6.5	1.2	3.4	-0.2	1.1	3.0	1.5	-1.3	-1.2	5.0	1.2	-6.6
Average hourly wage (\$)	-	2.4	6.3	7.8	5.3	2.9	-1.1	4.6	3.1	6.3	1.3	1.2	-1.4	2.3	2.1
Aircraft Mechanics and Aircraft Inspectors (H415)															
Number of jobs	-	4.7	5.2	5.3	-1.5	5.3	6.8	18.0	11.7	3.2	2.8	-5.4	0.8	0.9	-14.7
Hours worked (millions)	-	-4.2	1.6	7.6	-7.9	5.2	4.4	25.3	12.3	1.9	0.5	-5.8	10.0	-1.9	-22.2
Wages and salaries (\$ millions)	-	12.3	8.9	25.3	-0.9	12.7	9.3	22.6	17.3	8.4	6.6	-2.0	11.8	2.5	-22.8
Average annual hours worked	-	-8.5	-3.4	2.2	-6.6	0.0	-2.2	6.1	0.5	-1.3	-2.3	-0.4	9.1	-2.7	-8.9
Average annual wages and salaries (\$)	-	7.3	3.5	19.0	0.6	7.1	2.3	3.9	5.0	5.1	3.6	3.6	10.9	1.6	-9.5
Average hourly wage (\$)	-	17.2	7.1	16.4	7.7	7.1	4.6	-2.1	4.4	6.4	6.1	4.0	1.7	4.5	-0.7
Air Transport Ramp Attendants (H737)															
Number of jobs	-	2.7	8.3	7.6	0.4	3.4	8.4	21.7	4.4	1.0	1.8	-7.4	-7.9	-4.4	-18.7
Hours worked (millions)	-	17.2	7.6	13.4	-0.2	7.1	9.1	19.3	9.0	-2.2	-3.9	-7.8	-6.7	-5.4	-27.9
Wages and salaries (\$ millions)	-	19.9	11.7	21.2	-2.8	7.5	8.7	23.7	10.1	5.2	3.4	-6.6	1.1	-3.2	-26.2
Average annual hours worked	-	14.1	-0.6	5.4	-0.7	3.5	0.7	-2.0	4.5	-3.2	-5.6	-0.4	1.3	-1.1	-11.4
Average annual wages and salaries (\$)	-	16.7	3.1	12.6	-3.3	4.0	0.3	1.6	5.5	4.2	1.5	0.8	9.8	1.2	-9.3
Average hourly wage (\$)	-	2.3	3.7	6.9	-2.6	0.4	-0.4	3.7	1.0	7.6	7.5	1.3	8.4	2.3	2.3
All other occupations in Air Transportation															
Number of jobs	-	-2.5	1.2	-13.1	-9.8	-8.1	-4.5	3.9	14.9	13.1	14.0	0.8	2.9	-2.0	-16.8
Hours worked (millions)	-	6.7	-1.7	-16.9	-18.9	-8.9	-7.0	6.5	11.9	12.7	14.8	0.0	11.6	-3.6	-24.7
Wages and salaries (\$ millions)	-	9.8	-0.1	-9.9	-17.2	-3.9	-0.3	14.0	13.8	10.6	9.1	-1.9	6.2	-0.8	-24.7
Average annual hours worked	-	9.4	-2.9	-4.4	-10.1	-0.9	-2.6	2.6	-2.7	-0.4	0.7	-0.8	8.5	-1.6	-9.4
Average annual wages and salaries (\$)	-	12.6	-1.3	3.7	-8.2	4.6	4.4	9.8	-1.0	-2.2	-4.4	-2.6	3.3	1.2	-9.5
Average hourly wage (\$)	-	2.9	1.7	8.5	2.1	5.5	7.2	7.0	1.7	-1.9	-5.0	-1.8	-4.8	2.9	0.0

Total industry estimates

Table A2a: Number of jobs, hours worked, and employment earnings, by class of worker, Canada, 1988-2002

Accommodation Services (NAICS 721) <i>(excluding NAICS 7213)</i>	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Total jobs															
Number of jobs	224,584	231,344	249,252	225,392	229,830	232,290	236,019	231,965	236,390	234,265	248,397	252,540	246,031	244,270	241,197
Hours worked (millions)	409.5	422.5	453.4	400.0	404.6	405.0	423.3	417.0	424.5	417.1	445.4	453.2	438.6	430.2	415.7
Income from employment (\$ millions)	3,461.0	3,850.5	4,257.4	3,844.8	4,055.7	4,185.0	4,479.9	4,524.8	4,679.8	4,627.1	4,963.9	5,086.2	5,351.5	5,579.8	5,512.0
Of which:															
Labour income (\$ millions)	3,275.9	3,645.5	4,030.2	3,635.4	3,842.5	3,969.2	4,245.4	4,303.8	4,458.4	4,406.4	4,723.0	4,865.7	5,118.6	5,321.8	5,263.1
All employee jobs															
Number of jobs	214,224	220,673	237,755	214,995	219,228	221,575	225,133	221,266	225,486	223,459	237,049	242,566	236,262	234,308	231,759
Number of full-time equivalent jobs	183,439	189,259	204,559	181,465	184,755	184,848	187,172	187,353	191,461	189,742	205,246	207,106	203,166	202,541	197,399
Hours worked (millions)	387.6	400.0	429.2	378.2	383.4	384.1	401.2	396.7	404.4	397.2	423.8	433.6	419.5	410.3	397.0
Wages and salaries (\$ millions)	3,017.8	3,358.3	3,712.7	3,348.9	3,539.8	3,656.5	3,910.9	3,964.7	4,107.1	4,059.2	4,360.8	4,500.8	4,744.3	4,908.3	4,872.9
Average annual hours worked	1,809	1,813	1,805	1,759	1,749	1,734	1,782	1,793	1,793	1,778	1,788	1,787	1,775	1,751	1,713
Average annual wages and salaries (\$)	14,087	15,219	15,615	15,577	16,146	16,502	17,371	17,919	18,214	18,165	18,396	18,555	20,080	20,948	21,026
Average hourly wage (\$)	7.79	8.39	8.65	8.85	9.23	9.52	9.75	9.99	10.16	10.22	10.29	10.38	11.31	11.96	12.28
Full-time employee jobs															
Number of jobs	159,146	165,236	179,232	156,444	158,635	159,757	162,138	160,914	164,426	162,948	177,494	180,165	176,672	176,473	169,325
Hours worked (millions)	336.8	349.9	377.2	328.1	330.0	330.5	346.1	343.1	350.7	344.5	370.3	380.6	367.6	358.3	341.1
Wages and salaries (\$ millions)	2,697.6	3,021.2	3,355.5	2,988.0	3,134.8	3,237.2	3,472.3	3,529.7	3,672.7	3,636.8	3,943.5	4,097.3	4,320.6	4,453.4	4,350.6
Average annual hours worked	2,117	2,118	2,104	2,097	2,080	2,069	2,135	2,132	2,133	2,114	2,086	2,112	2,081	2,030	2,014
Average annual wages and salaries (\$)	16,950	18,284	18,721	19,100	19,761	20,264	21,416	21,936	22,337	22,319	22,218	22,742	24,456	25,236	25,694
Average hourly wage (\$)	8.01	8.63	8.90	9.11	9.50	9.79	10.03	10.29	10.47	10.56	10.65	10.77	11.75	12.43	12.75
Part-time employee jobs															
Number of jobs	55,078	55,437	58,523	58,551	60,594	61,818	62,995	60,352	61,060	60,511	59,555	62,401	59,591	57,834	62,434
Hours worked (millions)	50.7	50.1	52.0	50.1	53.3	53.6	55.0	53.5	53.7	52.8	53.6	53.0	51.8	52.0	55.9
Wages and salaries (\$ millions)	320.2	337.1	357.2	360.9	405.0	419.3	438.6	435.0	434.4	422.4	417.3	403.5	423.7	454.9	522.2
Average annual hours worked	921	904	889	856	880	867	874	887	880	872	899	849	870	899	895
Average annual wages and salaries (\$)	5,814	6,081	6,103	6,164	6,684	6,782	6,963	7,208	7,114	6,981	7,007	6,466	7,110	7,866	8,365
Average hourly wage (\$)	6.32	6.73	6.87	7.20	7.59	7.82	7.97	8.12	8.09	8.01	7.79	7.62	8.18	8.74	9.35
All self-employment jobs															
Number of jobs	10,359	10,671	11,497	10,397	10,601	10,715	10,887	10,700	10,904	10,806	11,348	9,974	9,768	9,962	9,438
Hours worked (millions)	21.9	22.5	24.2	21.8	21.3	20.9	22.2	20.4	20.1	19.9	21.6	19.6	19.1	19.9	18.8
Income from self-employment (\$ millions)	185.1	205.0	227.2	209.4	213.2	215.8	234.5	221.0	221.4	220.8	240.8	220.5	233.0	258.0	248.9
Average annual hours worked	2,113	2,108	2,105	2,096	2,007	1,949	2,036	1,904	1,842	1,842	1,904	1,970	1,954	1,996	1,989
Average annual income (\$)	17,865	19,209	19,765	20,143	20,114	20,142	21,544	20,652	20,306	20,429	21,223	22,108	23,849	25,895	26,372

Total industry estimates

Table A2b: Number of jobs, hours worked, and employment earnings, by class of worker, Canada, annual percentage changes, 1988-2002

Accommodation Services (NAICS 721) (excluding NAICS 7213)	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Total jobs															
Number of jobs	-	3.0	7.7	-9.6	2.0	1.1	1.6	-1.7	1.9	-0.9	6.0	1.7	-2.6	-0.7	-1.3
Hours worked (millions)	-	3.2	7.3	-11.8	1.2	0.1	4.5	-1.5	1.8	-1.7	6.8	1.8	-3.2	-1.9	-3.4
Income from employment (\$ millions)	-	11.3	10.6	-9.7	5.5	3.2	7.0	1.0	3.4	-1.1	7.3	2.5	5.2	4.3	-1.2
Of which:															
Labour income (\$ millions)	-	11.3	10.6	-9.8	5.7	3.3	7.0	1.4	3.6	-1.2	7.2	3.0	5.2	4.0	-1.1
All employee jobs															
Number of jobs	-	3.0	7.7	-9.6	2.0	1.1	1.6	-1.7	1.9	-0.9	6.1	2.3	-2.6	-0.8	-1.1
Number of full-time equivalent jobs	-	3.2	8.1	-11.3	1.8	0.1	1.3	0.1	2.2	-0.9	8.2	0.9	-1.9	-0.3	-2.5
Hours worked (millions)	-	3.2	7.3	-11.9	1.4	0.2	4.4	-1.1	1.9	-1.8	6.7	2.3	-3.3	-2.2	-3.3
Wages and salaries (\$ millions)	-	11.3	10.6	-9.8	5.7	3.3	7.0	1.4	3.6	-1.2	7.4	3.2	5.4	3.5	-0.7
Average annual hours worked	-	0.2	-0.4	-2.6	-0.6	-0.9	2.8	0.6	0.0	-0.9	0.6	0.0	-0.7	-1.4	-2.2
Average annual wages and salaries (\$)	-	8.0	2.6	-0.2	3.7	2.2	5.3	3.1	1.7	-0.3	1.3	0.9	8.2	4.3	0.4
Average hourly wage (\$)	-	7.8	3.0	2.4	4.3	3.1	2.4	2.5	1.6	0.6	0.7	0.9	9.0	5.8	2.6
Full-time employee jobs															
Number of jobs	-	3.8	8.5	-12.7	1.4	0.7	1.5	-0.8	2.2	-0.9	8.9	1.5	-1.9	-0.1	-4.1
Hours worked (millions)	-	3.9	7.8	-13.0	0.6	0.2	4.7	-0.9	2.2	-1.8	7.5	2.8	-3.4	-2.5	-4.8
Wages and salaries (\$ millions)	-	12.0	11.1	-11.0	4.9	3.3	7.3	1.7	4.1	-1.0	8.4	3.9	5.5	3.1	-2.3
Average annual hours worked	-	0.1	-0.6	-0.4	-0.8	-0.5	3.2	-0.1	0.0	-0.9	-1.3	1.3	-1.5	-2.4	-0.8
Average annual wages and salaries (\$)	-	7.9	2.4	2.0	3.5	2.5	5.7	2.4	1.8	-0.1	-0.5	2.4	7.5	3.2	1.8
Average hourly wage (\$)	-	7.8	3.0	2.4	4.3	3.1	2.4	2.5	1.8	0.8	0.9	1.1	9.2	5.8	2.6
Part-time employee jobs															
Number of jobs	-	0.7	5.6	0.0	3.5	2.0	1.9	-4.2	1.2	-0.9	-1.6	4.8	-4.5	-2.9	8.0
Hours worked (millions)	-	-1.2	3.8	-3.6	6.4	0.5	2.7	-2.7	0.3	-1.8	1.5	-1.1	-2.2	0.4	7.4
Wages and salaries (\$ millions)	-	5.3	6.0	1.0	12.2	3.5	4.6	-0.8	-0.1	-2.8	-1.2	-3.3	5.0	7.4	14.8
Average annual hours worked	-	-1.8	-1.7	-3.7	2.8	-1.5	0.8	1.5	-0.9	-0.9	3.1	-5.6	2.4	3.4	-0.5
Average annual wages and salaries (\$)	-	4.6	0.4	1.0	8.4	1.5	2.7	3.5	-1.3	-1.9	0.4	-7.7	9.9	10.6	6.3
Average hourly wage (\$)	-	6.5	2.1	4.8	5.5	3.0	1.9	2.0	-0.4	-1.0	-2.7	-2.3	7.4	7.0	6.9
All self-employment jobs															
Number of jobs	-	3.0	7.7	-9.6	2.0	1.1	1.6	-1.7	1.9	-0.9	5.0	-12.1	-2.1	2.0	-5.3
Hours worked (millions)	-	2.7	7.6	-10.0	-2.4	-1.8	6.1	-8.1	-1.4	-0.9	8.6	-9.1	-2.8	4.2	-5.6
Income from self-employment (\$ millions)	-	10.8	10.9	-7.8	1.8	1.2	8.7	-5.8	0.2	-0.3	9.1	-8.5	5.7	10.7	-3.5
Average annual hours worked	-	-0.3	-0.1	-0.4	-4.2	-2.9	4.4	-6.5	-3.2	0.0	3.4	3.4	-0.8	2.2	-0.4
Average annual income	-	7.5	2.9	1.9	-0.1	0.1	7.0	-4.1	-1.7	0.6	3.9	4.2	7.9	8.6	1.8

Total industry estimates

Table A2c: Number of employee, hours worked, and employment earnings, by occupations, Canada, 1988-2002

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Accommodation Services (NAICS 7213)															
All occupations in Accommodation Services															
Number of jobs	213,344	219,873	237,135	214,745	218,378	219,175	223,323	221,106	225,266	223,259	237,249	242,666	236,162	233,108	230,159
Number of full-time equivalent jobs	183,439	189,259	204,559	181,465	184,755	184,848	187,172	187,353	191,461	189,742	205,246	207,106	203,166	202,541	197,389
Hours worked (millions)	384.8	397.4	426.7	377.0	380.6	379.0	396.4	396.3	404.6	397.5	424.8	434.4	419.4	408.0	394.2
Wages and salaries (\$ millions)	2,994.8	3,332.1	3,686.7	3,337.7	3,511.4	3,610.2	3,866.9	3,964.3	4,107.9	4,060.7	4,367.3	4,512.1	4,744.4	4,880.8	4,839.4
Average annual hours worked	1,804	1,807	1,800	1,756	1,743	1,729	1,775	1,792	1,796	1,780	1,790	1,790	1,776	1,750	1,713
Average annual wages and salaries (\$)	14,038	15,155	15,547	15,543	16,079	16,472	17,315	17,930	18,236	18,188	18,408	18,594	20,089	20,938	21,026
Average hourly wage (\$)	7.78	8.38	8.64	8.85	9.23	9.52	9.76	10.00	10.15	10.22	10.28	10.39	11.31	11.96	12.28
Accommodation Service Managers (A222)															
Number of jobs	15,015	16,269	18,022	16,759	17,332	17,329	17,487	17,327	18,382	18,836	22,003	23,326	22,693	20,559	19,143
Number of full-time equivalent jobs	14,604	15,740	17,390	16,042	16,629	16,646	16,813	16,655	17,575	18,119	21,321	22,427	21,638	19,505	18,088
Hours worked (millions)	41.3	44.3	48.8	44.7	45.2	43.7	46.1	47.3	51.2	50.0	56.0	57.9	57.4	50.4	46.8
Wages and salaries (\$ millions)	393.9	455.1	516.2	488.0	517.2	518.8	564.5	595.0	649.0	638.0	718.8	747.8	804.4	754.5	722.8
Average annual hours worked	2,751	2,721	2,707	2,670	2,608	2,521	2,636	2,731	2,786	2,656	2,544	2,482	2,529	2,451	2,446
Average annual wages and salaries (\$)	26,231	27,976	28,640	29,116	29,843	29,941	32,281	34,338	35,307	33,871	32,668	32,059	35,447	36,699	37,757
Average hourly wage (\$)	9.54	10.28	10.58	10.90	11.44	11.88	12.24	12.57	12.67	12.76	12.84	12.92	14.01	14.97	15.44
Other Managers (A, excl. A222)															
Number of jobs	8,323	8,793	10,678	8,912	8,414	7,877	7,649	7,530	8,423	9,016	10,513	10,915	11,141	10,849	10,359
Number of full-time equivalent jobs	8,114	8,604	10,493	8,754	8,255	7,709	7,403	7,302	8,128	8,644	10,110	10,509	10,793	10,474	9,985
Hours worked (millions)	22.7	23.7	27.8	23.4	21.8	20.8	20.4	20.0	21.4	22.0	25.4	27.0	27.1	25.0	23.1
Wages and salaries (\$ millions)	264.0	297.0	359.8	311.9	305.8	307.0	311.0	315.8	344.5	358.3	417.9	447.3	485.8	480.3	468.1
Average annual hours worked	2,729	2,690	2,606	2,623	2,592	2,644	2,667	2,654	2,537	2,443	2,421	2,470	2,428	2,303	2,227
Average annual wages and salaries (\$)	31,720	33,773	33,694	34,994	36,347	38,974	40,656	41,940	40,898	39,740	39,753	40,978	43,608	44,267	44,218
Average hourly wage (\$)	11.62	12.56	12.93	13.34	14.03	14.74	15.24	15.80	16.12	16.27	16.42	16.59	17.96	19.22	19.85
Business, Finance and Administrative Occupations (B)															
Number of jobs	15,257	16,519	17,536	15,294	13,632	12,205	12,236	12,998	14,617	15,177	15,370	15,752	14,880	16,398	16,109
Number of full-time equivalent jobs	14,163	15,157	15,955	13,528	12,217	11,084	11,073	11,822	13,201	13,653	13,638	14,074	13,447	15,069	14,606
Hours worked (millions)	31.2	33.2	34.5	29.2	26.1	23.5	24.3	26.1	29.1	29.4	28.9	29.9	28.6	31.2	30.0
Wages and salaries (\$ millions)	275.6	313.8	331.5	298.2	284.7	273.6	299.7	334.3	369.7	366.5	352.4	364.1	373.0	428.1	421.8
Average annual hours worked	2,044	2,013	1,965	1,910	1,914	1,928	1,989	2,004	1,994	1,934	1,880	1,899	1,922	1,900	1,859
Average annual wages and salaries (\$)	18,065	18,999	18,906	19,496	20,883	22,420	24,490	25,720	25,291	24,152	22,928	23,118	25,070	26,108	26,185
Average hourly wage (\$)	8.84	9.44	9.62	10.21	10.91	11.63	12.31	12.83	12.69	12.49	12.19	12.17	13.04	13.74	14.08
Sales and Service Supervisors (G01)															
Number of jobs	6,053	6,506	6,920	5,612	5,349	5,262	5,691	6,032	6,414	6,305	6,727	7,547	7,854	8,335	8,698
Number of full-time equivalent jobs	5,754	6,204	6,655	5,275	5,006	4,907	5,316	5,688	6,050	5,956	6,385	7,136	7,522	8,062	8,462
Hours worked (millions)	12.8	14.0	15.0	12.1	11.5	11.5	12.5	13.2	14.0	14.1	15.0	16.7	16.8	18.0	18.8
Wages and salaries (\$ millions)	110.0	130.0	143.3	117.4	118.0	123.1	136.5	149.8	157.9	157.7	165.4	184.1	195.2	222.3	238.4
Average annual hours worked	2,120	2,150	2,174	2,149	2,149	2,188	2,190	2,194	2,183	2,238	2,216	2,216	2,134	2,160	2,161
Average annual wages and salaries (\$)	18,178	19,984	20,711	20,919	22,061	23,389	23,984	24,831	24,617	25,015	24,593	24,393	24,856	26,673	27,408
Average hourly wage (\$)	8.57	9.29	9.53	9.73	10.27	10.69	10.95	11.32	11.28	11.18	11.03	11.01	11.65	12.35	12.68
Chefs and Cooks (G41)															
Number of jobs	16,847	16,809	16,957	15,825	16,635	17,577	16,731	16,278	15,798	15,177	16,643	16,808	16,888	16,132	15,887
Number of full-time equivalent jobs	15,682	15,590	15,684	14,437	15,229	15,951	15,189	14,680	14,315	13,839	15,422	15,370	15,595	15,012	14,809
Hours worked (millions)	34.2	34.4	34.9	31.9	33.4	34.6	33.8	32.7	31.9	30.5	33.4	33.9	34.0	32.2	31.7
Wages and salaries (\$ millions)	284.3	306.2	319.5	299.5	327.2	347.7	346.1	341.1	333.8	319.4	349.7	354.3	384.6	385.5	389.8

Total industry estimates

Table A2c: Number of employee, hours worked, and employment earnings, by occupations, Canada, 1988-2002

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Accommodation Services (NAICS 721)															
<i>(excluding NA/CS 721.3)</i>															
Average annual hours worked	2,032	2,044	2,057	2,017	2,005	1,967	2,017	2,009	2,020	2,009	2,009	2,014	2,016	1,996	1,997
Average annual wages and salaries (\$)	16,877	18,217	18,841	18,927	19,667	19,784	20,687	20,957	21,129	21,044	21,015	21,078	22,773	23,895	24,537
Average hourly wage (\$)	8.30	8.91	9.16	9.38	9.81	10.06	10.25	10.43	10.46	10.47	10.46	10.46	11.30	11.97	12.28
Occupations in Food and Beverage Service (G51)															
Number of jobs	40,913	41,173	43,715	39,436	41,136	40,585	41,416	37,861	35,563	32,194	33,021	33,614	31,427	30,351	29,486
Number of full-time equivalent jobs	33,253	33,362	35,097	30,514	32,007	31,716	32,284	29,859	28,280	25,684	27,089	26,731	25,300	24,656	23,610
Hours worked (millions)	66.3	65.7	67.9	58.3	61.3	61.0	64.3	59.3	55.5	50.1	52.3	52.1	48.0	45.4	43.1
Wages and salaries (\$ millions)	480.1	510.1	541.8	472.6	516.6	528.8	566.7	529.5	503.4	462.6	490.6	496.8	505.6	507.7	498.3
Average annual hours worked	1,620	1,595	1,553	1,479	1,489	1,503	1,554	1,567	1,559	1,557	1,585	1,550	1,527	1,497	1,462
Average annual wages and salaries (\$)	11,735	12,389	12,394	11,985	12,559	13,029	13,684	13,987	14,156	14,370	14,858	14,781	16,087	16,729	16,900
Average hourly wage (\$)	7.24	7.77	7.98	8.10	8.43	8.67	8.81	8.93	9.08	9.23	9.38	9.54	10.54	11.18	11.56
Hotel Front Desk Clerks (G715)															
Number of jobs	13,921	14,650	16,859	16,635	17,811	18,249	20,382	21,241	21,817	20,645	22,001	22,836	23,672	25,538	26,354
Number of full-time equivalent jobs	12,248	12,869	14,863	14,157	15,272	15,753	17,588	18,690	19,147	18,004	19,482	20,074	20,657	22,446	22,675
Hours worked (millions)	25.1	26.1	29.8	28.6	30.8	31.7	36.4	38.0	39.0	36.6	39.5	40.8	41.2	44.6	45.2
Wages and salaries (\$ millions)	174.9	195.4	229.3	229.8	261.7	283.5	338.8	365.7	373.8	349.2	370.8	383.9	416.7	478.6	489.0
Average annual hours worked	1,805	1,783	1,766	1,720	1,727	1,736	1,784	1,791	1,787	1,774	1,794	1,787	1,739	1,747	1,716
Average annual wages and salaries (\$)	12,564	13,340	13,600	13,812	14,696	15,534	16,622	17,218	17,135	16,914	16,854	16,810	17,605	18,742	18,933
Average hourly wage (\$)	6.96	7.48	7.70	8.03	8.51	8.95	9.32	9.61	9.59	9.54	9.40	9.41	10.12	10.73	11.03
Cleaners (G93)															
Number of jobs	48,993	49,190	52,844	48,513	50,938	52,325	52,798	52,765	56,481	57,600	61,282	61,200	58,742	57,617	56,674
Number of full-time equivalent jobs	39,881	40,477	43,577	39,553	41,656	42,542	42,287	42,499	45,608	46,147	50,190	49,394	48,039	48,094	46,382
Hours worked (millions)	75.3	76.1	82.4	73.5	77.3	78.6	81.3	81.1	85.8	86.5	92.9	93.9	89.1	88.2	84.4
Wages and salaries (\$ millions)	496.2	540.0	601.7	553.8	613.4	649.6	694.2	712.9	756.6	763.4	818.1	832.4	853.0	900.2	886.8
Average annual hours worked	1,536	1,548	1,560	1,516	1,518	1,501	1,540	1,536	1,519	1,501	1,516	1,534	1,517	1,531	1,490
Average annual wages and salaries (\$)	10,128	10,977	11,386	11,416	12,042	12,414	13,147	13,512	13,395	13,248	13,349	13,601	14,521	15,624	15,648
Average hourly wage (\$)	6.59	7.09	7.30	7.53	7.93	8.27	8.54	8.79	8.82	8.83	8.81	8.87	9.57	10.20	10.50
Food Counter Attendants and Kitchen Helpers (G96)															
Number of jobs	10,438	11,235	12,799	11,424	11,921	11,484	11,812	10,294	9,584	9,088	9,571	10,153	9,850	10,299	10,545
Number of full-time equivalent jobs	7,693	8,204	9,567	8,170	8,559	8,071	8,272	7,394	6,676	6,374	7,015	7,353	7,216	7,542	7,468
Hours worked (millions)	14.9	16.1	17.9	15.2	15.4	14.9	15.6	14.0	12.5	11.7	12.4	13.8	13.4	14.0	13.4
Wages and salaries (\$ millions)	92.0	106.7	121.9	103.4	108.0	106.8	113.0	102.0	91.1	86.1	91.3	102.8	108.8	120.2	118.7
Average annual hours worked	1,426	1,429	1,397	1,330	1,289	1,294	1,323	1,363	1,302	1,291	1,295	1,355	1,364	1,357	1,272
Average annual wages and salaries (\$)	8,812	9,494	9,523	9,052	9,057	9,298	9,564	9,913	9,508	9,479	9,537	10,124	11,050	11,667	11,255
Average hourly wage (\$)	6.18	6.65	6.81	6.81	7.03	7.19	7.23	7.27	7.30	7.34	7.36	7.47	8.10	8.60	8.85
All other occupations in Accommodation Services															
Number of jobs	37,585	38,728	40,805	36,336	35,211	36,282	37,121	38,781	38,186	39,221	40,117	40,515	39,017	37,029	36,902
Number of full-time equivalent jobs	32,047	33,051	35,278	31,036	29,925	30,470	30,947	32,763	32,483	33,322	34,592	34,038	32,958	31,681	31,315
Hours worked (millions)	61.0	63.9	67.8	60.0	58.0	58.8	61.7	64.5	64.2	66.5	69.0	68.6	63.8	59.0	57.6
Wages and salaries (\$ millions)	423.8	477.8	521.7	463.2	458.7	471.3	496.5	518.1	528.1	559.7	592.2	598.6	617.2	603.4	605.7
Average annual hours worked	1,622	1,649	1,661	1,652	1,646	1,620	1,662	1,663	1,682	1,696	1,719	1,692	1,682	1,594	1,561
Average annual wages and salaries (\$)	11,277	12,336	12,786	12,747	13,027	12,990	13,374	13,360	13,829	14,270	14,762	14,775	15,818	16,295	16,413
Average hourly wage (\$)	6.95	7.48	7.70	7.72	7.91	8.02	8.05	8.03	8.22	8.41	8.59	8.73	9.67	10.22	10.52

Total industry estimates

Table A2d: Number of employee, hours worked, and employment earnings, by occupations, Canada, annual percentage changes, 1988-2002

Accommodation Services (NAICS 721) (excluding NAICS 7213)	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
All occupations in Accommodation Services															
Number of jobs	-	3.1	7.9	-9.4	1.7	0.4	1.9	-1.0	1.9	-0.9	6.3	2.3	-2.7	-1.3	-1.3
Number of full-time equivalent jobs	-	3.2	8.1	-11.3	1.8	0.1	1.3	0.1	2.2	-0.9	8.2	0.9	-1.9	-0.3	-2.5
Hours worked (millions)	-	3.3	7.4	-11.7	1.0	-0.4	4.6	0.0	2.1	-1.8	6.9	2.3	-3.5	-2.7	-3.4
Wages and salaries (\$ millions)	-	11.3	10.6	-9.5	5.2	2.8	7.1	2.5	3.6	-1.1	7.6	3.3	5.1	2.9	-0.8
Average annual hours worked	-	0.2	-0.4	-2.4	-0.7	-0.8	2.6	1.0	0.2	-0.9	0.6	0.0	-0.8	-1.4	-2.2
Average annual wages and salaries (\$)	-	8.0	2.6	0.0	3.5	2.4	5.1	3.5	1.7	-0.3	1.2	1.0	8.0	4.2	0.4
Average hourly wage (\$)	-	7.7	3.0	2.5	4.2	3.2	2.4	2.5	1.5	0.6	0.6	1.0	8.9	5.7	2.6
Accommodation Service Managers (A222)															
Number of jobs	-	8.3	10.8	-7.0	3.4	0.0	0.9	-0.9	6.1	2.5	16.8	6.0	-2.7	-9.4	-6.9
Number of full-time equivalent jobs	-	7.8	10.5	-7.7	3.7	0.1	1.0	-0.9	5.5	3.1	17.7	5.2	-3.5	-9.9	-7.3
Hours worked (millions)	-	7.2	10.2	-8.3	1.0	-3.4	5.6	2.6	8.2	-2.3	11.9	3.4	-0.9	-12.2	-7.1
Wages and salaries (\$ millions)	-	15.6	13.4	-5.5	6.0	0.3	8.8	5.4	9.1	-1.7	12.7	4.0	7.6	-6.2	-4.2
Average annual hours worked	-	-1.1	-0.5	-1.4	-2.3	-3.3	4.6	3.6	2.0	-4.7	-4.2	-2.5	1.9	-3.1	-0.2
Average annual wages and salaries (\$)	-	6.7	2.4	1.7	2.5	0.3	7.8	6.4	2.8	-4.1	-3.6	-1.9	10.6	3.5	2.9
Average hourly wage (\$)	-	7.8	2.9	3.1	5.0	3.8	3.1	2.7	0.8	0.6	0.7	0.6	8.5	6.8	3.1
Other Managers (A, excl. A222)															
Number of jobs	-	5.7	21.4	-16.5	-5.6	-6.4	-2.9	-1.6	11.9	7.0	16.6	3.8	2.1	-2.6	-4.5
Number of full-time equivalent jobs	-	6.0	21.9	-16.6	-5.7	-6.6	-4.0	-1.4	11.3	6.4	17.0	3.9	2.7	-3.0	-4.7
Hours worked (millions)	-	4.1	17.7	-16.0	-6.7	-4.5	-2.1	-2.0	6.9	3.0	15.6	5.9	0.3	-7.6	-7.7
Wages and salaries (\$ millions)	-	12.5	21.2	-13.3	-1.9	0.4	1.3	1.5	9.1	4.0	16.6	7.0	8.6	-1.1	-4.6
Average annual hours worked	-	-1.4	-3.1	0.6	-1.2	2.0	0.9	-0.5	-4.4	-3.7	-0.9	2.0	-1.7	-5.2	-3.3
Average annual wages and salaries (\$)	-	6.5	-0.2	3.9	3.9	7.2	4.3	3.2	-2.5	-2.8	0.0	3.1	6.4	1.5	-0.1
Average hourly wage (\$)	-	8.0	3.0	3.2	5.1	5.1	3.4	3.7	2.0	0.9	0.9	1.0	8.2	7.0	3.3
Business, Finance and Administrative Occupations (B)															
Number of jobs	-	8.3	6.2	-12.8	-10.9	-10.5	0.2	6.2	12.5	3.8	1.3	2.5	-5.5	10.2	-1.8
Number of full-time equivalent jobs	-	7.0	5.3	-15.2	-9.7	-9.3	-0.1	6.8	11.7	3.4	-0.1	3.2	-4.5	12.1	-3.1
Hours worked (millions)	-	6.6	3.6	-15.2	-10.7	-9.8	3.4	7.0	11.9	0.8	-1.6	3.5	-4.4	8.9	-3.9
Wages and salaries (\$ millions)	-	13.9	5.6	-10.1	-4.5	-3.9	9.5	11.6	10.6	-0.8	-3.9	3.3	2.4	14.8	-1.5
Average annual hours worked	-	-1.5	-2.4	-2.8	0.2	0.8	3.2	0.8	-0.5	-3.0	-2.8	1.0	1.2	-1.1	-2.2
Average annual wages and salaries (\$)	-	5.2	-0.5	3.1	7.1	7.4	9.2	5.0	-1.7	-4.5	-5.1	0.8	8.4	4.1	0.3
Average hourly wage (\$)	-	6.8	1.9	6.1	6.9	6.5	5.9	4.2	-1.1	-1.6	-2.3	-0.2	7.1	5.3	2.5
Sales and Service Supervisors (G01)															
Number of jobs	-	7.5	6.4	-18.9	-4.7	-1.6	8.2	6.0	6.3	-1.7	6.7	12.2	4.1	6.1	4.4
Number of full-time equivalent jobs	-	7.8	7.3	-20.7	-5.1	-2.0	8.4	7.0	6.3	-1.5	7.2	11.8	5.4	7.2	5.0
Hours worked (millions)	-	9.0	7.5	-19.8	-4.7	0.2	8.3	6.2	5.8	0.8	6.3	11.5	0.2	7.4	4.4
Wages and salaries (\$ millions)	-	18.2	10.2	-18.1	0.5	4.3	10.9	9.7	5.4	-0.1	4.9	11.3	6.0	13.9	7.2
Average annual hours worked	-	1.4	1.1	-1.1	0.0	1.8	0.1	0.2	-0.5	2.5	-0.3	-0.6	-3.7	1.2	0.1
Average annual wages and salaries (\$)	-	9.9	3.6	1.0	5.5	6.0	2.5	3.5	-0.9	1.6	-1.7	-0.8	1.9	7.3	2.8

Total industry estimates

Table A2d: Number of employee, hours worked, and employment earnings, by occupations, Canada, annual percentage changes, 1988-2002

