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Tourism satellite accounts

Country experience in the compilation of Tourism Satellite Accounts



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List of abbreviations

ABI	Annual Business Inquiry
ABS	Australian Bureau of Statistics
ANZSIC	Australian and New Zealand Standard Industrial Classification
AVSS	Annual Visitors Sample Survey
BoP	Balance of Payments
BoPT	Balance of Payments for Tourism
CAI	Computer Assisted Interview
CAPI	Computer Assisted Personal Interview
CATI	Computer Assisted Telephone Interview
CE	Census of Establishments
CPI	Consumer Price Index
CTS	Canadian Travel Survey
DEAT	Department of Environmental Affairs and Tourism
DEFRA	Department for Environment Food and Rural Affairs
DOT	Department of Tourism
	Department of Trade and Industry
DTS	Domestic Tourism Survey
FAS	Economic Activity Survey
FFS	Expenditure and Food Survey
Eurostat	Statistical Office of the European Communities
FTF	Full-time Equivalents
GAA	General Appropriate Act
GR	Great Britain
GBDVS	Great Britain Day Visits Survey
CDDVC	Gross Domestic Product
CHS	General Household Survey
	Household Consumption Expenditure
HES	Household Economic Survey
HIES	Household Labour Force Survey
	Income and Expenditure Survey
	Income and Expenditure Survey
IFO	International Travel Survey of Canadian Basidanta
	International Visitors Survey
	Labour Assounts for Tourism
	Labour Force Survey
LSS	Large Sample Survey
NSBC	National Statistical Board Council
NSO	
NZ	
OECD	Organisation for Economic Cooperation and Development
ONS DRI ¹	Office for National Statistics
PPI	Producers Price Index
QES	Quarterly Employment Survey
QFS	Quarterly Financial Statistics
ROW	Rest of the World
SARB	South African Reserve Bank
SARS	South African Revenue Services
SAT	South African Tourism
SEPH	Survey of Employment, Payroll and Hours
SG	Statistician-General

¹ Please see the glossary.

SIC	Standard Industrial Classification
SNA	System of National Accounts
SSD	Social Survey Division
SSRTA	Sample Survey of Regional Travellers in Accommodation
StatsCan	Statistics Canada
Stats SA	Statistics South Africa
STS	System of Tourism Statistics
SU-tables	Supply and Use Tables
TSA	Tourism Satellite Accounts
TSARMF	Tourism Satellite Accounts Recommended Methodological
	Framework
UK	United Kingdom
UN	United Nations
UKTS	United Kingdom Tourism Survey
UNSTAT	United Nations Statistics Division
UNWTO	World Trade Organisation

A tourism satellite account (TSA) is a statistical instrument used to measure the size of the tourism industry's contribution to the economy of a country according to international standards of concepts, classifications and definitions which will allow for valid comparisons with other industries and eventually from country to country and between groups of countries.

A satellite account is a term developed by the United Nations (UN), the World Bank, the International Monetary Fund (IMF), and the Organisation for Economic Cooperation and Development (OECD) to measure the size of economic sectors not defined as industries in national accounts. Tourism plays a significant role in the South African economy. However, unlike output-defined industries such as agriculture or manufacturing, the primarily demand-defined tourism industry is not measured as a sector in its own right in national accounts. Tourism, globally, is not a clearly defined industry in the System of National Accounts (SNA), or in its recommended classifications, but it is an amalgamation of industries such as transportation, accommodation, food and beverage services, recreation and entertainment, and travel agencies.

Tourism is not an industry in the traditional sense that is identified in the SNA. This is because industries are classified according to the goods and services they produce, while tourism is a consumption-based concept that depends on the status of the consumer. A major reason for the difficulties in measuring the size of tourism is the fact that in the 1993 SNA, industries are created on the basis of their activity or output, rather than on data on their customers, whereas tourism is defined by the characteristics of the consumers - the tourists - at the moment of consumption. consumption 'tourism-characteristic' Furthermore. tourism includes (i.e. accommodation, travel services, cable cars, etc.) and 'non-tourism-characteristic' (retail trade) goods and services, which deliver their services largely to non-tourists. The key factor, from a measurement standpoint, is to relate purchases by tourists to the total supply of these goods and services within a country.

Given the difficulties of defining and measuring the size of tourism and the need to have accurate information about its size and structure, the UN recommends the development of a TSA. Satellite accounts involve the rearrangement of existing information in the national accounts so that an area of particular economic or social importance, such as tourism or natural resources, can be analysed more closely. Typically, satellite accounts or systems allow for:

- The provision of additional information on particular social concerns of a functional or cross-sector nature;
- The use of complimentary or alternative concepts, including the use of complementary and alternative classifications and accounting frameworks, when needed to introduce additional dimensions to the conceptual framework of national accounts;
- Extended coverage of costs and benefits of human activities;
- Further analysis of data by means of relevant indicators and aggregates; and
- Linkage of physical data sources and analysis to the monetary accounting system.

² Source: Stats SA, Discussion document (D9106): 'Status of the tourism satellite account in South Africa'

It is important to recognise that a variety of basic statistics and/or more elaborate data than those provided by the national accounts are involved in the development of a TSA. The supply and use framework is a pivotal integration tool for all of this information³. The United Nations World Tourism Organisation (UNWTO) document 'General guidelines for developing the Tourism Satellite Account: Measuring tourism supply' also stresses the benefits and importance of using Input-Output tables (based on the supply and use tables (SU-tables)) in the TSA context.

In relation to the concept of 'visitor consumption' and the place where this occurs, as well as the need to distinguish between resident and non-resident visitors, the following concepts are defined in the tourism satellite account recommended methodological framework (TSARMF):

- Domestic tourism is the tourism of resident visitors within the economic territory of the country of reference;
- Domestic tourism consumption comprises the consumption of resident visitors within the economic territory of the country of reference;
- Inbound tourism is the tourism of non-resident visitors within the economic territory of the country of reference;
- Inbound tourism consumption comprises the consumption of non-resident visitors within the economic territory of the country of reference and/or that provided by residents;
- Outbound tourism is the tourism of resident visitors outside the economic territory of the country of reference;
- Outbound tourism consumption comprises the consumption of resident visitors outside the economic territory of the country of reference and provided by nonresidents;
- Internal tourism is the tourism of visitors both resident and non-resident, within the economic territory of the country of reference;
- Internal tourism consumption comprises the consumption of both resident and non-resident visitors within the economic territory of the country of reference and/or that provided by residents;
- National tourism is the tourism of resident visitors within and outside the economic territory of the country of reference; and
- National tourism consumption comprises the consumption of resident visitors within and outside the economic territory of the country of reference.

On the basis of these concepts, definitions and classifications which indicate the boundaries of the tourism industry, the TSARMF recommends the development of 10 main accounting tables that allow for the analysis of the economic features of tourism, encompassing demand, supply, impact on employment, etc. Each table places the focus on a different aspect of the tourism industry, but they are not completely independent as there are obvious links between them, especially when used for analysis⁴.

³ General guidelines for developing the Tourism Satellite Account (UNWTO)

⁴ Source: General guidelines for developing the Tourism Satellite Account (TSA): Measuring tourism supply

The aim of this discussion document is to investigate international country experiences (international best practices) in compiling and populating the TSA tables (i.e. data sources used, assumptions made and ratios used), as well as to make recommendations for the development and compilation of the TSA tables for South Africa. For the process of TSA development in South Africa, refer to the discussion document (D0405.3) 'Status of the tourism satellite account in South Africa', published on the Stats SA website (www.statssa.gov.za) in April 2005.

2. South African Tourism Satellite Accounts

For the compilation of the South African TSA, an inter-institutional committee for the TSA was established due to the development of the TSA being dependent on data from a number of different sources. This has been a successful achievement in South Africa, with Stats SA, South African Tourism (SAT), the Department of Environmental Affairs and Tourism (DEAT), the South African Reserve Bank (SARB), the Department of Home Affairs (DHA), and the Department of Trade and Industry (DTI) all actively participating. The inter-institutional committee works on two levels. The first (higher) level committee is the TSA Steering committee, consisting of the Heads of Departments, so that recommendations from the working group can be put into practice without undue delay. The committee is chaired by the Statistician-General (SG) of Stats SA. The second level committee is the TSA working group, which allows members who are actively involved in tourism and tourism data to exchange ideas, work on methodological issues around TSA compilation, etc.

The data currently available for the compilation of the South African TSA are as follows:

Stats SA compiles the following data sources for the compilation of a South African TSA:

Supply side information:

- Large Sample Survey (LSS) on accommodation (published every 3 years). The latest information available is for reference year 2004 published on 21 November 2005;
- Large Sample Survey on personal services (published every 3 years). The latest information available is for reference year 2004 published on 21 November 2005;
- Large Sample Survey on real estate and business services (published every 3 to 5 years). The latest information available is for reference year 2003 published on 14 July 2005;
- Large Sample Survey on transport industry (published every 3 to 5 years). The latest information available is for reference year 2002 published on 1 December 2004;
- Survey of Tourism Accommodation (published monthly). The latest information available is for September 2006 published on 29 November 2006;
- Survey of Food and Beverages Outlets (published quarterly). The latest information available is for September 2006 published on 13 December 2006;
- Quarterly Financial Statistics Survey (QFS) (published quarterly). The latest information available is for September 2006 published on 21 December 2006;
- Economic Activity Survey (EAS) (published annually). The latest information available is for reference year 2005 published on 21 September 2006;
- Quarterly Employment Survey (QES) (published quarterly). The latest information available is for July 2005 published on 31 May 2006;

3

 Labour Force Survey (LFS) (published biannually). The latest information available is for March 2006 published on 26 September 2006; and

4

• Supply and Use Tables.

Demand side information:

- General Household Survey (GHS) (published annually). The latest information available is for September 2006 published on 12 December 2006;
- Tourism and Migration (published monthly). The latest information available is for September 2006 published on 19 December 2006;
- Supply and Use Tables; and
- Income and Expenditure Survey (IES) (published every 5 years). The latest information available is for reference year 2000 published on 13 November 2002).

SAT compiles the following data sources for the compilation of South African TSA:

Demand side information:

- Departure Survey; and
- Domestic Tourism Survey.

South Africa has developed the SU-tables model for the compilation of TSA. The SUtables model mainly relates to Tables 1-6 of the TSA. The latest detailed SU-tables for South Africa (94 industries and 153 products and services) were published for the 2002 reference year. Therefore 2002 is also the reference year that was chosen for the development of the first draft set of TSA tables for South Africa (discussion document for internal circulation within the TSA working group and steering committee). The data intensiveness of the 10 tables that constitute a TSA makes it impossible and unadvisable for countries to implement them simultaneously. The 10 tables can be grouped into two different sets according to their degree of priority. Specifically, Tables 1–7 and Table 10 are regarded as being high priority as they include the minimum set of accounts needed to pursue a comparative analysis of tourism within a satellite framework. By contrast, Tables 8 and 9 have a lower priority level because of their complex nature - not only from a data perspective, but also from a conceptual approach. In addition, the methodology around the compilation of Tables 8 and 9 is still in the development phase. It is therefore recommended by the UNWTO that they are done last. The compilation of a TSA for South Africa firstly focused on the compilation of Tables 1-5, as well as Table 10. This will be followed by the compilation of Tables 6 and 7.

3. Compilation of a Tourism Satellite Account in other countries

The compilation of a TSA differs from one country to another, depending on the data availability and the definitions adopted in each country. Most countries compiled Tables 1–6 (see Annexures 2–11) of the TSA (which is the core of the TSA). This section describes the experiences of seven countries, i.e. United Kingdom (UK), New Zealand (NZ), Canada, Austria, Australia, the Philippines and Scotland as examples of the compilation of their latest TSAs, e.g. the data sources, assumptions and ratios used.

3.1. Construction of the United Kingdom's Tourism Satellite Account, 2000

The Department of Culture compiled the 2000 UK TSA (which was published in 2004) according to the recommendations of the UNWTO methodological framework and the 1993 SNA. This includes Tables 1–6 and Table 10 of the TSA. Tables 7, 8 and 9 will be compiled in future. UK tourism contributed 4,0% or £89,6 billion of the total gross domestic product (GDP) in 2000.

In 2000, the size of the UK population was approximately 59,6 million with total households of 14,3 million.

3.1.1. Main data sources

The main data sources used for the compilation of the 2000 UK TSA were as follows:

Supply side information:

- Annual Business Inquiry (ABI);
- UK Supply and Use Tables; and
- Labour Force Survey.

Demand side information:

- International Passenger Survey (IPS);
- United Kingdom Occupancy Survey;
- United Kingdom Tourism Survey (UKTS);
- Great Britain (GB) Day Visits Survey;
- UK Supply and Use Tables; and
- Expenditure and Food Survey (EFS).

The following paragraphs give a brief description of each of these data sources.

International Passenger Survey

The IPS is an annual survey that is conducted by the UK Office for National Statistics (ONS). This survey is a random sample of passengers entering and leaving the UK by air, sea or the channel tunnel. Over a quarter of a million face-to-face interviews are carried out each year with passengers entering and leaving the UK through the main airports, seaports and the channel tunnel⁵. The data collected include country of visit (for UK residents), country of residence and region of the UK visited (for overseas residents), expenditure, purpose of visit, length of stay, age group, gender, mode of transport, port, year and quarter of visit.

United Kingdom Occupancy Survey

The UK Occupancy Survey is an annual survey. This survey's data are sourced from the National Tourist Boards and Regional Tourists Boards in England. The coverage of this survey is different across the UK, with Scotland including non-serviced accommodation and the rest of the UK restricted to serviced accommodation only.

⁵ www.statistics.gov.uk/ssd/surveys/international_passenger_survey.

The UK Occupancy Survey for serviced accommodation operates on the basis of 13 individual surveys carried out by the Northern Ireland, Scottish and Wales Tourist Boards and the English Regional Tourist Boards. The purpose of this survey is to monitor room and bed space occupancy levels among serviced accommodation establishments. The types of accommodation in this survey are hotels (including motels, travel lodges and inns), guesthouses and private houses (including farmhouses) offering bed and breakfast to visitors⁶.

United Kingdom Tourism Survey

The UKTS is an annual survey. The National Tourist Board carry out a survey of trips undertaken by UK residents. The survey covers all trips away from home lasting one night or more for holidays, visits to friends and relatives, business, conferences or any other purpose except such things as hospital admissions or school visits.

The main results are the number of trips taken, expenditure, and nights spent away from home. Data are also available on leisure activities undertaken on the trip, methods of booking or arranging travel, and types of location stayed at. The survey covers the UK and data are available for England, Scotland, Wales, Northern Ireland and at regional level. The survey is carried out continuously, and results are published annually. The survey uses the stratified random sample and in 2000, 55 000 interviews were conducted⁷.

Great Britain Day Visits Survey

The GBDVS is a quarterly survey and used a random sample of GB residents (aged 16 and above). The GBDVS measures the visitors who visit GB and return to their place of origin without staying overnight (visit takes place in one day). In 2000, 6 600 people were interviewed resulting in a 43,0% response rate. Business day trips are not included in this survey. The survey only covers home-based leisure day visits. Leisure day visits are visits that lasted three hours or more and were not undertaken on a regular basis.

Annual Business Inquiry

The ABI is an annual survey and is conducted in two parts: one dealing with employment, the other with financial information. The financial inquiry covers about two thirds of the UK economy (including production; construction; distribution and service industries; agriculture, hunting, forestry and fishing). The coverage of the employment inquiry is wider⁸. The sample size of this survey is 77 000 businesses. The ABI is carried out by the United Kingdom Office for National Statistics. UK businesses are sampled according to their employment size and 4-digit level (Standard Industrial Classification (SIC)) of the industry sector). Results are used to compile the input-output tables for National Accounts, to rebase the Index of Production, benchmark the inventories and 'capital expenditure quarterly inquiries' and are supplied to Eurostat. The ABI data are used for the disaggregation of industries in the lower half of Table 5 of the TSA. The ABI data provide information on the number of employees, total output, compensation of employees, gross value added and purchases and hours worked.

⁶ www.statistics.gov.uk/STATBASE

⁷ www.statistics.gov.uk/STATBASE

⁸ www.statistics.gov.uk/abi/

UK Supply and Use Tables

The UK SU-tables estimate the demand for products by UK resident and nonresident households. UK SU-tables are compiled annually and provide analyses of the whole economy by 123 products and 123 industries and final demands such as household's final consumption expenditure.

7

Labour Force Survey

The LFS is a quarterly sample survey of households living at private addresses in GB. The sample size of this survey is 60 000 households. The purpose of LFS is to provide information on the UK labour market that can then be used to develop, manage, evaluate and report on labour market policies. The questionnaire design, sample selection and interviewing are carried out by the Social and Vital Statistics Division of the ONS on behalf of the Statistical Outputs Group of the ONS⁹.

The labour market for tourism is derived by applying tourism industry ratios to the number of persons engaged in each industry. Tourism industry ratios produce an estimate of the number of persons engaged in each industry as a result of tourism.

Expenditure and Food Survey

The EFS is commissioned by the Social Survey Division (SSD) of ONS and by the Department for Environment, Food and Rural Affairs (DEFRA). It is an annual survey of household expenditure, food consumption and income with the sample size of 12 000 households. The primary uses are to provide information about spending patterns for the Retail Price Index, and about food consumption and nutrition¹⁰.

3.1.2. Ratios used and ratios calculated from the UK Tourism Satellite Account

UK visitors are divided into four categories (by purpose of visit), namely, 'holiday visitors', 'business visitors', 'visiting friends and relatives', and 'other visitors'. This section discusses the ratios used and ratios calculated from the UK TSA tables as well as some assumptions made during the compilation of the 2000 TSA.

Inbound tourism

Inbound tourism contributed £12,6 billion of the UK total tourism consumption expenditure in 2000. Of the total inbound consumption expenditure in 2000, half of the consumption expenditure was spent on 'accommodation services' (21,0%) and 'restaurant, bar and catering services' (19,4%). Tourism-connected products (miscellaneous services, travel agencies, etc.) accounted for 5,5% of the total tourism expenditure in the UK in 2000 and 'non-tourism-related products' (groceries, motor vehicle parts and repairs, etc.) accounted for 15,2%. 'Passenger transportation services' accounted for 1,9% of the total tourism expenditure. Tourism-connected products include products such as miscellaneous services, and travel agencies. Non-tourism products include products such as groceries, alcoholic beverages from stores, motor vehicle parts and repairs, motor vehicle fuel and toiletries.

⁹www.statistics.gov.uk/STATBASE

¹⁰www.statistics.gov.uk/ssd/surveys/expenditure_food_survey.

Diplomats and armed forces were not included in the inbound tourist expenditure definitions. Table A shows the ratios calculated from UK TSA Table 1 (inbound tourism) which was published in 2004. The inbound tourists spent a major part of their expenditure on 'accommodation services' (28,0%) followed by 'restaurant, bar and catering services' (25,0%) and 'non-tourism products' (19,0%).

	Own calculation
Tourism products	ratios
Accommodation services	28,0
Restaurant, bar and catering services	25,0
Passenger transport services	4,0
Travel agency and tour operator services	0,0
Recreation, cultural and other	
entertainment services	2,0
Tourism-connected products	7,0
Non-tourism products	19,0
Retail	15,0
Distribution margins	0,0
Total	100,0

Table A: UK Table 1 of the TSA – Inbound tourism (%), 2000¹¹

Source: UK Department of Culture - 2000 TSA

Domestic tourist expenditure in the UK comprises UK residents who stay overnight on a tourism visit, and those who are day visitors. The latter represented the most important element of domestic tourism demand, comprising £31,8 billion or 35,4% of the total tourist expenditure. Spending by overnight visitors in the UK was just over £26 billion or 29,0%. Table B shows that domestic day visitors spent the major part of their expenditure on 'non-tourism-connected products' (34,7%) and 'retail and distribution including fuel products' (26,5%). The total domestic visitors spent the major part of their expenditure on 'passenger transport services' (24,0%), followed by 'non-tourism-connected products' (20,8%) and 'restaurant, bar and catering services' (20,5%).

Table B: UK Table 2 of the TSA – Domestic Tourism Consumption (own calculation ratios %), 2000

Duaduata	Overnight	Day	Total
Products	VISITORS	VISITORS	Total
Accommodation services	21,5	0,0	7,7
Restaurant, bar and catering services	27,9	23,9	20,5
Passenger transport services	14,5	2,3	24,0
Travel agency and tour operator services	0,5	0,4	2,8
Recreation services	7,2	9,6	6,9
Miscellaneous tourism services	2,5	2,5	2,0
Non-tourism-connected products	15,6	34,7	20,8
Retail and distribution including fuel	10,3	26,6	15,3
Total	100,0	100,0	100,0

Source: UK Department of Culture - 2000 TSA

¹¹ All figures in the document have been rounded off to the nearest million. There may therefore be slight discrepancies between the sums of the constituent products and industries and the totals shown.

Outbound tourism

The UK made the assumption that outbound tourism is similar to inbound tourism in terms of the length of stay. Diplomats and armed forces were also not included in the outbound tourism definition. However, outbound tourism is more problematic, due to the importance of package tourism and the lack of data regarding the elements that make up a typical package tour. Despite these difficulties, the compilation of the UK outbound tourism provides a broad indication of UK residents' spending overseas. In 2000, outbound tourism was estimated at $\pounds 24,3$ billion or 27,1% of the total expenditure, indicating a tourism balance of trade deficit with the rest of the world (ROW), as inbound tourists consumed around $\pounds 16,1$ billion or 17,9% of the total expenditure.

