Chapter 1

Introduction

1.1 Introduction

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Suspendisse felis velit, ornare ut augue non, ornare rutrum orci. Etiam et eros ligula. Integer iaculis tincidunt purus vel semper. In hac habitasse platea dictumst. Aliquam nec sodales elit. Quisque in accumsan est, eu accumsan urna. Curabitur feugiat faucibus tempor. Sed adipiscing nisi magna, a semper diam ullamcorper et.

Chapter 2

The Scottish SAM for 2009

2.1 Introduction

This chapter outlines the methodology and computations used to construct the 2009 Social Accounting Matrix (SAM) for Scotland. A SAM can be described as a static image (a snapshot) of the flow of goods, services and factors, and the concurrent flow of funds between agents in an economic system for a given time-period [Hosoe2010a]. Essentially, the computed SAM extends the Scottish Input Output (IO) tables by incorporating an Income and Expenditure (IncExp) account. Thus, the IncExp account contains information on institutional accounts that is not recorded within the IO tables. Therefore the SAM can be used to analyse social and economic policy in a more comprehensive way. The main benefits and structure of a SAM are outlined in the first sections. Next, the computed IncExp account and the 2009 Scottish IO tables are combined to complete the 2009 SAM for Scotland. In the last section, the methodology required to compute the IncExp account is described in detail.

2.2 Social Accounting Matrices

The SAM can be considered as an extension to an IO table which not only records macroeconomic-aggregates but also the distribution and redistribution of income. The focus of a SAM therefore lies in recording interrelationships at the meso-level with emphasis on distributive aspects (?, ?). A SAM can therefore be described as being concerned with the systematic organisation of information about the economic and social structure of a country, region, city or other unit, in a particular time period - usually a year (?, ?).

In contrast to IO tables, the SAM records flows from producing sectors to factors of production and then on to institutional accounts and finally back to demand for goods (?, ?). As such, a SAM is different from an IO table as it contains complete information on institutional accounts (i.e. households, government and corporations), instead of solely tracing income and expenditure flows of activities and commodities (?, ?). The main features of a SAM can be divided into three sections (?, ?):

First, the SAM is a square matrix where the rows represent the flow of goods/factors in money terms, whilst the columns represent the flow of payments. The SAM records the expenditures down the columns and the receipts along the rows. The row sums in the SAM show the total receipts and the column sums show the total payments of funds. Importantly, each row sum must equal its corresponding column sum. That is, the total revenue must equal total expenditure in each account (?, ?). Each cell in the SAM represents a flow of funds from a column account to a row account, thereby documenting the interconnections between these accounts in an explicit way and identifying the source and use of all transactions.

Second, the SAM is considered to be comprehensive as it shows economic activity in terms of consumption, production, accumulation and distribution (although not necessarily in equivalent detail).

Third, the SAM is considered to be flexible in the degree of disaggregation, whilst at the same time following a basic accounting framework (?, ?). The degree of disaggregation generally depends on the motivation behind constructing the SAM (e.g. depending on the location of the initial shock and the outcome variables) and more restrictively, the availability of data (?, ?).

The benefits arising from computing a SAM are multifold. The additional information contained in the SAM, compared to IO tables, can be used to extend and improve the multiplier modelling capacity to include the behaviour of the non-production part of the economy. In particular, the link between activity and changes in household income should improve the Type II multiplier.

Moreover, in contrast to national accounts, the SAM can incorporate a highly disaggregated social breakdown. This is particularly important as a large number of economic interactions happen within the household sector. That is, income from labour and the household sector can be further broken down to analyse distributional effects of policy more accurately (?, ?).

An important side-effect of the compilation process of a SAM is that data gaps and inconsistencies can be identified. This information can be used to improve and extend survey methodologies, definitions and classifications and overall compatibility of data sources (?, ?).

The main utility, however, of a SAM is that it provides a comprehensive and consistent record of the interrelationships of an economy at the level of individual production sectors, factors, and institutions. Thereby, the SAM makes available an internally consistent statistical foundation, or benchmark, for the creation of plausible economic models (e.g. Computable General Equilibrium models) which simulate changes to the economy (?, ?).

2.3 Social Accounting Matrix for Scotland

The main components of the SAM are the latest Scottish IO tables for Scotland (?, ?) and the IncExp account. More precisely, the 2009 Industry by Industry (IxI) table for Scotland at basic prices is used. The IxI table is a symmetric IO table with industries (104 industries at SIC07) as the dimension of both rows and columns. Thereby the IxI table records the destination of manufacturing industry outputs. The data on industry linkages can be used to analyse knock-on effects throughout the Scottish economy of a change of final demand (?, ?).

Table 2.3.1 depicts the final SAM that is derived by combining the IxI table and the IncExp account. For illustration several accounts have been aggregated. For example, the 104 industries contained in the SAM are aggregated to one industry (Activities). Thus, it must be emphasises that, for modelling purposes, a more detailed SAM is used.

As outlined previously, the 2009 SAM or Scotland is a square matrix with 7 column and 7 row accounts. The rows represent the flow of goods/factors in money terms, whilst the columns represent the flow of payments. The SAM records the expenditures down the columns and the receipts along the rows. The row sums in the SAM show the total receipts and the column sums show the total payments of funds. Each row sum equals its corresponding column sum. That is, the total revenue is equal total expenditure in each account. Each cell in the SAM represents a flow of funds from a column account to a row account, thereby documenting the interconnections between these accounts in an explicit way and identifying the source and use of all transactions.

Table 2.3.1: Aggregate 2009 SAM for Scotland (in £million)

	1. Activities (IOC1-104)	2. Households	3. Corporate	4. Government	5. Capital	6. Employment Income	7. Exports to RUK + ROW	Total (Receipts)
1. Activities (IOC1-104)	63,607	49,802	-	29,486	13,981	-	54,045	210,920
2. Households	-	-	15,104	25,124	-	63,561	4,088	107,877
3. Corporate	-	6,931	-	34,647	-	-	11,928	53,507
4. Government	43,221	27,947	5,248	16,861	1,495	-	20,363	115,136
5. Capital	-	5,070	24,826	119	-	-	-10,086	19,930
6. Employment Income	63,561	-	-	-	-	-	-	63,561
7. Imports from RUK + ROW	40,532	18,126	8,328	8,898	4,455	-	10,470	90,808
Total (Expenditures)	210,920	107,877	53,507	115,136	19,930	63,561	90,808	661,739

The first row of the SAM, for example, can be read as follows: raw material purchases of goods within Scotland (£63,607m), Household consumption expenditure on goods/services

(£49,802m), Government current expenditure (£29,486m), investment expenditure on Scottish goods (£13,981m), exports to RUK + ROW (£54,045m) and the total of £210,920m represents total aggregate demand of gross outputs.

Extending the IO table by incorporating the IncExp accounts yields a SAM with the following entries (the * indicated that entries, with the exception of the IncExp extension, were directly taken from the IO table):

- Activities are directly taken from the IO table and contains the 104 industries at SIC07. Activities show the destination of manufacturing industry outputs, including manufacturing products or other secondary products.
- Households are directly taken from the IO table* and is the sum of the Household account and the Non-Profit Institutions Serving Households (NPISHs) account in the IO table.
- Corporate is solely derived within the IncExp account, thereby providing a more complete record of the institutional account.
- Government is directly taken from the IO table* and is the sum of the Central and Local Government accounts in the IO table.
- Capital is directly taken from the IO table* from Gross fixed capital formation (GFCF).
- Employment income is taken directly from the IO table*.
- Exports/imports to and from RUK/ROW (including good / services and transfers) are directly taken from the IO table* RUK and ROW exports/imports entry.

Importantly, constructing the SAM by extending IO tables by means of an IncExp account does not require any rebalancing (e.g. total receipts per account match total expenditures). That is, the IO table is fully incorporated without the need of changing any entries thereof. All cells that were added to the IO table to compute the SAM are balanced within the IncExp account so that total revenue equal total expenditure in each account. This approach incorporates the IO tables at face value, assuming that the data therein are the best possible estimates of Scottish data. Each account in the Scottish SAM is balanced by their corresponding account. So for example, Government expenditures (£115,136m) are balanced by Government receipts (£115,136m).

It must be emphasised again that the SAM is meant to fit around the existing IO tables and other national statistics. Data necessary for the construction of the SAM that are not contained within the IO table are derived by computing the IncExp Accounts. These Accounts record income and expenditure of households, corporations, government, capital and the external sector in detail. The construction of the IncExp Accounts is outlined in the following section.

2.4 The Income and Expenditure Accounts for 2009

The Income and Expenditure Accounts provide a details on the flow of funds for the main three local transactors (Households, Corporations and Government) as well as for the Capital and External Accounts. The Accounts are compiled using publicly available data, including both UK and Scottish Government data as well as figures from the 2009 IO Tables for Scotland. The IncExp Accounts are internally consistent, which ensures that the SAM is automatically balanced. The above section outlined the role that the IncExp Accounts have in extending the IO Tables into a SAM for Scotland. This section provides an overview of how the IncExp Accounts are constructed and the following section gives a detailed breakdown of how each entry in the Accounts is calculated. First in this section, the layout of the Accounts is presented. Second, the data calculation and internal balancing is discussed. Third, the data sources used for the Accounts are

2.4.1 Layout

The IncExp Accounts (see Table 2.4.1) are divided into five different sectors (Households, Corporations, Government, Capital and External) and they also give the Scottish Trade amd External Balance with both RUK and ROW. Each of those sectors is divided further into an Income and an Expenditure part, hence the name for these Accounts. Each cell can be identified either through the name, e.g. Corporations > Income > Profit Income (OVA) or through the equivalent number code, 19 in this case. The latter method is used when cross-referencing in the detailed breakdown of the cells in the Methodology section (2.5).Every sector has a Total Income and a Total Expenditure Figure, which is a summation of the entries in each section (highlighted in bold). The Household and Government sector have additional Control Totals from external sources and therefore they are presented with two Totals. The Primary Sectors (Household, Corporations and Government) have a similar cell breakdown with Income/Payments to the other Primary Sectors as well as External Transfer payments making up the biggest share of entries. Additionally, all Primary Sectors have a Profit Income (OVA) entry and a Payments to Capital entry on the Income and on the Expenditure side, respectively. Cells with one star following the numerical entry refer to Balancing Items and those with two stars refer to Corresponding Figures. A detailed discussion of those entries can be found in Calculation Overview and Internal Balancing (2.4.2).