Accommodation Services (NAICS 721) <i>(excluding NAICS 7213)</i>	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Average hourly wage (\$)	-	8.4	2.5	2.2	5.5	4.1	2.5	3.4	-0.4	-0.9	-1.3	-0.2	5.8	6.0	2.7
Chefs and Cooks (G41)															
Number of jobs	-	-0.2	0.9	-6.7	5.1	5.7	-4.8	-2.7	-2.9	-3.9	9.7	1.0	0.5	-4.5	-1.5
Number of full-time equivalent jobs	-	-0.6	0.6	-8.0	5.5	4.7	-4.8	-3.3	-2.5	-3.3	11.4	-0.3	1.5	-3.7	-1.4
Hours worked (millions)	-	0.3	1.5	-8.5	4.5	3.7	-2.4	-3.1	-2.4	-4.4	9.6	1.3	0.5	-5.4	-1.4
Wages and salaries (\$ millions)	-	7.7	4.3	-6.2	9.2	6.3	-0.5	-1.4	-2.2	-4.3	9.5	1.3	8.6	0.2	1.1
Average annual hours worked	-	0.6	0.7	-1.9	-0.6	-1.9	2.5	-0.4	0.5	-0.5	0.0	0.3	0.1	-1.0	0.1
Average annual wages and salaries (\$)	-	7.9	3.4	0.5	3.9	0.6	4.6	1.3	0.8	-0.4	-0.1	0.3	8.0	4.9	2.7
Average hourly wage (\$)	-	7.3	2.8	2.4	4.5	2.5	2.0	1.7	0.3	0.1	-0.1	0.0	8.0	6.0	2.6
Occupations in Food and Beverage Service (G51)															
Number of jobs	-	0.6	6.2	-9.8	4.3	-1.3	2.0	-8.6	-6.1	-9.5	2.6	1.8	-6.5	-3.4	-2.8
Number of full-time equivalent jobs	-	0.3	5.2	-13.1	4.9	-0.9	1.8	-7.5	-5.3	-9.2	5.5	-1.3	-5.3	-2.5	-4.2
Hours worked (millions)	-	-0.9	3.3	-14.1	5.1	-0.4	5.5	-7.8	-6.5	-9.6	4.4	-0.5	-7.9	-5.3	-5.1
Wages and salaries (\$ millions)	-	6.2	6.2	-12.8	9.3	2.4	7.2	-6.6	-4.9	-8.1	6.1	1.3	1.8	0.4	-1.9
Average annual hours worked	-	-1.5	-2.7	-4.7	0.7	0.9	3.4	0.9	-0.5	-0.2	1.8	-2.2	-1.5	-2.0	-2.3
Average annual wages and salaries (\$)	-	5.6	0.0	-3.3	4.8	3.7	5.0	2.2	1.2	1.5	3.4	-0.5	8.8	4.0	1.0
Average hourly wage (\$)	-	7.2	2.8	1.5	4.1	2.8	1.6	1.3	1.7	1.7	1.6	1.7	10.5	6.1	3.4
Hotel Front Desk Clerks (G715)															
Number of jobs	-	5.2	15.1	-1.3	7.1	2.5	11.7	4.2	2.7	-5.4	6.6	3.8	3.7	7.9	3.2
Number of full-time equivalent jobs	-	5.1	15.5	-4.8	7.9	3.1	11.7	6.3	2.4	-6.0	8.2	3.0	2.9	8.7	1.0
Hours worked (millions)	-	3.9	14.0	-3.9	7.5	3.0	14.7	4.6	2.5	-6.1	7.8	3.4	0.9	8.4	1.4
Wages and salaries (\$ millions)	-	11.7	17.3	0.2	13.9	8.3	19.5	8.0	2.2	-6.6	6.2	3.5	8.6	14.9	4.2
Average annual hours worked	-	-1.2	-1.0	-2.6	0.4	0.5	2.7	0.4	-0.2	-0.8	1.1	-0.4	-2.7	0.5	-1.8
Average annual wages and salaries (\$)	-	6.2	2.0	1.6	6.4	5.7	7.0	3.6	-0.5	-1.3	-0.4	-0.3	4.7	6.5	1.0
Average hourly wage (\$)	-	7.5	2.9	4.3	6.0	5.1	4.2	3.2	-0.3	-0.5	-1.5	0.1	7.6	5.9	2.9
Cleaners (G93)															
Number of jobs	-	0.4	7.4	-8.2	5.0	2.7	0.9	-0.1	7.0	2.0	6.4	-0.1	-4.0	-1.9	-1.6
Number of full-time equivalent jobs	-	1.5	7.7	-9.2	5.3	2.1	-0.6	0.5	7.3	1.2	8.8	-1.6	-2.7	0.1	-3.6
Hours worked (millions)	-	1.2	8.3	-10.8	5.1	1.6	3.5	-0.3	5.8	0.8	7.4	1.1	-5.1	-1.0	-4.3
Wages and salaries (\$ millions)	-	8.8	11.4	-8.0	10.8	5.9	6.9	2.7	6.1	0.9	7.2	1.7	2.5	5.5	-1.5
Average annual hours worked	-	0.8	0.8	-2.8	0.1	-1.1	2.5	-0.2	-1.1	-1.2	1.0	1.2	-1.1	1.0	-2.7
Average annual wages and salaries (\$)	-	8.4	3.7	0.3	5.5	3.1	5.9	2.8	-0.9	-1.1	0.8	1.9	6.8	7.6	0.2
Average hourly wage (\$)	-	7.6	2.9	3.2	5.4	4.2	3.3	3.0	0.3	0.1	-0.2	0.7	8.0	6.6	2.9
Food Counter Attendants and Kitchen Helpers (G96)															
Number of jobs	-	7.6	13.9	-10.7	4.3	-3.7	2.9	-12.9	-6.9	-5.2	5.3	6.1	-3.0	4.6	2.4
Number of full-time equivalent jobs	-	6.6	16.6	-14.6	4.8	-5.7	2.5	-10.6	-9.7	-4.5	10.1	4.8	-1.9	4.5	-1.0
Hours worked (millions)	-	7.8	11.4	-15.1	1.2	-3.3	5.2	-10.2	-11.1	-6.0	5.7	10.9	-2.3	4.0	-4.0

Total industry estimates

Table A2d: Number of employee, hours worked, and employment earnings, by occupations, Canada, annual percentage changes, 1988-2002

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Accommodation Services (NAICS 721)															
<i>(excluding NAICS 7213)</i>															
Wages and salaries (\$ millions)	-	16.0	14.3	-15.2	4.4	-1.1	5.8	-9.7	-10.7	-5.5	6.0	12.6	5.9	10.4	-1.2
Average annual hours worked	-	0.2	-2.2	-4.9	-3.1	0.4	2.3	3.0	-4.5	-0.8	0.4	4.6	0.7	-0.5	-6.2
Average annual wages and salaries (\$)	-	7.7	0.3	-4.9	0.1	2.7	2.9	3.6	-4.1	-0.3	0.6	6.2	9.1	5.6	-3.5
Average hourly wage (\$)	-	7.6	2.6	-0.1	3.2	2.3	0.6	0.6	0.4	0.5	0.2	1.5	8.4	6.1	2.9
All other occupations in Accommodation Services															
Number of jobs	-	3.0	5.4	-11.0	-3.1	3.0	2.3	4.5	-1.5	2.7	2.3	1.0	-3.7	-5.1	-0.3
Number of full-time equivalent jobs	-	3.1	6.7	-12.0	-3.6	1.8	1.6	5.9	-0.9	2.6	3.8	-1.6	-3.2	-3.9	-1.2
Hours worked (millions)	-	4.8	6.1	-11.4	-3.4	1.4	5.0	4.6	-0.4	3.6	3.6	-0.6	-6.9	-7.5	-2.4
Wages and salaries (\$ millions)	-	12.7	9.2	-11.2	-1.0	2.8	5.3	4.4	1.9	6.0	5.8	1.1	3.1	-2.2	0.4
Average annual hours worked	-	1.7	0.7	-0.6	-0.3	-1.6	2.6	0.1	1.1	0.8	1.3	-1.5	-3.3	-2.6	-2.1
Average annual wages and salaries (\$)	-	9.4	3.6	-0.3	2.2	-0.3	3.0	-0.1	3.5	3.2	3.4	0.1	7.1	3.0	0.7
Average hourly wage (\$)	-	7.6	2.9	0.3	2.5	1.3	0.4	-0.2	2.4	2.3	2.1	1.7	10.7	5.7	2.9

Total industry estimates

Table A2e: Number of full-time employee, hours worked, and employment earnings, by occupations, Canada, 1988-2002

Accommodation Services (NAICS 721) <i>(excluding NAICS 7213)</i>	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
All occupations in Accommodation Services															
Number of jobs	157,646	163,736	177,732	155,644	157,135	157,257	159,838	160,414	164,726	163,348	178,094	180,865	176,672	175,573	168,325
Hours worked (millions)	333.5	346.6	373.9	326.4	326.8	325.3	341.3	342.3	351.4	345.3	371.7	382.1	367.6	356.3	338.9
Wages and salaries (\$ millions)	2,670.6	2,990.2	3,323.5	2,973.0	3,102.8	3,190.2	3,428.3	3,526.7	3,680.7	3,645.8	3,959.0	4,114.8	4,320.6	4,428.4	4,322.6
Average annual hours worked	2,116	2,117	2,104	2,097	2,080	2,069	2,135	2,134	2,133	2,114	2,087	2,113	2,081	2,029	2,013
Average annual wages and salaries (\$)	16,940	18,263	18,699	19,102	19,746	20,287	21,449	21,985	22,344	22,319	22,230	22,751	24,456	25,223	25,680
Average hourly wage (\$)	8.01	8.63	8.89	9.11	9.49	9.81	10.04	10.30	10.48	10.56	10.65	10.77	11.75	12.43	12.75
Accommodation Service Managers (A222)															
Number of jobs	14,168	15,232	16,848	15,414	15,999	16,044	16,250	16,137	17,044	17,688	20,783	21,786	20,926	18,768	17,334
Hours worked (millions)	40.1	42.8	47.3	43.0	43.5	42.1	44.6	45.8	49.7	48.8	54.6	56.2	55.5	48.5	44.9
Wages and salaries (\$ millions)	377.8	435.7	495.0	463.0	492.7	496.9	543.7	576.1	629.2	622.6	700.9	726.7	777.7	725.9	691.4
Average annual hours worked	2,828	2,812	2,805	2,789	2,718	2,624	2,742	2,841	2,914	2,761	2,626	2,582	2,653	2,584	2,589
Average annual wages and salaries (\$)	26,668	28,605	29,381	30,034	30,796	30,970	33,458	35,698	36,914	35,200	33,723	33,356	37,165	38,678	39,884
Average hourly wage (\$)	9.43	10.17	10.47	10.77	11.33	11.80	12.20	12.56	12.67	12.75	12.84	12.92	14.01	14.97	15.41
Other Managers (A, excl. A222)															
Number of jobs	7,879	8,418	10,282	8,595	8,085	7,576	7,214	7,112	7,877	8,374	9,780	10,170	10,505	10,077	9,505
Hours worked (millions)	22.1	23.1	27.3	23.0	21.4	20.5	19.9	19.5	20.7	21.3	24.6	26.1	26.3	24.0	22.0
Wages and salaries (\$ millions)	260.1	293.8	356.2	308.9	302.2	303.8	305.6	309.6	335.2	347.6	404.0	431.9	472.1	460.8	433.7
Average annual hours worked	2,799	2,749	2,652	2,670	2,642	2,702	2,756	2,737	2,629	2,548	2,517	2,565	2,507	2,386	2,311
Average annual wages and salaries (\$)	33,016	34,904	34,644	35,937	37,385	40,093	42,369	43,539	42,561	41,502	41,311	42,468	44,939	45,726	45,632
Average hourly wage (\$)	11.79	12.70	13.06	13.46	14.15	14.84	15.38	15.91	16.19	16.29	16.41	16.55	17.93	19.16	19.75
Business, Finance and Administrative Occupations (B)															
Number of jobs	13,036	13,887	14,485	12,160	11,001	10,132	10,155	10,893	12,044	12,231	11,990	12,716	12,258	13,789	13,124
Hours worked (millions)	28.7	30.5	31.3	26.3	23.5	21.5	22.3	24.0	26.6	26.3	25.4	27.0	26.1	28.5	26.9
Wages and salaries (\$ millions)	257.0	291.6	306.2	272.5	259.5	252.1	276.5	311.1	341.4	334.5	319.2	338.0	350.5	403.9	392.1
Average annual hours worked	2,202	2,193	2,159	2,159	2,135	2,124	2,198	2,204	2,207	2,150	2,119	2,125	2,127	2,068	2,051
Average annual wages and salaries (\$)	19,718	20,995	21,142	22,406	23,586	24,881	27,233	28,562	28,348	27,351	26,620	26,583	28,598	29,289	29,879
Average hourly wage (\$)	8.95	9.57	9.79	10.38	11.05	11.72	12.39	12.96	12.84	12.72	12.56	12.51	13.45	14.16	14.57
Sales and Service Supervisors (G01)															
Number of jobs	5,378	5,880	6,341	4,986	4,692	4,602	4,963	5,381	5,745	5,716	6,113	6,835	7,222	7,821	8,264
Hours worked (millions)	12.0	13.3	14.3	11.4	10.8	10.8	11.6	12.5	13.3	13.5	14.4	16.0	16.1	17.5	18.4
Wages and salaries (\$ millions)	104.7	124.8	138.2	112.4	112.2	117.2	129.5	143.6	151.9	152.8	160.1	178.2	189.1	217.2	233.9
Average annual hours worked	2,231	2,255	2,261	2,287	2,296	2,147	2,347	2,326	2,314	2,368	2,349	2,343	2,228	2,233	2,221
Average annual wages and salaries (\$)	19,466	21,225	21,791	22,538	23,915	25,461	26,094	26,682	26,431	26,738	26,190	26,071	26,182	27,770	28,299
Average hourly wage (\$)	8.73	9.41	9.64	9.86	10.42	10.85	11.13	11.47	11.42	11.29	11.15	11.13	11.75	12.44	12.74
Chefs and Cooks (G41)															
Number of jobs	14,662	14,540	14,668	13,366	14,144	14,695	14,041	13,536	13,165	12,786	14,338	14,360	14,493	13,851	13,534
Hours worked (millions)	32.0	32.0	32.6	29.6	31.0	31.9	31.2	30.2	29.3	28.2	31.1	31.6	31.6	29.7	29.0
Wages and salaries (\$ millions)	269.8	290.3	303.7	282.0	308.2	325.0	324.0	318.2	311.8	300.2	331.5	338.0	366.1	365.1	365.9

Total industry estimates

Table A2e: Number of full-time employee, hours worked, and employment earnings, by occupations, Canada, 1988-2002

Accommodation Services (NAICS 721) <i>(excluding NAICS 7213)</i>	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Average annual hours worked	2,183	2,204	2,224	2,211	2,190	2,168	2,222	2,228	2,229	2,204	2,168	2,203	2,183	2,145	2,143
Average annual wages and salaries (\$)	18,404	19,964	20,706	21,099	21,793	22,118	23,078	23,507	23,686	23,476	23,123	23,537	25,263	26,356	27,037
Average hourly wage (\$)	8.43	9.06	9.31	9.54	9.95	10.20	10.39	10.55	10.63	10.65	10.67	10.69	11.57	12.29	12.62
Occupations in Food and Beverage Service (G51)															
Number of jobs	26,776	26,890	28,103	23,644	24,347	24,280	24,812	22,820	21,907	19,799	21,437	21,093	20,130	19,250	18,033
Hours worked (millions)	53.4	52.9	54.3	45.2	46.6	46.7	49.5	45.3	43.0	38.6	41.4	41.1	38.2	35.5	32.9
Wages and salaries (\$ millions)	394.2	420.4	444.4	375.6	402.5	414.1	446.1	414.5	401.8	369.0	403.7	409.8	419.8	415.2	396.8
Average annual hours worked	1,993	1,969	1,934	1,911	1,914	1,924	1,993	1,987	1,961	1,951	1,932	1,949	1,896	1,842	1,826
Average annual wages and salaries (\$)	14,722	15,632	15,814	15,884	16,531	17,053	17,979	18,162	18,341	18,640	18,833	19,429	20,855	21,570	22,002
Average hourly wage (\$)	7.39	7.94	8.18	8.31	8.64	8.87	9.02	9.14	9.35	9.55	9.75	9.97	11.00	11.71	12.05
Hotel Front Desk Clerks (G715)															
Number of jobs	10,156	10,822	12,756	11,995	12,766	13,294	14,937	16,022	16,487	15,378	16,704	17,193	17,571	19,129	19,121
Hours worked (millions)	20.8	22.0	25.5	24.2	25.7	26.7	30.9	32.6	33.6	31.3	33.8	35.0	35.0	38.0	38.1
Wages and salaries (\$ millions)	150.4	170.5	203.3	200.8	225.2	245.6	295.0	320.6	330.0	306.7	329.8	340.2	366.8	422.4	434.7
Average annual hours worked	2,052	2,030	2,003	2,021	2,014	2,011	2,067	2,036	2,036	2,034	2,025	2,033	1,993	1,988	1,995
Average annual wages and salaries (\$)	14,809	15,757	15,936	16,739	17,642	18,472	19,749	20,011	20,018	19,944	19,746	19,785	20,874	22,084	22,734
Average hourly wage (\$)	7.22	7.76	7.96	8.28	8.76	9.18	9.55	9.83	9.83	9.81	9.75	9.73	10.47	11.11	11.40
Cleaners (G93)															
Number of jobs	32,359	33,388	36,189	32,589	34,051	34,693	34,589	34,557	37,070	37,357	40,971	41,134	39,642	40,332	37,994
Hours worked (millions)	61.1	62.8	68.5	60.6	63.2	64.1	66.5	65.9	69.7	70.0	75.8	78.2	73.5	74.0	69.1
Wages and salaries (\$ millions)	416.1	460.6	516.5	471.0	516.7	545.1	584.3	596.4	636.3	641.3	696.9	724.2	736.8	787.1	756.3
Average annual hours worked	1,887	1,881	1,892	1,859	1,856	1,847	1,922	1,908	1,881	1,873	1,851	1,900	1,855	1,834	1,821
Average annual wages and salaries (\$)	12,860	13,794	14,272	14,452	15,174	15,711	16,892	17,258	17,164	17,165	17,008	17,606	18,587	19,516	19,938
Average hourly wage (\$)	6.81	7.33	7.54	7.77	8.18	8.51	8.79	9.05	9.12	9.16	9.19	9.26	10.02	10.64	10.95
Food Counter Attendants and Kitchen Helpers (G96)															
Number of jobs	5,928	6,354	7,418	6,131	6,253	5,908	6,087	5,393	4,800	4,555	5,118	5,563	5,463	5,594	5,187
Hours worked (millions)	11.5	12.4	13.9	11.4	11.2	10.9	11.5	10.2	9.0	8.4	9.0	10.4	10.2	10.4	9.3
Wages and salaries (\$ millions)	74.0	86.5	99.0	81.6	83.1	82.4	87.8	78.7	69.7	65.6	71.2	82.9	87.5	94.6	87.7
Average annual hours worked	1,935	1,957	1,869	1,859	1,795	1,840	1,889	1,897	1,869	1,841	1,767	1,871	1,861	1,852	1,796
Average annual wages and salaries (\$)	12,483	13,608	13,349	13,313	13,290	13,945	14,419	14,598	14,531	14,400	13,903	14,898	16,012	16,915	16,915
Average hourly wage (\$)	6.45	6.96	7.14	7.16	7.40	7.58	7.63	7.69	7.77	7.82	7.87	7.96	8.60	9.13	9.42
All other occupations in Accommodation Services															
Number of jobs	27,304	28,325	30,642	26,763	25,798	26,033	26,791	28,563	28,587	29,464	30,861	30,015	28,463	26,964	26,288
Hours worked (millions)	52.0	54.7	58.9	51.8	50.0	50.2	53.4	56.2	56.5	58.8	61.5	60.5	55.1	50.2	48.3
Wages and salaries (\$ millions)	366.3	416.2	460.9	405.4	400.4	408.2	435.8	458.0	473.3	505.5	541.8	544.9	554.2	536.3	530.1
Average annual hours worked	1,903	1,933	1,922	1,934	1,937	1,929	1,994	1,969	1,977	1,997	1,993	2,014	1,937	1,863	1,839
Average annual wages and salaries (\$)	13,417	14,693	15,041	15,148	15,521	15,682	16,265	16,033	16,558	17,157	17,556	18,153	19,470	19,889	20,166
Average hourly wage (\$)	7.05	7.60	7.83	7.83	8.01	8.13	8.16	8.14	8.37	8.59	8.81	9.01	10.05	10.68	10.97

Total industry estimates

Table A2f: Number of full-time employee, hours worked, and employment earnings, by occupations, Canada, annual percentage changes, 1988-2002

Accommodation Services (NAICS 721) <i>(excluding NAICS 7213)</i>	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
All occupations in Accommodation Services															
Number of jobs	-	3.9	8.5	-12.4	1.0	0.1	1.6	0.4	2.7	-0.8	9.0	1.6	-2.3	-0.6	-4.1
Hours worked (millions)	-	3.9	7.9	-12.7	0.1	-0.4	4.9	0.3	2.6	-1.7	7.6	2.8	-3.8	-3.1	-4.9
Wages and salaries (\$ millions)	-	12.0	11.1	-10.5	4.4	2.8	7.5	2.9	4.4	-0.9	8.6	3.9	5.0	2.5	-2.4
Average annual hours worked	-	0.1	-0.6	-0.3	-0.8	-0.5	3.2	-0.1	0.0	-0.9	-1.3	1.2	-1.5	-2.5	-0.8
Average annual wages and salaries (\$)	-	7.8	2.4	2.2	3.4	2.7	5.7	2.5	1.6	-0.1	-0.4	2.3	7.5	3.1	1.8
Average hourly wage (\$)	-	7.7	3.0	2.5	4.2	3.3	2.4	2.6	1.7	0.8	0.9	1.1	9.1	5.8	2.6
Accommodation Service Managers (A222)															
Number of jobs	-	7.5	10.6	-8.5	3.8	0.3	1.3	-0.7	5.6	3.8	17.5	4.8	-3.9	-10.3	-7.6
Hours worked (millions)	-	6.9	10.3	-9.0	1.1	-3.2	5.9	2.9	8.3	-1.7	11.8	3.1	-1.3	-12.6	-7.5
Wages and salaries (\$ millions)	-	15.3	13.6	-6.5	6.4	0.8	9.4	6.0	9.2	-1.0	12.6	3.7	7.0	-6.7	-4.8
Average annual hours worked	-	-0.6	-0.2	-0.6	-2.6	-3.5	4.5	3.6	2.6	-5.3	-4.9	-1.7	2.8	-2.6	0.2
Average annual wages and salaries (\$)	-	7.3	2.7	2.2	2.5	0.6	8.0	6.7	3.4	-4.6	-4.2	-1.1	11.4	4.1	3.1
Average hourly wage (\$)	-	7.9	3.0	2.8	5.2	4.2	3.4	3.0	0.8	0.6	0.7	0.6	8.4	6.8	2.9
Other Managers (A, excl. A222)															
Number of jobs	-	6.8	22.2	-16.4	-5.9	-6.3	-4.8	-1.4	10.8	6.3	16.8	4.0	3.3	-4.1	-5.7
Hours worked (millions)	-	4.9	17.9	-15.8	-7.0	-4.1	-2.9	-2.1	6.4	3.0	15.4	6.0	0.9	-8.7	-8.6
Wages and salaries (\$ millions)	-	12.9	21.2	-13.3	-2.2	0.5	0.6	1.3	8.3	3.7	16.2	6.9	9.3	-2.4	-5.9
Average annual hours worked	-	-1.8	-3.5	0.7	-1.1	2.3	2.0	-0.7	-3.9	-3.1	-1.2	1.9	-2.3	-4.8	-3.1
Average annual wages and salaries (\$)	-	5.7	-0.7	3.7	4.0	7.2	5.7	2.8	-2.2	-2.5	-0.5	2.8	5.8	1.8	-0.2
Average hourly wage (\$)	-	7.7	2.9	3.0	5.2	4.8	3.6	3.5	1.7	0.6	0.7	0.9	8.3	6.9	3.0
Business, Finance and Administrative Occupations (B)															
Number of jobs	-	6.5	4.3	-16.0	-9.5	-7.9	0.2	7.3	10.6	1.5	-2.0	6.1	-3.6	12.5	-4.8
Hours worked (millions)	-	6.1	2.7	-16.1	-10.5	-8.4	3.7	7.5	10.8	-1.1	-3.4	6.4	-3.5	9.4	-5.6
Wages and salaries (\$ millions)	-	13.4	5.0	-11.0	-4.8	-2.8	9.7	12.5	9.7	-2.0	-4.6	5.9	3.7	15.2	-2.9
Average annual hours worked	-	-0.4	-1.6	0.0	-1.1	-0.5	3.5	0.2	0.2	-2.6	-1.5	0.3	0.1	-2.8	-0.8
Average annual wages and salaries (\$)	-	6.5	0.7	6.0	5.3	5.5	9.5	4.9	-0.7	-3.5	-2.7	-0.1	7.6	2.4	2.0
Average hourly wage (\$)	-	6.9	2.3	6.0	6.4	6.1	5.7	4.6	-0.9	-1.0	-1.2	-0.4	7.5	5.3	2.9
Sales and Service Supervisors (G01)															
Number of jobs	-	9.3	7.8	-21.4	-5.9	-1.9	7.8	8.4	6.8	-0.5	6.9	11.8	5.7	8.3	5.7
Hours worked (millions)	-	10.5	8.1	-20.5	-5.5	0.2	7.7	7.6	6.2	1.8	6.1	11.5	0.5	8.5	5.1
Wages and salaries (\$ millions)	-	19.2	10.7	-18.7	-0.2	4.4	10.5	10.9	5.8	0.6	4.8	11.3	6.1	14.9	7.7
Average annual hours worked	-	1.1	0.3	1.1	0.4	2.2	-0.1	-0.8	-0.5	2.3	-0.8	-0.3	-4.9	0.2	-0.5
Average annual wages and salaries (\$)	-	9.0	2.7	3.4	6.1	6.5	2.5	2.3	-0.9	1.2	-2.0	-0.5	0.4	6.1	1.9
Average hourly wage (\$)	-	7.9	2.4	2.3	5.7	4.2	2.6	3.1	-0.4	-1.2	-1.3	-0.2	5.6	5.9	2.4
Chefs and Cooks (G41)															
Number of jobs	-	-0.8	0.9	-8.9	5.8	3.9	-4.5	-3.6	-2.7	-2.9	12.1	0.2	0.9	-4.4	-2.3
Hours worked (millions)	-	0.1	1.8	-9.4	4.8	2.8	-2.1	-3.4	-2.7	-4.0	10.3	1.8	0.0	-6.1	-2.4
Wages and salaries (\$ millions)	-	7.6	4.6	-7.1	9.3	5.4	-0.3	-1.8	-2.0	-3.7	10.5	1.9	8.3	-0.3	0.2

Total industry estimates

Table A2f: Number of full-time employee, hours worked, and employment earnings, by occupations, Canada, annual percentage changes, 1988-2002

Accommodation Services (NAICS 721) <i>(excluding NAICS 7213)</i>	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Average annual hours worked	-	0.9	0.9	-0.6	-1.0	-1.0	2.5	0.2	0.1	-1.1	-1.6	1.6	-0.9	-1.8	-0.1
Average annual wages and salaries (\$)	-	8.5	3.7	1.9	3.3	1.5	4.3	1.9	0.8	-0.9	-1.5	1.8	7.3	4.3	2.6
Average hourly wage (\$)	-	7.5	2.8	2.5	4.3	2.5	1.8	1.6	0.7	0.3	0.1	0.2	8.3	6.2	2.7
Occupations in Food and Beverage Service (G51)															
Number of jobs	-	0.4	4.5	-15.9	3.0	-0.3	2.2	-8.0	-4.0	-9.6	8.3	-1.6	-4.6	-4.4	-6.3
Hours worked (millions)	-	-0.8	2.6	-16.8	3.1	0.2	5.9	-8.3	-5.3	-10.1	7.2	-0.7	-7.1	-7.1	-7.2
Wages and salaries (\$ millions)	-	6.6	5.7	-15.5	7.2	2.9	7.7	-7.1	-3.1	-8.2	9.4	1.5	2.4	-1.1	-4.4
Average annual hours worked	-	-1.2	-1.8	-1.2	0.2	0.5	3.6	-0.3	-1.3	-0.5	-1.0	0.9	-2.7	-2.8	-0.9
Average annual wages and salaries (\$)	-	6.2	1.2	0.4	4.1	3.2	5.4	1.0	1.0	1.6	1.0	3.2	7.3	3.4	2.0
Average hourly wage (\$)	-	7.5	3.0	1.6	3.9	2.7	1.8	1.3	2.3	2.1	2.1	2.3	10.3	6.5	2.9
Hotel Front Desk Clerks (G715)															
Number of jobs	-	6.6	17.9	-6.0	6.4	4.1	12.4	7.3	2.9	-6.7	8.6	2.9	2.2	8.9	0.0
Hours worked (millions)	-	5.4	16.3	-5.1	6.1	4.0	15.5	5.6	2.9	-6.9	8.2	3.3	0.2	8.6	0.3
Wages and salaries (\$ millions)	-	13.4	19.2	-1.2	12.2	9.0	20.1	8.7	2.9	-7.1	7.5	3.1	7.8	15.2	2.9
Average annual hours worked	-	-1.1	-1.3	0.9	-0.3	-0.1	2.8	-1.5	0.0	-0.1	-0.4	0.4	-2.0	-0.2	0.3
Average annual wages and salaries (\$)	-	6.4	1.1	5.0	5.4	4.7	6.9	1.3	0.0	-0.4	-1.0	0.2	5.5	5.8	2.9
Average hourly wage (\$)	-	7.6	2.5	4.1	5.8	4.8	4.0	2.9	0.0	-0.2	-0.6	-0.2	7.6	6.0	2.6
Cleaners (G93)															
Number of jobs	-	3.2	8.4	-9.9	4.5	1.9	-0.3	-0.1	7.3	0.8	9.7	0.4	-3.6	1.7	-5.9
Hours worked (millions)	-	2.8	9.0	-11.5	4.3	1.4	3.8	-0.9	5.8	0.4	8.3	3.1	-5.9	0.6	-6.6
Wages and salaries (\$ millions)	-	10.7	12.1	-8.8	9.7	5.5	7.2	2.1	6.7	0.8	8.7	3.9	1.7	6.8	-3.9
Average annual hours worked	-	-0.3	0.6	-1.7	-0.2	-0.5	4.1	-0.8	-1.4	-0.4	-1.2	2.7	-2.4	-1.1	-0.9
Average annual wages and salaries (\$)	-	7.3	3.5	1.3	5.0	3.5	7.5	2.2	-0.5	0.0	-0.9	3.5	5.6	5.0	2.2
Average hourly wage (\$)	-	7.6	2.9	3.0	5.2	4.1	3.3	3.0	0.8	0.4	0.3	0.8	8.2	6.2	2.9
Food Counter Attendants and Kitchen Helpers (G96)															
Number of jobs	-	7.2	16.7	-17.3	2.0	-5.5	3.0	-11.4	-11.0	-5.1	12.4	8.7	-1.8	2.4	-7.3
Hours worked (millions)	-	8.4	11.5	-17.8	-1.5	-3.1	5.8	-11.0	-12.3	-6.6	7.9	15.1	-2.3	1.9	-10.1
Wages and salaries (\$ millions)	-	16.9	14.5	-17.6	1.8	-0.9	6.5	-10.3	-11.4	-6.0	8.5	16.5	5.5	8.2	-7.3
Average annual hours worked	-	1.1	-4.5	-0.6	-3.4	2.5	2.7	0.4	-1.5	-1.5	-4.0	5.8	-0.5	-0.5	-3.0
Average annual wages and salaries (\$)	-	9.0	-1.9	-0.3	-0.2	4.9	3.4	1.2	-0.5	-0.9	-3.4	7.2	7.5	5.6	0.0
Average hourly wage (\$)	-	7.8	2.7	0.3	3.4	2.3	0.7	0.8	1.0	0.6	0.5	1.2	8.0	6.2	3.1
All other occupations in Accommodation Services															
Number of jobs	-	3.7	8.2	-12.7	-3.6	0.9	2.9	6.6	0.1	3.1	4.7	-2.7	-5.2	-5.3	-2.5
Hours worked (millions)	-	5.4	7.6	-12.1	-3.5	0.5	6.4	5.3	0.5	4.1	4.6	-1.7	-8.8	-8.9	-3.8
Wages and salaries (\$ millions)	-	13.6	10.7	-12.0	-1.2	2.0	6.7	5.1	3.4	6.8	7.2	0.6	1.7	-3.2	-1.1
Average annual hours worked	-	1.6	-0.6	0.7	0.2	-0.4	3.3	-1.2	0.4	1.0	-0.2	1.0	-3.9	-3.8	-1.3
Average annual wages and salaries (\$)	-	9.5	2.4	0.7	2.5	1.0	3.7	-1.4	3.3	3.6	2.3	3.4	7.3	2.2	1.4
Average hourly wage (\$)	-	7.8	3.0	0.1	2.3	1.5	0.4	-0.2	2.8	2.6	2.5	2.3	11.5	6.2	2.7

Total industry estimates

Table A2g: Number of part-time employee, hours worked, and employment earnings, by occupations, Canada, 1988-2002

Accommodation Services (NAICS 721) (excluding NAICS 7213)	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
All occupations in Accommodation Services															
Number of jobs	55,698	56,137	59,403	59,101	61,244	61,918	63,485	60,692	60,540	59,911	59,155	61,801	59,491	57,534	61,834
Hours worked (millions)	51.3	50.8	52.9	50.7	53.8	53.7	55.0	53.9	53.2	52.2	53.1	52.3	51.7	51.7	55.3
Wages and salaries (\$ millions)	324.2	341.9	363.2	364.7	408.6	420.0	438.6	437.6	427.2	414.9	408.3	397.3	423.8	452.4	516.7
Average annual hours worked	921	904	890	857	879	867	867	889	879	871	898	847	869	899	894
Average annual wages and salaries (\$)	5,821	6,090	6,114	6,171	6,672	6,783	6,909	7,210	7,057	6,925	6,902	6,429	7,123	7,863	8,357
Average hourly wage (\$)	6.32	6.74	6.87	7.20	7.59	7.82	7.97	8.11	8.03	7.95	7.69	7.59	8.19	8.75	9.35
Accommodation Service Managers (A222)															
Number of jobs	848	1,037	1,174	1,345	1,333	1,285	1,238	1,190	1,338	1,148	1,220	1,540	1,767	1,792	1,809
Hours worked (millions)	1.2	1.4	1.5	1.8	1.7	1.6	1.5	1.5	1.5	1.2	1.4	1.7	1.9	1.9	2.0
Wages and salaries (\$ millions)	16.1	19.4	21.1	25.0	24.5	22.0	20.8	18.9	19.9	15.4	17.9	21.1	26.7	28.6	31.4
Average annual hours worked	1,455	1,377	1,294	1,302	1,283	1,230	1,247	1,236	1,156	1,035	1,159	1,075	1,070	1,064	1,078
Average annual wages and salaries (\$)	18,942	18,741	18,006	18,591	18,400	17,090	16,820	15,890	14,844	13,395	14,703	13,710	15,101	15,969	17,378
Average hourly wage (\$)	13.02	13.61	13.91	14.27	14.30	13.90	13.49	12.86	12.84	12.94	12.69	12.75	14.12	15.01	16.12
Other Managers (A, excl. A222)															
Number of jobs	443	376	396	317	329	300	436	418	547	642	734	745	636	773	854
Hours worked (millions)	0.7	0.5	0.6	0.4	0.4	0.4	0.5	0.5	0.7	0.7	0.8	0.9	0.7	0.9	1.1
Wages and salaries (\$ millions)	3.9	3.2	3.6	3.0	3.6	3.2	5.4	6.2	9.2	10.7	13.9	15.4	13.8	19.5	24.3
Average annual hours worked	1,481	1,368	1,409	1,337	1,364	1,195	1,200	1,247	1,209	1,071	1,134	1,168	1,136	1,226	1,299
Average annual wages and salaries (\$)	8,691	8,420	8,992	9,427	10,891	10,750	12,302	14,722	16,921	16,738	18,980	20,638	21,648	25,241	28,489
Average hourly wage (\$)	5.87	6.15	6.38	7.05	7.98	9.00	10.25	11.81	14.00	15.63	16.74	17.67	19.06	20.58	21.94
Business, Finance and Administrative Occupations (B)															
Number of jobs	2,221	2,631	3,051	3,134	2,631	2,074	2,081	2,105	2,572	2,946	3,380	3,036	2,622	2,609	2,985
Hours worked (millions)	2.5	2.8	3.2	3.0	2.6	2.0	2.0	2.0	2.6	3.1	3.5	2.9	2.5	2.6	3.0
Wages and salaries (\$ millions)	18.6	22.3	25.3	25.7	25.2	21.6	23.1	23.2	28.2	32.0	33.2	26.1	22.5	24.3	29.7
Average annual hours worked	1,117	1,059	1,041	942	987	975	970	973	992	1,038	1,033	951	965	1,014	1,018
Average annual wages and salaries (\$)	8,359	8,466	8,287	8,201	9,581	10,394	11,107	11,014	10,979	10,869	9,827	8,601	8,577	9,299	9,945
Average hourly wage (\$)	7.48	8.00	7.96	8.70	9.71	10.66	11.45	11.32	11.06	10.47	9.51	9.04	8.89	9.17	9.77
Sales and Service Supervisors (G01)															
Number of jobs	675	626	579	625	657	659	729	650	668	589	614	712	632	514	434
Hours worked (millions)	0.8	0.7	0.7	0.7	0.7	0.7	0.8	0.7	0.7	0.6	0.6	0.7	0.7	0.5	0.4
Wages and salaries (\$ millions)	5.3	5.2	5.1	5.0	5.8	5.9	7.0	6.2	6.0	4.9	5.3	5.9	6.1	5.1	4.5
Average annual hours worked	1,242	1,167	1,225	1,056	1,100	1,084	1,138	1,098	1,053	967	1,040	991	1,058	1,047	1,012
Average annual wages and salaries (\$)	7,915	8,326	8,880	8,010	8,818	8,926	9,618	9,509	9,020	8,290	8,707	9,077	9,707	10,001	10,454
Average hourly wage (\$)	6.37	7.13	7.25	7.58	8.02	8.24	8.45	8.66	8.57	8.57	8.37	8.35	9.17	9.55	10.33
Chefs and Cooks (G41)															
Number of jobs	2,185	2,269	2,289	2,459	2,491	2,882	2,690	2,742	2,633	2,392	2,305	2,449	2,394	2,280	2,353
Hours worked (millions)	2.2	2.3	2.3	2.4	2.4	2.7	2.6	2.5	2.6	2.3	2.4	2.2	2.4	2.5	2.7
Wages and salaries (\$ millions)	14.5	15.9	15.8	17.5	18.9	22.7	22.1	23.0	22.0	19.2	18.2	16.3	18.4	20.4	23.9