Once the travel agents and tour operators' margin has been reallocated to the UK and overseas companies as required, the biggest elements of outbound expenditure is expenditure on 'restaurant, bar and catering services' (\pounds 7 billion or 28,8%), 'accommodation services' (\pounds 6,3 billion or 25,9%) and 'recreation, cultural and other entertainment services' (\pounds 3,2 billion or 13,2%).

The data used to calculate the UK outbound tourism were derived from the IPS. The IPS captured expenditures made by UK residents in the UK in relation to their trip. If a trip is booked through a travel agent or tour operator, IPS deducts estimated travel commission and fares expenditure from travel agents or tour operators' expenditure. Only expenditure incurred abroad is included in the outbound tourism table and the rest of the expenditure (expenditure incurred domestically by UK residents before or after trip) is included in the domestic tourism table. Table C shows the ratios calculated from Table 3 of the UK TSA that was published in 2004.

	Own ratios
Tourism products	calculated
Accommodation services	25,9
Restaurant, bar and catering services	29,0
Passenger transport services	7,5
Travel agency and tour operator services	0,3
Recreation, cultural and other	
entertainment services	13,2
Tourism-connected products	2,1
Non-tourism products	12,9
Distribution margins	9,1
Total	100,0

Table C: UK Table 3 of the TSA – Outbound tourism (%), 2000

Source: UK Department of Culture - 2000 TSA

Production account of tourism industries

The UK production account was calculated from the SU-tables. The UK SU-tables consist of 123 products and 123 industries. The UK used the SU-tables to estimate the value of the output of 'hotels, restaurant and bar industries', comprising 'hotels, restaurant and bar products'. To derive the TSA Table 5 (production account) the UK further disaggregated the hotels, catering, pubs, etc. industries into two sub-groups, namely 'accommodation services' and 'restaurant, bar and catering services' whilst 'Travel agency and tour operator services' are separately identifiable from 'transport and transport services'. Table D shows the ratios calculated from Table 5 of the UK TSA.

	Own ratios
Tourism products	calculated
Accommodation services	5,7
Restaurant, bar and catering services	15,9
Passenger transport services	44,6
Travel agency and tour operator services	0,9
Recreation, cultural and other	
entertainment services	20,0
Tourism-connected products	7,8
Non-tourism products	4,9
Distribution margins	0,2
Total output	100,0
Agriculture and extraction	1,2
Manufacturing in food processing	22,4
Energy and water	1,1
Construction	1,3
Hotels, transport and communication	
services	30,8
Business services	30,2
Community, social and personal services	13,0
Total intermediate consumption	100,0
Taxes less subsidies on production	3,2
Compensation of employees	63,8
Gross operating surplus	33,0
Total gross value added at basic prices	100,0
Source: UK Department of Culture – 2000 TSA	

Table D: UK Table 5 of the TSA – Production account (%), 2000

Table E shows the tourism ratios used to split the UK tourism supply of products and services. The UK assumed 69,5% of the 'hotels and lodging services' output as tourism-specific products and 100,0% of the 'second home services on own account' are also assumed as tourism-specific products.

	Tourism
	ratios on
	supply
Tourism products	given
Accommodation services	71,5
Hotels and lodging services	69,5
Second homes services on own account	100,0
Restaurant, bar and catering services	42,9
Passenger transport services	18,9
Railway transport services	15,6
Other land transport services	8,2
Water transport services	33,2
Air transport services	62,6
Ancillary transport services	1,9
Travel agency and tour operator services	
	99,6
Recreation, cultural and other	
entertainment services	9,9
Tourism-connected products	0,8
Post and telecommunications services	1,4
Financial and insurance services	0,7
Rental services	2,0
Market health services	0,3

Table E: Tourism ratios on supply of tourism products (%), 2000

Source: UK Department of Culture - 2000 TSA

Tourism Employment

The information used to compile Table 7 (tourism employment) for the UK was derived from the ABI and LFS. LFS contains data on employees and the self-employed, while the ABI contains data on the hours worked. The information on jobs by gender, occupational structure and information on status of employment was derived from LFS raw data (unpublished data). The UK has gathered the data to compile Table 7 but have not populated Table 7 as yet.

UK tourism indicators

The information used to compile TSA Table 10(c) was derived from the ABI which contains data on establishments. The UK compiled three sub-sets of tourism indicators. The first sub-table is 'Number of trips and nights by type of tourism and category of visitor' and is shown in Table F(I).

Table F(I): UK Table 10(a) of the TSA – Number of trips and nights by type of tourism and category of visitor, 2000

Own calculations ratios (%)									
	Inbound tourism		Inbound tourism Domestic tourism		Outbound tourism				
	Same-			Same-			Same-		
	day		Total	day		Total	day		Total
Visitors	visitors	Tourists	visitors	visitors	Tourists	visitors	visitors	Tourists	visitors
Trips	7,9	92,1	100,0	85,0	15,0	100,0	8,1	91,9	100,0
Nights		100,0	100,0		100,0	100,0			100,0

Source: UK Department of Culture - 2000 TSA

The second sub-table that the UK compiled is the 'Inbound tourism by number of visitors and means of transport used'. Table F(II) shows the ratios calculated from Table 10 of the UK TSA. In 2000, 70,8% of the inbound visitors to the UK used air transportation as a means of transport, followed by sea (17,0%) and road (12,2%) transport.

Table F(II): UK TSA Ta	ble 10(b) – Inbound touris	m: Number of visitors by
means of	transport, 2000	-

	Number of	Own ratios
Tourism products	visitors	calculated
characteristics	(000)	(%)
Air	17 831	70,8
Sea	4 298	17,0
Road	3 080	12,2
Total	25 209	100,0
Off sea and road:		
Foot	2 998	40,7
Private vehicle	1 936	26,2
Coach	1 411	19,1
Goods vehicle	772	10,5
Unknown	261	3,5
Total	7 378	100,0

Source: UK Department of Culture - 2000 TSA

Table F(III) shows the number of establishments and the number of employed (employees and self-employed) persons in 2000. Of the total number of employees in the UK tourism industries, 29,9% were employed in 'restaurant, bar and catering services', followed by 'recreation, cultural and other entertainment services' (19,1%) and 'financial and insurance' (10,7%) industries.

Table F(III): UK TSA Table 10(c) – Number of establishments in tourism-characteristic and tourism-connected activities classified according to number of employed persons, 2000

Own ratios calculated (%)							
	1–10 11–49 50–199 200 or more						
Establishment	employees	employees	employees	employees	Total		
Hotels and lodging	3,2	6,1	9,4	4,8	3,9		
Restaurant, bar and catering							
services	29,9	34,1	14,4	4,2	29,9		
Railway transport services	0,2	0,1	0,2	1,3	0,1		
Other land transport services	12,3	6,1	8,1	9,3	10,5		
Water transport services	0,3	0,2	0,2	0,4	0,3		
Air transport services	0,3	0,2	0,6	2,1	0,3		
Ancillary transport services	3,0	3,3	4,8	5,1	3,2		
Travel agency and tour							
operator services	2,7	2,5	1,6	1,5	2,6		
Recreation, cultural and							
other entertainment services	21,4	9,8	11,0	7,3	19,1		
Post and							
telecommunications services	4,6	3,9	11,1	14,9	4,8		
Financial and insurance							
services	9,9	13,8	15,0	22,7	10,7		
Rental services	4,9	3,2	2,3	0,9	4,5		
Health services	7,4	16,4	21,3	25,5	10,1		
Total	100,0	100,0	100,0	100,0	100,0		

Source: UK Department of Culture - 2000 TSA

3.2. Construction of the New Zealand Tourism Satellite Account, 2004

Statistics New Zealand compiled the 2004 TSA for NZ according to the recommendation of the 1993 SNA and within the guidelines published by the UNWTO and approved by the United Nations Statistical Commission in 2000. The 2004 NZ TSA was published in 2005. Tourism plays a significant role in the NZ economy in terms of the production of goods and services and the creation of employment opportunities. Tourism contributed 4,9% or (\$6,2 billion) of the total GDP in 2004. NZ compiled the 2004 TSA within an input-output framework.

NZ defined 'usual environment' as the tourist (person) -

- travelling by a scheduled flight or inter-island ferry services; or
- travelling more than 40 kilometres from their residence (one way) and travelling outside the area they commute to for work or visit daily; and/or
- travelling as an international tourist.

In 2004, the size of the NZ population was approximately 4,2 million with total households of 1,3 million.

3.2.1. Main data sources

The main data sources that were used for the compilation of the 2004 TSA for NZ were:

Supply side information:

- Annual Enterprise Survey;
- Retail Trade Survey;
- Input–output tables;
- Quarterly Employment Survey;
- Household Labour Force Survey (HLFS);
- Accommodation Survey; and
- Ministry of Education and the Survey of English Language providers.

Demand side information:

- International Visitor Survey (IVS);
- Domestic Travel Survey (DTS);
- Household Economic Survey (HES); and
- Input–output tables.

The following paragraphs give a brief description of each of these data sources.

International Visitor Survey

The IVS is a quarterly face-to-face survey of international visitors to NZ aged 15 years or older (92,0% of international visitors arriving in NZ during the year ended September 2003 were aged 15 years or older), with a sample size of 5 000 households.

The purpose of the IVS is to provide accurate, quarterly national information on the characteristics, behaviour and expenditure of international visitors. In particular, to measure the amount of expenditure of international visitors; to determine the activities international visitors participate in, the transport and accommodation types used, and places visited. The IVS also provides data for determining the travel credits component in the BoP, tourism expenditure in the TSA, and to provide demographic information about international visitors, their motivation for visiting NZ, and their satisfaction with their visit to NZ.

Accommodation Survey

The NZ accommodation survey is a monthly survey with a sample size of 3 600 units. This survey measures the guests' nights, stay units, occupancy rate, capacity (stay units available) and average length of stay. The target population for this survey is all 'geographic units' (establishments) that are classified as short-term (less than one month) commercial accommodation providers operating in NZ. In terms of the Australian and New Zealand Standard Industrial Classification (ANZSIC), the target population (units) is taken from class 5710 (accommodation) and the part of the class 5720 (pubs, taverns and bars) that also provides accommodation. This survey aims for 100,0% coverage of the population (i.e. a full census). However, an overall response rate of between 76,0% and 80,0% is usually achieved. The remaining units are given imputed¹² values based on the characteristics of similar establishments in the same or similar regions¹³.

Domestic Travel Survey

The DTS is a quarterly survey that measures the travel patterns of New Zealanders within NZ. The target population of the DTS is the resident population aged 15 years and older. The DTS is a telephone-based survey undertaken using Computer Assisted Telephone Interviewing (CATI). Telephone interviewing takes place on a continual basis, with respondents selected through the process of random digit dialling. To ensure a representative sample, daily total quotas, weekly age/sex quotas and monthly regional quotas are used. In 2004, the sample size was around 15 000 interviews per year. A range of data is collected, including day trips, overnight trips, nights away, places stayed, main reason for trips, transport used, activities undertaken and expenditure¹⁴.

The DTS provides information for the calculation of domestic travel by business and government. The DTS does not capture all types of household tourism expenditure, so separate estimates were made for outbound travel purchased from NZ residents firms, off-trip purchases of tourism-specific consumer durable goods, and imputed rental on holiday homes.

Household Economic Survey

The HES is an annual survey. This survey collects information from around 3 000 private NZ households. The information ranges from household spending on apples to new cars. The HES also provides statistics on selected households and their members, so that spending patterns can be linked to the type of households surveyed. There are about 2 300 expenditure items available¹⁵.

¹² Imputation introduces unknown errors into the estimates.

¹³ www.stats.govt.nz

¹⁴ www.tourismresearch.govt.nz/Datasets/Domestic+Travel+Survey/

¹⁵ www.stats.govt.nz/domino/external/web/prod_serv.nsf/htmldocs/consumer+spending

Annual Enterprise Survey

The Annual Enterprise Survey provides a yearly overview of the economy through statistics about the financial position and performance of NZ businesses. The Annual Enterprises Survey covers the entire economy except for residential property operators, foreign government representation, religious organisations, and private households employing staff. There are over 110 industries measured. The survey uses a mix of administrative and sample survey data¹⁶.

Retail Trade Survey

The Retail Trade Survey is a monthly survey with a sample size of 3 350 enterprises. This survey measures the sales of a wide range of businesses that provide household and personal goods and services. Retailers include supermarkets, bookshops, restaurant, hotels, motels, repairers of household equipment and motor vehicles. A time series for the North and South islands is also available.

Input-output tables

Statistics New Zealand compiles input-output tables annually. The NZ input-output tables provide an overview of the whole economy by 210 products and 126 industries.¹⁷. The tables show, in a matrix form, the interactions and dependencies between industries. An input-output table can be used for a wide range of economic analyses, including:

- Identifying and measuring the composition and level of economic activity;
- Understanding the inter-relationships between industries;
- Studying the effects of change in supply and demand throughout the economy;
- Analysis of the flow of goods and services between industries and regions;
- Understanding the volume and significance of material and waste flows by industry, when the model is adapted for this type of use; and
- Providing the basis for the calculation and improvement of the GDP.

Quarterly Employment Survey

The QES measures changes in and levels of average hourly and average weekly (pre-tax) earnings, average weekly paid hours, and the number of filled jobs. Information is collected quarterly from economically significant enterprises, with employees and self-employed persons only, from a range of industries. The sample size of this survey is 47 000 businesses. Direct tourism employment is derived by applying industry ratios to the number of persons engaged in each industry. This produces an estimate of the number of persons engaged in each industry as a result of tourism.

¹⁶ www.stats.govt.nz

¹⁷ www.stats.govt.nz/tables/

The HLFS is a guarterly survey. This survey provides a regular, timely and comprehensive portraval of NZ's labour force. Each guarter, a range of statistics relating to employment, unemployment and people not in the labour force is published. The data are collected using Computer Assisted Interviewing (CAI). The CAI strategy involves a change in mode of data collection from traditional pencil and paper interviewing to CAPI for newly selected households, and from decentralised telephone interviewing to centralised CATI for the remaining households in the sample. The target population for the HLFS is the civilian, usually resident, noninstitutionalised population aged 15 years and older. This means that the statistics in this release do not cover long-term residents of homes for older people, hospitals and psychiatric institutions; inmates of penal institutions; members of the permanent armed forces; members of the non-NZ armed forces; overseas diplomats; overseas visitors who expect to be resident in NZ for less than 12 months; and those younger than 15 years. The HLFS sample contains about 15 000 private households and about 30 000 individuals each quarter. Households are sampled on a statistically representative basis from rural and urban areas throughout NZ, and information is obtained for each member of the household. Each quarter, one-eighth of the households in the sample is rotated out and replaced by a new set of households. Therefore, the overlap between two adjacent quarters can be as high as seveneighths. This overlap improves the reliability of guarterly estimates of change.

3.2.2. Ratios used and ratios calculated from the New Zealand Tourism Satellite Account

NZ tourism expenditure includes spending by overseas visitors and by domestic households, business and government travellers. International tourism expenditure includes spending by international students studying in NZ for less than one year. Table G shows the ratios used to split the tourism expenditure in NZ.

	Share of
	tourism
	expenditure
Tourism products	given
Accommodation services	9,0
Food and beverage services	11,4
Air passenger transport	18,9
Other passenger transport	10,9
Retail sales – fuel and other automotive	
products	8,2
Other retail sales	22,3
Other tourism products	11,9
GST	7,4
Total	100,0

Table G: Share of tourism expenditure by type of product in New Zealand (%),2004

Source: Statistics New Zealand - 2004 TSA

Table H shows the tourism product ratios used in the compilation of the NZ TSA for the year 2004. Non-tourists also buy goods and services that are bought by tourists. The tourism product ratio indicates the proportion of the supply of a product that was purchased by tourists in 2004.

The tourism product ratio for 'accommodation services', for example, was 95,0%, which indicates that almost all accommodation supplied and demanded was bought by tourists. Tourists purchased only 41,0% of the supply of 'food and beverage services'.

Touris as and ducts	Tourism ratios on products
I ourism products	given
Accommodation services	95,0
Food and beverage services	41,0
Air passenger transport	97,0
Other passenger transport	75,0
Retail sales – fuel and other automotive	
products	22,0
Other retail sales	5,0
Other tourism products	5,0
GST	0,0

Source: Statistics New Zealand - 2004 TSA

Tourism expenditure

Tourism expenditure in NZ is divided into three types of tourists, namely, international (inbound and outbound) tourists, household (domestic) tourists and business and government tourists (including only overnight tourists). Domestic tourists are further divided into overnight tourists and same-day visitors.

International tourism expenditure

The major data source used in the calculation of expenditure by overseas tourists in NZ was derived from the IVS published by Tourism NZ. The IVS was extrapolated to the population estimates using migration (arrivals and departure statistics) data. This survey was also supplemented with breakdowns from balanced input-output tables. Broad level estimates of international visitor expenditure in NZ were derived from transportation and travel services items in the balance of payment (BoP). NZ TSA totals exclude persons who visit NZ specifically to obtain medical treatment. The totals were then broken down into tourism products.

Tourism expenditure by international students

Tourism expenditure by international students studying for less than one year in NZ was calculated using the following steps:

- The total number of international students was obtained from the Ministry of Education and the Survey of English Language providers. The latter is an annual Statistics NZ survey to collect information on the expenditure of international students studying at NZ English-medium schools, categorised by tuition and other fees, and accommodation costs;
- The number of international students studying in NZ for less than 12 months is derived as a proportion of total student numbers using short-term passenger arrivals visiting NZ for education or medical purposes;
- Expenditure on course fees and living costs is calculated using balance of payments (BoP) data and methodology. The BoP estimates include course costs and living costs per student for students studying at schools, tertiary institutions, private English Language Providers and for those on study tours;

- Expenditure on airfares is derived using BoP transportation credits data. Expenditure on airfares by students in NZ for less than one year is obtained as a proportion of the total airfare income of resident airlines; and
- Total expenditure by international students in NZ for less than one year is the sum of the estimates of expenditure on course fees, living costs and airfares.

Household tourism expenditure

Household tourism expenditure is divided into household domestic travel expenditure, outbound travel purchased expenditure, off-trip purchases of tourism-specific products and imputed rental on holiday homes.

Household domestic travel expenditure

Household domestic travel expenditure was derived from the DTS. These data were supplemented with data from the HES and other data sources. The DTS was extrapolated backward, in order to match as closely as possible, product expenditure data from the DTS with Household Consumption Expenditure (HCE) product categories used in the national accounts. The household domestic travel expenditure was then split into tourism-specific products to allow comparison with the supply side data. The DTS does not capture all types of household tourism expenditure, so separate estimates were made for outbound tourism, off-trip purchases of tourism-specific products and imputed rental on holiday homes. Table I shows the ratios calculated from NZ domestic tourism. In 2004, domestic tourists spent a major part of their expenditure on 'retail sales products' (37,7%), followed by 'retail sales – fuel and other automotive products' (16,1%) and 'other tourism products' (13,6%).

	Own ratios
Tourism products	calculated
Accommodation services	6,4
Food and beverage services	10,6
Air passenger transport	9,5
Other passenger transport	6,1
Retail sales – fuel and other automotive	
products	16,1
Retail sales	37,7
Other tourism products	13,6
Total tourism products	100,0

Table I: NZ Table 2 of the TSA – Domestic tourism (%), 2004

Source: Statistics New Zealand – 2004 TSA

Outbound travel purchased from New Zealand resident firms

The outbound tourism expenditure was estimated from a variety of sources, including company annual reports, balance of payment data and data from HES. Household tourism expenditure in the TSA includes expenditure on overseas travel where New Zealanders purchase NZ produced goods and services. This expenditure includes fares paid to resident air carriers for flying a household tourist overseas, commissions paid to resident travel agents for booking household outbound travel, pre-paid travel insurance, and vaccinations needed by household outbound tourists. Table J shows the outbound tourism ratios calculated from the NZ TSA tables.

Table J. NZ Table 3 of the TSA – Outbound tourism (%), 200	Table -	J: NZ	Table	3 of the	TSA -	- Outbound	tourism	(%),	2004
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	Own ratios
Tourism products	calculated
Accommodation services	12,8
Food and beverage services	16,7
Air passenger transport	25,2
Other passenger transport	10,2
Retail sales – fuel and other automotive	
products	2,6
Retail sales	18,1
Other tourism products	14,4
Total tourism products	100,0

Source: Statistics New Zealand – 2004 TSA

Off-trip purchases of tourism-specific consumer durable goods

Off-trip expenditure by households on tourism-specific products such as tents and sleeping bags is included in household tourism expenditure. The off-trip expenditure is divided into the provisional account and final account. The provisional account provides the unbalanced estimate figures of the off-trip expenditure while the final account provides the final balance figures of the off-trip expenditure. These off-trip purchases were based on data from the HES and were calculated in addition to the on-trip purchases of these goods. Off-trip expenditure by households on tourism-connected products was estimated using product breakdown from the latest final account to split household consumption expenditure groupings.