Table 2.4.1: Income-Expenditure Accounts for Scotland (in £million)

HOUSEHOLDS					
1. **Income**	**107877**		10. **Expenditure**	**107877**	
2. Income from Employment	63561		11. IO Expenditure	74138	
3. Profit Income (OVA)	5289		12. Payments to Corporations	6931	*
4. Income from Corporations	15104		13. Payments to Government	21379	
5. Income from Government	19835		14. Transfers to ROW	119	
6. Transfers from RUK	1852		15. Transfers to RUK	238	
7. Transfers from ROW	2237		16. Payments to Capital (Savings)	5070	
8. **Total Household Income**	**107877**		17. **Total Expenditure**	**107877**	
9. **Mixed and Prop Income Unalloc.**	0				
CORPORATIONS					
18. **Income**	**53507**		24. **Expenditure**	**53507**	
19. Profit Income (OVA)	29456		25. Payments to Households	15104	**
20. Income from Households	6931	**	26. Payments to Government	5248	
21. Income from Government	5191	**	27. Transfers to RUK	3768	
22. Income from RUK	5964		28. Transfers to ROW	4560	
23. Income from ROW	5964		29. Payments to Capital (Savings)	24826	*
GOVERNMENT					
30. **Income**	**63530**		37. **Expenditure**	**63530**	
31. Profit Income (OVA)	3697		38. IO Expenditure	30017	*
32. Net Commodity Taxes	13165		39. Payments to Corporations	5191	*
33. Income from Households	21379	**	40. Payments to Households	19835	**
34. Income from Corporations	5248	**	41. Transfers to RUK	8368	
35. Income from RUK	20041	*	42. Payments to Capital (Savings)	119	
36. **Total Govt Inc Balancing Total**	**63530**	**	43. **Total Govt Exp Balancing Total**	**63530**	
CAPITAL					
44. **Income**	**19930**		49. **Expenditure**	**19930**	
45. Households	5070	**	50. IO Expenditure	19930	
46. Corporations	24826	**			
47. Government	119	**			
48. RUK/ROW	-10086	**			
EXTERNAL					
51. RUK Income from Scotland	67133		58. RUK Expenditure in Scotland	70595	
52. Goods & Services	54759		59. Goods & Services	42739	
53. Transfers	12374		60. Transfers	27857	
54. RUK Income from Scotland	23676		61. ROW Expenditure in Scotland	27378	
55. Goods & Services	18997		62. Goods & Services	19178	
56. Transfers	4679		63. Transfers	8201	
			64. Tourist Expenditure in Scotland	2921	
57. **Total Income**	**90808**		65. **Total Expenditure**	**100894**	
			66. Surplus/Deficit	-10086	
G&S TRADE BALANCE					
Scotland with RUK and ROW			Total Balance of Payments		
67. RUK	-12020		69. RUK	5215	
68. ROW	181		70. ROW	4871	
			71. Total Balance of Payments	10086	
EXTERNAL BALANCE					
72. Income from Employment	-3462				
73. Profit Income (OVA)	-3703				
74. Income from Corporations	-2921				
75. Income from Government	-10086				
Balancing Item: *			Row Entries (Element determines Column)		
Corresponding Figure: **			Row Entries (Element determines Column)		

2.4.2 Calculation Overview and Internal Balancing

Most of the figures in the Accounts are calculated using either figures from the IO Tables or external sources. The references for each calculation are both in the Methodology Section (2.5) as well as within the SAM file. Most governmental data is issued in the financial year format, i.e. April of year one until end of March of year 2. In order to get data for the calendar year 2009, which is also the format of the IO Tables, a one-quarter share of the year one data is taken and a three-quarter share of year two (1/4*2008/09 + 3/4*2009/10). Using the updated 2006 SAM, the data sources for each IncExp Account entry are updated and when possible more accurate sources/figures are used in the calculation of the 2009 Accounts. Some cells, however, are not calculated using the above-mentioned sources. First, some cells are Balancing Items, denoted with one star (see Table 2.4.1). These entries are derived by taking the Totals of the relevant account and deducting the sum of all other entries, but the one marked as a Balancing Item. The reason for this methodology is two-fold. On the one hand, in order to balance the Total Income and the Total Expenditure of the Primary Sectors, at least one entry needs to absorb any deviation in the balance between income and expenditure. On the other hand, for some cells the data availability or quality is simply not there and thus those entries with the least robust data are chosen to be Balancing Items. The Balancing Items further ensure the internal consistency of the IncExp Accounts and therefore the SAM balances automatically once the IO Tables are extending through these Accounts. Second, there are cells denoted with two stars and these are the Corresponding Figures. Due to the assumption of the Circular Flow of the Economy, where the income that a receives from b is equal to the payment that b makes to a, some entries are equal to the figures derived for other cells. For example, the Payments to Government made by Corporations (cell 26) is equal to the Income from Corporations received by the Government. Further, all Income entries for the Capital Accounts are Corresponding Figures, as these are equal to the Payments to Capital entries by each of the Primary Sector as well as the net External balance (cell 66).

2.4.3 Data

The data used in the construction of the IncExp Accounts is all taken from either UK or Scottish Government sources and is publicly available. Figure 2.4.3 shows how much data is derived from the main data sources. For this, each component of the IncExp cells is deconstructed. For example, some cells use one figure from the IO Tables, one from GERS (Government Expenditure and Revenue Scotland) and one from the HM Treasury. This would give three separate sources which would be counted as individual entries and then the total of those entries' is used to calculate the shares allocated to each source of data origin. Note, that when data is given in financial year format, there are technically two entries from that source, which is then transformed into a calendar year entry, as outlined above. However, this is then taken as a single entry for the calculation of the shares here, as it would otherwise skew the percentages. As Figure 2.4.3 shows the three biggest sources for data used in the IncExp Acounts are GERS (30%), ONS (29%) and the 2009 IO Tables (24%). The figure highlights the large reliance on UK Government sources, which is over a third of all data entries. In order to transform this data for the Scottish IncExp Accounts, various shares are used [1]. There are three different shares, which are all close in total value, however, theoretical considerations favour different shares for certain data as is outlined here. First, the GDP share (8.22%) is used for example for Dividend Payments both Private and Public. Second, the population share (8.41%) applies to UK Government spending on behalf of the Scottish public, for instance. Third, the households share is used, for example, for RUK Transfer Payments to Scotland. Although the use of the shares transforms the data

[1] Shares are Scottish over total UK values

sufficiently for the calculation of the Accounts, improving the availability of Scottish data for all of income or expenditure in Scotland would result in more accurate figures for the IncExp Accounts and the 2009 SAM for Scotland. Nevertheless, the quality of the data used for the IncExp Accounts is of the highest quality, since it is taken from Scottish and UK governmental publications.

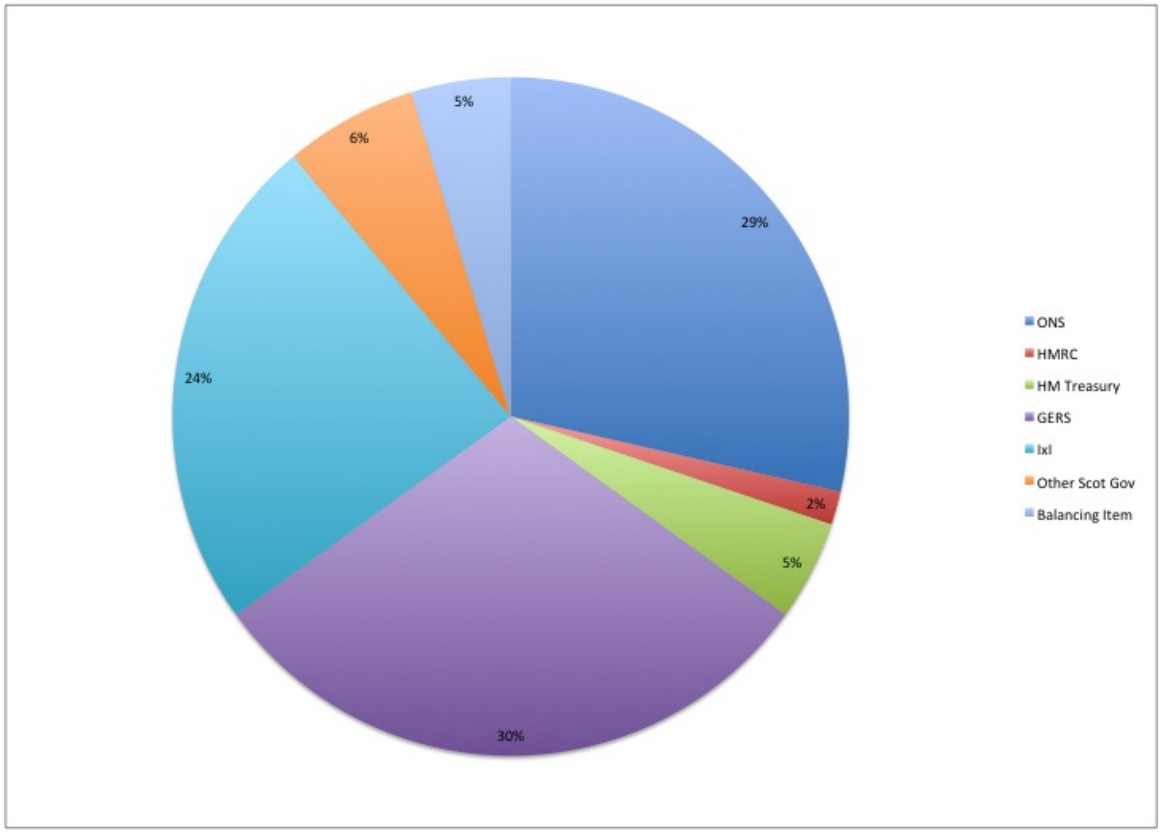

Figure 2.4.1: Percentage of data sources in Income and Expenditure Accounts

2.5 Income and Expenditure Accounts - Methodology

Households

1. **Income**

   The Household income entry is derived from the latest revised figures of Scottish Gross Disposable Household Income (GDHI) for 2009. This data is obtained for Scotland at NUTS2 level for 2009 covering the variables listed in Table 2.4.1. The total Household Income figure of £107,877m is obtained by summing up Operating surplus/Mixed income (£9,437m), Compensation of employees (£64,645m), Property income received minus paid (£8,485m - £551m), Imputed social contributions/Social benefits received (£23,559m), and Other current transfers received minus Other current transfers paid (£5,102m - £2,800m). [Source: ONS (2011b)]