Total industry estimates

Table A2g: Number of part-time employee, hours worked, and employment earnings, by occupations, Canada, 1988-2002

Accommodation Services (NAICS 721) (excluding NAICS 7213)	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Average annual hours worked	1,020	1,019	987	963	954	945	948	930	974	970	1,020	909	1,004	1,092	1,161
Average annual wages and salaries (\$)	6,630	7,020	6,885	7,126	7,598	7,885	8,209	8,373	8,350	8,042	7,899	6,656	7,702	8,944	10,165
Average hourly wage (\$)	6.50	6.89	6.97	7.40	7.96	8.35	8.66	9.01	8.58	8.29	7.75	7.32	7.67	8.19	8.76
Occupations in Food and Beverage Service (G51)															
Number of jobs	14,137	14,283	15,612	15,791	16,790	16,305	16,603	15,040	13,656	12,395	11,584	12,520	11,297	11,101	11,454
Hours worked (millions)	12.9	12.7	13.5	13.1	14.7	14.3	14.9	14.0	12.5	11.5	10.9	11.0	9.8	10.0	10.2
Wages and salaries (\$ millions)	85.9	89.7	97.4	97.1	114.2	114.7	120.6	115.1	101.6	93.6	86.9	87.0	85.8	92.5	101.6
Average annual hours worked	913	892	866	832	873	877	897	930	915	927	943	877	868	897	889
Average annual wages and salaries (\$)	6,076	6,283	6,236	6,147	6,800	7,037	7,266	7,651	7,442	7,550	7,503	6,949	7,591	8,335	8,867
Average hourly wage (\$)	6.65	7.04	7.20	7.39	7.79	8.02	8.10	8.23	8.13	8.15	7.96	7.92	8.75	9.29	9.97
Hotel Front Desk Clerks (G715)															
Number of jobs	3,765	3,828	4,102	4,639	5,045	4,955	5,445	5,219	5,331	5,267	5,297	5,643	6,101	6,410	7,233
Hours worked (millions)	4.3	4.2	4.2	4.4	5.0	4.9	5.5	5.4	5.4	5.3	5.6	5.9	6.1	6.6	7.1
Wages and salaries (\$ millions)	24.5	24.9	26.0	29.0	36.5	37.9	43.8	45.1	43.8	42.5	41.0	43.7	50.0	56.2	64.2
Average annual hours worked	1,140	1,085	1,029	941	1,001	998	1,007	1,041	1,016	1,014	1,062	1,038	1,008	1,029	980
Average annual wages and salaries (\$)	6,506	6,505	6,336	6,246	7,240	7,652	8,045	8,643	8,219	8,066	7,734	7,743	8,191	8,769	8,883
Average hourly wage (\$)	5.71	6.00	6.16	6.63	7.24	7.67	7.99	8.31	8.09	7.95	7.28	7.46	8.13	8.52	9.06
Cleaners (G93)															
Number of jobs	16,634	15,802	16,656	15,924	16,887	17,632	18,209	18,208	19,411	20,243	20,311	20,066	19,100	17,285	18,740
Hours worked (millions)	14.2	13.3	14.0	12.9	14.1	14.5	14.8	15.2	16.1	16.5	17.1	15.7	15.6	14.2	15.4
Wages and salaries (\$ millions)	80.1	79.4	85.2	82.8	96.7	104.5	109.9	116.6	120.3	121.9	121.2	108.2	116.2	113.1	130.5
Average annual hours worked	854	844	839	813	836	822	813	832	827	813	840	782	815	824	821
Average annual wages and salaries (\$)	4,813	5,026	5,115	5,203	5,726	5,926	6,035	6,403	6,196	6,020	5,968	5,391	6,081	6,543	6,965
Average hourly wage (\$)	5.64	5.96	6.10	6.40	6.85	7.21	7.43	7.69	7.49	7.40	7.11	6.89	7.46	7.94	8.49
Food Counter Attendants and Kitchen Helpers (G96)															
Number of jobs	4,510	4,881	5,381	5,293	5,668	5,576	5,725	4,901	4,784	4,534	4,453	4,590	4,387	4,706	5,368
Hours worked (millions)	3.4	3.6	4.0	3.8	4.1	4.0	4.1	3.8	3.5	3.3	3.4	3.3	3.3	3.6	4.1
Wages and salaries (\$ millions)	18.0	20.2	22.9	21.8	24.9	24.4	25.2	23.3	21.4	20.6	20.1	19.9	21.4	25.5	31.0
Average annual hours worked	757	742	747	716	730	714	721	775	733	739	753	729	744	767	765
Average annual wages and salaries (\$)	3,987	4,139	4,248	4,117	4,388	4,375	4,402	4,757	4,468	4,336	4,519	4,339	4,870	5,428	5,777
Average hourly wage (\$)	5.26	5.58	5.69	5.75	6.01	6.13	6.10	6.14	6.10	6.14	6.00	5.95	6.55	7.08	7.55
All other occupations in Accommodation Services															
Number of jobs	10,281	10,404	10,163	9,573	9,413	10,249	10,329	10,217	9,599	9,757	9,256	10,500	10,554	10,065	10,614
Hours worked (millions)	9.0	9.1	8.9	8.3	8.0	8.6	8.3	8.3	7.7	7.7	7.4	8.1	8.7	8.8	9.2
Wages and salaries (\$ millions)	57.5	61.6	60.9	57.8	58.3	63.1	60.7	60.1	54.7	54.2	50.4	53.7	63.0	67.1	75.5
Average annual hours worked	878	878	877	863	849	835	802	809	803	789	804	772	825	873	871
Average annual wages and salaries (\$)	5,593	5,921	5,989	6,036	6,192	6,155	5,875	5,887	5,702	5,553	5,448	5,117	5,968	6,667	7,117
Average hourly wage (\$)	6.37	6.74	6.83	6.99	7.29	7.37	7.32	7.27	7.11	7.03	6.78	6.63	7.24	7.64	8.17

Total industry estimates

Table A2h: Number of part-time employee, hours worked, and employment earnings, by occupations, Canada, annual percentage changes, 1988-2002

Accommodation Services (NAICS 721) (excluding NAICS 7213)	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
All occupations in Accommodation Services															
Number of jobs	-	0.8	5.8	-0.5	3.6	1.1	2.5	-4.4	-0.2	-1.0	-1.3	4.5	-3.7	-3.3	7.5
Hours worked (millions)	-	-1.0	4.2	-4.2	6.2	-0.3	2.5	-2.0	-1.3	-2.0	1.8	-1.5	-1.2	0.0	6.9
Wages and salaries (\$ millions)	-	5.4	6.2	0.4	12.0	2.8	4.4	-0.2	-2.4	-2.9	-1.6	-2.7	6.7	6.8	14.2
Average annual hours worked	-	-1.8	-1.6	-3.7	2.5	-1.3	0.0	2.5	-1.1	-0.9	3.1	-5.7	2.7	3.4	-0.6
Average annual wages and salaries (\$)	-	4.6	0.4	0.9	8.1	1.7	1.9	4.4	-2.1	-1.9	-0.3	-6.9	10.8	10.4	6.3
Average hourly wage (\$)	-	6.5	2.0	4.8	5.5	3.0	1.8	1.8	-1.1	-0.9	-3.4	-1.2	7.9	6.7	6.9
Accommodation Service Managers (A222)															
Number of jobs	-	22.4	13.2	14.5	-0.9	-3.6	-3.7	-3.8	12.4	-14.2	6.3	26.3	14.7	1.4	1.0
Hours worked (millions)	-	15.8	6.4	15.3	-2.3	-7.7	-2.3	-4.7	5.2	-23.2	19.1	17.1	14.2	0.8	2.3
Wages and salaries (\$ millions)	-	21.1	8.7	18.3	-1.9	-10.5	-5.2	-9.1	5.0	-22.6	16.7	17.7	26.4	7.2	9.9
Average annual hours worked	-	-5.4	-6.0	0.6	-1.5	-4.2	1.4	-0.9	-6.4	-10.5	12.0	-7.2	-0.5	-0.6	1.4
Average annual wages and salaries (\$)	-	-1.1	-3.9	3.3	-1.0	-7.1	-1.6	-5.5	-6.6	-9.8	9.8	-6.8	10.1	5.8	8.8
Average hourly wage (\$)	-	4.5	2.2	2.6	0.4	-3.1	-3.0	-4.7	-0.2	0.8	-2.0	0.5	10.7	6.3	7.4
Other Managers (A, excl. A222)															
Number of jobs	-	-15.3	5.3	-19.9	4.0	-8.8	45.1	-4.1	30.8	17.4	14.3	1.5	-14.5	21.4	10.5
Hours worked (millions)	-	-21.8	8.4	-24.0	6.2	-20.2	45.7	-0.4	26.8	4.0	21.1	4.6	-16.9	31.1	17.0
Wages and salaries (\$ millions)	-	-18.0	12.5	-16.0	20.1	-10.0	66.0	14.8	50.4	16.1	29.6	10.4	-10.4	41.6	24.7
Average annual hours worked	-	-7.6	3.0	-5.1	2.1	-12.4	0.5	3.9	-3.1	-11.4	5.9	3.0	-2.8	8.0	5.9
Average annual wages and salaries (\$)	-	-3.1	6.8	4.8	15.5	-1.3	14.4	19.7	14.9	-1.1	13.4	8.7	4.9	16.6	12.9
Average hourly wage (\$)	-	4.9	3.7	10.5	13.2	12.7	13.9	15.2	18.6	11.7	7.1	5.5	7.9	8.0	6.6
Business, Finance and Administrative Occupations (B)															
Number of jobs	-	18.5	16.0	2.7	-16.0	-21.2	0.3	1.2	22.2	14.5	14.7	-10.2	-13.6	-0.5	14.4
Hours worked (millions)	-	12.3	14.0	-7.0	-12.1	-22.1	-0.2	1.5	24.7	19.8	14.2	-17.3	-12.3	4.6	14.8
Wages and salaries (\$ millions)	-	20.0	13.5	1.6	-1.9	-14.5	7.2	0.3	21.8	13.4	3.7	-21.4	-13.9	7.9	22.4
Average annual hours worked	-	-5.2	-1.7	-9.4	4.7	-1.2	-0.5	0.3	2.0	4.6	-0.4	-8.0	1.5	5.1	0.4
Average annual wages and salaries (\$)	-	1.3	-2.1	-1.0	16.8	8.5	6.9	-0.8	-0.3	-1.0	-9.6	-12.5	-0.3	8.4	6.9
Average hourly wage (\$)	-	6.8	-0.4	9.3	11.6	9.8	7.4	-1.2	-2.3	-5.3	-9.2	-4.9	-1.7	3.2	6.6
Sales and Service Supervisors (G01)															
Number of jobs	-	-7.2	-7.5	8.0	5.0	0.4	10.5	-10.8	2.8	-11.9	4.3	15.9	-11.2	-18.6	-15.6
Hours worked (millions)	-	-12.8	-2.9	-6.9	9.3	-1.1	16.1	-13.9	-1.4	-19.1	12.2	10.4	-5.2	-19.5	-18.4
Wages and salaries (\$ millions)	-	-2.4	-1.3	-2.6	15.6	1.6	19.1	-11.8	-2.5	-19.1	9.6	10.1	4.1	-16.1	-11.8
Average annual hours worked	-	-6.0	5.0	-13.8	4.1	-1.5	5.0	-3.5	-4.1	-8.1	7.5	-0.7	6.8	-1.1	-3.3
Average annual wages and salaries (\$)	-	5.2	6.7	-9.8	10.1	1.2	7.8	-1.1	-5.1	-8.1	5.0	-5.0	17.3	3.0	4.5
Average hourly wage (\$)	-	11.9	1.6	4.6	5.7	2.7	2.6	2.5	-1.1	0.0	-2.3	-0.3	9.9	4.2	8.1
Chefs and Cooks (G41)															
Number of jobs	-	3.8	0.9	7.4	1.3	15.7	-6.7	1.9	-4.0	-9.2	-3.6	6.2	-2.2	-4.8	3.2
Hours worked (millions)	-	3.8	-2.3	4.8	0.4	14.6	-6.3	-0.1	0.6	-9.5	1.3	-5.3	8.0	3.5	9.8
Wages and salaries (\$ millions)	-	9.9	-1.1	11.2	8.0	20.0	-2.8	4.0	-4.2	-12.5	-5.3	-10.5	13.2	10.6	17.3

Total industry estimates

Table A2h: Number of part-time employee, hours worked, and employment earnings, by occupations, Canada, annual percentage changes, 1988-2002

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Accommodation Services (NAICS 721)															
<i>(excluding NAICS 7213)</i>															
Average annual hours worked	-	0.0	-3.2	-2.5	-0.9	-1.0	0.4	-1.9	4.7	-0.3	5.1	-10.8	10.4	8.7	6.4
Average annual wages and salaries (\$)	-	5.9	-1.9	3.5	6.6	3.8	4.1	2.0	-0.3	-3.7	-1.8	-15.7	15.7	16.1	13.7
Average hourly wage (\$)	-	5.9	1.3	6.1	7.6	4.8	3.7	4.0	-4.8	-3.4	-6.5	-5.5	4.8	6.8	6.9
Occupations in Food and Beverage Service (G51)															
Number of jobs	-	1.0	9.3	1.1	6.3	-2.9	1.8	-9.4	-9.2	-9.2	-6.5	8.1	-9.8	-1.7	3.2
Hours worked (millions)	-	-1.3	6.1	-2.9	11.7	-2.5	4.1	-6.1	-10.6	-8.1	-4.9	0.6	-10.7	1.6	2.2
Wages and salaries (\$ millions)	-	4.5	8.5	-0.3	17.6	0.5	5.1	-4.6	-11.7	-7.9	-7.1	0.1	-1.4	7.9	9.8
Average annual hours worked	-	-2.3	-2.9	-4.0	5.0	0.4	2.2	3.7	-1.6	1.2	1.7	-6.9	-1.1	3.4	-0.9
Average annual wages and salaries (\$)	-	3.4	-0.7	-1.4	10.6	3.5	3.2	5.3	-2.7	1.5	-0.6	-7.4	9.2	9.8	6.4
Average hourly wage (\$)	-	5.8	2.2	2.7	5.3	3.0	1.0	1.6	-1.2	0.2	-2.3	-0.5	10.4	6.2	7.4
Hotel Front Desk Clerks (G715)															
Number of jobs	-	1.7	7.2	13.1	8.7	-1.8	9.9	-4.1	2.1	-1.2	0.6	6.5	8.1	5.1	12.8
Hours worked (millions)	-	-3.2	1.6	3.5	15.6	-2.0	10.8	-0.9	-0.3	-1.4	5.4	4.1	5.0	7.2	7.5
Wages and salaries (\$ millions)	-	1.7	4.4	11.5	26.0	3.8	15.5	3.0	-2.9	-3.0	-3.6	6.6	14.4	12.5	14.3
Average annual hours worked	-	-4.8	-5.2	-8.5	6.3	-0.2	0.8	3.4	-2.3	-0.2	4.8	-2.3	-2.9	2.1	-4.8
Average annual wages and salaries (\$)	-	0.0	-2.6	-1.4	15.9	5.7	5.1	7.4	-4.9	-1.9	-4.1	0.1	5.8	7.1	1.3
Average hourly wage (\$)	-	5.1	2.7	7.7	9.1	6.0	4.2	3.9	-2.6	-1.6	-8.5	2.5	8.9	4.9	6.4
Cleaners (G93)															
Number of jobs	-	-5.0	5.4	-4.4	6.0	4.4	3.3	0.0	6.6	4.3	0.3	-1.2	-4.8	-9.5	8.4
Hours worked (millions)	-	-6.1	4.8	-7.4	9.0	2.7	2.1	2.4	6.0	2.5	3.6	-8.0	-0.8	-8.6	8.0
Wages and salaries (\$ millions)	-	-0.8	7.3	-2.8	16.7	8.1	5.2	6.1	3.2	1.3	-0.5	-10.8	7.4	-2.6	15.4
Average annual hours worked	-	-1.1	-0.6	-3.1	2.8	-1.7	-1.2	2.4	-0.6	-1.7	3.3	-6.9	4.2	1.0	-0.4
Average annual wages and salaries (\$)	-	4.4	1.8	1.7	10.1	3.5	1.8	6.1	-3.2	-2.9	-0.9	-9.7	12.8	7.6	6.4
Average hourly wage (\$)	-	5.6	2.3	5.0	7.1	5.2	3.0	3.6	-2.7	-1.2	-4.0	-3.0	8.2	6.5	6.8
Food Counter Attendants and Kitchen Helpers (G96)															
Number of jobs	-	8.2	10.2	-1.6	7.1	-1.6	2.7	-14.4	-2.4	-5.2	-1.8	3.1	-4.4	7.3	13.9
Hours worked (millions)	-	6.0	11.0	-5.7	9.2	-3.8	3.7	-8.0	-7.7	-4.5	0.2	-0.2	-2.5	10.6	13.5
Wages and salaries (\$ millions)	-	12.4	13.2	-4.7	14.1	-1.9	3.3	-7.5	-8.3	-3.8	-2.1	-1.0	7.3	19.5	21.2
Average annual hours worked	-	-2.1	0.7	-4.1	2.0	-2.2	1.0	7.4	-5.4	0.8	2.0	-3.2	2.0	3.1	-0.3
Average annual wages and salaries (\$)	-	3.8	2.6	-3.1	6.6	-0.3	0.6	8.1	-6.1	1.5	-0.4	-4.0	12.3	11.4	6.4
Average hourly wage (\$)	-	6.0	1.9	1.0	4.5	2.0	-0.4	0.6	-0.7	0.7	-2.3	-0.8	10.0	8.1	6.8
All other occupations in Accommodation Services															
Number of jobs	-	1.2	-2.3	-5.8	-1.7	8.9	0.8	-1.1	-6.1	1.6	-5.1	13.4	0.5	-4.6	5.5
Hours worked (millions)	-	1.2	-2.5	-7.2	-3.3	7.0	-3.2	-0.2	-6.8	0.0	-3.4	9.0	7.4	0.9	5.2
Wages and salaries (\$ millions)	-	7.1	-1.2	-5.1	0.9	8.2	-3.8	-0.9	-9.0	-1.0	-6.9	6.6	17.2	6.5	12.6
Average annual hours worked	-	0.0	-0.2	-1.5	-1.6	-1.7	-3.9	0.9	-0.8	-1.6	1.8	-4.0	6.9	5.9	-0.2
Average annual wages and salaries (\$)	-	5.9	1.2	0.8	2.6	-0.6	-4.5	0.2	-3.1	-2.6	-1.9	-6.1	16.6	11.7	6.7
Average hourly wage (\$)	-	5.8	1.3	2.3	4.3	1.1	-0.6	-0.7	-2.3	-1.0	-3.6	-2.2	9.1	5.5	7.0

Appendix A: Basic statistical tables

Tourism results

Tourism estimates

Table A1a: Number of jobs, hours worked, and employment earnings, by class of worker, Canada, 1988-2002

Air Transportation (NAICS 481)	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Total jobs															
Number of jobs	47,200	51,400	52,400	50,000	46,000	47,400	49,700	53,400	56,600	57,300	58,300	60,800	64,400	59,500	55,200
Hours worked (millions)	82	89	91	87	81	84	89	93	98	99	100	104	109	102	95
Income from employment (\$ millions)	1,857	2,052	2,205	2,276	2,182	2,188	2,267	2,437	2,620	2,832	2,945	3,249	3,530	3,379	3,219
Of which:															
Labour income (\$ millions)	1,833	2,028	2,181	2,251	2,156	2,164	2,245	2,413	2,594	2,802	2,911	3,207	3,486	3,334	3,175
All employee jobs															
Number of jobs	46,699	50,891	51,879	49,468	45,461	46,845	49,154	52,837	55,987	56,679	57,643	60,097	63,650	58,755	54,468
Number of full-time equivalent jobs	42,489	47,141	47,881	45,587	41,562	42,899	45,144	48,298	50,915	50,989	51,631	54,078	57,895	52,947	49,003
Hours worked (millions)	81	88	90	86	80	83	88	92	97	98	99	102	108	101	94
Wages and salaries (\$ millions)	1,650	1,825	1,963	2,026	1,941	1,948	2,030	2,172	2,334	2,522	2,642	2,884	3,135	2,976	2,853
Average annual hours worked	1,744	1,724	1,740	1,732	1,753	1,777	1,796	1,746	1,731	1,728	1,713	1,703	1,698	1,716	1,723
Average annual wages and salaries (\$)	35,332	35,857	37,838	40,958	42,686	41,581	41,304	41,101	41,695	44,494	45,839	47,984	49,251	50,654	52,379
Average hourly wage (\$)	20.25	20.80	21.74	23.65	24.35	23.39	23.00	23.54	24.09	25.75	26.76	28.18	29.00	29.51	30.40
Full-time employee jobs															
Number of jobs	36,956	40,971	41,456	39,660	36,322	37,784	39,956	42,290	44,226	44,064	44,711	47,472	51,024	46,135	43,795
Hours worked (millions)	72	76	79	75	71	74	78	81	84	85	86	90	95	88	84
Wages and salaries (\$ millions)	1,469	1,609	1,732	1,793	1,740	1,747	1,830	1,944	2,068	2,229	2,341	2,587	2,813	2,650	2,603
Average annual hours worked	1,939	1,866	1,900	1,888	1,941	1,949	1,962	1,922	1,910	1,933	1,925	1,902	1,870	1,915	1,924
Average annual wages and salaries (\$)	39,740	39,267	41,786	45,210	47,892	46,232	45,807	45,957	46,767	50,589	52,349	54,498	55,133	57,445	59,446
Average hourly wage (\$)	20.49	21.04	22.00	23.94	24.67	23.73	23.35	23.92	24.48	26.17	27.20	28.65	29.49	30.00	30.90
Part-time employee jobs															
Number of jobs	9,743	9,920	10,423	9,807	9,138	9,062	9,198	10,547	11,761	12,615	12,931	12,625	12,626	12,620	10,673
Hours worked (millions)	10	11	12	11	9	10	10	11	12	13	13	12	13	13	10
Wages and salaries (\$ millions)	181	216	231	233	201	201	200	228	266	293	302	297	322	326	250
Average annual hours worked	1,005	1,137	1,106	1,101	1,006	1,064	1,073	1,041	1,054	1,011	981	952	1,005	992	901
Average annual wages and salaries (\$)	18,614	21,775	22,133	23,766	21,994	22,188	21,743	21,628	22,622	23,204	23,330	23,492	25,479	25,831	23,381
Average hourly wage (\$)	18.52	19.15	20.01	21.59	21.85	20.86	20.26	20.78	21.46	22.96	23.79	24.68	25.36	26.03	25.95
All self-employment jobs															
Number of jobs	501	509	521	532	539	555	546	563	613	621	657	703	750	745	732
Hours worked (millions)	1.0	1.1	1.0	1.0	0.9	0.9	0.8	0.9	1.0	1.0	1.2	1.3	1.4	1.3	1.3
Income from self-employment (\$ millions)	23	25	24	25	26	23	21	24	26	30	35	42	44	45	44
Average annual hours worked	2,056	2,089	1,898	1,786	1,750	1,625	1,525	1,610	1,591	1,662	1,784	1,904	1,809	1,807	1,793
Average annual income (\$)	46,277	48,288	45,855	46,939	47,349	42,248	38,792	42,118	42,594	47,550	52,591	59,677	58,359	59,742	60,657

Tourism estimates

Table A1b: Number of jobs, hours worked, and employment earnings, by class of worker, Canada, annual percentage changes, 1988-2002

Air Transportation (NAICS 481)	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Total jobs															
Number of jobs	-	8.9	1.9	-4.6	-8.0	3.0	4.9	7.4	6.0	1.2	1.7	4.3	5.9	-7.6	-7.2
Hours worked (millions)	-	7.6	2.8	-5.1	-6.9	4.4	5.9	4.5	5.1	1.1	1.0	3.8	5.6	-6.6	-6.9
Income from employment (\$ millions)	-	10.5	7.4	3.2	-4.2	0.3	3.6	7.5	7.5	8.1	4.0	10.3	8.7	-4.3	-4.7
Of which:															
Labour income (\$ millions)	-	10.6	7.6	3.2	-4.2	0.4	3.7	7.5	7.5	8.0	3.9	10.2	8.7	-4.4	-4.8
All employee jobs															
Number of jobs	-	9.0	1.9	-4.6	-8.1	3.0	4.9	7.5	6.0	1.2	1.7	4.3	5.9	-7.7	-7.3
Number of full-time equivalent jobs	-	10.9	1.6	-4.8	-8.8	3.2	5.2	7.0	5.4	0.1	1.3	4.7	7.1	-8.5	-7.4
Hours worked (millions)	-	7.7	2.9	-5.1	-7.0	4.5	6.0	4.5	5.0	1.1	0.8	3.6	5.6	-6.7	-6.9
Wages and salaries (\$ millions)	-	10.6	7.6	3.2	-4.2	0.4	4.2	7.0	7.5	8.0	4.8	9.1	8.7	-5.1	-4.1
Average annual hours worked	-	-1.2	1.0	-0.5	1.2	1.4	1.0	-2.8	-0.9	-0.2	-0.9	-0.6	-0.3	1.1	0.4
Average annual wages and salaries (\$)	-	1.5	5.5	8.2	4.2	-2.6	-0.7	-0.5	1.4	6.7	3.0	4.7	2.6	2.9	3.4
Average hourly wage (\$)	-	2.7	4.5	8.8	3.0	-3.9	-1.7	2.4	2.3	6.9	3.9	5.3	2.9	1.8	3.0
Full-time employee jobs															
Number of jobs	-	10.9	1.2	-4.3	-8.4	4.0	5.8	5.8	4.6	-0.4	1.5	6.2	7.5	-9.6	-5.1
Hours worked (millions)	-	6.7	3.0	-4.9	-5.9	4.4	6.5	3.7	4.0	0.8	1.0	4.9	5.6	-7.4	-4.6
Wages and salaries (\$ millions)	-	9.5	7.7	3.5	-3.0	0.4	4.8	6.2	6.4	7.8	5.0	10.5	8.7	-5.8	-1.8
Average annual hours worked	-	-3.8	1.8	-0.6	2.8	0.4	0.7	-2.1	-0.6	1.2	-0.4	-1.2	-1.7	2.4	0.5
Average annual wages and salaries (\$)	-	-1.2	6.4	8.2	5.9	-3.5	-0.9	0.3	1.8	8.2	3.5	4.1	1.2	4.2	3.5
Average hourly wage (\$)	-	2.7	4.5	8.9	3.0	-3.8	-1.6	2.4	2.4	6.9	3.9	5.3	2.9	1.8	3.0
Part-time employee jobs															
Number of jobs	-	1.8	5.1	-5.9	-6.8	-0.8	1.5	14.7	11.5	7.3	2.5	-2.4	0.0	-0.1	-15.4
Hours worked (millions)	-	15.2	2.2	-6.4	-14.8	4.8	2.4	11.2	12.9	2.8	-0.5	-5.2	5.6	-1.3	-23.2
Wages and salaries (\$ millions)	-	19.1	6.8	1.0	-13.8	0.0	-0.5	14.1	16.6	10.0	3.1	-1.7	8.5	1.3	-23.4
Average annual hours worked	-	13.1	-2.7	-0.5	-8.6	5.7	0.9	-3.0	1.3	-4.1	-2.9	-2.9	5.5	-1.2	-9.2
Average annual wages and salaries (\$)	-	17.0	1.6	7.4	-7.5	0.9	-2.0	-0.5	4.6	2.6	0.5	0.7	8.5	1.4	-9.5
Average hourly wage (\$)	-	3.4	4.5	7.9	1.2	-4.6	-2.9	2.6	3.3	7.0	3.6	3.7	2.8	2.7	-0.3
All self-employment jobs															
Number of jobs	-	1.6	2.4	2.2	1.3	2.8	-1.6	3.2	8.8	1.4	5.8	7.0	6.6	-0.6	-1.7
Hours worked (millions)	-	3.2	-7.0	-3.8	-0.7	-4.5	-7.6	8.9	7.5	5.9	13.6	14.2	1.3	-0.7	-2.5
Income from self-employment (\$ millions)	-	6.0	-2.8	4.6	2.2	-8.3	-9.6	12.0	10.0	13.2	17.0	21.4	4.3	1.8	-0.2
Average annual hours worked	-	1.6	-9.2	-5.9	-2.0	-7.1	-6.2	5.6	-1.2	4.4	7.4	6.7	-5.0	-0.1	-0.8
Average annual income	-	4.3	-5.0	2.4	0.9	-10.8	-8.2	8.6	1.1	11.6	10.6	13.5	-2.2	2.4	1.5

Tourism estimates

Table A1c: Number of employee jobs, hours worked, and employment earnings, by occupation, Canada, 1988-2002

Air Transportation (NAICS 481)	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
All occupations in Air Transportation															
Number of jobs	46,699	50,795	51,975	49,468	45,557	46,850	49,165	52,856	55,890	56,679	57,643	60,097	63,465	58,755	54,468
Number of full-time equivalent jobs	42,489	47,141	47,881	45,587	41,562	42,899	45,144	48,298	50,915	50,989	51,631	54,078	57,895	52,947	49,003
Hours worked (millions)	82	88	90	86	80	83	89	93	97	98	99	102	108	101	94
Wages and salaries (\$ millions)	1,658.3	1,824.8	1,963.0	2,007.9	1,928.0	1,947.9	2,030.3	2,175.5	2,334.4	2,521.9	2,642.3	2,884.6	3,131.1	2,972.4	2,854.9
Average annual hours worked	1,751	1,731	1,735	1,738	1,764	1,778	1,801	1,751	1,735	1,728	1,713	1,702	1,703	1,716	1,723
Average annual wages and salaries (\$)	35,509	35,925	37,767	40,591	42,322	41,577	41,294	41,158	41,767	44,494	45,839	48,000	49,336	50,590	52,414
Average hourly wage (\$)	20.28	20.75	21.77	23.36	24.00	23.39	22.93	23.50	24.07	25.75	26.76	28.21	28.97	29.47	30.42
Management occupations (A)															
Number of jobs	3,217	3,390	3,282	2,846	2,714	2,742	2,756	2,642	2,764	2,936	3,156	3,518	3,793	3,640	3,441
Number of full-time equivalent jobs	3,097	3,294	3,181	2,769	2,644	2,681	2,703	2,592	2,706	2,854	3,053	3,400	3,658	3,504	3,315
Hours worked (millions)	7	7	7	6	6	7	7	6	7	7	7	8	9	8	8
Wages and salaries (\$ millions)	183.9	189.0	186.4	172.2	172.4	182.3	189.7	187.4	189.6	206.3	220.2	250.3	280.1	268.4	264.8
Average annual hours worked	2,285	2,188	2,218	2,246	2,364	2,389	2,402	2,352	2,358	2,330	2,285	2,146	2,248	2,240	2,345
Average annual wages and salaries (\$)	57,168	55,759	56,806	60,517	63,529	66,491	68,840	70,902	68,575	70,282	69,773	71,148	73,853	73,744	76,963
Average hourly wage (\$)	25.02	25.48	25.61	26.95	26.87	27.83	28.66	30.14	29.08	30.16	30.53	33.15	32.85	32.92	32.82
Business, Finance and Administrative Occupations (B)															
Number of jobs	7,546	7,879	7,651	6,763	6,375	6,781	6,914	6,823	6,701	6,671	6,681	6,873	7,214	6,695	6,239
Number of full-time equivalent jobs	6,879	7,318	7,064	6,257	5,859	6,239	6,374	6,258	6,126	6,015	5,989	6,176	6,551	6,003	5,592
Hours worked (millions)	13	14	14	12	11	12	13	12	12	12	12	12	13	12	11
Wages and salaries (\$ millions)	211.0	217.7	214.5	197.1	195.5	206.0	213.0	210.3	208.8	222.1	231.0	253.7	276.8	267.3	258.2
Average annual hours worked	1,741	1,767	1,777	1,771	1,781	1,805	1,861	1,815	1,812	1,821	1,808	1,790	1,786	1,793	1,798
Average annual wages and salaries (\$)	27,965	27,630	28,033	29,145	30,667	30,378	30,808	30,825	31,157	33,299	34,568	36,910	38,367	39,929	41,388
Average hourly wage (\$)	16.06	15.64	15.77	16.46	17.22	16.83	16.55	16.99	17.19	18.29	19.12	20.62	21.48	22.27	23.02
Air Pilots, Flight Engineers and Flying Instructors (C171)															
Number of jobs	5,698	6,340	6,520	6,354	5,817	6,179	6,747	7,327	7,707	7,638	7,930	8,511	9,112	8,538	8,137
Number of full-time equivalent jobs	5,398	6,078	6,220	6,068	5,550	5,891	6,449	7,009	7,350	7,249	7,524	8,109	8,754	8,151	7,765
Hours worked (millions)	10	11	11	11	10	11	13	14	14	14	15	16	16	15	14
Wages and salaries (\$ millions)	359.2	401.0	441.4	458.5	438.8	445.1	469.9	502.0	548.1	596.5	642.5	724.6	796.4	769.1	748.7
Average annual hours worked	1,711	1,671	1,696	1,716	1,774	1,817	1,883	1,848	1,870	1,890	1,886	1,830	1,761	1,797	1,772
Average annual wages and salaries (\$)	63,030	63,254	67,706	72,163	75,439	72,031	69,635	68,517	71,119	78,102	81,020	85,145	87,408	90,079	92,008
Average hourly wage (\$)	36.85	37.85	39.92	42.05	42.52	39.64	36.98	37.07	38.02	41.33	42.96	46.52	49.62	50.14	51.92
Pursers and Flight Attendants (G712)															
Number of jobs	6,315	7,097	7,229	6,904	6,212	6,654	7,338	8,568	9,660	10,125	10,402	10,789	11,678	10,924	10,152
Number of full-time equivalent jobs	5,649	6,538	6,552	6,302	5,605	6,061	6,730	7,838	8,791	9,027	9,168	9,490	10,412	9,577	8,848
Hours worked (millions)	8	9	10	9	8	9	10	12	13	13	13	14	15	14	13
Wages and salaries (\$ millions)	175.5	201.7	222.4	227.2	214.0	228.9	246.8	287.7	329.4	365.0	385.2	413.1	456.7	431.2	405.4
Average annual hours worked	1,338	1,303	1,327	1,321	1,338	1,368	1,391	1,352	1,307	1,288	1,274	1,278	1,292	1,302	1,310
Average annual wages and salaries (\$)	27,793	28,418	30,773	32,908	34,447	34,395	33,628	33,579	34,103	36,048	37,035	38,290	39,109	39,478	39,933
Average hourly wage (\$)	20.78	21.82	23.20	24.91	25.74	25.15	24.18	24.84	26.09	28.00	29.06	29.96	30.28	30.31	30.48

Tourism estimates

Table A1c: Number of employee jobs, hours worked, and employment earnings, by occupation, Canada, 1988-2002