Imputed rental on holiday homes

The TSA includes an imputed rental on dwellings owned by households that are used as holiday homes. The imputed rental price was calculated using census data and movements in the relevant producer's price index (PPI). The number of holiday homes was multiplied by the imputed rental price to give the imputed rental value.

Business and government travel expenditure

Business travel expenditure was drawn from intermediate consumption by product of the private sector industries in the balanced input-output tables. This was supplemented by other data sources, including the Annual Enterprise Survey, and the DTS. Travel expenditure by central government agencies and department was calculated by directly surveying a sample of agencies and applying the results across all government agencies. Travel expenditure by central government market units used the same input-output method as for business travel.

Production of tourism goods and services

Production of tourism goods and services was derived from input-output tables. The output product data from balanced input-output tables were rearranged to focus on tourism-characteristic and tourism-related products. Total sales by each industry were arranged into tourism-characteristic, tourism-related and non-tourism-related products. Table K shows NZ's production account ratios calculated from the NZ TSA tables and ratios used to split the tourism supply products. Column 2 (tourism ratios on products given) shows the ratio NZ made on their products and services.

For example, in 2004, the tourism product ratio for 'air passenger transport services' was 97,0%. This means that almost all 'air passenger transport services' supplied were bought by tourists. Tourists purchased only 22,0% of the 'retail sales – fuel and other automotive products'. Column 3 shows the ratios calculated from Table 5 of the TSA (production account) published in 2005.

Tourism products	Tourism ratios on products qiven	Own calculations ratios from tourism supply
Accommodation services	95,0	9,7
Food and beverage services	41,0	12,3
Air passenger transport services	97,0	20,4
Other passenger transport services	75,0	11,8
Retail sales – fuel and other automotive		
products	22,0	8,9
Retail sales	5,0	24,1
Other tourism products	5,0	12,8
Total tourism products		100,0

Table K: NZ Table 5 of the TSA – Production account (%), 2004

Source: Statistics New Zealand - 2004 TSA

Direct tourism employment

NZ's direct tourism employment was derived by applying tourism industry ratios to the number of persons engaged in each industry. This produced an estimate of the number of persons engaged in each industry as a result of tourism. Employee numbers (full-time, part-time and full-time equivalent persons engaged) by each industry were sourced from the QES. Exceptions were the water transport and agriculture industries, as employment for some parts of these industries was not surveyed in the QES. Employee numbers for these industries were taken from the HLFS.

Table L shows the total full-time equivalent (FTE) of persons (employees and proprietors) directly engaged in tourism. Direct tourism employment is divided into full-time employees, part-time employees and FTE employees. A full-time employee makes up one FTE, while a part-time employee makes up a 0,5 FTE employee.

T	Number of employees	Number of employees	Own ratios calculated	Annual change
Tourism employment	(2003)	(2004)	(2004)	(2004)
Total employment				
Full-time employees	1 182 600	1 224 200	62,6	3,5
Part-time employees	360 100	362 500	18,6	0,7
FTE employees	1 362 650	1 405 450		3,1
Full-time proprietors	293 000	297 900	15,3	1,7
Part-time proprietors	64 900	67 900	3,5	4,5
FTE proprietors	325 450	331 850		2,0
Total FTE persons engaged	1 688 100	1 737 300		2,9
Total employment	3 124 200	1 952500	100,0	
Tourism employment				
Full-time employees	59 000	60 400	46,7	2,4
Part-time employees	53 800	49 700	38,5	-7,5
FTE employees	85 900	85 250		-0,7
Full-time proprietors	16 600	15 700	12,2	-5,4
Part-time proprietors	3 400	3 400	2,6	-2,2
FTE proprietors	18 300	17 400		-5,1
Total FTE persons engaged	104 200	102 650		-1,5
Total tourism employment	132 800	129 200	100,0	

Table L: NZ Table 7 of the TSA – Direct tourism employment (%)

Source: Statistics New Zealand – 2004 TSA

NZ defines full-time employees as employees who work more than 30 hours a week, while a part-time employee is one who works less than 30 hours a week.

Of the number of employees and proprietors employed in the NZ's tourism industries in 2004, 46,7% of employees were appointed on a full-time basis, 38,5% of employees were appointed on a part-time basis, 12,2% of proprietors were appointed on a full-time basis while 2,6% of the proprietors were appointed on a part-time basis.

In 2004, NZ experienced a 1,5% decrease of FTE persons directly engaged in tourism. The decrease can be due to a lag between growth in a given industry and decisions made to employ new staff. There may be a shift in the number of hours worked, or in output per FTE. The convention of defining part-time employees as equivalent to 0,5 FTE may not always be a true representation of the differences in hours worked.

Tourism product

The tourism product ratio is the proportion of the supply of goods and services consumed by tourists. NZ classified a product as a tourism-characteristic product if at least 25,0% of its production is purchased by tourists. NZ assumed that tourism-characteristic products are the products of which tourists purchased between 0,0% and 25,0% of its production and non-tourism-related products are those that were not purchased by tourists. Tourism-related products are products of which tourists purchased not less than 0,0% and not more than 0,25%.

Industries producing tourism products

The tourism industry ratio is the proportion of an industry's output consumed by tourists. A tourism-characteristic industry was assumed as one where at least 25,0% of the industry's output is purchased by tourists. For example, 25,0% of the water transport industry output in NZ is consumed by tourists.

A tourism-related industry was assumed to be an industry where at least between 5,0% and 25,0% of the industry's output is purchased by tourists. The non-tourism-related industry is any industry that is not a tourism-characteristic industry or tourism-related industry, but however, it may still sell some of its products to tourists.

Of the total tourism expenditure in 2004, domestic tourists contributed \$7 681 million (44,6%) of the total NZ tourism expenditure, international tourists contributed \$7 435 million (43,1%) and business and government tourists \$2 120 million (12,3%) of the total tourism expenditure in the NZ. Table M shows the example of ratios calculated from NZ's tourism consumption expenditure in 2004.

		Own
		ratios
Tourism products	\$ ('000)	calculated
Accommodation services	1 546	8,9
Food and beverage services	1 956	11,3
Air passenger transport	3 253	18,9
Other passenger transport	1 880	10,9
Retail sales – fuel and other automotive		
products	1 415	8,2
Retail sales – other	3 848	22,3
Other tourism products	2 057	11,9
Goods services tax (GST) paid on purchases		
by tourists	1 280	7,6
Total tourism expenditure	17 235	100,0

 Table M: NZ tourism expenditure by type of product (%), 2004

Source: Statistics New Zealand – 2004 TSA

3.3. Construction of the Canadian Tourism Satellite Account, 2000

Statistics Canada (StatCan) in partnership with the Canadian Tourism Commission developed the 2000 TSA for Canada that was published in 2005. The TSA provides a yardstick for the comparison of the tourism industry with all other industries in the Canadian economy. The 2000 TSA measures tourism in terms of expenditure, gross domestic product (GDP) and employment. Tourism contributed 2,2% or \$53,7 billion of the total GDP in 2000. Canada compiled the 2000 TSA within an input-output framework. Canada defined the concept of 'outside the usual environment' as greater than 80 kilometres one way from home.

In 2000, the size of the Canadian population was approximately 30,0 million with total households of 11,5 million.

3.3.1. Main data sources

The data used in the construction of TSA come from a number of surveys produced by StatCan. These include:

Supply side information:

- Labour Force Survey;
- Survey of Employment, Payroll and Hours (SEPH); and
- Input-output tables.

Demand side information:

- Canadian Travel Survey (CTS);
- International Travel Survey of Canadian Residents (ITS);
- Canadian Resident Questionnaire for Same Day Automobile Travel between the U.S. and Canada;
- United States Resident Questionnaire for Same Day Automobile Travel between the U.S. and Canada;
- Government Travel Survey of US Visitors to Canada;
- Government Travel Survey of Visitors to Canada; and
- Input-output tables.

The following paragraphs give a brief description of each of these data sources.

Canadian Travel Survey

The CTS is a quarterly survey and measures the volume, characteristics and spending of domestic travel, which is defined as same-day or overnight travel to Canadian destinations with a one-way distance of 80 kilometres or more from home.

International Travel Survey of Canadian Residents

The ITS is an annual survey and is collected in four flows: Canadians returning from the USA; Canadians returning from other countries; visitors from the USA to Canada; and visitors from other countries to Canada. This survey collects data on the following topics: Canadians travelling outside the country and visitors to Canada, port of entry, Canadian residents, non-residents, vehicles, receipts, payments, country of residence, expenditure, length of stay, type of transportation, purpose of trip, accommodation used, expenditure by category and age group.

Canadian Resident Questionnaire for Same Day Automobile Travel between the U.S. and Canada

The Canadian Resident Questionnaire for Same Day Automobile Travel between the U.S. and Canada is a quarterly survey. The target population is all Canadian residents who return to Canada and all visitors entering Canada except for crews, diplomats and their dependants, refugees, landed immigrants, members of the military, and former Canadians residents.

United States Resident Questionnaire for Same Day Automobile Travel between the U.S. and Canada

The United States Resident Questionnaire for Same Day Automobile Travel between the U.S. and Canada is a quarterly survey. The target population is US and Canadian residents travelling between Canada and the U.S. using road transport except for crews, diplomats and their dependants, refugees, landed immigrants, members of the military, and former Canadians residents.

Labour Force Survey

The Canadian LFS is a monthly survey with a sample size of 54 000 households. It covers the civilian, non-institutionalised population 15 years and older. It excludes the residents of the Yukon, Northwest Territories and Nunavut, persons living on Indian Reserves, full-time members of the Canadian Armed Forces and inmates of institutions.

This survey uses a probability sample that is based on a stratified multi-stage design. Data are collected directly from respondents using CAI.

Like the GDP, tourism employment is calculated at industry level. Therefore Canadian tourism employment calculation used the same industry ratios as the GDP to calculate the tourism portion of each industry. For example, if the demand/supply ratio for an industry is 50,0%, half of this industry's employment is allocated to tourism. This calculation is done for all tourism-connected industries. The shares will then be summed to arrive at total tourism employment within Canada.

Survey of Employment, Payroll and Hours

SEPH is Canada's only source of detailed information on the total number of paid employees, payrolls, and hours at detailed industrial, provincial and territorial levels. This survey is a census with a cross-sectional design. Data are collected directly from survey respondents and extracted from administrative files. SEPH is a monthly survey. Each month, SEPH releases statistics for the two latest reference months. They represent preliminary estimates for the current month and the revised estimates for the previous month. The sample size of SEPH is 10 000 establishments.

Input-output tables

The input-output tables are calculated at national, provincial and territorial level. They consist of 300 industries and 727 products. National tables are produced on an annual basis (starting with the 1961 reference year) and completed in June each year with a 30-month lag from the reference year. Provincial tables are produced annually (starting with the 1997 reference year) and released together with the national tables in November of each year with a 34-month lag from the reference year. The provincial and territorial levels are also produced on an annual basis only. They are available about two and a half years after the end of the reference year, because of the delay in obtaining the needed source data and the complex nature of producing such a detailed account.

3.3.2. Ratios used and ratios calculated from the Canadian Tourism Satellite Account

Canada used the UNWTO definitions of tourism which include, for example, Canadians (domestic visitors) travelling within the country (80 kilometres or more from home), Canadian residents travelling abroad (outbound visitors), and non-residents (inbound visitors) travelling to Canada. Canada did not separate the sameday visitors from the tourists. Several important exceptions were made to the definition of the usual environment. Commuting, travelling for education, armed forces and diplomats as well as migration were not included in the estimates. Crossing an international boundary is considered tourism no matter the distance travelled.

Estimates for Canadian tourism supply were derived from input-output tables. The input-output tables were constructed using several large matrices of data that record the inputs and outputs of 300 industries and 727 products. However, the industry categories provided in the input-output tables are not detailed enough for the construction of a TSA. For example, the Canada input-output tables display industry estimates only for the total food and beverage industry.

In order to compile the TSA this industry needs to be split, using information from input-output tables detailed calculation, into sub–industries, since some of the sub-industries may not be included in the tourism account. For example, two sub-industries within the food and beverage industry are take-away food restaurants and caterers. Take-away food restaurants are considered a tourism industry and their supply is included in the estimates. Caterers are omitted since they are a non-tourist industry. Only tourism products remain in the calculation of total supply. Only products in the take-away food industry that are purchased by tourists are retained while non-tourist products are taken out.

After the tourism industries and products had been identified, supply shares were calculated. For example, if two sub-industries each provided one half of an industry's supply of meals, then the supply shares would equal 50,0% for these commodities for each sub-industry. These shares are used later to allocate demand by industry. Taxes were added to all supply estimates obtained from the input-output tables to move the data from producers' prices to purchasers' prices, thereby matching the pricing used for the demand data.

Canada used a special calculation for travel agencies. Commissions on travel arrangements and tour packages were used for the output of this industry. The data were not specifically calculated in the travel surveys, and an adjustment was therefore made for them in the Canadian TSA.

Demand estimates for the Canadian TSA were derived from two main sources, namely the CTS and the ITS. Demand estimates were calculated the same way as the supply estimates. The CTS provides data for domestic business and personal tourism expenditure by province and territory. It also supplies information that identifies the purpose for visiting a region, the duration of stay and the activities undertaken while at the tourist location. The ITS provides estimates for non-resident demand (separately for the US and other countries) within Canada as well as imports of tourism. This survey was initially conducted to provide data for Canada's balance of payments.

The data for Table 7 of the TSA were derived from the LFS and SEPH. The labour surveys use the same industry classification system as input-output tables, thereby allowing for a complete match between the two sets of data.

Tourism's contribution to tourism industries

Canadian tourism's largest impact is on travel agency services. These activities were the most reliant on tourism in 2000, with 91,0% of this industry's economic activity coming from tourism. Other key tourism activities most affected by tourism in 2000 were the 'air transportation industry' and 'accommodation services'. For the 'air transportation industry', tourism accounted for 78,0% of the industry's GDP. The remaining portion of the industry was mostly involved in the carrying of freight. Tourism accounted for 66,0% of the economic activity in the 'accommodation industry'. This industry also produced 'restaurant services and recreation services' that have lower tourism ratios than the 'accommodation products' mainly produced by this industry.

Tourism's contribution to non-tourism industries

Tourism does not only benefit industries that are identified as tourism industries, such as transportation or accommodation. There are various industries that produce goods and services that are purchased by tourists, such as groceries, souvenirs and other retail goods. Canadian tourists spent \$8,7 billion buying such goods and services. This accounted for 22,5% of the tourism GDP in 2000. Tourism generated 119 000 jobs within these industries with an average annual wage of \$29 200. Most of the spending within non-tourism industries occurs in the retail and wholesale trade industries, particularly those related to camping trailers, tobacco, men's and women's clothing, and vehicle fuel.

Inbound tourism

Tables N–P show the ratios used to split the tourism consumption expenditure in 2000. Inbound tourism accounted for \$17,8 billion or 23,9% worth of tourism expenditure in Canada in 2000. Over half of the expenditure was on transportation and accommodation. Non-resident visitors spent more on a night paid accommodation than resident visitors. Table N shows the spending patterns of non-resident visitors in 2000.

	Own ratios
Tourism products	calculated
Transportation	27,0
Accommodation	24,0
Food and beverage services	17,0
Other tourism products	13,0
Non-tourism products	19,0
Total	100,0

Table N: Canada Table 1 of the TSA – Inbound tourism (%), 2000

Source: ABS – 2000 TSA

Domestic tourism

Canadians were encouraged to travel in their own country as a result of a low Canadian dollar as compared to US dollar. Domestic visitors spent \$35,9 billion or 48,1% of the total tourism expenditure in 2000. Table O shows the tourism expenditure by domestic tourists travelling in Canada in 2000. Transportation was the largest component of domestic tourism spent (42,0% of the total expenditure). This was due to the vast geography of the country and an increase in fuel prices during 2000.

Table O: Canada Table 2 of the TSA – Domestic tourism (%), 2000

	Own ratios
Tourism products	calculated
Transportation	42,0
Accommodation	11,0
Food and beverage services	14,0
Other tourism products	18,0
Non-tourism products	15,0
Total	100,0

Source: ABS – 2000 TSA

In 2000, Canadians travelling abroad spent \$20,9 billion or 28,0% of the total tourism expenditure. Canadians spent more on transportation and accommodation outside Canada than what non-resident visitors spent in Canada. Table P shows the ratios used to split the outbound tourism expenditure in 2000.

Table F. Callaulali Table 3 of the TSA – Outboullu tourishi, 2000	Table P	: Canadian	Table 3	of the	TSA -	- Outbound	tourism,	2000
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Tourism products	Own ratios calculated
Transportation	31,0
Accommodation	30,0
Food and beverage services	19,0
Other tourism products	9,0
Non-tourism products	11,0
Total	100,0

Source: ABS – 2000 TSA

Tourism employment

Table Q shows tourism employment in Canada for the years 2000 and 1998. Tourism generated 610 0000 jobs and contributed 4,0% to total employment in 2000. The most jobs were in the 'accommodation industry' (\pm 159 400 workers or 26,1%) and 'food and beverages industry' (\pm 143 200 workers or 23,5%). About 20,0% of the jobs benefited non-tourism industries (industries that produce goods and services bought by tourists).

			(%)		
	Tourism em ('00	ployment 0)		Own ratios calculated	
Tourism industry	2000	1998	Growth	2000	
Transportation	85,5	80,8	5,9	14,0	
Accommodation	159,4	154,5	3,2	26,1	
Food and beverage services	143,2	126,5	13,2	23,5	
Other tourism industries	102,9	95,0	8,3	16,9	
Other industries	119,0	109,1	9,1	19,5	
Total tourism employment	610,0	565,9	7,8	100,0	

Table Q: Canadian Table 7 of the TSA – Tourism employment, 2000

Source: ABS – 2000 TSA

3.4. Construction of the Austrian Tourism Satellite Account, 1999

Statistics Austria, in collaboration with the Ministry of Economic Affairs and Labour and the Austrian Institute of Economic Research (WIFO), developed a TSA for Austria for the reference year 1999 that was published in 2001. The latter provides the economic size of tourism, which is consistent with similar size measures of other national or international industries. The Austrian TSA comprises Tables 1 and 2 and Tables 4–6, and their next step will be to obtain information related to Tables 7–9. Austria does not compile Table 3 (outbound tourism) due to a lack of data. Tourism contributed 7,2% or (ATS 194,4 billion) of the total GDP in 1999. An input-output model was constructed to measure the total impact of tourism in Austria. In 1999, the size of the Austrian population was 8,1 million with total households of 3,5 million.

3.4.1. Data sources used

Austria used the following data to populate their TSA tables for 1999:

Supply side information:

- Economic Census for Industry;
- Input-output tables;
- Supply matrix (it is derived from input-output tables); and
- Balance of Payments (complied by the Austria Central Bank (publishing the travel balance, which consists of the expenditure of non-resident tourists in Austria)).

Demand side information:

- Input-output tables;
- Quarterly surveys on holiday and business trips;
- Austrian Guest Inquiry Survey; and
- Household Survey in Germany.

The following paragraphs give a brief description of each of these data sources.

Economic Census for Industry

The Economic Census for Industry is an annual survey. These surveys provide statistics on merchandise trade, new constructions put in place, new residential construction; retail sales; wholesale sales; manufactured goods, inventories, orders; business sales and inventories; and corporate profit.

Quarterly surveys on holiday and business trips

Surveys on holiday and business trips are carried out at quarterly intervals and involve about 3 000 Austrian residents aged 15 years and older, who are selected so as to represent the Austrian population (net random survey). Data are collected during telephone surveys (CATI).

Balance of Payments (complied by the Austria Central Bank (publishing the travel balance, which consists of the expenditure of non-resident tourists in Austria))

The Austria Central Bank compiles the BoP and publishes the travel balance, which consists of the expenditure of non-resident tourists in Austria (debits) and the expenditure of resident tourists abroad. Travel covers goods and services including those related to health and education acquired from an economy by travellers (including excursionists) for business and personal purposes during their visits (of less than one year) in that economy. Travel excludes international passenger services, which are included in transportation. Students and medical patients are treated as travellers, regardless of the length of stay. Military and embassy personnel and non-resident workers are not regarded as travellers. However, expenditure by non-resident workers is included in travel, while that of military and embassy personnel is included in government services.

Austrian Guest Inquiry Survey

The Austrian Guest Inquiry Survey is a three-year-interval survey. This survey provides quantitative and qualitative information about domestic and inbound tourism within Austria by seasons. The Austrian Guest Inquiry Survey measures the movements of resident and non-resident tourists into and out of Austria. The information is collected at the airport and boarder ports of the country. The target population for this survey is all Austria's resident and non-resident tourists aged 15 years and older. In this inquiry, monetary data are requested which give an overview of the expenditure incurred by resident and non-resident tourists. The business tourism expenditure is not included, only expenditure incurred by resident and non-resident tourists is included in this survey.

Household Survey

The Household Survey is a quarterly survey. This survey interviews 12 000 households per year (3 000 per quarter) about their outbound and domestic holiday and business trips. The information is collected using the CATI techniques in the following month of the reporting quarter in order to minimise possible memory gaps. The target population is all Austria's residents aged 15 years and older.

Input-output model

The use of input-output analysis has many useful consequences such as the interpretation of the results. However, the restrictive assumptions of the input-output model must also be taken into consideration.