$$\text{Income} = \text{Total Household Income}_{\text{GDHI}} \tag{2.5.1}$$

$$110677 = 110677$$

2. **Income from Employment**

   This is the "Total intermediate demand" || "Compensation of employees" from the IO Tables. [Source: Scottish Government (2013a)]

$$\text{Income from Employment} = \text{(Total Intermediate Demand}\|\text{Compensation of Employees)} \tag{2.5.2}$$

$$63561 = 63561$$

3. **Profit Income (OVA)**

   This entry requires that the Gross Operating Surplus for Scotland is identified. Yet, as shown in Table 2.4.1, data for Scotland is only available as an aggregate comprising of Operating surplus and Mixed income equal in total to £9,437m. Therefore, this figure has to be disaggregated to identify the Gross Operating Surplus component separately. This is estimated by using shares derived from 1999 GDHI data which reports these figures individually. There are no alternative datasets available that would allow for a better estimation of Scottish Gross Operating Surplus for 2009. [Source: ONS (2011b)]

$$\text{Profit Income} = \text{Gross Operating Surplus}_{\text{GDHI}} \tag{2.5.3}$$

$$5289 = 5289$$

4. **Income from Corporations**

This is calculated from three sources. First, taking the Capital Gains Tax receipts as presented in GERS and dividing it by the fixed 18% Capital Gains Tax Rate for 2008-10 gives an estimate of the actual monetary value of the capital gain received by Scottish households for 2009. Second, the total income received by households from corporations is added. This comprises multiplying the share of Scottish GDP, which is calculated using the ratio of total UK GDP at market prices over Scottish GDP at market prices, by the Total of UK Private DividendsâĂİ paid out by private non-financial corporations in the UK. In turn this figure is then multiplied by the average (figures are only available for 2008 and 2010) of an individualâĂŹs share of total equity on a UK basis, which is used to distinguish the dividend payments received by private shareholders versus, for example, funds. Further, the total income figure is comprised of adding an estimate of the âĂIJTotal Private PensionsâĂİ received by Scottish households to the above as well as householdâĂŹs âĂIJNet Other IncomeâĂİ from the GDHI. Third, the unallocated income from 10 is added in order to balance this part of the Accounts. [Source: Scottish Government (2013b); HMRC (2013); ONS (2011c); ONS (2012)]

$$\begin{aligned} &\text{Income from Corporations} = \\ &\text{Total Household Income from Corporations} \\ &+\text{Household Income from Capital Gains} \\ &+\text{Mixed and Prop Income Unallocated}_{\text{IncExp}} \end{aligned} \tag{2.5.4}$$

$$17904 = 15558 + 1478 + 869$$

---

where

$$\begin{aligned} &\text{Total Household Income from Corporations} = \\ &(\text{Scottish GDP Share} * \text{Total UK Private Dividend Payments}) \\ &*(\text{Individual Share of Total Equity} + \text{Total Private Pension} \\ &+\text{Net Other Income}) \end{aligned} \tag{2.5.5}$$

$$15558 = (8.22\% * 85816) * ((\frac{10.2\% + 11.5\%}{2}) + 9691 + 5102)$$

$$\begin{aligned} &\text{Household Income from Capital Gains} = \\ &(1/4 * \text{Households' Captial Gains Tax Payments}_{\text{08-09}} \\ &+3/4 * \text{Households' Captial Gains Tax Payments}_{\text{09-10}}) \\ &\div\text{Capital Gains Tax Rate} \end{aligned} \tag{2.5.6}$$

$$1478 = (1/4 * 572 + 3/4 * 164) \div 18\%$$

$$\begin{aligned}&\text{Mixed and Prop Income Unallocated} = \\ &(\text{Total Household Income}_{\text{GDHI}} - \text{Total Household Income}_{\text{IncExp}})\end{aligned} \tag{2.5.7}$$

$$869 = 110677 - 109808$$

5. **Income from Government**

The first part of this figure is the annualised âĂIJSocial Protection PaymentsâĂİ to Scottish households and the second one is the âĂIJPublic Dividend PaymentsâĂİ received by Scottish households. The latter is calculated in accordance with the methodology outlined above for âĂIJPrivate Dividend PaymentsâĂİ. The dividend payments are sourced from non-financial corporations, Central Government and Local Government accounts and are multiplied by the Scottish GDP share as well as the average individualâĂŹs share of total equity and further multiplied by the UK Public Dividend payments. [Source: Scottish Government (2013B); ONS (2011c)]

$$\begin{aligned}&\text{Income from Government} = \\ &(1/4 * \text{Total Social Protection}_{\text{08-09}} \\ &+3/4 * \text{Total Social Protection}_{\text{09-10}}) \\ &+(\text{Scottish GDP Share} \\ &*(\text{UK Public Dividends}_{\text{Non-Financial Corporations}} \\ &+\text{UK Public Dividends}_{\text{Central Government}} \\ &+\text{UK Public Dividends}_{\text{Local Government}}) \\ &*((\text{Individual's Share of Total Equity}_{2008} \\ &+\text{Individual's Share of Total Equity}_{2009}) \div 2))\end{aligned} \tag{2.5.8}$$

$$\begin{aligned}19835 = &(1/4 * 18653 + 3/4 * 20193) \\ &+(8.22\% * (25 + 2214 + 772) * ((10.2\% + 11.5\%) \div 2))\end{aligned}$$

6. **Transfers from RUK**

These transfers are calculated by first, taking the total figure of dividends paid to Scottish households. This figure is calculated by using the share of Scottish Households of total UK Households and multiplying it by âĂIJTotal RUK DividendsâĂİ paid to households. The latter figure is based on the average individualâĂŹs share of total equity multiplied by the difference between Total UK- and Total Scottish- private dividends in order to obtain the RUK dividend payments to Households in Scotland. Second, this is then added to the difference of the âĂIJCompensation of EmployeesâĂİ according to the GDHI estimates and the actual figure of income from employment as

calculated for the Income and Expenditure Account (see 2). [Source: ONS (2011c); ONS (2011a); ONS (2011b)]

$$\begin{aligned} \text{Transfers from RUK} = \\ \text{Total RUK Dividends to Scottish Households} \\ +(\text{Compensation of Employees}_{\text{GDHI}} \\ -\text{Income from Employment}_{\text{IncExp}}) \end{aligned} \tag{2.5.9}$$

$$1852 = 767 + (64645 - 63561)$$

---

where

$$\begin{aligned} \text{Total RUK Dividends to Scottish Households} = \\ \text{Scottish Household Share} * \text{Total RUK Dividends to Households} \end{aligned} \tag{2.5.10}$$

$$767 = 8.98\% * 8546$$

7. **Transfers from ROW**

   The first part of this figure is calculated by multiplying UK employment income from ROW with the OVA for Scotland (see below for breakdown of OVA and OVA repatriated calculations). Added to this is the Scottish share of UK GDP (as shown above) multiplied with the Scottish household share of OVA for UK property and entrepreneurial income and multiplied by the actual amount of the âĂIJUK Property and Entrepreneurial IncomeâĂİ. [Source: Scottish Government (2013a); ONS (2011c); Scottish Government (2013b)]

$$\begin{aligned} \text{Transfers from ROW} = \\ (\text{Scottish Share of UK Total OVA}* \\ \text{UK Employment Income from ROW}) \\ +(\text{Scottish Household OVA} * \text{Scottish GDP Share of UK} \\ *\text{UK Property and Entrepreneurial Income}) \end{aligned} \tag{2.5.11}$$

$$2237 = (143588.31\%) + (169313 * 15\% * 8.22\%)$$

8. **Total Household Income**

   Totals Figure: Summation of all of the above, excluding the total household income figure obtained from the GDHI (sum: 2 to 7).

$$\begin{aligned} \text{Total Household Income} = \\ (\text{Income from Employment}^{\text{Households}}_{\text{IncExp}} \\ +\text{Profit Income (OVA)}^{\text{Households}}_{\text{IncExp}} \\ +\text{Income from Corporations}^{\text{Households}}_{\text{IncExp}} \\ +\text{Income from Government}^{\text{Households}}_{\text{IncExp}} \\ +\text{Transfers from RUK}^{\text{Households}}_{\text{IncExp}} \\ +\text{Transfers from ROW}^{\text{Households}}_{\text{IncExp}}) \end{aligned} \tag{2.5.12}$$

$$110677 = 63561 + 5289 + 17904 + 19835 + 1852 + 2237$$

9. **Mixed and Prop Income Unallocated**

   Balancing item equal to the difference of Household Income as presented in the GDHI and the sum of all income figures derived above. This figure gets added into the Income from Corporations as outlined above and is thus zero, due to the two household income figures balancing now. [Source: IncExp Accounts; ONS (2011b)]

$$\begin{aligned} \text{Income Unallocated} = \\ \text{Income}^{\text{Households}}_{\text{IncExp}} \\ -\text{Income from Employment}^{\text{Households}}_{\text{IncExp}} \end{aligned} \tag{2.5.13}$$

$$869 = 110677 - 109808$$

10. **Expenditure**

Totals Figure: Summation of figures presented below, from IO Expenditure to Transfers to ROW (sum: 12 to 17).