Air Transportation (NAICS 481)	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Airline Sales and Service Agents (G713)															
Number of jobs	7,402	8,136	8,676	8,692	8,026	8,022	8,387	9,426	10,114	10,336	10,497	10,881	11,248	10,262	9,146
Number of full-time equivalent jobs	6,275	7,134	7,488	7,496	6,768	6,766	7,090	7,870	8,495	8,538	8,653	9,063	9,647	8,619	7,622
Hours worked (millions)	12	13	14	14	13	13	14	15	16	16	16	17	18	17	15
Wages and salaries (\$ millions)	192.5	216.4	246.6	269.7	261.3	256.6	265.0	294.1	320.2	345.5	357.0	379.4	402.0	373.0	342.6
Average annual hours worked	1,635	1,627	1,628	1,615	1,623	1,647	1,673	1,615	1,575	1,553	1,547	1,566	1,603	1,610	1,617
Average annual wages and salaries (\$)	26,009	26,599	28,423	31,033	32,556	31,988	31,591	31,203	31,654	33,428	34,007	34,872	35,738	36,352	37,455
Average hourly wage (\$)	15.91	16.35	17.46	19.22	20.06	19.42	18.88	19.33	20.10	21.53	21.98	22.26	22.29	22.58	23.16
Aircraft Mechanics and Aircraft Inspectors (H415)															
Number of jobs	3,589	4,144	4,251	4,279	3,886	4,021	4,198	4,457	4,654	4,581	4,417	4,514	4,875	4,545	4,390
Number of full-time equivalent jobs	3,515	4,061	4,160	4,185	3,790	3,920	4,091	4,333	4,512	4,434	4,273	4,376	4,742	4,404	4,259
Hours worked (millions)	7	8	9	9	8	8	8	9	9	9	9	9	10	9	9
Wages and salaries (\$ millions)	135.5	157.2	175.6	196.0	189.8	188.8	191.8	201.4	215.9	225.6	227.3	243.9	268.8	259.8	260.1
Average annual hours worked	2,048	2,000	2,022	2,024	1,974	1,963	1,934	1,988	2,003	1,987	1,966	1,990	2,010	2,019	2,038
Average annual wages and salaries (\$)	37,759	37,929	41,312	45,795	48,840	46,943	45,678	45,193	46,387	49,244	51,467	54,030	55,148	57,152	59,255
Average hourly wage (\$)	18.44	18.97	20.43	22.62	24.75	23.91	23.62	22.73	23.16	24.79	26.17	27.15	27.44	28.30	29.07
Air Transport Ramp Attendants (H737)															
Number of jobs	3,320	3,603	4,023	4,081	3,866	3,983	4,279	4,861	5,048	4,985	4,927	5,023	5,091	4,587	4,141
Number of full-time equivalent jobs	2,900	3,217	3,627	3,656	3,399	3,540	3,819	4,306	4,482	4,374	4,318	4,455	4,593	4,077	3,671
Hours worked (millions)	6	6	7	7	7	7	8	8	9	9	8	9	9	8	7
Wages and salaries (\$ millions)	90.1	102.2	116.8	130.8	127.8	125.9	131.4	145.2	154.9	165.2	169.6	180.5	189.8	174.6	163.4
Average annual hours worked	1,742	1,786	1,703	1,781	1,888	1,824	1,802	1,731	1,763	1,774	1,717	1,739	1,714	1,732	1,693
Average annual wages and salaries (\$)	27,157	28,363	29,044	32,051	33,052	31,621	30,714	29,879	30,678	33,147	34,417	35,930	37,282	38,053	39,463
Average hourly wage (\$)	15.59	15.88	17.05	17.99	17.50	17.33	17.05	17.26	17.40	18.69	20.05	20.66	21.75	21.97	23.31
All other occupations in Air Transportation															
Number of jobs	9,612	10,206	10,344	9,549	8,661	8,469	8,545	8,751	9,242	9,407	9,633	9,988	10,453	9,565	8,821
Number of full-time equivalent jobs	8,774	9,501	9,588	8,854	7,947	7,801	7,888	8,093	8,453	8,499	8,655	9,009	9,538	8,610	7,933
Hours worked (millions)	18	19	19	18	16	16	16	16	17	17	18	18	19	17	16
Wages and salaries (\$ millions)	310.5	339.6	359.1	356.4	328.5	314.4	322.7	347.3	367.6	395.5	409.6	439.1	460.4	429.0	411.7
Average annual hours worked	1,855	1,842	1,846	1,844	1,841	1,864	1,903	1,869	1,854	1,858	1,853	1,830	1,816	1,828	1,825
Average annual wages and salaries (\$)	32,300	33,274	34,718	37,322	37,924	37,119	37,770	39,682	39,777	42,045	42,516	43,960	44,045	44,855	46,666
Average hourly wage (\$)	17.41	18.07	18.81	20.24	20.60	19.91	19.85	21.23	21.45	22.63	22.95	24.02	24.25	24.54	25.57

Tourism estimates

Table A1d: Number of employee jobs, hours worked, and employment earnings, by occupation, Canada, annual percentage changes, 1988-2002

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Air Transportation (NAICS 481)															
All occupations in Air Transportation															
Number of jobs	-	8.8	2.3	-4.8	-7.9	2.8	4.9	7.5	5.7	1.4	1.7	4.3	5.6	-7.4	-7.3
Number of full-time equivalent jobs	-	10.9	1.6	-4.8	-8.8	3.2	5.2	7.0	5.4	0.1	1.3	4.7	7.1	-8.5	-7.4
Hours worked (millions)	-	7.6	2.6	-4.7	-6.5	3.6	6.3	4.6	4.8	1.0	0.8	3.6	5.7	-6.7	-6.9
Wages and salaries (\$ millions)	-	10.0	7.6	2.3	-4.0	1.0	4.2	7.2	7.3	-0.4	4.8	9.2	8.5	-5.1	-4.0
Average annual hours worked	-	-1.1	0.2	0.2	1.5	0.8	1.3	-2.7	-0.9	-0.4	-0.9	-0.7	0.1	0.8	0.4
Average annual wages and salaries (\$)	-	1.2	5.1	7.5	4.3	-1.8	-0.7	-0.3	1.5	6.5	3.0	4.7	2.8	2.5	3.6
Average hourly wage (\$)	-	2.3	4.9	7.3	2.7	-2.5	-1.9	2.5	2.4	7.0	3.9	5.4	2.7	1.7	3.2
Management occupations (A)															
Number of jobs	-	5.4	-3.2	-13.3	-4.6	1.0	0.5	-4.1	4.6	6.2	7.5	11.5	7.8	-4.0	-5.5
Number of full-time equivalent jobs	-	6.4	-3.4	-12.9	-4.5	1.4	0.8	-4.1	4.4	5.5	7.0	11.4	7.6	-4.2	-5.4
Hours worked (millions)	-	0.9	-1.9	-12.2	0.4	2.1	1.1	-6.1	4.9	5.0	5.4	4.7	12.9	-4.4	-1.0
Wages and salaries (\$ millions)	-	2.8	-1.4	-7.6	0.1	5.7	4.1	-1.2	1.2	8.9	6.7	13.7	11.9	-4.2	-1.3
Average annual hours worked	-	-4.2	1.3	1.3	5.3	1.1	0.6	-2.1	0.2	-1.2	-1.9	-6.1	4.7	-0.4	4.7
Average annual wages and salaries (\$)	-	-2.5	1.9	6.5	5.0	4.7	3.5	3.0	-3.3	2.5	-0.7	2.0	3.8	-0.1	4.4
Average hourly wage (\$)	-	1.8	0.5	5.2	-0.3	3.6	3.0	5.2	-3.5	3.7	1.2	8.6	-0.9	0.2	-0.3
Business, Finance and Administrative Occupations (B)															
Number of jobs	-	4.4	-2.9	-11.6	-5.7	6.4	2.0	-1.3	-1.8	-0.5	0.2	2.9	5.0	-7.2	-6.8
Number of full-time equivalent jobs	-	6.4	-3.5	-11.4	-6.4	6.5	2.2	-1.8	-2.1	-1.8	-0.4	3.1	6.1	-8.4	-6.9
Hours worked (millions)	-	5.9	-2.3	-11.9	-5.2	7.8	5.1	-3.8	-1.9	0.0	-0.5	1.8	4.7	-6.8	-6.5
Wages and salaries (\$ millions)	-	3.2	-1.5	-8.1	-0.8	5.4	3.4	-1.3	-0.7	6.4	-0.7	9.8	9.1	-3.4	-3.4
Average annual hours worked	-	1.5	0.6	-0.3	0.6	1.4	3.1	-2.5	-0.1	0.5	-0.7	-1.0	-0.2	0.4	0.3
Average annual wages and salaries (\$)	-	-1.2	1.5	4.0	5.2	-0.9	1.4	0.1	1.1	6.9	3.8	6.8	3.9	4.1	3.7
Average hourly wage (\$)	-	-2.6	0.9	4.3	4.6	-2.3	-1.6	2.6	1.2	6.4	4.5	7.9	4.2	3.7	3.4
Air Pilots, Flight Engineers and Flying Instructors (C171)															
Number of jobs	-	11.3	2.8	-2.5	-8.5	6.2	9.2	8.6	5.2	-0.9	3.8	7.3	7.1	-6.3	-4.7
Number of full-time equivalent jobs	-	12.6	2.3	-2.4	-8.5	6.1	9.5	8.7	4.9	-1.4	3.8	7.8	8.0	-6.9	-4.7
Hours worked (millions)	-	8.7	4.3	-1.4	-5.4	8.8	13.2	6.6	6.4	0.1	3.6	4.1	3.0	-4.4	-6.0
Wages and salaries (\$ millions)	-	11.7	10.1	3.9	-4.3	1.4	5.6	6.8	9.2	8.8	7.7	12.8	9.9	-3.4	-2.6
Average annual hours worked	-	-2.3	1.5	1.2	3.4	2.4	3.6	-1.8	1.2	1.0	-0.2	-3.0	-3.8	2.0	-1.4
Average annual wages and salaries (\$)	-	0.4	7.0	6.6	4.5	-4.5	-3.3	-1.6	3.8	9.8	3.7	5.1	2.7	3.1	2.1
Average hourly wage (\$)	-	2.7	5.5	5.3	1.1	-6.8	-6.7	0.2	2.6	8.7	3.9	8.3	6.7	1.0	3.6
Pursers and Flight Attendants (G712)															
Number of jobs	-	12.4	1.9	-4.5	-10.0	7.1	10.3	16.8	12.7	4.8	2.7	3.7	8.2	-6.5	-7.1
Number of full-time equivalent jobs	-	15.7	0.2	-3.8	-11.1	8.1	11.0	16.5	12.2	2.7	1.6	3.5	9.7	-8.0	-7.6
Hours worked (millions)	-	9.4	3.7	-4.9	-8.9	9.5	12.2	13.5	9.0	3.3	1.7	4.0	9.4	-5.7	-6.5
Wages and salaries (\$ millions)	-	14.9	10.3	2.1	-5.8	6.9	7.8	16.6	14.5	10.8	5.5	7.2	10.6	-5.6	-6.0
Average annual hours worked	-	-2.6	1.8	-0.4	1.3	2.2	1.7	-2.8	-3.3	-1.5	-1.0	0.3	1.0	0.8	0.6
Average annual wages and salaries (\$)	-	2.2	8.3	6.9	4.7	-0.2	-2.2	-0.1	1.6	5.7	2.7	3.4	2.1	0.9	1.2
Average hourly wage (\$)	-	5.0	6.3	7.4	3.4	-2.3	-3.9	2.7	5.0	7.3	3.8	3.1	1.1	0.1	0.6

Tourism estimates

Table A1d: Number of employee jobs, hours worked, and employment earnings, by occupation, Canada, annual percentage changes, 1988-2002

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Air Transportation (NAICS 481)															
Airline Sales and Service Agents (G713)															
Number of jobs	-	9.9	6.6	0.2	-7.7	0.0	4.6	12.4	7.3	2.2	1.6	3.7	3.4	-8.8	-10.9
Number of full-time equivalent jobs	-	13.7	5.0	0.1	-9.7	0.0	4.8	11.0	7.9	0.5	1.3	4.7	6.4	-10.7	-11.6
Hours worked (millions)	-	9.4	6.7	-0.6	-7.2	1.4	6.2	8.5	4.7	0.8	1.2	4.9	5.8	-8.4	-10.5
Wages and salaries (\$ millions)	-	12.4	13.9	9.4	-3.1	-1.8	3.3	11.0	8.9	7.9	3.3	6.3	5.9	-7.2	-8.2
Average annual hours worked	-	-0.5	0.1	-0.8	0.5	1.5	1.6	-3.5	-2.5	-1.4	-0.4	1.2	2.3	0.4	0.5
Average annual wages and salaries (\$)	-	2.3	6.9	9.2	4.9	-1.7	-1.2	-1.2	1.4	5.6	1.7	2.5	2.5	1.7	3.0
Average hourly wage (\$)	-	2.8	6.8	10.1	4.4	-3.2	-2.8	2.3	4.0	7.1	2.1	1.3	0.1	1.3	2.6
Aircraft Mechanics and Aircraft Inspectors (H415)															
Number of jobs	-	15.5	2.6	0.7	-9.2	3.5	4.4	6.2	4.4	-1.6	-3.6	2.2	8.0	-6.8	-3.4
Number of full-time equivalent jobs	-	15.5	2.4	0.6	-9.4	3.4	4.4	5.9	4.2	-1.7	-3.6	2.4	8.4	-7.1	-3.3
Hours worked (millions)	-	12.7	3.7	0.8	-11.5	2.9	2.9	9.1	5.2	-2.4	-4.6	3.4	9.1	-6.3	-2.5
Wages and salaries (\$ millions)	-	16.0	11.7	11.6	-3.1	-0.5	1.6	5.0	7.2	4.5	0.8	7.3	10.2	-3.4	0.1
Average annual hours worked	-	-2.4	1.1	0.1	-2.5	-0.5	-1.5	2.8	0.7	-0.8	-1.0	1.2	1.0	0.5	0.9
Average annual wages and salaries (\$)	-	0.5	8.9	10.9	6.6	-3.9	-2.7	-1.1	2.6	6.2	4.5	5.0	2.1	3.6	3.7
Average hourly wage (\$)	-	2.9	7.7	10.7	9.4	-3.4	-1.2	-3.7	1.9	7.0	5.6	3.7	1.1	3.2	2.7
Air Transport Ramp Attendants (H737)															
Number of jobs	-	8.5	11.7	1.4	-5.3	3.0	7.4	13.6	3.8	-1.3	-1.2	1.9	1.4	-9.9	-9.7
Number of full-time equivalent jobs	-	10.9	12.8	0.8	-7.0	4.2	7.9	12.7	4.1	-2.4	-1.3	3.2	3.1	-11.2	-10.0
Hours worked (millions)	-	11.3	6.5	6.1	0.4	-0.5	6.1	9.2	5.7	-0.6	-4.3	3.3	-0.1	-9.0	-11.8
Wages and salaries (\$ millions)	-	13.3	14.3	11.9	-2.3	-1.4	4.4	10.5	6.6	6.7	2.6	6.4	5.2	-8.0	-6.4
Average annual hours worked	-	2.5	-4.6	4.6	6.0	-3.4	-1.2	-3.9	1.8	0.6	-3.2	1.3	-1.5	1.0	-2.2
Average annual wages and salaries (\$)	-	4.4	2.4	10.4	3.1	-4.3	-2.9	-2.7	2.7	8.0	3.8	4.4	3.8	2.1	3.7
Average hourly wage (\$)	-	1.9	7.4	5.5	-2.7	-1.0	-1.7	-1.2	0.9	7.4	7.3	3.0	5.3	1.0	6.1
All other occupations in Air Transportation															
Number of jobs	-	6.2	1.3	-7.7	-9.3	-2.2	0.9	2.4	5.6	1.8	2.4	3.7	4.7	-8.5	-7.8
Number of full-time equivalent jobs	-	8.3	0.9	-7.7	-10.2	-1.8	1.1	2.6	4.4	0.5	1.8	4.1	5.9	-9.7	-7.9
Hours worked (millions)	-	5.4	1.6	-7.8	-9.4	-1.0	3.0	0.6	4.8	2.0	2.1	2.4	3.8	-7.9	-7.9
Wages and salaries (\$ millions)	-	9.4	5.7	-0.8	-7.8	-4.3	2.7	7.6	5.9	7.6	3.6	7.2	4.9	-6.8	-4.1
Average annual hours worked	-	-0.7	0.2	-0.1	-0.2	1.3	2.1	-1.8	-0.8	0.2	-0.3	-1.2	-0.8	0.6	-0.1
Average annual wages and salaries (\$)	-	3.0	4.3	7.5	1.6	-2.1	1.8	5.1	0.2	5.7	1.1	3.4	0.2	1.8	4.0
Average hourly wage (\$)	-	3.8	4.1	7.6	1.8	-3.3	-0.3	7.0	1.0	5.5	1.4	4.7	1.0	1.2	4.2

Tourism estimates

Table A1e: Number of full-time employee, hours worked, and employment earnings, by occupation, Canada, 1988-2002

Air Transportation (NAICS 481)	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
All occupations in Air Transportation															
Number of jobs	36,956	40,875	41,552	39,660	36,418	37,784	39,956	42,290	44,129	44,064	44,711	47,472	50,839	46,135	43,795
Hours worked (millions)	71	77	79	75	71	74	79	81	85	85	86	90	95	88	84
Wages and salaries (\$ millions)	1,468.6	1,608.8	1,732.3	1,784.4	1,727.1	1,746.8	1,830.3	1,943.5	2,068.3	2,229.1	2,340.6	2,587.1	2,813.1	2,650.2	2,603.4
Average annual hours worked	1,934	1,875	1,893	1,895	1,941	1,949	1,968	1,925	1,917	1,933	1,925	1,900	1,876	1,915	1,924
Average annual wages and salaries (\$)	39,740	39,359	41,689	44,991	47,423	46,232	45,807	45,957	46,870	50,589	52,349	54,498	55,334	57,445	59,446
Average hourly wage (\$)	20.55	20.99	22.02	23.74	24.43	23.73	23.28	23.87	24.45	26.17	27.20	28.68	29.49	30.00	30.90
Management occupations (A)															
Number of jobs	2,987	3,167	3,060	2,676	2,572	2,613	2,644	2,541	2,647	2,778	2,961	3,295	3,535	3,379	3,219
Hours worked (millions)	7	7	7	6	6	6	6	6	6	7	7	7	8	8	8
Wages and salaries (\$ millions)	176	180	178	165	167	177	185	183	185	201	215	245	274	262	260
Average annual hours worked	2,373	2,252	2,288	2,308	2,426	2,443	2,449	2,398	2,408	2,397	2,363	2,221	2,331	2,327	2,434
Average annual wages and salaries (\$)	58,951	56,958	58,201	61,762	64,785	67,631	69,881	71,955	69,781	72,399	72,574	74,366	77,616	77,670	80,844
Average hourly wage (\$)	24.85	25.29	25.44	26.76	26.70	27.68	28.53	30.00	28.97	30.20	30.72	33.48	33.30	33.38	33.21
Business, Finance and Administrative Occupations (B)															
Number of jobs	6,200	6,574	6,352	5,618	5,260	5,615	5,749	5,590	5,413	5,298	5,279	5,507	5,840	5,305	5,053
Hours worked (millions)	12	13	12	11	12	11	12	11	11	11	11	11	11	11	10
Wages and salaries (\$ millions)	192	197	194	179	179	188	196	192	188	199	206	227	246	236	234
Average annual hours worked	1,910	1,902	1,925	1,914	1,938	1,962	2,019	1,979	1,982	2,019	2,018	1,992	1,967	2,000	2,006
Average annual wages and salaries (\$)	30,978	29,931	30,584	31,844	34,045	33,563	34,019	34,358	34,757	37,489	38,949	41,251	42,179	44,419	46,235
Average hourly wage (\$)	16.22	15.73	15.89	16.64	17.57	17.11	16.85	17.36	17.53	18.57	19.30	20.71	21.44	22.21	23.05
Air Pilots, Flight Engineers and Flying Instructors (C171)															
Number of jobs	4,966	5,587	5,725	5,614	5,145	5,508	6,061	6,556	6,872	6,780	7,057	7,667	8,289	7,688	7,404
Hours worked (millions)	9	10	10	10	10	10	12	13	13	14	14	15	15	14	14
Wages and salaries (\$ millions)	319	356	393	414	400	409	436	463	507	552	596	679	749	719	709
Average annual hours worked	1,806	1,743	1,778	1,797	1,860	1,906	1,970	1,932	1,961	1,991	1,988	1,921	1,833	1,882	1,857
Average annual wages and salaries (\$)	64,197	63,793	68,696	73,819	77,819	74,192	71,855	70,872	73,726	81,384	84,494	88,540	90,361	93,586	95,754
Average hourly wage (\$)	35.55	36.59	38.64	41.08	41.85	38.93	36.47	36.58	37.59	40.87	42.50	46.09	49.29	49.73	51.56
Pursers and Flight Attendants (G712)															
Number of jobs	4,501	5,211	5,238	5,093	4,608	5,034	5,657	6,556	7,214	7,350	7,456	7,840	8,569	7,779	7,453
Hours worked (millions)	7	7	8	7	7	8	9	10	10	11	11	11	12	12	11
Wages and salaries (\$ millions)	135	152	169	177	171	186	205	238	266	290	304	330	362	336	331
Average annual hours worked	1,495	1,414	1,463	1,447	1,483	1,501	1,516	1,478	1,436	1,444	1,446	1,453	1,449	1,485	1,503
Average annual wages and salaries (\$)	30,001	29,245	32,261	34,846	37,079	36,970	36,192	36,315	36,909	39,515	40,773	42,076	42,283	43,195	44,354
Average hourly wage (\$)	20.06	20.69	22.05	24.08	25.00	24.62	23.87	24.58	25.70	27.36	28.20	28.96	29.19	29.08	29.51
Airline Sales and Service Agents (G713)															
Number of jobs	4,527	5,146	5,427	5,447	4,959	5,003	5,288	5,766	6,145	6,215	6,400	6,962	7,489	6,582	6,094
Hours worked (millions)	9	10	10	10	10	10	10	11	12	12	12	13	14	13	12
Wages and salaries (\$ millions)	144	162	185	204	199	193	200	216	233	254	267	295	316	288	277

Tourism estimates

Table A1e: Number of full-time employee, hours worked, and employment earnings, by occupation, Canada, 1988-2002

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Air Transportation (NAICS 481)															
Average annual hours worked	1,928	1,855	1,886	1,872	1,925	1,953	1,979	1,934	1,875	1,880	1,877	1,881	1,869	1,917	1,941
Average annual wages and salaries (\$)	31,717	31,403	34,120	37,524	40,093	38,581	37,791	37,525	37,969	40,869	41,743	42,303	42,259	43,804	45,440
Average hourly wage (\$)	16.45	16.92	18.09	20.04	20.83	19.76	19.10	19.41	20.25	21.74	22.24	22.50	22.61	22.85	23.41
Aircraft Mechanics and Aircraft Inspectors (H415)															
Number of jobs	3,447	3,993	4,092	4,112	3,721	3,848	4,015	4,240	4,408	4,327	4,169	4,279	4,636	4,299	4,176
Hours worked (millions)	7	8	8	9	8	8	8	9	9	9	8	9	10	9	9
Wages and salaries (\$ millions)	134	156	174	194	188	186	189	198	212	222	223	240	264	255	256
Average annual hours worked	2,091	2,041	2,066	2,070	2,024	2,014	1,985	2,045	2,066	2,053	2,033	2,053	2,066	2,084	2,101
Average annual wages and salaries (\$)	38,927	38,978	42,510	47,150	50,444	48,451	47,130	46,772	48,135	51,207	53,554	56,063	57,014	59,328	61,406
Average hourly wage (\$)	18.61	19.10	20.58	22.78	24.93	24.06	23.74	22.87	23.30	24.95	26.34	27.31	27.59	28.47	29.23
Air Transport Ramp Attendants (H737)															
Number of jobs	2,550	2,802	3,153	3,146	2,928	3,013	3,241	3,590	3,703	3,625	3,613	3,805	3,963	3,483	3,225
Hours worked (millions)	5	6	6	6	6	6	7	7	7	7	7	7	8	7	6
Wages and salaries (\$ millions)	82	92	106	117	115	112	116	126	134	143	148	160	169	154	148
Average annual hours worked	1,993	2,000	1,889	1,988	2,148	2,052	2,019	1,955	1,985	2,021	1,959	1,961	1,900	1,948	1,910
Average annual wages and salaries (\$)	32,147	32,921	33,525	37,289	39,166	37,131	35,895	35,230	36,164	39,497	40,940	42,109	42,702	44,263	45,917
Average hourly wage (\$)	16.13	16.46	17.75	18.76	18.24	18.09	17.78	18.02	18.22	19.54	20.90	21.48	22.47	22.72	24.04
All other occupations in Air Transportation															
Number of jobs	7,778	8,395	8,505	7,955	7,225	7,150	7,301	7,451	7,727	7,691	7,777	8,116	8,516	7,621	7,172
Hours worked (millions)	16	17	17	16	14	14	15	15	16	16	16	16	17	15	15
Wages and salaries (\$ millions)	287	313	333	333	309	296	304	326	343	368	382	412	431	399	389
Average annual hours worked	2,032	1,979	1,992	1,989	2,007	2,024	2,062	2,021	2,027	2,057	2,062	2,029	1,991	2,031	2,030
Average annual wages and salaries (\$)	36,885	37,328	39,134	41,829	42,754	41,342	41,674	43,759	44,409	47,901	49,058	50,706	50,608	52,374	54,193
Average hourly wage (\$)	18.15	18.87	19.65	21.03	21.31	20.43	20.22	21.65	21.90	23.29	23.79	24.98	25.42	25.79	26.70

Tourism estimates

Table A1f: Number of full-time employee, hours worked, and employment earnings, by occupation, Canada, annual percentage changes, 1988-2002

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Air Transportation (NAICS 481)															
All occupations in Air Transportation															
Number of jobs	-	10.6	1.7	-4.6	-8.2	3.7	5.8	5.8	4.4	-0.1	1.5	6.2	7.1	-9.3	-5.1
Hours worked (millions)	-	7.3	2.6	-4.4	-6.0	4.1	6.8	3.5	3.9	0.7	1.0	4.8	5.7	-7.4	-4.6
Wages and salaries (\$ millions)	-	9.5	7.7	3.0	-3.2	1.1	4.8	6.2	6.4	7.8	5.0	10.5	8.7	-5.8	-1.8
Average annual hours worked	-	-3.0	0.9	0.1	2.4	0.4	1.0	-2.2	-0.4	0.9	-0.4	-1.3	-1.3	2.0	0.5
Average annual wages and salaries (\$)	-	-1.0	5.9	7.9	5.4	-2.5	-0.9	0.3	2.0	7.9	3.5	4.1	1.5	3.8	3.5
Average hourly wage (\$)	-	2.1	4.9	7.8	2.9	-2.9	-1.9	2.6	2.4	7.0	3.9	5.4	2.8	1.8	3.0
Management occupations (A)															
Number of jobs	-	6.0	-3.4	-12.6	-3.9	1.6	1.2	-3.9	4.2	5.0	6.6	11.3	7.3	-4.4	-4.7
Hours worked (millions)	-	0.6	-1.8	-11.8	1.1	2.3	1.4	-5.9	4.6	4.5	5.0	4.6	12.6	-4.6	-0.3
Wages and salaries (\$ millions)	-	2.4	-1.3	-7.2	0.8	6.0	4.6	-1.1	1.0	8.9	6.8	14.0	12.0	-4.3	-0.9
Average annual hours worked	-	-5.1	1.6	0.9	5.1	0.7	0.2	-2.1	0.4	-0.5	-1.4	-6.0	4.9	-0.2	4.6
Average annual wages and salaries (\$)	-	-3.4	2.2	6.1	4.9	4.4	3.3	3.0	-3.0	3.8	0.2	2.5	4.4	0.1	4.1
Average hourly wage (\$)	-	1.8	0.6	5.2	-0.2	3.7	3.1	5.2	-3.4	4.3	1.7	9.0	-0.5	0.2	-0.5
Business, Finance and Administrative Occupations (B)															
Number of jobs	-	6.0	-3.4	-11.6	-6.4	6.8	2.4	-2.8	-3.2	-2.1	-0.4	4.3	6.1	-9.2	-4.7
Hours worked (millions)	-	5.6	-2.2	-12.0	-5.2	8.1	5.4	-4.7	-3.0	-0.3	-0.4	3.0	4.7	-7.7	-4.4
Wages and salaries (\$ millions)	-	2.4	-1.3	-7.9	0.1	5.3	3.8	-1.8	-2.0	5.6	3.5	10.5	8.4	-4.3	-0.9
Average annual hours worked	-	-0.4	1.2	-0.5	1.2	1.2	2.9	-2.0	0.2	1.9	-0.1	-1.3	-1.2	1.7	0.3
Average annual wages and salaries (\$)	-	-3.4	2.2	4.1	6.9	-1.4	1.4	1.0	1.2	7.9	3.9	5.9	2.2	5.3	4.1
Average hourly wage (\$)	-	-3.0	1.0	4.7	5.6	-2.6	-1.5	3.0	1.0	5.9	4.0	7.3	3.5	3.6	3.7
Air Pilots, Flight Engineers and Flying Instructors (C171)															
Number of jobs	-	12.5	2.5	-1.9	-8.4	7.1	10.0	8.2	4.8	-1.3	4.1	8.6	8.1	-7.3	-3.7
Hours worked (millions)	-	8.6	4.5	-0.9	-5.2	9.7	13.8	6.1	6.4	0.2	3.9	5.0	3.2	-4.8	-5.0
Wages and salaries (\$ millions)	-	11.8	10.3	5.4	-3.4	2.1	6.6	6.4	9.3	8.9	8.1	13.8	10.3	-3.9	-1.5
Average annual hours worked	-	-3.4	2.0	1.1	3.5	2.5	3.4	-1.9	1.5	1.5	-0.2	-3.4	-4.6	2.6	-1.3
Average annual wages and salaries (\$)	-	-0.6	7.7	7.5	5.4	-4.7	-3.1	-1.6	4.3	10.4	3.8	4.8	2.1	3.6	2.3
Average hourly wage (\$)	-	2.9	5.6	6.3	1.9	-7.0	-6.3	0.3	2.8	8.7	4.0	8.4	6.9	0.9	3.7
Pursers and Flight Attendants (G712)															
Number of jobs	-	15.8	0.5	-2.8	-9.5	9.2	12.4	15.9	10.0	1.9	1.4	5.2	9.3	-9.2	-4.2
Hours worked (millions)	-	9.5	4.1	-3.8	-7.3	10.6	13.5	12.9	7.0	2.5	1.5	5.7	9.0	-6.9	-3.1
Wages and salaries (\$ millions)	-	12.9	10.9	5.0	-3.7	8.9	10.0	16.3	11.8	9.1	4.7	8.5	9.8	-7.3	-1.6
Average annual hours worked	-	-5.4	3.5	-1.1	2.5	1.2	1.0	-2.6	-2.8	0.6	0.1	0.5	-0.3	2.5	1.2
Average annual wages and salaries (\$)	-	-2.5	10.3	8.0	6.4	-0.3	-2.1	0.3	1.6	7.1	3.2	3.2	0.5	2.2	2.7
Average hourly wage (\$)	-	3.1	6.6	9.2	3.9	-1.5	-3.1	3.0	4.6	6.5	3.1	2.7	0.8	-0.4	1.5
Airline Sales and Service Agents (G713)															
Number of jobs	-	13.7	5.5	0.4	-9.0	0.9	5.7	9.0	6.6	1.1	3.0	8.8	7.6	-12.1	-7.4
Hours worked (millions)	-	9.4	7.2	-0.4	-6.4	2.3	7.1	6.5	3.3	1.4	2.8	9.0	6.9	-9.9	-6.3
Wages and salaries (\$ millions)	-	12.5	14.6	10.4	-2.7	-2.9	3.5	8.3	7.8	8.9	5.2	10.2	7.5	-8.9	-4.0

Tourism estimates

Table A1f: Number of full-time employee, hours worked, and employment earnings, by occupation, Canada, annual percentage changes, 1988-2002

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Air Transportation (NAICS 481)															
Average annual hours worked	-	-3.8	1.7	-0.7	2.8	1.4	1.4	-2.3	-3.0	0.3	-0.1	0.2	-0.6	2.6	1.3
Average annual wages and salaries (\$)	-	-1.0	8.7	10.0	6.8	-3.8	-2.0	-0.7	1.2	7.6	2.1	1.3	-0.1	3.7	3.7
Average hourly wage (\$)	-	2.9	6.9	10.8	3.9	-5.1	-3.4	1.6	4.4	7.4	2.3	1.1	0.5	1.1	2.5
Aircraft Mechanics and Aircraft Inspectors (H415)															
Number of jobs	-	15.8	2.5	0.5	-9.5	3.4	4.4	5.6	4.0	-1.8	-3.6	2.6	8.3	-7.3	-2.9
Hours worked (millions)	-	13.0	3.7	0.7	-11.5	2.9	2.9	8.8	5.0	-2.5	-4.6	3.6	9.0	-6.5	-2.1
Wages and salaries (\$ millions)	-	16.0	11.8	11.4	-3.2	-0.7	1.5	4.8	7.0	4.4	0.8	7.4	10.2	-3.5	0.5
Average annual hours worked	-	-2.4	1.2	0.2	-2.2	-0.5	-1.4	3.0	1.0	-0.6	-0.9	1.0	0.6	0.8	0.8
Average annual wages and salaries (\$)	-	0.1	9.1	10.9	7.0	-4.0	-2.7	-0.8	2.9	6.4	4.6	4.7	1.7	4.1	3.5
Average hourly wage (\$)	-	2.6	7.7	10.7	9.4	-3.5	-1.3	-3.7	1.9	7.1	5.6	3.7	1.1	3.2	2.7
Air Transport Ramp Attendants (H737)															
Number of jobs	-	9.9	12.5	-0.2	-6.9	2.9	7.6	10.8	3.1	-2.1	-0.3	5.3	4.2	-12.1	-7.4
Hours worked (millions)	-	10.3	6.3	5.0	0.5	-1.7	5.8	7.2	4.8	-0.3	-3.4	5.4	0.9	-9.9	-9.2
Wages and salaries (\$ millions)	-	12.5	14.6	11.0	-2.2	-2.5	4.0	8.7	5.9	6.9	3.3	8.3	5.6	-8.9	-4.0
Average annual hours worked	-	0.3	-5.6	5.3	8.0	-4.4	-1.6	-3.2	1.6	1.8	-3.1	0.1	-3.1	2.5	-2.0
Average annual wages and salaries (\$)	-	2.4	1.8	11.2	5.0	-5.2	-3.3	-1.9	2.7	9.2	3.7	2.9	1.4	3.7	3.7
Average hourly wage (\$)	-	2.1	7.8	5.7	-2.8	-0.8	-1.7	1.4	1.1	7.3	7.0	2.8	4.7	1.1	5.8
All other occupations in Air Transportation															
Number of jobs	-	7.9	1.3	-6.5	-9.2	-1.0	2.1	2.1	3.7	-0.5	1.1	4.4	4.9	-10.5	-5.9
Hours worked (millions)	-	5.1	2.0	-6.6	-8.4	-0.2	4.0	0.0	4.0	1.0	1.4	2.7	2.9	-8.7	-5.9
Wages and salaries (\$ millions)	-	9.2	6.2	0.0	-7.2	-4.3	2.9	7.2	5.2	7.4	3.6	7.9	4.7	-7.4	-2.6
Average annual hours worked	-	-2.6	0.7	-0.1	0.9	0.9	1.9	-2.0	0.3	1.4	0.3	-1.6	-1.9	2.0	0.0
Average annual wages and salaries (\$)	-	1.2	4.8	6.9	2.2	-3.3	0.8	5.0	1.5	7.9	2.4	3.4	-0.2	3.5	3.5
Average hourly wage (\$)	-	4.0	4.1	7.0	1.3	-4.1	-1.0	7.1	1.2	6.3	2.1	5.0	1.8	1.5	3.5

Tourism estimates

Table A1g: Number of part-time employee, hours worked, and employment earnings, by occupation, Canada, 1988-2002

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Air Transportation (NAICS 481)															
All occupations in Air Transportation															
Number of jobs	9,743	9,920	10,423	9,807	9,138	9,067	9,209	10,566	11,761	12,615	12,931	12,625	12,626	12,620	10,673
Hours worked (millions)	10	11	12	11	10	10	10	11	12	13	13	12	13	13	10
Wages and salaries (\$ millions)	190	216	231	224	201	201	200	232	266	293	302	297	318	322	251
Average annual hours worked	1,056	1,137	1,106	1,101	1,056	1,064	1,074	1,057	1,054	1,011	981	954	1,005	992	901
Average annual wages and salaries (\$)	19,464	21,775	22,133	22,794	21,994	22,176	21,716	21,950	22,622	23,204	23,330	23,565	25,185	25,530	23,563
Average hourly wage (\$)	18.42	19.15	20.01	20.71	20.83	20.84	20.22	20.77	21.46	22.96	23.79	24.70	25.06	25.73	26.15
Management occupations (A)															
Number of jobs	230	223	222	170	142	129	112	101	117	158	195	223	257	260	222
Hours worked (millions)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wages and salaries (\$ millions)	8	9	8	7	6	6	5	5	5	5	5	5	6	6	5
Average annual hours worked	1,142	1,287	1,248	1,271	1,236	1,285	1,287	1,197	1,209	1,149	1,111	1,038	1,115	1,117	1,057
Average annual wages and salaries (\$)	34,015	38,752	37,588	40,941	40,731	43,334	44,178	44,504	41,251	32,958	27,197	23,553	22,177	22,808	20,755
Average hourly wage (\$)	29.79	30.11	30.13	32.22	32.96	33.72	34.33	37.19	34.11	28.68	24.48	22.69	19.89	20.42	19.64
Business, Finance and Administrative Occupations (B)															
Number of jobs	1,345	1,305	1,299	1,145	1,116	1,166	1,165	1,233	1,288	1,373	1,402	1,366	1,374	1,390	1,186
Hours worked (millions)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Wages and salaries (\$ millions)	19	21	20	18	16	18	17	18	21	24	25	27	30	32	25
Average annual hours worked	963	1,085	1,055	1,068	1,042	1,050	1,083	1,072	1,097	1,055	1,021	976	1,017	1,005	912
Average annual wages and salaries (\$)	14,082	16,043	15,561	15,898	14,741	15,040	14,956	14,811	16,029	17,133	18,079	19,413	22,163	22,794	20,742
Average hourly wage (\$)	14.62	14.79	14.74	14.89	14.15	14.33	13.81	13.81	14.61	16.24	17.71	19.90	21.80	22.68	22.75
Air Pilots, Flight Engineers and Flying Instructors (C171)															
Number of jobs	732	753	795	740	672	671	687	771	835	858	873	844	823	850	733
Hours worked (millions)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Wages and salaries (\$ millions)	40	45	48	44	38	36	34	39	41	45	46	46	47	50	40
Average annual hours worked	1,066	1,138	1,107	1,104	1,121	1,088	1,114	1,136	1,123	1,088	1,063	1,007	1,036	1,025	915
Average annual wages and salaries (\$)	55,112	59,259	60,574	59,596	57,221	54,301	50,035	50,175	49,651	52,150	52,942	54,300	57,652	58,357	54,196
Average hourly wage (\$)	51.69	52.08	54.71	53.99	51.06	49.91	44.90	44.18	44.20	47.93	49.78	53.93	55.67	56.91	59.25
Pursers and Flight Attendants (G712)															
Number of jobs	1,814	1,886	1,990	1,810	1,605	1,620	1,681	2,012	2,446	2,776	2,946	2,949	3,110	3,145	2,699
Hours worked (millions)	2	2	2	2	1	2	2	2	2	2	2	2	3	3	2
Wages and salaries (\$ millions)	40	49	53	50	43	43	42	50	63	75	81	83	94	95	75
Average annual hours worked	947	995	966	966	922	952	968	941	926	873	840	813	859	849	777
Average annual wages and salaries (\$)	22,314	26,130	26,857	27,455	26,890	26,393	25,001	24,665	25,828	26,867	27,574	28,224	30,363	30,282	27,726
Average hourly wage (\$)	23.57	26.26	27.80	28.41	29.16	27.73	25.83	26.20	27.89	30.79	32.81	34.71	35.37	35.66	35.69
Airline Sales and Service Agents (G713)															
Number of jobs	2,875	2,990	3,248	3,245	3,067	3,018	3,099	3,660	3,969	4,121	4,097	3,918	3,759	3,680	3,053
Hours worked (millions)	3	4	4	4	3	3	4	4	4	4	4	4	4	4	3
Wages and salaries (\$ millions)	49	55	61	65	62	64	65	78	87	92	90	85	85	85	66