During the period of analysis, Austria made the assumption that the quantity relations of the inputs (in terms of percentages to the output) are kept constant and independent of the production level. This means that input-output analysis is based on linear control conditions of production. Substitution input opportunities do not exist. The assumption of a linear control production technique means that demand and supply elasticities are not considered. Economies of scale are also excluded from the analysis and the profit share is constant and independent of the production level. The output of each industry is homogeneous and produced with one technology.

Since Austria had made the restrictive assumption, the results of the input-output analysis can only be cautiously applied with respect to practical problems, especially for marginal demand increases. In tourism, often free capacities exist which allow employment and the capacities themselves to react upon demand changes only after capacity utilisation has achieved a given level for a given period of time. An additional consideration is that labour force and physical capital is regarded as an entire unit, which cannot be decomposed into smaller elements.

3.4.2. Ratios used and ratios calculated from the Austrian Tourism Satellite Account

Table R shows the tourism supply ratios used to split Austria's tourism industries. In 1999, tourists bought 87,9% respectively of the 'accommodation' and 'food and beverages' services of the total expenditure supplied and 0,7% respectively of the 'tourism-connected' and 'non-tourism-connected' services.
	Tourism ratios on supply
Tourism industries	given
Accommodation services	87,9
Food and beverage services	87,9
Passenger transport services	24,9
Travel agency and tour operator	
services	100,0
Cultural, recreation and other entertainment and miscellaneous	
tourism services	57,4
Tourism-connected services	0,7
Non-tourism services	0,7

Table R: Tourism ratios by tourism industries in Austria (%), 1999

Source: Statistics Austria – 1999 TSA

Inbound tourism

For inbound same-day visitors it was assumed that all same-day visitors who travelled to Austria were from neighbouring countries such as Germany, Italy, Switzerland, Slovakia, the Czech Republic, and Hungary. It was also assumed that same-day visitor did not use other services as overnight tourists would, such as package tours, tour operators, accommodation, tourist guide services, travel agencies, etc. Table S shows ratios calculated from Table 1 of the Austrian TSA.

Table S: Austria Table	1 of the TSA –	Inbound tourism	(%), 1999
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	Own ratios	Own ratios calculated		
Products	Same-day visitors	Overnight visitors		
Hotel and restaurants	0,0	26,0		
Food and beverage services	72,0	44,0		
Transportation	8,0	14,0		
Travel agencies	0,0	2,0		
Cultural services	20,0	14,0		
Total	100,0	100,0		

Source: Statistics Austria – 1999 TSA

Domestic tourism

Austria's domestic tourism comprises the expenditure of Austrian residents within the country as well as the period of outbound trips before leaving Austria and after returning to Austria. Domestic tourism expenditure includes the pre- and post-trips expenditure incurred domestically by domestic visitors and outbound visitors. Due to the lack of data, it was assumed that resident same-day visitors do not make use of travel agencies, tour operators and tourist guide services. Table T shows the ratios calculated from Austria's domestic consumption expenditure in 1999.

	Own ratios calculated		
	Same-day Overnight		
Products	visitors	visitors	
Hotel and restaurants	0,0	47,0	
Food and beverages	72,0	27,0	
Transportation	8,0	13,0	
Travel agencies	0,0	11,0	
Cultural services	20,0	2,0	
Total	100,0	100,0	

Table T: Austria Table 2 of the TSA – Domestic tourism (%), 1999

Source: Statistics Austria – 1999 TSA

Production account

Table U shows the tourism product ratios calculated from the Austrian production account.

Table U: Austria Table 5 of the TSA - Production account (%), '	1999
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	Own ratios calculated from tourism	Tourism ratios on products
Products	supply	given
Accommodation services	45,9 ¹⁸	88,0
Food and beverage services	0,0	88,0
Passenger transport services	29,8	25,0
Travel agencies	9,9	100,0
Cultural services	6,6	57,0
Recreation and other entertainment	5,6	0,0
Miscellaneous tourism services	0,0	0,0
Non-tourism services	2,2	0,7
Value of imported goods	0,0	0,0
Total output	100,0	0,5
Intermediate consumption	0,0	0,0
Total gross value added	0,0	0,0
Tourism ratio supply	0,0	2,0
Tourism value added	0,0	0,0

Source: Statistics Austria – 1999 TSA

3.5. Construction of the Australian Tourism Satellite Account, 2004/05

The Australian Bureau of Statistics (ABS) compiled the 2004/05 TSA for Australia according to the recommendations of the 1993 SNA, Tourism Satellite Accounts Methodological Framework (TSARMF) and the UNWTO methodology. The 2004/05 TSA was published in April 2006. The first Australian TSA was compiled for the reference year 1997/98 followed by 2000/01. Tourism contributed 3,7% or (\$32,6 billion) of the total GDP in 2004/05. Australia compiled the 2004/05 TSA within a supply and use framework.

¹⁸ 45,9% is the combined contribution of both the accommodation services and food and beverages services.

Australia defines the usual environment as the locations up to 40 kilometres (one way) from home for overnight trips and up to 50 kilometres from home (round trip) for day trips.

In 2004, the size of the Australian population was approximately 20,7 million with total households of 4,4 million.

3.5.1. Data sources

For the compilation of the 2004/05 TSA, Australia used the following data sources:

Supply side information:

- Goods and services tax;
- Supply and Use Tables;
- Economic Activity Survey Tax;
- Labour Force Survey; and
- Service Industries Survey.

Demand side survey:

- Household Expenditure Survey;
- National Visitors Survey;
- International Visitors Survey;
- Overseas Arrivals and Departure Survey; and
- Tourism Research Australia Survey.

The following paragraphs give a brief description of each of these data sources.

Supply and Use Tables

Australia compiles SU-tables on a quarterly basis. The quarterly SU-tables are used to increase the coherency of the quarterly estimates, by systematically assessing the discrepancies between the three independent measures of GDP that underpin the quarterly national accounts¹⁹. The Australian SU-tables include 33 products and 33 industries.

The SU-tables provide the control totals for industry output of products and the inputs required to produce those products. Domestic visitor numbers are sourced from the National Visitors Survey. Data on international arrivals and departures by country of residence and destination were taken from the Overseas Arrivals and Departures Survey.

National Visitors Survey

The National Visitors Survey is a quarterly survey and its purpose is to provide estimates of the volume and nature of travel by domestic travellers and information about the characteristics and behaviour of domestic travellers. Approximately 80 000 interviews are conducted annually. This survey collects information such as main purpose of trip and visit; type of transport used; type of accommodation used; length of trip; seasonality of trip; age and sex of travellers; travel party type and size; leisure activities; itemised expenditure; lifecycle; employment status and household income; and Olympics intentions.

¹⁹ www.abs.gov.au

Data are collected by computer assisted telephone interviews of Australians aged 15 years and older. Interviews are conducted continuously throughout the year, on both weekdays and weekends. Respondents are interviewed regarding their recent overnight trips, day trips and outbound trips they have taken, consistent with the international framework for the collection of tourism statistics.

International Visitors Survey

The IVS is a quarterly survey and its purpose is to enhance the development of tourism in Australia by measuring the travel behaviour and characteristics of overseas visitors. Data are collected on the following topics which are cross-classified by country of residence and purpose of visit:

- Age, sex, occupation and all reasons for visit;
- Travel arrangements (inclusive or group tour);
- Size and composition of group and reasons for visit;
- Type of fare and pre-paid arrangements;
- Type of information sources;
- Time away from home and stop-overs;
- City of arrival and departure;
- Duration of stay and region of stay;
- Type of accommodation;
- Activities undertaken;
- Places of interest visited; and
- Expenditure and income.

Information on characteristics of short-term international visitors aged 15 years and older is collected by face-to-face interviews. A sample of 20 000 departing international visitors is surveyed at departure lounges of international airports throughout the year²⁰.

Household Expenditure Survey

The HES runs on a five-year period and collects detailed information about the expenditure, income and household characteristics of a sample of households resident in private dwellings throughout Australia. Average weekly expenditure on over 600 goods and services can be obtained from the survey and cross-classified with household income, household characteristics and broad geographical areas (state, capital city, other urban and rural). More specifically the HES is used to update the weighting pattern of the Consumer Price Index (CPI) to ensure it adequately reflects the spending habits of the Australian population. The CPI is an indicator of the rate of change in prices paid by consumers for the goods and services they buy.

Economic Activity Survey Tax

The Economic Activity Survey Tax is an annual survey and its main purpose is to measure the size and structure of the retail and wholesale industries, and to provide updated benchmarks for statistical use, especially for Australia's National Accounts. The size of the sample survey is approximately 16 000 businesses. However, all units with significant retail or wholesale activity will be included with a sample taken of the smaller contributors.

²⁰ www.abs.gov.au

Labour Force Survey

The Australian LFS is a monthly survey that measures persons who are currently economically active, employed and unemployed, hours of work, full-time and part-time employment, job tenure, duration of unemployment, industry, occupation, status in employment, gender, age, and birthplace. It also partially measures time-related underemployment²¹. The sample is 33 000 households aged 15 years and older.

Services Industries Survey

The Services Industries Survey is conducted every three years and collects financial, employment and some activity information about all employing organisations in the services industries. The survey sample includes the businesses and organisations mainly engaged in the film and video production, distribution and exhibition industries; the radio and television services industries; and the libraries, museums, botanic gardens and the arts industries. The scope of the collection is based on the ANZSIC.

Overseas Arrivals and Departure Survey

The Overseas Arrivals and Departures Survey is an annual survey that measures the movements of travellers into and out of Australia (i.e. multiple movements of an individual during a given reference period are each counted separately). This survey excludes the movements of operational air and ships' crew, transit passengers who pass through Australia but are not cleared for entry and passengers on pleasure cruises commencing and finishing in Australia aboard ships not then engaged on regular voyages. Overseas arrivals and departures data are required by Australian governments to examine the impacts of tourism on policy issues such as infrastructure and the labour market, monitoring and analysing tourism trends for tourism marketing strategies and establishing future directions. Providers of services such as airlines and other transport groups, tourist attractions, hotel groups and tourism retailers are major users of overseas arrivals and departures data which are required, with other sources of data, for market research.

Tourism Research Australia Survey

The TRA is an annual survey that measures the profile characteristics of the Australian traveller, both within Australia and overseas, and behaviour and expenditure of international visitors to Australia.

3.5.2. Ratios calculated and ratios used from the Australian Tourism Satellite Account

The Australian estimates of tourism gross value added, tourism GDP and tourism employment relates to the direct impact of tourism only. A direct impact occurs where there is a direct relationship (physical and economic) between the visitors and producers of goods or services.

²¹Time-related underemployment means the employed persons who want, and are available for, more hours of work than they currently have.

Australia constructed their TSA based on the SU-tables. The SU-tables for the Australian economy provide the framework in which data for visitor expenditure (demand) and industry output (supply) are integrated and made consistent in the TSA benchmark. Moreover, they provide the means of calculating tourism gross value added and tourism GDP. The Australian SU-tables contain 53 industries and 225 products. To derive TSA, SU-tables is aggregated into tourism-specific products and industries, tourism-related products and industries producing them (both tourism-specific and tourism-related products) and non-tourism-related products and industries.

The most significant assumptions in the compilation of the 2004/05 Australian TSA relate to the use of the tourism product ratios and the tourism industry ratios in the calculation of tourism-related monetary and employment aggregates. Australia made the default assumption that the input requirements of tourism and non-tourism output are identical for an industry. While this is likely to be a more valid assumption for fine level industries where industry output is relatively homogenous (such as the taxi transport industry), there will be some instance where the assumption may be less valid. However, errors resulting from the use of assumptions will tend to offset in the calculation of the broad aggregates such as tourism value added and tourism GDP.

Australia used the following steps to calculate tourism value added:

- Identify which products in the economy are purchased by visitors;
- Derive an estimate of tourism consumption for each tourism product;
- Remove products taxes and subsidies, margins and imports from tourism consumption of each product at purchaser's prices to derive tourism consumption at basic prices;
- Determine what proportion of the domestic output of each product is consumed by visitors by dividing tourism consumption at basic prices into the total supply of each product at basic prices;
- Identify the industries which supply each of the tourism products to visitors;
- Apply the tourism product ratio to the output of each product by each industry to derive the tourism output of each industry;
- Estimate the intermediate consumption required to produce each industry's output of tourism products using relationships in the SU-tables;
- Calculate tourism gross value added at basic prices for each industry as tourism output less the intermediate consumption required to produce the tourism output, and sum for all industries in the economy; and
- Tourism GDP is derived by adding net taxes on tourism products to tourism gross value added at basic prices. Tourism GDP is directly comparable to GDP.

Estimates of the number of persons employed²² in tourism-related industries have been derived from the LFS. As the LFS is a household survey, it had some deficiencies when used to derive detailed industry estimates. The estimates of employment have been published at a more aggregated industry level.

Tourism accounted for \$32,6 billion or 3,7% of the total GDP in 2004/05, of which 'air and water passenger transport services' accounted for 13,7% of the total amount, followed by 'accommodation services' (11,8%), 'cafés, restaurants and take-away food outlets services' (10,0%) and 'other retail trade services' (8,8%).

²² 'Employed' includes number of employees and self-employed people but excludes employers.

Australian tourism consumption expenditure is divided into household and business/government consumption expenditure and was further subdivided into the length of stay (same-day visitor and overnight visitor (staying one or more nights at a location)). Domestic visitors contributed 76,0% of total tourism consumption in 2004/05 while international visitors' contribution was 24,0%. Of all domestic visitors, domestic households accounted for 85,0% of consumption and domestic business/government accounted for 15,0%. In 2004/05 tourism consumption expenditure grew by 2,3% due to an increase in international visitors consumption and domestic business/government consumption expenditure. Table V shows the ratios calculated from Australian domestic and inbound tourism expenditure in 2004/05.

	Own ratios calculated				
	Dom	estic	Inbound		
		Business/	Inbound		
Products	Household	government	visitors	All visitors	
Transportation	8,6	39,5	26,2	16,5	
Shopping	19,9	0,3	12,3	15,7	
Take-away and restaurant					
meals	19,1	6,2	7,3	14,7	
Accommodation	6,8	23,2	13,3	10,3	
Food products	9,5	0,6	7,4	7,9	
Fuel (petrol and diesel)	7,0	15,0	1,3	6,5	
Taxi products	0,4	2,9	0,7	0,7	
All other tourism products	28,7	12,3	31,5	27,7	
Total	100,0	100,0	100,0	100,0	

Table V: Australia Table 1 and Table 2 of the TSA – Tourism consumption expenditure by domestic and inbound visitors (%), 2004/05

Source: ABS – 2004/05 TSA

Table W shows tourism consumption expenditure ratios by outbound visitors calculated from Table 3 of the Australian TSA.

Table W: Australia Table 3 of the TSA – Outbound visitors, 2004/05

	Own
Tourism and to to	ratios
I ourism products	calculated
Overseas produced goods and services	16,3
Imports of tourism goods and services	83,7
Purchased by business	19,7
Purchased by household	64,0
Total consumption by Australian residents on	
outbound trips	100,0

Source: ABS - 2004/05 TSA

Table X shows the employment ratios calculated from Table 7 of the Australian TSA. In 2004/05, the majority of tourism employees were employed in the 'retail trade industry' (\pm 1 426 000 workers or 25,9%), followed by the 'accommodation industry' (\pm 962 000 workers or 17,5%) and 'cafés and restaurants industry' (\pm 510 000 workers or 9,3%).

	Own calculations
Tourism industry	ratios
Tourism-characteristic and connected	92,9
industries	
Travel agency and tour operator services	5,0
Road transport and motor vehicle hiring	4,5
Air and water transport	6,0
Accommodation	17,5
Cafés and restaurants	9,3
Clubs, pubs, taverns and bars	5,3
Rail transport	0,7
Casinos and other gambling services	0,3
Libraries, museums and arts	2,0
Other entertainment services	3,1
Education	4,5
All other industries	7,9
Total tourism employed persons	100,0

Table X: Australia Table 7 of the TSA – Employed people in tourism by industry, 2004/05

Source: ABS – 2004/05 TSA

3.6. Construction of the Philippine Tourism Satellite Account, 1994 and 1998

The National Statistical Board Council (NSBC) constructed the 1994 and 1998 TSA (and published it in 2001) for the Philippines according to the recommendations of the 1993 SNA. The Philippine TSA highlight the output of tourism industries, namely consumption expenditure of tourists, thereby providing insight into the relationship of supply and use of tourism goods and services. It also demonstrates the impact of tourism through physical indicators such as employment, tourist arrivals, length of stay, forms of accommodation and means of transportation. Tourism contributed 5,0% or (P 178,8 billion) of the total GDP in 2004/05. The Philippines uses a supply and use framework for the analysis of the tourism supply and demand.

The Philippines compiled Tables 1 and 2 of the TSA, but did not include the same day visitors and other components of visitor consumption such as final consumption expenditure in kind, tourism social transfers in kind other than individual non-market cultural services and tourism business expense. Due to a lack of data, Table 3 (outbound tourism) was not compiled. Tables 5 and 6 were also compiled. Table 7 was compiled but does not include information on the number of jobs and status of employment. Table 10 was also compiled but not with all suggested sub-tables.

In 1994, the size of the Philippine population was approximately 76,5 million with total households of 66,7 million.

3.6.1. Data sources

Data sources used for the compilation of the 1994 and 1998 TSA for the Philippines are as follows:

Supply side information:

- Input-output tables;
- Census of Establishments (CE);
- General Appropriations Act (GAA); and
- Annual Financial Reports of the General Government published by the Department of Budget and Management.

Demand side information:

- Department of Tourism (DOT): Occupancy Reports of Hotels;
- Annual Visitors Sample Survey (AVSS); and
- Sample Survey of Regional Travellers in Accommodation (SSRTA).

The following paragraphs give a brief description of each of these data sources.

Input-output tables

Philippine input-output tables provide the basis to establish the benchmark production account for tourism. The Philippines compiles input-output tables after every four years. Philippine input-output tables include 240 products and 240 industries.

Annual Visitors Sample Survey

The Department of Tourism conducts the AVSS monthly and releases results annually. The AVSS is a source of information on tourism indicators, characteristics and preferences of visitors in the Philippines, and of parameter estimates for measuring gross income derived from tourism. These serve as inputs to tourism development planning and policy formulation. The survey respondents were visitors departing from the Philippines from the Ninoy Aquino International Airport. A total of 6 088 respondents were interviewed from January to December 1993, based on a statistical selection of a week in a month and of flights per week. A profile of the visitors was as follows: 91,0% were foreign visitors (mostly Americans and Japanese) and 9,0% were overseas Filipinos, the average age was 40 years. Males comprised more than three-fourths of the foreign visitors, and about three-fifths were married. Almost two-thirds of foreign visitors were college graduates, of which the professionals/technical majority were workers. businessmen and managers/executives. The reported average annual gross income was US\$57,083. The average length of stay in the country was 12 nights. Shopping and sightseeing were the most common activities. Cebu was the most popular destination outside of Metro Manila. Average daily expenditures were US\$131,90

Sample Survey of Regional Travellers in Accommodation

The SSRTA is conducted after every three years by the DOT. The main purpose of this survey is to collect statistics on the extent, distribution and nature of travel within and among the different regions in the Philippines. The SSRTA measures accommodation facilities in terms of volume and variety, inventory of accommodation facilities and services and the profile of tourists specifically availing themselves of

accommodation services from commercial accommodation establishments in the key areas of the different regions in the country.

Census of Establishments (CE)

The CE is conducted by the National Statistics Office (NSO) and is a five-yearly survey. The CE covers all the establishments in the Philippines regardless of ownership type and economic organisation. This survey generates statistics that provide the basis for measuring economic growth and benchmark information pertaining to establishments.

General Appropriations Act

Statistics available from the GAA are used to generate parameters to be able to compile tourism collective consumption expenditure by function and level of government, and tourism gross fixed capital formation of the government by industry.

Annual Reports of the General Government published by the Department of Budget and Management

The Annual Financial Report of the General Government provides the data for the compilation of the collective consumption expenditure on tourism and gross fixed capital formation for the Philippine government at an aggregated level.

Department of Tourism Occupancy Report of Hotels

The DOT gathers statistics on the use of various accommodation establishments in Metro Manila through the Occupancy Reports. The establishments submit the report to the DOT by fax every month. Data on occupancy rates and number of rooms available for the tourists are being provided through this report. These data are disseminated by the DOT through its annual publication 'Statistical Report' and are used to compile Table 10 of TSA.

Tourism consumption expenditures by product were estimated based on data from the AVSS and SSRTA. Information on average daily expenditure, tourism consumption by product and average length of stay were also estimated from the above-mentioned surveys. Information regarding the number of arrivals for inbound visitors (TSA Table 10a) was generated from the SSRTA.

3.6.2. Ratios used and ratios calculated from the Philippine Tourism Satellite Account

The Philippines combined other tourism consumption expenditure due to the difficulty in collecting information on the availability of their services separately, and therefore this could have resulted in double counting. For example, hotels and restaurants were combined.

The 1994 and 1998 TSA visitor consumption expenditure was divided into households, and government consumption expenditure and the gross fixed capital formation.

Inbound and domestic tourism

Table Y shows the domestic and inbound ratios calculated from the Philippine TSA for the years 1994 and 1998. In 1998, inbound tourists spent the major part of their expenditure on 'accommodation services' (35,5%), followed by 'miscellaneous tourism' (21,7%) and 'food and beverage products' (20,2%). Domestic tourists spent most of their expenditure in 1998 on 'accommodation services' (48,7%), followed by 'food and beverage products' (22,1%) and 'miscellaneous tourism' (16,2%).