$$\begin{aligned}\text{Expenditure} = \\ (&\text{IO Expenditure}^{\text{Households}}_{\text{IncExp}} \\ +&\text{Payments to Corporations}^{\text{Households}}_{\text{IncExp}} \\ +&\text{Payments to Government}^{\text{Households}}_{\text{IncExp}} \\ +&\text{Payments to Capital}^{\text{Households}}_{\text{IncExp}} \\ +&\text{Transfers from RUK}^{\text{Households}}_{\text{IncExp}} \\ +&\text{Transfers from ROW}^{\text{Households}}_{\text{IncExp}})\end{aligned} \tag{2.5.14}$$

$$110677 = 74138 + 9600 + 21379 + 5202 + 238 + 119$$

11. **IO Expenditure**

This cell is made up of âĂIJHouseholdsâĂİ and âĂIJNon-Profit Institutions Serving HouseholdsâĂİ (NPISHs) âĂŞ âĂIJTotal intermediate consumption at basic pricesâĂİ as well as âĂIJTaxes less subsidies on productsâĂİ for both sectors. [Source: Scottish Government (2013a)]

$$\begin{aligned}\text{IO Expenditure} = \\ &(\text{Final Cons. Expend.}_{\text{Households}} \| \text{Total Interm. Cons.}) \\ +&(\text{Final Cons. Expend.}_{\text{NPISH}} \| \text{Total Interm. Cons.}) \\ +&(\text{Final Cons. Expend.}_{\text{Households}} \| \text{Taxes less subsidies on products}) \\ +&(\text{Final Cons. Expend.}_{\text{NPISH}} \| \text{Taxes less subsidies on products})\end{aligned} \tag{2.5.15}$$

$$74138 = 64890 + 6568 + 26803 + 0$$

12. **Payments to Corporations**

Balancing Item: which takes the Total Expenditure and subtracts from it the IO Expenditure, Payments to Government, Payments to Capital, Transfers to RUK and Transfers to ROW (18 âĂŞ 12,15,16,17).

$$\begin{aligned}\text{Payments to Corporations} = \\ &\text{Total Expenditure}^{\text{Households}}_{\text{IncExp}} - \text{Transfers to ROW}^{\text{Households}}_{\text{IncExp}} \\ -&\text{Transfers to RUK}^{\text{Households}}_{\text{IncExp}} - \text{Payments to Capital}^{\text{Households}}_{\text{IncExp}} \\ -&\text{Payments to Government}^{\text{Households}}_{\text{IncExp}} - \text{IO Expenditure}^{\text{Households}}_{\text{IncExp}}\end{aligned} \tag{2.5.16}$$

$$9600 = 110677 - 119 - 238 - 5202 - 21379 - 74138$$

13. **Payments to Government**

This refers to the annualised tax payments by Scottish households. These taxes are: Income Tax, Capital Gains Tax, Inheritance Tax, Stamp Duties, Half Insurance Premium Tax, Council Tax and Social Security Contributions (NI). [Source: Scottish Government (2013b)]

$$\begin{aligned}\text{Payments to Government} = \\ (1/4 * (\text{Income Tax}_{\text{08-09}} + \text{Capital Gains Tax}_{\text{08-09}} \\ +(\text{Inheritance Tax}_{\text{08-09}} + \text{Stamp Duties}_{\text{08-09}} \\ +(\text{Half Insurance Premium Tax}_{\text{08-09}} + \text{Council Tax}_{\text{08-09}} \\ +(\text{Social Security Contributions}_{\text{08-09}})) \\ +(3/4 * (\text{Income Tax}_{\text{09-10}} + \text{Capital Gains Tax}_{\text{09-10}} \\ +(\text{Inheritance Tax}_{\text{09-10}} + \text{Stamp Duties}_{\text{09-10}} \\ +(\text{Half Insurance Premium Tax}_{\text{09-10}} + \text{Council Tax}_{\text{09-10}} \\ +(\text{Social Security Contributions}_{\text{09-10}}))\end{aligned} \tag{2.5.17}$$

$$\begin{aligned}21379 = (1/4 * (10642 + 572 + 178 + 594 + 96 + 1960 + 7992)) \\ +(3/4 * (10364 + 164 + 146 + 516 + 95 + 1961 + 7915))\end{aligned}$$

14. **Transfers to RUK**

The value of Transfers to ROW (17) is multiplied by two.

$$\begin{aligned}\text{Transfers to RUK} = \\ \text{Transfers to ROW}_{\text{IncExp}}^{\text{Households}} * 2\end{aligned} \tag{2.5.18}$$

$$238 = 119 * 2$$

15. **Transfers to ROW**

This figure is made up of the amount of employee compensation that is paid to the ROW, i.e. the part that is deducted from GDP in order to arrive at GNP figures, times the share of Scottish OVA of Corporate Income (8). [Source: ONS (2011c)]

$$\text{Transfers to ROW} = \text{UK Payments to ROW} * \text{Scottish Corporate Income OVA} \tag{2.5.19}$$

$$119 = 1435 * 8.31\%$$

16. **Payments to Capital (Savings)**

    The Total Expenditure (18) is multiplied by the Household Saving rate as given by SNAP, in order to obtain an estimate for this cell. [Source: Scottish Government (2013c)]

$$\text{Payments to Capital} = \text{Total Household Income}^{\text{Households}}_{\text{IncExp}} + \text{Household Savings Rate}_{\text{SNAP}} \tag{2.5.20}$$

$$5202 = 110677 * 0.047$$

17. **Total Expenditure**

    Corresponding Figure: Equal to the Total Household Income (9).

$$\text{Total Expenditure} = \text{Total Household Income}^{\text{Households}}_{\text{IncExp}} \tag{2.5.21}$$

$$110677 = 110677$$

Corporations

18. **Income**

Totals Figure: Equal to all of the items below in this section (20 to 24).

$$\begin{aligned}\text{Income} = \\ \\ &\text{Profit Income}^{\text{Corporations}}_{\text{IncExp}} \\ +&\text{Income from Households}^{\text{Corporations}}_{\text{IncExp}} \\ +&\text{Income from Government}^{\text{Corporations}}_{\text{IncExp}} \\ +&\text{Income from RUK}^{\text{Corporations}}_{\text{IncExp}} \\ +&\text{Income from ROW}^{\text{Corporations}}_{\text{IncExp}}\end{aligned} \tag{2.5.22}$$

$$56175 = 29456 + 9600 + 5191 + 5964 + 5964$$

19. **Profit Income (OVA)**

Taking the âĂIJTotal Intermediate DemandâĂİ âĂŞ âĂIJGross Operating SurplusâĂİ, the OVA of both Households and Government (3 and 32) are deducted from it from it. [Source: Scottish Government (2013a); ONS (2011b)]

$$\begin{aligned}\text{Profit Income} = \\ \\ &\text{Total Intermediate Demand}\|\text{Gross Operating Surplus} \\ -&\text{Profit Income}^{\text{Households}}_{\text{IncExp}} - \text{Profit Income}^{\text{Government}}_{\text{IncExp}}\end{aligned} \tag{2.5.23}$$

$$29456 = 38441 - 5289 - 3697$$

20. **Income from Households**

Corresponding Figure: Equal to Payments to Corporations under Household Expenditure (13).

$$\begin{aligned}\text{Income from Households} = \\ \\ \text{Payments to Corporations}^{\text{Households}}_{\text{IncExp}}\end{aligned} \tag{2.5.24}$$

$$9600 = 9600$$

21. **Income from Government**

Corresponding Figure: Equal to Payments to Corporations under Government Expenditure (40).

$$\begin{gathered}\text{Income from Government} = \\ \text{Payments to Corporations}_{\text{IncExp}}^{\text{Government}}\end{gathered} \tag{2.5.25}$$

$$5191 = 5191$$

22. **Income from RUK**

Using the Scottish share of UK property and entrepreneurial income (see 8), it is multiplied by the corporate share of OVA. One half of this figure is used for this cell and the other for the one below (24). [Source: ONS (2011c)]

$$\begin{gathered}\text{Income from RUK} = \\ 1/2 * \text{Corporate OVA Share} \\ *\text{Scottish Share of UK Property and Entrepreneurial Income}\end{gathered} \tag{2.5.26}$$

$$5964 = 84.8\% * 14070 * 1/2$$

23. **Income from ROW**

Other half of figure calculated in first part of 23.

$$\begin{gathered}\text{Income from RUK} = \\ 1/2 * \text{Corporate OVA Share} \\ *\text{Scottish Share of UK Property and Entrepreneurial Income}\end{gathered} \tag{2.5.27}$$

$$5964 = 84.8\% * 14070 * 1/2$$

24. **Expenditure**

Totals Figure: cells below (26 to 30).

$$\begin{aligned}\text{Expenditure} = \\ \\ \text{Payments to Households}^{\text{Corporations}}_{\text{IncExp}} \\ +\text{Payments to Government}^{\text{Corporations}}_{\text{IncExp}} \\ +\text{Transfers to RUK}^{\text{Corporations}}_{\text{IncExp}} \\ +\text{Transfers to ROW}^{\text{Corporations}}_{\text{IncExp}} \\ +\text{Payments to Capital}^{\text{Corporations}}_{\text{IncExp}} \\ \\ 56175 = 17904 + 5248 + 3768 + 4560 + 24695\end{aligned} \tag{2.5.28}$$

25. **Payments to Households**

Corresponding Figure: Equal to Household Income from Corporations (4).

$$\begin{aligned}\text{Payments to Households} = \\ \\ \text{Income from Corporations}^{\text{Households}}_{\text{IncExp}} \\ \\ 17904 = 17904\end{aligned} \tag{2.5.29}$$