Tourism estimates

Table A1g: Number of part-time employee, hours worked, and employment earnings, by occupation, Canada, 1988-2002

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Air Transportation (NAICS 481)															
Average annual hours worked	1,172	1,233	1,196	1,182	1,135	1,140	1,151	1,112	1,110	1,060	1,032	1,008	1,073	1,061	971
Average annual wages and salaries (\$)	17,020	18,329	18,904	20,137	20,369	21,060	21,012	21,242	21,877	22,205	21,922	21,669	22,745	23,024	21,514
Average hourly wage (\$)	14.52	14.86	15.80	17.04	17.94	18.47	18.26	19.11	19.71	20.96	21.24	21.49	21.20	21.69	22.15
Aircraft Mechanics and Aircraft Inspectors (H415)															
Number of jobs	142	151	159	167	165	173	183	217	246	254	248	235	238	246	214
Hours worked (millions)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wages and salaries (\$ millions)	1	2	2	2	2	2	3	3	4	4	4	4	4	5	4
Average annual hours worked	997	912	881	901	842	841	823	873	878	867	846	843	919	894	815
Average annual wages and salaries (\$)	9,484	10,175	10,533	12,533	12,607	13,501	13,812	14,354	15,069	15,831	16,404	16,993	18,842	19,147	17,325
Average hourly wage (\$)	9.51	11.15	11.95	13.91	14.98	16.04	16.79	16.44	17.16	18.27	19.38	20.16	20.50	21.41	21.26
Air Transport Ramp Attendants (H737)															
Number of jobs	770	801	870	934	937	969	1,038	1,272	1,345	1,360	1,314	1,217	1,128	1,104	916
Hours worked (millions)	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1
Wages and salaries (\$ millions)	8	10	11	13	13	14	15	19	21	22	22	20	21	20	15
Average annual hours worked	908	1,036	1,030	1,085	1,078	1,116	1,124	1,101	1,150	1,113	1,051	1,047	1,060	1,049	929
Average annual wages and salaries (\$)	10,630	12,410	12,800	14,417	13,946	14,497	14,540	14,771	15,580	16,229	16,480	16,618	18,241	18,465	16,746
Average hourly wage (\$)	11.71	11.98	12.43	13.28	12.93	12.99	12.94	13.42	13.55	14.58	15.68	15.87	17.21	17.61	18.02
All other occupations in Air Transportation															
Number of jobs	1,834	1,811	1,839	1,595	1,436	1,320	1,244	1,300	1,515	1,716	1,856	1,872	1,937	1,944	1,649
Hours worked (millions)	2	2	2	2	1	1	1	1	1	2	2	2	2	2	2
Wages and salaries (\$ millions)	24	26	26	24	20	19	19	21	24	27	28	28	29	30	23
Average annual hours worked	1,104	1,208	1,173	1,122	1,008	999	973	999	972	968	975	967	1,050	1,033	936
Average annual wages and salaries (\$)	12,857	14,481	14,298	14,834	13,615	14,238	14,866	16,316	16,154	15,794	15,106	14,711	15,190	15,377	13,923
Average hourly wage (\$)	11.65	11.99	12.19	13.22	13.50	14.25	15.27	16.34	16.62	16.31	15.49	15.21	14.47	14.88	14.88

Tourism estimates

Table A1h: Number of part-time employee, hours worked, and employment earnings, by occupation, Canada, annual percentage changes, 1988-2002

Air Transportation (NAICS 481)	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
All occupations in Air Transportation															
Number of jobs	-	1.8	5.1	-5.9	-6.8	-0.8	1.6	14.7	11.3	7.3	2.5	-2.4	0.0	-0.1	-15.4
Hours worked (millions)	-	9.6	2.2	-6.4	-10.6	0.0	2.5	12.9	11.0	2.8	-0.5	-5.0	5.3	-1.3	-23.2
Wages and salaries (\$ millions)	-	13.9	6.8	-3.1	-10.1	0.0	-0.5	16.0	14.7	10.0	3.1	-1.4	6.9	1.3	-21.9
Average annual hours worked	-	7.6	-2.7	-0.5	-4.1	0.8	0.9	-1.6	-0.3	-4.1	-2.9	-2.7	5.3	-1.2	-9.2
Average annual wages and salaries (\$)	-	11.9	1.6	3.0	-3.5	0.8	-2.1	1.1	3.1	2.6	0.5	1.0	6.9	1.4	-7.7
Average hourly wage (\$)	-	3.9	4.5	3.5	0.6	0.0	-3.0	2.7	3.3	7.0	3.6	3.8	1.5	2.6	1.6
Management occupations (A)															
Number of jobs	-	-3.0	-0.5	-23.4	-16.7	-9.2	-13.2	-9.3	15.3	34.9	23.6	14.4	15.5	1.2	-14.7
Hours worked (millions)	-	9.3	-3.5	-22.0	-19.0	-5.6	-13.1	-15.6	16.5	28.2	19.5	6.9	24.1	1.4	-19.3
Wages and salaries (\$ millions)	-	10.5	-3.5	-16.6	-17.2	-3.4	-11.5	-8.6	6.9	7.8	2.0	-0.9	8.8	4.1	-22.3
Average annual hours worked	-	12.7	-3.0	1.9	-2.8	4.0	0.1	-7.0	1.1	-5.0	-3.3	-6.6	7.4	0.2	-5.4
Average annual wages and salaries (\$)	-	13.9	-3.0	8.9	-0.5	6.4	1.9	0.7	-7.3	-20.1	-17.5	-13.4	-5.8	2.8	-9.0
Average hourly wage (\$)	-	1.1	0.0	6.9	2.3	2.3	1.8	8.3	-8.3	-15.9	-14.6	-7.3	-12.3	2.6	-3.8
Business, Finance and Administrative Occupations (B)															
Number of jobs	-	-3.0	-0.5	-11.9	-2.6	4.5	-0.1	5.9	4.5	6.6	2.1	-2.6	0.6	1.2	-14.7
Hours worked (millions)	-	9.2	-3.1	-10.8	-5.0	5.3	3.1	4.8	6.9	2.5	-1.2	-6.9	4.8	0.0	-22.6
Wages and salaries (\$ millions)	-	10.5	-3.5	-9.9	-9.7	6.6	-0.7	4.8	13.1	13.9	7.8	4.6	14.8	4.1	-22.3
Average annual hours worked	-	12.6	-2.7	1.2	-2.5	0.8	3.2	-1.0	2.3	-3.8	-3.2	-4.4	4.2	-1.1	-9.3
Average annual wages and salaries (\$)	-	13.9	-3.0	2.2	-7.3	2.0	-0.6	-1.0	8.2	6.9	5.5	7.4	14.2	2.8	-9.0
Average hourly wage (\$)	-	1.2	-0.3	1.0	-4.9	1.2	-3.6	0.0	5.8	11.1	9.1	12.4	9.6	4.0	-0.3
Air Pilots, Flight Engineers and Flying Instructors (C171)															
Number of jobs	-	2.9	5.6	-6.9	-9.2	-0.2	2.3	12.2	8.3	2.8	1.8	-3.3	-2.5	3.3	-13.7
Hours worked (millions)	-	9.8	2.7	-7.2	-7.8	-3.1	4.8	14.4	7.1	-0.5	-0.5	-8.5	0.3	2.3	-23.0
Wages and salaries (\$ millions)	-	10.7	7.9	-8.4	-12.8	-5.3	-5.7	12.6	7.2	7.9	3.4	-0.9	3.5	4.6	-19.9
Average annual hours worked	-	6.7	-2.7	-0.3	1.5	-2.9	2.4	1.9	-1.1	-3.1	-2.3	-5.3	2.9	-1.0	-10.8
Average annual wages and salaries (\$)	-	7.5	2.2	-1.6	-4.0	-5.1	-7.9	0.3	-1.0	5.0	1.5	2.6	6.2	1.2	-7.1
Average hourly wage (\$)	-	0.8	5.0	-1.3	-5.4	-2.3	-10.0	-1.6	0.1	8.4	3.9	8.3	3.2	2.2	4.1
Pursers and Flight Attendants (G712)															
Number of jobs	-	4.0	5.5	-9.0	-11.4	1.0	3.8	19.7	21.6	13.5	6.1	0.1	5.5	1.1	-14.2
Hours worked (millions)	-	9.3	2.4	-9.0	-15.4	4.2	5.5	16.4	19.6	6.9	2.2	-3.2	11.3	0.0	-21.5
Wages and salaries (\$ millions)	-	21.8	8.4	-7.0	-13.2	-0.9	-1.7	18.1	27.3	18.0	8.9	2.5	13.5	0.9	-21.4
Average annual hours worked	-	5.1	-2.9	0.0	-4.6	3.2	1.7	-2.7	-1.6	-5.8	-3.7	-3.2	5.6	-1.1	-8.5
Average annual wages and salaries (\$)	-	17.1	2.8	2.2	-2.1	-2.1	-5.3	-1.3	4.7	4.0	2.6	2.4	7.6	-0.3	-8.4
Average hourly wage (\$)	-	11.4	5.9	2.2	2.6	-4.9	-6.8	1.4	6.5	10.4	6.6	5.8	1.9	0.8	0.1
Airline Sales and Service Agents (G713)															
Number of jobs	-	4.0	8.6	-0.1	-5.5	-1.6	2.7	18.1	8.4	3.8	-0.6	-4.4	-4.1	-2.1	-17.0
Hours worked (millions)	-	9.4	5.4	-1.3	-9.2	-1.2	3.6	14.1	8.3	-0.9	-3.1	-6.6	2.1	-3.1	-24.1
Wages and salaries (\$ millions)	-	12.0	12.0	6.4	-4.4	1.8	2.4	19.4	11.7	5.4	-1.8	-5.5	0.7	-0.9	-22.5

Tourism estimates

Table A1h: Number of part-time employee, hours worked, and employment earnings, by occupation, Canada, annual percentage changes, 1988-2002

Air Transportation (NAICS 481)	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Average annual hours worked	-	5.2	-3.0	-1.2	-3.9	0.4	0.9	-3.4	-0.1	-4.5	-2.6	-2.3	6.4	-1.1	-8.5
Average annual wages and salaries (\$)	-	7.7	3.1	6.5	1.2	3.4	-0.2	1.1	3.0	1.5	-1.3	-1.2	5.0	1.2	-6.6
Average hourly wage (\$)	-	2.4	6.3	7.8	5.3	2.9	-1.1	4.6	3.1	6.3	1.3	1.2	-1.4	2.3	2.1
Aircraft Mechanics and Aircraft Inspectors (H415)															
Number of jobs	-	6.0	5.6	5.1	-1.6	5.3	5.5	18.7	13.3	3.4	-2.4	-5.3	1.4	3.3	-13.0
Hours worked (millions)	-	-3.0	2.0	7.4	-8.1	5.2	3.1	26.0	13.9	2.0	-4.7	-5.7	10.6	0.5	-20.7
Wages and salaries (\$ millions)	-	13.7	9.3	25.1	-1.0	12.7	7.9	23.4	18.9	8.6	1.1	-1.9	12.5	5.0	-21.2
Average annual hours worked	-	-8.5	-3.4	2.2	-6.6	0.0	-2.2	6.1	0.5	-1.3	-2.3	-0.4	9.1	-2.7	-8.9
Average annual wages and salaries (\$)	-	7.3	3.5	19.0	0.6	7.1	2.3	3.9	5.0	5.1	3.6	3.6	10.9	1.6	-9.5
Average hourly wage (\$)	-	17.2	7.1	16.4	7.7	7.1	4.6	-2.1	4.4	6.4	6.1	4.0	1.7	4.5	-0.7
Air Transport Ramp Attendants (H737)															
Number of jobs	-	4.0	8.6	7.4	0.3	3.4	7.1	22.5	5.8	1.1	-3.4	-7.3	-7.3	-2.1	-17.0
Hours worked (millions)	-	18.7	8.0	13.2	-0.4	7.1	7.8	20.0	10.5	-2.1	-8.8	-7.7	-6.2	-3.2	-26.5
Wages and salaries (\$ millions)	-	21.4	12.0	21.0	-3.0	7.5	7.4	24.4	11.6	5.3	-1.9	-6.6	1.7	-0.9	-24.8
Average annual hours worked	-	14.1	-0.6	5.4	-0.7	3.5	0.7	-2.0	4.5	-3.2	-5.6	-0.4	1.3	-1.1	-11.4
Average annual wages and salaries (\$)	-	16.7	3.1	12.6	-3.3	4.0	0.3	1.6	5.5	4.2	1.5	0.8	9.8	1.2	-9.3
Average hourly wage (\$)	-	2.3	3.7	6.9	-2.6	0.4	-0.4	3.7	1.0	7.6	7.5	1.3	8.4	2.3	2.3
All other occupations in Air Transportation															
Number of jobs	-	-1.3	1.6	-13.3	-10.0	-8.1	-5.7	4.5	16.5	13.2	8.2	0.9	3.5	0.4	-15.2
Hours worked (millions)	-	8.0	-1.4	-17.1	-19.1	-8.9	-8.1	7.2	13.4	12.8	9.0	0.1	12.3	-1.2	-23.2
Wages and salaries (\$ millions)	-	11.2	0.3	-10.0	-17.4	-3.9	-1.5	14.7	15.4	10.7	3.5	-1.8	6.9	1.6	-23.2
Average annual hours worked	-	9.4	-2.9	-4.4	-10.1	-0.9	-2.6	2.6	-2.7	-0.4	0.7	-0.8	8.5	-1.6	-9.4
Average annual wages and salaries (\$)	-	12.6	-1.3	3.7	-8.2	4.6	4.4	9.8	-1.0	-2.2	-4.4	-2.6	3.3	1.2	-9.5
Average hourly wage (\$)	-	2.9	1.7	8.5	2.1	5.5	7.2	7.0	1.7	-1.9	-5.0	-1.8	-4.8	2.9	0.0

Tourism estimates

Table A2a: Number of jobs, hours worked, and employment earnings, by class of worker, Canada, 1988-2002

Accommodation Services (NAICS 721) (excluding NAICS 7213)	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Total jobs															
Number of jobs	116,500	120,007	129,297	116,919	119,221	120,498	122,432	120,329	122,624	121,522	128,853	131,002	127,625	126,712	125,118
Hours worked (millions)	212	219	235	207	210	210	220	216	220	216	231	235	227	223	216
Income from employment (\$ millions)	1,795	1,997	2,208	1,994	2,104	2,171	2,324	2,347	2,428	2,400	2,575	2,638	2,776	2,894	2,859
Of which:															
Labour income (\$ millions)	1,699	1,891	2,091	1,886	1,993	2,059	2,202	2,233	2,313	2,286	2,450	2,524	2,655	2,761	2,730
All employee jobs															
Number of jobs	111,126	114,471	123,333	111,526	113,722	114,939	116,785	114,779	116,988	115,917	122,966	125,828	122,558	121,544	120,222
Number of full-time equivalent jobs	95,157	98,176	106,113	94,133	95,839	95,888	97,093	97,187	99,318	98,426	106,469	107,434	105,390	105,065	102,398
Hours worked (millions)	201	208	223	196	199	199	208	206	210	206	220	225	218	213	206
Wages and salaries (\$ millions)	1,565	1,742	1,926	1,737	1,836	1,897	2,029	2,057	2,131	2,106	2,262	2,335	2,461	2,546	2,528
Average annual hours worked	1,809	1,813	1,805	1,759	1,749	1,734	1,782	1,793	1,793	1,778	1,788	1,787	1,775	1,751	1,713
Average annual wages and salaries (\$)	14,087	15,219	15,615	15,577	16,146	16,502	17,371	17,919	18,214	18,165	18,396	18,555	20,080	20,948	21,026
Average hourly wage (\$)	7.79	8.39	8.65	8.85	9.23	9.52	9.75	9.99	10.16	10.22	10.29	10.38	11.31	11.96	12.28
Full-time employee jobs															
Number of jobs	82,555	85,714	92,974	81,154	82,290	82,872	84,107	83,472	85,294	84,527	92,073	93,458	91,646	91,543	87,835
Hours worked (millions)	175	182	196	170	171	171	180	178	182	179	192	197	191	186	177
Wages and salaries (\$ millions)	1,399	1,567	1,741	1,550	1,626	1,679	1,801	1,831	1,905	1,887	2,046	2,125	2,241	2,310	2,257
Average annual hours worked	2,117	2,118	2,104	2,097	2,080	2,069	2,135	2,132	2,133	2,114	2,086	2,112	2,081	2,030	2,014
Average annual wages and salaries (\$)	16,950	18,284	18,721	19,100	19,761	20,264	21,416	21,936	22,337	22,319	22,218	22,742	24,456	25,236	25,694
Average hourly wage (\$)	8.01	8.63	8.90	9.11	9.50	9.79	10.03	10.29	10.47	10.56	10.65	10.77	11.75	12.43	12.75
Part-time employee jobs															
Number of jobs	28,571	28,757	30,358	30,373	31,432	32,067	32,678	31,307	31,674	31,390	30,893	32,370	30,912	30,001	32,387
Hours worked (millions)	26	26	27	26	28	28	29	28	28	27	28	27	27	27	29
Wages and salaries (\$ millions)	166	175	185	187	210	217	228	226	225	219	216	209	220	236	271
Average annual hours worked	921	904	889	856	880	867	874	887	880	872	899	849	870	899	895
Average annual wages and salaries (\$)	5,814	6,081	6,103	6,164	6,684	6,782	6,963	7,208	7,114	6,981	7,007	6,466	7,110	7,866	8,365
Average hourly wage (\$)	6.32	6.73	6.87	7.20	7.59	7.82	7.97	8.12	8.09	8.01	7.79	7.62	8.18	8.74	9.35
All self-employment jobs															
Number of jobs	5,374	5,536	5,964	5,393	5,499	5,558	5,647	5,550	5,656	5,605	5,887	5,174	5,067	5,168	4,896
Hours worked (millions)	11	12	13	11	11	11	11	11	10	10	11	10	10	10	10
Income from self-employment (\$ millions)	96	106	118	109	111	112	122	115	115	115	125	114	121	134	129
Average annual hours worked	2,113	2,108	2,105	2,096	2,007	1,949	2,036	1,904	1,842	1,842	1,904	1,970	1,954	1,996	1,989
Average annual wages and salaries (\$)	17,865	19,209	19,765	20,143	20,114	20,142	21,544	20,652	20,306	20,429	21,223	22,108	23,849	25,895	26,372

Tourism estimates

Table A2b: Number of jobs, hours worked, and employment earnings, by class of worker, Canada, annual percentage changes, 1988-2002

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Accommodation Services (NAICS 721)															
<i>(excluding NA/CS 7213)</i>															
Total jobs															
Number of jobs	-	3.0	7.7	-9.6	2.0	1.1	1.6	-1.7	1.9	-0.9	6.0	1.7	-2.6	-0.7	-1.3
Hours worked (millions)	-	3.2	7.3	-11.8	1.2	0.1	4.5	-1.5	1.8	-1.7	6.8	1.8	-3.2	-1.9	-3.4
Income from employment (\$ millions)	-	11.3	10.6	-9.7	5.5	3.2	7.0	1.0	3.4	-1.1	7.3	2.5	5.2	4.3	-1.2
Of which:															
Labour income (\$ millions)	-	11.3	10.6	-9.8	5.7	3.3	7.0	1.4	3.6	-1.2	7.2	3.0	5.2	4.0	-1.1
All employee jobs															
Number of jobs	-	3.0	7.7	-9.6	2.0	1.1	1.6	-1.7	1.9	-0.9	6.1	2.3	-2.6	-0.8	-1.1
Number of full-time equivalent jobs	-	3.2	8.1	-11.3	1.8	0.1	1.3	0.1	2.2	-0.9	8.2	0.9	-1.9	-0.3	-2.5
Hours worked (millions)	-	3.2	7.3	-11.9	1.4	0.2	4.4	-1.1	1.9	-1.8	6.7	2.3	-3.3	-2.2	-3.3
Wages and salaries (\$ millions)	-	11.3	10.6	-9.8	5.7	3.3	7.0	1.4	3.6	-1.2	7.4	3.2	5.4	3.5	-0.7
Average annual hours worked	-	0.2	-0.4	-2.6	-0.6	-0.9	2.8	0.6	0.0	-0.9	0.6	0.0	-0.7	-1.4	-2.2
Average annual wages and salaries (\$)	-	8.0	2.6	-0.2	3.7	2.2	5.3	3.1	1.7	-0.3	1.3	0.9	8.2	4.3	0.4
Average hourly wage (\$)	-	7.8	3.0	2.4	4.3	3.1	2.4	2.5	1.6	0.6	0.7	0.9	9.0	5.8	2.6
Full-time employee jobs															
Number of jobs	-	3.8	8.5	-12.7	1.4	0.7	1.5	-0.8	2.2	-0.9	8.9	1.5	-1.9	-0.1	-4.1
Hours worked (millions)	-	3.9	7.8	-13.0	0.6	0.2	4.7	-0.9	2.2	-1.8	7.5	2.8	-3.4	-2.5	-4.8
Wages and salaries (\$ millions)	-	12.0	11.1	-11.0	4.9	3.3	7.3	1.7	4.1	-1.0	8.4	3.9	5.5	3.1	-2.3
Average annual hours worked	-	0.1	-0.6	-0.4	-0.8	-0.5	3.2	-0.1	0.0	-0.9	-1.3	1.3	-1.5	-2.4	-0.8
Average annual wages and salaries (\$)	-	7.9	2.4	2.0	3.5	2.5	5.7	2.4	1.8	-0.1	-0.5	2.4	7.5	3.2	1.8
Average hourly wage (\$)	-	7.8	3.0	2.4	4.3	3.1	2.4	2.5	1.8	0.8	0.9	1.1	9.2	5.8	2.6
Part-time employee jobs															
Number of jobs	-	0.7	5.6	0.0	3.5	2.0	1.9	-4.2	1.2	-0.9	-1.6	4.8	-4.5	-2.9	8.0
Hours worked (millions)	-	-1.2	3.8	-3.6	6.4	0.5	2.7	-2.7	0.3	-1.8	1.5	-1.1	-2.2	0.4	7.4
Wages and salaries (\$ millions)	-	5.3	6.0	1.0	12.2	3.5	4.6	-0.8	-0.1	-2.8	-1.2	-3.3	5.0	7.4	14.8
Average annual hours worked	-	-1.8	-1.7	-3.7	2.8	-1.5	0.8	1.5	-0.9	-0.9	3.1	-5.6	2.4	3.4	-0.5
Average annual wages and salaries (\$)	-	4.6	0.4	1.0	8.4	1.5	2.7	3.5	-1.3	-1.9	0.4	-7.7	9.9	10.6	6.3
Average hourly wage (\$)	-	6.5	2.1	4.8	5.5	3.0	1.9	2.0	-0.4	-1.0	-2.7	-2.3	7.4	7.0	6.9
All self-employment jobs															
Number of jobs	-	3.0	7.7	-9.6	2.0	1.1	1.6	-1.7	1.9	-0.9	5.0	-12.1	-2.1	2.0	-5.3
Hours worked (millions)	-	2.7	7.6	-10.0	-2.4	-1.8	6.1	-8.1	-1.4	-0.9	8.6	-9.1	-2.8	4.2	-5.6
Income from self-employment (\$ millions)	-	10.8	10.9	-7.8	1.8	1.2	8.7	-5.8	0.2	-0.3	9.1	-8.5	5.7	10.7	-3.5
Average annual hours worked	-	-0.3	-0.1	-0.4	-4.2	-2.9	4.4	-6.5	-3.2	0.0	3.4	-3.4	-0.8	2.2	-0.4
Average annual income	-	7.5	2.9	1.9	-0.1	0.1	7.0	-4.1	-1.7	0.6	3.9	4.2	7.9	8.6	1.8

Tourism estimates

Table A2c: Number of employee, hours worked, and employment earnings, by occupations, Canada, 1988-2002

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Accommodation Services (NAICS 721)															
<i>(excluding NAICS 7213)</i>															
All occupations in Accommodation Services															
Number of jobs	110,670	114,056	123,011	111,397	113,281	113,694	115,846	114,696	116,854	115,813	123,070	125,880	122,506	120,922	119,392
Number of full-time equivalent jobs	95,157	98,176	106,113	94,133	95,839	95,888	97,093	97,187	99,318	98,426	106,469	107,434	105,390	105,065	102,398
Hours worked (millions)	199.6	206.1	221.4	195.6	197.4	196.6	205.6	205.6	213.9	210.6	226.5	225.4	217.5	211.7	204.5
Wages and salaries (\$ millions)	1,553.5	1,728.5	1,912.4	1,731.4	1,821.5	1,872.8	2,005.9	2,056.5	2,130.9	2,106.4	2,265.5	2,340.6	2,461.1	2,531.9	2,510.4
Average annual hours worked	1,804	1,807	1,800	1,756	1,743	1,729	1,775	1,792	1,796	1,780	1,790	1,790	1,776	1,750	1,713
Average annual wages and salaries (\$)	14,038	15,155	15,547	15,543	16,079	16,472	17,315	17,930	18,236	18,188	18,408	18,594	20,089	20,938	21,026
Average hourly wage (\$)	7.78	8.38	8.64	8.85	9.23	9.52	9.76	10.00	10.15	10.22	10.28	10.39	11.31	11.96	12.28
Accommodation Service Managers (A222)															
Number of jobs	7,789	8,439	9,349	8,694	8,991	8,989	9,071	8,988	9,536	9,771	11,414	12,100	11,772	10,665	9,930
Number of full-time equivalent jobs	7,576	8,165	9,021	8,322	8,626	8,635	8,721	8,639	9,117	9,399	11,060	11,634	11,225	10,118	9,383
Hours worked (millions)	21.4	23.0	25.3	23.2	23.4	22.7	23.9	24.5	26.6	25.9	29.0	30.0	29.8	26.1	24.3
Wages and salaries (\$ millions)	204.3	236.1	267.7	253.1	268.3	269.1	292.8	308.6	336.7	331.0	372.9	387.9	417.3	391.4	374.9
Average annual hours worked	2,751	2,721	2,707	2,670	2,608	2,521	2,636	2,731	2,786	2,656	2,544	2,482	2,529	2,451	2,446
Average annual wages and salaries (\$)	26,231	27,976	28,640	29,116	29,843	29,941	32,281	34,338	35,307	33,871	32,668	32,059	35,447	36,699	37,757
Average hourly wage (\$)	9.54	10.28	10.58	10.90	11.44	11.88	12.24	12.57	12.67	12.76	12.84	12.92	14.01	14.97	15.44
Other Managers (A, excl. A222)															
Number of jobs	4,317	4,561	5,539	4,623	4,365	4,086	3,968	3,906	4,369	4,677	5,454	5,662	5,779	5,628	5,374
Number of full-time equivalent jobs	4,209	4,463	5,443	4,541	4,282	3,999	3,840	3,788	4,216	4,484	5,245	5,452	5,599	5,433	5,180
Hours worked (millions)	11.8	12.3	14.4	12.1	11.3	10.8	10.6	10.4	11.1	11.4	13.2	14.0	14.0	13.0	12.0
Wages and salaries (\$ millions)	136.9	154.0	186.6	161.8	158.6	159.2	163.8	178.7	185.9	185.9	216.8	232.0	252.0	249.1	237.6
Average annual hours worked	2,729	2,690	2,606	2,623	2,592	2,644	2,667	2,654	2,557	2,443	2,421	2,470	2,428	2,303	2,227
Average annual wages and salaries (\$)	31,720	33,773	33,694	34,994	36,347	38,974	40,656	41,940	40,898	39,740	39,753	40,978	43,608	44,267	44,218
Average hourly wage (\$)	11.62	12.56	12.93	13.34	14.03	14.74	15.24	15.80	16.12	16.27	16.42	16.59	17.96	19.22	19.85
Business, Finance and Administrative Occupations (B)															
Number of jobs	7,914	8,569	9,097	7,934	7,072	6,331	6,347	6,742	7,582	7,873	7,973	8,171	7,719	8,506	8,356
Number of full-time equivalent jobs	7,347	7,863	8,276	7,018	6,337	5,750	5,744	6,133	6,848	7,082	7,075	7,301	6,976	7,817	7,577
Hours worked (millions)	16.2	17.2	17.9	15.1	13.5	12.2	12.6	13.5	15.1	15.2	15.0	15.5	14.8	16.2	15.5
Wages and salaries (\$ millions)	143.0	162.8	172.0	154.7	147.7	141.9	155.4	173.4	191.8	190.1	182.8	188.9	193.5	222.1	218.8
Average annual hours worked	2,044	2,013	1,965	1,910	1,914	1,928	1,989	2,004	1,994	1,880	1,880	1,899	1,922	1,900	1,859
Average annual wages and salaries (\$)	18,065	18,999	18,906	19,496	20,883	22,420	24,490	25,720	25,291	24,152	22,928	23,118	25,070	26,108	26,185
Average hourly wage (\$)	8.84	9.44	9.62	10.21	10.91	11.63	12.31	12.83	12.69	12.49	12.19	12.17	13.04	13.74	14.08
Sales and Service Supervisors (G01)															
Number of jobs	3,140	3,375	3,590	2,911	2,775	2,729	2,952	3,129	3,327	3,270	3,490	3,915	4,074	4,324	4,512
Number of full-time equivalent jobs	2,985	3,218	3,452	2,736	2,597	2,545	2,758	2,951	3,138	3,090	3,312	3,702	3,902	4,182	4,390
Hours worked (millions)	6.7	7.3	7.4	6.3	6.0	6.0	6.5	6.9	7.3	7.3	7.8	8.7	8.7	9.3	9.7
Wages and salaries (\$ millions)	57.1	67.4	74.3	60.9	61.2	63.8	70.8	77.7	81.9	81.8	85.8	95.5	101.3	115.3	123.7
Average annual hours worked	2,120	2,150	2,174	2,149	2,149	2,188	2,190	2,194	2,183	2,238	2,230	2,216	2,134	2,160	2,161
Average annual wages and salaries (\$)	18,178	19,984	20,711	20,919	22,061	23,389	23,984	24,831	24,617	25,015	24,593	24,393	24,856	26,673	27,408
Average hourly wage (\$)	8.57	9.29	9.53	9.73	10.27	10.69	10.95	11.32	11.28	11.18	11.03	11.01	11.65	12.35	12.68
Chefs and Cooks (G41)															
Number of jobs	8,739	8,720	8,796	8,209	8,629	9,118	8,679	8,444	8,195	7,873	8,633	8,719	8,760	8,368	8,241
Number of full-time equivalent jobs	8,135	8,087	8,136	7,489	7,900	8,274	7,879	7,615	7,426	7,179	8,000	7,973	8,090	7,787	7,682
Hours worked (millions)	17.8	17.8	18.1	16.6	17.3	17.9	17.5	17.0	16.6	15.8	17.3	17.6	17.7	16.7	16.5
Wages and salaries (\$ millions)	147.5	158.8	165.7	155.4	169.7	180.4	179.5	177.0	173.2	165.7	181.4	183.8	199.5	200.0	202.2

Tourism estimates

Table A2c: Number of employee, hours worked, and employment earnings, by occupations, Canada, 1988-2002

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Accommodation Services (NAICS 721)															
<i>(excluding NAICS 7213)</i>															
Average annual hours worked	2,032	2,044	2,057	2,017	2,005	1,967	2,017	2,009	2,020	2,009	2,009	2,014	2,016	1,996	1,997
Average annual wages and salaries (\$)	16,877	18,217	18,841	18,927	19,667	19,784	20,687	20,957	21,129	21,044	21,015	21,078	22,773	23,895	24,537
Average hourly wage (\$)	8.30	8.91	9.16	9.38	9.81	10.06	10.25	10.43	10.46	10.47	10.46	10.46	11.30	11.97	12.28
Occupations in Food and Beverage Service (G51)															
Number of jobs	21,223	21,358	22,677	20,457	21,339	21,053	21,484	19,640	18,448	16,700	17,129	17,437	16,302	15,744	15,296
Number of full-time equivalent jobs	17,250	17,306	18,206	15,829	16,603	16,452	16,747	15,489	14,670	13,323	14,052	13,866	13,124	12,790	12,247
Hours worked (millions)	34.4	34.1	35.2	30.3	31.8	31.6	33.4	30.8	28.8	26.0	27.1	27.0	24.9	23.6	22.4
Wages and salaries (\$ millions)	249.0	264.6	281.0	245.2	268.0	274.3	294.0	274.7	261.1	240.0	254.5	257.7	262.3	263.4	258.5
Average annual hours worked	1,620	1,595	1,553	1,479	1,489	1,503	1,554	1,567	1,559	1,557	1,585	1,550	1,527	1,497	1,462
Average annual wages and salaries (\$)	11,735	12,389	12,394	11,985	12,559	13,029	13,684	13,987	14,156	14,370	14,858	14,781	16,087	16,729	16,900
Average hourly wage (\$)	7.24	7.77	7.98	8.10	8.43	8.67	8.81	8.93	9.08	9.23	9.38	9.54	10.54	11.18	11.56
Hotel Front Desk Clerks (G715)															
Number of jobs	7,221	7,600	8,745	8,629	9,239	9,466	10,573	11,019	11,318	10,709	11,413	11,846	12,280	13,248	13,671
Number of full-time equivalent jobs	6,354	6,675	7,710	7,344	7,922	8,172	9,124	9,695	9,932	9,339	10,106	10,413	10,715	11,643	11,762
Hours worked (millions)	13.0	13.5	15.4	14.8	16.0	16.4	18.9	19.7	20.2	19.0	20.5	21.2	21.4	23.1	23.5
Wages and salaries (\$ millions)	90.7	101.4	118.9	119.2	135.8	147.1	175.7	189.7	193.9	181.1	192.3	199.1	216.2	248.3	258.8
Average annual hours worked	1,805	1,783	1,766	1,720	1,727	1,736	1,784	1,791	1,787	1,774	1,794	1,787	1,739	1,747	1,716
Average annual wages and salaries (\$)	12,564	13,340	13,600	13,812	14,696	15,534	16,622	17,218	17,135	16,914	16,854	16,810	17,605	18,742	18,933
Average hourly wage (\$)	6.96	7.48	7.70	8.03	8.51	8.95	9.32	9.61	9.59	9.54	9.40	9.41	10.12	10.73	11.03
Cleaners (G93)															
Number of jobs	25,414	25,517	27,412	25,166	26,423	27,143	27,388	27,371	29,299	29,879	31,789	31,747	30,472	29,888	29,399
Number of full-time equivalent jobs	20,688	20,997	22,605	20,517	21,608	22,068	21,936	22,046	23,658	23,938	26,035	25,622	24,919	24,948	24,060
Hours worked (millions)	39.0	39.5	42.8	38.2	40.1	40.8	42.2	42.1	44.5	44.8	48.2	48.7	46.2	45.8	43.8
Wages and salaries (\$ millions)	257.4	280.1	312.1	287.3	318.2	337.0	360.1	369.8	392.5	395.9	424.4	431.8	442.5	467.0	460.0
Average annual hours worked	1,536	1,548	1,560	1,516	1,518	1,501	1,540	1,536	1,519	1,501	1,516	1,534	1,517	1,531	1,490
Average annual wages and salaries (\$)	10,128	10,977	11,386	11,416	12,042	12,414	13,147	13,512	13,395	13,248	13,349	13,601	14,521	15,624	15,648
Average hourly wage (\$)	6.59	7.09	7.30	7.53	7.93	8.27	8.54	8.79	8.82	8.83	8.81	8.87	9.57	10.20	10.50
Food Counter Attendants and Kitchen Helpers (G96)															
Number of jobs	5,414	5,828	6,639	5,926	6,184	5,957	6,127	5,340	4,972	4,714	4,965	5,267	5,109	5,343	5,470
Number of full-time equivalent jobs	3,991	4,256	4,963	4,238	4,440	4,187	4,291	3,836	3,463	3,306	3,639	3,814	3,743	3,913	3,874
Hours worked (millions)	7.7	8.3	9.3	7.9	8.0	7.7	8.1	7.3	6.5	6.1	6.4	7.1	7.0	7.2	7.0
Wages and salaries (\$ millions)	47.7	55.3	63.2	53.6	56.0	55.4	58.6	52.9	47.3	44.7	47.3	53.3	56.5	62.3	61.6
Average annual hours worked	1,426	1,429	1,397	1,330	1,289	1,294	1,323	1,363	1,302	1,291	1,295	1,355	1,364	1,357	1,272
Average annual wages and salaries (\$)	8,812	9,494	9,523	9,052	9,057	9,298	9,564	9,913	9,508	9,479	9,537	10,124	11,050	11,667	11,255
Average hourly wage (\$)	6.18	6.65	6.81	6.81	7.03	7.19	7.23	7.27	7.30	7.34	7.36	7.47	8.10	8.60	8.85
All other occupations in Accommodation Services															
Number of jobs	19,497	20,090	21,167	18,849	18,265	18,821	19,256	20,117	19,809	20,345	20,810	21,017	20,240	19,208	19,142
Number of full-time equivalent jobs	16,624	17,145	18,300	16,099	15,523	15,806	16,054	16,995	16,850	17,285	17,944	17,657	17,097	16,434	16,244
Hours worked (millions)	31.6	33.1	35.2	31.1	30.1	30.5	32.0	33.5	33.3	34.5	35.8	35.6	33.1	30.6	29.9
Wages and salaries (\$ millions)	219.9	247.8	270.6	240.3	237.9	244.5	257.5	268.8	273.9	290.3	307.2	310.5	320.1	313.0	314.2
Average annual hours worked	1,622	1,649	1,661	1,652	1,646	1,620	1,662	1,663	1,682	1,692	1,719	1,692	1,636	1,594	1,561
Average annual wages and salaries (\$)	11,277	12,336	12,786	12,747	13,027	12,990	13,374	13,360	13,829	14,270	14,762	14,775	15,818	16,295	16,413
Average hourly wage (\$)	6.95	7.48	7.70	7.72	7.91	8.02	8.05	8.03	8.22	8.41	8.59	8.73	9.67	10.22	10.52