Table Y: Philippines Table 1 and Tab	e 2 of the TSA – Inbound and domestic
tourism ratios calculated (%	, 1994 and 1998

	Own calculations ratios					
	Year/type of visitors					
Tourism products and		1994			1998	
services	Inbound	Domestic	Total	Inbound	Domestic	Total
Accommodation	31,1	30,5	30,9	35,5	48,7	41,4
Food and beverage						
services	17,1	18,6	17,6	20,2	22,1	21,0
Passenger transport	3,5	7,9	4,8	5,1	4,6	4,8
Travel agencies, tour						
operator and tour guide						
services	0,3	6,0	2,1	0,4	3,6	2,1
Cultural services,						
recreation and other						
entertainment	21,8	8,3	17,8	17,1	4,8	11,5
Miscellaneous tourism	26,2	28,7	26,8	21,7	16,2	19,2
Tourism-related products	0,0	0,0	0,0	0,0	0,0	0,0
Total	100,0	100,0	100,0	100,0	100,0	100,0

Source: NSBC - 1994/98 TSA

Production account

Table Z shows the ratios calculated from the Philippine production account (Table 5). The data used to compile the production account were derived from the input-output tables.

Table Z: Philippines Table 5 of the TSA – Produc	ction Account of the tourism
industries and non-tourism industries ((%), 1994

	1994	1998
	Own	Own
	calculations	calculations
Tourism products	ratios	ratios
Tourism-connected products		
Characteristics products and services		
Accommodation services	0,4	0,3
Food and beverage services	2,1	1,5
Passenger transport services	3,0	2,0
Travel agency, tour operator and tour guide		
services	0,1	0,0
Transport equipment rental	0,1	0,0
Cultural services, recreation and other		
entertainment	0,9	0,7
Shopping	0,2	0,1
Tourism-related services	21,6	27,3
Non-tourism-related services	71,6	68,1
Total output at current producers' prices	100,0	100,0
Agriculture, forestry and fishing	17,5	14,1
Mining	4,1	3,4
Electricity and water	4,6	5,4
Manufacturing	46,4	45,8
Construction	1,2	1,4
Trade service, hotels and restaurants	7,5	8,1
Transport and communication	7,2	8,1
Business services	9,1	10,8
Community, social and personal services	2,4	2,9
Total intermediate consumption	100,0	100,0
Compensation of employees	31,7	33,9
Other taxes less subsidies on production	5,4	5,4
Depreciation	8,8	7,2
Gross operating surplus	54,1	53,5
Total gross value added of activities at		
basic prices	100,0	100,0

Source: NSBC - 1994/98 TSA

Tourism employment

Employment generated by tourism industries was sourced from the LFS. However, the disaggregation by type of tourism activities was not obtained directly from LFS. The Philippines used the CE to disaggregate passenger transport (i.e. air, water and land), and recreation, entertainment and cultural services.

The Philippines, when monitoring employment in the tourism industries, took into account seasonality, high variability in the working conditions, flexibility, and lack of formality of many work contracts in many small producing units. Employment generated by the tourism industries was estimated to be 20,0% to 22,0% of total employment in 1994/1998. Table AA shows the ratios calculated from Table 7 of the Philippine TSA. Of the total employees that were employed in the Philippine tourism industries in 1998, 64,7% were employed in the retail trade industry, passenger transport (21,9%) and restaurant and bar industries (8,5%).

	Nur	nber of	Number of e		employees			
Tourism	estab	lishments		1994			1998	
industries	1994	1998	Male	Female	Total	Male	Female	Total
Accommodation	0,9	5,0	1,2	0,8	1,0	1,1	0,7	0,9
Restaurants and								
bars	21,0	61,2	8,0	7,3	7,7	8,6	8,2	8,5
Passenger								
transportation	1,1	4,7	32,8	5,6	20,7	34,4	5,9	21,9
Travel agents, tour								
operators and tour								
guides	0,0	0,0	0,1	0,0	0,1	0,1	0,1	0,2
Recreation,								
entertainment and								
cultural services	5,7	29,1	4,7	2,5	3,7	4,7	2,6	3,8
Retail trade	71,3	0,0	53,2	83,8	66,8	51,1	82,5	64,7
Total tourism								
industries	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0

Table AA: Philippines Table 7 of the TSA – Employment generated by the tourism industries (own calculations ratios (%)), 1994/1998

Source: NSBC - 1994/98 TSA

Non-monetary tourism

The Philippines compiled three sub-tables of non-monetary indicators. The first one is the number of visitor arrivals (Table 10a), the second the length of stay in the Philippines by inbound visitors (Table 10b) and the third means of transportation (Table 10c). The Philippines used these indicators to firm up and validate the result of 1994 and 1998 TSA estimates by providing certain attributions of the performance of tourism industries in relation to the development in the total economy.

The information to calculate TSA sub-table 10a was derived from the DOT Statistical Reports. A domestic visitor's information was derived from the SSRTA. The data on the number of inbound visitors by type of transportation used (TSA sub-table 10c) were readily available from the publications of the DOT.

The inbound arrivals by country of origin are one of the non-monetary tables (Table 10) compiled by the Philippines. Tables AB and AC show the ratios calculated from Table 10 of the Philippine TSA for 1998.

	1994	1998
	Own ratios	Own ratios
Country of origin	calculated	calculated
Inbound visitors	100,0	100,0
Asia	48,2	46,6
America	22,3	25,2
Europe	13,1	14,3
Oceania	5,1	4,5
Africa	0,2	0,1
Others and unspecified		
residents	1,0	1,1
Overseas Filipinos	10,1	8,2
Domestic visitors		
National capital region	23,1	13,2
Cordillera administrative region	8,2	13,7
liocos region	4,9	4,7
Cagayan	5,5	5,1
Central Luzon	1,5	6,2
Southern Tagalog	3,9	3,3
Bicol	3,9	4,5
Western Visayas	8,0	4,8
Central Visayas	9,7	8,6
Eastern Visayas	2,8	2,3
Western Mindanao	5,7	4,1
Northern Mindanao	11,6	11,0
Southern Mindanao	7,1	8,8
Central Mindanao	4,1	3,8
Eastern Mindanao	0,0	1,2
Caraga	0,0	4,7
Grand Total	100,0	100,0

Table AB: Philippines Table 10a of the TSA – Tourist arrivals (%), 1994 and 1998

Source: NSBC - 1994/98 TSA

Table AC: Philippines Table 10,b of the TSA – Inbound tourist arrivals (%), 1994 and 1998

	1994		1998			
Country of origin	Number of visitors (ratios calculated)	Average night (ratios given)	Number of visitors (ratios calculated)	Average night (ratios given)		
Asia	46,6	9,9	44,7	7,8		
America	22,2	13,4	24,9	13,9		
Europe	11,6	12,9	12,9	10,6		
Oceania	5,0	12,9	4,4	8,8		
Africa	0,0	0,0	0,0			
Others and unspecified residents	4.5	10.6	4 9	7.6		
Overseas Filipinos	10,1	23,9	8,2	19,6		
Total inbound	100,0	11,5	100,0	9,1		

Source: NSBC - 1994/98 TSA

3.7. Construction of the Scottish Tourism Satellite Account, 2000

The University of Strathclyde compiled the 2000 TSA (which was published in 2004) for Scotland according to the recommendations of the UNWTO. They compiled Tables 1–4 and Tables 6–7 of the TSA. Tables 8–10 have not yet been compiled. Tables 1 and 2 are divided into 'same-day visitors', 'holiday visitors', 'business visitors' and 'visiting friends and relatives'. Table 6 was compiled by using the input-output framework. Table 7 is divided into gender, and full-time and part-time employees. Tourism contributed 5,0% or (\pounds 7,4 billion) of the total GDP in 2000.

In 2000, the size of the Scottish population was approximately 5,1 million with total households of 2,3 million.

3.7.1. Main data source

Scotland relied heavily on the use of UK data sources for calculating the Scottish estimates. The UK collected separate data on spending in Scotland.

The data sources used were:

Supply side information:

- Input-output tables; and
- Labour Force Survey.

Demand side information:

- UK Day Visits Survey;
- Scottish Household Survey;
- UK Tourism Survey (UKTS) 2000–2002;
- International Passenger Survey (IPS) 2001, 1997 expenditure trailer; and
- Expenditure and Food Survey.

The following paragraphs give a brief description of each of these data sources.

UK Tourism Survey (2000–2002)

The National Tourist Board carry out a survey of trips undertaken by UK residents. The UKTS is an annual survey with a sample size of 50 000 households. This survey covers all trips away from home lasting one night or more for holidays, visits to friends and relatives, business, conferences or any other purpose except trips such as hospital admissions or school visits. The main results are the number of trips taken, expenditure, and nights spent away from home. Data are also available on leisure activities undertaken during the trip, methods of booking or arranging travel, and types of location stayed at. The survey covers the UK and data are available for England, Scotland, Wales, Northern Ireland and at regional level. The survey is carried out continuously, and results are published annually.

International Passenger Survey 2001, 1997 expenditure trailer

The IPS is an annual survey conducted by the UK ONS. This survey is a random sample of passengers entering and leaving Scotland by air, sea or the Channel Tunnel. Over a quarter of a million face-to-face interviews are carried out each year with passengers entering and leaving Scotland through the main airports, seaports and the Channel Tunnel. The data collected include country of visit (for Scotland residents), country of residence and region of Scotland visited (for overseas residents), expenditure, purpose of visit, length of stay, age group, gender, mode of transport, port, and year and quarter of visit.

Expenditure and Food Survey

The EFS is commissioned by the Social Survey Division (SSD) of ONS and by the Department for Environment, Food and Rural Affairs (DEFRA). It is a continuous survey of household expenditure, food consumption and income. The primary uses are to provide information about spending patterns for the Retail Price Index, and about food consumption and nutrition. Data are collected for a sample of households in Scotland, using self-reported diaries of all purchases over a two-week period, including food eaten out. Where possible, quantities are recorded in the diaries but otherwise estimated. Energy and nutrient intakes are calculated using standard profiles for each of some 500 types of food.

UK Day Visits Survey

The UK Day Visits Survey is a household survey that runs every second year to ask questions about leisure day visits from home. The target population is residents from England, Scotland and Wales and the sample is around 7 000 households.

Scottish Household Survey

The Scottish Household Survey is an annual survey covering the whole of Scotland, with a sample size of around 15 000 households per annum. The survey covers a range of topics, but focuses particularly on transport, local government services and social exclusion topics. The survey will be continuous, with interviews taking place each month. Summary results are published quarterly, and more detailed results annually²³.

Input-output tables

The ONS compiles Scottish input-output tables on an annual basis. The Scottish input-output tables are products by industries and consist of 91 products and 91 industries.

Labour Force Survey

The LFS is a quarterly sample survey of households living at private addresses in Great Britain with a sample size of 23 000. Its purpose is to provide information on the Scottish labour market that can then be used to develop, manage, evaluate and report on labour market policies. The questionnaire design, sample selection, and interviewing are carried out by the Social and Vital Statistics Division of the ONS.

²³ www.statistics.gov.uk/STATBASE

3.7.2. Ratios used and ratios calculated from the Scottish Tourism Satellite Account

Scotland split their consumption expenditure to fit into input-output products by industries categories. For example, the holiday tourists from the rest of the UK spent a total of £3,8 million in 2001 on 'glassware, tableware and household utensils products'. This category spans a number of input-output categories and was split as shown in Table AD. 'Accommodation products' is divided into 'hotels, catering and pubs products' (60,0%), 'letting of dwellings products' (30,0%) and 'estate agent activities products' (10,0%).

Table AD: Assumptions made to spli	t expenditure categories to fit input-output
categories (%), 2001	-

Spending categories	Input-output categories (products)	Tourism ratios on products given
Accommodation	Hotels, catering, pubs, etc.	60,0
	Letting of dwellings	30,0
	Estate agent activities	10,0
Clothes	Knitted goods	20,0
	Wearing apparel	80,0
Fish and fish products	Sea fishing	40,0
	Fish and fruit processing	60,0
Glassware, tableware and household	Glass and glass products	40,0
utensils	Ceramic goods	40,0
	Cutlery and tools	20,0

Source: University of Strathclyde, 2001 TSA

Visitor consumption

Scottish visitor consumption expenditure is divided into visitor final consumption in cash, visitor final consumption in kind, tourism social transfers in kind, and tourism business expenses. The Scottish made assumptions on the visitor final consumption in cash. The Scottish did not make assumptions on the visitor final consumption in kind, tourism business expenses and tourism social transfer in kind.

Visitor final consumption in cash

Scotland made the assumption that all tourism expenditure by Scottish residents will be subsumed in final household consumption, expenditure by visitors from the rest of the UK will appear as a category of interregional exports, and expenditure by overseas visitors will appear as international exports.

Scotland also made the assumption that all pre- and post-trip expenditure should be included as visitor final consumption. Pre-trip items could be maps, books, films, clothes and gear acquired for the trip, inoculations, travel agency type service, etc. Post-trip expenditure includes film processing, dry-cleaning, etc.

Assumptions were also made on hotel and restaurant products produced by hotel and restaurant industries. The industry splits of hotels and restaurants, travel agents from transport services and visitor attractions from recreation were created using turnover on the Scottish Inter-departmental Business Register for the relevant SIC (see Table AE). Table AD shows that the hotel industry is made up of 'hotel accommodation services' (65,0%), 'meals products' (20,0%) and 'drinks products' (15,0%). The 'restaurant industry' is made up of 'meals products' (80,0%) and 'drinks products' (20,0%).

	Tourism ratios on products given							
		Indu	stry					
		Other	Restaurants					
Products	Hotel output	accommodation	output	Bars output				
Hotel								
accommodation	65,0	0,0	0,0	0,0				
Other								
accommodation	0,0	95,0	0,0	0,0				
Meals	20,0	5,0	80,0	25,0				
Drinks	15,0	0,0	20,0	75,0				
Total	100,0	100,0	100,0	100,0				

Table AE: Ratios used to break down supply of hotels and restaurants (%),2001

Source: University of Strathclyde, 2001 TSA

Table AF shows the ratios calculated from Table 1 of the Scottish TSA. The estimates of inbound tourism consumption have been reconciled with supply of products using the input-output balancing process. Inbound tourism consumption consists of expenditure of visitors from the rest of the UK and overseas within Scotland and totalled £2,8 billion or 37,8% of the total tourism expenditure. Of this, 60,0% was on 'tourism-specific or related products'.

	Own ratios calculated						
			Visiting friends				
	Holiday	Business	and				
Tourism products	visitors	visitors	relatives	All visitors			
Accommodation	17,0	26,0	9,7	16,6			
Restaurant, bar and catering							
services	19,0	21,3	15,5	18,7			
Transportation	3,0	3,7	5,4	3,5			
Travel agency and tour operator							
services	0,0	0,7	0,6	0,9			
Recreation, cultural and other							
entertainment services	9,0	4,3	4,7	7,4			
Tourism-connected products	12,0	15,0	12,6	12,8			
Non-tourism products	29,0	21,0	37,3	28,9			
Distribution margin	11,0	8,0	14,2	11,2			
Total	100,0	100,0	100,0	100,0			

Table AF: Scotland Table 1 of the TSA – Inbound tourism ratios (%), 2001

Source: University of Strathclyde, 2001 TSA

Table AG shows the ratios calculated from Table 2 of the Scottish TSA. Domestic tourism is divided into holiday visitors, business visitors and visiting friends and relatives within Scotland. Domestic tourists in Scotland spent most of their expenditure on 'non-tourism products' (27,8%), followed by 'restaurant, bar and catering products' (23,2%) and 'tourism-connected products' (13,3%).

Table AG: Scotland	Table 2 of the	TSA – Domestic	tourism ratios	; (%), 2001
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	Own ratios calculated								
		_	Visiting friends						
Tourism products	Holiday	Business visitors	and relatives	All visitors					
Accommodation	15,8	18,5	15,7	5,6					
Restaurant, bar and catering									
services	17,3	19,2	6,6	23,2					
Transportation	6,0	21,5	14,9	5,1					
Travel agency and tour operator									
services	1,1	1,1	17,1	0,9					
Recreation, cultural and other									
entertainment services	13,7	6,9	1,3	13,0					
Tourism-connected products	14,3	20,7	21,6	13,3					
Non-tourism products	24,0	7,6	15,8	27,8					
Distribution margin	7,8	4,5	7,0	11,1					
Total	100,0	100,0	100,0	100,0					

Source: University of Strathclyde, 2001 TSA

Table AH shows the ratios calculated from Table 3 of the Scottish TSA. Outbound tourism covers purchases of package tours, expenditure on getting to the border or the airport, and any meals eaten or hotels stayed in on the way. Outbound tourists spent the major part of their expenditure on 'restaurant, bar and catering services' (31,4%), 'accommodation services' (15,4%) and 'non-tourism products' (15,2%).

Table AH: Scotland Table 3 of the TSA – Outbound tourism ratios (%), 2001

	Own ratios
Tourism Products	calculated
Accommodation services	15,4
Restaurant, bar and catering services	31,4
Passenger transport services	9,7
Travel agency and tour operator services	0,6
Recreation, cultural and other entertainment	
services	10,4
Tourism-connected products	9,6
Non-tourism products	15,2
Distribution margins	7,7
Total	100,0

Source: University of Strathclyde, 2001 TSA

Table AI shows tourism employment by industry, gender, full-time and part-time employees. In 2000 the majority of female employees (65,0%) were employed in the 'Travel agency and tour operator industry'. Of the total employees employed in the 'Travel agency and tour operator industry', 81,0% were employed as full-time employees and only 19,0% employed as part-time employees.

Tourism ratios on employment given									
	All employment by industry				Tourism employment				Tourism
									employ-
			Part-	Full-			Part-	Full-	ment
Tourism product	Female	Male	time	time	Female	Male	time	time	ratio
Accommodation									
services	48,0	52,0	39,0	61,0	59,0	41,0	48,0	42,0	31,0
Restaurant, bar and									
catering services	61,0	39,0	57,0	43,0	61,0	39,0	56,0	44,0	45,0
Passenger transport	17,0	83,0	11,0	89,0	15,0	85,0	10,0	90,0	3,0
Travel agency and									
tour operator									
services	65,0	35,0	19,0	81,0	65,0	35,0	19,0	81,00	76,0
Recreation, cultural									
and other									
entertainment									
services	49,0	51,0	41,0	51,0	49,0	41,0	59,0	21,0	0,0
Tourism-connected									
industries	32,0	68,0	19,0	81,0	34,0	66,0	18,0	82,0	6,0
Non-tourism									
industries	49,0	51,0	28,0	72,0	55,0	45,0	44,0	56,0	1,0
Total	48.0	52.0	30.0	70.0	58.0	42.0	47.0	43.0	5.0

Table AI: Scotland Table 7 of the TSA – Total employment by industry and tourism-related employment (%), 2001

Source: University of Strathclyde, 2001 TSA

Tables AJ–AO show a summary of the seven countries in the compilation of their TSA.

					Australia:	Philippines: 1994	
Tourism categories	UK: 2000	NZ: 2004	Canada: 2000	Austria: 1999	2004/05	& 1998	Scotland: 2000
Publication year	Compiled for	Compiled for	Compiled for	Compiled for	Compiled for	Compiled for 1994	Compiled for
	2000 and	2004 and	2000 and	1999 and	2004/05 and	and 1998 and	2000 and
	published in	published in	published in	published in	published in	published in 2001	published in
	2004	2005	2005	2001	2006		2004
Tourism contribution	Tourism	Tourism	Tourism	ATS contributed	Tourism	Tourism	Tourism
to GDP	contributed £89,6	contributed \$6,2	contributed	194,4 billion or	contributed	contributed P-85,9	contributed £7,4
	billion or 4,0% of	billion or 4,9% of	\$53,7 billion or	7,2% of the total	\$32,6 billion or	billion or 5,0% in	billion or 5,0% of
	GDP in 2000	the total GDP in	2,2% of the total	GDP in 1999	3,7% of the total	1994 and P 178,8	the total GDP
		2004	GDP in 2000		GDP in 2003/04	billion or 7,0% in	
						1998	
Total number of	Population is	Population is 4,2	Population is	Population is 8,1	Population is	Population is 76,5	Population is 5,1
population and	59,6 million and	million and 1,3	30,0 million and	million and 4,4	20,7 million and	million and 66,7	million and 2,3
households	14,3 million	million	11,5 million	million	4,4 million	million households	million
	households	households	households	households	households		households
LFS	Quarterly survey	Quarterly survey	Monthly survey		Monthly survey		Quarterly survey
SU-tables	Compiled				Compiled		
	annually for 123				quarterly for 33		
	products and 123				products and 33		
	industries				industries and		
					annually for 225		
					products and 53		
					industries		
Input-output tables		Compiled	Compiled			Compiled after	Compiled
		annually for 210	annually for 727			every five years	annually for 91
		products and	products and				products and 91
		126 industries	300 industries				industries
IVS		Quarterly survey			Quarterly survey		
Household Survey				Quarterly survey			Annual survey
SEPH			Monthly survey				

Table AJ: Comparison of the Tourism Satellite Accounts in seven countries²⁴

²⁴ An empty space indicates that no data are applicable to that country.