26. **Payments to Government**

These are the annualised corporate taxes: Corporation Tax, (Windfall Tax) Half Insurance Premium Tax, Landfill Tax, Non-Domestic Rates, Other Taxes and Royalties, Interest and Dividends [Source: Scottish Government (2013b)]

$$\begin{aligned}\text{Payments to Government} = \\ \\ (1/4 * (\text{Corporation Tax}_{\text{08-09}} + \text{Half Insurance Premium Tax}_{\text{08-09}} \\ +(\text{Landfill Tax}_{\text{08-09}} + \text{Non-Domestic Rates}_{\text{08-09}} \\ +(\text{Other Taxes and Royalties}_{\text{08-09}} + \text{Interest and Dividends}_{\text{08-09}} \\ +(3/4 * (\text{Corporation Tax}_{\text{09-10}} + \text{Half Insurance Premium Tax}_{\text{09-10}} \\ +(\text{Landfill Tax}_{\text{09-10}} + \text{Non-Domestic Rates}_{\text{09-10}} \\ +(\text{Other Taxes and Royalties}_{\text{09-10}} + \text{Interest and Dividends}_{\text{09-10}} \\ \\ 5248 = (1/4 * (2841 + 96 + 82 + 1736 + 250 + 608)) \\ +(3/4(2680 + 95 + 85 + 1822 + 212 + 233))\end{aligned} \tag{2.5.30}$$

27. **Transfers to RUK**

Equal to OVA repatriated to RUK (see 8). [Source: Scottish Government (2012)]

$$\begin{aligned} &\text{Transfers to RUK} = \\ &\text{Share of OVA Repatriated to RUK} * \text{Profit Income}_{\text{IncExp}}^{\text{Corporations}} \end{aligned} \tag{2.5.31}$$

$$3768 = 13\%829456$$

28. **Transfers to ROW**

Equal to OVA repatriated to ROW (see 8). [Source: Scottish Government (2012)]

$$\begin{aligned} &\text{Transfers to ROW} = \\ &\text{Share of OVA Repatriated to ROW} * \text{Profit Income}_{\text{IncExp}}^{\text{Corporations}} \end{aligned} \tag{2.5.32}$$

$$4560 = 15\% * 829456$$

29. **Payments to Capital (Savings)**

Balancing Item: This figure is derived by summing up the âĂIJGross Fixed Capital FormationâĂİ (GFCF) for all Public Sectors in the IO Tables and then deducting the sum of the âĂIJTaxes less subsidies on productionâĂİ for these sectors. The Public Sectors are: Water and Sewerage, Public Administration and Defence, Education, Health, Residential Care and Social Work. [Source: Scottish Government (2013a)]

$$\begin{aligned} &\text{Payments to Capital} = \\ &\text{Income}_{\text{IncExp}}^{\text{Corporations}} \\ &-\text{Payments to Households}_{\text{IncExp}}^{\text{Corporations}} \\ &-\text{Payments to Government}_{\text{IncExp}}^{\text{Corporations}} \\ &-\text{Transfers to RUK}_{\text{IncExp}}^{\text{Corporations}} \\ &-\text{Transfers to ROW}_{\text{IncExp}}^{\text{Corporations}} \end{aligned} \tag{2.5.33}$$

$$24695 = 56175 - 17904 - 5248 - 3768 - 4560$$

Government

30. **Income**

Totals Figure: Sum of cells below (32 to 36).

$$\begin{aligned}\text{Income} = \\ \\ &\text{Profit Income}^{\text{Government}}_{\text{IncExp}} \\ &+\text{Net Commodity Tax}^{\text{Government}}_{\text{IncExp}} \\ &+\text{Income from Households}^{\text{Government}}_{\text{IncExp}} \\ &+\text{Income from Corporations}^{\text{Government}}_{\text{IncExp}}\end{aligned} \tag{2.5.34}$$

$$63530 = 3697 + 13165 + 21379 + 5248 + 10041$$

31. **Profit Income (OVA)**

Equal to âĂIJTaxes less subsidies on productionâĂİ for all public sectors (see 30). [Source: Scottish Government (2013a)]

$$\begin{aligned}\text{Profit Income} = \\ \\ &\text{Water and Sewerage}\|\text{Gross Operating Surplus} \\ &+\text{Public Administration and Defence}\|\text{Gross Operating Surplus} \\ &+\text{Education}\|\text{Gross Operating Surplus} \\ &+\text{Health}\|\text{Gross Operating Surplus} \\ &+\text{Residential Care}\|\text{Gross Operating Surplus} \\ &+\text{Social Work}\|\text{Gross Operating Surplus}\end{aligned} \tag{2.5.35}$$

$$3697 = 710 + 865 + 463 + 817 + 590 + 253$$

32. **Net Commodity Taxes**

This cell is the sum of âĂIJTotal Intermediate DemandâĂİ âĂŞ âĂIJTaxes less subsidies on productionâĂİ and âĂIJTotal Demand for ProductsâĂİ âĂŞ âĂIJTaxes less subsidies on productsâĂİ. [Source: Scottish Government (2013a)]

$$\begin{aligned}\text{Net Commodity Taxes} = \\ \\ &\text{Total Intermediate Demand}\|\text{Taxes less Subsidies on Production} \\ &+\text{Total Demand for Products}\|\text{Taxes less Subsidies on Products}\end{aligned} \tag{2.5.36}$$

$$13165 = 1232 + 11933$$

33. **Income from Households**

Corresponding Figure: Equal to Payments to Government under Household Expenditure (14).

$$\begin{gathered}\text{Income from Households} = \\ \text{Payments to Government}_{\text{IncExp}}^{\text{Households}}\end{gathered} \tag{2.5.37}$$

$$21379 = 21379$$

34. **Income from Corporations**

Corresponding Figure: Equal to Payments to Government under Corporations Expenditure (27).

$$\begin{gathered}\text{Income from Coporations} = \\ \text{Payments to Government}_{\text{IncExp}}^{\text{Corporations}}\end{gathered} \tag{2.5.38}$$

$$5248 = 5248$$

35. **Income from RUK**

Balancing Item: Total Gov. Income Balancing Total (37) minus the sum of Profit Income, Net Commodity Taxes, Income from Households and Income from Corporations (32 to 35).

$$\begin{aligned}\text{Income from RUK} = \\ \text{Total Government Income Balancing} \\ -\text{Profit Income}_{\text{IncExp}}^{\text{Government}} \\ -\text{Net Commodity Taxes}_{\text{IncExp}}^{\text{Government}} \\ -\text{Income from Households}_{\text{IncExp}}^{\text{Government}} \\ -\text{Income from Corporations}_{\text{IncExp}}^{\text{Government}}\end{aligned} \tag{2.5.39}$$

$$20041 = 63530 - 3697 - 13165 - 21379 - 5248$$

36. **Total Government Income Balancing Total**

Corresponding Figure: Equal to Total Government Expenditure Balancing Total (44).

$$\text{Total Government Income} = \text{Total Government Expenditure Balancing Total}^{\text{Government}}_{\text{IncExp}} \tag{2.5.40}$$

$$63530 = 63530$$

37. **Expenditure**

Totals Figure: Summation for cells below (39 to 43).

$$\begin{aligned}\text{Expenditure} = & \\ & \text{IO Expenditure}^{\text{Government}}_{\text{IncExp}} \\ & +\text{Payments to Corporations}^{\text{Government}}_{\text{IncExp}} \\ & +\text{Payments to Households}^{\text{Government}}_{\text{IncExp}} \\ & +\text{Transfers to RUK}^{\text{Government}}_{\text{IncExp}} \\ & +\text{Payments to Capital}^{\text{Government}}_{\text{IncExp}}\end{aligned} \tag{2.5.41}$$

$$63530 = 30017 + 5191 + 19835 + 8368 + 119$$

38. **IO Expenditure**

This is the âĂIJCentral GovernmentâĂİ and âĂIJLocal GovernmentsâĂİ âĂŞ âĂIJTotal intermediate consumption at basic pricesâĂİ. [Source: Scottish Government (2013a)]

$$\begin{aligned}\text{IO Expenditure} = & \\ & \text{Central Government}\|\text{Total Intermediate Consumption at basic Prices} \\ & +\text{Local Government}\|\text{Total Intermediate Consumption at basic Prices}\end{aligned} \tag{2.5.42}$$

$$30017 = 19462 + 10555$$

39. **Payments to Corporations**

Balancing Item: Total Government Expenditure Balancing Total (44) minus IO Expenditure, Payments to Households, Transfers to RUK and Payments to Capital (Savings) (39, 41, 42, 43).

$$\begin{aligned}\text{Payments to Corporations} = & \\ & \text{Total Government Expenditure Balancing Total}^{\text{Government}}_{\text{IncExp}} \\ & -\text{IO Expenditure}^{\text{Government}}_{\text{IncExp}} \\ & +\text{Payments to Households}^{\text{Government}}_{\text{IncExp}} \\ & +\text{Transfers to RUK}^{\text{Government}}_{\text{IncExp}} \\ & +\text{Payments to Capital}^{\text{Government}}_{\text{IncExp}}\end{aligned} \tag{2.5.43}$$

$$5191 = 63530 - 30017 - 19835 - 8368 - 119$$

40. **Payments to Households**

Corresponding Figure: Income from Government from the Household Income Accounts (5).