Tourism estimates

Table A2d: Number of employee, hours worked, and employment earnings, by occupations, Canada, annual percentage changes, 1988-2002

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Accommodation Services (NAICS 7213)															
All occupations in Accommodation Services															
Number of jobs	-	3.1	7.9	-9.4	1.7	0.4	1.9	-1.0	1.9	-0.9	6.3	2.3	-2.7	-1.3	-1.3
Number of full-time equivalent jobs	-	3.2	8.1	-11.3	1.8	0.1	1.3	0.1	2.2	-0.9	8.2	0.9	-1.9	-0.3	-2.5
Hours worked (millions)	-	3.3	7.4	-11.7	1.0	-0.4	4.6	0.0	2.1	-1.8	6.9	2.3	-3.5	-2.7	-3.4
Wages and salaries (\$ millions)	-	11.3	10.6	-9.5	5.2	2.8	7.1	2.5	3.6	-1.1	7.6	3.3	5.1	2.9	-0.8
Average annual hours worked	-	0.2	-0.4	-2.4	-0.7	-0.8	2.6	1.0	0.2	-0.9	0.6	0.0	-0.8	-1.4	-2.2
Average annual wages and salaries (\$)	-	8.0	2.6	0.0	3.5	2.4	5.1	3.5	1.7	-0.3	1.2	1.0	8.0	4.2	0.4
Average hourly wage (\$)	-	7.7	3.0	2.5	4.2	3.2	2.4	2.5	1.5	0.6	0.6	1.0	8.9	5.7	2.6
Accommodation Service Managers (A222)															
Number of jobs	-	8.3	10.8	-7.0	3.4	0.0	0.9	-0.9	6.1	2.5	16.8	6.0	-2.7	-9.4	-6.9
Number of full-time equivalent jobs	-	7.8	10.5	-7.7	3.7	0.1	1.0	-0.9	5.5	3.1	17.7	5.2	-3.5	-9.9	-7.3
Hours worked (millions)	-	7.2	10.2	-8.3	1.0	-3.4	5.6	2.6	8.2	-2.3	11.9	3.4	-0.9	-12.2	-7.1
Wages and salaries (\$ millions)	-	15.6	13.4	-5.5	6.0	3.3	8.8	5.4	9.1	-1.7	12.7	4.0	7.6	-6.2	-4.2
Average annual hours worked	-	-1.1	-0.5	-1.4	-2.3	-3.3	4.6	3.6	2.0	-4.7	-4.2	-2.5	1.9	-3.1	-0.2
Average annual wages and salaries (\$)	-	6.7	2.4	1.7	2.5	0.3	7.8	6.4	2.8	-4.1	-3.6	-1.9	10.6	3.5	2.9
Average hourly wage (\$)	-	7.8	2.9	3.1	5.0	3.8	3.1	2.7	0.8	0.6	0.7	0.6	8.5	6.8	3.1
Other Managers (A, excl. A222)															
Number of jobs	-	5.7	21.4	-16.5	-5.6	-6.4	-2.9	-1.6	11.9	7.0	16.6	3.8	2.1	-2.6	-4.5
Number of full-time equivalent jobs	-	6.0	21.9	-16.6	-5.7	-6.6	-4.0	-1.4	11.3	6.4	17.0	3.9	2.7	-3.0	-4.7
Hours worked (millions)	-	4.1	17.7	-16.0	-6.7	-4.5	-2.1	-2.0	6.9	3.0	15.6	5.9	0.3	-7.6	-7.7
Wages and salaries (\$ millions)	-	12.5	21.2	-13.3	-1.9	0.4	1.3	1.5	9.1	4.0	16.6	7.0	8.6	-1.1	-4.6
Average annual hours worked	-	-1.4	-3.1	0.6	-1.2	2.0	0.9	-0.5	-4.4	-3.7	-0.9	2.0	-1.7	-5.2	-3.3
Average annual wages and salaries (\$)	-	6.5	-0.2	3.9	3.9	7.2	4.3	3.2	-2.5	-2.8	0.0	3.1	6.4	1.5	-0.1
Average hourly wage (\$)	-	8.0	3.0	3.2	5.1	5.1	3.4	3.7	2.0	0.9	0.9	1.0	8.2	7.0	3.3
Business, Finance and Administrative Occupations (B)															
Number of jobs	-	8.3	6.2	-12.8	-10.9	-10.5	0.2	6.2	12.5	3.8	1.3	2.5	-5.5	10.2	-1.8
Number of full-time equivalent jobs	-	7.0	5.3	-15.2	-9.7	-9.3	-0.1	6.8	11.7	3.4	-0.1	3.2	-4.5	12.1	-3.1
Hours worked (millions)	-	6.6	3.6	-15.2	-10.7	-9.8	3.4	7.0	11.9	0.8	-1.6	3.5	2.4	8.9	-3.9
Wages and salaries (\$ millions)	-	13.9	5.6	-10.1	-4.5	-3.9	9.5	11.6	10.6	-0.8	-3.9	3.3	2.4	14.8	-1.5
Average annual hours worked	-	-1.5	-2.4	-2.8	0.2	0.8	3.2	0.8	-0.5	-3.0	-2.8	1.0	1.2	-1.1	-2.2
Average annual wages and salaries (\$)	-	5.2	-0.5	3.1	7.1	7.4	9.2	5.0	-1.7	-4.5	-5.1	0.8	8.4	4.1	0.3
Average hourly wage (\$)	-	6.8	1.9	6.1	6.9	6.5	5.9	4.2	-1.1	-1.6	-2.3	-0.2	7.1	5.3	2.5
Sales and Service Supervisors (G01)															
Number of jobs	-	7.5	6.4	-18.9	-4.7	-1.6	8.2	6.0	6.3	-1.7	6.7	12.2	4.1	6.1	4.4
Number of full-time equivalent jobs	-	7.8	7.3	-20.7	-5.1	-2.0	8.4	7.0	6.3	-1.5	7.2	11.8	5.4	7.2	5.0
Hours worked (millions)	-	9.0	7.5	-19.8	-4.7	0.2	8.3	6.2	5.8	0.8	6.3	11.5	0.2	7.4	4.4
Wages and salaries (\$ millions)	-	18.2	10.2	-18.1	0.5	4.3	10.9	9.7	5.4	-0.1	4.9	11.3	6.0	13.9	7.2
Average annual hours worked	-	1.4	1.1	-1.1	0.0	1.8	1.1	0.2	-0.5	2.5	-0.6	-0.6	-0.7	1.2	0.1
Average annual wages and salaries (\$)	-	9.9	3.6	1.0	5.5	6.0	2.5	3.5	-0.9	1.6	-1.7	-0.8	1.9	7.3	2.8
Average hourly wage (\$)	-	8.4	2.5	2.2	5.5	4.1	2.5	3.4	-0.4	-0.9	-1.3	-0.2	5.8	6.0	2.7
Chefs and Cooks (G41)															
Number of jobs	-	-0.2	0.9	-6.7	5.1	5.7	-4.8	-2.7	-2.9	-3.9	9.7	1.0	0.5	-4.5	-1.5
Number of full-time equivalent jobs	-	-0.6	0.6	-8.0	5.5	4.7	-4.8	-3.3	-2.5	-3.3	11.4	-0.3	1.5	-3.7	-1.4
Hours worked (millions)	-	0.3	1.5	-8.5	4.5	3.7	-2.4	-3.1	-2.4	-4.4	9.6	1.3	0.5	-5.4	-1.4
Wages and salaries (\$ millions)	-	7.7	4.3	-6.2	9.2	6.3	-0.5	-1.4	-2.2	-4.3	9.5	1.3	8.6	0.2	1.1

Tourism estimates

Table A2d: Number of employee, hours worked, and employment earnings, by occupations, Canada, annual percentage changes, 1988-2002

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Accommodation Services (NAICS 721) (excluding NA/CS 7213)															
Average annual hours worked	-	0.6	0.7	-1.9	-0.6	-1.9	2.5	-0.4	0.5	-0.5	0.0	0.3	0.1	-1.0	0.1
Average annual wages and salaries (\$)	-	7.9	3.4	0.5	3.9	0.6	4.6	1.3	0.8	-0.4	-0.1	0.3	8.0	4.9	2.7
Average hourly wage (\$)	-	7.3	2.8	2.4	4.5	2.5	2.0	1.7	0.3	0.1	-0.1	0.0	8.0	6.0	2.6
Occupations in Food and Beverage Service (G51)															
Number of jobs	-	0.6	6.2	-9.8	4.3	-1.3	2.0	-8.6	-6.1	-9.5	2.6	1.8	-6.5	-3.4	-2.8
Number of full-time equivalent jobs	-	0.3	5.2	-13.1	4.9	-0.9	1.8	-7.5	-5.3	-9.2	5.5	-1.3	-5.3	-2.5	-4.2
Hours worked (millions)	-	-0.9	3.3	-14.1	5.1	-0.4	5.5	-7.8	-6.5	-9.6	4.4	-0.5	-7.9	-5.3	-5.1
Wages and salaries (\$ millions)	-	6.2	6.2	-12.8	9.3	2.4	7.2	-6.6	-4.9	-8.1	6.1	1.3	1.8	0.4	-1.9
Average annual hours worked	-	-1.5	-2.7	-4.7	0.7	0.9	3.4	0.9	-0.5	-2.2	1.8	-2.2	-1.5	-2.0	-2.3
Average annual wages and salaries (\$)	-	5.6	0.0	-3.3	4.8	3.7	5.0	2.2	1.2	1.5	3.4	-0.5	8.8	4.0	1.0
Average hourly wage (\$)	-	7.2	2.8	1.5	4.1	2.8	1.6	1.3	1.7	1.7	1.6	1.7	10.5	6.1	3.4
Hotel Front Desk Clerks (G715)															
Number of jobs	-	5.2	15.1	-1.3	7.1	2.5	11.7	4.2	2.7	-5.4	6.6	3.8	3.7	7.9	3.2
Number of full-time equivalent jobs	-	5.1	15.5	-4.8	7.9	3.1	11.7	6.3	2.4	-6.0	8.2	3.0	2.9	8.7	1.0
Hours worked (millions)	-	3.9	14.0	-3.9	7.5	3.0	14.7	4.6	2.5	-6.1	7.8	3.4	0.9	8.4	1.4
Wages and salaries (\$ millions)	-	11.7	17.3	0.2	13.9	8.3	19.5	8.0	2.2	-6.6	6.2	3.5	8.6	14.9	4.2
Average annual hours worked	-	-1.2	-1.0	-2.6	0.4	0.5	2.7	0.4	-0.2	-0.8	1.1	-0.4	-2.7	0.5	-1.8
Average annual wages and salaries (\$)	-	6.2	2.0	1.6	6.4	5.7	7.0	3.6	-0.5	-1.3	-0.4	-0.3	4.7	6.5	1.0
Average hourly wage (\$)	-	7.5	2.9	4.3	6.0	5.1	4.2	3.2	-0.3	-0.5	-1.5	0.1	7.6	5.9	2.9
Cleaners (G93)															
Number of jobs	-	0.4	7.4	-8.2	5.0	2.7	0.9	-0.1	7.0	2.0	6.4	-0.1	-4.0	-1.9	-1.6
Number of full-time equivalent jobs	-	1.5	7.7	-9.2	5.3	2.1	-0.6	0.5	7.3	1.2	8.8	-1.6	-2.7	0.1	-3.6
Hours worked (millions)	-	1.2	8.3	-10.8	5.1	1.6	3.5	-0.3	5.8	0.8	7.4	1.1	-5.1	-1.0	-4.3
Wages and salaries (\$ millions)	-	8.8	11.4	-8.0	10.8	5.9	8.9	2.7	6.1	0.9	7.2	1.7	2.5	5.5	-1.5
Average annual hours worked	-	0.8	0.8	-2.8	0.1	-1.1	2.5	-0.2	-1.1	-1.2	1.0	1.2	-1.1	1.0	-2.7
Average annual wages and salaries (\$)	-	8.4	3.7	0.3	5.5	3.1	5.9	2.8	-0.9	-1.1	0.8	1.9	6.8	7.6	0.2
Average hourly wage (\$)	-	7.6	2.9	3.2	5.4	4.2	3.3	3.0	0.3	0.1	-0.2	0.7	8.0	6.6	2.9
Food Counter Attendants and Kitchen Helpers (G96)															
Number of jobs	-	7.6	13.9	-10.7	4.3	-3.7	2.9	-12.9	-6.9	-5.2	5.3	6.1	-3.0	4.6	2.4
Number of full-time equivalent jobs	-	6.6	16.6	-14.6	4.8	-5.7	2.5	-10.6	-9.7	-4.5	10.1	4.8	-1.9	4.5	-1.0
Hours worked (millions)	-	7.8	11.4	-15.1	1.2	-3.3	5.2	-10.2	-11.1	-6.0	5.7	10.9	-2.3	4.0	-4.0
Wages and salaries (\$ millions)	-	16.0	14.3	-15.2	4.4	-1.1	5.8	-9.7	-10.7	-5.5	6.0	12.6	5.9	10.4	-1.2
Average annual hours worked	-	0.2	-2.2	-4.9	-3.1	0.4	2.3	3.0	-4.5	-0.8	0.4	4.6	0.7	-0.5	-6.2
Average annual wages and salaries (\$)	-	7.7	0.3	-4.9	0.1	2.7	2.9	3.6	-4.1	-0.3	0.6	6.2	9.1	5.6	-3.5
Average hourly wage (\$)	-	7.6	2.6	-0.1	3.2	2.3	0.6	0.6	0.4	0.5	0.2	1.5	8.4	6.1	2.9
All other occupations in Accommodation Services															
Number of jobs	-	3.0	5.4	-11.0	-3.1	3.0	2.3	4.5	-1.5	2.7	2.3	1.0	-3.7	-5.1	-0.3
Number of full-time equivalent jobs	-	3.1	6.7	-12.0	-3.6	1.8	1.6	5.9	-0.9	2.6	3.8	-1.6	-3.2	-3.9	-1.2
Hours worked (millions)	-	4.8	6.1	-11.4	-3.4	1.4	5.0	4.6	-0.4	3.6	3.6	-0.6	-6.9	-7.5	-2.4
Wages and salaries (\$ millions)	-	12.7	9.2	-11.2	-1.0	2.8	5.3	4.4	1.9	6.0	5.8	1.1	3.1	-2.2	0.4
Average annual hours worked	-	1.7	0.7	-0.6	-0.3	-1.6	2.6	0.1	1.1	0.8	1.3	-1.5	-3.3	-2.6	-2.1
Average annual wages and salaries (\$)	-	9.4	3.6	-0.3	2.2	-0.3	3.0	-0.1	3.5	3.2	3.4	0.1	7.1	3.0	0.7
Average hourly wage (\$)	-	7.6	2.9	0.3	2.5	1.3	0.4	-0.2	2.4	2.3	2.1	1.7	10.7	5.7	2.9

Tourism estimates

Table A2e: Number of full-time employee, hours worked, and employment earnings, by occupations, Canada, 1988-2002

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Accommodation Services (NAICS 721)															
<i>(excluding NAICS 7213)</i>															
All occupations in Accommodation Services															
Number of jobs	81,777	84,936	92,196	80,739	81,512	81,575	82,914	83,213	85,449	84,735	92,384	93,822	91,646	91,076	87,316
Hours worked (millions)	173.0	179.8	193.9	169.3	169.5	168.8	177.1	177.6	182.3	179.1	192.8	198.2	190.7	184.8	175.8
Wages and salaries (\$ millions)	1,385.3	1,551.1	1,724.0	1,542.2	1,609.5	1,654.9	1,778.4	1,829.5	1,909.3	1,891.2	2,053.7	2,134.5	2,241.3	2,297.2	2,242.3
Average annual hours worked	2,116	2,117	2,104	2,097	2,080	2,069	2,135	2,134	2,133	2,114	2,087	2,113	2,081	2,029	2,013
Average annual wages and salaries (\$)	16,940	18,263	18,699	19,102	19,746	20,287	21,449	21,985	22,344	22,319	22,230	22,751	24,456	25,223	25,680
Average hourly wage (\$)	8.01	8.63	8.89	9.11	9.49	9.81	10.04	10.30	10.48	10.56	10.65	10.77	11.75	12.43	12.75
Accommodation Service Managers (A222)															
Number of jobs	7,349	7,901	8,740	7,996	8,299	8,323	8,429	8,371	8,841	9,176	10,781	11,301	10,855	9,735	8,992
Hours worked (millions)	21	22	25	22	23	22	23	24	26	25	28	29	29	27	23
Wages and salaries (\$ millions)	196	226	257	240	256	258	282	299	326	323	364	377	403	377	359
Average annual hours worked	2,828	2,812	2,805	2,789	2,718	2,624	2,742	2,841	2,914	2,761	2,626	2,582	2,653	2,584	2,589
Average annual wages and salaries (\$)	26,668	28,605	29,381	30,034	30,796	30,970	33,458	35,698	36,914	35,200	33,723	33,356	37,165	38,678	39,884
Average hourly wage (\$)	9.43	10.17	10.47	10.77	11.33	11.80	12.20	12.56	12.67	12.75	12.84	12.92	14.01	14.97	15.41
Other Managers (A, excl. A222)															
Number of jobs	4,087	4,366	5,334	4,459	4,194	3,930	3,742	3,689	4,086	4,344	5,073	5,276	5,449	5,227	4,931
Hours worked (millions)	11	12	14	12	11	11	10	10	11	11	13	14	14	12	11
Wages and salaries (\$ millions)	135	152	185	160	157	158	159	161	174	180	210	224	245	239	225
Average annual hours worked	2,799	2,749	2,652	2,670	2,642	2,702	2,756	2,737	2,629	2,548	2,517	2,565	2,507	2,386	2,311
Average annual wages and salaries (\$)	33,016	34,904	34,644	35,937	37,385	40,093	42,369	43,539	42,561	41,502	41,311	42,468	44,939	45,726	45,632
Average hourly wage (\$)	11.79	12.70	13.06	13.46	14.15	14.84	15.38	15.91	16.19	16.29	16.41	16.55	17.93	19.16	19.75
Business, Finance and Administrative Occupations (B)															
Number of jobs	6,762	7,204	7,514	6,308	5,707	5,256	5,268	5,650	6,248	6,344	6,220	6,596	6,358	7,153	6,808
Hours worked (millions)	15	16	16	14	12	11	12	12	14	14	13	14	14	15	14
Wages and salaries (\$ millions)	133	151	159	141	135	131	143	161	177	174	166	175	182	209	203
Average annual hours worked	2,202	2,193	2,159	2,159	2,135	2,124	2,198	2,204	2,207	2,150	2,119	2,125	2,127	2,068	2,051
Average annual wages and salaries (\$)	19,718	20,995	21,142	22,406	23,586	24,881	27,233	28,562	28,348	27,351	26,620	26,583	28,598	29,289	29,879
Average hourly wage (\$)	8.95	9.57	9.79	10.38	11.05	11.72	12.39	12.96	12.84	12.72	12.56	12.51	13.45	14.16	14.57
Sales and Service Supervisors (G01)															
Number of jobs	2,790	3,050	3,290	2,586	2,434	2,387	2,574	2,792	2,980	2,965	3,171	3,546	3,746	4,057	4,287
Hours worked (millions)	6	7	7	6	6	6	6	6	7	7	7	8	8	9	10
Wages and salaries (\$ millions)	54	65	72	58	58	61	67	74	79	79	83	92	98	113	121
Average annual hours worked	2,231	2,255	2,261	2,287	2,296	2,347	2,344	2,326	2,314	2,368	2,349	2,328	2,228	2,233	2,221
Average annual wages and salaries (\$)	19,466	21,225	21,791	22,538	23,915	25,461	26,094	26,682	26,431	26,738	26,190	26,071	26,182	27,770	28,299
Average hourly wage (\$)	8.73	9.41	9.64	9.86	10.42	10.85	11.13	11.47	11.42	11.29	11.15	11.13	11.75	12.44	12.74
Chefs and Cooks (G41)															
Number of jobs	7,606	7,543	7,609	6,933	7,337	7,623	7,283	7,022	6,829	6,632	7,438	7,449	7,518	7,185	7,021
Hours worked (millions)	17	17	17	15	16	17	16	16	15	15	16	16	16	15	15
Wages and salaries (\$ millions)	140	151	158	146	160	169	168	165	162	156	172	175	190	189	190
Average annual hours worked	2,183	2,204	2,224	2,211	2,190	2,168	2,222	2,228	2,229	2,204	2,168	2,203	2,183	2,145	2,143
Average annual wages and salaries (\$)	18,404	19,964	20,706	21,099	21,793	22,118	23,078	23,507	23,686	23,476	23,123	23,537	25,263	26,356	27,037
Average hourly wage (\$)	8.43	9.06	9.31	9.54	9.95	10.20	10.39	10.55	10.63	10.65	10.67	10.69	11.57	12.29	12.62

Tourism estimates

Table A2e: Number of full-time employee, hours worked, and employment earnings, by occupations, Canada, 1988-2002

Accommodation Services (NAICS 721) (excluding NAICS 7213)	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Occupations in Food and Beverage Service (G51)															
Number of jobs	13,890	13,949	14,578	12,265	12,629	12,595	12,871	11,838	11,364	10,270	11,120	10,942	10,442	9,986	9,354
Hours worked (millions)	28	27	28	23	24	24	26	24	22	20	21	21	20	18	17
Wages and salaries (\$ millions)	204	218	231	195	209	215	231	215	208	191	209	213	218	215	206
Average annual hours worked	1,993	1,969	1,934	1,911	1,914	1,924	1,993	1,987	1,961	1,951	1,932	1,949	1,896	1,842	1,826
Average annual wages and salaries (\$)	14,722	15,632	15,814	15,884	16,531	17,053	17,979	18,162	18,341	18,640	18,853	19,429	20,855	21,570	22,002
Average hourly wage (\$)	7.39	7.94	8.18	8.31	8.64	8.87	9.02	9.14	9.35	9.55	9.75	9.97	11.00	11.71	12.05
Hotel Front Desk Clerks (G715)															
Number of jobs	5,269	5,614	6,617	6,222	6,622	6,896	7,748	8,311	8,552	7,977	8,665	8,919	9,115	9,923	9,919
Hours worked (millions)	11	11	13	13	13	14	16	17	17	16	18	18	18	20	20
Wages and salaries (\$ millions)	78	88	105	104	117	127	153	166	171	159	171	176	190	219	225
Average annual hours worked	2,052	2,030	2,003	2,021	2,014	2,011	2,067	2,036	2,036	2,034	2,025	2,033	1,993	1,988	1,995
Average annual wages and salaries (\$)	14,809	15,757	15,936	16,739	17,642	18,472	19,749	20,011	20,018	19,944	19,746	19,785	20,874	22,084	22,734
Average hourly wage (\$)	7.22	7.76	7.96	8.28	8.76	9.18	9.55	9.83	9.83	9.81	9.75	9.73	10.47	11.11	11.40
Cleaners (G93)															
Number of jobs	16,786	17,320	18,772	16,905	17,663	17,997	17,943	17,926	19,230	19,379	21,253	21,338	20,564	20,922	19,678
Hours worked (millions)	32	33	36	31	33	33	34	34	36	36	39	41	38	38	36
Wages and salaries (\$ millions)	216	239	268	244	268	283	303	309	330	333	361	376	382	408	392
Average annual hours worked	1,887	1,881	1,892	1,859	1,856	1,847	1,922	1,908	1,881	1,873	1,851	1,900	1,855	1,834	1,821
Average annual wages and salaries (\$)	12,860	13,794	14,272	14,452	15,174	15,711	16,892	17,258	17,164	17,165	17,008	17,606	18,587	19,516	19,938
Average hourly wage (\$)	6.81	7.33	7.54	7.77	8.18	8.51	8.79	9.05	9.12	9.16	9.19	9.26	10.02	10.64	10.95
Food Counter Attendants and Kitchen Helpers (G96)															
Number of jobs	3,075	3,296	3,848	3,180	3,244	3,064	3,157	2,797	2,490	2,363	2,655	2,886	2,834	2,902	2,691
Hours worked (millions)	6	6	7	6	6	6	6	5	5	4	5	5	5	5	5
Wages and salaries (\$ millions)	38	45	51	42	43	43	46	41	36	34	37	43	45	49	46
Average annual hours worked	1,935	1,957	1,869	1,859	1,795	1,840	1,889	1,897	1,869	1,841	1,787	1,871	1,861	1,852	1,796
Average annual wages and salaries (\$)	12,483	13,608	13,349	13,313	13,290	13,945	14,419	14,598	14,531	14,400	13,903	14,898	16,012	16,915	16,915
Average hourly wage (\$)	6.45	6.96	7.14	7.16	7.40	7.58	7.63	7.69	7.77	7.82	7.87	7.96	8.60	9.13	9.42
All other occupations in Accommodation Services															
Number of jobs	14,163	14,693	15,895	13,883	13,383	13,504	13,898	14,817	14,829	15,284	16,009	15,570	14,765	13,987	13,637
Hours worked (millions)	27	28	31	27	26	26	28	29	29	31	32	31	29	26	25
Wages and salaries (\$ millions)	190	216	239	210	208	212	226	238	246	262	281	283	287	278	275
Average annual hours worked	1,903	1,933	1,922	1,934	1,937	1,929	1,984	1,969	1,977	1,997	1,993	2,014	1,937	1,863	1,839
Average annual wages and salaries (\$)	13,417	14,693	15,041	15,148	15,521	15,682	16,265	16,033	16,558	17,157	17,556	18,153	19,470	19,889	20,166
Average hourly wage (\$)	7.05	7.60	7.83	7.83	8.01	8.13	8.16	8.14	8.37	8.59	8.81	9.01	10.05	10.68	10.97

Tourism estimates

Table A2f: Number of full-time employee, hours worked, and employment earnings, by occupations, Canada, annual percentage changes, 1988-2002

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Accommodation Services (NAICS 721)															
<i>(excluding NAICS 7213)</i>															
All occupations in Accommodation Services															
Number of jobs	-	3.9	8.5	-12.4	1.0	0.1	1.6	0.4	2.7	-0.8	9.0	1.6	-2.3	-0.6	-4.1
Hours worked (millions)	-	3.9	7.9	-12.7	0.1	-0.4	4.9	0.3	2.6	-1.7	7.6	2.8	-3.8	-3.1	-4.9
Wages and salaries (\$ millions)	-	12.0	11.1	-10.5	4.4	2.8	7.5	2.9	4.4	-0.9	8.6	3.9	5.0	2.5	-2.4
Average annual hours worked	-	0.1	-0.6	-0.3	-0.8	-0.5	3.2	-0.1	0.0	-0.9	-1.3	1.2	-1.5	-2.5	-0.8
Average annual wages and salaries (\$)	-	7.8	2.4	2.2	3.4	2.7	5.7	2.5	1.6	-0.1	-0.4	2.3	7.5	3.1	1.8
Average hourly wage (\$)	-	7.7	3.0	2.5	4.2	3.3	2.4	2.6	1.7	0.8	0.9	1.1	9.1	5.8	2.6
Accommodation Service Managers (A222)															
Number of jobs	-	7.5	10.6	-8.5	3.8	0.3	1.3	-0.7	5.6	3.8	17.5	4.8	-3.9	-10.3	-7.6
Hours worked (millions)	-	6.9	10.3	-9.0	1.1	-3.2	5.9	2.9	8.3	-1.7	11.8	3.1	-1.3	-12.6	-7.5
Wages and salaries (\$ millions)	-	15.3	13.6	-6.5	6.4	0.8	9.4	6.0	9.2	-1.0	12.6	3.7	7.0	-6.7	-4.8
Average annual hours worked	-	-0.6	-0.2	-0.6	-2.6	-3.5	4.5	3.6	2.6	-5.3	-4.9	-1.7	2.8	-2.6	0.2
Average annual wages and salaries (\$)	-	7.3	2.7	2.2	2.5	0.6	8.0	6.7	3.4	-4.6	-4.2	-1.1	11.4	4.1	3.1
Average hourly wage (\$)	-	7.9	3.0	2.8	5.2	4.2	3.4	3.0	0.8	0.6	0.7	0.6	8.4	6.8	2.9
Other Managers (A, excl. A222)															
Number of jobs	-	6.8	22.2	-16.4	-5.9	-6.3	-4.8	-1.4	10.8	6.3	16.8	4.0	3.3	-4.1	-5.7
Hours worked (millions)	-	4.9	17.9	-15.8	-7.0	-4.1	-2.9	-2.1	6.4	3.0	15.4	6.0	0.9	-8.7	-8.6
Wages and salaries (\$ millions)	-	12.9	21.2	-13.3	-2.2	0.5	0.6	1.3	8.3	3.7	16.2	6.9	9.3	-2.4	-5.9
Average annual hours worked	-	-1.8	-3.5	0.7	-1.1	2.3	2.0	-0.7	-3.9	-3.1	-1.2	1.9	-2.3	-4.8	-3.1
Average annual wages and salaries (\$)	-	5.7	-0.7	3.7	4.0	7.2	5.7	2.8	-2.2	-2.5	-0.5	2.8	5.8	1.8	-0.2
Average hourly wage (\$)	-	7.7	2.9	3.0	5.2	4.8	3.6	3.5	1.7	0.6	0.7	0.9	8.3	6.9	3.0
Business, Finance and Administrative Occupations (B)															
Number of jobs	-	6.5	4.3	-16.0	-9.5	-7.9	0.2	7.3	10.6	1.5	-2.0	6.1	-3.6	12.5	-4.8
Hours worked (millions)	-	6.1	2.7	-16.1	-10.5	-8.4	3.7	7.5	10.8	-1.1	-3.4	6.4	-3.5	9.4	-5.6
Wages and salaries (\$ millions)	-	13.4	5.0	-11.0	-4.8	-2.8	9.7	12.5	9.7	-2.0	4.6	5.9	3.7	15.2	-2.9
Average annual hours worked	-	-0.4	-1.6	0.0	-1.1	-0.5	3.5	0.2	0.2	-2.6	-1.5	0.3	0.1	-2.8	-0.8
Average annual wages and salaries (\$)	-	6.5	0.7	6.0	5.3	5.5	9.5	4.9	-0.7	-3.5	-2.7	-0.1	7.6	2.4	2.0
Average hourly wage (\$)	-	6.9	2.3	6.0	6.4	6.1	5.7	4.6	-0.9	-1.0	-1.2	-0.4	7.5	5.3	2.9
Sales and Service Supervisors (G01)															
Number of jobs	-	9.3	7.8	-21.4	-5.9	-1.9	7.8	8.4	6.8	-0.5	6.9	11.8	5.7	8.3	5.7
Hours worked (millions)	-	10.5	8.1	-20.5	-5.5	0.2	7.7	7.6	6.2	1.8	6.1	11.5	0.5	8.5	5.1
Wages and salaries (\$ millions)	-	19.2	10.7	-18.7	-0.2	4.4	10.5	10.9	5.8	0.6	4.8	11.3	6.1	14.9	7.7
Average annual hours worked	-	1.1	0.3	1.1	0.4	2.2	-0.1	-0.8	-0.5	2.3	-0.8	-0.3	-4.9	0.2	-0.5
Average annual wages and salaries (\$)	-	9.0	2.7	3.4	6.1	6.5	2.5	2.3	-0.9	1.2	-2.0	-0.5	0.4	6.1	1.9
Average hourly wage (\$)	-	7.9	2.4	2.3	5.7	4.2	2.6	3.1	-0.4	-1.2	-1.3	-0.2	5.6	5.9	2.4
Chefs and Cooks (G41)															
Number of jobs	-	-0.8	0.9	-8.9	5.8	3.9	-4.5	-3.6	-2.7	-2.9	12.1	0.2	0.9	-4.4	-2.3
Hours worked (millions)	-	0.1	1.8	-9.4	4.8	2.8	-2.1	-3.4	-2.7	-4.0	10.3	1.8	0.0	-6.1	-2.4
Wages and salaries (\$ millions)	-	7.6	4.6	-7.1	9.3	5.4	-0.3	-1.8	-2.0	-3.7	10.5	1.9	8.3	-0.3	0.2
Average annual hours worked	-	0.9	0.9	-0.6	-1.0	-1.0	2.5	0.2	0.1	-1.1	-1.6	1.6	-0.9	-1.8	-0.1
Average annual wages and salaries (\$)	-	8.5	3.7	1.9	3.3	1.5	4.3	1.9	0.8	-0.9	-1.5	1.8	7.3	4.3	2.6
Average hourly wage (\$)	-	7.5	2.8	2.5	4.3	2.5	1.8	1.6	0.7	0.3	0.1	0.2	8.3	6.2	2.7

Tourism estimates

Table A2f: Number of full-time employee, hours worked, and employment earnings, by occupations, Canada, annual percentage changes, 1988-2002