Table AJ: Com	parison of the	Tourism Satellite	Accounts in seven	countries	(continued)
				oountinoo	(oonunaca)

Tourism categories	LIK: 2000	NZ: 2004	Capada: 2000	Austria: 1999	Australia:	Philippines: 1994	Scotland: 2000
	UK. 2000	INZ. 2004	Callaua. 2000	Austria. 1999	2004/05	Gt 1990	Scotlanu. 2000
Services moustry Survey					interval survey		
DTS		Quartarly auryov			interval survey		
		Quarterly survey					
QES Datail and Trada Ourses		Quarterly survey					
Retail and Trade Survey		Monthly survey					
Accommodation Survey		Monthly survey					
Expenditure and Food	Annual survey						Annual survey
Survey							2 //
Expenditure and Food	Annual survey						Continuous
Survey				<u> </u>			survey
Economic Census of				Annual survey		Five years interval	
Industry						survey	
SSRTA						Five years interval	
						survey	
Annual Visitor Sample						Annual survey	
Survey							
DOT Occupancy Reports of						Annual report	
Hotels							
National Visitors Survey					Quarterly survey		
Household Expenditure					Five years		
Survey					interval survey		
Economic Activity Survey					Annual survey		
Overseas Arrivals and					Annual survey		
Departures Survey							
Tourism Research					Annual survey		
Australian Survey							
Census of Establishments						Five years interval	
						survey	
IPS	Compiled						Annual survey
	annually and is						
	a face-to-face						
	interview						

Tourism categories	UK: 2000	NZ: 2004	Canada: 2000	Austria: 1999	Australia: 2004/05	Philippines: 1994 & 1998	Scotland: 2000
Austrian Guest Inquiry				Three-year-			
Survey				interval survey			
Quarterly Survey on				Quarterly survey			
Holiday and Business							
Trips							
UK Occupancy Survey	Annual						
	survey						
UKTS	Annual						Annual survey
	survey						
Canadian Travel Survey			Quarterly survey				
Annual Business Inquiry	Annual						
	survey						
Great Britain Day Visits	Quarterly						
Survey	survey						
HES		Annual survey					
Annual Enterprise Survey		Annual survey					
ITS			Annual survey				
Table 1	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Table 2	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Table 3	Yes	Yes	Yes	No	No	No	Yes
Table 4	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Table 5	Yes	Yes	No	No	No	Yes	No
Table 6	Yes	Yes	No	No	No	Yes	Yes
Table 7	No	Yes	Yes	No	Yes	No	Yes
Table 8	No	No	No	No	No	No	No
Table 9	No	No	No	No	No	No	No
Table 10	Yes	No	No	No	No	Yes	No
Framework used for		Compiled TSA		Used input-	Compiled TSA	Used supply and	
compilation of TSA		on an input-		output model to	on a SU-tables	use framework for	
		output framework		measure impact	framework	analysis of TSA	
				of tourism			

Table AJ: Comparison of the Tourism Satellite Accounts in seven countries (continued)

Table AJ: Comparison of the Tourism Satellite Accounts in seven countries (continue)

				Austria:		Philippines: 1994	
Tourism categories	UK: 2000	NZ: 2004	Canada: 2000	1999	Australia: 2004/05	& 1998	Scotland: 2000
Target population	All residents	All residents	All residents and	All residents	All residents and	All residents and	All residents and
	and	and	international	and	international visitors.	international	international
	international	international	visitors excluding	international	Overseas departure and	visitors	visitors excluding
	visitors	visitors	people who are	visitors	arrivals survey exclude		diplomats and
	excluding	excluding	travelling for		the movements of		armed forces
	diplomats and	people	education		operational air and		
	armed forces	specifically to	purposes, armed		ships' crew, transit		
		obtain medical	force, diplomats,		passengers who pass		
		treatment	commuting as		through Australia but		
			well as migration		are not cleared for entry		
					and passengers on		
					pleasure cruises		
					commencing and		
					Tinisning in Australia		
					aboard ships not then		
					engaged on regular		
Definition yourd	No definition of	10 kilomotroo	90 kilomotroo	No definition	voyages.	No definition of	No definition of
		40 KIIOITIELIES			40 kilometros round		
environment	usuai	one way	One way	onvironmont	and 50 kilometres found		usuai
Samo day visitors	Data from day	No data for	No data for samo	Mado	Data for same day	No data for samo	Data from day
Same-day visitors	visitors como	somo dov	day visitors		visitors como from	day visitors	visitors como
	from the LIK	visitors	uay visitors	that same	national visitors survey	uay visitors	from the LIK day
	day visite	VI511015		day visitor			visite Survey
	Survey			does not use			
	Ourvey			the travel			
				agencies			
				tour			
				operators			
				and tourist			
				quides			
				services.			

						Philippines: 1994	
Tourism categories	UK: 2000	NZ: 2004	Canada: 2000	Austria: 1999	Australia: 2004/05	& 1998	Scotland: 2000
Tourism-connected	Miscellaneous	Product has	Recreation and	Products which are	Products consumed by	Construction,	Restaurants,
products	services, travel	tourism ratio	entertainment,	consumed by	tourists but not	article made of	air/sea transport
	agencies	greater than	travel agency	visitors in volumes	considered tourism-	native material,	
		0,0% and less	services and	significant to the	characteristic products	communication	
		than 0,25%	pre-trip	visitor and/or the		services, banking	
			expenses	provider but which		services, private	
				are not included in		services and	
				the list of tourism		wholesale trade	
				characteristics		services	
Non-tourism products	Groceries,	Products that	Some products	All products which	Communication services,		Groceries,
	alcoholic	are not	and services	are not tourism-	electricity, gas, water		alcoholic
	beverages from	purchased by	bought by	specific	and personal services		beverages from
	stores, motor	tourists	tourists.				stores, motor
	vehicle parts and		Groceries,				vehicle parts and
	repairs, motor		souvenirs, local				repairs, motor
	vehicle fuel and		public				vehicle fuel and
	toiletries, parking,		transportation,				toiletries, parking
	and alcoholic		parking and				and alcoholic
	beverages		alcoholic				beverages
	purchased at		beverages				purchased at
	retail		purchased at				retail
			retail				

Table AJ: Comparison of the Tourism Satellite Accounts in seven countries (continued)

Tourism categories	UK: 2000	NZ: 2004	Canada: 2000	Austria: 1999	Australia: 2004/05	Philippines: 1994 & 1998	Scotland: 2000
ВоР		Provides data to determine expenditure on airfares using transportation credits data Provides estimates for course costs and living costs per foreign student		Treats students and medical patients as travellers, regardless of the length of stay Military and embassy personnel and non-resident workers are not		<u>u 1000</u>	Expenditure by UK residents appears in BoP as interregional exports while expenditure by other overseas visitors appears in BoP to be international exports
				regarded as travellers			
Estimates of the number of persons employed	Estimates of the number of employees are derived from LES and ABI	Estimates of the number of employees are derived from LFS and QES	Estimates of the number of employees are derived from LFS		Estimates of the number of employees are derived from LFS		Estimates of the number of employees are derived from LFS

Table AJ: Comparisons of the Tourism Satellite Accounts in seven countries (concluded)

Total

Tourism products			Ratios calcul	ated from	TSA Table 1	of different countri	es ²⁵		
-	UK: 2000	NZ: 2004	Canada: 2000	Austri	ia: 1999	Australia: 2004/05	Philippin & 1	ies: 1994 998	Scotland: 2000 ²⁶
				Day visits	Overnight visits		1994	1998	
Accommodation services	28,0	9,0	24,0	0,0	26,0	13,3	31,1	35,5	16,6
Food and beverage									
services	0,0	11,4	17,0	72,0	44,0	7,4	17,1	20,2	0,0
Restaurant, bar and catering services	25,0	0,0	0,0	0,0	0,0	7,3	0,0	0,0	18,7
Passenger transport									
services	4,0	10,9	27,0	8,0	14,0	26,2	3,5	5,1	3,5
Air passenger transport	0,0	18,9	0,0	0,0	0,0	0,0	0,0	0,0	0,0
Retail sales fuel and other automotive	0,0	8,2	0,0	0,0	0,0	1,3	0,0	0,0	0,0
Travel agency and tour operator services	0.0	0.0	0.0	0.0	2.0	0.0	0.3	0.4	0.9
Recreation, cultural and other entertainment			· · · ·				,	,	,
services	2,0	0,0	0,0	20,0	14,0	0,0	21,8	17,1	7,4
Tourism-connected products	7,0	11,9	13,0	0,0	0,0	31,5	0,0	0,0	12,8
Non-tourism products	19,0	0,0	19,0	0,0	0,0	0,0	0,0	0,0	28,9
Retail	15,0	22,3	0,0	0,0	0,0	0,0	0,0	0,0	
Distribution margins	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	11,2
Taxi products	0,0	0,0	0,0	0,0	0,0	0,7	0,0	0,0	0,0
Miscellaneous tourism	0,0	0,0	0,0	0,0	0,0	0,0	26,2	21,7	0,0
Shopping	0,0	0,0	0,0	0,0,	0,0	12,3	0,0	0,0	0,0
GTS	0,0	7,4	0,0	0,0	0,0	0,0	0,0	0,0	0,0

100,0

100,0

100,0

100,0

100,0

100,0

100,0

Table AK: Table 1 of the TSA – Inbound tourism ratios of seven countries

100,0

100,0

 ²⁵ 0,0 means there are no data for the country to populate their table/s.
 ²⁶ Scottish inbound tourism is divided into holiday visitors, business visitors and visiting friends and relatives. Data for this can be found in Table AG.

Tourism products	Ratios calculated from TSA Table 1 of different countries ²⁷											
	UK: 20	00		NZ: 2004	Canada: 2000	Austria:	1999	Australia: 20	04/05	Philipp 1994&	ines: 1998	Scotland: 2000
	Over night visits	Day visits	Total			Day visits	Overnight visits	Households	Government/ business	1994	1998	
Accommodation services	21,5	0,0	7,7	6,4	11,0	0,0	47,0	6,8	23,2	30,5	48,7	5,6
Food and beverage services	0,0	0,0		10,6	14,0	72,0	27,0	9,5	0,6	18,6	22,1	0,0
Restaurant, bar and catering services	27,9	23,9	20,5	0,0	0,0	0,0	0,0	19,1	6,2	0,0	0,0	23,2
Passenger transport services	14,5	2,3	24,0	6,1	42,0	8,0	13,0	8,6	39,5	7,9	4,6	5,1
Air passenger transport	0,0	0,0		9,5	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
Travel agency and tour operator services	0,5	0,4	2,8	0,0	0,0	0,0	11,0	0,0	0,0	6,0	3,6	0,9
Recreation, cultural and other entertainment services	7,2	9,6	6,9	0,0	0,0	20,0	2,0	0,0	0,0	8,3	4,8	0,0
Miscellaneous tourism services	2,5	2,5	2,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	13,0
Retail	10,3	26,6	0,0	37,7		0,0	0,0	0,0	0,0	0,0	0,0	
Retail sales fuel and other automotive	0,0	0,0	15,3	16,1	0,0	0,0	0,0	7,0	15,0	0,0	0,0	0,0
Tourism-connected products	0,0	0,0		13,6	18,0	0,0	0,0	28,7	12,3	28,7	16,2	13,3
Non-tourism products	15,6	34,7	20,8	0,0	15,0	0,0	0,0	0,0	0,0	0,0	0,0	27,8
Taxi products	0,0	0,0		0,0	0,0	0,0	0,0	0,4	2,9	0,0	0,0	0,0
Distribution margins	0,0	0,0		0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	11,1
Shopping	0,0	0,0		0,0	0,0	0,0	0,0	19,9	0,3	0,0	0,0	0,0
GTS	0,0	0,0		0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
Total	100,0	100,0	100,1	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0

Table AL: Table 2 of the TSA – Domestic tourism ratios of seven countries

²⁷ 0,0 means there are no data for the country to populate their tables.

Ratios calculated from TSA Table 3 of different countries												
Tourism products	UK: 2000	NZ: 2004	Canada: 2000	Austria: 1999	Australia: 2004/05	Philippines: 1994 & 1998	Scotland: 2000					
Accommodation services	25,9	12,8	30,0	0,0	0,0	0,0	15,4					
Food and beverage services	0,0	16,7	19,0	0,0	0,0	0,0	0,0					
Restaurant, bar and catering												
services	29,0	0,0	0,0	0,0	0,0	0,0	31,4					
Passenger transport services	7,5	10,2	31,0	0,0	0,0	0,0	9,7					
Air passenger transport	0,0	25,2	0,0	0,0	0,0	0,0	0,0					
Travel agency and tour												
operator services	0,3	0,0	0,0	0,0	0,0	0,0	0,6					
Recreation, cultural and other												
entertainment services	13,2	0,0	0,0	0,0	0,0	0,0	10,4					
Retail	0,0	2,6	0,0	0,0	0,0	0,0	0,0					
Retail sales fuel and other												
automotive	0,0	18,1	0,0	0,0	0,0	0,0	0,0					
Tourism-connected products	2,1	14,4	9,0	0,0	0,0	0,0	9,6					
Non-tourism products	12,9	0,0	11,0	0,0	0,0	0,0	15,2					
Retail	0,0	0,0	0,0	0,0	0,0	0,0	0,0					
Distribution margins	9,1	0,0	0,0	0,0	0,0	0,0	7,7					
Exports of goods and services	0,0	0,0	0,0	0,0	16,3	0,0	0,0					
Imports of goods and services	0,0	0,0	0,0	0,0	83,7	0,0	0,0					
Total	100,0	100,0	100,0	100,0	100,0	100,0	100,0					

Table AM: Table 3 of the TSA – Outbound ratios of seven countries

Ratios calculated from TSA Table 5 of different countries											
Tourism products	UK: 2000	NZ: 2004	Canada: 2000	Austria: 1999	Australia:	Philippir	nes: 1994	Scotland:			
					2004/05	& 1	998	2000			
						1994	1998				
Accommodation services	5,7	9,7	0,0	45,9	0,0	0,4	0,3	0,0			
Food and beverage services	0,0	12,3	0,0	0,0	0,0	2,1	1,5	0,0			
Restaurant, bar and catering											
services	15,9	0,0	0,0	0,0	0,0	0,0	0,0	0,0			
Passenger transport services	44,6	11,8	0,0	29,8	0,0	3,0	2,0	0,0			
Air passenger transport	0,0	20,4	0,0	0,0	0,0	0,0	0,0	0,0			
Travel agency and tour											
operator services	0,9	0,0	0,0	9,9	0,0	0,1	0,0	0,0			
Transport equipment rental	0,0	0,0	0,0		0,0	0,1	0,0	0,0			
Recreation, cultural and other											
entertainment services	20,0	0,0	0,0	5,6	0,0	0,9	0,7	0,0			
Retail	0,0	24,1	0,0	0,0	0,0	0,0	0,0	0,0			
Retail sales fuel and other											
automotive	0,0	8,9	0,0	0,0	0,0	0,0	0,0	0,0			
Tourism-connected products	7,8	12,8	0,0	0,0	0,0	21,6	27,3	0,0			
Non-tourism products	4,9	0,0	0,0	2,2	0,0	71,6	68,1	0,0			
Shopping	0,0	0,0	0,0	0,0	0,0	0,2	0,1	0,0			
Distribution margins	0,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0			
Total	100,0	100,0	0,0	100,0	0,0	100,0	100,0	,00			

Total

Tourism products		Own ra	tios calculated fr	om Table 7 of the 1	SA (%)			Assumption
	UK: 2000	NZ ²⁸ : 2004	Canada: 2000	Austria: 1999	Australia: 2004/05	Philippines & 199	s: 1994 8	Scotland: 2000
						1994	1998	
Accommodation services	0,0	0,0	26,1	0,0	17,5	0,9	5,0	31,0
Food and beverage services	0,0	0,0	23,5	0,0	0,0	0,0	0,0	0,0
Restaurant, bar and catering								
services	0,0	0,0	0,0	0,0	9,3	21,0	61,2	45,0
Passenger transport services	0,0	0,0	14,0	0,0	4,5	1,1	4,7	3,0
Air passenger transport	0,0	0,0	0,0	0,0	6,0	0,0	0,0	0,0
Rail passenger transport	0,0	0,0	0,0	0,0	0,7	0,0	0,0	0,0
Travel agency and tour	0.0			0.0	5.0		0.0	70.0
operator services	0,0	0,0	0,0	0,0	5,0	0,0	0,0	76,0
Recreation, cultural and other							00.4	
entertainment services	0,0	0,0	0,0	0,0	0,0	5,7	29,1	0,0
Retail	0,0	0,0	0,0	0,0	25,9	71,3	0,0	0,0
Retail sales fuel and other								
automotive	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
Tourism-connected products	0,0	0,0	16,9	0,0	0,0	0,0	0,0	6,0
Non-tourism products	0,0	0,0	0,0	0,0	0,0	0,0	0,0	1,0
Retail	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
Distribution margins	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
Clubs, pubs, taverns and bars	0,0	0,0	0,0	0,0	5,3	0,0	0,0	0,0
Manufacturing	0,0	0,0	0,0	0,0	8,0	0,0	0,0	0,0
Casinos and other gambling								
services	0,0	0,0	0,0	0,0	0,3	0,0	0,0	0,0
Libraries, museums and arts	0,0	0,0	0,0	0,0	2,0	0,0	0,0	0,0
Other entertainment services	0,0	0,0	0,0	0,0	3,1	0,0	0,0	0,0
Education	0,0	0,0	0,0	0,0	4,5	0,0	0,0	0,0
All other industries	0,0	0,0	19,5	0,0	7,9	0,0	0,0	0,0
Exports of goods and services	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
Imports of goods and services	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0

100,0

0,0

100,0

100,0

100,0

5,0

Table AO: Table 7 of the TSA – Tourism employment ratios of seven countries

0,0

0,0

²⁸ Tourism employment ratios for NZ can be found in Table L. Complied differently from other tables (see Table L).

4. Recommendations for the compilation of a Tourism Satellite Account in South Africa

From the country experiences (international best practice) in the compilation of a TSA discussed in part 2 of this document, the following is recommended:

- Most of the countries have compiled TSA Tables 1–6. Some countries compiled Table 7 and Table 10 as well depending on data availability. For South Africa, as a starting point, compile Tables 1–6 (excluding Table 3) and Table 10 (also try to compile Table 7 depending on data availability).
- Most countries have difficulties in compiling Table 3 (outbound tourism) due to a lack of data. Since the data from the domestic tourism survey (conducted by SAT) are not sufficient for the compilation of Table 3, it is recommended that South Africa may also introduce a new survey (arrivals survey) that will collect information about outbound tourism at international boarders (air, water, land, etc.) as the residents return to the country after their trip.
- For the compilation of Table 7 of the TSA, most countries use the LFS and QES as the main data sources. Estimates of the number of persons employed in tourism-related industries have been derived from the LFS and QES. LFS and QES include information such as gender of employees, and whether they are employed as full-time or part-time workers. It is recommended that South Africa²⁹ include the question of gender as well as full-time and part-time employment in the QES and LFS. South Africa should also take the issues of seasonality into account since most contract workers were only appointed during the last quarter of the year. Some countries derived the direct tourism employment by applying the tourism industry ratio on the LFS and QES to derive the total tourism employment.
- Like Australia, South Africa can estimate tourism gross value added, tourism GDP and tourism employment relating to the direct impact of tourism only. A direct impact occurs where there is a direct relationship (physical and economic) between visitors and producers of goods or services.
- Austria made the assumption that all same-day visitors travelling to Austria were from neighbouring countries. Due to a lack of same-day visitors data in South Africa, it is recommended that South Africa in the interim make the assumptions that all same-day visitors travelling to South Africa were from neighbouring countries such as Botswana, Mozambique, Zimbabwe, Lesotho, etc. The information can be sourced from the departure survey conducted by SAT.
- Scotland assumed that all pre- and post-trip expenditure should be included as visitor final consumption. For the collection of visitor final consumption expenditure, it is recommended that South Africa include questions of pre- and post-trip expenditure in the departure and domestic survey. This information will be useful in the compilation of Tables 1 and 3 of the TSA.
- It is recommended that South Africa use the BoP data to estimate international visitor expenditure such as transportation and travel services. The BoP data can be compared with the SAT departure survey to see if the two data sources are complementing each other. If there were a major difference between the BoP and SAT³⁰ departure survey, then adjustments would be needed. BoP can further be broken down into tourism products such as transport, meals, accommodation, etc. South Africa can also learn from a country such as New Zealand for the use of BoP to estimate international visitor expenditure.

²⁹ South Africa is currently busy investigating the QES/LFS as the data source to compile Table 7 of the TSA.

³⁰ SAT and SARB are currently in the process of sorting out the differences between BoP and SAT figures.

NZ uses the BoP transportation credits to determine expenditure on airfares by foreign students studying in NZ for less than one year. NZ also uses BoP to derive expenditure on the course fee and living costs per student for students studying at schools, tertiary institutions, private English Language Providers and for those on study tours. The information will be useful in the compilation of Tables 2 and 4 of the TSA.

• Most of the countries use CATI to collect data for household survey (LFS). South Africa should also look at the possibility of using CATI to collect household survey data in order to minimise the possible memory gaps.