$$\begin{gathered}\text{Payments to Households} = \\ \text{Income from Government}_{\text{IncExp}}^{\text{Households}}\end{gathered} \tag{2.5.44}$$

$$19835 = 19835$$

41. **Transfers to RUK**

This is the annualised estimated non-identifiable Government Expenditure, which is based on the Scottish population share of the UK Total non-identifiable public spending. [Source: Scottish Government (2013b)]

$$\begin{gathered}\text{Transfers to RUK} = \\ 1/4 * \text{Estimated Non-Identifiable Expenditure}_{\text{08-09}} \\ +3/4\text{Estimated Non-Identifiable Expenditure}_{\text{09-10}}\end{gathered} \tag{2.5.45}$$

$$8368 = 1/4 * 8174 + 3/4 * 8432$$

42. **Payments to Capital (Savings)**

This is the sum of âĂIJGross Fixes Capital FormationâĂİ for all Public Sectors, which is then subtracted by âĂIJTaxes less subsidies on productionâĂİ for these sectors. [Source: Scottish Government (2013a)]

$$
\begin{aligned}
&\text{Payments to Capital} = \\
&\\
&(\text{Gross Fixed Capital Formation}\|\text{Water and Sewerage} \\
&+\text{Gross Fixed Capital Formation}\|\text{Public Administration and Defence} \\
&+\text{Gross Fixed Capital Formation}\|\text{Education} \\
&+\text{Gross Fixed Capital Formation}\|\text{Health} \\
&+\text{Gross Fixed Capital Formation}\|\text{Residential Care} \\
&+\text{Gross Fixed Capital Formation}\|\text{Social Work}) \\
&-(\text{Water and Sewerage}\|\text{Taxes less Subsidies on Production} \\
&+\text{Public Administration and Defence}\|\text{Taxes less Subsidies on Production} \\
&+\text{Education}\|\text{Taxes less Subsidies on Production} \\
&+\text{Health}\|\text{Taxes less Subsidies on Production} \\
&+\text{Residential Care}\|\text{Taxes less Subsidies on Production} \\
&+\text{Social Work}\|\text{Taxes less Subsidies on Production})
\end{aligned}
\tag{2.5.46}
$$

$$
\begin{aligned}
119 &= (1 + 174 + 7 + 0 + 0 + 1) \\
&-(28 + 0 + 18 + 11 + 3 + 4)
\end{aligned}
$$

43. **Total Government Expenditure Balancing Total**

This is the annualised âĂIJTotal Identifiable ExpenditureâĂİ of the Scottish Government plus the non-identifiable estimate (see 42). Then, the annualised âĂIJTotal managed expenditureâĂİ, âĂIJTotal IdentifiableâĂİ- and âĂIJTotal non-identifiable ExpenditureâĂİ of the UK is multiplied by the Scottish population share of the UK Total population and then taken off the two former sums of Public Sector spending in Scotland. [Source: HM Treasury (2012); ONS (2011a)]

$$
\begin{aligned}
&\text{Total Government Expenditure} = \\
&\\
&(1/4 * \text{Total Identifiable Expenditure}_{08-09} \\
&+3/4 * \text{Total Identifiable Expenditure}_{09-10}) \\
&+(1/4 * \text{Total Non-Identifiable Expenditure}_{08-09} \\
&+3/4 * \text{Total Non-Identifiable Expenditure}_{09-10}) \\
&(1/4 * \text{Scot. Pop. Share} * (\text{Total Man. Exp.}^{UK}_{08-09} \\
&-\text{Total Ident. Exp.}^{UK}_{08-09} \\
&-\text{Total Man. Non-Ident.}^{UK}_{08-09})) \\
&(1/4 * \text{Scot. Pop. Share} * (\text{Total Man. Exp.}^{UK}_{09-10} \\
&-\text{Total Ident. Exp.}^{UK}_{09-10} \\
&-\text{Total Man. Non-Ident.}^{UK}_{09-10}))
\end{aligned}
\tag{2.5.47}
$$

$$\begin{aligned} 63530 = (1/4 * (50779 + 8174)) + (3/4 * (53617 + 8432)) \\ +(1/4 * 8.41\% * (629745 - 515734 - 87697)) \\ +(3/4 * 8.41\% * (670150 - 559134 - 84021)) \end{aligned}$$

Capital

44. **Income**

Totals Figure: Sum of cells below (46 to 49).

$$\begin{aligned}\text{Income} = \\ \\ \text{Households}^{\text{Capital}}_{\text{IncExp}} \\ +\text{Corporations}^{\text{Capital}}_{\text{IncExp}} \\ +\text{Government}^{\text{Capital}}_{\text{IncExp}} \\ +\text{RUK/ROW}^{\text{Capital}}_{\text{IncExp}}\end{aligned} \tag{2.5.48}$$

$$19930 = 5202 + 24695 + 119 + (-10086)$$

45. **Households)**

Corresponding Figure: Payments to Capital of the Household Expenditure Account (15).

$$\begin{aligned}\text{Households} = \\ \\ \text{Payments to Capital}^{\text{Households}}_{\text{IncExp}}\end{aligned} \tag{2.5.49}$$

$$5202 = 5202$$

46. **Corporate**

Corresponding Figure: Payments to Capital (savings) of the Corporation Expenditure Account (30).

$$\begin{aligned}\text{Corporate} = \\ \\ \text{Payments to Capital}^{\text{Corporations}}_{\text{IncExp}}\end{aligned} \tag{2.5.50}$$

$$24695 = 24695$$

47. **Government**

Corresponding Figure: Payments to Capital (savings) of the Government Expenditure Account (43).

$$\begin{aligned} &\text{Government} = \\ &\text{Payments to Capital}^{\text{Government}}_{\text{IncExp}} \\ &119 = 119 \end{aligned} \tag{2.5.51}$$

48. **RUK/ROW**

Corresponding Figure: Surplus/Deficit of the External Expenditure Account (67).

$$\begin{aligned} &\text{RUK/ROW} = \\ &\text{Total Income}^{\text{External}}_{\text{IncExp}} \\ &-\text{Total Expenditure}^{\text{External}}_{\text{IncExp}} \\ &-10086 = 90808 - 100894 \end{aligned} \tag{2.5.52}$$

49. **Expenditure**

Corresponding Figure: IO Expenditure (51).

$$\text{Expenditure} = \text{IO Expenditure}^{\text{Capital}}_{\text{IncExp}} \tag{2.5.53}$$

$$19930 = 19930$$

50. **IO Expenditure**

This is the sum of âĂIJTotal Gross Capital FormationâĂİ âĂŞ âĂIJTotal intermediate consumption at basic pricesâĂİ and âĂIJTotal Gross Capital FormationâĂİ âĂŞ âĂIJTaxes less subsidies on productsâĂİ. [Source: Scottish Government (2013a)]

$$\begin{aligned}\text{IO Expenditure} = {} & \text{Total Gross Capital Formation}\|\text{Total Interm. Consumption at Basic Prices} \\ & + \text{Total Gross Capital Formation}\|\text{Taxes Less Subsidies on Products}\end{aligned} \tag{2.5.54}$$

$$19930 = 18453 + 1495$$

External

51. **UK Income from Scotland**

Totals Figure: This is the sum of the two cells below: Goods & Services and Transfers (53 & 54).

$$\begin{aligned} &\text{UK Income from Scotland} = \\ &\text{Goods \& Services}^{\text{External}}_{\text{IncExp}} \\ &+\text{Transfers}^{\text{External}}_{\text{IncExp}} \end{aligned} \tag{2.5.55}$$

$$67133 = 54759 + 12374$$

52. **Goods & Services**

This is the âĂIJTotal Demand for ProductsâĂİ from RUK. [Source: Scottish Government (2013a)]

$$\begin{aligned} &\text{Goods \& Services} = \\ &\text{Total Demand for Products}\|\text{Imports from Rest of UK} \end{aligned} \tag{2.5.56}$$

$$54759 = 54759$$

53. **Transfers**

This is the sum of: âĂIJTransfers to RUKâĂİ from the Household Expenditure Account, âĂIJTransfers to RUKâĂİ from the Corporations Expenditure Account and the âĂIJTransfers to RUKâĂİ from the Government Expenditure Account (6, 23, 36).

$$\begin{aligned} &\text{Transfers} = \\ &\text{UK Income from Scotland} = \\ &\text{Transfers to RUK}^{\text{Households}}_{\text{IncExp}} \\ &+\text{Transfers to RUK}^{\text{Corporations}}_{\text{IncExp}} \\ &+\text{Transfers to RUK}^{\text{Government}}_{\text{IncExp}} \end{aligned} \tag{2.5.57}$$

$$12374 = 238 + 3768 + 8368$$

54. **ROW Income from Scotland**

Totals Figure: This is the sum of the two cells below: Goods & Services and Transfers (56 & 57).

$$\begin{aligned} &\text{ROW Income from Scotland} = \\ &\text{Goods \& Services}^{\text{External}}_{\text{IncExp}} \\ &+\text{Transfers}^{\text{External}}_{\text{IncExp}} \end{aligned} \tag{2.5.58}$$

$$23676 = 18997 + 4697$$

55. **Goods & Services**

This is the âĂIJTotal Demand for ProductsâĂİ âĂŞ âĂIJROWâĂİ. [Source: Scottish Government (2013a)]

$$\begin{aligned} &\text{Goods \& Services} = \\ &\text{Total Demand for Products} \| \text{Imports from ROW} \end{aligned} \tag{2.5.59}$$

$$18997 = 18997$$

56. **Transfers**

This is the sum of: âĂIJTransfers to ROWâĂİ from the Household Expenditure Account and âĂIJTransfers to ROWâĂİ from the Corporations Expenditure Account (7 & 24).

$$\begin{aligned} &\text{Transfers} = \\ &\text{Transfers to ROW}^{\text{Households}}_{\text{IncExp}} \\ &+\text{Transfers to RUK}^{\text{Corporations}}_{\text{IncExp}} \end{aligned} \tag{2.5.60}$$

$$4679 = 119 + 4560$$

57. **Total Income**

Totals Figure: This is the sum of the two cells above: âĂIJUK income from ScotlandâĂİ and âĂIJROW income from ScotlandâĂİ (52 & 55).

$$\begin{aligned} \text{Total Income} = & \\ & \\ \text{UK Income from Scotland}^{\text{External}}_{\text{IncExp}} & \\ +\text{ROW Income from Scotland}^{\text{External}}_{\text{IncExp}} & \end{aligned} \tag{2.5.61}$$

$$90808 = 67133 + 23676$$

58. **UK Expenditure in Scotland**

Totals Figure: This is the sum of the two cells below: Goods & Services and Transfers (60 & 61).