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Accommodation Services (NAICS 721)															
<i>(excluding NAICS 7213)</i>															
Occupations in Food and Beverage Service (G51)															
Number of jobs	-	0.4	4.5	-15.9	3.0	-0.3	2.2	-8.0	-4.0	-9.6	8.3	-1.6	-4.6	-4.4	-6.3
Hours worked (millions)	-	-0.8	2.6	-16.8	3.1	0.2	5.9	-8.3	-5.3	-10.1	7.2	-0.7	-7.1	-7.1	-7.2
Wages and salaries (\$ millions)	-	6.6	5.7	-15.5	7.2	2.9	7.7	-7.1	-3.1	-8.2	9.4	1.5	2.4	-1.1	-4.4
Average annual hours worked	-	-1.2	-1.8	-1.2	0.2	0.5	3.6	-0.3	-1.3	-0.5	-1.0	0.9	-2.7	-2.8	-0.9
Average annual wages and salaries (\$)	-	6.2	1.2	0.4	4.1	3.2	5.4	1.0	1.0	1.6	1.0	3.2	7.3	3.4	2.0
Average hourly wage (\$)	-	7.5	3.0	1.6	3.9	2.7	1.8	1.3	2.3	2.1	2.1	2.3	10.3	6.5	2.9
Hotel Front Desk Clerks (G715)															
Number of jobs	-	6.6	17.9	-6.0	6.4	4.1	12.4	7.3	2.9	-6.7	8.6	2.9	2.2	8.9	0.0
Hours worked (millions)	-	5.4	16.3	-5.1	6.1	4.0	15.5	5.6	2.9	-6.9	8.2	3.3	0.2	8.6	0.3
Wages and salaries (\$ millions)	-	13.4	19.2	-1.2	12.2	9.0	20.1	8.7	2.9	-7.1	7.5	3.1	7.8	15.2	2.9
Average annual hours worked	-	-1.1	-1.3	0.9	-0.3	-0.1	2.8	-1.5	0.0	-0.1	-0.4	0.4	-2.0	-0.2	0.3
Average annual wages and salaries (\$)	-	6.4	1.1	5.0	5.4	4.7	6.9	1.3	0.0	-0.4	-1.0	0.2	5.5	5.8	2.9
Average hourly wage (\$)	-	7.6	2.5	4.1	5.8	4.8	4.0	2.9	0.0	-0.2	-0.6	-0.2	7.6	6.0	2.6
Cleaners (G93)															
Number of jobs	-	3.2	8.4	-9.9	4.5	1.9	-0.3	-0.1	7.3	0.8	9.7	0.4	-3.6	1.7	-5.9
Hours worked (millions)	-	2.8	9.0	-11.5	4.3	1.4	3.8	-0.9	5.8	0.4	8.3	3.1	-5.9	0.6	-6.6
Wages and salaries (\$ millions)	-	10.7	12.1	-8.8	9.7	5.5	7.2	2.1	6.7	0.8	8.7	3.9	1.7	6.8	-3.9
Average annual hours worked	-	-0.3	0.6	-1.7	-0.2	-0.5	4.1	-0.8	-1.4	-0.4	-1.2	2.7	-2.4	-1.1	-0.7
Average annual wages and salaries (\$)	-	7.3	3.5	1.3	5.0	3.5	7.5	2.2	-0.5	0.0	-0.9	3.5	5.6	5.0	2.2
Average hourly wage (\$)	-	7.6	2.9	3.0	5.2	4.1	3.3	3.0	0.8	0.4	0.3	0.8	8.2	6.2	2.9
Food Counter Attendants and Kitchen Helpers (G96)															
Number of jobs	-	7.2	16.7	-17.3	2.0	-5.5	3.0	-11.4	-11.0	-5.1	12.4	8.7	-1.8	2.4	-7.3
Hours worked (millions)	-	8.4	11.5	-17.8	-1.5	-3.1	5.8	-11.0	-12.3	-6.6	7.9	15.1	-2.3	1.9	-10.1
Wages and salaries (\$ millions)	-	16.9	14.5	-17.6	1.8	-0.9	6.5	-10.3	-11.4	-6.0	8.5	16.5	5.5	8.2	-7.3
Average annual hours worked	-	1.1	-4.5	-0.6	-3.4	2.5	2.7	0.4	-1.5	-1.5	-4.0	5.8	-0.5	-0.5	-3.0
Average annual wages and salaries (\$)	-	9.0	-1.9	-0.3	-0.2	4.9	3.4	1.2	-0.5	-0.9	-3.4	7.2	7.5	5.6	0.0
Average hourly wage (\$)	-	7.8	2.7	0.3	3.4	2.3	0.7	0.8	1.0	0.6	0.5	1.2	8.0	6.2	3.1
All other occupations in Accommodation Services															
Number of jobs	-	3.7	8.2	-12.7	-3.6	0.9	2.9	6.6	0.1	3.1	4.7	-2.7	-5.2	-5.3	-2.5
Hours worked (millions)	-	5.4	7.6	-12.1	-3.5	0.5	6.4	5.3	0.5	4.1	4.6	-1.7	-8.8	-8.9	-3.8
Wages and salaries (\$ millions)	-	13.6	10.7	-12.0	1.2	2.0	6.7	5.1	3.4	6.8	7.2	0.6	1.7	-3.2	-1.1
Average annual hours worked	-	1.6	-0.6	0.7	-0.2	-0.4	3.3	-1.2	0.4	1.0	-0.2	1.0	-3.9	-3.8	-1.3
Average annual wages and salaries (\$)	-	9.5	2.4	0.7	2.5	1.0	3.7	-1.4	3.3	3.6	2.3	3.4	7.3	2.2	1.4
Average hourly wage (\$)	-	7.8	3.0	0.1	2.3	1.5	0.4	-0.2	2.8	2.6	2.5	2.3	11.5	6.2	2.7

Tourism estimates

Table A2g: Number of part-time employee, hours worked, and employment earnings, by occupations, Canada, 1988-2002
(excluding NAICS 7213)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Accommodation Services (NAICS 721)															
All occupations in Accommodation Services															
Number of jobs	28,893	29,120	30,815	30,658	31,769	32,119	32,932	31,483	31,405	31,078	30,686	32,058	30,860	29,845	32,076
Hours worked (millions)	26.6	26.3	27.4	26.3	27.9	27.8	28.6	28.0	27.6	27.1	27.6	27.1	26.8	26.8	28.7
Wages and salaries (\$ millions)	168.2	177.4	188.4	189.2	212.0	217.9	227.0	227.0	221.6	215.2	211.8	206.1	219.8	234.7	268.1
Average annual hours worked	921	904	890	857	879	867	867	889	879	871	898	847	869	899	894
Average annual wages and salaries (\$)	5,821	6,090	6,114	6,171	6,672	6,783	6,909	7,210	7,057	6,925	6,902	6,429	7,123	7,863	8,357
Average hourly wage (\$)	6.32	6.74	6.87	7.20	7.59	7.82	7.97	8.11	8.03	7.95	7.69	7.59	8.19	8.75	9.35
Accommodation Service Managers (A222)															
Number of jobs	440	538	609	698	691	666	642	617	694	595	633	799	917	929	939
Hours worked (millions)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Wages and salaries (\$ millions)	8	10	11	13	13	11	11	10	10	8	9	11	14	15	16
Average annual hours worked	1,455	1,377	1,294	1,302	1,283	1,230	1,247	1,236	1,156	1,035	1,159	1,075	1,070	1,064	1,078
Average annual wages and salaries (\$)	18,942	18,741	18,006	18,591	18,402	17,090	16,820	15,890	14,844	13,395	14,703	13,710	15,101	15,969	17,378
Average hourly wage (\$)	13.02	13.61	13.91	14.27	14.34	13.90	13.49	12.86	12.84	12.94	12.69	12.75	14.12	15.01	16.12
Other Managers (A, excl. A222)															
Number of jobs	230	195	205	164	171	156	226	217	284	333	381	386	330	401	443
Hours worked (millions)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Wages and salaries (\$ millions)	2	2	2	2	2	2	3	3	5	6	7	8	7	10	13
Average annual hours worked	1,481	1,368	1,409	1,337	1,364	1,195	1,200	1,247	1,209	1,071	1,134	1,168	1,136	1,226	1,299
Average annual wages and salaries (\$)	8,691	8,420	8,992	9,427	10,891	10,750	12,302	14,722	16,921	16,738	18,980	20,638	21,648	25,241	28,489
Average hourly wage (\$)	5.87	6.15	6.38	7.05	7.98	9.00	10.25	11.81	14.00	15.63	16.74	17.67	19.06	20.58	21.94
Business, Finance and Administrative Occupations (B)															
Number of jobs	1,152	1,365	1,583	1,626	1,365	1,076	1,079	1,092	1,334	1,528	1,753	1,575	1,360	1,353	1,548
Hours worked (millions)	1	1	2	2	1	1	1	1	1	2	2	1	1	1	2
Wages and salaries (\$ millions)	10	12	13	13	13	11	12	12	15	17	17	14	12	13	15
Average annual hours worked	1,117	1,059	1,041	942	987	975	970	973	992	1,038	1,033	951	965	1,014	1,018
Average annual wages and salaries (\$)	8,359	8,466	8,287	8,201	9,581	10,394	11,107	11,014	10,979	10,869	9,827	8,601	8,577	9,299	9,945
Average hourly wage (\$)	7.48	8.00	7.96	8.70	9.71	10.66	11.45	11.32	11.06	10.47	9.51	9.04	8.89	9.17	9.77
Sales and Service Supervisors (G01)															
Number of jobs	350	325	300	324	341	342	378	337	347	305	319	369	328	267	225
Hours worked (millions)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wages and salaries (\$ millions)	3	3	3	3	3	3	4	3	3	3	3	3	3	3	2
Average annual hours worked	1,242	1,167	1,225	1,056	1,100	1,084	1,138	1,098	1,053	967	1,040	991	1,058	1,047	1,012
Average annual wages and salaries (\$)	7,915	8,326	8,880	8,010	8,818	8,926	9,618	9,509	9,020	8,290	8,707	8,275	9,707	10,001	10,454
Average hourly wage (\$)	6.37	7.13	7.25	7.58	8.02	8.24	8.45	8.66	8.57	8.57	8.37	8.35	9.17	9.55	10.33
Chefs and Cooks (G41)															
Number of jobs	1,134	1,177	1,187	1,276	1,292	1,495	1,396	1,422	1,366	1,241	1,196	1,270	1,242	1,183	1,221
Hours worked (millions)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Wages and salaries (\$ millions)	8	8	8	9	10	12	11	12	11	10	9	8	10	11	12
Average annual hours worked	1,020	1,019	987	963	954	945	948	930	974	970	1,020	909	1,004	1,092	1,161

Tourism estimates

Table A2g: Number of part-time employee, hours worked, and employment earnings, by occupations, Canada, 1988-2002

Accommodation Services (NAICS 721) <i>(excluding NAICS 7213)</i>		1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Average annual wages and salaries (\$)		6,630	7,020	6,885	7,126	7,598	7,885	8,209	8,373	8,350	8,042	7,899	6,656	7,702	8,944	10,165
Average hourly wage (\$)		6.50	6.89	6.97	7.40	7.96	8.35	8.66	9.01	8.58	8.29	7.75	7.32	7.67	8.19	8.76
Occupations in Food and Beverage Service (G51)																
Number of jobs		7,333	7,409	8,099	8,192	8,710	8,458	8,613	7,802	7,084	6,430	6,009	6,495	5,860	5,759	5,941
Hours worked (millions)		7	7	7	7	8	7	8	7	6	6	6	6	5	5	5
Wages and salaries (\$ millions)		45	47	51	50	59	60	63	60	53	49	45	45	44	48	53
Average annual hours worked		913	892	866	832	873	877	897	930	915	927	943	877	868	897	889
Average annual wages and salaries (\$)		6,076	6,283	6,236	6,147	6,800	7,037	7,266	7,651	7,442	7,550	7,503	6,949	7,591	8,335	8,867
Average hourly wage (\$)		6.65	7.04	7.20	7.39	7.79	8.02	8.10	8.23	8.13	8.15	7.96	7.92	8.75	9.29	9.97
Hotel Front Desk Clerks (G715)																
Number of jobs		1,953	1,986	2,128	2,407	2,617	2,570	2,824	2,707	2,765	2,732	2,748	2,927	3,165	3,325	3,752
Hours worked (millions)		2	2	2	2	3	3	3	3	3	3	3	3	3	3	4
Wages and salaries (\$ millions)		13	13	13	15	19	20	23	23	23	22	21	23	26	29	33
Average annual hours worked		1,140	1,085	1,029	941	1,001	998	1,007	1,041	1,016	1,014	1,062	1,038	1,008	1,029	980
Average annual wages and salaries (\$)		6,506	6,505	6,336	6,246	7,240	7,652	8,045	8,643	8,219	8,066	7,734	7,743	8,191	8,769	8,883
Average hourly wage (\$)		5.71	6.00	6.16	6.63	7.24	7.67	7.99	8.31	8.09	7.95	7.28	7.46	8.13	8.52	9.06
Cleaners (G93)																
Number of jobs		8,629	8,197	8,640	8,260	8,760	9,146	9,446	9,445	10,069	10,501	10,536	10,409	9,908	8,966	9,721
Hours worked (millions)		7	7	7	7	7	8	8	8	8	9	9	8	8	7	8
Wages and salaries (\$ millions)		42	41	44	43	50	54	57	60	62	63	63	56	60	59	68
Average annual hours worked		854	844	839	813	836	822	813	832	827	813	840	782	815	824	821
Average annual wages and salaries (\$)		4,813	5,026	5,115	5,203	5,726	5,926	6,035	6,403	6,196	6,020	5,968	5,391	6,081	6,543	6,965
Average hourly wage (\$)		5.64	5.96	6.10	6.40	6.85	7.21	7.43	7.69	7.49	7.40	7.11	6.89	7.46	7.94	8.49
Food Counter Attendants and Kitchen Helpers (G96)																
Number of jobs		2,339	2,532	2,791	2,745	2,940	2,893	2,970	2,542	2,482	2,352	2,310	2,381	2,276	2,441	2,780
Hours worked (millions)		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Wages and salaries (\$ millions)		9	10	12	11	13	13	13	12	11	11	10	10	11	13	16
Average annual hours worked		757	742	747	716	730	714	721	775	733	739	753	729	744	767	765
Average annual wages and salaries (\$)		3,987	4,139	4,248	4,117	4,388	4,375	4,402	4,757	4,468	4,536	4,519	4,339	4,870	5,428	5,777
Average hourly wage (\$)		5.26	5.58	5.69	5.75	6.01	6.13	6.10	6.14	6.10	6.14	6.00	5.95	6.55	7.08	7.55
All other occupations in Accommodation Services																
Number of jobs		5,333	5,397	5,272	4,966	4,883	5,317	5,358	5,300	4,979	5,061	4,802	5,447	5,475	5,221	5,506
Hours worked (millions)		5	5	5	4	4	4	4	4	4	4	4	4	5	5	5
Wages and salaries (\$ millions)		30	32	32	30	30	33	31	31	28	28	26	28	33	35	39
Average annual hours worked		878	878	877	863	849	835	802	809	803	789	804	772	825	873	871
Average annual wages and salaries (\$)		5,593	5,921	5,989	6,036	6,192	6,155	5,875	5,887	5,702	5,553	5,448	5,117	5,968	6,667	7,117
Average hourly wage (\$)		6.37	6.74	6.83	6.99	7.29	7.37	7.32	7.27	7.11	7.03	6.78	6.63	7.24	7.64	8.17

Tourism estimates

Table A2h: Number of part-time employee, hours worked, and employment earnings, by occupations, Canada, annual percentage changes, 1988-2002

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Accommodation Services (NAICS 721) <i>(excluding NAICS 7213)</i>															
All occupations in Accommodation Services															
Number of jobs	-	0.8	5.8	-0.5	3.6	1.1	2.5	-4.4	-0.2	-1.0	-1.3	4.5	-3.7	-3.3	7.5
Hours worked (millions)	-	-1.0	4.2	-4.2	6.2	-0.3	2.5	-2.0	-1.3	-2.0	1.8	-1.5	-1.2	0.0	6.9
Wages and salaries (\$ millions)	-	5.4	6.2	0.4	12.0	-1.3	4.4	-0.2	-2.4	-2.9	-1.6	-2.7	6.7	6.8	14.2
Average annual hours worked	-	-1.8	-1.6	-3.7	2.5	-1.3	0.0	2.5	-1.1	-0.9	3.1	-5.7	2.7	3.4	-0.6
Average annual wages and salaries (\$)	-	4.6	0.4	0.9	8.1	1.7	1.9	4.4	-2.1	-1.9	-0.3	-6.9	10.8	10.4	6.3
Average hourly wage (\$)	-	6.5	2.0	4.8	5.5	3.0	1.8	1.8	-1.1	-0.9	-3.4	-1.2	7.9	6.7	6.9
Accommodation Service Managers (A222)															
Number of jobs	-	22.4	13.2	14.5	-0.9	-3.6	-3.7	-3.8	12.4	-14.2	6.3	26.3	14.7	1.4	1.0
Hours worked (millions)	-	15.8	6.4	15.3	-2.3	-7.7	-2.3	-4.7	5.2	-23.2	19.1	17.1	14.2	0.8	2.3
Wages and salaries (\$ millions)	-	21.1	8.7	18.3	-1.9	-10.5	-5.2	-9.1	5.0	-22.6	16.7	17.7	26.4	7.2	9.9
Average annual hours worked	-	-5.4	-6.0	0.6	-1.5	-4.2	1.4	-0.9	-6.4	-10.5	12.0	-7.2	-0.5	-0.6	1.4
Average annual wages and salaries (\$)	-	-1.1	-3.9	3.3	-1.0	-7.1	-1.6	-5.5	-6.6	-9.8	9.8	-6.8	10.1	5.8	8.8
Average hourly wage (\$)	-	4.5	2.2	2.6	0.4	-3.1	-3.0	-4.7	-0.2	0.8	-2.0	0.5	10.7	6.3	7.4
Other Managers (A, excl. A222)															
Number of jobs	-	-15.3	5.3	-19.9	4.0	-8.8	45.1	-4.1	30.8	17.4	14.3	1.5	-14.5	21.4	10.5
Hours worked (millions)	-	-21.8	8.4	-24.0	6.2	-20.2	45.7	-0.4	26.8	4.0	21.1	4.6	-16.9	31.1	17.0
Wages and salaries (\$ millions)	-	-18.0	12.5	-16.0	20.1	-10.0	66.0	14.8	50.4	16.1	29.6	10.4	-10.4	41.6	24.7
Average annual hours worked	-	-7.6	3.0	-5.1	2.1	-12.4	0.5	3.9	-3.1	-11.4	5.9	3.0	-2.8	8.0	5.9
Average annual wages and salaries (\$)	-	-3.1	6.8	4.8	15.5	-1.3	14.4	19.7	14.9	-1.1	13.4	8.7	4.9	16.6	12.9
Average hourly wage (\$)	-	4.9	3.7	10.5	13.2	12.7	13.9	15.2	18.6	11.7	7.1	5.5	7.9	8.0	6.6
Business, Finance and Administrative Occupations (B)															
Number of jobs	-	18.5	16.0	2.7	-16.0	-21.2	0.3	1.2	22.2	14.5	14.7	-10.2	-13.6	-0.5	14.4
Hours worked (millions)	-	12.3	14.0	-7.0	-12.1	-22.1	-0.2	1.5	24.7	19.8	14.2	-17.3	-12.3	4.6	14.8
Wages and salaries (\$ millions)	-	20.0	13.5	1.6	-1.9	-14.5	7.2	0.3	21.8	13.4	3.7	-21.4	-13.9	7.9	22.4
Average annual hours worked	-	-5.2	-1.7	-9.4	4.7	-1.2	-0.5	0.3	2.0	4.6	-0.4	-8.0	1.5	5.1	0.4
Average annual wages and salaries (\$)	-	1.3	-2.1	-1.0	16.8	8.5	6.9	-0.8	-0.3	-1.0	-9.6	-12.5	-0.3	8.4	6.9
Average hourly wage (\$)	-	6.8	-0.4	9.3	11.6	9.8	7.4	-1.2	-2.3	-5.3	-9.2	-4.9	-1.7	3.2	6.6
Sales and Service Supervisors (G01)															
Number of jobs	-	-7.2	-7.5	8.0	5.0	0.4	10.5	-10.8	2.8	-11.9	4.3	15.9	-11.2	-18.6	-15.6
Hours worked (millions)	-	-12.8	-2.9	-6.9	9.3	-1.1	16.1	-13.9	-1.4	-19.1	12.2	10.4	-5.2	-19.5	-18.4
Wages and salaries (\$ millions)	-	-2.4	-1.3	-2.6	15.6	1.6	19.1	-11.8	-2.5	-19.1	9.6	10.1	4.1	-16.1	-11.8
Average annual hours worked	-	-6.0	5.0	-13.8	4.1	-1.5	5.0	-3.5	-4.1	-8.1	7.5	-4.7	6.8	-1.1	-3.3
Average annual wages and salaries (\$)	-	5.2	6.7	-9.8	10.1	1.2	7.8	-1.1	-5.1	-8.1	5.0	-5.0	17.3	3.0	4.5
Average hourly wage (\$)	-	11.9	1.6	4.6	5.7	2.7	2.6	2.5	-1.1	0.0	-2.3	-0.3	9.9	4.2	8.1
Chefs and Cooks (G41)															
Number of jobs	-	3.8	0.9	7.4	1.3	15.7	-6.7	1.9	-4.0	-9.2	-3.6	6.2	-2.2	-4.8	3.2
Hours worked (millions)	-	3.8	-2.3	4.8	0.4	14.6	-6.3	-0.1	0.6	-9.5	1.3	-5.3	8.0	3.5	9.8
Wages and salaries (\$ millions)	-	9.9	-1.1	11.2	8.0	20.0	-2.8	4.0	-4.2	-12.5	-5.3	-10.5	13.2	10.6	17.3
Average annual hours worked	-	0.0	-3.2	-2.5	-0.9	-1.0	0.4	-1.9	4.7	-0.3	5.1	-10.8	10.4	8.7	6.4
Average annual wages and salaries (\$)	-	5.9	-1.9	3.5	6.6	3.8	4.1	2.0	-0.3	-3.7	-1.8	-15.7	15.7	16.1	13.7
Average hourly wage (\$)	-	5.9	1.3	6.1	7.6	4.8	3.7	4.0	-4.8	-3.4	-6.5	-5.5	4.8	6.8	6.9

Tourism estimates

Table A2h: Number of part-time employee, hours worked, and employment earnings, by occupations, Canada, annual percentage changes, 1988-2002

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Accommodation Services (NAICS 721) (excluding NAICS 7213)															
Occupations in Food and Beverage Service (G51)															
Number of jobs	-	1.0	9.3	1.1	6.3	-2.9	1.8	-9.4	-9.2	-9.2	-6.5	8.1	-9.8	-1.7	3.2
Hours worked (millions)	-	-1.3	6.1	-2.9	11.7	-2.5	4.1	-6.1	-10.6	-8.1	-4.9	0.6	-10.7	1.6	2.2
Wages and salaries (\$ millions)	-	4.5	8.5	-0.3	17.6	0.5	5.1	-4.6	-11.7	-7.9	-7.1	0.1	-1.4	7.9	9.8
Average annual hours worked	-	-2.3	-2.9	-4.0	5.0	0.4	2.2	3.7	-1.6	1.2	1.7	-6.9	-1.1	3.4	-0.9
Average annual wages and salaries (\$)	-	3.4	-0.7	-1.4	10.6	3.5	3.2	5.3	-2.7	1.5	-0.6	-7.4	9.2	9.8	6.4
Average hourly wage (\$)	-	5.8	2.2	2.7	5.3	3.0	1.0	1.6	-1.2	0.2	-2.3	-0.5	10.4	6.2	7.4
Hotel Front Desk Clerks (G715)															
Number of jobs	-	1.7	7.2	13.1	8.7	-1.8	9.9	-4.1	2.1	-1.2	0.6	6.5	8.1	5.1	12.8
Hours worked (millions)	-	-3.2	1.6	3.5	15.6	-2.0	10.8	-0.9	-0.3	-1.4	5.4	4.1	5.0	7.2	7.5
Wages and salaries (\$ millions)	-	1.7	4.4	11.5	26.0	3.8	15.5	3.0	-2.9	-3.0	-3.6	6.6	14.4	12.5	14.3
Average annual hours worked	-	-4.8	-5.2	-8.5	6.3	-0.2	0.8	3.4	-2.3	-0.2	4.8	-2.3	-2.9	2.1	-4.8
Average annual wages and salaries (\$)	-	0.0	-2.6	-1.4	15.9	5.7	5.1	7.4	-4.9	-1.9	-4.1	0.1	5.8	7.1	1.3
Average hourly wage (\$)	-	5.1	2.7	7.7	9.1	6.0	4.2	3.9	-2.6	-1.6	-8.5	2.5	8.9	4.9	6.4
Cleaners (G93)															
Number of jobs	-	-5.0	5.4	-4.4	6.0	4.4	3.3	0.0	6.6	4.3	0.3	-1.2	-4.8	-9.5	8.4
Hours worked (millions)	-	-6.1	4.8	-7.4	9.0	2.7	2.1	2.4	6.0	2.5	3.6	-8.0	-0.8	-8.6	8.0
Wages and salaries (\$ millions)	-	-0.8	7.3	-2.8	16.7	8.1	5.2	6.1	3.2	1.3	-0.5	-10.8	7.4	-2.6	15.4
Average annual hours worked	-	-1.1	-0.6	-3.1	2.8	-1.7	-1.2	2.4	-0.6	-1.7	3.3	-6.9	4.2	1.0	-0.4
Average annual wages and salaries (\$)	-	4.4	1.8	1.7	10.1	3.5	1.8	6.1	-3.2	-2.9	-0.9	-9.7	12.8	7.6	6.4
Average hourly wage (\$)	-	5.6	2.3	5.0	7.1	5.2	3.0	3.6	-2.7	-1.2	-4.0	-3.0	8.2	6.5	6.8
Food Counter Attendants and Kitchen Helpers (G96)															
Number of jobs	-	8.2	10.2	-1.6	7.1	-1.6	2.7	-14.4	-2.4	-5.2	-1.8	3.1	-4.4	7.3	13.9
Hours worked (millions)	-	6.0	11.0	-5.7	9.2	-3.8	3.7	-8.0	-7.7	-4.5	0.2	-0.2	-2.5	10.6	13.5
Wages and salaries (\$ millions)	-	12.4	13.2	-4.7	14.1	-1.9	3.3	-7.5	-8.3	-3.8	-2.1	-1.0	7.3	19.5	21.2
Average annual hours worked	-	-2.1	0.7	-4.1	2.0	-2.2	1.0	7.4	-5.4	0.8	2.0	-3.2	2.0	3.1	-0.3
Average annual wages and salaries (\$)	-	3.8	2.6	-3.1	6.6	-0.3	0.6	8.1	-6.1	1.5	-0.4	-4.0	12.3	11.4	6.4
Average hourly wage (\$)	-	6.0	1.9	1.0	4.5	2.0	-0.4	0.6	-0.7	0.7	-2.3	-0.8	10.0	8.1	6.8
All other occupations in Accommodation Services															
Number of jobs	-	1.2	-2.3	-5.8	-1.7	8.9	0.8	-1.1	-6.1	1.6	-5.1	13.4	0.5	-4.6	5.5
Hours worked (millions)	-	1.2	-2.5	-7.2	-3.3	7.0	-3.2	-0.2	-6.8	0.0	-3.4	9.0	7.4	0.9	5.2
Wages and salaries (\$ millions)	-	7.1	-1.2	-5.1	0.9	8.2	-3.8	-0.9	-9.0	-1.0	-6.9	6.6	17.2	6.5	12.6
Average annual hours worked	-	0.0	-0.2	-1.5	-1.6	-1.7	-3.9	0.9	-0.8	-1.6	1.8	-4.0	6.9	5.9	-0.2
Average annual wages and salaries (\$)	-	5.9	1.2	0.8	2.6	-0.6	-4.5	0.2	-1.9	-2.6	-1.9	-6.1	16.6	11.7	6.7
Average hourly wage (\$)	-	5.8	1.3	2.3	4.3	1.1	-0.6	-0.7	-2.3	-1.0	-3.6	-2.2	9.1	5.5	7.0

Appendix B: Detailed methodology

The basic methodology consists essentially of five steps:

- (1) taking SNA totals for jobs, hours worked, and wages and salaries,
- (2) distributing the employee totals for 1990, 1995 and 2000 across occupations based on Census data,
- (3) building time series from these benchmarks based on corresponding time series from the LFS and/or industry surveys,
- (4) smoothing the detailed occupational time series, while maintaining the overall industry totals, in order to reduce volatility at the detailed level,
- (5) making manual adjustments to data values that appear out of line or inconsistent with other related series – this completes the total employment part of the methodology
- (6) adjusting the totals from above by the share of tourism employment in total employment as determined from the NTI and the SNA, leaving averages unchanged – to complete the tourism employment part of the methodology

This appendix describes the methodology and implicit assumptions in more detail.

Step 1: Benchmark totals

The industry totals on jobs, hours worked, labour income and wages and salaries, including the details by class of worker (employee or self-employed) and by full- and part-time status, come from the SNA.

These data did not exactly meet our requirements, however, and a number of adjustments were needed. In particular:

- (1) it was necessary to split wages and salaries between full- and part-time employee jobs (as this split is not presently available),
- (2) the labour income component of mixed income for self-employment jobs is imputed here,
- (3) for the period 1997-2002, the SNA provides series for Traveller Accommodation (7211) and for the rest of Accommodation Services thus requiring a split out of Rooming and Boarding Houses, and
- (4) for the period 1988-1996, the SNA data are still under development and now only a series for Accommodation and Food Services combined is maintained, both of which required several adjustments.

(1) The split of wages and salaries between full- and part-time jobs is made as follows:

- the full-time share is initially set equal to the full-time share of hours worked (so if full-time employees account for 70% of hours worked, they are allocated 70% of wages and salaries);
- this initial estimate is adjusted with Census data on the extent to which the full-time share of wages and salaries exceeds the full-time share of hours worked (so if full-time employee jobs account for 72% of the earnings and 70% of the hours, the estimate in the first step is raised by 2.9%, or a factor of $1.029 = 72/70$ – see Table C1 below for Accommodation in 1995);
- this adjustment factor is interpolated between 1990 and 2000 (so if the 1995 factor is 1.029 and the one for 2000 is 1.039, the adjustment between these two years increases by 0.2 percentage points per year);
- for 1988 and 1989, the 1990 adjustment factor is used, and for 2001 and 2002, the 2000 factor is used.

Table B1 below shows the adjustment factors.

Table B1: Adjustment factors for split of wages and salaries between full-time and part-time jobs

Industry	1990	1995	2000
Air Transportation	1.012	1.016	1.017
Accommodation Services	1.028	1.029	1.039
Adjustment factors are just the ratio of the full-time share of wages and salaries to the full-time share of hours worked by employees in each industry			

(2) The labour component of mixed income from self-employment is imputed by multiplying the hours worked in self-employment by the average hourly labour income per employee job. This has long been the practice in the SNA, although a new method was recently introduced because the procedure often resulted in estimates that exceeded mixed income.

The assumption that the self-employed and paid employees earn the same on average is questionable, but some assumption is needed to approximate the return to labour in the case of the self-employed. So, this number stands simply as a first approximation. It could be bounded by estimates of mixed income from the SNA, but this is not done here.

(3) The SNA jobs data for 1997 onward follow the SNA version of NAICS, which is simply a special aggregation that defines the working level industries of the I/O tables. At this level, detail is available only for all Air Transportation and for two parts of Accommodation Services, Traveller Accommodation (NAICS 7211) and RV Parks, Recreational Campgrounds and Rooming and Boarding Houses (7212 + 7213). The inclusion of Rooming and Boarding Houses requires an adjustment to remove it. This is done using details from SEPH on the industry's share of overall jobs, hours and earnings. These shares are used to adjust both employee and self-employment jobs.

(4) The SNA jobs data for the period before 1997 are aggregated even further to what is called the "link level". This is a special SNA aggregation of NAICS and SIC that is made to preserve the continuity of industry time series data throughout the SNA. At the link level, details on Air Transportation are available, but Accommodation Services and Food Services and Drinking Places are combined to Accommodation and Food Services (NAICS sector 72). As a result, these totals could not be used. In addition, because the historical series were under development and the SIC to NAICS transition was not fully dealt with, the totals for Air Transportation could not be used either.

In the case of Air Transportation, adjustments were made to the totals (on jobs and hours) and full-time shares to bring them in line with the data for 1997 onward. When the SNA data are finalized, these will just be brought in, and the adjustments will be dispensed with.

In the case of Accommodation, movements in SEPH series for jobs, hours worked and employment earnings in Accommodation Services (excluding Rooming and Boarding) were used to carry back the 1997 SNA totals (also excluding Rooming and Boarding), supplemented with Accommodation employment and labour income data for 1988-1991 prepared during the NTI historical revision. Movements in the SNA data for Accommodation and Food Services on full-time shares of jobs and hours over 1988 to 1996 were however used to carry back the 1997 full-time shares of the corresponding variables for Accommodation.

Step 2: Distribution of industry totals by occupation

The discussion here relates only to employee jobs, as occupational details were not developed for the self-employed. The Censuses of Population were used to distribute the industry totals established in the first step for the years 1990, 1995 and 2000 (i.e., the census reference years).

To develop occupational distributors for the industry totals, special census tabulations were done identifying persons in the pilot industries who had employment income in the reference year and were not self-employed. The selected persons were grouped according to their industry and whether they

worked mainly full- or part-time during the reference year. For each of these groups the distribution of the (weighted) sample by occupation was determined, as well as the distribution of total hours worked and wage and salary income. Table B2 shows the results.

Distributors of jobs by occupation

In the case of the occupational distributor for jobs, there are a few confounding issues. First, the census only provides a distributor for the occupation of the main job held during the reference week or, if none, the main job held since the start of the reference year. There is no accounting for persons with multiple jobs in possibly different occupations or industries. This is not a serious issue, however, as the distribution of occupation by main job is a good first approximation to the distribution of occupations across all jobs.

Second, because the reference period is the entire calendar year prior to the census (i.e., persons with employment income at any time during that year were selected), the estimated number of jobs is much higher than if measured over a shorter period of time like the single reference week in the monthly LFS. This is also not a serious issue, because the aim here is to estimate a distribution of occupations across jobs, not the total number (which comes from the SNA). Moreover, counting jobs over a longer time frame can serve to ease the effects of seasonality in employment that would be present if the data had been based only on persons employed during the May reference week.

Distributors of hours worked by occupation

The occupational distributor for hours worked is based on the distribution of total hours (jobs multiplied by average hours worked) across occupations within each industry. As such, the complications regarding jobs above carry over and there are additional issues with the hours worked. First, the hours worked variable is only collected for persons who are employed in the May reference week. To the extent that average hours worked in occupations are differentially affected by the season, this will distort the distributor. If, on the other hand, seasonal effects on hours of work are similar across occupations, seasonality would be of little concern.

Second, a small but not insignificant fraction of the experienced labour force do not report hours of work, because they are unemployed during the reference week. These people could be dropped from the tabulations, but that would involve loss of other information related to their main job including on their wages and salaries and their full- part-time status. Instead, their hours of work are imputed with the average hours of work for persons who are employed in the reference week, in the same industry and with the same full-or part-time status. The possibility of imputing on the basis of occupation as well was explored, although it appeared that controlling for industry and full- and part-time status would be sufficient, at least for the purposes of this study.

Third, the census variable on hours worked is for all jobs held, not only the main job. Hours worked at these additional jobs are in essence attributed to the pilot industry and the occupation of the main job of the multiple job-holder. On the other hand, there are offsetting effects because hours worked in the pilot industries by multiple job holders whose main job is in another industry are not captured. Overall, these effects are assumed to wash out.

Distributors of wages and salaries by occupation

Last, the occupational distributor for wages and salaries is based on the distribution of total wages and salaries (jobs multiplied by hours worked multiplied by hourly earnings) across occupations in each pilot industry. Again, the complications for jobs and hours worked above carry over.

An additional concern here is that the wages and salaries relate to earnings from all jobs held in the reference year but for some fraction of the sample none of these jobs will correspond to the main job held in the reference week. The reason is simply that some people change jobs. This is less of a concern for people with full-time jobs who tend to have more of a stable attachment to the labour force and for certain highly-skilled occupations (such as airline pilots, for instance). It is more of a concern for persons with part-time jobs in lowly-skilled occupations (such as food servers) who can more easily change jobs, occupation and industry.

However, there are offsetting effects. While some people move into the pilot industries or into certain occupations, others move out of them. This movement certainly introduces noise to the distributor, but it is not clear that it results in systematic biases. In order for biases to occur, people moving into occupations (in the pilot industries) would need to have systematically higher (or lower) earnings than people moving out of them, and these differences would need to vary across occupations. They would also have to vary significantly in order to affect the distributor, because the bulk of the sample consists of people who have not changed their jobs.

Other considerations

As mentioned earlier, NAICS was used on the 2001 Census while SIC was used on the 1991 and 1996 Censuses. No adjustments were made to the distributors for the differences between NAICS and SIC in the classification of Specialty Flying Services and Day Camps. We expect this hardly affected the distributors, as these are relatively small parts of the pilot industries.

Last, it is worth mentioning that the industry and occupation codes on the Census are classified by coders on the basis of respondent provided descriptions of the work they perform and the nature of the business for which they work. Despite rigorous training and checking, the coding process is subject to errors of varying degrees, depending on the occupation and the industry (some occupations and industries are easier for respondents to describe and for coders to correctly classify than others). Despite its limitations and shortcomings, the Census still provides the most detailed and reliable information on occupations and occupational distributions.

The census distributions by occupation

Table B2 below shows the census distributors for the three main variables (jobs, hours, and earnings) for each of the pilot industries. To help interpret the Table, the entry “7.4” in the top left-hand corner is the percentage of full-time managers among full-time employees in Air Transportation. Three columns over, in the same row, the entry “8.9”, is the percentage of hours worked by full-time managers out of all hours worked by full-time employees in Air Transportation.

These distributors were applied to the SNA totals for the corresponding years to provide occupational benchmarks for the various series on jobs, hours, wages, etc.