Glossary

- **Country of residence** If a person resides (or intends to reside) for more than one year in a given country and has there his/her centre of economic interest (e.g. his/her major source of income), he/she is considered a resident of that country.
- Domestic tourismThe tourism of resident visitors within the economic
territory of the country of reference.
- **Domestic tourism consumption** Comprises the consumption of resident visitors within the economic territory of the country of reference.
- Domestic touristA resident visitor who visits within the economic
territory of the country of reference.
- **Domestic visitor** Visitors, whose country of residence is the country visited. They may be nationals of this country or foreigners.
- **Expenditure** The value of the amounts that buyers pay or agree to pay to sellers in exchange for the goods or services that sellers provide to them or to other institutional units designated by the buyers.
- **Establishment** An enterprise, or part of an enterprise, which is situated in one location and engaged in mainly one type of productive activity, which is the principal activity.
- **Gross Domestic Product** The total value of goods and services produced within the geographic boundaries of a country for a specified period of time.

Gross fixed capital formation The total value of a producer's acquisitions, less disposals, of fixed assets during the accounting period plus certain additions to the value of non-produced assets realised by the productive activity of institutional units. Fixed assets are tangible or intangible assets produced as outputs from processes of production that are themselves used repeatedly or continuously in other processes of production for more than one year.

Household final consumption	Includes all consumption expenditure made by
expenditure	households from their own cash resources
	(including all income in cash received), as well as all
	the counterpart of income in kind (except social
	transfers in kind) that those households might have
	received, such as remuneration in kind and other
	transfers in kind. It also includes the value of all
	consumption of output for own final use, such as
	those provided by second homes on own account
	used for tourism purposes or what it can have
	received through barter transactions.

- **Inbound tourism consumption** Comprises the consumption of non-resident visitors within the economic territory of the country of reference and/or that provided by residents.
- Inbound tourist A non-resident visitor who visits within the economic territory of the country of reference.
- Industry A group of establishments engaged in the same, or similar, kinds of economic activity.
- Internal tourism The tourism of visitors, both resident and nonresident, within the economic territory of the country of residence. It is a combination of domestic and inbound tourism.
- **Internal tourism consumption** The consumption of both resident and non-resident visitors within the economic territory of the country of reference and/or that provided by residents.
- International tourist An international visitor who stays at least one night in collective or private accommodation in the country visited.
- International traveller Any person on a trip between two or more localities in different countries.
- International visitor Any person who travels to a country other than that in which he/she has his/her residence but outside his/her usual environment for a period that is less than 12 months and whose main purpose of the visit is other than the exercise of an activity remunerated from within the country visited.
- National tourismNational tourism is the combination of domestic and
outbound tourism.
- **National tourism consumption** The consumption of both resident visitors within and outside the economic territory of the country of reference.

- Occupancy rate The number of stay unit nights sold, divided by the product of the number of stay units nights available and the number of days in the survey period, expressed as a percentage.
- **Outbound tourism** The tourism of resident visitors outside the economic territory of the country of reference.
- **Outbound tourism consumption** Comprises the consumption of resident visitors outside the economic territory of the country of reference and provided by non-residents.
- **Overseas traveller (tourism and migration)** A foreign traveller visiting South Africa (SA), excluding travellers from mainland Africa and from 'unspecified' countries.
- Producer price indexPPI measures prices relating to the production
sector of the economy and is divided into inputs and
outputs index
- Production price index (South
Africa)PPI measures prices at the level of the first
significant commercial transaction.
- Purpose of visit
 The major groups that are recommended for classifying the main purpose of visit (or trip) are: Leisure, recreation and holidays Visiting friends and relatives Business and professional Health treatment Religion/pilgrimages Other
- **Residence** An institutional unit's residence is the location where its centre of principal economic interest can be found. The residence of a household is that of all its members.
- **Same-day visitor** A visitor who visits a place for less than one night.
- Stay unitThe unit of accommodation available to be charged
out to guests, for example, a powered site in a
caravan park or a room in a hotel.
- Stay unit night soldThe total number of stay units occupied on each
night during the survey period.
- TourismThe 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-characteristic activity | Those productive activities that have tourism-
characteristic products as their principal output. |
|---------------------------------|--|
| Tourism-characteristic industry | A group of establishments whose principal productive activity is a tourism-characteristic activity. |
| | |

Tourism-characteristic products Products which, in the absence of visitors, in most countries would probably cease to exist in meaningful quantity of for which the level of consumption would be significantly reduced and for which it seems possible to obtain statistical information.

Tourism consumptionThe total consumption expenditure made by a visitor
or on behalf of a visitor for and during his/her trip
and stay at a destination.

Tourism-connected activities Those productive activities that have tourismconnected products as their principal output.

Tourism gross domestic
productThe gross domestic product generated in the
economy by the tourism industries and other
industries in response to tourism internal
consumption.

Tourism gross fixed capital formation Is the sum of the gross fixed capital formation in specific tourism fixed produced assets by all economic productive activities and the gross fixed capital formation of tourism industries in non-specific tourism fixed assets.

Tourism industryAll establishments whose principal productive
activity is a tourism-characteristic activity, i.e. the
sum of all tourism-characteristic activities.

TouristA visitor who stays at least one night in the place
visited.

Usual environment To be outside the 'usual environment' the person should travel more than 40 kilometres from place of residence (one way) AND the place should NOT be visited more than once a week. This includes place of work and place of study. Leisure and recreational trips are included irrespective of frequency.

Value added of the tourismSums the value added of all characteristic producersindustriesregardless of the buyers of their output; it excludes
non-characteristic producers.

Visitor Any person travelling to a place other than that of his/her usual environment for less than 12 months and whose main purpose of trip is other than the exercise of an activity remunerated from within the place visited.

- **Visitor consumption** The total consumption expenditure made by a visitor or on behalf of a visitor for or during his/her trip and stay at the destination.
- Visitors' expenditures Are traditionally used in the analysis of the tourism economy. They include expenditures on goods and services consumed by visitors for and during their trips and stay at destination. It corresponds with the monetary transactions component of tourism consumption.

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Annexures

Annexure 1: Tourism-characteristic products

The list of tourism-characteristic products is provisional and corresponds to products considered characteristic for purposes of the international comparability of results. Consequently, it is meant to serve as a proposal of how, in the future, the various international organisations could present, in a comparable way, the results of countries that have developed a TSA.

In coding the various items, six-digit codes with a point between the fifth and sixth digits were used. The first five digits correspond to the central product classification (CPC), Version 1.0 code, and the sixth digit is used exclusively for the present list. If the sixth digit is a zero, it means that this item is the same as the one presented in the CPC, Version 1.0 and has been drawn from it, but if the sixth digit is not a zero the item corresponds only partly to the CPC code. For example, code 63110.0, 'Hotel and motel lodging services', is identical to CPC code 63110, whereas code 63199.1, 'Sleeping car', corresponds only in part to CPC code 63199.

1. Accommodation services

1.1 Hotels and other lodging services

63110.0	Hotel and motel lodging services
63191.0	Holiday centre and holiday home services
63192.0	Letting services of furnished accommodation
63193.0	Youth hostel services
63194.0	Children's training and holiday camp services
63195.0	Camping and caravanning site services
63199.1	Sleeping-car and similar services in other transport media; residence of students

1.2 Second homes services on own account or for free

This subclass includes the imputed rent on owned second homes or for-free and time-share apartments. There is no code in the CPC with this information.

	72211.1	Support services to time-share activities
--	---------	---

2. Food and beverage serving services

63210.0	Meal-serving services with full restaurant services
63220.0	Meal-serving services in self-service facilities
63290.0	Other food-serving services
63300.0	Beverage-serving services for consumption on the premises

3. Passenger transport services

3.1 Interurban railway transport services

64111.1	Scheduled rail services of passengers
64111.2	Non-scheduled rail services of passengers

3.2 Road transport services

64213.0	Interurban scheduled road transport services of passengers
64214.0	Interurban special purpose scheduled road transport services of passengers
64219.1	Scheduled ski-hills services
64219.2	Teleferic-funicular services
64221.0	Taxi services
64222.0	Rental services of passenger cars with operator
64223.0	Rental services of buses and coaches with operator

3.3 Water transport services

65111.0	Coastal and transoceanic water transport services of passengers by ferry
65119.1	Scheduled transport services of passengers
65119.2	Non-scheduled transport services of passengers
65119.3	Cruise ship services
65130.1	Personal passenger vessel services
65211.0	Inland water transport services of passengers by ferries
65219.1	Other scheduled inland water transport services of passengers
65219.2	Sightseeing excursion services
65219.3	Cruise services
65230.0	Rental services of inland water vessels with operator

3.4 Air transport services

66110.0	Scheduled air transport services of passengers
66120.1	Non-scheduled air services of passengers
66120.2	Sightseeing services, aircraft or helicopter
66400.0	Rental services of aircraft with operator

3.5 Supporting passenger transport services

67300.0	Navigational aid services
67400.0	Supporting services for railway transport
67510.0	Bus station services
67530.1	Parking of passenger terminal transport
67610.0	Port and waterway services (excluding cargo handling)
67690.1	Vessel fuelling services
67690.2	Maintenance and upkeep of services to private recreation passenger services
67710.0	Airport operation services (excluding cargo handling)
67790.0	Other supporting services for air or space transport

3.6 Passenger transport equipment (rental)

73111.0	Leasing or rental services concerning cars and light vans without operator
73114.1	Leasing or rental services concerning campers/motor without operator
73115.1	Leasing or rental services concerning passenger vessels without operator
73116.1	Leasing or rental services concerning passenger aircraft without operator

3.7 Maintenance and repair services of passenger transport equipment

87143.0	Maintenance and repair services of trailers, semi-trailers and other motor vehicles not elsewhere classified
87149.1	Maintenance and repair services of leisure vessel of own use
87149.2	Maintenance and repair services of leisure aircraft of own use

4. Travel agencies, tour operator and tourist guide services

4.1 Travel agency services

67811.0	Travel agency services

4.2 Tour operator services

67812.0	Tour operator services

4.3 Tourist information and tourist guide services

67813.0	Tourist information services
67820.0	Tourist guide services

5. Cultural services

5.1 Performing arts

96230.0	Performing arts facility operation services
96310.0	Services of performing artists

5.2 Museum and other cultural services

96411.0	Museum services except for historical sites and buildings
96412.0	Preservation services of historical sites and buildings
96421.0	Botanical and zoological garden services
96422.0	Nature reserve services including wildlife preservation services

6. Recreation and other entertainment services

6.1 Sports and recreational sport services

96510.0	Sports and recreational sports event promotion and organisation services
96520.1	Golf course services
96520.2	Ski fields
96520.3	Race circuit
96520.5	Recreation park and beach services
96590.1	Risk sport and adventure

6.2 Other amusement and recreation services

96910.1	Theme park services
96910.2	Amusement park services
96910.3	Fair and carnival services
96920.1	Casino services
96920.2	Slot machine services

7. Miscellaneous tourism services

7.1 Financial and insurance services

71100.1	Travel card services
71100.2	Travel loan services
71311.1	Travel life insurance services
71320.1	Travel accident insurance services
71320.2	Travel health insurance services
71334.1	Passenger aircraft of own use insurance services
71334.2	Passenger vessel of own use insurance services
71339.1	Travel insurance services
71552.0	Foreign exchange services

7.2 Other rental services

73240.1	Non-motorised land transport equipment leasing or rental services
73240.2	Winter sports equipment leasing or rental services
73240.3	Non-motorised air transport equipment leasing or rental services
73240.4	Water sports and beach equipment leasing or rental services
73240.5	Camping equipment leasing or rental services
73240.6	Saddle horse leasing or rental services
73290.1	Photographic camera rental services

7.3 Other tourism services

85970.0	Trade fair and exhibition organisation services
97230.4	Spa services
91131.1	Fishing licence services
91131.2	Hunting licence services
91210.1	Passport issuing services
91210.2	Visa issuing services
96620.2	Guide services (mountain, hunting and fishing)
97910.0	Escort services

Annexures 2–11 show the ten tables of the TSA.

Annexure 2: Table 1 – Inbound tourism consumption, by products and
categories of visitors (visitor final consumption expenditure in cash) (net
valuation)

Durch of t	Same-day	Tourists	Total visitors
Products	VISITORS	(1 2)	$(1 \ 3) = (1 \ 1) + (1 \ 2)$
	(1.1)	(1.2)	(1.3)-(1.1)·(1.2)
A. SPECIFIC PRODUCTS			
A.1 Characteristic products (a)			
1. Accommodation services			
1.1 Hotels and other lodging services (3)	Х		
1.2 Second homes services on own account or for free	Х		
2. Food and beverage serving services (3)	х	х	x
3. Passenger transport services (3)			
3.1 Interurban railway (3)			
3.2 R080 (3)			
3.3 Water (3)			
3.4 Alf (3)			
3.5 Supporting services			
3.6 Transport equipment remain			
5.7 Maintenance and repair services			
4. Travel agency, tour operator and tourist guide services			
4.1 Have agencies (1)			
4.2 Tour operators (2)			
5. Cultural convices (3)			
5. Cultural services (5)			
5.2 Museum and other cultural services			
6 Recreation and other entertainment services (3)			
6.1 Sports and recreational sport services			
6.2 Other amusement and recreation services			
7 Miscellaneous tourism services			
7 1 Financial and insurance services			
7 2 Other goods rental services			
7.3 Other tourism services			
A.2 Connected products			
Distribution margins			
Goods (4)			
Services			
B. NON-SPECIFIC PRODUCTS			
Distribution margins			
Goods (4)			
Services			
TOTAL			
Number of trips			
Number of overnights			

Source: TSARMF 2001

x does not apply

Corresponds to the margins of travel agencies.
 Corresponds to the margins of tour operators.
 The value is net of the amounts paid to travel agency and tour operator services.
 The value is net of distribution margins.

(a) Even if they are called "products", no goods are included for the time being. Two main reasons led to that decision:

- the importance of the existing differences (both in level and structure) between the types of goods acquired by visitors according to the country and place visited; - the existing limitations of the available sources of statistical information.

Nevertheless, goods are not completely banned from the analysis, as retail trade services (specialised and non-specialised) associated with the sale of goods to visitors are included within the list. This is due to the fact that the associated productive activity is in contact with the visitor and thus, given certain circumstances, can be viewed as a tourism activity.

Moreover, the list of products included in each of the 7 groups under consideration is shown in Annex II (TSA: RMF); the explanatory notes for each of them are also included in Annex I (TSA: RMF), so they may be clearly identified.

Products the country of resider country fresitors same-day visitors total visitors Same-day visitors A. Characteristic products (a) X <td< th=""><th></th><th colspan="2">Resident visitors travelling only within</th><th colspan="3">Resident visitors travelling to a different</th><th colspan="3">All resident visitors**</th></td<>		Resident visitors travelling only within		Resident visitors travelling to a different			All resident visitors**			
ProductsSame-day visitors (2.1)Total visitors total visitors (2.3)Total visitors visitors (2.4)Total visitors total visitors visitors (2.6)Total visitors total visitors (2.6)Total visitors visitors (2.6)Total visitors visitors (2.6)Total visitors visitors (2.6)Total visitors visitors (2.6)Total visitors visitors (2.6)Total visitors visitors (2.6)Total visitors visitors (2.6)Total visitors visitors (2.6)Total visitors (2.6)Same-day (2.6)Total visitors (2.6)Same-day (2.6)Total visitors (2.6)Same-day (2.6)Total visitors (2.6)Same-day (2.6)Total visitors (2.6)Same-day (2.6)Total visitors (2.6)Same-day (2.6)Total visitors (2.6)Same-day (2.6)Total visitors (2.6)Same-day 		1	the country of re	sidence	country*					
visitors (2.1) (2.2) (2.3) (2.5) (2.6)=(2.4)+(2.5) (2.7)=(2.1)+(2.4) (2.8)=(2.2)+(2.6) (2.8)=(2.4)+(2.6) (2.8)=(2.4)+(2.6) (2.8)=(2.6)+(2.6)	Products	Same-day	Tourists	Total visitors	Same-day	Tourists	Total visitors	Same-day	Tourists	Total visitors
A. SPECIFIC PRODUCTS (2.1) (2.2) (2.3)=(2.1)+(2.2) (2.4) (2.6) (2.6)=(2.4)+(2.5) (2.7)=(2.1)+(2.4) (2.8)=(2.2)+(2.6) (2.8)=(2.4)+(2.6) (2.8)=(2.4)+(2.6) (2.8)=(2.4)+(2.6) (2.8)=(2.4)+(2.6) (2.		visitors			visitors			visitors		
A SPECIFIC PRODUCTS A 1 Characteristic products (a) A 1 Characteristic products (a) A commodation services (a) A commodation services (b) A commodation services (c) A commodation services (c) A commodation services (c) A commodation services (c) A commodation and noise guides services A commodation and noise guides services A commodation and noise guides A commodation a		(2.1)	(2.2)	(2.3)=(2.1)+(2.2)	(2.4)	(2.5)	(2.6)=(2.4)+(2.5)	(2.7)=(2.1)+(2.4)	(2.8)=(2.2)+(2.5)	(2.9)=(2.3)+(2.6)
A 1 Characteristic products (a) 1. Accommodation services x x x x x x x x x x x x x	A. SPECIFIC PRODUCTS									
1. Accommodation services x<	A.1 Characteristic products (a)									
1.1 Hotels and other lodging services (3) x	1. Accommodation services	х			х			х		
1.2. Second homes services on own account of of freexxx <th< td=""><td>1.1 Hotels and other lodging services (3)</td><td>х</td><td></td><td></td><td>х</td><td></td><td></td><td>х</td><td></td><td></td></th<>	1.1 Hotels and other lodging services (3)	х			х			х		
2. Food and beverage serving services (3) 3. Passenger transport services (3) 3.1 Interruban railway (3) 3.2 Road (3) 3.3 Water (3) 3.4 Air (3) 3.5 Supporting services 3.6 Transport equipment rental 3.7 Maintenance and repair services 4. Travel agency, tour operator and tourist guide services 4.1 Travel agency, tour operator and tourist guides 5. Cultural services (1) 4.2 Tour operators (2) 4.3 Tourist information and tourist guides 5. Cultural services (3) 5.1 Performing arts 5.2 Museum and other cultural services 6.1 Recreation all other cultural services 6.2 Other amusement and recreation services 7.1 Financial and insurance services 7.2 Other goods rental services 7.3 Other tourism services 7.4 Other goods rental services 7.5 Other optices 7.6 Other optices 7.7 Other goods rental services 7.8 Other tourism services 7.9 Other optices 7.2 Other goods rental services 7.3 Other tourism services 7.3 Other tourism services 7.3 Other tourism services	1.2 Second homes services on own account or for free	х	х	х	х	х	х	х	х	х
3. Passenger transport services (3) 3.1 Interruban railway (3) 3.2 Road (3) 3.3 Water (3) 3.4 Air (3) 3.5 Supporting services 3.6 Transport equipment rental 3.7 Maintenance and repair services 4.1 Travel agency, tour operator and tourist guide services 4.1 Travel agency, tour operators (2) 4.3 Tourist information and tourist guides 5.1 Verforming arts 5.2 Unuseum and other cultural services (3) 6.1 Sports and recreational sport services 6.2 Other anusement and recreational services 7.1 Financial and insurance services 7.2 Other goods rental services 7.3 Other tourism services 7.3 Other tourism services 7.4 Other goods rental services 7.3 Other tourism services 7.3 Other tourism services 7.4 Other goods rental services 7.3 Other tourism services 7.4 Other goods rental services 7.5 Other go	Food and beverage serving services (3)									
3.1 Interruban railway (3) 3.2 Read (3) 3.3 Water (3) 3.4 Air (3) 3.5 Supporting services 3.6 Transport equipment rental 3.7 Maintenance and repair services 4.1 Travel agency, tour operator and tourist guide services 4.1 Travel agency, tour operators (2) 4.2 Tour operators (2) 4.3 Tourist information and tourist guides 5. Cultural services (3) 5.1 Performing atts 5.2 Museum and other cultural services 6.1 Recreation and other rentertainment services (3) 6.1 Recreation and other cultural services 6.2 Other amusement and recreational sport services 7.1 Financial and insurance services 7.2 Other goods rental services 7.3 Other tourism services 7.3 Other tourism services 7.3 Other tourism services 7.3 Other tourism services 7.4 Other tourism services 7.5 Distribution margins	Passenger transport services (3)									
3.2 Road (3) 3.3 Water (3) 3.4 Air (3) 3.5 Supporting services 3.6 Transport equipment rental 3.7 Maintenance and repair services 4.7 Travel agence; tour operator and tourist guide services 4.1 Travel agence; tour operator and tourist guides 4.2 Touris information and tourist guides 5.2 Cultural services (3) 6.1 Sports and recreational sport services 5.2 Museum and other entertainment services (3) 6.1 Sports and recreation all sport services 6.2 Other amusement and recreation services 7.1 Financial and insurance services 7.2 Other goods rental services 7.3 Other goods rental services 7.4 Other goods rental services 7.3 Other goods rental services 7.3 Other goods rental services 7.4 Connected products A2 Surgenset A Connected products	3.1 Interurban railway (3)									
 3.3 Water (3) 3.4 Air (3) 3.5 Supporting services 3.6 Transport equipment rental 3.7 Maintenance and repair services 4. Travel agency, tour operator and tourist guide services 4.1 Travel agency, tour operators (2) 4.2 Tour operators (2) 4.3 Tourist information and tourist guides 5. Cultural services (3) 5.1 Performing arts 5.2 Museum and other cultural services 6.1 Sports and recreation al sport services 6.2 Other amusement and recreation services 7.1 Financial and insurance services 7.2 Other goods rental services 7.3 Other tourism services 7.4 Sconnected products Distribution marains 	3.2 Road (3)									
3.4 Air (3) 3.5 Supporting services 3.6 Transport equipment rental 3.7 Maintenance and repair services 4.7 Travel agency, tour operator and tourist guide services 4.1 Travel agencies (1) 4.2 Touroperators (2) 4.3 Tourist information and tourist guides 5. Cultural services (3) 5. Ferforming arts 5.2 Museum and other cultural services (3) 6.1 Sports and recreation apot services (3) 6.2 Other amusement and recreation services 7.4 Financial and insurance services 7.1 Financial and insurance services 7.2 Other goods rental services 7.3 Other tourism services 7.3 Other durism services 7.3 Other durism services 7.3 Other durism services 7.3 Other durism services 7.4 Stribution margins	3.3 Water (3)									
3.5 Supporting services 3.6 Transport equipment rental 3.7 Maintenance and repair services 4. Travel agencies (1) 4.1 Travel agencies (1) 4.2 Tour operators (2) 4.3 Tourist information and tourist guides 5. Cultural services (3) 5.1 Performing afts 5.2 Museum and other cultural services (3) 6.1 Sports and recreational sport services 6.2 Other anusement and recreation services 7.1 Financial and insurance services 7.2 Other goods rental services 7.3 Other goods rental services 7.3 Other dourism services 7.3 Other dourism services 7.3 Other dords Distribution margins Distribution margins	3.4 Air (3)									
3.6 Transport equipment rental 3.7 Maintenance and repair services 4. Travel agency, tour operator and tourist guide services 4.1 Travel agencies (1) 4.2 Tour operators (2) 4.3 Tourist information and tourist guides 5. Cultural services (3) 5.1 Performing arts 5.2 Museum and other cultural services (3) 6.1 Sports and recreation al sport services 6.2 Other entertainment services 7.4 Financial and insurance services 7.1 Financial and insurance services 7.3 Other tourism services 7.4 Connected products Distribution margins Image: Service services	3.5 Supporting services									
 3.7 Maintenance and repair services 4. Travel agency, bur operators (1) 4.2 Tour operators (2) 4.3 Tourist information and tourist guides 5. Cultural services (3) 5.1 Performing arts 5.2 Museum and other cultural services 6. Recreation and other entertainment services (3) 6.1 Sports and recreational sport services 6.2 Other amusement and recreation services 7. Miscellaneous tourism services 7.1 Financial and insurance services 7.2 Other goods rental services 7.3 Other tourism services A.2 Connected products Distribution margins 	3.6 Transport equipment rental									
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 4.3 Tourist information and tourist guides 5. Cultural services (3) 5.1 Performing arts 5.2 Museum and other cultural services 6. Recreation and other entertainment services (3) 6.1 Sports and recreational sport services 6.2 Other amusement and recreation services 7. Miscellaneous tourism services 7.1 Financial and insurance services 7.2 Other goods rental services 7.3 Other tourism services A.2 Connected products Distribution margins 	4.2 Tour operators (2)									
 5. Cultural services (3) 5.1 Performing arts 5.2 Museum and other cultural services 6. Recreation and other entertainment services (3) 6.1 Sports and recreational sport services 6.2 Other amusement and recreation services 6.2 Other amusement and recreation services 7.1 Financial and insurance services 7.2 Other goods rental services 7.3 Other tourism services A.2 Connected products Distribution margins 	4.3 Tourist information and tourist guides									
5.1 Performing arts 5.2 Museum and other cultural services 6. Recreation and other entertainment services (3) 6.1 Sports and recreational sport services 6.2 Other amusement and recreation services 7. Miscellaneous tourism services 7.1 Financial and insurance services 7.2 Other goods rental services 7.3 Other tourism services 7.3 Other tourism services A.2 Connected products Image: Construct of the service of the	5. Cultural services (3)									
 5.2 Museum and other cultural services 6. Recreation and other entertainment services (3) 6.1 Sports and recreational sport services 6.2 Other amusement and recreation services 7. Miscellaneous tourism services 7.1 Financial and insurance services 7.2 Other goods rental services 7.3 Other tourism services A.2 Connected products Distribution margins 	5.1 Performing arts									
6. Recreation and other entertainment services (3) 6.1 Sports and recreational sport services 6.2 Other amusement and recreation services 7. Miscellaneous tourism services 7.1 Financial and insurance services 7.2 Other goods rental services 7.3 Other tourism services 7.3 Other tourism services A.2 Connected products Distribution margins	5.2 Museum and other cultural services									
6.1 Sports and recreational sport services 6.2 Other amusement and recreation services 7.1 Financial and insurance services 7.1 Financial and insurance services 7.2 Other goods rental services 7.3 Other tourism services A.2 Connected products Distribution margins	Recreation and other entertainment services (3)									
6.2 Other amusement and recreation services 7. Miscellaneous tourism services 7.1 Financial and insurance services 7.2 Other goods rental services 7.3 Other tourism services A.2 Connected products Distribution margins	6.1 Sports and recreational sport services									
7. Miscellaneous tourism services 7.1 Financial and insurance services 7.2 Other goods rental services 7.3 Other tourism services A.2 Connected products Distribution margins	6.2 Other amusement and recreation services									
7.1 Financial and insurance services 7.2 Other goods rental services 7.3 Other tourism services A.2 Connected products Distribution margins	Miscellaneous tourism services									
7.2 Other goods rental services 7.3 Other tourism services A.2 Connected products Image: Connected products Distribution margins Image: Connected products	7.1 Financial and insurance services									
7.3 Other tourism services A.2 Connected products Distribution margins	7.2 Other goods rental services									
A.2 Connected products Distribution margins	7.3 Other tourism services									
Distribution margins	A.2 Connected products									
	Distribution margins									
Goods (4)	Goods (4)									
Services	Services									
B.NON-SPECIFIC PRODUCTS	B.NON-SPECIFIC PRODUCTS									
Distribution margins	Distribution margins									
Goods (4)	Goods (4)									
Services	Services									
	IOIAL									
Number of trips	Number of trips									
Number of overnights	Number of overnights									I