$$\begin{aligned} &\text{UK Expenditure in Scotland} = \\ &\text{Goods \& Services}^{\text{External}}_{\text{IncExp}} \\ &+\text{Transfers}^{\text{External}}_{\text{IncExp}} \end{aligned} \tag{2.5.62}$$

$$70595 = 42739 + 27857$$

59. **Goods & Services**

This is the âĂIJTotal intermediate consumption at basic pricesâĂİ âĂŞ âĂIJRest of UK exportsâĂİ. [Source: Scottish Government (2013a)]

$$\begin{aligned} &\text{Goods \& Services} = \\ &\text{Rest of UK Exports}\|\text{Total Interm. Consumption at Basic Prices} \end{aligned} \tag{2.5.63}$$

$$42759 = 42759$$

60. **Transfers**

This is the sum of: âĂIJTransfers from RUKâĂİ from the Household Income Account, âĂIJIncome from RUKâĂİ from the Corporations Income Account and âĂIJIncome from RUKâĂİ from the Government Income Account (16, 28, 42).

$$\begin{aligned} &\text{Transfers} = \\ &\text{Transfers from RUK}^{\text{Households}}_{\text{IncExp}} \\ &+\text{Income from RUK}^{\text{Corporations}}_{\text{IncExp}} \\ &+\text{Income from RUK}^{\text{Government}}_{\text{IncExp}} \end{aligned} \tag{2.5.64}$$

$$27857 = 1852 + 5964 + 20041$$

61. **ROW Expenditure in Scotland**

Totals Figure: This is the sum of the two cells below: Goods & Services and Transfers.

$$\begin{aligned} &\text{ROW Expenditure in Scotland} = \\ &\text{Goods \& Services}^{\text{External}}_{\text{IncExp}} \\ &+\text{Transfers}^{\text{External}}_{\text{IncExp}} \end{aligned} \tag{2.5.65}$$

$$27378 = 19178 + 8201$$

62. **Goods & Services**

This is the âĂIJTotal intermediate consumption at basic pricesâĂİ âĂŞ âĂIJRest of world exportsâĂİ. [Source: Scottish Government (2013a)]

$$\begin{aligned} &\text{Goods \& Services} = \\ &\text{Rest of World Exports} \| \text{Total Interm. Consumption at Basic Prices} \end{aligned} \tag{2.5.66}$$

$$19178 = 19178$$

63. **Transfers**

This is the sum of: âĂIJTransfers from ROWâĂİ from the Household Income Account and âĂIJIncome from ROWâĂİ from the Corporations Income Account (17 & 29).

$$\begin{aligned} &\text{Transfers} = \\ &\text{Transfers from ROW} + \text{Income from ROW} \end{aligned} \tag{2.5.67}$$

$$8201 = 2237 + 5964$$

64. **Tourist Expenditure in Scotland**

This is the sum of the âĂIJNon-resident household expenditure in ScotlandâĂİ (under âĂIJFinal consumption expenditureâĂİ) - âĂIJTotal intermediate consumption at basic pricesâĂİ and âĂIJTaxes less subsidies on productsâĂİ. [Source: Scottish Government (2013a)]

$$\begin{aligned}
&\text{Tourist Expenditure in Scotland} = \\
&\\
&\text{Final Consumption Expenditure Non-Resident} \\
&\text{Household Expenditure in Scotland} \\
&\|\text{Total Interm. Consumption at Basic Prices} \\
&\text{Final Consumption Expenditure Non-Resident} \\
&\text{Household Expenditure in Scotland} \\
&\|\text{Taxes Less Subsidies on Products} \\
&\\
&2921 = 2599 + 322
\end{aligned} \tag{2.5.68}$$

65. **Total Expenditure**

This is the sum of the above cells: âĂIJUK expenditure in ScotlandâĂİ, âĂIJROW expenditure in ScotlandâĂİ and âĂIJTourist expenditure in ScotlandâĂİ.

$$\begin{aligned}
&\text{Total Expenditure} = \\
&\\
&\text{UK Expenditure in Scotland}^{\text{External}}_{\text{IncExp}} \\
&+\text{ROW Expenditure in Scotland}^{\text{External}}_{\text{IncExp}} \\
&+\text{Tourist Expenditure in Scotland}^{\text{External}}_{\text{IncExp}} \\
&\\
&100894 = 70595 + 27378 + 2921
\end{aligned} \tag{2.5.69}$$

66. **Surplus/Deficit**

This is the balance of the External AccountsâĂŹ âĂIJTotal incomeâĂİ minus âĂIJTotal expenditureâĂİ (58 - 66).

$$\begin{aligned}
&\text{Surplus/Deficit} = \\
&\\
&\text{Total Income}^{\text{External}}_{\text{IncExp}} \\
&-\text{Total Expenditure}^{\text{External}}_{\text{IncExp}} \\
&\\
&-10086 = 90808 - 100894
\end{aligned} \tag{2.5.70}$$

Goods and Services Trade Balance

67. **RUK**

This is the balance of the âĂIJGoods and ServicesâĂİ of âĂIJUK expenditure in ScotlandâĂİ minus those of âĂIJUK income from ScotlandâĂİ (60 - 52).

$$\begin{gathered}\text{Goods \& Services Trade Balance with RUK} = \\ \text{RUK Goods \& Services Expenditure in Scotland}^{\text{External}}_{\text{IncExp}} \\ -\text{RUK Goods \& Services Income from Scotland}^{\text{External}}_{\text{IncExp}} \\ -12020 = 42739 - 54759\end{gathered} \tag{2.5.71}$$

68. **ROW**

This is the balance of the âĂIJGoods and ServicesâĂİ of âĂIJROW expenditure in ScotlandâĂİ minus those of âĂIJROW income from ScotlandâĂİ (63 - 56).

$$\begin{gathered}\text{Goods \& Services Trade Balance with ROW} = \\ \text{ROW Goods \& Services Expenditure in Scotland}^{\text{External}}_{\text{IncExp}} \\ -\text{ROW Goods \& Services Income from Scotland}^{\text{External}}_{\text{IncExp}} \\ 181 = 19178 - 18997\end{gathered} \tag{2.5.72}$$

69. **RUK**

Taking the âĂIJUK expenditure in ScotlandâĂİ from the External Accounts, the âĂIJ-Tourist expenditure in ScotlandâĂİ is added to it. This is then multiplied by the share attributed to UK versus ROW tourist and subsequently subtracted by âĂIJUK income from ScotlandâĂİ (59,65,52). [Source: ONS (2010a)]

$$\begin{aligned} &\text{Total Balance of Payments RUK} = \\ &\text{RUK Expenditure in Scotland}^{\text{External}}_{\text{IncExp}} \\ &+(\text{RUK Share of Tourist Expenditure in Scotland} \\ &*\text{Tourist Expenditure in Scotland}^{\text{External}}_{\text{IncExp}}) \\ &-\text{RUK Income from Scotland}^{\text{External}}_{\text{IncExp}} \end{aligned} \tag{2.5.73}$$

$$5215 = 70595 + (0.6 * 2921) - 67133$$

70. **ROW**

Taking the âĂIJROW expenditure in ScotlandâĂİ from the External Accounts, the âĂIJTourist expenditure in ScotlandâĂİ is added to it. This is then multiplied by the share attributed to ROW versus UK tourist and subsequently subtracted by âĂIJROW income from ScotlandâĂİ (62,65,55). [Source: ONS (2010a)]

$$\begin{aligned} &\text{Total Balance of Payments ROW} = \\ &\text{ROW Expenditure in Scotland}^{\text{External}}_{\text{IncExp}} \\ &+(\text{ROW Share of Tourist Expenditure in Scotland} \\ &*\text{Tourist Expenditure in Scotland}^{\text{External}}_{\text{IncExp}}) \\ &-\text{ROW Income from Scotland}^{\text{External}}_{\text{IncExp}} \end{aligned} \tag{2.5.74}$$

$$4871 = 27378 + (0.4 * 2921) - 23676$$

71. **Total BOP**

Totals Figure: This is the sum of the two cells above (70 & 71).

$$\begin{aligned} &\text{Total Balance of Payments} = \\ &\text{RUK Total Balance of Payments} + \text{ROW Total Balance of Payments} \end{aligned} \tag{2.5.75}$$

$$10086 = 5215 + 4871$$

External Balance

72. **RUK Total Flows Balance**

This is the balance of âĂIJUK income from ScotlandâĂİ minus âĂIJUK expenditure in ScotlandâĂİ (52 - 59).

$$\text{RUK Total Flows Balance} = \text{RUK Income from Scotland} - \text{RUK Expenditure in Scotland} \tag{2.5.76}$$

$$-3462 = 67133 - 70595$$

73. **ROW Total Flows Balance**

This is the balance of âĂIJROW income from ScotlandâĂİ minus âĂIJROW expenditure in ScotlandâĂİ (55 - 62).

$$\text{ROW Total Flows Balance} = \text{ROW Income from Scotland} - \text{ROW Expenditure in Scotland} \tag{2.5.77}$$

$$-3703 = 23676 - 27378$$

74. **Tourist Balance**

Corresponding figure: âĂIJTourist expenditure in ScotlandâĂİ in the External Accounts (65).

$$\text{Tourist Balance} = -\text{Tourist Expenditure in Scotland}^{\text{External}}_{\text{IncExp}} \tag{2.5.78}$$

$$-2921 = -2921$$

75. **RUK/ROW Surplus/(Deficit), Lending/(Borrowing) with Scotland**

Totals Figure: This is the sum of the three cells above (73 to 75).

$$
\begin{aligned}
&\text{RUK/ROW Total External Balance} = \\
&\text{RUK Total Flows Balance}^{\text{External Balance}}_{\text{IncExp}} \\
&+\text{ROW Total Flows Balance}^{\text{External Balance}}_{\text{IncExp}} \\
&+\text{Tourist Balance}^{\text{External Balance}}_{\text{IncExp}} \\
&-10086 = (-3462) + (-3703) + (-2921)
\end{aligned}
\tag{2.5.79}
$$