Table B2: Percentage distribution of main job, hours worked and gross wages and salaries by occupation, industry and full- part-time status

	Main job			Hours worked			Wages and salaries		
	1990	1995	2000	1990	1995	2000	1990	1995	2000
Air Transportation									
Full-time									
Management Occupations (A)	7.4	6.0	7.3	8.9	7.2	8.7	10.3	9.4	9.8
Business, Finance and Administrative Occupations (B)	15.3	13.2	11.4	15.5	13.6	11.9	11.2	9.9	8.8
Air Pilots, Flight Engineers and Flying Instructors (C171)	13.8	15.5	16.2	12.9	15.6	15.9	22.7	23.8	26.6
Other Natural and Applied Science and Related Occupations (C, ex. C171)	6.5	6.9	6.7	6.9	7.3	7.3	7.1	7.5	7.1
Pursers and Flight Attendants (G712)	12.6	15.5	16.8	9.7	11.9	13.0	9.8	12.2	12.9
Airline Sales and Service Agents (G713)	13.1	13.6	14.7	13.0	13.7	14.7	10.7	11.1	11.3
Aircraft Mechanics & Aircraft Inspectors (H415)	9.9	10.0	9.1	10.7	10.8	10.0	10.0	10.2	9.4
Air Transport Ramp Attendants (H737)	7.4	8.5	7.8	7.7	8.6	7.9	6.1	6.5	6.0
All Other Air Transport Occupations	14.0	10.7	10.0	14.6	11.3	10.5	12.1	9.2	8.3
Part-time									
Management Occupations (A)	2.1	0.8	2.0	2.4	0.8	2.3	3.6	2.0	1.8
Business, Finance and Administrative Occupations (B)	12.5	11.7	10.9	11.9	12.0	11.0	8.8	8.0	9.5
Air Pilots, Flight Engineers and Flying Instructors (C171)	7.6	7.3	6.5	7.6	7.5	6.7	20.9	15.7	15.3
Other Natural and Applied Science and Related Occupations (C, ex. C171)	1.8	2.7	2.7	1.8	3.2	2.6	0.7	3.5	1.7
Pursers and Flight Attendants (G712)	19.1	19.1	24.6	16.7	17.3	21.0	23.2	21.3	29.9
Airline Sales and Service Agents (G713)	31.2	34.7	29.8	33.7	37.1	31.8	26.6	34.1	26.6
Aircraft Mechanics & Aircraft Inspectors (H415)	1.5	2.1	1.9	1.2	1.7	1.7	0.7	1.4	1.4
Air Transport Ramp Attendants (H737)	8.3	12.1	8.9	7.8	12.7	9.4	4.8	8.2	6.4
All Other Air Transport Occupations	15.8	9.6	12.6	16.9	7.6	13.4	10.7	5.8	7.5
Accommodation									
Full-time									
Accommodation Service Managers (A222)	9.4	10.0	11.8	12.5	13.4	15.1	14.8	16.3	18.0
Other Managers (A, ex. A222)	5.7	4.1	5.9	7.2	5.3	7.2	10.6	8.2	10.9
Business, Finance and Administrative Occupations (B)	8.9	6.8	6.9	9.2	7.0	7.1	10.1	8.8	8.1
Sales and Service Supervisors (G01)	3.5	3.3	4.1	3.8	3.6	4.4	4.1	4.1	4.4
Chefs and Cooks (G41)	8.2	9.0	8.2	8.6	9.4	8.6	9.1	9.7	8.5
Occupations in Food and Beverage Service (G51)	15.7	14.2	11.4	14.4	13.2	10.4	13.2	11.7	9.7
Hotel Front Desk Clerks (G715)	7.1	10.0	9.9	6.8	9.5	9.5	6.1	9.1	8.5
Cleaners (G93)	20.2	21.5	22.4	18.2	19.2	20.0	15.4	16.9	17.1
Food Counter Attendants and Kitchen Helpers (G96)	4.1	3.4	3.1	3.7	3.0	2.8	3.0	2.2	2.0
All Other Occupations in Accommodation	17.1	17.8	16.1	15.6	16.4	15.0	13.7	13.0	12.8
Part-time									
Accommodation Service Managers (A222)	1.8	2.0	3.0	2.7	2.7	3.6	5.7	4.3	6.3
Other Managers (A, ex. A222)	0.7	0.5	1.1	1.1	0.7	1.4	1.0	1.1	3.3
Business, Finance and Administrative Occupations (B)	5.2	3.2	4.4	6.1	3.5	4.9	7.1	5.2	5.1
Sales and Service Supervisors (G01)	0.9	1.0	1.1	1.2	1.2	1.3	1.2	1.3	1.4
Chefs and Cooks (G41)	3.9	4.5	4.0	4.3	4.8	4.6	4.4	5.3	4.4
Occupations in Food and Beverage Service (G51)	26.7	24.9	19.0	26.0	26.1	18.9	27.3	26.5	20.2
Hotel Front Desk Clerks (G715)	6.5	8.6	10.4	7.5	10.1	12.1	6.7	10.4	12.0
Cleaners (G93)	28.5	30.2	32.1	26.9	28.3	30.1	23.9	26.8	27.4
Food Counter Attendants and Kitchen Helpers (G96)	9.2	8.1	7.4	7.7	7.1	6.3	6.4	5.4	5.0
All Other Occupations in Accommodation	16.7	16.9	17.7	16.5	15.4	16.8	16.4	13.8	14.9

Step 3: Building the occupational time series

The next step in putting together the occupational series consisted of interpolating between the benchmarks developed in Step 2.

The LFS provided the primary indicators on which to interpolate/extrapolate the jobs and hours for Accommodation Services. Because the LFS did not gather earnings data until after 1997, an indicator for wages and salaries for occupations in Accommodation Services was developed.²⁰ The hours worked in each occupation are simply multiplied by the industry average wage and salary (from the SNA). Thus, the indicator for each occupation catches the movement of hours worked in each, but only movement in the overall industry's wages and salaries.

In the case of Air Transportation, the data from the Canadian Civil Aviation Annual Report on employment and wages and salaries by occupation is used to interpolate and extrapolate the benchmarks. This source lacks information on the hours worked however. Indicator series for total hours worked in each occupation are created by multiplying the number employed from the Annual Report by the average hours worked in each occupation from the LFS. The indicator series for each occupation (shown on the right in Table B3) are matched with the selected occupations for this study (shown on the left). It might be noted that the source does not provide details on full-time and part-time jobs, so the same (overall) indicator is used for both.

Table B3: Mapping of Occupations Listed in Air Transportation Surveys

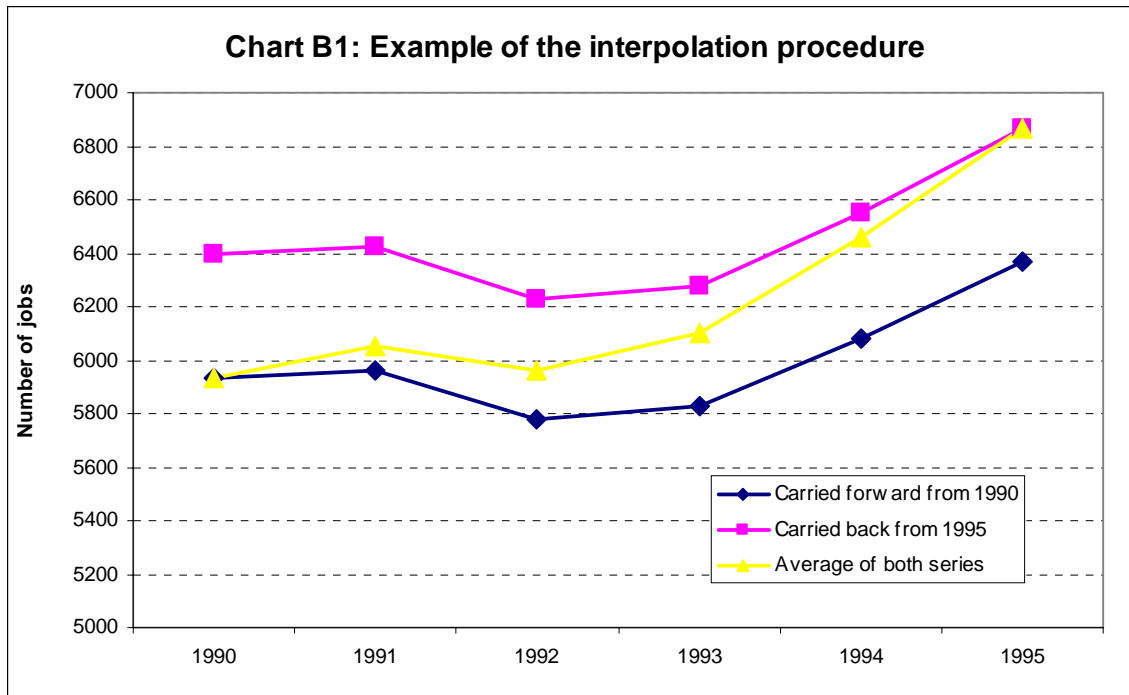
Occupations selected for Air Transport	Occupations in Industry Survey
Management occupations (A)	General management & administration
Business, Finance and Administrative occupations (B)	General management & administration
Air Pilots, Flight Engineers and Flying Instructors (C171)	Pilots and co-pilots
Other Natural and Applied Science and Related occupations	Other personnel
Pursers and Flight Attendants (G712)	Other flight personnel
Airline Sales and Service Agents (G713)	Other personnel
Aircraft Mechanics and Aircraft Inspectors (H415)	Maintenance labour
Air Transport Ramp Attendants (H737)	Aircraft and traffic servicing
All other occupations	Other personnel

As can be seen, the detail available from the industry survey is even more aggregated than the occupational groupings defined for this study, requiring the use of the same indicators for some occupations. For Accommodation Services, the LFS indicators match the selected occupations on a one-to-one basis. In this case, separate indicators are available for both full- and part-time jobs.

Last, the interpolation between benchmarks is done as follows. For 1990 to 1995, for instance, every series is first carried forward from 1990 on its indicator variable and then backward from 1995. This leads to two separate series of estimates. A weighted average of the two is taken. Mathematically, the weight on each estimate carried forward from 1990 is $(5 - x)/5$ and the weight on each estimate carried back from 1995 is $x/5$, where x is the number of years ahead of 1990. The same procedure is followed to interpolate between 1995 and 2000. In all cases, the results of this procedure are constrained so that the sum across the occupational details for any variable (jobs, hours worked, wages and salaries) is equal to the industry total.

Chart B1 shows how this procedure works in practice for a specific series. The 1990 benchmark (5936 jobs) for full-time pilots in Air Transportation is carried forward, the 1995 benchmark (6864 jobs) is carried backwards, using the same indicator, the Canadian Civil Aviation Report figures for number of Pilot and co-pilot jobs. The two series are averaged resulting in one series that satisfies both benchmarks. This series itself is further adjusted to ensure that the SNA totals are met before proceeding to Step 4.

²⁰ It would be worthwhile to examine the use of the LFS earnings data in the future.



Steps 4 and 5: Smoothing and manual adjustments

As reported in an earlier (31 August 2004) draft of this report, the results from Step 3 exhibited highly volatile and often implausible movements in many of the time series at the occupational level of detail, especially for Accommodation and for part-time jobs. This seemed to be clearly due to small samples and a great deal of sampling variability in the underlying indicators from the LFS in particular. It was determined at that point that smoothing techniques (as “light” as possible) and limited manual interventions would be required in order to bring stability, consistency and plausibility to the detailed time series.

With this draft (28 January 2005) of the report, smoothing of the data has been carried out. It has been implemented in a way that preserves the overall industry totals (from the SNA) and the occupational distributions (from the three censuses), as these benchmarks are constraints that must be met.

A simple moving average is applied to the indicators (discussed in Step 3) used to build the time series on jobs, hours worked and wages and salaries, full- and part-time, by occupation and for each industry. Various degrees of smoothing were investigated including 2-year, 3-year and 4-year moving averages.²¹ On examination, the 3-year moving average was judged to provide the best results overall in terms of reasonableness and consistency, reduced volatility, and minimizing the need for manual adjustments (to make the numbers make sense).²²

Table B4 provides summary results with respect to the need for further manual adjustments for various smoothing scenarios, including no smoothing at all. The fifth and sixth columns of the table show results for the three year moving average. In this case, manual adjustments are relatively limited. For the data series on the number of full-time employee jobs in Air Transportation, for instance, only seven data points are adjusted out of 135 (15 years X 9 occupational groups), or 5.2%. Looking down the two columns, it is evident that there is more intervention on series for Accommodation Services and for part-time jobs in both industries.

²¹ A five year moving average was started but not completed, as it was considered to be too “heavy”.

²² Keeping manual adjustments to a minimum is a key consideration for an ongoing HRM operation. It is important to know that a system can be put in place that will generate plausible numbers that will not require too much manual intervention. Such adjustments, while based on professional judgement, are nonetheless subjective, time-consuming and costly as well.

The number of manual adjustments (after smoothing) is one measure of how suitable a series is (the fewer, the better), but it is important as well to gauge their magnitude (again, smaller is better). The assessment made here is based on the sum of the absolute values of the adjustments. Absolute values are used because just summing the positive and negative adjustments gives a result close to zero, which is not very illuminating.

To give an example, if the number of full-time Cooks and Chefs is adjusted by +1000 and the number of full-time Accommodation Service Managers is adjusted by -1000, and no other adjustments are made, the sum of the absolute values of the adjustments to full-time employee jobs in Accommodation would be 2000. This number can be compared against the total of full-time employee jobs in the industry, say 100,000, to assess the degree of intervention or total adjustment to data values. In this example, the adjustments amount to 2% (2,000 / 100,000) of the total data values.

Table B4: Summary results on manual intervention under various degrees of smoothing

	Unsmoothed		Smoothed					
	Full-time	Part-time	2-year moving average		3 year moving average		4 year moving average	
	Full-time	Part-time	Full-time	Part-time	Full-time	Part-time	Full-time	Part-time
Air Transportation								
<i>Number Employed</i>								
# of Adjustments	110	109	49	83	7	3	33	68
% of data points adjusted	81.5%	80.7%	36.3%	61.5%	5.2%	2.2%	24.4%	50.4%
% of total data values adjusted	2.7%	2.7%	1.4%	1.5%	0.1%	0.0%	0.8%	1.0%
<i>Hours Worked</i>								
# of Adjustments	113	111	80	61	18	22	77	26
% of data points adjusted	83.7%	82.2%	59.3%	45.2%	13.3%	16.3%	57.0%	19.3%
% of total data values adjusted	3.8%	7.0%	2.1%	4.0%	0.2%	0.8%	1.5%	0.9%
<i>Wages and Salaries</i>								
# of Adjustments	108	112	54	11	4	16	37	10
% of data points adjusted	80.0%	83.0%	40.0%	8.1%	3.0%	11.9%	27.4%	7.4%
% of total data values adjusted	3.1%	3.1%	1.5%	0.6%	0.1%	0.9%	0.8%	0.5%
Accommodation Services								
<i>Number Employed</i>								
# of Adjustments	123	128	45	92	17	37	18	65
% of data points adjusted	82.0%	85.3%	30.0%	61.3%	11.3%	24.7%	12.0%	43.3%
% of total data values adjusted	6.1%	10.3%	2.6%	4.6%	0.8%	1.0%	0.8%	1.7%
<i>Hours Worked</i>								
# of Adjustments	123	128	36	90	17	35	17	65
% of data points adjusted	82.0%	85.3%	24.0%	60.0%	11.3%	23.3%	11.3%	43.3%
% of total data values adjusted	6.3%	11.5%	2.2%	4.9%	0.8%	1.1%	0.8%	2.4%
<i>Wages and Salaries</i>								
# of Adjustments	123	129	31	82	17	36	15	60
% of data points adjusted	82.0%	86.0%	20.7%	54.7%	11.3%	24.0%	10.0%	40.0%
% of total data values adjusted	6.5%	12.5%	2.2%	5.0%	0.8%	1.2%	0.7%	2.8%

Looking down columns 5 and 6, it can be seen that the percentage of total data values adjusted after smoothing is quite small, 1.2% at the most in the case of wages and salaries for part-time jobs in Accommodation. It is also evident that there is a greater degree of adjustment for the Accommodation and part-time jobs series.

Looking across the rows, it seems that lighter and heavier smoothing results in a greater need for manual intervention and a greater degree of adjustment to the data values, especially in the case of no smoothing at all. The required adjustments in these scenarios are determined as those needed to match the results from the three-year smoothing exercise, after manual intervention. In the no smoothing case, as was concluded at an earlier stage of this project, adjustments would likely be required all over the map. In the worst case, wages and salaries in Accommodation jobs, as many as 86% of the data points could be subjected to adjustment, altering the total data values by as much as 12.5%.

It is interesting to note that in a few instances lighter smoothing may have been better (e.g., wages and salaries for part-time jobs in Air Transportation) and heavier smoothing may have been better (e.g., wages and salaries for full-time jobs in Accommodation) than the three-period moving average, that is judged best overall. This leads to the conclusion that in an ongoing HRM operation, the degree of smoothing should be customized to each data series. This is not done here.

Step 6: Application of tourism ratios

The last step entails the estimation of the tourism employment in each industry, and the hours worked and employment income attributable to tourism. A number of conceptual and practical issues arise here.

First, at a conceptual level, it seems somewhat odd to apply a tourism ratio across the board, especially with respect to occupational data. In the case of Air Transportation, for instance, the tourism ratio for this industry in 1998 was 77%, meaning (according to TSA convention and practice) that 77% of the industry's GDP and employment can be attributed to tourism demand (most of the rest is attributable to freight operations). Can 77% of the jobs in each occupation be reasonably or plausibly attributed to tourism? Probably not.

Pursers and flight attendants are not required to move cargo. Almost 100% of their employment would seem to be, and could be, attributed to tourism demand. But then, less than 77% of the employment in other occupations would have to be attributed to tourism, otherwise the industry ratio could not be satisfied. This raises other questions. For instance, if the tourism ratio for an occupation is not the industry ratio, what is it? How is it determined? In this study, the tourism ratios are simply applied uniformly across occupations. However, this issue would merit further attention.

Second, there is a question as to whether the HRM tourism series should be benchmarked on the TSA or the NTI. In this study the NTI employment series (NTI Table 13) are taken as the benchmarks. In an operational context, this is the most likely scenario because the NTI series are available annually whereas the TSA is less frequent. Moreover, the NTI are already benchmarked on the TSA.

Last, a practical issue arose as to which tourism ratios to use, those in the TSA or those implied by the NTI estimates for jobs generated by tourism relative to the HRM estimates for total jobs, by industry. This issue arose because at present the numbers are not all of the same vintage. In particular, the SNA jobs numbers have been revised since the 1998 TSA was done, and these revised numbers have been incorporated in the NTI. The upshot is that application of the TSA ratios to the HRM industry totals lead to different results than application of implied ratios from the NTI tourism employment series and the total industry employment series of the HRM. It was decided to use the implied tourism ratios because this approach would be the most likely one in an operational context. In addition it yields HRM tourism employment series that match the NTI.

Appendix C: Main differences between this study and the previous one

There are several key differences between this feasibility study and the last one. The following summarizes them, and then describes in more detail the differences between the industry and occupational classifications used.

First, the time series coverage has been extended. The last study covered 1990 to 1997, while this one covers the period 1988 through to 2002.

In addition, jobs from self-employment in an unincorporated business are included, whereas they were not in the last study. While occupational details have not been developed, the number of these jobs (full-time and part-time), hours worked, and income are provided by industry.

Some of the industry details in the last study have not been developed here, namely the totals for the sub-industries of the two pilot industries. And while more occupational detail is provided here for Air Transportation, considerably less is provided for Accommodation.

The North American Industry Classification System (NAICS) has become the standard for classifying establishments by industry across the statistical system, replacing the Standard Industrial Classification (SIC), 1980 version. NAICS is used in this study, while the SIC was used last time.

A new classification of occupations is now in use. The last pilot study relied on the 1980 Standard Occupational Classification (SOC), whereas the 1991 SOC is used here. The differences between the two classifications are substantial.

This study uses the Censuses of Population for 1991, 1996 and 2001 to determine the occupational distribution of jobs, hours and earnings for each pilot industry, whereas the last one used the Labour Force Survey (LFS).

Differences in the industry classification

One of the main differences between this study and the last one is that a new industrial classification (NAICS 1997) is now used. The last feasibility study used the SIC-E 1980. NAICS is substantially different from the 1980 SIC. Only 220 classes out of 921 at the lowest level remain the same in the two classifications.

Air Transportation

The most important difference between NAICS and SIC relates to the specialty flying services industry (NAICS 481215 and SIC G4513). This is now at a lower level in the classification hierarchy, as part of the industry group Non-Scheduled Air Transportation, whereas under the SIC, it was at the same level as both Scheduled and Non-Scheduled Chartered Air Transportation. And while it is similar in name, it has very different and more narrowly defined coverage under NAICS. In particular, air transportation support services are no longer included. Also, aerial crop spraying and forest firefighting using specialized aircraft, aerial sightseeing and surveying, flight training, air ambulance services and recreational flying clubs are no longer included if an establishment is primarily engaged in the delivery of only one of these services. If on the other hand, an establishment produces two or more, and none predominate, it is included.

While the specialty flying services industry was included in Air Transportation (451 in SIC), it was not included in the last feasibility study as it was not defined as a tourism industry. It is however included in this study, as it is now a sub-industry of Non-Scheduled Air Transportation, which is defined as a tourism industry. To the extent that skills, training and experience in this industry are portable to the rest of Air Transportation, and to the extent that there is job mobility between the two, its inclusion would seem desirable for the HRM. There are a few smaller differences between NAICS and SIC. In particular, air courier services are no longer included, while transportation by space vehicle is now included.

The following tables (Tables C1-C2) show “concordances” (or mappings) from Air Transportation as defined in NAICS to SIC industries, and from Air Transportation as defined in SIC to NAICS industries. Both help in understanding the similarities and differences between the two classifications. To help interpret them, the following “walk-through” may be useful.

Table C1 shows the NAICS industries included in Air Transportation in this study, and their equivalence in terms of SIC. In the third row of Table C1, Scheduled Air Transportation (NAICS 481110) is listed as included in this study. Looking across the row, this industry is identical to the Scheduled Air Transport Industry (SIC G4511), with the exception that scheduled air courier service is included in the SIC but not in the NAICS.

Table C2 shows the SIC industries included in Air Transportation in the last study, and their equivalence in terms of NAICS. In the second row of Table C2, the Scheduled Air Transport Industry is listed as included in the last feasibility study. Looking across the row, this industry is identical to Scheduled Air Transportation (NAICS 481110) plus part of Couriers (NAICS 492110), namely scheduled air courier service.

Accommodation

The next two tables (Tables C3-C4) highlight the differences in the definition of the accommodation industry between NAICS and SIC and consequently, between this study and the last study.

While there are many differences in terms of detail and organization, the only substantive change in terms of coverage is with respect to Day Camps. They were included in the SIC under Other Recreation and Vacation Camps, part of Accommodation. But in NAICS, they are now included under All Other Amusement and Recreation Industries, another industry altogether. Thus, Day Camps were included in the last study, but are not included in this one.

Rooming and Boarding Houses are not included in either study, although they are shown in the tables because they are part of the industry in the formal industry classifications.

Table C1: NAICS to SIC Concordance: Air Transportation

NAICS 1997		SIC-E 1980		Explanatory notes
481	Air Transportation			
4811	Scheduled Air Transportation			
481110	Scheduled Air Transportation	G4511 *	Scheduled Air Transport Industry	All except scheduled air courier service
4812	Non-Scheduled Air Transportation			
481214	Non-Scheduled Chartered Air Transportation	G4512 *	Non-Scheduled Air Transport, Chartered,	All except non-scheduled air courier service
		G4599 *	Other Service Industries Incidental to Transportation n.e.c.	Transportation by space vehicle
481215	Non-Scheduled Specialty Flying Services	G4513 *	Non-Scheduled Air Transport, Specialty,	Combination of flying services, with none predominating

* Denotes “part of” the SIC class. The part is described in the explanatory notes. Excerpt from NAICS 1997 Manual.

Table C2: SIC to NAICS Concordance: Air Transportation

SIC-E 1980		NAICS 1997		Explanatory notes
G451	Air Transportation			
G4511	Scheduled Air Transport Industry	481110	Scheduled Air Transportation	
		492110 *	Couriers	Scheduled air courier service
G4512	Non-Scheduled Air Transport, Chartered,	481214 *	Non-Scheduled Chartered Air Transportation	All except transportation by space vehicle
		492110 *	Couriers	Non-scheduled air courier service
G4513	Non-Scheduled Air Transport, Specialty,	115110 *	Support Activities for Crop Production	Aerial crop spraying, using specialized equipment
		115310 *	Support Activities for Forestry	Forest firefighting, using specialized aircraft
		481215	Non-Scheduled Specialty Flying Services	
		487990	Scenic and Sightseeing Transportation, Other	
		541360 *	Geophysical Surveying and Mapping Services	Air-borne geophysical surveying service
		541370 *	Surveying and Mapping (except Geophysical) Services	Aerial non-geophysical surveying services (e.g. photography for topographic mapping)
		611510 *	Technical and Trade Schools	Flight training (including commercial pilots)
		621912	Air Ambulance Services	
		713990 *	All Other Amusement and Recreation Industries	Recreational flying clubs, membership
		488190 *	Other Support Activities for Air Transportation	Services to air transportation, n.e.c., (e.g., aircraft ferrying service)
611510 *	Technical and Trade Schools	Ground training for air crews		

* Denotes "part of" the SIC class. The part is described in the explanatory notes.
Excerpt from NAICS 1997 Manual.

Table C3: NAICS to SIC Concordance: Accommodation Services

NAICS 1997		SIC-E 1980		Explanatory notes
721	Accommodation Services			
7211	Traveller Accommodation			
721111	Hotels	Q9111 *	Hotels and Motor Hotels	Hotels
721112	Motor Hotels	Q9111 *	Hotels and Motor Hotels	Motor hotels
721113	Resorts	Q9111 *	Hotels and Motor Hotels	Resorts (e.g. seasonal hotels)
721114	Motels	Q9112	Motels	
721120	Casino Hotels	Q9111 *	Hotels and Motor Hotels	Casino hotels
721191	Bed and Breakfast	Q9114 *	Guest Houses and Tourist Homes	Bed and breakfast
721192	Housekeeping Cottages and Cabins	Q9113	Tourist Courts and Cabins	
721198	All Other Traveller Accommodation	Q9114 *	Guest Houses and Tourist Homes	Tourist homes (except bed and breakfast)
7212	RV (Recreational Vehicle) Parks and Recreational Camps			
721211	RV (Recreational Vehicle) Parks and Campgrounds	Q9131	Camping Grounds and Travel Trailer Parks	
721212	Hunting and Fishing Camps	Q9141	Outfitters (Hunting and Fishing Camps)	
721213	Recreational (except Hunting and Fishing) and Vacation Camps	Q9149 *	Other Recreation and Vacation Camps	Recreation and vacation camps (except day camps)
7213	Rooming and Boarding Houses**			
721310	Rooming and Boarding Houses	Q9121	Lodging Houses and Residential Clubs	
<p>* Denotes "part of" the SIC class. The part is described in the explanatory notes. ** Not included in either feasibility study, but part of the NAICS industry sub-sector. Excerpt from NAICS 1997 Manual.</p>				

Table C4: SIC to NAICS Concordance: Accommodation Service Industries

SIC-E 1980		NAICS 1997		Explanatory notes
Q91	Accommodation Service Industries			
Q9111	Hotels and Motor Hotels	721111	Hotels	
		721112	Motor Hotels	
		721113	Resorts	
		721120	Casino Hotels	
Q9112	Motels	721114	Motels	
Q9113	Tourist Courts and Cabins	721192	Housekeeping Cottages and Cabins	
Q9114	Guest Houses and Tourist Homes	721191	Bed and Breakfast	
		721198	All Other Traveller Accommodation	
Q9121	Lodging Houses and Residential Clubs**	721310	Rooming and Boarding Houses	
Q9131	Camping Grounds and Travel Trailer Parks	721211	RV (Recreational Vehicle) Parks and Campgrounds	
Q9141	Outfitters (Hunting and Fishing Camps)	721212	Hunting and Fishing Camps	
Q9149	Other Recreation and Vacation Camps	713990 *	All Other Amusement and Recreation Industries	Day camps
		721213	Recreational (except Hunting and Fishing) and Vacation Camps	
<p>* Denotes "part of" the SIC class. The part is described in the explanatory notes. ** Not included in either study, but part of the SIC industry division. Excerpt from NAICS 1997 Manual.</p>				

Differences in the classification of occupations

Another key difference between this feasibility study and the last one is the classification of occupations used. The Standard Occupational Classification 1991 (SOC 1991) is used here, while the 1980 SOC was used last time. As mentioned earlier, the 1991 version of the SOC entailed a substantial revamping. There are virtually no one-to-one relationships between the two classifications, even at the 4-digit level despite the fact that many of the occupations at this level have the same or similar titles.

Tables C5-C6 give a mapping between occupations used in the two studies for purposes of comparison. They do not however give official concordances. While titles may be similar, the content of the occupations can be quite different. For instance, in the case of management occupations, the SOC 1991 does not include many supervisor, officer, inspector, researcher, etc. jobs which were part of the management category in SOC 1980.

Table C5: Air Transportation - Comparison of occupations selected

Present Study		Previous Study		
SOC-1991	Title	SOC-1980	Title	Explanatory notes
A	Management Occupations	1100	Management Occupations	
B	Business, Finance and Administrative Occupations			Included in all other occupations in last study
C171	Air Pilots, Flight Engineers and Flying Instructors	9111	Air Pilots, Navigators and Flight Engineers	
C, excl. C171	Natural and Applied Science and Related Occupations			Included in all other occupations in last study
G712	Pursers and Flight Attendants	6145	Travel and Related Attendants, except Food and beverage	
G713	Airline Sales and Service Agents	4193	Travel Clerks, Ticket Station and Freight Agents	
H415	Aircraft Mechanics and Aircraft Inspectors	9113	Air Transport Operating Support Occupations	
H737	Air Transport Ramp Attendants			
	All Other Occupations in Air Transportation		All Other Air Transportation Occupations	
* Table shows occupations selected in the two studies, and aligns them for ease of comparison only.				

Table C6: Accommodation Services - Comparison of occupations selected

Present Study		Previous Study		
SOC-1991	Title	SOC-1980	Title	Explanatory notes
A222	Accommodation Service Managers	1100	Management Occupations	
A, ex. A222	Other Managers			
		4131	Bookkeepers and Accounting Clerks	Included in Business, Finance and Admin. Occs. in present study
B	Business, Finance and Administrative Occupations			Included in all other occs. in last study, except Bookkeepers and Accounting Clerks
G01	Sales and Service Supervisors	6120	Supervisors: Food and Beverage Preparation and related Service Occupations	
		6130	Supervisors: Occupations in Lodging and Other Accommodation	
G41	Chefs and Cooks	6121	Chefs and Cooks	
G51	Occupations in Food and Beverage Service	6123	Bartenders	
		6125	Food and Beverage Serving Occupations	
G715	Hotel Front Desk Clerk	4194	Hotel Clerks	
G93	Cleaners	6133	Lodging Cleaners, Except Private Households	
		6191	Janitors, Charworkers and Cleaners	
G96	Food Counter Attendants and Kitchen Helpers	6129	Food and Beverage Preparation and related Service Occupations, n.e.c.	
	All Other Occupations in Accommodation	6135	Sleeping Car and Baggage Porters	Not identified in present study
		6198	Occupations in Labouring and Other Elemental Work: Other Services	Not identified in present study
			All Other Accommodation Occupations	

* Table shows occupations selected in the two studies, and aligns them for ease of comparison only.

Appendix D: Glossary of terms

Basic prices: Valuation at basic prices is expressed at the costs of production factors (labour and capital) and indirect taxes and subsidies on production factors. See Market prices.

Employee jobs: All jobs in which the person employed draws compensation for services rendered and for whom the employer must complete a Revenue Canada T4 form. Jobs in which workers are paid by tips or commissions are included. Self-employed proprietors of unincorporated enterprises and unpaid family workers are not included.

Establishment: For statistical purposes, is the smallest entity capable of reporting statistics of economic production, typically a factory, a mine, store or similar unit.

Full-time job: One in which a person usually works 30 hours or more per week.

Full-time equivalent employment: Is the number of full-time equivalent jobs.

Full-time equivalent (FTE) jobs: Is defined as total hours worked divided by average annual hours worked in full-time jobs. This can also be described as full-time-equivalent work-years. It is a less precise alternative to expressing labour input in terms of total hours worked.

Gross Domestic Product (GDP): The unduplicated value of production originating within the boundaries of Canada, regardless of the ownership (resident or non-resident) of the factors of production. GDP can be valued at either basic prices or market prices.

Hours worked: Actual hours worked during normal periods of work, including overtime but excluding paid leave (e.g. holidays, sick leave).

Industry: A generally homogeneous group of economic producing units, primarily engaged in a specific set of activities. An activity is a particular method of combining goods and service inputs, labour and capital to produce one or more goods and/or services (products). The activities that define an industry are homogeneous with respect to the production processes used.

Job: A job is defined as an explicit or implicit contract between a person and an institutional unit to perform work in return for compensation for a defined period or until further notice. The institutional unit may be the proprietor of an unincorporated enterprise, in this case the person is described as being self-employed and earns a mixed income. The number of jobs exceeds the number of persons employed by the number of second, third, etc. jobs.

Jobs generated by tourism: Jobs that can be directly attributed to tourism demand.

Labour force: The civilian non-institutional population 15 years of age and over who are either employed or unemployed.

Labour income: All earnings from employment for work performed, whether cash or in kind, and before deductions for income taxes, unemployment insurance, pensions and other social insurance schemes, plus Supplementary Labour Income.

Main job: The job at which the most hours are worked.

Mixed income: Is the value added minus the compensation of employees and taxes on production payable plus subsidies receivable (or the net income) of unincorporated enterprises owned by members of households, either individually or in partnership with others, in which the owners, or other members of their households, may work without receiving any wage or salary. Working owners of such enterprises must be self-employed: those with paid employees are employers, while those without paid employees are own-account workers. Mixed income contains an unknown element of remuneration for work done by the owner of the enterprise, or other members of the same household, as well as the surplus accruing from production.

Market prices: Valuation at market prices is expressed in terms of the prices actually paid by the purchaser. It includes all indirect taxes, such as sales and excise taxes, customs duties and property taxes and also reflects the impact of subsidy payments. See also basic prices.

Multiple job holder: A person who is employed in more than one job during the reference period.

Occupation: A collection of jobs, sufficiently similar in work performed (tasks, duties and responsibilities) to be grouped under common title for classification purposes.

Part-time job: One in which a person usually works less than 30 hours per week.

Satellite Account: An accounting system that follows the basic principles of the System of National Accounts but also expands the analytical capacity for selected areas of social concern, without overburdening or disrupting the central system. Satellite accounts are linked with the central framework of the national accounts and through them to the main body of integrated economic statistics.

Self-employment jobs: Includes working-owners of unincorporated enterprises, and members of their households who work without a wage or salary (i.e., unpaid family workers).

Supplementary labour income (SLI): Mandatory and non-mandatory employer contributions on behalf of employees for pension funds, social insurance and similar benefits.

System of National Accounts (SNA): A coherent, consistent and integrated set of macroeconomic accounts, balance sheets and tables based on a set of internationally agreed concepts, definitions, classifications and accounting rules. It provides a comprehensive accounting framework within which economic data can be compiled and presented in a format that is designed for purposes of economic analysis, decision-taking and policy-making.

Total hours worked: Is the aggregate number of hours actually worked during the year in employee and self-employment jobs.

Tourism: is “the activities of persons travelling to and staying in places outside their usual environment for not more than one consecutive year for leisure, business and other purposes not related to the exercise of an activity remunerated from within the place visited.”

Tourism Commodity: is one for which a significant part of its total demand in Canada comes from visitors.

Tourism Demand: is defined as the spending of Canadian and non-resident visitors on domestically produced commodities. It is the sum of tourism domestic demand and tourism exports.

Tourism Domestic Demand: is the spending in Canada by Canadian visitors on domestically produced commodities.

Tourism Employment: is the number of jobs in tourism and non-tourism industries that can be directly attributed to tourism demand. Someone who works 10 hours a week counts for as much, by this measure, as someone who works 50 hours a week. This is also called “employment generated by tourism”.

Tourism Exports: is spending by foreign visitors on Canadian-produced goods and services. It includes spending that may take place outside of Canada, for instance, the purchase of an airline ticket from a Canadian international carrier, to travel to Canada.

Tourism Industry: is an industry that would cease to exist or would continue to exist only at significantly reduced levels of activity in the absence of tourism.

Tourism Satellite Account (TSA): A satellite account of the SNA that focuses on visitor spending on goods and services, the supply of these goods and services, and the resulting value added and jobs generated.

Visitors: persons who undertake tourism as defined above. They are referred to as either tourists (those who stay overnight or longer in the place visited), or same-day visitors.

Wages and Salaries: Includes earnings from employment before taxes and other deductions. It includes tips, commissions and bonuses. Income from self-employment is not included.

Work: Any activity which contributes to the production of goods or services included within the System of National Accounts.

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