Source: TSARMF 2001

Notes (1) to (4) and (a) as for Table 1

* This set of visitors refers to those resident visitors whose trip will take them outside the economic territory of the country of residence. These columns will include their consumption expenditure

x does not apply

before departure or after return.

** Due to the fact that some expenditures cannot be associated specifically to any of these categories of visitors (for instance, single-purpose consumer durables bought or purchased outside the context of a trip), the estimation of domestic tourism consumption (which corresponds to the last column of the table) will require some specific adjustments. Visitor final consumption expenditure in cash for all resident visitors, is not strictly the sum of this concept for each category of visitors.

Annexure 4: Table 3 – Outbound tourism consumption, by products and ad hoc resident visitors (visitor final consumption expenditure in cash) (net valuation)

	Same-day	Tourists	Total visitors
Products	visitors		
	(3.1)	(3.2)	(3.3)=(3.1)+(3.2)
A. SPECIFIC PRODUCTS			
A.1 Characteristic products (a)	~		
1. Accommodation services			
1.1 Hotels and other lodging services (3)	×	v	v
1.2 Second homes services on own account or for free	^	^	^
Food and beverage serving services (3)			
Passenger transport services (3)			
3.1 Interurban railway (3)			
3.2 Road (3)			
3.3 Water (3)			
3.4 Air (3)			
3.5 Supporting services			
3.6 Transport equipment rental			
3.7 Maintenance and repair services			
4. Travel agency, tour operator and tourist guide services			
4.1 Travel agencies (1)			
4.2 Tour operators (2)			
4.3 Tourist information and tourist guides			
5. Cultural services (3)			
5.1 Performing arts			
5.2 Museum and other cultural services			
6. Recreation and other entertainment services (3)			
6.1 Sports and recreational sport services			
6.2 Other amusement and recreation services			
7. Miscellaneous tourism services			
7.1 Financial and insurance services			
7.2 Other goods rental services			
7.3 Other tourism services			
A 2 Connected products			
Distribution margins			
Goods (4)			
Services			
B. NON-SPECIFIC PRODUCTS			
Distribution margins			
Goods (4)			
Services			
IOIAL			
Number of trips			
Number of overnights			

Source: TSARMF 2001

x does not apply

Notes (1) to (4) and (a) as for Table 1

Annexure 5: Table 4 – Internal tourism consumption, by products and types of tourism (net valuation)

	Visitor fina	l consumption expendit	ure in cash	Other components of	Internal tourism		
Products	Inbound tourism consumption (4.1)*	Domestic tourism consumption (4.2)**	Internal tourism consumption in cash (4.1)+(4.2)=(4.3)	(4.4)***	consumption (in cash and in kind) (4.5)=(4.3)+(4.4)		
A. SPECIFIC PRODUCTS							
 A.1 Characteristic products (a) 1. Accommodation services 1.1 Hotels and other lodging services (3) 1.2 Second homes services on own account or for free 2. Food and beverage serving services (3) 3. Passenger transport services (3) 3.1 Interurban relivera (3) 	x	x	x				
 3.2 Road (3) 3.3 Water (3) 3.4 Air (3) 3.5 Supporting services 3.6 Transport equipment rental 3.7 Maintenance and renair services 							
 4. Travel agency, tour operator and tourist guide services 4.1 Travel agencies (1) 4.2 Tour operators (2) 4.3 Tourist information and tourist guides 							
 Cultural services (3) Performing arts Museum and other cultural services 							
 Recreation and other entertainment services (3) 6.1 Sports and recreational sport services 6.2 Other amuscment and recreation services 							
Miscellaneous tourism services 7.1 Financial and insurance services							
7.2 Other goods rental services 7.3 Other tourism services A.2 Connected products							
Distribution margins							
Distribution margins							
Services							
Value of domestically produced goods net of distribution margins							
Value of imported goods net of distribution margins							
IOTAL							

Source: TSARMF x does not apply

Corresponds to 1.3 in table 1.

** Corresponds to 2.9 in table 2.

Notes (1) to (3) and (a) as table 1

*** These components (referred to as visitor final consumption expenditure in kind, tourism social transfer in kind and tourism business expenses) are recorded separately as these components are not easily attributable by types of tourism.

Country experience in the compilation of Tourism Satellite Accounts

*

						Tourism i	ndustries						Total			Total output
Products	1	2	3	4	5	6	7	8	9	10	11	12	tourism industries	Tourism- connected activities	Non- specific industries	of domestic producers (at basic prices)
 A. SPECIFIC PRODUCTS A.1 Characteristic products (a) Accommodation services Hotels and other lodging services (3) Second homes services on own account or for free Food and beverage serving services (3) Interrurban railway (3) Resenger transport services (3) Interrurban railway (3) Water (3) Water (3) Transport equipment rental Travel agency, tour operator and tourist guide services Travel agency, tour operator and tourist guides Cultural services (3) Performing arts Cultural services (3) Sports and recreational sport services Recreation and other entertainment services (3) Sports and recreational sport services Cultural and insurance services Tourise and insurance services Contended and insurance services Contended and insurance services Other goods rental services Contended products Distribution margins Services 	x	x x x x x x x x x x x x x x x x x x x	x	x	x	×	×	×	x	×	×	x		x	industries	basic prices)
Value of domestic produced goods net of distribution margins Value of imported goods net of distribution margins	x	x x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
TOTAL output (at basic prices)																
Agriculture, forestry and fishery products Ores and minerals Electricity, gas and water Manufacturing Construction work and construction Trade services, restaurant and hotel services Transport, storage and communication services Business services Community, social and personal services Total intermediate consumption (ourchaser price)														X X X X X X X X X	x x x x x x x x x x	x x x x x x x x x x x
Total gross value added of activities at basic prices																
Compensation of employees Other taxes less subsidies on production Gross mixed income Gross operating surplus																

Annexure 6: Table 5 – Production accounts of the tourism industries and other industries (net valuation)

Source: TSARMF 2003

Notes (1) to (3) and (a) as table 1

x does not apply

Key to tourism industries columns

- 1 Hotels and similar services
 - 2 Second home ownership (imputed)
 - 3 Restaurants and similar
 - 4 Railway passenger transport

- 5 Road passenger transport
- 6 Water passenger transport
- 7 Air passenger transport
- 8 Passenger transport supporting services
- 9 Passenger transport equipment rental

10 - Travel agencies and similar

11 – Cultural services

12 – Sporting and other recreational services

Annexure 7: Table 6 – Domestic supply and internal tourism consumption, by products (net valuation)

	r			Touriem i	nductrioc								-		Total		Tayaa laaa	1	1	
Products	Hotels an serv	nd similar /ices	Secon owne	d home ership	illustites		Sporting recreatio	and other n services	Total f indu	tourism stries	Tou conn indu	rism- lected stries	Non s indu	specific Istries	output of domestic	Imports*	subsidies on products of domestic	Domestic supply (at	Internal tourism	Tourism ratio on
	Output	Tourism share	Output	Tourism	Output	Tourism share	Output	Tourism share	Output	Tourism share	Output	Tourism share	Output	Tourism share	(at basic prices)		output and imports	price)	consumption	supply
A. SPECIFIC PRODUCTS															i ,					
A.1 Characteristic products (a)																				
 Accommodation services 																				
 Hotels and other lodging services (3) 			х	x																
1.2 Second homes services on own account or for	v	~			Y	Y	Y	Y			v	~	×	~		v	×			
free	Ŷ	^	x	x	^	~	Â	^			^	^	^	^		Ŷ	^			
Food and beverage serving services (3)			x	x																
 Passenger transport services (3) 			х	х																
3.1 Interurban railway (3)			х	х																
3.2 Road (3)			х	x																
3.3 Water (3)			х	х																
3.4 Air (3)			X	x																
3.5 Supporting services			×	×																
3.6 I ransport equipment rental			x	x																
3.7 Maintenance and repair services			~	~																
4. Travel agency, tour operator and tourist guide			x	х																
services			х	x																
4.1 Travel agencies (1)			х	х																
4.2 Tour operators (2)			х	x																
4.5 Found information and tourist guides			х	х																
5. Cultural services (5)			X	x																
5.1 Periorning and other outural convision			x	x																
5.2 Museum and other entertainment convices (2)			Ŷ	Ŷ																
 Recreation and other entertainment services (3) Sports and recreational opert services 			x	x																
6.1 Sports and recreational sport services			x	x																
6.2 Other amusement and recreation services			x	x																
7. Miscellaneous tourism services			х	х																
7.1 Findicial and insurance services			х	х																
7.2 Other tourism services			х	x																
A 2 Connected products			х	х																
A.2 Connected products			X	x																
Services			x	x																
			^	^																
Distribution margins																				
Services																				
Value of domestic produced goods net of distribution			x	x															x	x
margins	х	х	x	x	х	х	х	х	х	x	х	х	х	x	x		x	x	x	x
Value of imported goods net of distribution margins																				
TOTAL output (at basic prices)																				
 Agriculture, forestry and fishery products 											х	х	х	х	x					
2. Ores and minerals											х	х	x	х	x					
3. Electricity, gas and water											X	X	x	x	x					
wanuracutring Construction work and construction											x	×	X	x	×					
6 Trade services, restaurant and hotel services											Ŷ	x	Ŷ	Ŷ	Ŷ					
7. Transport, storage and communication services											x	â	x	x	â					
8. Business services											x	x	x	x	x					
9. Community, social and personal services											х	х	х	х	х					
Total intermediate consumption (purchaser price)																				
Total gross value added of activities at basic prices																				
Compensation of employee							1					1				1				
Other taxes less subsidies on production												1				1				
Gross mixed income																				
Gross operating surplus	1																			

Source: TSARMF 2003

... means that all tourism industries of the proposed list have to be considered one by one in the enumeration * the imports referred to here are exclusively those which are purchased in the country of reference

x does not apply Notes (1) to (3) and (a) as table 1

Annexure 8: Table 7 – Employment in the tourism industries	5
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	Number of	Νι	Imber of jo	bs		S	Status in e		Number of employed persons				
Tourism industries	establish-		total			Employees	6		Other			total	
	ments	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
 Hotels and similar services Second home ownership (imputed) Restaurant and similar services Railways passenger transport Road passenger transport Water passenger transport Air passenger transport Passenger transport supporting services Passenger transport equipment rental Travel agencies and similar 		x	x	x	х	x	x	Х	x	x	x	x	x
 11 – Cultural services 12 – Sporting and other recreation services 													
TOTAL													

Source: TSARMF 2003

x does not apply

Annexure 9: Table 8 – Tourism gross fixed capital formation of tourism industries and other industries

		Tourism industries											Other	industries		Total tourism		
	Products	1	2	3	4	5	6	7	8	9	10	11	12	Total tourism industries	Public administration	Others	Total	gross fixed capital formation of tourism industries and others
Α.	Produced non-financial assets																	
A1.	l angible fixed assets																	
п.	1 1 Hetels and other collective accommodation		~															
	1.2 Dwellings for tourism purposes		*															
2	Other buildings and structures		x															
	2.1 Restaurant and similar buildings		x															
	2.2 Construction of infrastructure for passenger																	
	transport by road, rail, water and air		х												(1)			
	2.3 Buildings for cultural services and similar		х															
	2.4 Constructions for sport, recreation and																	
	entertainment		х															
	2.5 Other construction and structures		х												(1)	(1)		
3.	Passenger transport equipment		х															
	3.1 Road and rail		X															
	3.2 Water		X															
1	Nachinery and equinment		×												(1)	(1)		
	Intangible fixed assets		Ŷ												(1)	(1)		
B.	Improvement of land used for tourism purposes		Â												(')	(1)		
то	TAL																	

Memo:

С.	Non-produced non-financial assets	х						
	 Tangible non-produced assets 	х				1		
	Intangible non-produced assets	х						
TO	TAL	х						

Source: TSARMF 2003

x does not apply

(1) Only that which is used for tourism purpose

2 – Second home ownership (imputed)3 – Restaurants and similar

Key to tourism industries columns 1 – Hotels and similar services

- transport 10 -
- 4 Railway passenger transport
 5 Road passenger transport
- 6 Water passenger transport
- 7 Air passenger transport
 8 Passenger transport supporting services
- 9 Passenger transport supporting service
- 10 Travel agencies and similar
- 11 Cultural services
- 12 Sporting and other recreation services

	National level	Regional (state) level	Local level	Total tourism collectiv consumption	Intermediate consumption
Function	(9.1)	(9.2)	(9.3)	(9.4)=(9.1)+(9.2)+(9.3)	by the tourism industries*
Tourism promotion					
General planning and coordination related to tourism affairs					x
Generation of statistics and of basic information on tourism					x
Administration of information bureaus					
Control and regulation of establishments in contract with visitors					x
Specific control to resident and non- resident visitors					x
Special civil defense services related with the protection of visitors					
Other services					
TOTAL					

Annexure 10: Table 9 – Tourism collective consumption by functions and levels of government

Source: TSARMF 2003

x does not apply

* This column reflects the expenditure by the tourism industries in tourism promotion or other services related to the functions described, when relevant.

Annexure 11: Table 10 – Non-monetary indicators

a. Number of trips and overnights by type of tourism and categories of visitors

	Inbo	und touris	m*	Dom	estic touri	sm	Outbound tourism			
	Same-day	Tourists	Total	Same-day	Tourists	Total	Same-day	Tourists	Total	
	visitors		visitors	visitors		visitors	visitors		visitors	
Number of trips*										
Number of overnights										

* In the case of inbound tourism, the variable would be "arrivals".

b. Inbound tourism: Number of arrivals and overnights by means of transport

		Number of arrivals	Number of overnights
1	Δir		
••	1.1 Scheduled flights		
	1.2 Non-scheduled flights		
	1.3 Other services		
2.	Waterway		
	2.1 Passenger lines and ferries		
	2.2 Cruise		
	2.3 Other		
3.	Land		
	3.1 Railway		
	3.2 Motor coach on bus and other public road transport		
	3.3 Private vehicles		
	3.4 Vehicle rental		
	3.5 Other means of land transport		
TO	ΓAL		

c. Number of establishments and capacity by forms of accommodation

	Collective touris	n establishments	Private tourism accommodation					
	Hotel and similar	Others	Second homes	Other				
Number of establishments Capacity (rooms) Capacity (beds) Capacity utilisation (rooms) Capacity utilisation (beds)								

d. Number of establishments in tourism-characteristic and tourism-connected activities classified according to number of employed persons

	1-4	5-9	10- 19	20- 49	50- 99	100- 249	250- 499	500- 999	>1000	TOTAL
Tourism-characteristic activities1 – Hotels and similar services2 – Second home ownership (imputed)3 – Restaurant and similar services4 – Railways passenger transport5 – Road passenger transport6 – Water passenger transport7 – Air passenger transport8 – Passenger transport supporting services9 – Passenger transport equipment rental10 – Travel agencies and similar11 – Cultural services12 – Sporting and other recreation servicesTOTAL	x	x	x	x	x	x	x	x	x	x
TOTAL										

Source: TSARMF 2003 x does not apply