Shares

$$\text{OVA Repatriated to RUK} = \text{OVA Repatriated} * \%\text{age of UK-owned firms} \tag{2.5.80}$$

$$3768 = 29456 * 13\%$$

$$\text{OVA Repatriated to ROW} = \text{OVA Repatriated} * \%\text{age of ROW-owned firms} \tag{2.5.81}$$

$$4560 = 29456 * 15\%$$

$$\text{Scottish Share of Total UK OVA} = \text{Scottish OVA} \div \text{UK OVA} \tag{2.5.82}$$

$$8.31\% = 38441/462590$$

$$\text{Scottish Share of Total Household OVA} = \text{Scottish Household OVA} \div (\text{Scottish Household OVA} + \text{Scottish Corporate OVA}) \tag{2.5.83}$$

$$15\% = 5289/(5289 + 29456)$$

$$\text{Scottish Share of Total Corporate OVA} = \text{Scottish Corporate OVA} \div (\text{Scottish Household OVA} + \text{Scottish Corporate OVA}) \tag{2.5.84}$$

$$85\% = 29456/(5289 + 29456)$$

2.6 Appendix A

QLFS Observation per Industry compared to FTE employment (2009)

	QLFS Observations		FTE Employment		Observations in %	
	Male	Female	Male	Female	Male	Female
1. Agriculture	419	105	33,959	7,307	1.23	1.43
2. Forestry planting	55	3	1,448	414	3.76	0.60
3. Forestry harvesting	23	6	2,059	990	1.12	0.61
4. Fishing	47	1	2,375	456	1.98	0.22
5. Aquaculture	30	6	2,115	345	1.42	1.74
6. Coal & lignite	19	2	1,353	29	1.40	6.93
7. Oil & gas extraction, metal ores	116	12	-	-	-	-
8. Other mining	33	3	2,636	229	1.23	1.31
9. Mining Support	366	86	18,018	2,499	2.03	3.42
10. Meat processing	61	25	4,202	1,773	1.44	1.38
11. Fish & fruit processing	79	37	5,427	3,085	1.46	1.20
12. Dairy products, oils & fats processing	21	12	2,445	625	0.86	1.84
13. Grain milling & starch	6	3	207	69	2.90	3.62
14. Bakery & farinaceous	47	50	6,982	4,607	0.67	1.07
15. Other food	31	22	2,206	1,440	1.38	1.53
16. Animal feeds	15	35	576	240	2.60	14.38
17. Spirits & wines	73	28	6,581	2,958	1.11	0.93
18. Beer & malt	23	8	557	227	4.13	3.30
19. Soft Drinks	14	35	1,506	367	0.93	9.53
20. Tobacco	-	-	-	-	-	-
21. Textiles	27	17	4,300	2,464	0.62	0.67
22. Wearing apparel	10	21	1,543	2,638	0.65	0.80
23. Leather goods	7	4	418	174	1.56	2.31
24. Wood and wood products	77	9	6,960	824	1.10	1.03
25. Paper & paper products	41	23	4,189	1,252	0.98	1.84
26. Printing and recording	79	19	4,099	1,636	1.92	1.16
27. Coke, petroleum & petrochemicals	69	5	2,275	400	3.03	1.25
28. Paints, varnishes and inks etc	8	7	298	78	2.69	9.02
29. Cleaning & toilet preparations	7	6	442	349	1.47	1.72
30. Other chemicals	6	3	1,358	876	0.44	0.34
31. Inorganic chemicals, dyestuffs & agrochemicals	4	3	1,041	204	0.34	1.22
32. Pharmaceuticals	49	31	1,402	928	3.50	3.29
33. Rubber & Plastic	123	20	6,880	1,362	1.79	1.43
34. Cement lime & plaster	22	3	2,111	255	1.02	1.18
35. Glass, clay & stone etc	15	8	3,016	367	0.50	2.18
36. Iron & Steel	54	13	952	89	5.67	14.12
37. Other metals & casting	8	2	855	92	0.94	2.16
38. Fabricated metal	205	28	23,823	3,142	0.86	0.89
39. Computers, electronics & opticals	143	52	8,791	3,286	1.63	1.57
40. Electrical equipment	29	234	3,654	1,189	0.79	19.68
41. Machinery & equipment	212	43	13,335	2,435	1.59	1.75
42. Motor Vehicles	88	6	2,225	226	3.96	2.66
43. Other transport equipment	199	15	10,126	968	1.97	1.55
44. Furniture	16	6	2,250	367	0.71	1.50
45. Other manufacturing	32	41	4,013	2,687	0.80	1.53
46. Repair & maintenance	282	29	9,735	1,499	2.89	1.93
47. Electricity	118	79	8,618	3,488	1.37	2.26
48. Gas etc	65	21	5,135	596	1.27	3.44
49. Water and sewerage	73	25	4,291	919	1.69	2.66
50. Waste	117	14	8,607	1,245	1.36	1.08
51. Remediation & waste management	41	8	93	36	43.98	22.32
52. Construction - buildings	958	148	43,029	7,737	2.23	1.91
53. Construction - civil engineering	412	67	25,954	2,449	1.59	2.72
54. Construction - specialised	1,073	71	81,351	10,009	1.32	0.70
55. Wholesale & Retail - vehicles	505	86	36,563	6,980	1.38	1.22
56. Wholesale - excl vehicles	545	227	54,353	20,233	1.00	1.12
57. Retail - excl vehicles	963	1,455	76,822	112,984	1.25	1.29

Continued on next page

Table 2.6.1 – continued from previous page

	QLFS Observations		FTE Employment		Observations in %	
	Male	Female	Male	Female	Male	Female
58. Rail transport	60	4	5,247	1,170	1.13	0.34
59. Other land transport	650	101	39,498	5,727	1.65	1.75
60. Water transport	91	23	1,837	732	4.95	3.07
61. Air transport	45	7	2,358	1,626	1.91	0.43
62. Support services for transport	196	70	22,373	6,002	0.88	1.17
63. Post & courier	240	59	14,035	3,773	1.71	1.56
64. Accommodation	209	276	22,143	25,102	0.94	1.10
65. Food & beverage services	463	537	39,508	51,835	1.17	1.04
66. Publishing services	98	37	4,666	3,877	2.09	0.94
67. Film video & TV etc	27	24	2,031	2,386	1.30	0.98
68. Broadcasting	21	28	548	419	3.84	6.68
69. Telecommunications	133	55	15,399	6,313	0.86	0.87
70. Computer services	263	64	20,672	7,860	1.27	0.81
71. Information services	12	11	1,461	772	0.79	1.42
72. Financial services	242	353	18,930	26,124	1.28	1.35
73. Insurance & pensions	124	167	9,200	9,375	1.35	1.78
74. Auxiliary financial services	187	157	10,704	11,954	1.75	1.31
75. Real estate - own	65	86	7,077	9,098	0.91	0.94
76. Imputed rent	-	-	-	-	-	-
77. Real estate - fee or contract	19	57	4,771	5,046	0.39	1.12
78. Legal activities	95	120	5,608	14,710	1.69	0.82
79. Accounting & tax services	88	101	13,400	21,140	0.65	0.48
80. Head office & consulting services	92	73	9,777	8,298	0.94	0.88
81. Architectural services etc	555	168	41,951	14,439	1.32	1.16
82. Research & development	75	87	4,521	3,509	1.66	2.46
83. Advertising & market research	34	15	3,275	2,452	1.02	0.61
84. Other professional services	108	57	5,580	3,822	1.93	1.49
85. Veterinary services	13	35	390	3,032	3.21	1.14
86. Rental and leasing services	98	44	12,044	3,403	0.81	1.29
87. Employment services	83	99	25,726	16,892	0.32	0.58
88. Travel & related services	36	59	2,099	5,085	1.69	1.15
89. Security & investigation	187	24	10,111	1,554	1.85	1.54
90. Building & landscape services	281	182	30,450	27,219	0.92	0.67
91. Business support services	95	148	11,606	11,157	0.81	1.32
92. Public administration & defence	1,111	1,022	69,710	72,334	1.59	1.41
93. Education	804	2,057	52,278	108,300	1.54	1.90
94. Health	572	1,817	38,305	141,342	1.49	1.29
95. Residential care	236	628	11,759	43,057	2.00	1.46
96. Social work	241	997	14,785	58,784	1.63	1.70
97. Creative services	81	75	2,737	2,246	2.96	3.32
98. Cultural services	43	86	4,680	6,699	0.92	1.28
99. Gambling	37	44	2,506	4,528	1.46	0.96
100. Sports & recreation	253	147	17,875	12,648	1.42	1.16
101. Membership organisations	124	111	7,807	11,491	1.59	0.97
102. Repairs - personal and household	103	21	2,119	993	4.86	2.11
103. Other personal services	76	308	8,713	14,025	0.87	2.19
104. Households as employers	6	15	476	1,149	1.26	1.26
Total	16,813	13,958	1,212,308	1,017,623	1.39	1.37

Note:

Total FTE QLFS sample comprises of 30,0771 observations. 16,813 thereof are male and 13,958 are female. Total Scottish FTE employment is 2,229,931 of which 1,212,308 are male and 1,017,623 are female. The QLFS sample covers 1.37 percent of total FTE employment, 1.39 percent of total male FTE employment and 1.37 percent of total female FTE employment. Summary statistics of the QLS sample are summarised in the following table:

Summary statistics of QLFS sample

Table 2.6.2: *

	Mean	Median	Minimum	Maximum
Male	161.659	76.0000	0.0000	1111.00
Female	134.212	34.5000	0.0000	2056.50
	Std. Dev.	C.V.	Skewness	Ex. kurtosis
Male	232.807	1.4401	2.4613	5.8950
Female	330.637	2.4636	4.2134	18.3198
	5% Perc.	95% Perc.	IQ range	Missing obs.
Male	6.0000	765.5000	171.1250	0.0000
Female	2.1250	904.3750	75.1250	0.0000